Civil Engineering and Development Department

Trunk Road T2
(under EP-458/2013/C)

Monthly Environmental Monitoring and Audit Report for September 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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RAMBOLL

Ref.: CEDKTDT2EM00_0_0113L.20

16 October 2020

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

By Post and E-mail

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

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

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for September 2020 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 16 October 2020.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 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 5th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of September 2020.

Summary of Main Works Undertaken and Key Measures Implemented

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

- East Portal – Blast Door Installation
- East Portal – Horizontal Ground Investigation
- West Bound – Drill & Break Tunnel
- East Bound – Drill & Blast Tunnel

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**.

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

Environmental 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

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
	Number	Nature		
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 (October 2020)	Key Environmental Issues
1. West Bound – Drill & Break Tunnel 2. East Bound – Dill & Blast Tunnel	(A) / (B) / (C) / (D)

Note:
(A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
(B) Noisy construction activity such as rock-breaking activities and piling works;
(C) Runoff from exposed slope or site area; and
(D) Wastewater and runoff discharge from site.

1 INTRODUCTION

Background

1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) – Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O – Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.

1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).

1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.0km long with about 2.7km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. The EM&A programme under this Contract is governed by the two EPs (EP-451/2013 and EP-458/2013/C) and two EM&A Manuals (AEIAR-174/2013 and AEIAR-173/2013). The work areas of the T2 Main Works are shown in **Figure 1** and the works to be executed under this Contract and corresponding EPs are summarized as follows:

Environmental Permit	**Works Description**
EP-451/2013 – Trunk Road T2	*Trunk Road T2* • 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 – Lam Tin Tunnel (TKOLTT) and Associated Works	*Cha Kwo Ling Tunnel* Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 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 5th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in September 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**.

Table 1.1 Key Project 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

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 – Blast Door Installation
- East Portal – Horizontal Ground Investigation
- West Bound – Drill & Break Tunnel
- East Bound – Drill & Blast Tunnel

Summary of EM&A Requirements

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

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;

- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in September 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

Permit / License No.	Valid Period		Status
	From	To	
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 (Construction Dust) Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid
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-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. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

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)

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 re-calibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.

2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

Table 2.3 Air Quality Monitoring Equipment

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

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 m^3/min. and 1.7 m^3/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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

2.12 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:

Table 2.4 Major Dust Source during Air Quality Monitoring

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

2.18 As no power supply due to technical problems in the system of Tin Hau Temple, the 24-hour TSP monitoring for monitoring station AM1 cannot be carried out. As such, it has been temporary suspended since 12 September 2020.

Comparison of EM&A Result with EIA Prediction

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

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

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 (September 2020), µg/m^3
AM1 – Tin Hau Temple	CL1	707	84.6
AM2 – Sai Tso Wan Recreation Ground	CL6	266	87.0
AM3 – Yau Lai Estate Bik Lai House	CL9	507	113.4
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	84.6

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR-173/2013), µg/m^3	Maximum 24-hr TSP Concentration in the Reporting Month (September 2020), µg/m^3
AM1 – Tin Hau Temple	CL1	199	92.6
AM2 – Sai Tso Wan Recreation Ground	CL6	109	40.5
AM3 – Yau Lai Estate Bik Lai House	CL9	123	60.3
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office (*)	N/A(1)	N/A(1)	42.6

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)

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

2.21 In the reporting month, the 24-hour TSP concentrations at AM1, 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.

Table 3.1 Noise Monitoring 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)

Monitoring Parameters, Frequency and Duration

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

Table 3.2 Frequency and Parameters of Noise Monitoring

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

Monitoring Equipment

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

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN 957 (Serial No.: 23851, 23852)	2
	BSWA 308 (Serial No.: 570187)	1
Calibrator	SV30A (Serial No.: 10965)	1
	ST-120 (Serial No.: 181001608, 181001636)	2

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}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

3.6 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	75
CM2	63.6	
CM3	65.6	
CM4	62.0	
CM5	68.2	70*

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

Comparison of EM&A Result with EIA Prediction

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

(AEIAR-173/2013) as summarised in **Table 3.6**.

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR-173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (September 2020), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	73.0
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	74.2
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	72.8
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	68.2
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	70.1

3.15 The results at CM1 was equal to 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. 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 10.1 Landfill Gas Monitoring Equipment

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

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 52 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 03, 10, 17, 24 and 30 September 2020 in the reporting month. Site inspection of the IEC was conducted on 17 September 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.

Table 12.1 Observations and Recommendations of Site Audit

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

Implementation Status of Event and Action Plans

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:

- West Bound – Drill & Break Tunnel
- East Bound – Drill & Blast Tunnel

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 5th 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 5 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.

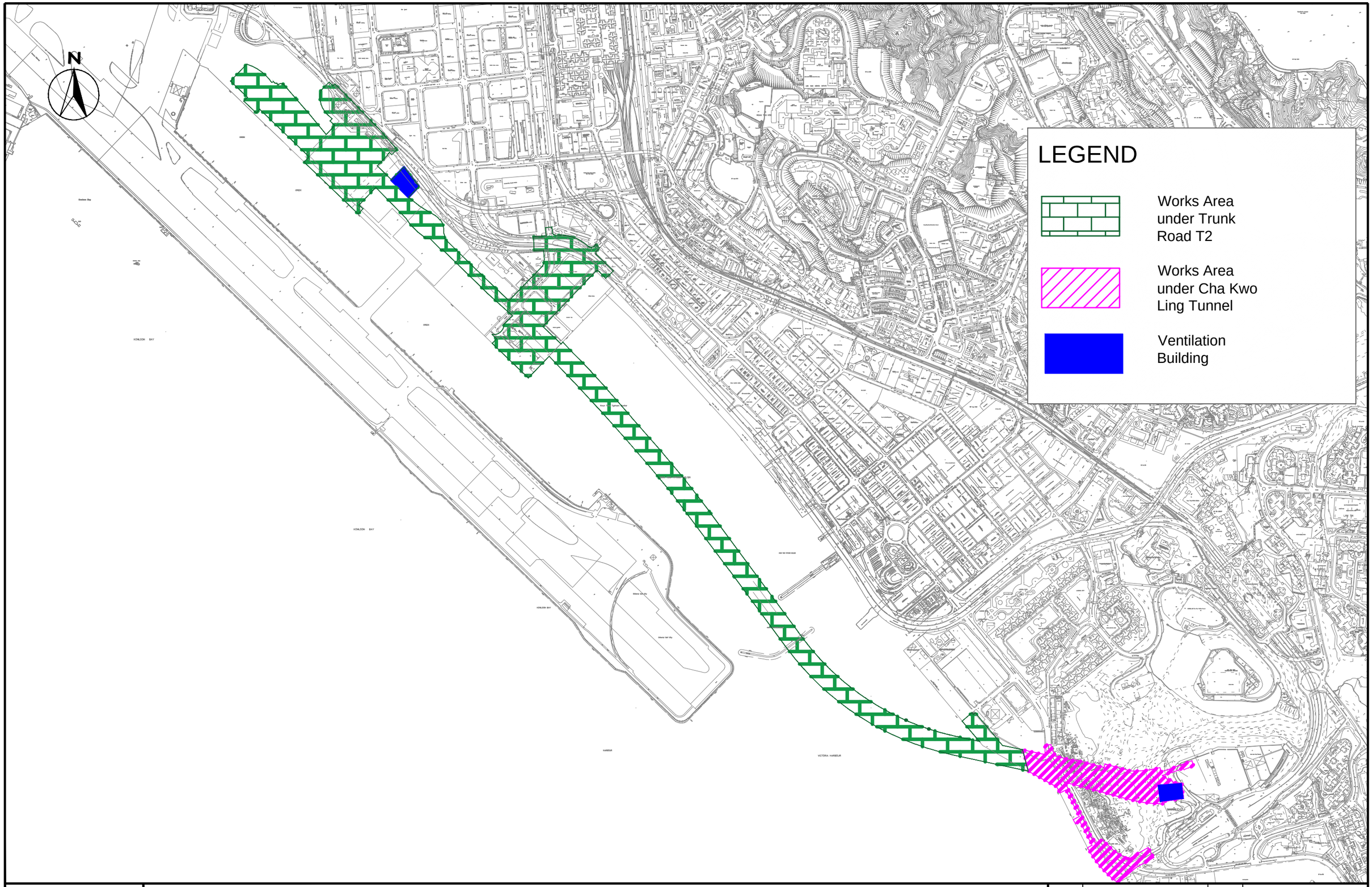
Recommendations

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.*

FIGURES



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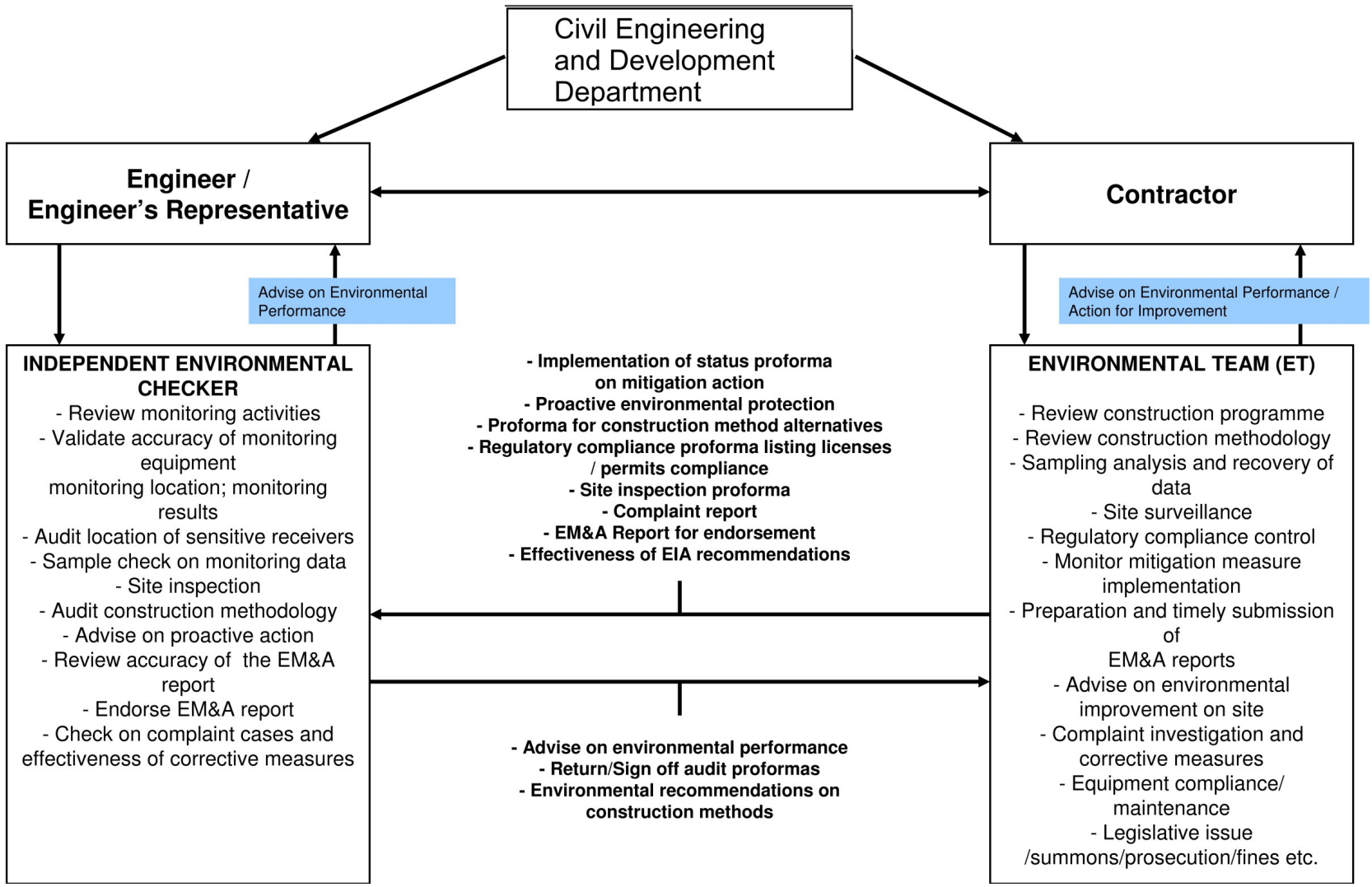
Contract No. ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

Site Layout Plan

SCALE	1:10000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No. Fig 1	REV -



Rev.	Description	Date

Drawing title

PROJECT ORGANISATION AND LINES OF COMMUNICATION

Original Size A3

Scale N.T.S

Date 18/JAN/2013

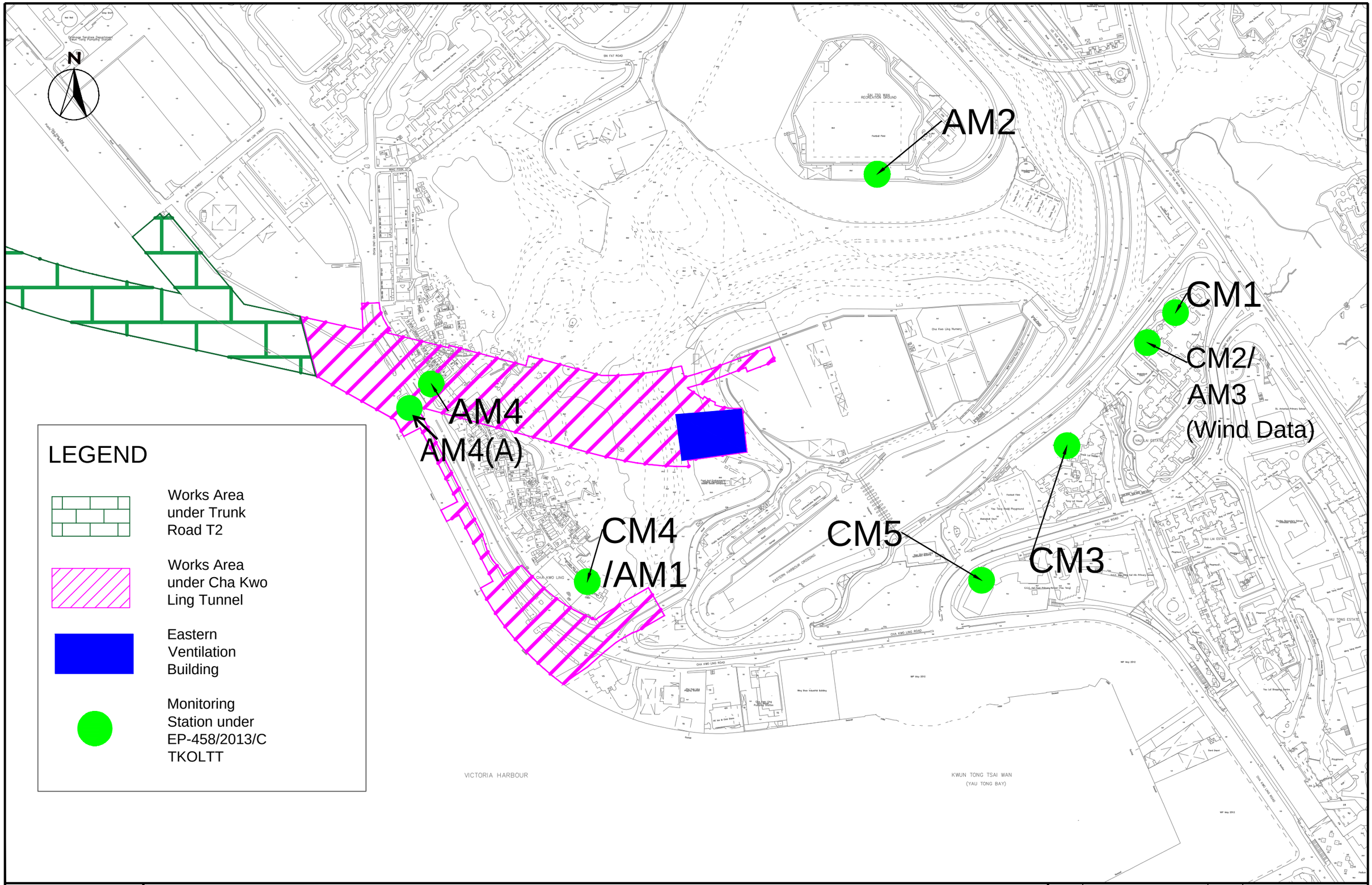
File name

Drawing No. FIGURE 1.2

Rev. –

PLOT DRV: K:\91164 Trunk Road T2\Cad Admin\A3_colour.plt
PRINTED BY: kitchan 1/17/2013 11:33:36 AM

CAD FILE : K:\91164 Trunk Road T2\Report\Draft EIA Report\Figure 6.1.dgn



CINOTECH
Cinotech Consultants Limited

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

Monitoring Station at Lam Tin

SCALE	1:4000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

APPENDIX A
ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, µg/m³	Limit Level, µg/m³
AM1	Tin Hau Temple	275	500
AM2	Sai Tso Wan Recreation Ground	273	
AM3	Yau Lai Estate Bik Lai House	271	
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

24-hr TSP

Monitoring Stations	Location	Action Level, µg/m³	Limit Level, µg/m³
AM1	Tin Hau Temple	173	260
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	
AM4(A)	Cha Kwo Ling Public Cargo Working Area Administrative Office	210	

Noise

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

[1] 70 dB(A) for schools and 65 dB(A) for schools during examination period.
[2] Acceptable Noise Levels for Area Sensitivity Rating of A/B/C
3 If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Landfill Gas Monitoring

Parameter	Limit Level
Oxygen	<19%
	<18%
Methane	>10% LEL (i.e. > 0.5% by volume)
	>20% LEL (i.e. > 1% by volume)
Carbon Dioxide	>0.5%
	>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-Oct-20
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 5-Dec-20
Model No.: LD-5R
Serial No.: 972777
Equipment No.: SA-01-06
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-03
Before Sensitivity Adjustment 645
Tisch Calibration Orifice No.: 3607
After Sensitivity Adjustment 645

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	43.0	78.9
2	36.0	75.2
3	29.0	70.8
Average	**36.0**	**75.0**

By Linear Regression of Y on X

Slope , mw = **0.5786** **Intercept, bw =** **54.1381**

Correlation coefficient* = **0.9988**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	75.0
Particaulate Concentration by Dust Meter (µg/m^3)	36.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **2.1**

In-house method in according to the instruction manual:
The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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

Calibrated by: Wong Shing Kwai

Approved by: 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-Oct-20
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 5-Dec-20
Model No.: LD-5R
Serial No.: 972778
Equipment No.: SA-01-07
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-01A
Before Sensitivity Adjustment 735 CPM
Tisch Calibration Orifice No.: 3607
After Sensitivity Adjustment 735 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	45.0	78.9
2	34.0	75.2
3	23.0	70.8
Average	**34.0**	**75.0**

By Linear Regression of Y on X

Slope , mw = **0.3682** **Intercept, bw =** **62.4485**

Correlation coefficient* = **0.9988**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	75.0
Particaulate Concentration by Dust Meter (µg/m^3)	34.0
Measureing time, (min)	60.0
Set Correlation Factor , SCF **SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]**	**2.2**

In-house method in according to the instruction manual:
The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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

Calibrated by: Wong Shing Kwai

Approved by: 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-Oct-20
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 5-Dec-20
Model No.: LD-5R
Serial No.: 972779
Equipment No.: SA-01-08
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-01A
Before Sensitivity Adjustment 744 CPM
Tisch Calibration Orifice No.: 3607
After Sensitivity Adjustment 744 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	49.0	78.9
2	38.0	75.2
3	28.0	70.8
Average	**38.3**	**75.0**

By Linear Regression of Y on X

Slope , mw = **0.3849** **Intercept, bw =** **60.2124**

Correlation coefficient* = **0.9970**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	75.0
Particaulate Concentration by Dust Meter (µg/m^3)	38.3
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/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: Henry Leung

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/05/0025

Project No. AM1 - Tin Hau Temple

Date: 10-Aug-20 Next Due Date: 10-Oct-20 Operator: SK

Equipment No.: A-01-05 Model No.: GS2310 Serial No. 10599

Ambient Condition			
Temperature, Ta (K)	304	Pressure, Pa (mmHg)	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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	17-Jan-21	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH 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

By Linear Regression of Y on X

Slope , mw = 0.0472 **Intercept, bw = 0.0206**

Correlation coefficient* = 0.9993

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.29**

Remarks:

Conducted by: SK Wong Signature: Date: 10 August 2020

Checked by: Henry Leung Signature: Date: 10 August 2020

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/08/0025

Project No. AM2 - Sai Tso Wan Recreation Ground

Date: 10-Aug-20 Next Due Date: 10-Oct-20 Operator: SK

Equipment No.: A-01-08 Model No.: GS2310 Serial No. 1287

Ambient Condition			
Temperature, Ta (K)	304	Pressure, Pa (mmHg)	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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	17-Jan-21	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH 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	9.8	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

By Linear Regression of Y on X

Slope , mw = **0.0471** **Intercept, bw =** **-0.0112**

Correlation coefficient* = **0.9977**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.13**

Remarks:

Conducted by: SK Wong Signature: Date: 10 August 2020

Checked by: Henry Leung Signature: Date: 10 August 2020

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/03/0025

Project No. AM3 - Yau Lai Estate, Bik Lai House

Date: 10-Aug-20 Next Due Date: 10-Oct-20 Operator: SK

Equipment No.: A-01-03 Model No.: GS2310 Serial No. 10379

Ambient Condition			
Temperature, Ta (K)	304	Pressure, Pa (mmHg)	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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	17-Jan-21	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.0	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 Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.42**

Remarks:

Conducted by: SK Wong Signature: Date: 10 August 2020

Checked by: Henry Leung Signature: Date: 10 August 2020

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/54/0025

Project No. AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office

Date: 10-Aug-20 Next Due Date: 10-Oct-20 Operator: SK

Equipment No.: A-01-54 Model No.: TE-5170 Serial No. 1536

Ambient Condition			
Temperature, Ta (K)	304	Pressure, Pa (mmHg)	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 = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	17-Jan-21	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH 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	12.8	3.54	60.30	8.6	2.90
2	9.8	3.10	52.82	6.3	2.49
3	7.4	2.69	45.96	5.0	2.21
4	5.2	2.26	38.60	3.2	1.77
5	2.9	1.69	28.94	1.8	1.33

By Linear Regression of Y on X

Slope , mw = **0.0502** **Intercept, bw =** **-0.1354**

Correlation coefficient* = **0.9987**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.18**

Remarks:

Conducted by: SK Wong Signature: Date: 10 August 2020

Checked by: Henry Leung Signature: Date: 10 August 2020

Calibration Certificate

0022999

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

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
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

Calibration Technician

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Equipment no.: N-12-02

Calibration Certificate

0022522

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570187 / 550841 Object 2 : Serial No. /Ref. No. : Manufacturer : BSWAtech
Date of calibration: 23/09/2019 Date of the recommended re-calibration: 23/09/2020	Certificate No.: 0022522 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
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.
5.The calibrations certificate may not be reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician

Approved by

Quality Manager

Calibration Certificate

0023000

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : SVAN957 SLM Serial No. /Ref. No. : 23852 / N-08-11 Object 2 : Microphone Serial No. /Ref. No. : 35989 Manufacturer : Svantek
Date of calibration: 19/12/2019 Date of the recommended re-calibration: 19/12/2020	Certificate No.: 0023000 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0dB	113.4dB	-0.6dB	+/- 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

Calibration Technician

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Calibration Certificate

0023002

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

Measuring results

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

Calibration Technician

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Calibration Certificate

0022673

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001608 Object 2 : Serial No. /Ref. No. : Manufacturer : Soundtek
Date of calibration: 24/10/2019 Date of the recommended re-calibration: 24/10/2020	Certificate No.: 0022673 Handle by: E0002

Measuring results

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

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Calibration Certificate

0022676

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

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.7dB	-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 reproduced.

Measured value(s) within **the allowable deviation.**

Performed by

Calibration Technician

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Cerificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	Davis7440
Serial No.:	MC01010A44
Equipment No.:	SA-03-04
Date of Calibration	21-Aug-2020
Next Due Date	21-Feb-2021

1. Performance check of Wind Speed

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

2. Performance check of Wind Direction

Wind Direction (^{o})		Difference D (^{o})
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - 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: _____ Wong Shing Kwai

Approved by: _____ Henry Leung

TISCH Environmental

RECALIBRATION DUE DATE:
January 17, 2021

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 17, 2020	**Rootsmeter S/N:** 438320	**Ta:** 295	°K
Operator:	Jim Tisch		**Pa:** 744.2	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3746**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (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

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
0.9849	0.6868	1.4066	0.9957	0.6944	0.8904
0.9807	0.9633	1.9892	0.9914	0.9739	1.2592
0.9787	1.0779	2.2240	0.9894	1.0896	1.4078
0.9776	1.1237	2.3325	0.9883	1.1360	1.4765
0.9724	1.3601	2.8131	0.9831	1.3749	1.7808
QSTD	**m=**	**2.09221**	**QA**	**m=**	**1.31010**
	b=	**-0.02779**		**b=**	**-0.01759**
	r=	**0.99994**		**r=**	**0.99994**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

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

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

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

Ref. 2020/05/008 Date: 22-May-20
Customer Leighton China State Joint Venture

CERTIFICATE FOR CALIBRATION CHECK TEST

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

MSA HONG KONG LIMITED

Authorised Signature

APPENDIX C
WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C)[1]	Mean Relative Humidity (%)[2]	Precipitation (mm)[3]
1-Sep-20	30.3	76	1.1
2-Sep-20	30.0	77	0.4
3-Sep-20	30.2	78	0.4
4-Sep-20	29.8	82	0.1
5-Sep-20	28.4	83	43.9
6-Sep-20	29.1	80	0.0
7-Sep-20	29.4	82	4.7
8-Sep-20	27.1	91	68.9
9-Sep-20	27.9	86	0.2
10-Sep-20	28.5	83	8.2
11-Sep-20	28.9	81	2.7
12-Sep-20	28.2	85	27.9
13-Sep-20	28.4	83	5.7
14-Sep-20	28.1	85	38.2
15-Sep-20	27.3	92	62.6
16-Sep-20	29.5	85	4.4
17-Sep-20	28.7	87	40.6
18-Sep-20	28.3	88	15.9
19-Sep-20	27.2	92	50.8
20-Sep-20	28.6	83	0.7
21-Sep-20	27.4	91	176.8
22-Sep-20	28.6	82	0.5
23-Sep-20	29.1	77	0.0
24-Sep-20	28.5	80	0.6
25-Sep-20	28.3	76	0.0
26-Sep-20	28.0	76	Trace
27-Sep-20	27.7	81	1.3
28-Sep-20	26.6	87	26.2
29-Sep-20	26.9	89	21.9
30-Sep-20	27.4	88	104.1

(Reporting Month: September 2020)

Remarks:

Source - Hong Kong Observatory

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

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
1 Sep 2020	12:00 AM	1.8	WSW
1 Sep 2020	1:00 AM	1.8	WSW
1 Sep 2020	2:00 AM	1.8	SW
1 Sep 2020	3:00 AM	0.9	WNW
1 Sep 2020	4:00 AM	0.9	W
1 Sep 2020	5:00 AM	1.3	W
1 Sep 2020	6:00 AM	1.3	W
1 Sep 2020	7:00 AM	1.3	SW
1 Sep 2020	8:00 AM	1.3	WNW
1 Sep 2020	9:00 AM	1.8	WNW
1 Sep 2020	10:00 AM	0.9	WNW
1 Sep 2020	11:00 AM	1.3	WNW
1 Sep 2020	12:00 PM	0.9	WNW
1 Sep 2020	1:00 PM	1.8	WNW
1 Sep 2020	2:00 PM	3.6	NW
1 Sep 2020	3:00 PM	3.1	WNW
1 Sep 2020	4:00 PM	3.1	WNW
1 Sep 2020	5:00 PM	3.6	WNW
1 Sep 2020	6:00 PM	1.3	WNW
1 Sep 2020	7:00 PM	1.3	WNW
1 Sep 2020	8:00 PM	1.3	WNW
1 Sep 2020	9:00 PM	0.9	WSW
1 Sep 2020	10:00 PM	0.9	W
1 Sep 2020	11:00 PM	0.9	WNW
2 Sep 2020	12:00 AM	0.9	W
2 Sep 2020	1:00 AM	1.3	SSW
2 Sep 2020	2:00 AM	0.9	WSW
2 Sep 2020	3:00 AM	0.9	S
2 Sep 2020	4:00 AM	0.4	WSW
2 Sep 2020	5:00 AM	0.9	WNW
2 Sep 2020	6:00 AM	1.8	SSW
2 Sep 2020	7:00 AM	0.9	SW
2 Sep 2020	8:00 AM	1.8	SW
2 Sep 2020	9:00 AM	1.3	WSW
2 Sep 2020	10:00 AM	0.4	WSW
2 Sep 2020	11:00 AM	0.4	WNW
2 Sep 2020	12:00 PM	0.9	WNW
2 Sep 2020	1:00 PM	0.9	S
2 Sep 2020	2:00 PM	1.8	ESE
2 Sep 2020	3:00 PM	0.9	SE
2 Sep 2020	4:00 PM	0.9	SE
2 Sep 2020	5:00 PM	1.8	SSW
2 Sep 2020	6:00 PM	1.8	SSW
2 Sep 2020	7:00 PM	1.3	SSE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
2 Sep 2020	8:00 PM	1.3	SSE
2 Sep 2020	9:00 PM	1.3	---
2 Sep 2020	10:00 PM	0.9	SSE
2 Sep 2020	11:00 PM	1.3	SSW
3 Sep 2020	12:00 AM	0.4	SSW
3 Sep 2020	1:00 AM	0	SSW
3 Sep 2020	2:00 AM	0	SSW
3 Sep 2020	3:00 AM	0.4	SSW
3 Sep 2020	4:00 AM	0.4	WNW
3 Sep 2020	5:00 AM	0.9	WNW
3 Sep 2020	6:00 AM	1.3	WNW
3 Sep 2020	7:00 AM	0.9	WNW
3 Sep 2020	8:00 AM	0.9	SW
3 Sep 2020	9:00 AM	0.9	WNW
3 Sep 2020	10:00 AM	0.4	SSW
3 Sep 2020	11:00 AM	0.9	SSW
3 Sep 2020	12:00 PM	1.3	SSW
3 Sep 2020	1:00 PM	1.8	WSW
3 Sep 2020	2:00 PM	1.8	WSW
3 Sep 2020	3:00 PM	0.9	W
3 Sep 2020	4:00 PM	1.3	SSW
3 Sep 2020	5:00 PM	1.3	SSW
3 Sep 2020	6:00 PM	0.9	SSW
3 Sep 2020	7:00 PM	2.7	SSW
3 Sep 2020	8:00 PM	1.3	SSW
3 Sep 2020	9:00 PM	0.9	SW
3 Sep 2020	10:00 PM	0.9	SW
3 Sep 2020	11:00 PM	0	SW
4 Sep 2020	12:00 AM	0.4	NW
4 Sep 2020	1:00 AM	0	NW
4 Sep 2020	2:00 AM	0.4	NW
4 Sep 2020	3:00 AM	0.4	NW
4 Sep 2020	4:00 AM	0.4	NW
4 Sep 2020	5:00 AM	0.4	NW
4 Sep 2020	6:00 AM	0	NW
4 Sep 2020	7:00 AM	0.4	NW
4 Sep 2020	8:00 AM	0.4	WNW
4 Sep 2020	9:00 AM	0.4	NW
4 Sep 2020	10:00 AM	0.4	NW
4 Sep 2020	11:00 AM	0.4	SSW
4 Sep 2020	12:00 PM	0.4	SW
4 Sep 2020	1:00 PM	0.4	SE
4 Sep 2020	2:00 PM	0.4	SE
4 Sep 2020	3:00 PM	0.4	SE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
4 Sep 2020	4:00 PM	1.3	SSE
4 Sep 2020	5:00 PM	1.3	SSW
4 Sep 2020	6:00 PM	2.2	SSW
4 Sep 2020	7:00 PM	1.3	SW
4 Sep 2020	8:00 PM	0.4	SW
4 Sep 2020	9:00 PM	0.9	WNW
4 Sep 2020	10:00 PM	0.4	WNW
4 Sep 2020	11:00 PM	0.4	W
5 Sep 2020	12:00 AM	0.4	W
5 Sep 2020	1:00 AM	0.4	W
5 Sep 2020	2:00 AM	0.4	W
5 Sep 2020	3:00 AM	0.4	W
5 Sep 2020	4:00 AM	0.4	W
5 Sep 2020	5:00 AM	0.4	WNW
5 Sep 2020	6:00 AM	0.9	WNW
5 Sep 2020	7:00 AM	0.4	WNW
5 Sep 2020	8:00 AM	0.9	WSW
5 Sep 2020	9:00 AM	0.4	WNW
5 Sep 2020	10:00 AM	0.9	WNW
5 Sep 2020	11:00 AM	1.3	WNW
5 Sep 2020	12:00 PM	1.3	NW
5 Sep 2020	1:00 PM	1.8	W
5 Sep 2020	2:00 PM	1.8	W
5 Sep 2020	3:00 PM	2.2	---
5 Sep 2020	4:00 PM	1.3	---
5 Sep 2020	5:00 PM	0.4	W
5 Sep 2020	6:00 PM	0.9	W
5 Sep 2020	7:00 PM	0.9	W
5 Sep 2020	8:00 PM	0.9	---
5 Sep 2020	9:00 PM	1.3	---
5 Sep 2020	10:00 PM	2.2	W
5 Sep 2020	11:00 PM	2.7	SW
6 Sep 2020	12:00 AM	1.3	SW
6 Sep 2020	1:00 AM	1.3	SSW
6 Sep 2020	2:00 AM	1.8	SSW
6 Sep 2020	3:00 AM	1.3	SSW
6 Sep 2020	4:00 AM	1.3	SW
6 Sep 2020	5:00 AM	0.9	SSW
6 Sep 2020	6:00 AM	0.9	SSW
6 Sep 2020	7:00 AM	0.4	SSW
6 Sep 2020	8:00 AM	0	SSW
6 Sep 2020	9:00 AM	0.4	SSW
6 Sep 2020	10:00 AM	0	SW
6 Sep 2020	11:00 AM	0	WNW

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
6 Sep 2020	12:00 PM	0	WNW
6 Sep 2020	1:00 PM	0	WNW
6 Sep 2020	2:00 PM	0.4	W
6 Sep 2020	3:00 PM	0.4	WSW
6 Sep 2020	4:00 PM	0.4	WSW
6 Sep 2020	5:00 PM	0.4	WSW
6 Sep 2020	6:00 PM	1.3	WNW
6 Sep 2020	7:00 PM	1.3	ENE
6 Sep 2020	8:00 PM	1.3	WNW
6 Sep 2020	9:00 PM	0.9	WNW
6 Sep 2020	10:00 PM	1.8	WNW
6 Sep 2020	11:00 PM	1.3	WNW
7 Sep 2020	12:00 AM	2.2	WNW
7 Sep 2020	1:00 AM	1.8	WNW
7 Sep 2020	2:00 AM	2.2	WNW
7 Sep 2020	3:00 AM	1.3	NNE
7 Sep 2020	4:00 AM	0.4	WNW
7 Sep 2020	5:00 AM	0.9	WNW
7 Sep 2020	6:00 AM	0.4	WNW
7 Sep 2020	7:00 AM	0.4	WNW
7 Sep 2020	8:00 AM	0.9	WNW
7 Sep 2020	9:00 AM	0.4	WNW
7 Sep 2020	10:00 AM	0.4	WNW
7 Sep 2020	11:00 AM	0.9	WNW
7 Sep 2020	12:00 PM	0	WNW
7 Sep 2020	1:00 PM	0.9	WNW
7 Sep 2020	2:00 PM	0.9	WNW
7 Sep 2020	3:00 PM	0.9	WNW
7 Sep 2020	4:00 PM	0.4	WNW
7 Sep 2020	5:00 PM	0.9	WNW
7 Sep 2020	6:00 PM	0.9	WNW
7 Sep 2020	7:00 PM	0	W
7 Sep 2020	8:00 PM	0.4	WNW
7 Sep 2020	9:00 PM	0	WNW
7 Sep 2020	10:00 PM	0.4	WNW
7 Sep 2020	11:00 PM	0.4	WNW
8 Sep 2020	12:00 AM	0.4	NW
8 Sep 2020	1:00 AM	0.4	ESE
8 Sep 2020	2:00 AM	0	ESE
8 Sep 2020	3:00 AM	0.4	NW
8 Sep 2020	4:00 AM	0.4	WNW
8 Sep 2020	5:00 AM	0.4	WNW
8 Sep 2020	6:00 AM	0.4	WNW
8 Sep 2020	7:00 AM	0.4	WNW

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
8 Sep 2020	8:00 AM	0.4	WNW
8 Sep 2020	9:00 AM	0.4	WNW
8 Sep 2020	10:00 AM	0.4	WNW
8 Sep 2020	11:00 AM	0.4	WNW
8 Sep 2020	12:00 PM	1.3	WNW
8 Sep 2020	1:00 PM	1.3	WSW
8 Sep 2020	2:00 PM	0.9	WSW
8 Sep 2020	3:00 PM	1.3	WNW
8 Sep 2020	4:00 PM	0.9	WNW
8 Sep 2020	5:00 PM	1.3	WNW
8 Sep 2020	6:00 PM	0.9	WSW
8 Sep 2020	7:00 PM	0.4	W
8 Sep 2020	8:00 PM	0.9	WNW
8 Sep 2020	9:00 PM	0.9	W
8 Sep 2020	10:00 PM	1.3	WNW
8 Sep 2020	11:00 PM	1.3	NNE
9 Sep 2020	12:00 AM	1.8	W
9 Sep 2020	1:00 AM	1.3	WNW
9 Sep 2020	2:00 AM	1.8	WNW
9 Sep 2020	3:00 AM	1.8	WNW
9 Sep 2020	4:00 AM	0.9	WNW
9 Sep 2020	5:00 AM	0.9	WNW
9 Sep 2020	6:00 AM	1.3	WNW
9 Sep 2020	7:00 AM	1.8	WNW
9 Sep 2020	8:00 AM	0.9	WNW
9 Sep 2020	9:00 AM	0.4	WNW
9 Sep 2020	10:00 AM	0.4	WNW
9 Sep 2020	11:00 AM	0.4	WSW
9 Sep 2020	12:00 PM	0.4	WSW
9 Sep 2020	1:00 PM	1.3	WSW
9 Sep 2020	2:00 PM	0.4	WSW
9 Sep 2020	3:00 PM	0.4	W
9 Sep 2020	4:00 PM	0.4	NE
9 Sep 2020	5:00 PM	0	ENE
9 Sep 2020	6:00 PM	0.4	NE
9 Sep 2020	7:00 PM	0.9	NE
9 Sep 2020	8:00 PM	0	WSW
9 Sep 2020	9:00 PM	0.4	W
9 Sep 2020	10:00 PM	0.9	WSW
9 Sep 2020	11:00 PM	1.8	WSW
10 Sep 2020	12:00 AM	1.3	WSW
10 Sep 2020	1:00 AM	2.2	WSW
10 Sep 2020	2:00 AM	2.7	WNW
10 Sep 2020	3:00 AM	2.7	WNW

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
10 Sep 2020	4:00 AM	1.3	WSW
10 Sep 2020	5:00 AM	1.8	WNW
10 Sep 2020	6:00 AM	1.3	WSW
10 Sep 2020	7:00 AM	0.9	WNW
10 Sep 2020	8:00 AM	0.4	WNW
10 Sep 2020	9:00 AM	0.4	WNW
10 Sep 2020	10:00 AM	0.9	WNW
10 Sep 2020	11:00 AM	0.9	WNW
10 Sep 2020	12:00 PM	0.4	ENE
10 Sep 2020	1:00 PM	0.4	WSW
10 Sep 2020	2:00 PM	0.4	WSW
10 Sep 2020	3:00 PM	0.9	SW
10 Sep 2020	4:00 PM	0.9	E
10 Sep 2020	5:00 PM	0.4	ENE
10 Sep 2020	6:00 PM	0.4	ENE
10 Sep 2020	7:00 PM	0.4	ENE
10 Sep 2020	8:00 PM	0.9	E
10 Sep 2020	9:00 PM	1.3	ENE
10 Sep 2020	10:00 PM	1.3	ENE
10 Sep 2020	11:00 PM	0	ENE
11 Sep 2020	12:00 AM	0	ENE
11 Sep 2020	1:00 AM	0.4	E
11 Sep 2020	2:00 AM	0.9	ESE
11 Sep 2020	3:00 AM	0.9	E
11 Sep 2020	4:00 AM	1.8	ENE
11 Sep 2020	5:00 AM	1.8	ESE
11 Sep 2020	6:00 AM	0.9	ENE
11 Sep 2020	7:00 AM	0.9	ESE
11 Sep 2020	8:00 AM	1.3	E
11 Sep 2020	9:00 AM	0.9	ENE
11 Sep 2020	10:00 AM	0.4	ESE
11 Sep 2020	11:00 AM	0.4	ENE
11 Sep 2020	12:00 PM	0.4	SE
11 Sep 2020	1:00 PM	0.9	ENE
11 Sep 2020	2:00 PM	0.9	ENE
11 Sep 2020	3:00 PM	0.9	ESE
11 Sep 2020	4:00 PM	0.9	E
11 Sep 2020	5:00 PM	1.3	ENE
11 Sep 2020	6:00 PM	1.3	ENE
11 Sep 2020	7:00 PM	1.3	ESE
11 Sep 2020	8:00 PM	1.3	SE
11 Sep 2020	9:00 PM	0.9	ENE
11 Sep 2020	10:00 PM	0.9	SW
11 Sep 2020	11:00 PM	0.9	ENE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
12 Sep 2020	12:00 AM	0.9	E
12 Sep 2020	1:00 AM	0.9	SW
12 Sep 2020	2:00 AM	0.9	ENE
12 Sep 2020	3:00 AM	0.9	ENE
12 Sep 2020	4:00 AM	1.3	SW
12 Sep 2020	5:00 AM	1.8	SW
12 Sep 2020	6:00 AM	1.3	SSW
12 Sep 2020	7:00 AM	1.8	SW
12 Sep 2020	8:00 AM	1.8	SW
12 Sep 2020	9:00 AM	2.2	SW
12 Sep 2020	10:00 AM	1.8	SW
12 Sep 2020	11:00 AM	2.2	SW
12 Sep 2020	12:00 PM	1.8	SSE
12 Sep 2020	1:00 PM	0.9	NE
12 Sep 2020	2:00 PM	0.4	NE
12 Sep 2020	3:00 PM	0	NE
12 Sep 2020	4:00 PM	0.4	NE
12 Sep 2020	5:00 PM	1.8	SE
12 Sep 2020	6:00 PM	1.3	ENE
12 Sep 2020	7:00 PM	0.9	ENE
12 Sep 2020	8:00 PM	0.4	ENE
12 Sep 2020	9:00 PM	0.4	ENE
12 Sep 2020	10:00 PM	0.4	ENE
12 Sep 2020	11:00 PM	0.9	ENE
13 Sep 2020	12:00 AM	0.9	ENE
13 Sep 2020	1:00 AM	1.3	ENE
13 Sep 2020	2:00 AM	0.4	ENE
13 Sep 2020	3:00 AM	0.9	ENE
13 Sep 2020	4:00 AM	1.8	ENE
13 Sep 2020	5:00 AM	0.4	ENE
13 Sep 2020	6:00 AM	0.9	ENE
13 Sep 2020	7:00 AM	0.9	ENE
13 Sep 2020	8:00 AM	3.6	ENE
13 Sep 2020	9:00 AM	3.1	ENE
13 Sep 2020	10:00 AM	3.1	ENE
13 Sep 2020	11:00 AM	1.8	ENE
13 Sep 2020	12:00 PM	1.3	ENE
13 Sep 2020	1:00 PM	0.4	ENE
13 Sep 2020	2:00 PM	0.9	E
13 Sep 2020	3:00 PM	0.9	ESE
13 Sep 2020	4:00 PM	0.9	ENE
13 Sep 2020	5:00 PM	0.9	ENE
13 Sep 2020	6:00 PM	0.4	E
13 Sep 2020	7:00 PM	0.4	SE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
13 Sep 2020	8:00 PM	0.4	N
13 Sep 2020	9:00 PM	0.4	NNW
13 Sep 2020	10:00 PM	0	NNW
13 Sep 2020	11:00 PM	0	NW
14 Sep 2020	12:00 AM	0	NNW
14 Sep 2020	1:00 AM	0.4	NNE
14 Sep 2020	2:00 AM	0.4	NNE
14 Sep 2020	3:00 AM	0.9	NNW
14 Sep 2020	4:00 AM	0.9	ENE
14 Sep 2020	5:00 AM	0.9	NNW
14 Sep 2020	6:00 AM	0.9	NNW
14 Sep 2020	7:00 AM	1.3	NNW
14 Sep 2020	8:00 AM	1.3	NNW
14 Sep 2020	9:00 AM	0.9	NNW
14 Sep 2020	10:00 AM	0	N
14 Sep 2020	11:00 AM	0.4	NNW
14 Sep 2020	12:00 PM	1.3	NNW
14 Sep 2020	1:00 PM	0.4	NE
14 Sep 2020	2:00 PM	0.4	NE
14 Sep 2020	3:00 PM	0.4	E
14 Sep 2020	4:00 PM	0	N
14 Sep 2020	5:00 PM	0.4	E
14 Sep 2020	6:00 PM	0.9	E
14 Sep 2020	7:00 PM	0	ESE
14 Sep 2020	8:00 PM	0.4	ESE
14 Sep 2020	9:00 PM	0.9	SE
14 Sep 2020	10:00 PM	1.8	NW
14 Sep 2020	11:00 PM	1.3	WNW
15 Sep 2020	12:00 AM	2.2	WNW
15 Sep 2020	1:00 AM	2.7	WNW
15 Sep 2020	2:00 AM	2.7	NNW
15 Sep 2020	3:00 AM	1.3	NNW
15 Sep 2020	4:00 AM	1.8	WNW
15 Sep 2020	5:00 AM	0	WNW
15 Sep 2020	6:00 AM	0.9	NNW
15 Sep 2020	7:00 AM	1.3	NNW
15 Sep 2020	8:00 AM	1.3	NNW
15 Sep 2020	9:00 AM	1.3	NNW
15 Sep 2020	10:00 AM	1.3	WNW
15 Sep 2020	11:00 AM	1.8	NW
15 Sep 2020	12:00 PM	0.9	NNW
15 Sep 2020	1:00 PM	1.3	NNW
15 Sep 2020	2:00 PM	0.9	S
15 Sep 2020	3:00 PM	0.9	S

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
15 Sep 2020	4:00 PM	0.4	S
15 Sep 2020	5:00 PM	0.9	S
15 Sep 2020	6:00 PM	0.4	S
15 Sep 2020	7:00 PM	0.4	S
15 Sep 2020	8:00 PM	0.4	WNW
15 Sep 2020	9:00 PM	0	NNW
15 Sep 2020	10:00 PM	0	NNW
15 Sep 2020	11:00 PM	0.4	NNW
16 Sep 2020	12:00 AM	0.4	NNW
16 Sep 2020	1:00 AM	0.9	WNW
16 Sep 2020	2:00 AM	1.3	NNW
16 Sep 2020	3:00 AM	1.3	WNW
16 Sep 2020	4:00 AM	0.9	NNW
16 Sep 2020	5:00 AM	0.9	WNW
16 Sep 2020	6:00 AM	0.9	WNW
16 Sep 2020	7:00 AM	2.7	WNW
16 Sep 2020	8:00 AM	2.2	WNW
16 Sep 2020	9:00 AM	0.9	WNW
16 Sep 2020	10:00 AM	0.4	WNW
16 Sep 2020	11:00 AM	0.4	NW
16 Sep 2020	12:00 PM	0.4	WNW
16 Sep 2020	1:00 PM	0.9	NNW
16 Sep 2020	2:00 PM	0.9	NW
16 Sep 2020	3:00 PM	0.9	NW
16 Sep 2020	4:00 PM	1.3	NNW
16 Sep 2020	5:00 PM	1.8	NNW
16 Sep 2020	6:00 PM	2.7	NNW
16 Sep 2020	7:00 PM	3.6	NNW
16 Sep 2020	8:00 PM	2.2	NNW
16 Sep 2020	9:00 PM	2.2	NNW
16 Sep 2020	10:00 PM	1.8	NNW
16 Sep 2020	11:00 PM	1.3	NNW
17 Sep 2020	12:00 AM	0.9	NNW
17 Sep 2020	1:00 AM	0.4	NNW
17 Sep 2020	2:00 AM	0.4	NNW
17 Sep 2020	3:00 AM	0.4	NNW
17 Sep 2020	4:00 AM	0.9	NNW
17 Sep 2020	5:00 AM	0.9	NNW
17 Sep 2020	6:00 AM	1.3	NNW
17 Sep 2020	7:00 AM	0.4	NW
17 Sep 2020	8:00 AM	0.9	NW
17 Sep 2020	9:00 AM	1.8	WNW
17 Sep 2020	10:00 AM	0.4	NW
17 Sep 2020	11:00 AM	0.9	WNW

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
17 Sep 2020	12:00 PM	0.9	SSW
17 Sep 2020	1:00 PM	0.9	WSW
17 Sep 2020	2:00 PM	1.8	WSW
17 Sep 2020	3:00 PM	0.9	W
17 Sep 2020	4:00 PM	0.4	SSW
17 Sep 2020	5:00 PM	0	SSW
17 Sep 2020	6:00 PM	0.9	SSW
17 Sep 2020	7:00 PM	0.4	SSW
17 Sep 2020	8:00 PM	0.9	SSW
17 Sep 2020	9:00 PM	0.9	SW
17 Sep 2020	10:00 PM	1.3	SW
17 Sep 2020	11:00 PM	2.7	SW
18 Sep 2020	12:00 AM	2.2	NW
18 Sep 2020	1:00 AM	2.7	NW
18 Sep 2020	2:00 AM	3.1	NW
18 Sep 2020	3:00 AM	2.2	NW
18 Sep 2020	4:00 AM	1.3	NW
18 Sep 2020	5:00 AM	0.9	NW
18 Sep 2020	6:00 AM	0.9	NW
18 Sep 2020	7:00 AM	0.9	NW
18 Sep 2020	8:00 AM	0.9	WNW
18 Sep 2020	9:00 AM	0.9	NW
18 Sep 2020	10:00 AM	0.9	NW
18 Sep 2020	11:00 AM	0.9	SSW
18 Sep 2020	12:00 PM	1.3	SW
18 Sep 2020	1:00 PM	0.9	SE
18 Sep 2020	2:00 PM	1.8	SE
18 Sep 2020	3:00 PM	0.9	SE
18 Sep 2020	4:00 PM	0.9	SSE
18 Sep 2020	5:00 PM	0.9	SSW
18 Sep 2020	6:00 PM	0.9	SSW
18 Sep 2020	7:00 PM	0.9	SW
18 Sep 2020	8:00 PM	1.3	SW
18 Sep 2020	9:00 PM	0.9	WNW
18 Sep 2020	10:00 PM	0	WNW
18 Sep 2020	11:00 PM	0.9	W
19 Sep 2020	12:00 AM	0.4	W
19 Sep 2020	1:00 AM	0	W
19 Sep 2020	2:00 AM	0.9	W
19 Sep 2020	3:00 AM	0.4	W
19 Sep 2020	4:00 AM	0.9	W
19 Sep 2020	5:00 AM	0.9	WNW
19 Sep 2020	6:00 AM	1.3	WNW
19 Sep 2020	7:00 AM	2.7	WNW

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
19 Sep 2020	8:00 AM	0.9	WSW
19 Sep 2020	9:00 AM	0.9	WNW
19 Sep 2020	10:00 AM	1.3	WNW
19 Sep 2020	11:00 AM	2.7	WNW
19 Sep 2020	12:00 PM	1.3	NW
19 Sep 2020	1:00 PM	1.8	W
19 Sep 2020	2:00 PM	0.9	W
19 Sep 2020	3:00 PM	1.3	---
19 Sep 2020	4:00 PM	0.9	---
19 Sep 2020	5:00 PM	1.3	W
19 Sep 2020	6:00 PM	2.7	W
19 Sep 2020	7:00 PM	2.2	W
19 Sep 2020	8:00 PM	2.2	---
19 Sep 2020	9:00 PM	0.9	---
19 Sep 2020	10:00 PM	0.4	W
19 Sep 2020	11:00 PM	0.4	SW
20 Sep 2020	12:00 AM	0.4	SW
20 Sep 2020	1:00 AM	0.9	SSW
20 Sep 2020	2:00 AM	0.9	SSW
20 Sep 2020	3:00 AM	0.9	SSW
20 Sep 2020	4:00 AM	1.3	SW
20 Sep 2020	5:00 AM	1.8	SSW
20 Sep 2020	6:00 AM	2.7	SSW
20 Sep 2020	7:00 AM	3.6	SSW
20 Sep 2020	8:00 AM	2.2	SSW
20 Sep 2020	9:00 AM	2.2	SSW
20 Sep 2020	10:00 AM	1.8	SW
20 Sep 2020	11:00 AM	1.3	WNW
20 Sep 2020	12:00 PM	0.9	WNW
20 Sep 2020	1:00 PM	0.4	WNW
20 Sep 2020	2:00 PM	0.4	W
20 Sep 2020	3:00 PM	0.4	WSW
20 Sep 2020	4:00 PM	0.9	WSW
20 Sep 2020	5:00 PM	0.9	WSW
20 Sep 2020	6:00 PM	1.3	WNW
20 Sep 2020	7:00 PM	0.9	ENE
20 Sep 2020	8:00 PM	0.9	WNW
20 Sep 2020	9:00 PM	0.4	WNW
20 Sep 2020	10:00 PM	0.9	WNW
20 Sep 2020	11:00 PM	0.4	WNW
21 Sep 2020	12:00 AM	0.9	WNW
21 Sep 2020	1:00 AM	0.9	WNW
21 Sep 2020	2:00 AM	0.9	WNW
21 Sep 2020	3:00 AM	1.3	NNE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
21 Sep 2020	4:00 AM	0.4	WNW
21 Sep 2020	5:00 AM	0.4	WNW
21 Sep 2020	6:00 AM	0.9	WNW
21 Sep 2020	7:00 AM	0.4	WNW
21 Sep 2020	8:00 AM	0.4	WNW
21 Sep 2020	9:00 AM	0.4	WNW
21 Sep 2020	10:00 AM	0.4	WNW
21 Sep 2020	11:00 AM	0.9	WNW
21 Sep 2020	12:00 PM	0.9	WNW
21 Sep 2020	1:00 PM	0.4	WNW
21 Sep 2020	2:00 PM	0.4	WNW
21 Sep 2020	3:00 PM	0.4	WNW
21 Sep 2020	4:00 PM	0.9	WNW
21 Sep 2020	5:00 PM	1.3	WNW
21 Sep 2020	6:00 PM	1.3	WNW
21 Sep 2020	7:00 PM	1.3	W
21 Sep 2020	8:00 PM	1.3	WNW
21 Sep 2020	9:00 PM	0.9	WNW
21 Sep 2020	10:00 PM	1.3	WNW
21 Sep 2020	11:00 PM	1.8	WNW
22 Sep 2020	12:00 AM	1.3	NW
22 Sep 2020	1:00 AM	1.3	ESE
22 Sep 2020	2:00 AM	1.3	ESE
22 Sep 2020	3:00 AM	1.3	NW
22 Sep 2020	4:00 AM	1.3	WNW
22 Sep 2020	5:00 AM	0.9	WNW
22 Sep 2020	6:00 AM	0	WNW
22 Sep 2020	7:00 AM	0	WNW
22 Sep 2020	8:00 AM	0	WNW
22 Sep 2020	9:00 AM	0	WNW
22 Sep 2020	10:00 AM	0.4	WNW
22 Sep 2020	11:00 AM	1.3	WNW
22 Sep 2020	12:00 PM	2.2	WNW
22 Sep 2020	1:00 PM	3.6	WSW
22 Sep 2020	2:00 PM	3.6	WSW
22 Sep 2020	3:00 PM	3.1	WNW
22 Sep 2020	4:00 PM	3.1	WNW
22 Sep 2020	5:00 PM	1.8	WNW
22 Sep 2020	6:00 PM	1.3	WSW
22 Sep 2020	7:00 PM	0.4	W
22 Sep 2020	8:00 PM	0.9	WNW
22 Sep 2020	9:00 PM	0.9	W
22 Sep 2020	10:00 PM	0.9	WNW
22 Sep 2020	11:00 PM	0.9	NNE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
23 Sep 2020	12:00 AM	1.3	W
23 Sep 2020	1:00 AM	0.9	WNW
23 Sep 2020	2:00 AM	0.9	WNW
23 Sep 2020	3:00 AM	0.9	WNW
23 Sep 2020	4:00 AM	1.3	WNW
23 Sep 2020	5:00 AM	1.8	WNW
23 Sep 2020	6:00 AM	1.3	WNW
23 Sep 2020	7:00 AM	1.3	WNW
23 Sep 2020	8:00 AM	1.3	WNW
23 Sep 2020	9:00 AM	1.3	WNW
23 Sep 2020	10:00 AM	0.4	WNW
23 Sep 2020	11:00 AM	0.9	WSW
23 Sep 2020	12:00 PM	0.9	WSW
23 Sep 2020	1:00 PM	1.3	WSW
23 Sep 2020	2:00 PM	1.3	WSW
23 Sep 2020	3:00 PM	0.9	W
23 Sep 2020	4:00 PM	0.9	NE
23 Sep 2020	5:00 PM	0.9	ENE
23 Sep 2020	6:00 PM	0.4	NE
23 Sep 2020	7:00 PM	0.9	NE
23 Sep 2020	8:00 PM	0.4	WSW
23 Sep 2020	9:00 PM	0.9	W
23 Sep 2020	10:00 PM	0.9	WSW
23 Sep 2020	11:00 PM	0.9	WSW
24 Sep 2020	12:00 AM	1.3	WSW
24 Sep 2020	1:00 AM	0.4	WSW
24 Sep 2020	2:00 AM	0.4	WNW
24 Sep 2020	3:00 AM	0.9	WNW
24 Sep 2020	4:00 AM	0.4	WSW
24 Sep 2020	5:00 AM	0.4	WNW
24 Sep 2020	6:00 AM	0.4	WSW
24 Sep 2020	7:00 AM	0.9	WNW
24 Sep 2020	8:00 AM	0.9	WNW
24 Sep 2020	9:00 AM	0.4	WNW
24 Sep 2020	10:00 AM	0.4	WNW
24 Sep 2020	11:00 AM	0.4	WNW
24 Sep 2020	12:00 PM	0.9	ENE
24 Sep 2020	1:00 PM	1.3	WSW
24 Sep 2020	2:00 PM	1.3	WSW
24 Sep 2020	3:00 PM	1.3	SW
24 Sep 2020	4:00 PM	1.3	E
24 Sep 2020	5:00 PM	0.9	ENE
24 Sep 2020	6:00 PM	1.3	ENE
24 Sep 2020	7:00 PM	1.8	ENE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
24 Sep 2020	8:00 PM	1.3	E
24 Sep 2020	9:00 PM	1.3	ENE
24 Sep 2020	10:00 PM	1.3	ENE
24 Sep 2020	11:00 PM	1.3	ENE
25 Sep 2020	12:00 AM	1.3	ENE
25 Sep 2020	1:00 AM	0.9	E
25 Sep 2020	2:00 AM	1.3	ESE
25 Sep 2020	3:00 AM	1.3	E
25 Sep 2020	4:00 AM	1.8	ENE
25 Sep 2020	5:00 AM	1.3	ESE
25 Sep 2020	6:00 AM	1.8	ENE
25 Sep 2020	7:00 AM	1.8	ESE
25 Sep 2020	8:00 AM	2.2	E
25 Sep 2020	9:00 AM	1.3	ENE
25 Sep 2020	10:00 AM	1.8	ESE
25 Sep 2020	11:00 AM	1.3	ENE
25 Sep 2020	12:00 PM	0.9	SE
25 Sep 2020	1:00 PM	0.9	ENE
25 Sep 2020	2:00 PM	1.3	ENE
25 Sep 2020	3:00 PM	1.3	ESE
25 Sep 2020	4:00 PM	0.9	E
25 Sep 2020	5:00 PM	1.3	ENE
25 Sep 2020	6:00 PM	0.9	ENE
25 Sep 2020	7:00 PM	1.3	ESE
25 Sep 2020	8:00 PM	1.3	SE
25 Sep 2020	9:00 PM	1.8	ENE
25 Sep 2020	10:00 PM	0.9	SW
25 Sep 2020	11:00 PM	1.3	ENE
26 Sep 2020	12:00 AM	1.3	E
26 Sep 2020	1:00 AM	2.2	SW
26 Sep 2020	2:00 AM	1.8	ENE
26 Sep 2020	3:00 AM	1.8	ENE
26 Sep 2020	4:00 AM	1.8	SW
26 Sep 2020	5:00 AM	1.8	SW
26 Sep 2020	6:00 AM	0.9	SSW
26 Sep 2020	7:00 AM	0.9	SW
26 Sep 2020	8:00 AM	1.3	SW
26 Sep 2020	9:00 AM	1.3	SW
26 Sep 2020	10:00 AM	1.3	SW
26 Sep 2020	11:00 AM	1.3	SW
26 Sep 2020	12:00 PM	1.8	SSE
26 Sep 2020	1:00 PM	0.9	NE
26 Sep 2020	2:00 PM	1.3	NE
26 Sep 2020	3:00 PM	0.9	NE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
26 Sep 2020	4:00 PM	1.8	NE
26 Sep 2020	5:00 PM	3.6	SE
26 Sep 2020	6:00 PM	3.1	ENE
26 Sep 2020	7:00 PM	3.1	ENE
26 Sep 2020	8:00 PM	3.6	ENE
26 Sep 2020	9:00 PM	1.3	ENE
26 Sep 2020	10:00 PM	1.3	ENE
26 Sep 2020	11:00 PM	1.3	ENE
27 Sep 2020	12:00 AM	0.9	ENE
27 Sep 2020	1:00 AM	0.9	ENE
27 Sep 2020	2:00 AM	0.9	ENE
27 Sep 2020	3:00 AM	0.9	ENE
27 Sep 2020	4:00 AM	1.3	ENE
27 Sep 2020	5:00 AM	0.9	ENE
27 Sep 2020	6:00 AM	0.9	ENE
27 Sep 2020	7:00 AM	0.4	ENE
27 Sep 2020	8:00 AM	0.9	ENE
27 Sep 2020	9:00 AM	1.8	ENE
27 Sep 2020	10:00 AM	0.9	ENE
27 Sep 2020	11:00 AM	1.8	ENE
27 Sep 2020	12:00 PM	1.3	ENE
27 Sep 2020	1:00 PM	0.4	ENE
27 Sep 2020	2:00 PM	0.4	E
27 Sep 2020	3:00 PM	0.9	ESE
27 Sep 2020	4:00 PM	0.9	ENE
27 Sep 2020	5:00 PM	1.8	ENE
27 Sep 2020	6:00 PM	0.9	E
27 Sep 2020	7:00 PM	0.9	SE
27 Sep 2020	8:00 PM	1.8	ESE
27 Sep 2020	9:00 PM	1.8	E
27 Sep 2020	10:00 PM	1.3	ESE
27 Sep 2020	11:00 PM	1.3	ESE
28 Sep 2020	12:00 AM	1.3	ESE
28 Sep 2020	1:00 AM	0.9	ENE
28 Sep 2020	2:00 AM	1.3	ENE
28 Sep 2020	3:00 AM	0.4	ENE
28 Sep 2020	4:00 AM	0	ENE
28 Sep 2020	5:00 AM	0	SW
28 Sep 2020	6:00 AM	0.4	SW
28 Sep 2020	7:00 AM	0.4	SW
28 Sep 2020	8:00 AM	0.9	SW
28 Sep 2020	9:00 AM	1.3	SSW
28 Sep 2020	10:00 AM	0.9	SW
28 Sep 2020	11:00 AM	0.9	ENE

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
28 Sep 2020	12:00 PM	0.9	NE
28 Sep 2020	1:00 PM	0.4	SSW
28 Sep 2020	2:00 PM	0.9	SSW
28 Sep 2020	3:00 PM	1.3	S
28 Sep 2020	4:00 PM	1.8	ENE
28 Sep 2020	5:00 PM	1.8	ENE
28 Sep 2020	6:00 PM	0.9	ENE
28 Sep 2020	7:00 PM	1.3	ENE
28 Sep 2020	8:00 PM	1.3	ENE
28 Sep 2020	9:00 PM	0.9	SW
28 Sep 2020	10:00 PM	2.7	SW
28 Sep 2020	11:00 PM	1.3	SW
29 Sep 2020	12:00 AM	0.9	SW
29 Sep 2020	1:00 AM	0.9	SW
29 Sep 2020	2:00 AM	0	SSW
29 Sep 2020	3:00 AM	0.4	SSW
29 Sep 2020	4:00 AM	0	SW
29 Sep 2020	5:00 AM	0.4	SW
29 Sep 2020	6:00 AM	0.4	SW
29 Sep 2020	7:00 AM	0.4	SW
29 Sep 2020	8:00 AM	0.4	SW
29 Sep 2020	9:00 AM	0	ENE
29 Sep 2020	10:00 AM	0.4	ESE
29 Sep 2020	11:00 AM	0.4	E
29 Sep 2020	12:00 PM	0.4	E
29 Sep 2020	1:00 PM	0.4	ESE
29 Sep 2020	2:00 PM	0.4	E
29 Sep 2020	3:00 PM	0.4	E
29 Sep 2020	4:00 PM	0.4	ENE
29 Sep 2020	5:00 PM	0.4	ENE
29 Sep 2020	6:00 PM	0.4	NNE
29 Sep 2020	7:00 PM	1.3	ENE
29 Sep 2020	8:00 PM	1.3	ENE
29 Sep 2020	9:00 PM	2.2	ENE
29 Sep 2020	10:00 PM	1.3	ENE
29 Sep 2020	11:00 PM	0.4	WNW
30 Sep 2020	12:00 AM	0.9	E
30 Sep 2020	1:00 AM	0.4	ENE
30 Sep 2020	2:00 AM	0.4	E
30 Sep 2020	3:00 AM	0.4	E
30 Sep 2020	4:00 AM	0.4	E
30 Sep 2020	5:00 AM	0.4	NW
30 Sep 2020	6:00 AM	0.4	W
30 Sep 2020	7:00 AM	0.4	W

September 2020			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
30 Sep 2020	8:00 AM	0.4	NW
30 Sep 2020	9:00 AM	0.9	NW
30 Sep 2020	10:00 AM	0.4	NW
30 Sep 2020	11:00 AM	0.9	WNW
30 Sep 2020	12:00 PM	0.4	NW
30 Sep 2020	1:00 PM	0.9	W
30 Sep 2020	2:00 PM	1.3	ESE
30 Sep 2020	3:00 PM	1.3	E
30 Sep 2020	4:00 PM	1.8	WSW
30 Sep 2020	5:00 PM	1.8	E
30 Sep 2020	6:00 PM	2.2	ESE
30 Sep 2020	7:00 PM	1.3	W
30 Sep 2020	8:00 PM	2.7	WSW
30 Sep 2020	9:00 PM	2.2	W
30 Sep 2020	10:00 PM	2.2	ESE
30 Sep 2020	11:00 PM	1.3	ENE

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 (September 2020)

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

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

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)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Oct	2-Oct	3-Oct
						24-hrs TSP
4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct
	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3	
11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct
			24-hrs TSP	1-hr TSP X3 Noise		
18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct
		24-hrs TSP	1-hr TSP X3 Noise			
25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
	24-hrs TSP	1-hr TSP X3 Noise				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

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)

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

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

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Dec	2-Dec	3-Dec	4-Dec	5-Dec
			24-hrs TSP	1-hr TSP X3 Noise		
6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec
		24-hrs TSP	1-hr TSP X3 Noise			
13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec
	24-hrs TSP	1-hr TSP X3 Noise				24-hrs TSP
20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec
	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3	
27-Dec	28-Dec	29-Dec	30-Dec	31-Dec		
			24-hrs TSP	1-hr TSP X3 Noise		

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

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

APPENDIX E
1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

APPENDIX E - 1-HOUR TSP MONITORING RESULTS

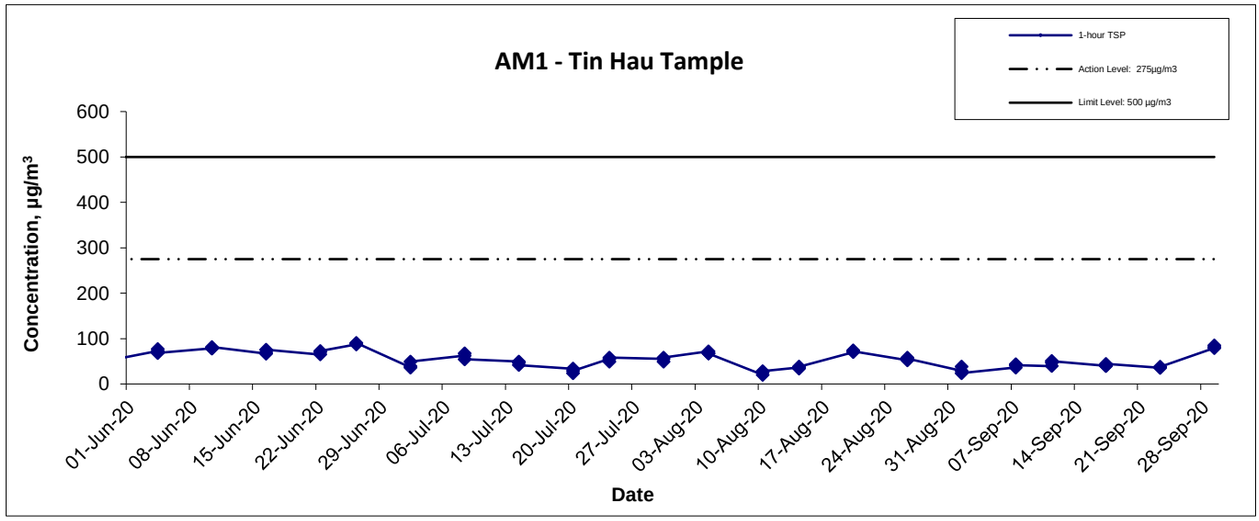
Location AM1 - Tin Hau Temple			
Date	Time	Weather	Particulate Concentration (μg/m^3)
01-Sep-20	13:00	Cloudy	28.8
01-Sep-20	14:00	Cloudy	38.4
01-Sep-20	15:00	Cloudy	24.0
07-Sep-20	13:00	Sunny	36.0
07-Sep-20	14:00	Sunny	43.2
07-Sep-20	15:00	Sunny	41.4
11-Sep-20	13:00	Cloudy	39.6
11-Sep-20	14:00	Cloudy	46.8
11-Sep-20	15:00	Cloudy	50.4
17-Sep-20	13:00	Cloudy	40.0
17-Sep-20	14:00	Cloudy	40.0
17-Sep-20	15:00	Cloudy	44.0
23-Sep-20	13:00	Sunny	35.7
23-Sep-20	14:00	Sunny	37.8
23-Sep-20	15:00	Sunny	37.8
29-Sep-20	14:14	Cloudy	79.2
29-Sep-20	15:14	Cloudy	84.6
29-Sep-20	16:14	Cloudy	81.0
		Average	46.0
		Maximum	84.6
		Minimum	24.0

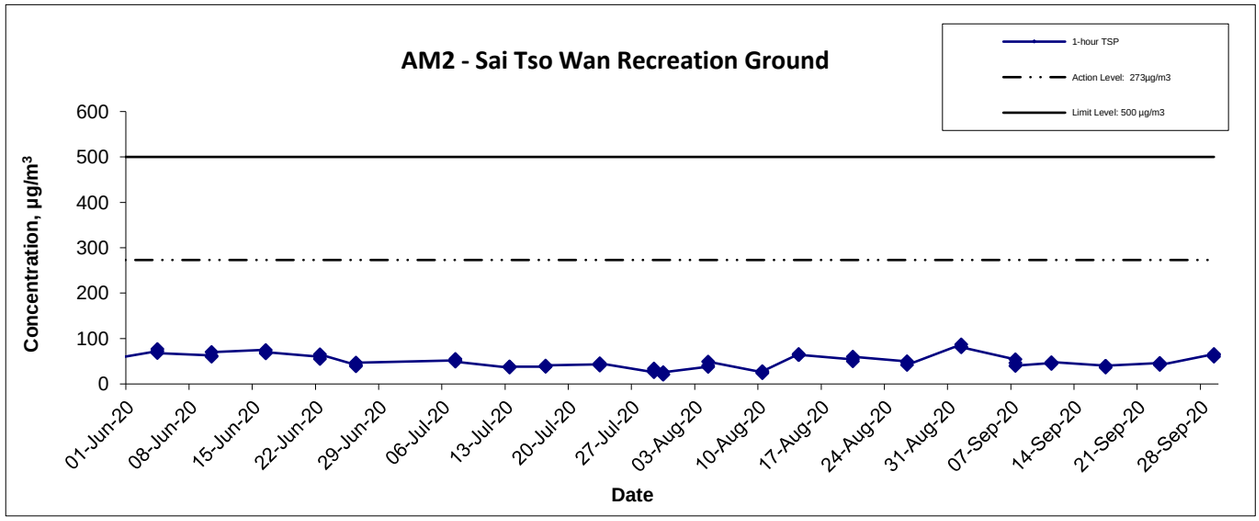
Location AM2 - Sai Tso Wan Recreation Ground			
Date	Time	Weather	***Particulate Concentration (μg/m^3)***
01-Sep-20	16:00	Sunny	87.0
01-Sep-20	17:00	Sunny	81.2
01-Sep-20	18:00	Sunny	81.2
07-Sep-20	9:00	Sunny	54.0
07-Sep-20	10:00	Sunny	46.0
07-Sep-20	11:00	Sunny	40.0
11-Sep-20	9:00	Sunny	46.0
11-Sep-20	10:00	Sunny	44.0
11-Sep-20	11:00	Sunny	48.0
17-Sep-20	15:00	Cloudy	40.0
17-Sep-20	16:00	Cloudy	36.0
17-Sep-20	17:00	Cloudy	40.0
23-Sep-20	9:00	Sunny	46.0
23-Sep-20	10:00	Sunny	44.0
23-Sep-20	11:00	Sunny	42.0
29-Sep-20	9:00	Rainy	66.0
29-Sep-20	10:00	Rainy	64.0
29-Sep-20	11:00	Rainy	60.0
		Average	53.6
		Maximum	87.0
		Minimum	36.0

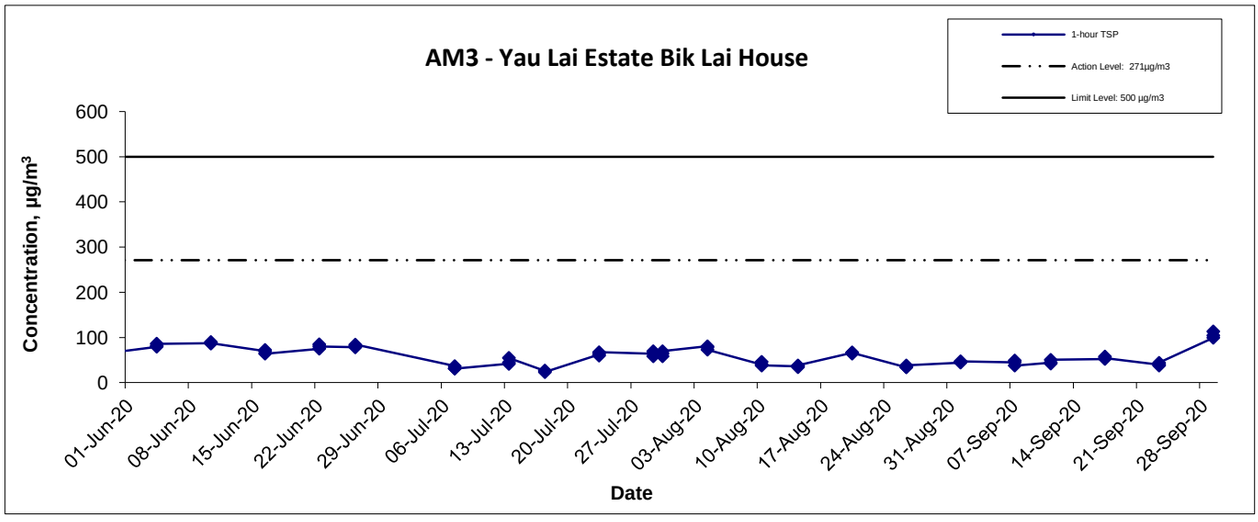
Location AM3 - Yau Lai Estate Bik Lai House			
Date	Time	Weather	***Particulate Concentration (μg/m^3)***
01-Sep-20	16:00	Cloudy	44.2
01-Sep-20	17:00	Cloudy	46.8
01-Sep-20	18:00	Cloudy	46.8
07-Sep-20	16:00	Sunny	45.0
07-Sep-20	17:00	Sunny	48.6
07-Sep-20	18:00	Sunny	37.8
11-Sep-20	9:00	Sunny	44.1
11-Sep-20	10:00	Sunny	42.0
11-Sep-20	11:00	Sunny	50.4
17-Sep-20	16:00	Cloudy	52.2
17-Sep-20	17:00	Cloudy	57.6
17-Sep-20	18:00	Cloudy	54.0
23-Sep-20	16:00	Cloudy	40.0
23-Sep-20	17:00	Cloudy	38.0
23-Sep-20	18:00	Cloudy	44.0
29-Sep-20	10:30	Cloudy	99.0
29-Sep-20	11:30	Cloudy	104.4
29-Sep-20	12:30	Cloudy	113.4
		Average	56.0
		Maximum	113.4
		Minimum	37.8

Location AM4 - Sitting-out Area at Cha Kwo Ling Village			
Date	Time	Weather	***Particulate Concentration (μg/m^3)***
01-Sep-20	9:00	Cloudy	33.8
01-Sep-20	10:00	Cloudy	36.4
01-Sep-20	11:00	Cloudy	44.2
07-Sep-20	9:00	Sunny	48.6
07-Sep-20	10:00	Sunny	52.2
07-Sep-20	11:00	Sunny	43.2
11-Sep-20	16:00	Cloudy	46.2
11-Sep-20	17:00	Cloudy	52.5
11-Sep-20	18:00	Cloudy	44.1
17-Sep-20	9:00	Cloudy	41.4
17-Sep-20	10:00	Cloudy	43.2
17-Sep-20	11:00	Cloudy	37.8
23-Sep-20	9:00	Sunny	42.0
23-Sep-20	10:00	Sunny	48.0
23-Sep-20	11:00	Sunny	44.0
29-Sep-20	14:11	Cloudy	73.8
29-Sep-20	15:11	Cloudy	81.0
29-Sep-20	16:11	Cloudy	84.6
		Average	49.8
		Maximum	84.6
		Minimum	33.8

1-hr TSP Concentration Levels

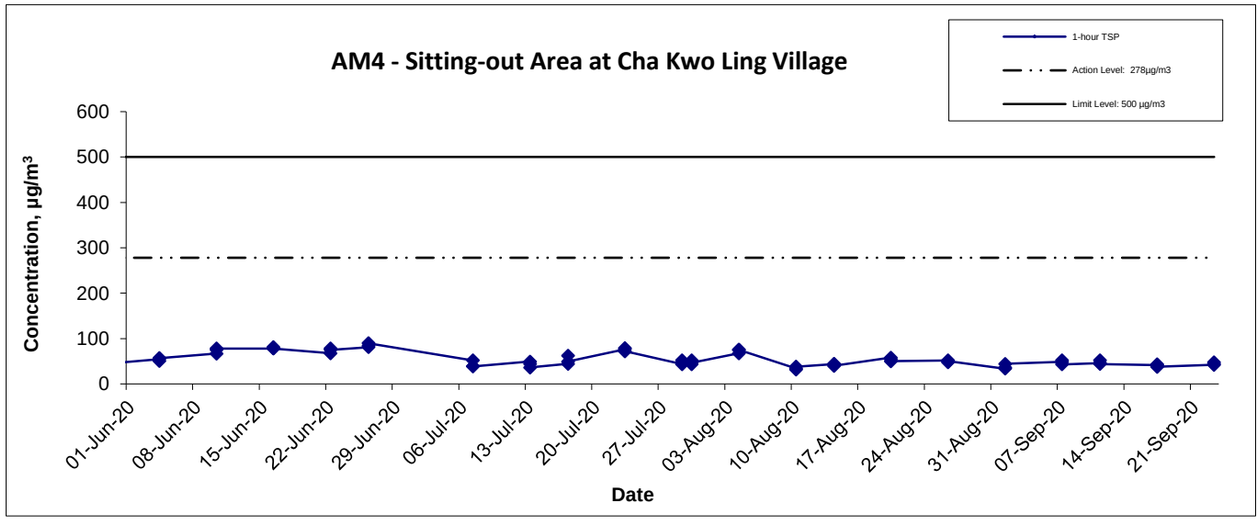






Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S	Project No. MA20003	CINOTECH
	Date Sep-20	Appendix E	

1-hr TSP Concentration Levels



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 Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S Date Sep-20	Project No. MA20003 Appendix E	CINOTECH

APPENDIX F
24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Air	Atmospheric	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	(µg/m^3)
05-Sep-20	Sunny	302.1	756.1	3.4756	3.6380	0.1624	7134.6	7158.6	24.0	1.22	1.22	1.22	1753.8	92.6
10-Sep-20	Sunny	301.2	756.8	3.5009	3.6472	0.1463	7158.6	7182.6	24.0	1.22	1.22	1.22	1757.2	83.3
													Min	83.3
													Max	92.6
													Average	87.9

*Due to the cut off of power supply of HVS by the supplier, the 24-hr TSP monitoring for the monitoring station AM1 has been temporary suspended since 12 September 2020.

Location AM2 - Sai Tso Wan Recreation Ground

Start Date	Weather	Air	Atmospheric	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	(µg/m^3)
05-Sep-20	Sunny	302.1	756.1	3.50171	3.5727	0.0710	28240.8	28264.8	24.0	1.22	1.22	1.22	1751.6	40.5
10-Sep-20	Sunny	301.2	756.8	3.5007	3.5468	0.0461	28264.8	28288.8	24.0	1.22	1.22	1.22	1755.0	26.3
16-Sep-20	Cloudy	302.1	756.5	3.4964	3.5152	0.0188	28288.8	28312.8	24.0	1.22	1.22	1.22	1752.1	10.7
22-Sep-20	Cloudy	301.8	758.8	3.5043	3.5713	0.0670	28312.8	28336.8	24.0	1.22	1.22	1.22	1755.6	38.2
28-Sep-20	Rainy	300.0	758.1	3.4788	3.5450	0.0662	28336.8	28360.8	24.0	1.22	1.22	1.22	1760.0	37.6
													Min	10.7
													Max	40.5
													Average	30.7

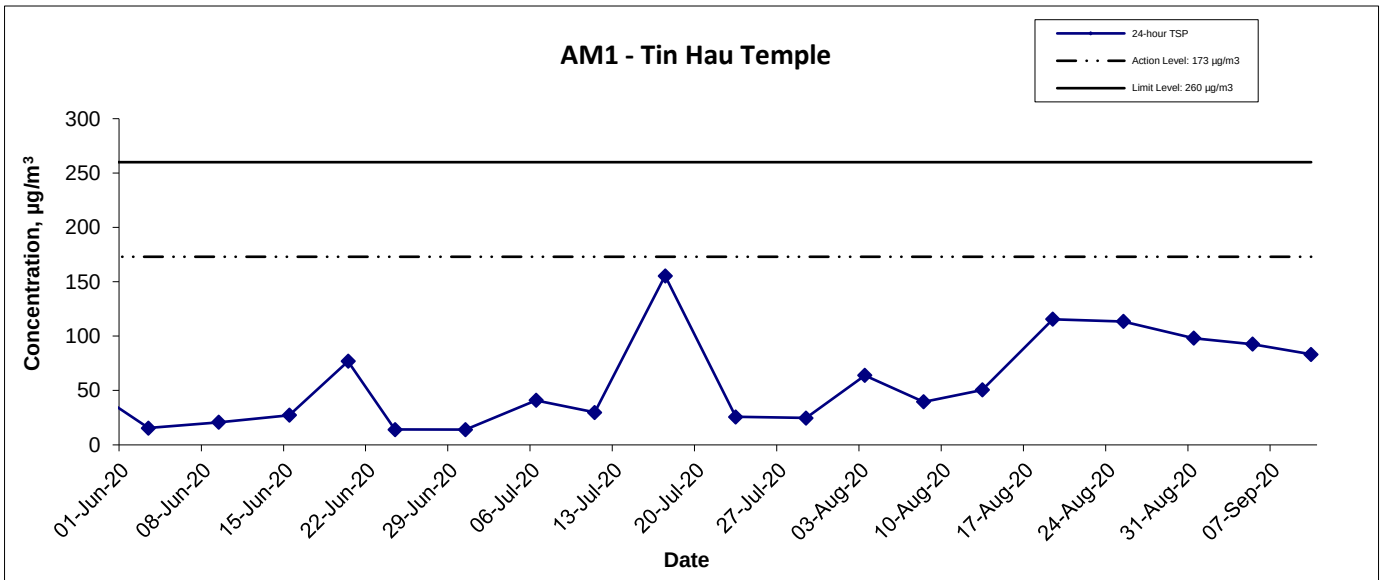
Location AM3 - Yau Lai Estate, Bik Lai House

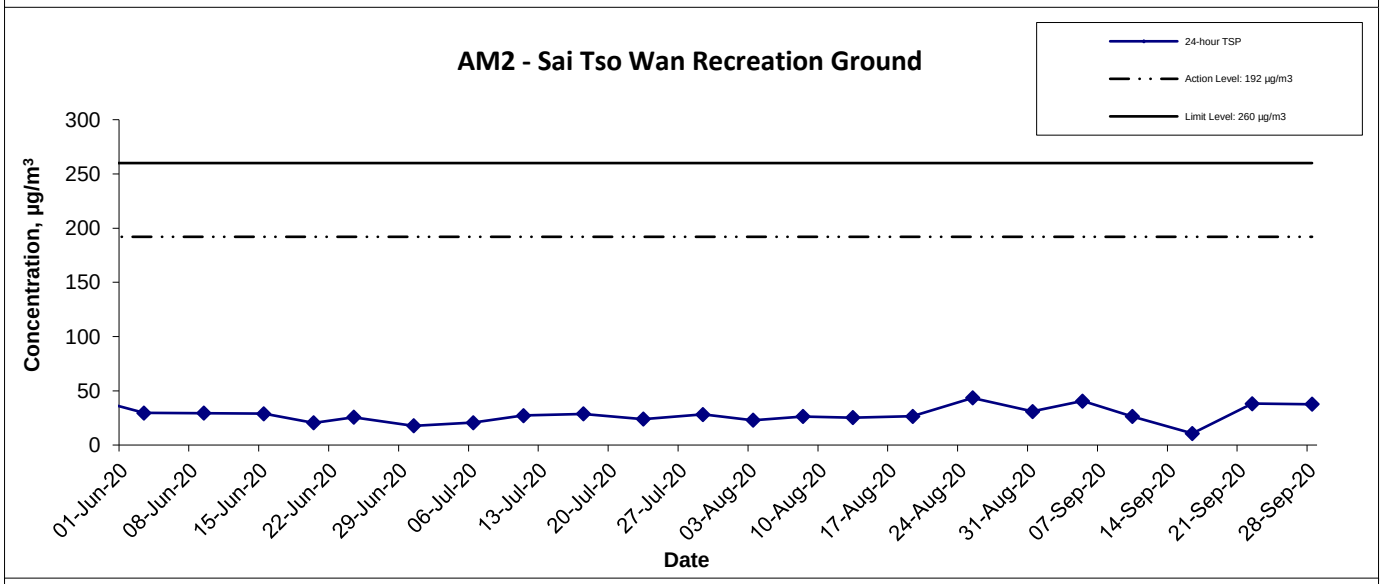
Start Date	Weather	Air	Atmospheric	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	(µg/m^3)
05-Sep-20	Sunny	302.1	756.1	3.4856	3.5698	0.0842	2188.3	2212.3	24.0	1.22	1.22	1.22	1754.2	48.0
10-Sep-20	Sunny	301.2	756.8	3.4842	3.5296	0.0454	2212.3	2236.3	24.0	1.22	1.22	1.22	1757.9	25.8
16-Sep-20	Cloudy	302.1	756.5	3.4875	3.5559	0.0684	2236.3	2260.3	24.0	1.22	1.22	1.22	1754.8	39.0
22-Sep-20	Cloudy	301.8	758.8	3.4402	3.5463	0.1061	2260.3	2284.3	24.0	1.22	1.22	1.22	1758.5	60.3
28-Sep-20	Rainy	300.0	758.1	3.4886	3.5349	0.0463	2284.3	2308.3	24.0	1.23	1.22	1.22	1763.2	26.3
													Min	25.8
													Max	60.3
													Average	39.9

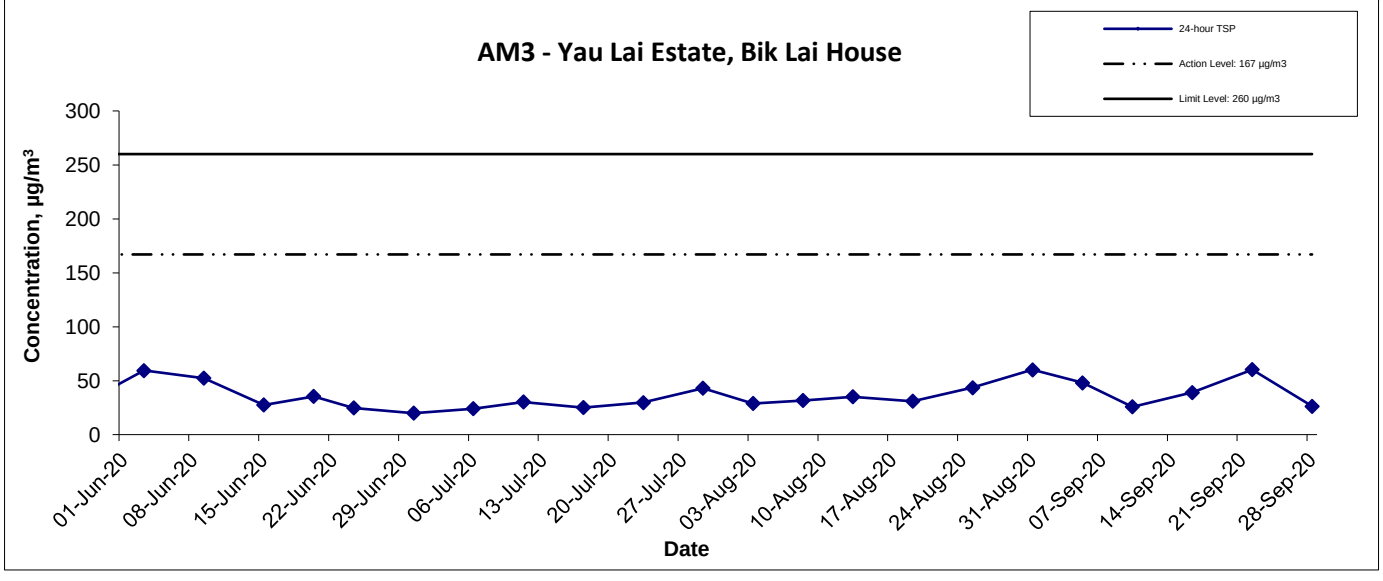
Location AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office

Start Date	Weather	Air	Atmospheric	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	(µg/m^3)
05-Sep-20	Sunny	302.1	756.1	3.4832	3.5339	0.0507	13465.2	13489.2	24.0	1.22	1.22	1.22	1754.1	28.9
10-Sep-20	Sunny	301.2	756.8	3.5041	3.5480	0.0439	13466.2	13490.2	24.0	1.22	1.22	1.22	1757.3	25.0
16-Sep-20	Sunny	302.1	756.5	3.5011	3.5516	0.0505	13467.2	13491.2	24.0	1.22	1.22	1.22	1754.3	28.8
22-Sep-20	Sunny	301.8	758.8	3.4775	3.5455	0.0680	13468.2	13492.2	24.0	1.22	1.22	1.22	1757.8	38.7
28-Sep-20	Sunny	300.0	758.1	3.4804	3.5554	0.0750	13469.2	13493.2	24.0	1.23	1.22	1.22	1762.3	42.6
													Min	25.0
													Max	42.6
													Average	32.8

24-hr TSP Concentration Levels

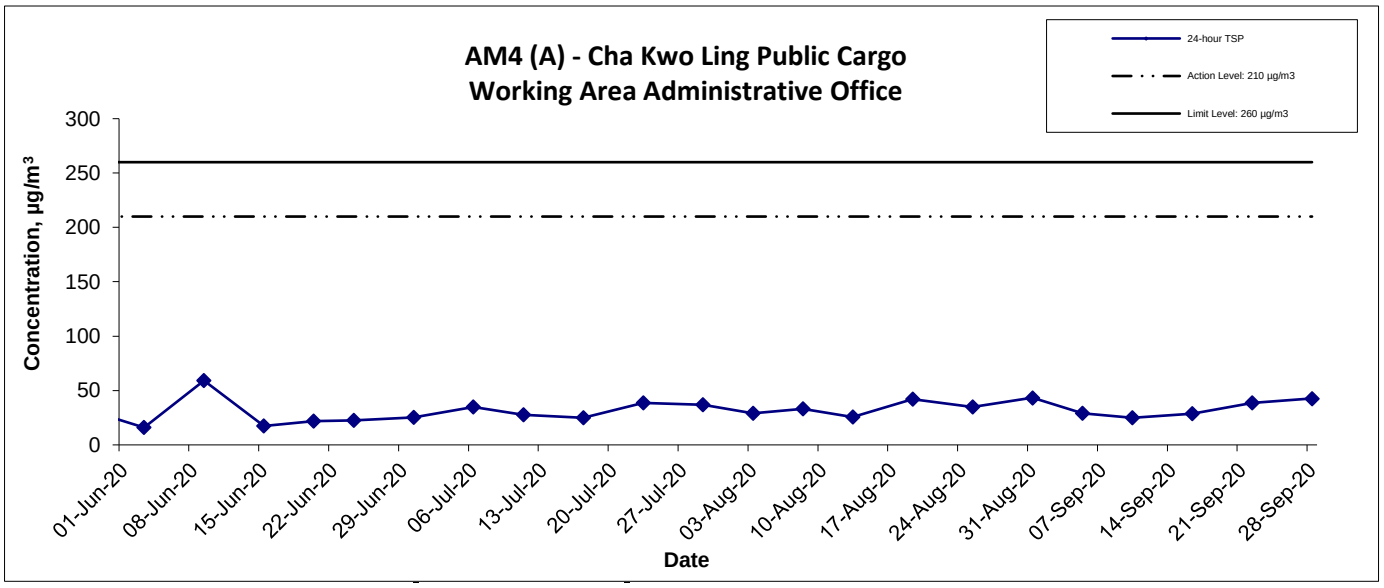






Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S	Project No. MA20003	CINOTECH
	Date Sep-20	Appendix F	

24-hr TSP Concentration Levels



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 Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S Date Sep-20	Project No. MA20003 Appendix F	CINOTECH

APPENDIX G
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
1 Sep 2020	16:52	Cloudy	73.0	75.2	69.6	65.5	72
7 Sep 2020	15:30	Sunny	67.9	69.7	66.0	65.5	64
17 Sep 2020	15:00	Cloudy	73.0	74.8	70.7	65.5	72
23 Sep 2020	15:20	Cloudy	72.2	72.9	68.8	65.5	71
29 Sep 2020	11:24	Cloudy	69.6	71.4	67.4	65.5	67

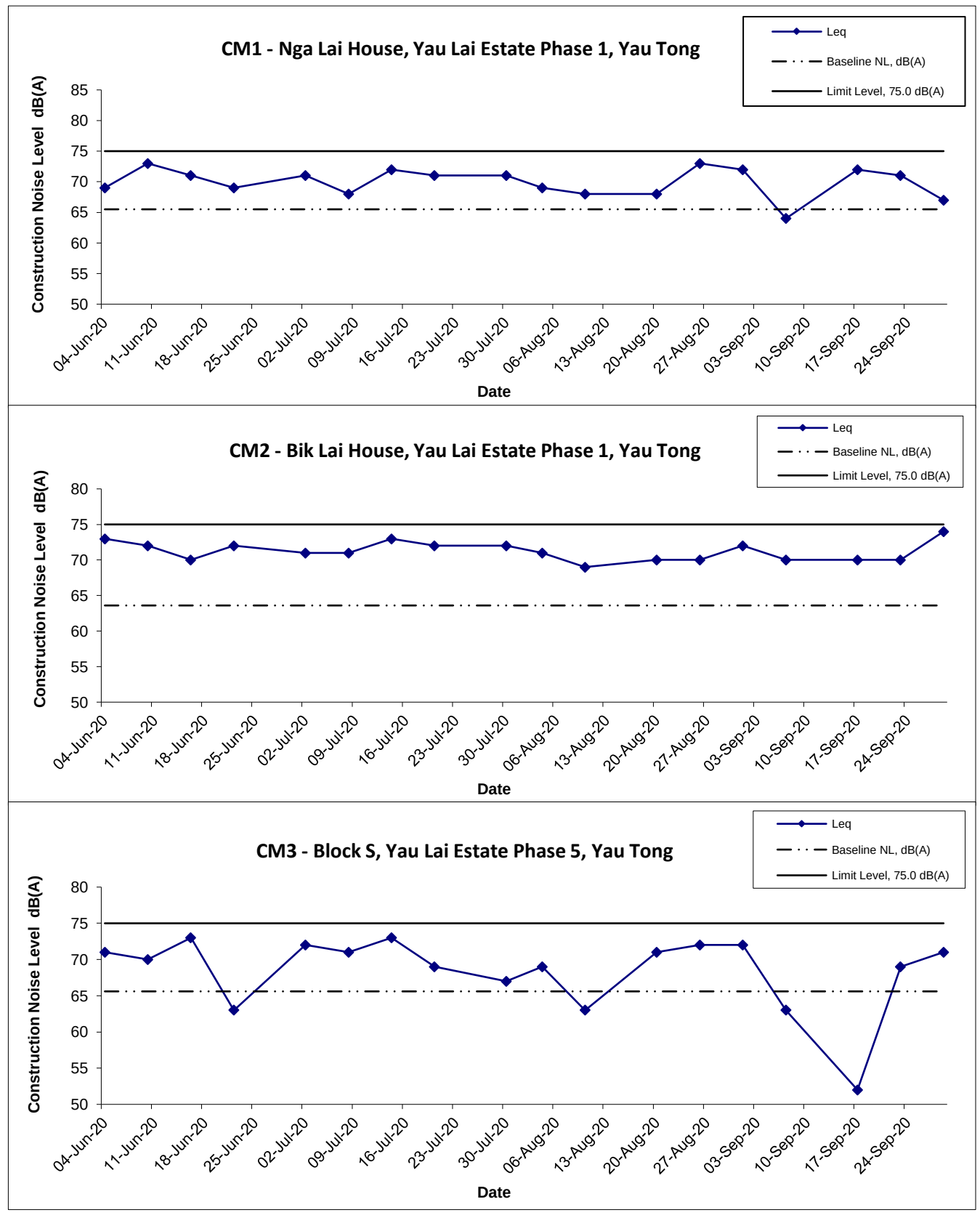
Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
1 Sep 2020	16:12	Cloudy	72.6	74.7	69.7	63.6	72
7 Sep 2020	16:00	Sunny	70.5	72.8	68.0	63.6	70
17 Sep 2020	15:30	Cloudy	70.8	72.9	68.3	63.6	70
23 Sep 2020	14:30	Cloudy	71.0	73.0	68.5	63.6	70
29 Sep 2020	10:38	Cloudy	74.2	77.0	71.3	63.6	74

Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
1 Sep 2020	15:27	Cloudy	72.8	75.0	69.8	65.6	72
7 Sep 2020	16:45	Sunny	67.4	69.0	65.7	65.6	63
17 Sep 2020	16:00	Cloudy	65.8	67.5	63.3	65.6	52
23 Sep 2020	13:50	Cloudy	70.6	72.6	67.0	65.6	69
29 Sep 2020	9:51	Cloudy	72.4	74.5	69.1	65.6	71

Location CM4 - Tin Hau Temple, Cha Kwo Ling							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
1 Sep 2020	13:34	Cloudy	68.2	71.4	65.3	62.0	67
7 Sep 2020	13:00	Sunny	67.5	71.4	63.6	62.0	66
17 Sep 2020	13:00	Cloudy	65.2	67.7	61.7	62.0	62
23 Sep 2020	10:05	Cloudy	66.1	68.2	62.8	62.0	64
29 Sep 2020	14:05	Cloudy	62.3	65.6	61.4	62.0	51

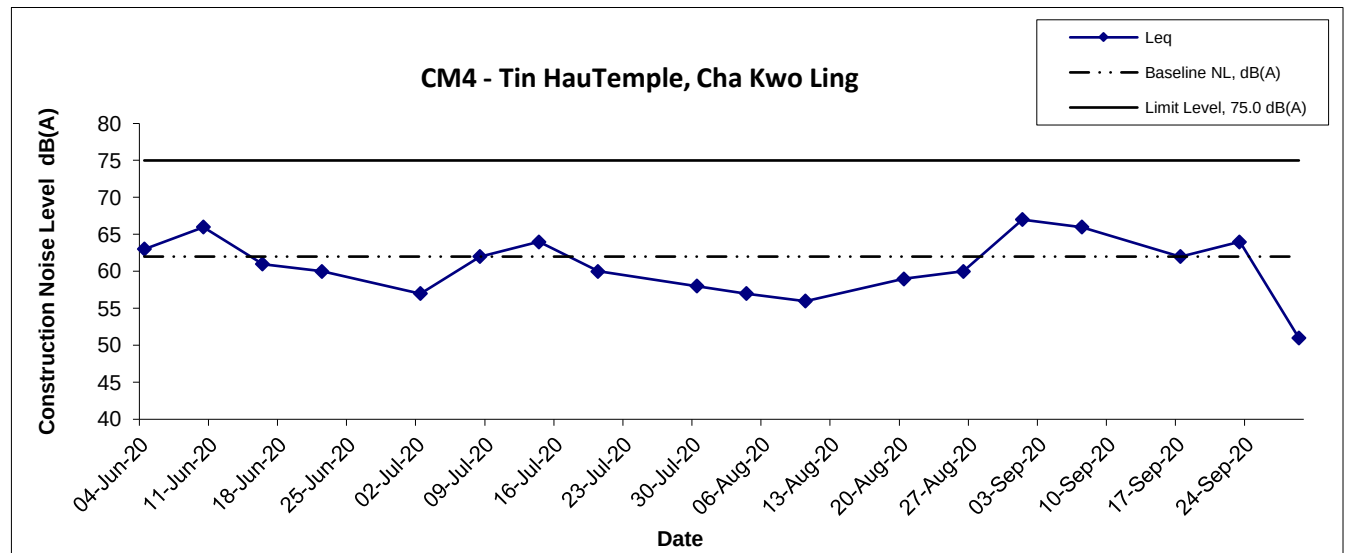
Location CM5 - CCC Kei Faat Primary School, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
1 Sep 2020	14:46	Cloudy	70.1	72.4	68.3	68.2	66
7 Sep 2020	14:00	Sunny	69.5	72.5	67.0	68.2	64
17 Sep 2020	14:00	Cloudy	63.6	68.2	58.5	68.2	64 Measured ≦ Baseline
23 Sep 2020	10:50	Cloudy	64.5	69.1	59.4	68.2	65 Measured ≦ Baseline
29 Sep 2020	13:07	Cloudy	68.7	69.9	65.9	68.2	59

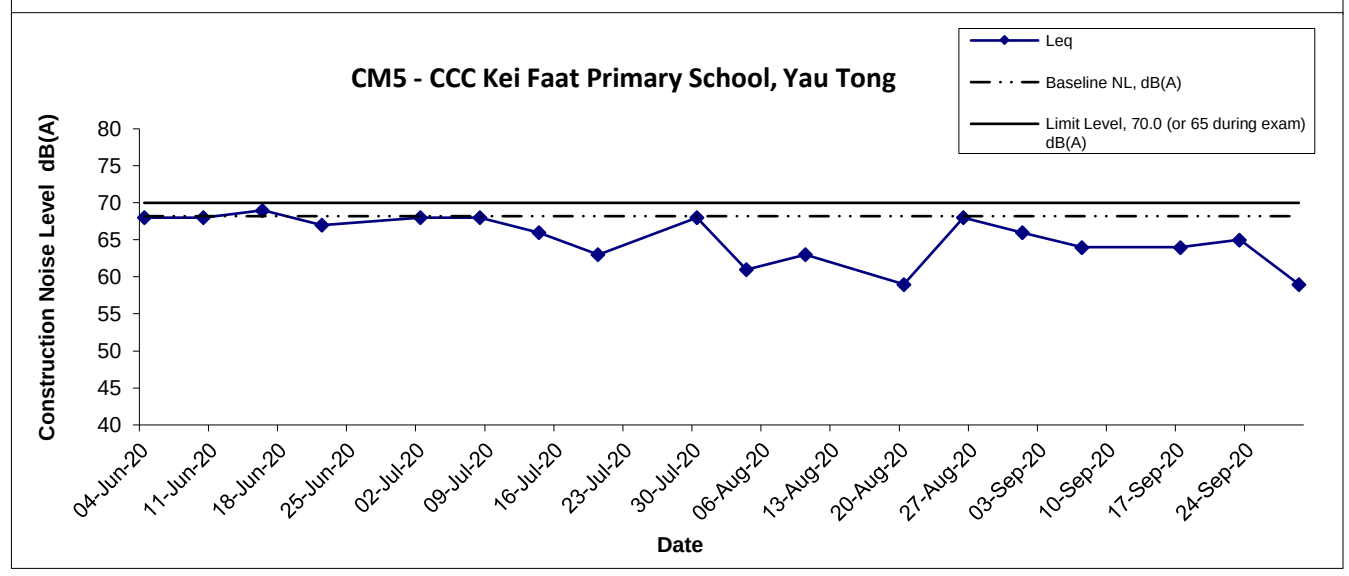
Noise Levels



Title: Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Sept 20	Project No. MA20003 Appendix G	CINOTECH

Noise Levels





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 3.13.

Title: Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S	Project No. MA20003	CINOTECH
	Date: Sept 20	Appendix G	

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)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	0.042	0.000	0.000	0.000	0.042	0.000	0.000	0.000	0.000	0.000	0.010
October											
November											
December											
Total	0.117	0.000	0.000	0.000	0.117	0.000	0.000	0.000	0.000	0.000	0.029

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

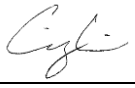
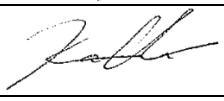
APPENDIX I
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	200903
Date	03 September 2020 (Thursday)
Time	09:30 – 11:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality • No environmental deficiency was identified during site inspection.. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection. ***H. Marine Ecology*** • No environmental deficiency was identified during site inspection. ***I. Others*** • No environmental deficiency was identified on previous inspection session (Ref No.: 200827)	

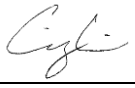
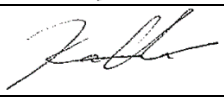
	Name	Signature	Date
Recorded by	Tim Lui		04 September 2020
Checked by	Karina Chan		04 September 2020

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	200910
Date	10 September 2020 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
200910 – R1	***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*** • Thinner should be stored properly and provided with drip tray. ***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.: 200903)	*E9*

	Name	Signature	Date
Recorded by	Tim Lui		10 September 2020
Checked by	Karina Chan		10 September 2020

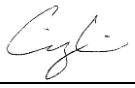
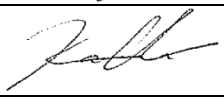
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200917
Date	17 September 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 • 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.: 200910), item (Ref No.: 200910 – R1) has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui		17 September 2020
Checked by	Karina Chan		17 September 2020

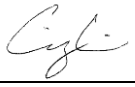
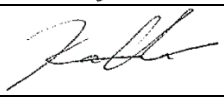
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200924
Date	24 September 2020 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
200924 – R1	***B. Water Quality*** • Leakage from the water pump of WetSep was observed.. ***C. Air Quality*** • No environmental deficiency was identified during site inspection. ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection.	*B1*
200924 – R2	***E. Waste/Chemical Management*** • Oil stain was found 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*** • No major environmental deficiency was identified during previous audit session (Ref No.:200917)	*E8*

	Name	Signature	Date
Recorded by	Tim Lui		24 September 2020
Checked by	Karina Chan		24 September 2020

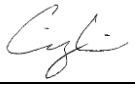
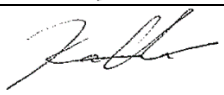
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	200930
Date	30 September 2020 (Wednesday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
200930 – O1	***B. Water Quality*** • No environmental deficiency was identified during site inspection. ***C. Air Quality*** • Black smoke emission from an excavator was observed. . ***D. Construction Noise Impact*** • No environmental deficiency was identified during site inspection. ***E. Waste/Chemical Management*** • No environmental deficiency was identified during site inspection.. ***F. Visual and Landscape*** • No environmental deficiency was identified during site inspection. ***G. Permits/Licences*** • No environmental deficiency was identified during site inspection. ***H. Marine Ecology*** • No environmental deficiency was identified during site inspection. ***I. Others*** • Follow-up on the previous audit session (Ref No.:200924), all items have been rectified.	*A19*

	Name	Signature	Date
Recorded by	Tim Lui		30 September 2020
Checked by	Karina Chan		30 September 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						
S3.8.1	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
S3.8.1	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
S3.8.7	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. • Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. • 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

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/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
Noise Impact (Construction 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 Impact (Construction Phase)						
S5.6.24	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

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S5.8.3	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 site shall not be removed before completion of all dredging and underwater filling works. - Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully 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

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S5.8.6	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
S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS
S5.8.8 S5.8.8 S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: • use of sediment traps; and • adequate maintenance of drainage systems to prevent flooding and overflow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix 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
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m^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
S5.8.13	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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S5.8.14	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
S5.8.22	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
S5.8.23	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 should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the 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
S5.8.28	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
S5.8.32	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
S5.8.33	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
S5.8.35	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
S5.8.36	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

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S5.8.37	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
S5.8.40	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
S5.8.41	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
S5.8.42	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
S6.8.6	**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 *Oulastrea crispata* , 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. <u>Post translocation Monitoring</u> • 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.	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A
S6.8.9 S6.8.10	**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						
S7.7.3	**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.					
S8.6.4	***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; • 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	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	**Good Site Practices and Waste Reduction Measures (con't)** The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.6	**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
S8.6.7	**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?
S8.6.8/ 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
S8.6.9/ 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 to the barge should be controlled to avoid splashing and overflowing of the sediment slurry 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 self-monitoring 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 containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.	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 container indicating the corresponding chemical characteristics of the 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
	General Refuse					

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 Heritage (Construction Phase)						
S9.6.4	**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
S9.6.4	**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 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 set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be 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?
S11.5.10 S11.5.25	• 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. • 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.	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD’s Landfill Gas Hazard Assessment Guidance Note Labour Department’s Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
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
S11.5.32	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
- ✕ 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 Noise Impact				
--	--	--		
Water Quality Impact				
--	--	--		
Ecological Impact				
--	--	--		
Fisheries Impact				
--	--	--		
Waste Management				
--	--	--		
Landscape and Visual Impact				
--	--	--		
Landfill Gas Hazards				
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APPENDIX L
EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action level being exceeded by one sampling	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER;	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	8. If exceedance stops, cease additional monitoring.			
Limit level being exceeded by one sampling	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor ,IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals;

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	3. Supervise the implementation of remedial measures.	4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

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

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

Reporting Month: September 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: September 2020

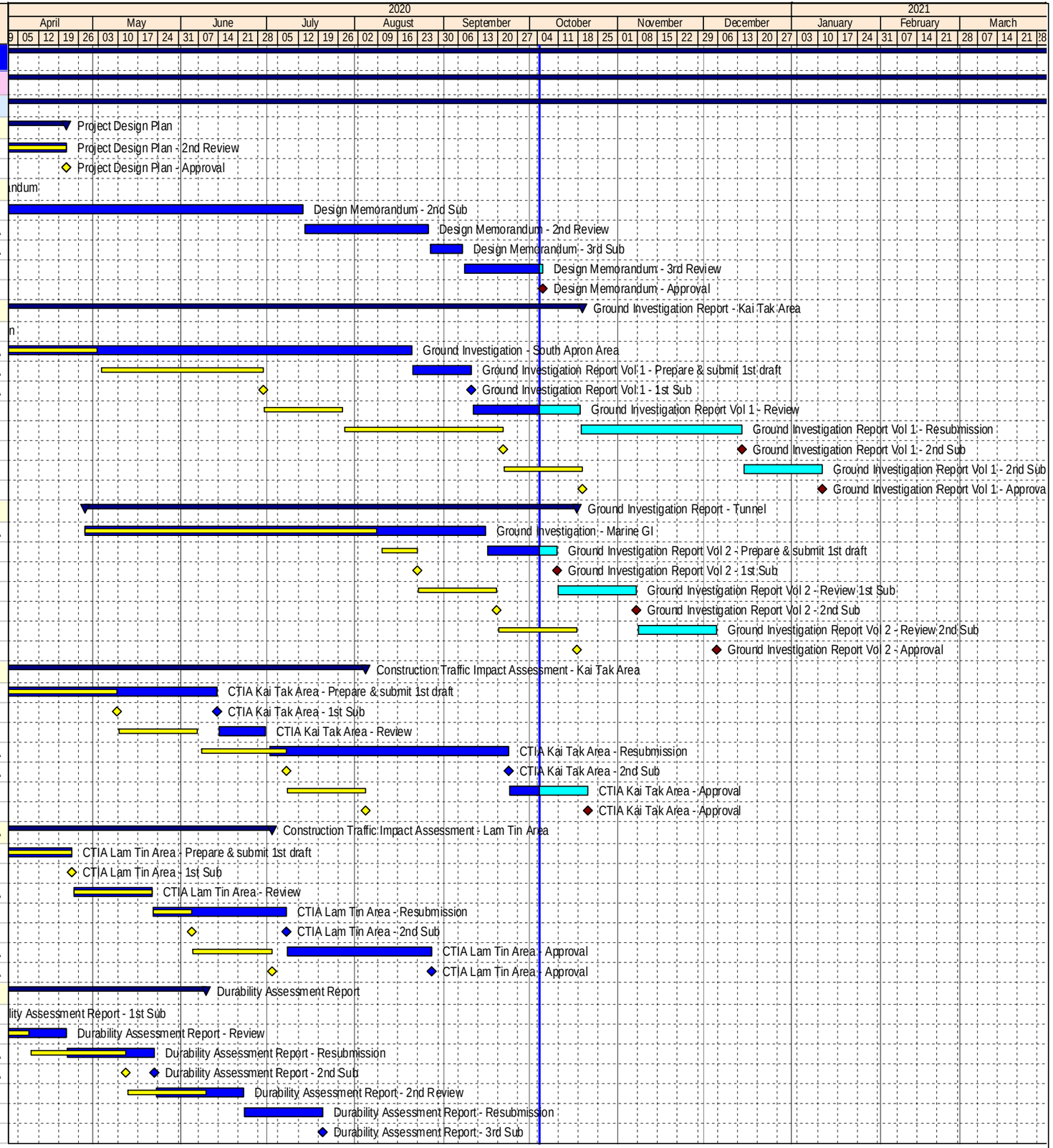
(A) Exceedance Report for Air Quality
(NIL in the reporting month)

(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
ED/2018/04 TRUNK ROAD T2	501	31-Oct-19	12-Jul-21	452	02-Jan-20 A	14-Jul-21
DESIGN SUBMISSION & APPROVAL	497	31-Oct-19	07-Jul-21	428	02-Jan-20 A	15-Jun-21
GENERAL	398	28-Dec-19	05-May-21	410	02-Jan-20 A	24-May-21
Project Design Plan	26	18-Mar-20	21-Apr-20	33	10-Mar-20 A	21-Apr-20 A
Project Design Plan - 2nd Review	35	18-Mar-20	21-Apr-20	43	10-Mar-20 A	21-Apr-20 A
Project Design Plan - Approval	0		21-Apr-20	0		21-Apr-20 A
Design Memorandum	36	17-Jan-20	02-Mar-20	213	16-Jan-20 A	05-Oct-20
Design Memorandum - 2nd Sub	12	17-Jan-20	03-Feb-20	143	16-Jan-20 A	13-Jul-20 A
Design Memorandum - 2nd Review	28	04-Feb-20	02-Mar-20	44	14-Jul-20 A	26-Aug-20 A
Design Memorandum - 3rd Sub	0			10	27-Aug-20 A	07-Sep-20 A
Design Memorandum - 3rd Review	0			28	08-Sep-20 A	05-Oct-20
Design Memorandum - Approval	0		02-Mar-20	0		05-Oct-20
Ground Investigation Report - Kai Tak Area	237	02-Jan-20	19-Oct-20	305	02-Jan-20 A	11-Jan-21
Ground Investigation - Mobilization	24	02-Jan-20	01-Feb-20	24	02-Jan-20 A	01-Feb-20 A
Ground Investigation - South Apron Area	72	03-Feb-20	02-May-20	164	03-Feb-20 A	20-Aug-20 A
Ground Investigation Report Vol 1 - Prepare & submit 1st draft	48	04-May-20	29-Jun-20	18	21-Aug-20 A	10-Sep-20 A
Ground Investigation Report Vol 1 - 1st Sub	0		29-Jun-20	0		10-Sep-20 A
Ground Investigation Report Vol 1 - Review	28	30-Jun-20	27-Jul-20	38	11-Sep-20 A	18-Oct-20
Ground Investigation Report Vol 1 - Resubmission	48	28-Jul-20	21-Sep-20	48	19-Oct-20	14-Dec-20
Ground Investigation Report Vol 1 - 2nd Sub	0		21-Sep-20	0		14-Dec-20
Ground Investigation Report Vol 1 - 2nd Sub Review	28	22-Sep-20	19-Oct-20	28	15-Dec-20	11-Jan-21
Ground Investigation Report Vol 1 - Approval	0		19-Oct-20	0		11-Jan-21
Ground Investigation Report - Tunnel	143	28-Apr-20	17-Oct-20	184	28-Apr-20 A	05-Dec-20
Ground Investigation - Marine GI	85	28-Apr-20	08-Aug-20	117	28-Apr-20 A	15-Sep-20 A
Ground Investigation Report Vol 2 - Prepare & submit 1st draft	12	10-Aug-20	22-Aug-20	20	16-Sep-20 A	10-Oct-20
Ground Investigation Report Vol 2 - 1st Sub	0		22-Aug-20	0		10-Oct-20
Ground Investigation Report Vol 2 - Review 1st Sub	28	23-Aug-20	19-Sep-20	28	11-Oct-20	07-Nov-20
Ground Investigation Report Vol 2 - 2nd Sub	0		19-Sep-20	0		07-Nov-20
Ground Investigation Report Vol 2 - Review 2nd Sub	28	20-Sep-20	17-Oct-20	28	08-Nov-20	05-Dec-20
Ground Investigation Report Vol 2 - Approval	0		17-Oct-20	0		05-Dec-20
Construction Traffic Impact Assessment - Kai Tak Area	162	16-Jan-20	04-Aug-20	197	24-Feb-20 A	21-Oct-20
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 - 1st Sub	0		09-May-20	0		13-Jun-20 A
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 - Resubmission	24	08-Jun-20	07-Jul-20	72	02-Jul-20 A	23-Sep-20 A
CTIA Kai Tak Area - 2nd Sub	0		07-Jul-20	0		23-Sep-20 A
CTIA Kai Tak Area - Approval	28	08-Jul-20	04-Aug-20	28	24-Sep-20 A	21-Oct-20
CTIA Kai Tak Area - Approval	0		04-Aug-20	0		21-Oct-20
Construction Traffic Impact Assessment - Lam Tin Area	86	16-Mar-20	02-Jul-20	134	16-Mar-20 A	27-Aug-20 A
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 - 1st Sub	0		23-Apr-20	0		23-Apr-20 A
CTIA Lam Tin Area - Review	28	24-Apr-20	21-May-20	28	24-Apr-20 A	21-May-20 A
CTIA Lam Tin Area - Resubmission	12	22-May-20	04-Jun-20	38	22-May-20 A	07-Jul-20 A
CTIA Lam Tin Area - 2nd Sub	0		04-Jun-20	0		07-Jul-20 A
CTIA Lam Tin Area - Approval	28	05-Jun-20	02-Jul-20	51	08-Jul-20 A	27-Aug-20 A
CTIA Lam Tin Area - Approval	0		02-Jul-20	0		27-Aug-20 A
Durability Assessment Report	71	11-Mar-20	09-Jun-20	167	17-Mar-20 A	09-Oct-20
Durability Assessment Report - 1st Sub	0		11-Mar-20	0		17-Mar-20 A
Durability Assessment Report - Review	28	12-Mar-20	08-Apr-20	35	18-Mar-20 A	21-Apr-20 A
Durability Assessment Report - Resubmission	24	09-Apr-20	12-May-20	25	22-Apr-20 A	22-May-20 A
Durability Assessment Report - 2nd Sub	0		12-May-20	0		22-May-20 A
Durability Assessment Report - 2nd Review	28	13-May-20	09-Jun-20	31	23-May-20 A	22-Jun-20 A
Durability Assessment Report - Resubmission	0			22	23-Jun-20 A	20-Jul-20 A
Durability Assessment Report - 3rd Sub	0			0		20-Jul-20 A



Milestone · Summary · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar

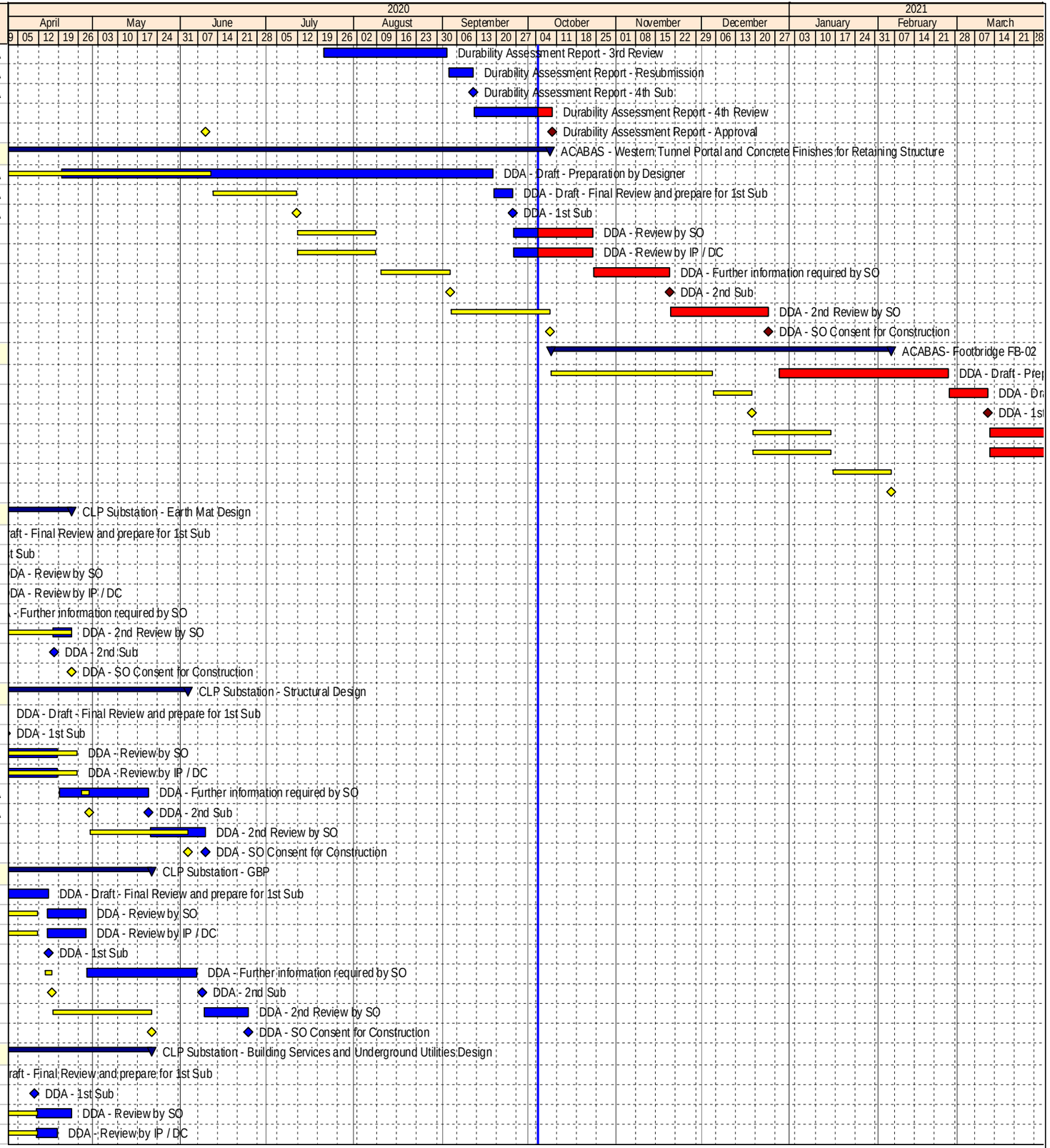
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
Durability Assessment Report - 3rd Review	0			44	21-Jul-20 A	02-Sep-20 A
Durability Assessment Report - Resubmission	0			8	03-Sep-20 A	11-Sep-20 A
Durability Assessment Report - 4th Sub	0			0		11-Sep-20 A
Durability Assessment Report - 4th Review	0			28	12-Sep-20 A	09-Oct-20
Durability Assessment Report - Approval	0		09-Jun-20	0		09-Oct-20
ACABAS - Western Tunnel Portal and Concrete Finishes fc	170	13-Mar-20	08-Oct-20	207	20-Apr-20 A	24-Dec-20
DDA - Draft - Preparation by Designer	72	13-Mar-20	11-Jun-20	127	20-Apr-20 A	18-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	12-Jun-20	11-Jul-20	6	19-Sep-20 A	25-Sep-20 A
DDA - 1st Sub	0		11-Jul-20	0		25-Sep-20 A
DDA - Review by SO	28	12-Jul-20	08-Aug-20	28	26-Sep-20 A	23-Oct-20
DDA - Review by IP / DC	28	12-Jul-20	08-Aug-20	28	26-Sep-20 A	23-Oct-20
DDA - Further information required by SO	22	10-Aug-20	03-Sep-20	22	24-Oct-20	19-Nov-20
DDA - 2nd Sub	0		03-Sep-20	0		19-Nov-20
DDA - 2nd Review by SO	35	04-Sep-20	08-Oct-20	35	20-Nov-20	24-Dec-20
DDA - SO Consent for Construction	0		08-Oct-20	0		24-Dec-20
ACABAS- Footbridge FB-02	99	09-Oct-20	05-Feb-21	98	28-Dec-20	29-Apr-21
DDA - Draft - Preparation by Designer	48	09-Oct-20	04-Dec-20	48	28-Dec-20	25-Feb-21
DDA - Draft - Final Review and prepare for 1st Sub	12	05-Dec-20	18-Dec-20	12	26-Feb-21	11-Mar-21
DDA - 1st Sub	0		18-Dec-20	0		11-Mar-21
DDA - Review by SO	28	19-Dec-20	15-Jan-21	28	12-Mar-21	08-Apr-21
DDA - Review by IP / DC	28	19-Dec-20	15-Jan-21	28	12-Mar-21	08-Apr-21
DDA - Further information required by SO	18	16-Jan-21	05-Feb-21	18	09-Apr-21	29-Apr-21
DDA - 2nd Sub	0		05-Feb-21	0		29-Apr-21
CLP Substation - Earth Mat Design	69	30-Jan-20	23-Apr-20	32	13-Mar-20 A	23-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	30-Jan-20	19-Feb-20	1	13-Mar-20 A	13-Mar-20 A
DDA - 1st Sub	0		19-Feb-20	0		13-Mar-20 A
DDA - Review by SO	28	20-Feb-20	18-Mar-20	13	14-Mar-20 A	26-Mar-20 A
DDA - Review by IP / DC	28	20-Feb-20	18-Mar-20	13	14-Mar-20 A	26-Mar-20 A
DDA - Further information required by SO	1		19-Mar-20	0		21-Mar-20 A
DDA - 2nd Review by SO	35	20-Mar-20	23-Apr-20	7	17-Apr-20 A	23-Apr-20 A
DDA - 2nd Sub	0		19-Mar-20	0		17-Apr-20 A
DDA - SO Consent for Construction	0		23-Apr-20	0		23-Apr-20 A
CLP Substation - Structural Design	72	05-Mar-20	03-Jun-20	58	27-Mar-20 A	09-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	21	05-Mar-20	28-Mar-20	4	27-Mar-20 A	31-Mar-20 A
DDA - 1st Sub	0		28-Mar-20	0		31-Mar-20 A
DDA - Review by SO	28	29-Mar-20	25-Apr-20	18	01-Apr-20 A	18-Apr-20 A
DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20	18	01-Apr-20 A	18-Apr-20 A
DDA - Further information required by SO	3	27-Apr-20	29-Apr-20	25	19-Apr-20 A	20-May-20 A
DDA - 2nd Sub	0		29-Apr-20	0		20-May-20 A
DDA - 2nd Review by SO	35	30-Apr-20	03-Jun-20	20	21-May-20 A	09-Jun-20 A
DDA - SO Consent for Construction	0		03-Jun-20	0		09-Jun-20 A
CLP Substation - GBP	73	20-Feb-20	21-May-20	71	27-Mar-20 A	24-Jun-20 A
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 - Review by SO	28	15-Mar-20	11-Apr-20	14	15-Apr-20 A	28-Apr-20 A
DDA - Review by IP / DC	28	15-Mar-20	11-Apr-20	14	15-Apr-20 A	28-Apr-20 A
DDA - 1st Sub	0		14-Mar-20	0		15-Apr-20 A
DDA - Further information required by SO	3	14-Apr-20	16-Apr-20	32	29-Apr-20 A	06-Jun-20 A
DDA - 2nd Sub	0		16-Apr-20	0		08-Jun-20 A
DDA - 2nd Review by SO	35	17-Apr-20	21-May-20	16	09-Jun-20 A	24-Jun-20 A
DDA - SO Consent for Construction	0		21-May-20	0		24-Jun-20 A
CLP Substation - Building Services and Underground Utiliti	73	20-Feb-20	21-May-20	205	22-Feb-20 A	02-Nov-20
DDA - Draft - Final Review and prepare for 1st Sub	21	20-Feb-20	14-Mar-20	0	22-Feb-20 A	22-Feb-20 A
DDA - 1st Sub	0		14-Mar-20	0		10-Apr-20 A
DDA - Review by SO	28	15-Mar-20	11-Apr-20	13	11-Apr-20 A	23-Apr-20 A
DDA - Review by IP / DC	28	15-Mar-20	11-Apr-20	8	11-Apr-20 A	18-Apr-20 A



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

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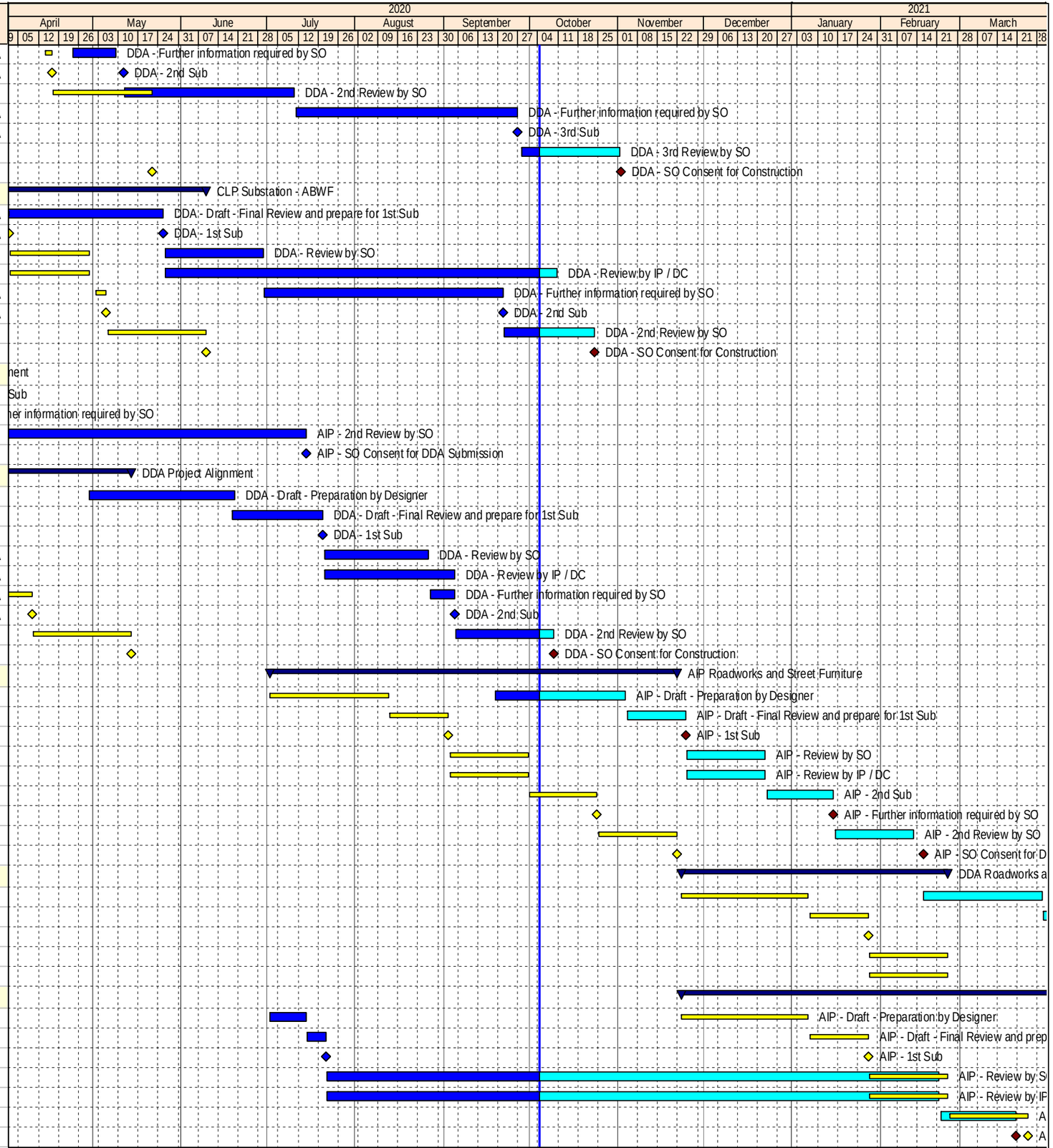
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Further information required by SO	3	14-Apr-20	16-Apr-20	11	24-Apr-20 A	09-May-20 A
DDA - 2nd Sub	0		16-Apr-20	0		11-May-20 A
DDA - 2nd Review by SO	35	17-Apr-20	21-May-20	60	12-May-20 A	10-Jul-20 A
DDA - Further information required by SO	0			67	11-Jul-20 A	26-Sep-20 A
DDA - 3rd Sub	0			0		26-Sep-20 A
DDA - 3rd Review by SO	0			35	28-Sep-20 A	01-Nov-20
DDA - SO Consent for Construction	0		21-May-20	0		02-Nov-20
CLP Substation - ABWF	89	20-Feb-20	09-Jun-20	171	27-Mar-20 A	23-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	36	20-Feb-20	01-Apr-20	45	27-Mar-20 A	25-May-20 A
DDA - 1st Sub	0		01-Apr-20	0		25-May-20 A
DDA - Review by SO	28	02-Apr-20	29-Apr-20	35	26-May-20 A	29-Jun-20 A
DDA - Review by IP / DC	28	02-Apr-20	29-Apr-20	138	26-May-20 A	10-Oct-20
DDA - Further information required by SO	3	02-May-20	05-May-20	71	30-Jun-20 A	21-Sep-20 A
DDA - 2nd Sub	0		05-May-20	0		21-Sep-20 A
DDA - 2nd Review by SO	35	06-May-20	09-Jun-20	32	22-Sep-20 A	23-Oct-20
DDA - SO Consent for Construction	0		09-Jun-20	0		23-Oct-20
AIP Project Alignment	26	25-Jan-20	27-Feb-20	152	07-Jan-20 A	14-Jul-20 A
AIP - 2nd Sub	6	25-Jan-20	30-Jan-20	65	07-Jan-20 A	11-Mar-20 A
AIP - Further information required by SO	0		30-Jan-20	0		11-Mar-20 A
AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	125	12-Mar-20 A	14-Jul-20 A
AIP - SO Consent for DDA Submission	0		27-Feb-20	0		14-Jul-20 A
DDA Project Alignment	109	28-Dec-19	14-May-20	134	30-Apr-20 A	09-Oct-20
DDA - Draft - Preparation by Designer	36	28-Dec-19	12-Feb-20	42	30-Apr-20 A	19-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	13-Feb-20	26-Feb-20	25	19-Jun-20 A	20-Jul-20 A
DDA - 1st Sub	0		26-Feb-20	0		20-Jul-20 A
DDA - Review by SO	28	27-Feb-20	25-Mar-20	37	21-Jul-20 A	26-Aug-20 A
DDA - Review by IP / DC	28	27-Feb-20	25-Mar-20	46	21-Jul-20 A	04-Sep-20 A
DDA - Further information required by SO	12	26-Mar-20	09-Apr-20	8	27-Aug-20 A	04-Sep-20 A
DDA - 2nd Sub	0		09-Apr-20	0		04-Sep-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	35	05-Sep-20 A	09-Oct-20
DDA - SO Consent for Construction	0		14-May-20	0		09-Oct-20
AIP Roadworks and Street Furniture	120	02-Jul-20	21-Nov-20	119	19-Sep-20 A	16-Feb-21
AIP - Draft - Preparation by Designer	36	02-Jul-20	12-Aug-20	36	19-Sep-20 A	03-Nov-20
AIP - Draft - Final Review and prepare for 1st Sub	18	13-Aug-20	02-Sep-20	18	04-Nov-20	24-Nov-20
AIP - 1st Sub	0		02-Sep-20	0		24-Nov-20
AIP - Review by SO	28	03-Sep-20	30-Sep-20	28	25-Nov-20	22-Dec-20
AIP - Review by IP / DC	28	03-Sep-20	30-Sep-20	28	25-Nov-20	22-Dec-20
AIP - 2nd Sub	24	01-Oct-20	24-Oct-20	24	23-Dec-20	15-Jan-21
AIP - Further information required by SO	0		24-Oct-20	0		15-Jan-21
AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	28	16-Jan-21	12-Feb-21
AIP - SO Consent for DDA Submission	0		21-Nov-20	0		16-Feb-21
DDA Roadworks and Street Furniture	75	23-Nov-20	24-Feb-21	76	16-Feb-21	21-May-21
DDA - Draft - Preparation by Designer	36	23-Nov-20	06-Jan-21	36	16-Feb-21	29-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	18	07-Jan-21	27-Jan-21	18	30-Mar-21	23-Apr-21
DDA - 1st Sub	0		27-Jan-21	0		23-Apr-21
DDA - Review by SO	28	28-Jan-21	24-Feb-21	28	24-Apr-21	21-May-21
DDA - Review by IP / DC	28	28-Jan-21	24-Feb-21	28	24-Apr-21	21-May-21
AIP Traffic Sign, Road Marking & Sign Gantry	119	23-Nov-20	21-Apr-21	236	02-Jul-20 A	17-Apr-21
AIP - Draft - Preparation by Designer	36	23-Nov-20	06-Jan-21	11	02-Jul-20 A	14-Jul-20 A
AIP - Draft - Final Review and prepare for 1st Sub	18	07-Jan-21	27-Jan-21	6	15-Jul-20 A	21-Jul-20 A
AIP - 1st Sub	0		27-Jan-21	0		21-Jul-20 A
AIP - Review by SO	28	28-Jan-21	24-Feb-21	215	22-Jul-20 A	21-Feb-21
AIP - Review by IP / DC	28	28-Jan-21	24-Feb-21	215	22-Jul-20 A	21-Feb-21
AIP - Further information required by SO	24	25-Feb-21	24-Mar-21	24	22-Feb-21	20-Mar-21
AIP - 2nd Sub	0		24-Mar-21	0		20-Mar-21



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Actual Work
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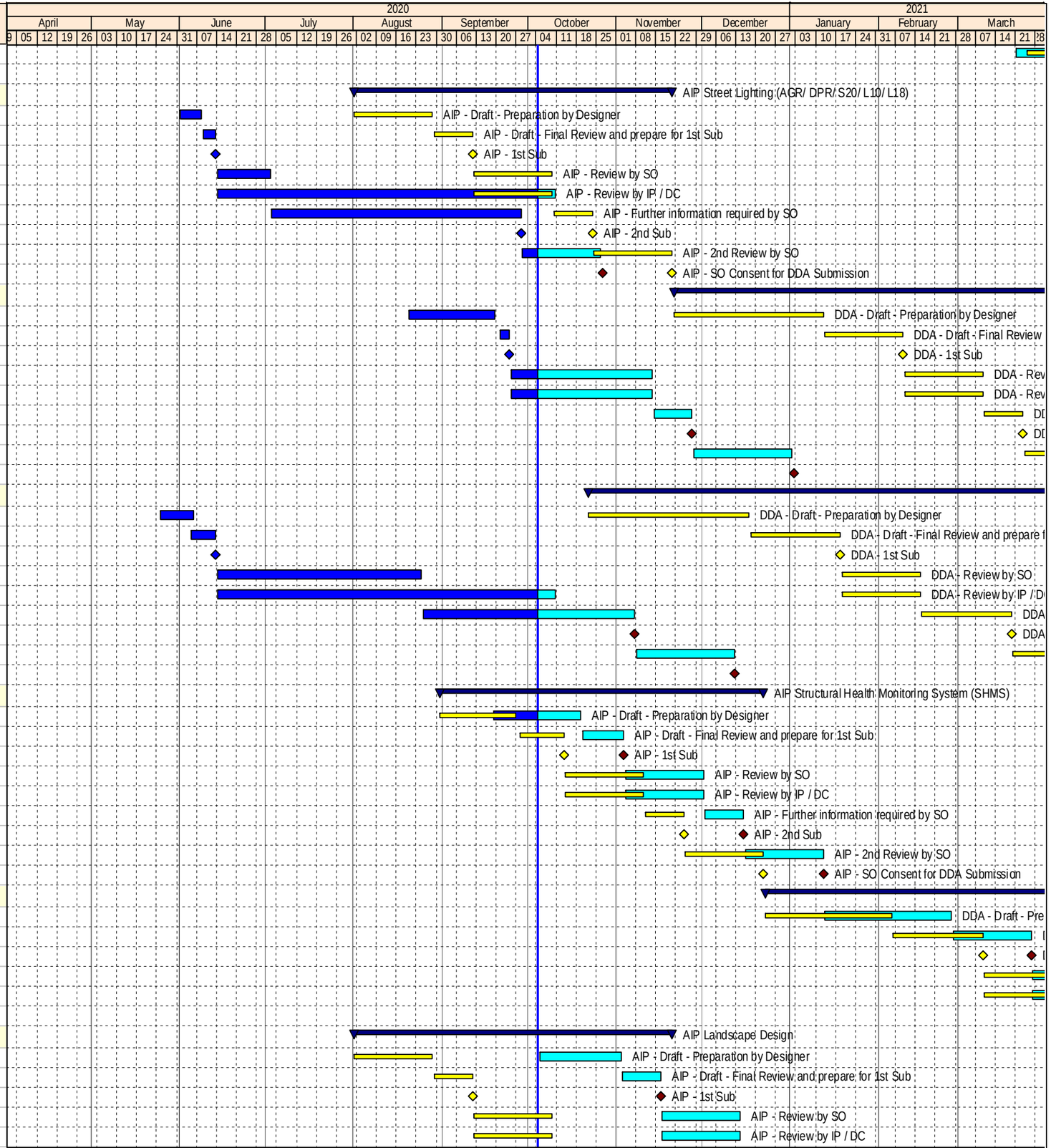
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - 2nd Review by SO	28	25-Mar-21	21-Apr-21	28	21-Mar-21	17-Apr-21
AIP - SO Consent for DDA Submission	0		21-Apr-21	0		17-Apr-21
AIP Street Lighting (AGR/ DPR/ S20/ L10/ L18)	93	01-Aug-20	20-Nov-20	122	01-Jun-20 A	27-Oct-20
AIP - Draft - Preparation by Designer	24	01-Aug-20	28-Aug-20	7	01-Jun-20 A	08-Jun-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20	5	09-Jun-20 A	13-Jun-20 A
AIP - 1st Sub	0		11-Sep-20	0		13-Jun-20 A
AIP - Review by SO	28	12-Sep-20	09-Oct-20	19	14-Jun-20 A	02-Jul-20 A
AIP - Review by IP / DC	28	12-Sep-20	09-Oct-20	119	14-Jun-20 A	10-Oct-20
AIP - Further information required by SO	12	10-Oct-20	23-Oct-20	75	03-Jul-20 A	28-Sep-20 A
AIP - 2nd Sub	0		23-Oct-20	0		28-Sep-20 A
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	29-Sep-20 A	26-Oct-20
AIP - SO Consent for DDA Submission	0		20-Nov-20	0		27-Oct-20
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	125	21-Nov-20	27-Apr-21	110	20-Aug-20 A	02-Jan-21
DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21	27	20-Aug-20 A	19-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	4	21-Sep-20 A	24-Sep-20 A
DDA - 1st Sub	0		09-Feb-21	0		24-Sep-20 A
DDA - Review by SO	28	10-Feb-21	09-Mar-21	50	25-Sep-20 A	13-Nov-20
DDA - Review by IP / DC	28	10-Feb-21	09-Mar-21	50	25-Sep-20 A	13-Nov-20
DDA - Further information required by SO	12	10-Mar-21	23-Mar-21	12	14-Nov-20	27-Nov-20
DDA - 2nd Sub	0		23-Mar-21	0		27-Nov-20
DDA - 2nd Review by SO	35	24-Mar-21	27-Apr-21	35	28-Nov-20	01-Jan-21
DDA - SO Consent for DDA Submission	0		27-Apr-21	0		02-Jan-21
DDA Permanent Utility Design	147	22-Oct-20	23-Apr-21	169	25-May-20 A	12-Dec-20
DDA - Draft - Preparation by Designer	48	22-Oct-20	17-Dec-20	11	25-May-20 A	05-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	18-Dec-20	18-Jan-21	8	05-Jun-20 A	13-Jun-20 A
DDA - 1st Sub	0		18-Jan-21	0		13-Jun-20 A
DDA - Review by SO	28	19-Jan-21	15-Feb-21	72	14-Jun-20 A	24-Aug-20 A
DDA - Review by IP / DC	28	19-Jan-21	15-Feb-21	119	14-Jun-20 A	10-Oct-20
DDA - Further information required by SO	28	16-Feb-21	19-Mar-21	62	25-Aug-20 A	07-Nov-20
DDA - 2nd Sub	0		19-Mar-21	0		07-Nov-20
DDA - 2nd Review by SO	35	20-Mar-21	23-Apr-21	35	08-Nov-20	12-Dec-20
DDA - SO Consent for Construction	0		23-Apr-21	0		12-Dec-20
AIP Structural Health Monitoring System (SHMS)	95	31-Aug-20	22-Dec-20	93	19-Sep-20 A	12-Jan-21
AIP - Draft - Preparation by Designer	24	31-Aug-20	26-Sep-20	24	19-Sep-20 A	19-Oct-20
AIP - Draft - Final Review and prepare for 1st Sub	12	28-Sep-20	13-Oct-20	12	20-Oct-20	03-Nov-20
AIP - 1st Sub	0		13-Oct-20	0		03-Nov-20
AIP - Review by SO	28	14-Oct-20	10-Nov-20	28	04-Nov-20	01-Dec-20
AIP - Review by IP / DC	28	14-Oct-20	10-Nov-20	28	04-Nov-20	01-Dec-20
AIP - Further information required by SO	12	11-Nov-20	24-Nov-20	12	02-Dec-20	15-Dec-20
AIP - 2nd Sub	0		24-Nov-20	0		15-Dec-20
AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	16-Dec-20	12-Jan-21
AIP - SO Consent for DDA Submission	0		22-Dec-20	0		12-Jan-21
DDA Structural Health Monitoring System (SHMS)	104	23-Dec-20	05-May-21	104	13-Jan-21	24-May-21
DDA - Draft - Preparation by Designer	36	23-Dec-20	05-Feb-21	36	13-Jan-21	26-Feb-21
DDA - Draft - Final Review and prepare for 1st Sub	24	06-Feb-21	09-Mar-21	24	27-Feb-21	26-Mar-21
DDA - 1st Sub	0		09-Mar-21	0		26-Mar-21
DDA - Review by SO	28	10-Mar-21	06-Apr-21	28	27-Mar-21	23-Apr-21
DDA - Review by IP / DC	28	10-Mar-21	06-Apr-21	28	27-Mar-21	23-Apr-21
DDA - Further information required by SO	24	07-Apr-21	05-May-21	24	24-Apr-21	24-May-21
AIP Landscape Design	93	01-Aug-20	20-Nov-20	95	05-Oct-20	27-Jan-21
AIP - Draft - Preparation by Designer	24	01-Aug-20	28-Aug-20	24	05-Oct-20*	02-Nov-20
AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20	12	03-Nov-20	16-Nov-20
AIP - 1st Sub	0		11-Sep-20	0		16-Nov-20
AIP - Review by SO	28	12-Sep-20	09-Oct-20	28	17-Nov-20	14-Dec-20
AIP - Review by IP / DC	28	12-Sep-20	09-Oct-20	28	17-Nov-20	14-Dec-20



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

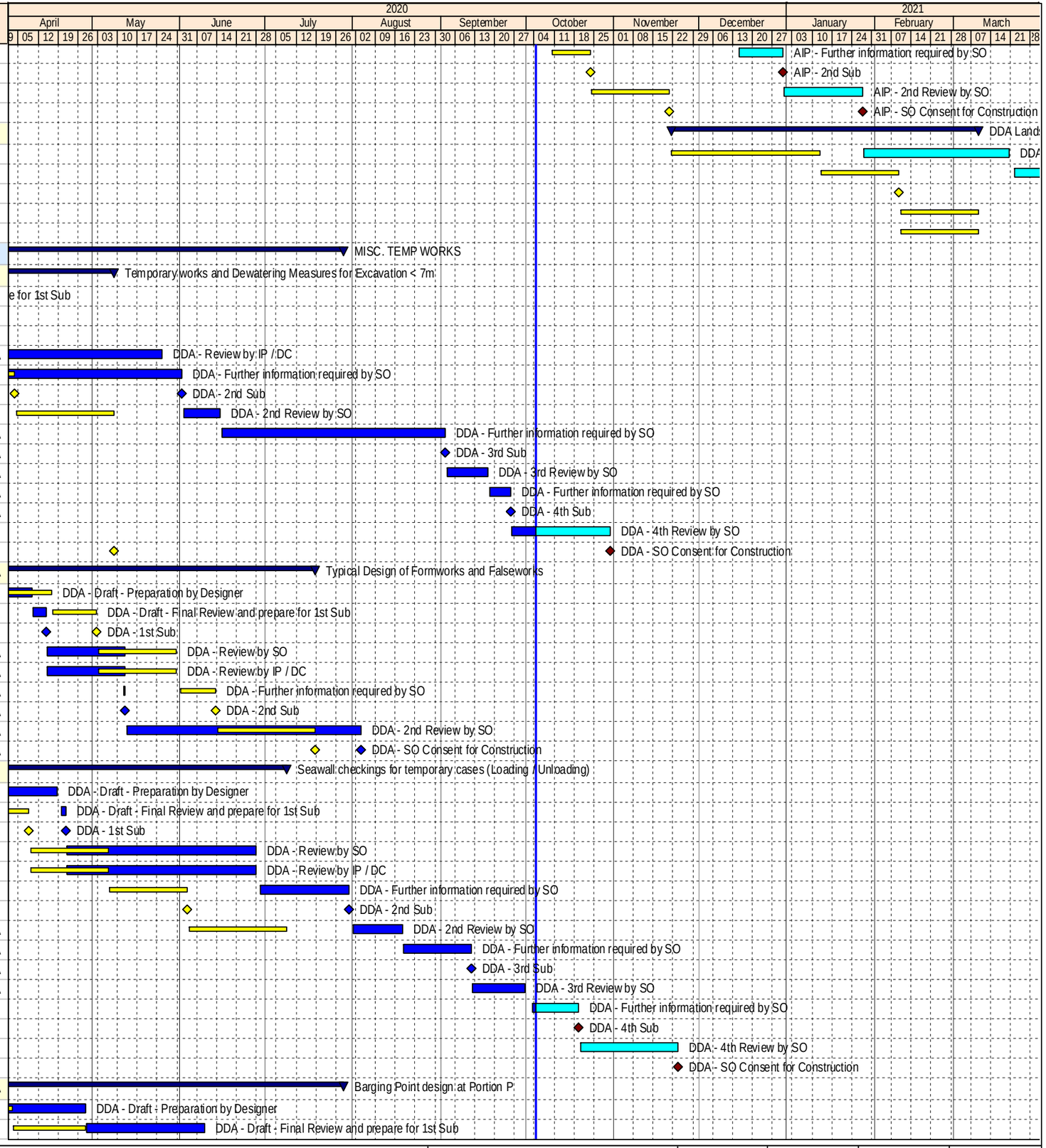
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
AIP - Further information required by SO	12	10-Oct-20	23-Oct-20	12	15-Dec-20	30-Dec-20
AIP - 2nd Sub	0		23-Oct-20	0		30-Dec-20
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	31-Dec-20	27-Jan-21
AIP - SO Consent for Construction	0		20-Nov-20	0		27-Jan-21
DDA Landscape Design	87	21-Nov-20	09-Mar-21	88	28-Jan-21	20-May-21
DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21	42	28-Jan-21	20-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	24	22-Mar-21	22-Apr-21
DDA - 1st Sub	0		09-Feb-21	0		22-Apr-21
DDA - Review by SO	28	10-Feb-21	09-Mar-21	28	23-Apr-21	20-May-21
DDA - Review by IP / DC	28	10-Feb-21	09-Mar-21	28	23-Apr-21	20-May-21
MISC. TEMP WORKS	160	11-Jan-20	28-Jul-20	256	14-Jan-20 A	23-Nov-20
Temporary works and Dewatering Measures for Excavatic	93	11-Jan-20	08-May-20	236	14-Jan-20 A	30-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	12	11-Jan-20	24-Jan-20	3	14-Jan-20 A	16-Jan-20 A
DDA - 1st Sub	0		24-Jan-20	0		16-Jan-20 A
DDA - Review by SO	28	25-Jan-20	21-Feb-20	7	17-Jan-20 A	23-Jan-20 A
DDA - Review by IP / DC	28	25-Jan-20	21-Feb-20	130	17-Jan-20 A	25-May-20 A
DDA - Further information required by SO	36	22-Feb-20	03-Apr-20	102	24-Jan-20 A	01-Jun-20 A
DDA - 2nd Sub	0		03-Apr-20	0		01-Jun-20 A
DDA - 2nd Review by SO	35	04-Apr-20	08-May-20	13	02-Jun-20 A	15-Jun-20 A
DDA - Further information required by SO	0			66	16-Jun-20 A	02-Sep-20 A
DDA - 3rd Sub	0			0		02-Sep-20 A
DDA - 3rd Review by SO	0			15	03-Sep-20 A	17-Sep-20 A
DDA - Further information required by SO	0			7	18-Sep-20 A	25-Sep-20 A
DDA - 4th Sub	0			0		25-Sep-20 A
DDA - 4th Review by SO	0			35	26-Sep-20 A	30-Oct-20
DDA - SO Consent for Construction	0		08-May-20	0		30-Oct-20
Typical Design of Formworks and Falseworks	100	16-Mar-20	18-Jul-20	113	16-Mar-20 A	03-Aug-20 A
DDA - Draft - Preparation by Designer	24	16-Mar-20	16-Apr-20	21	16-Mar-20 A	09-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	17-Apr-20	02-May-20	1	10-Apr-20 A	14-Apr-20 A
DDA - 1st Sub	0		02-May-20	0		14-Apr-20 A
DDA - Review by SO	28	03-May-20	30-May-20	28	15-Apr-20 A	12-May-20 A
DDA - Review by IP / DC	28	03-May-20	30-May-20	28	15-Apr-20 A	12-May-20 A
DDA - Further information required by SO	12	01-Jun-20	13-Jun-20	1	12-May-20 A	12-May-20 A
DDA - 2nd Sub	0		13-Jun-20	0		12-May-20 A
DDA - 2nd Review by SO	35	14-Jun-20	18-Jul-20	83	13-May-20 A	03-Aug-20 A
DDA - SO Consent for Construction	0		18-Jul-20	0		03-Aug-20 A
Seawall checkings for temporary cases (Loading / Unloadi	123	07-Feb-20	08-Jul-20	238	07-Feb-20 A	23-Nov-20
DDA - Draft - Preparation by Designer	36	07-Feb-20	19-Mar-20	58	07-Feb-20 A	18-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	16	20-Mar-20	08-Apr-20	2	20-Apr-20 A	21-Apr-20 A
DDA - 1st Sub	0		08-Apr-20	0		21-Apr-20 A
DDA - Review by SO	28	09-Apr-20	06-May-20	67	22-Apr-20 A	27-Jun-20 A
DDA - Review by IP / DC	28	09-Apr-20	06-May-20	67	22-Apr-20 A	27-Jun-20 A
DDA - Further information required by SO	24	07-May-20	03-Jun-20	27	29-Jun-20 A	30-Jul-20 A
DDA - 2nd Sub	0		03-Jun-20	0		30-Jul-20 A
DDA - 2nd Review by SO	35	04-Jun-20	08-Jul-20	18	01-Aug-20 A	18-Aug-20 A
DDA - Further information required by SO	0			21	19-Aug-20 A	11-Sep-20 A
DDA - 3rd Sub	0			0		11-Sep-20 A
DDA - 3rd Review by SO	0			19	12-Sep-20 A	30-Sep-20 A
DDA - Further information required by SO	0			14	03-Oct-20 A	19-Oct-20
DDA - 4th Sub	0			0		19-Oct-20
DDA - 4th Review by SO	0			35	20-Oct-20	23-Nov-20
DDA - SO Consent for Construction	0			0		23-Nov-20
Barging Point design at Portion P	140	07-Feb-20	28-Jul-20	165	07-Feb-20 A	26-Aug-20 A
DDA - Draft - Preparation by Designer	48	07-Feb-20	02-Apr-20	66	07-Feb-20 A	28-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	03-Apr-20	28-Apr-20	34	29-Apr-20 A	09-Jun-20 A



Milestone
Planned Bar
Critical Activity
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Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

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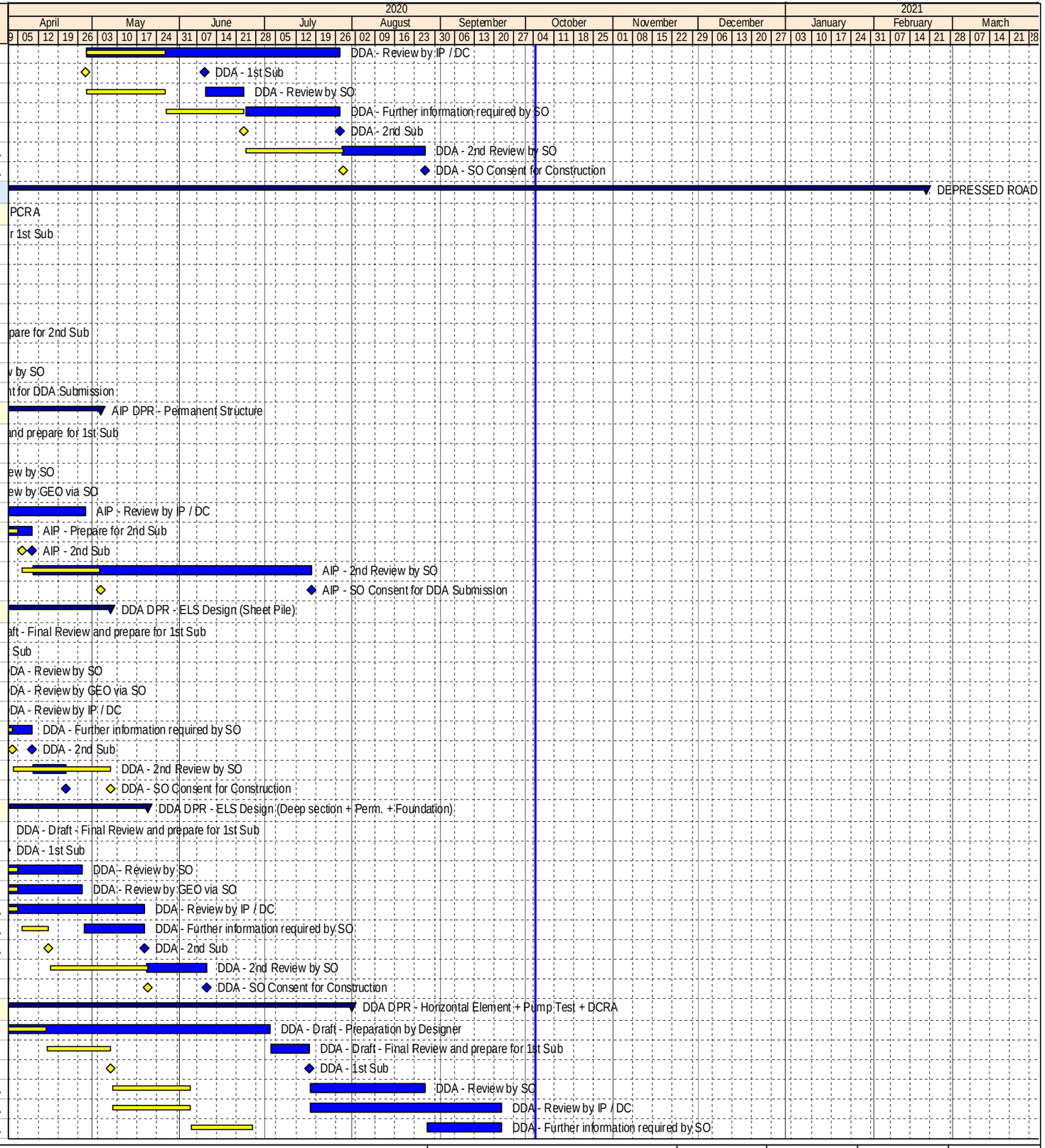
Date	Revision	Checked	Approved
05-Nov-19	00V0	WYu	
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Review by IP / DC	28	29-Apr-20	26-May-20	90	29-Apr-20 A	27-Jul-20 A
DDA - 1st Sub	0		28-Apr-20	0		09-Jun-20 A
DDA - Review by SO	28	29-Apr-20	26-May-20	14	10-Jun-20 A	23-Jun-20 A
DDA - Further information required by SO	24	27-May-20	23-Jun-20	27	24-Jun-20 A	27-Jul-20 A
DDA - 2nd Sub	0		23-Jun-20	0		27-Jul-20 A
DDA - 2nd Review by SO	35	24-Jun-20	28-Jul-20	30	28-Jul-20 A	26-Aug-20 A
DDA - SO Consent for Construction	0		28-Jul-20	0		26-Aug-20 A
DEPRESSED ROAD [DPR]	354	09-Dec-19	19-Feb-21	376	19-Jan-20 A	29-Apr-21
AIP DPR - ELS & PCRA	64	09-Dec-19	27-Feb-20	33	19-Jan-20 A	29-Feb-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	09-Dec-19	21-Dec-19	1	19-Jan-20 A	20-Jan-20 A
AIP - 1st Sub	0		21-Dec-19	0		20-Jan-20 A
AIP - Review by SO	28	22-Dec-19	18-Jan-20	14	21-Jan-20 A	03-Feb-20 A
AIP - Review by GEO via SO	28	22-Dec-19	18-Jan-20	14	21-Jan-20 A	03-Feb-20 A
AIP - Review by IP / DC	28	22-Dec-19	18-Jan-20	14	21-Jan-20 A	03-Feb-20 A
AIP - Update & prepare for 2nd Sub	7	20-Jan-20	30-Jan-20	19	04-Feb-20 A	25-Feb-20 A
AIP - 2nd Sub	0		30-Jan-20	0		25-Feb-20 A
AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	4	26-Feb-20 A	29-Feb-20 A
AIP - SO Consent for DDA Submission	0		27-Feb-20	0		29-Feb-20 A
AIP DPR - Permanent Structure	87	13-Jan-20	04-May-20	128	11-Feb-20 A	17-Jul-20 A
AIP - Draft - Final Review and prepare for 1st Sub	24	13-Jan-20	12-Feb-20	2	11-Feb-20 A	12-Feb-20 A
AIP - 1st Sub	0		12-Feb-20	0		12-Feb-20 A
AIP - Review by SO	28	13-Feb-20	11-Mar-20	9	13-Feb-20 A	21-Feb-20 A
AIP - Review by GEO via SO	28	13-Feb-20	11-Mar-20	9	13-Feb-20 A	21-Feb-20 A
AIP - Review by IP / DC	28	13-Feb-20	11-Mar-20	76	13-Feb-20 A	28-Apr-20 A
AIP - Prepare for 2nd Sub	24	12-Mar-20	04-Apr-20	48	22-Feb-20 A	09-Apr-20 A
AIP - 2nd Sub	0		06-Apr-20	0		09-Apr-20 A
AIP - 2nd Review by SO	28	06-Apr-20	03-May-20	99	10-Apr-20 A	17-Jul-20 A
AIP - SO Consent for DDA Submission	0		04-May-20	0		17-Jul-20 A
DDA DPR - ELS Design (Sheet Pile)	82	23-Jan-20	07-May-20	38	04-Mar-20 A	21-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	16	23-Jan-20	13-Feb-20	8	04-Mar-20 A	12-Mar-20 A
DDA - 1st Sub	0		27-Feb-20	0		12-Mar-20 A
DDA - Review by SO	28	28-Feb-20	26-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Review by GEO via SO	28	28-Feb-20	26-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Review by IP / DC	28	28-Feb-20	26-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Further information required by SO	6	27-Mar-20	02-Apr-20	12	26-Mar-20 A	09-Apr-20 A
DDA - 2nd Sub	0		02-Apr-20	0		09-Apr-20 A
DDA - 2nd Review by SO	35	03-Apr-20	07-May-20	12	10-Apr-20 A	21-Apr-20 A
DDA - SO Consent for Construction	0		07-May-20	0		21-Apr-20 A
DDA DPR - ELS Design (Deep section + Perm. + Foundatio	81	10-Feb-20	20-May-20	68	17-Mar-20 A	10-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Feb-20	07-Mar-20	13	17-Mar-20 A	31-Mar-20 A
DDA - 1st Sub	0		07-Mar-20	0		31-Mar-20 A
DDA - Review by SO	28	08-Mar-20	04-Apr-20	27	01-Apr-20 A	27-Apr-20 A
DDA - Review by GEO via SO	28	08-Mar-20	04-Apr-20	27	01-Apr-20 A	27-Apr-20 A
DDA - Review by IP / DC	28	08-Mar-20	04-Apr-20	49	01-Apr-20 A	19-May-20 A
DDA - Further information required by SO	6	06-Apr-20	15-Apr-20	17	28-Apr-20 A	19-May-20 A
DDA - 2nd Sub	0		15-Apr-20	0		19-May-20 A
DDA - 2nd Review by SO	35	16-Apr-20	20-May-20	22	20-May-20 A	10-Jun-20 A
DDA - SO Consent for Construction	0		20-May-20	0		10-Jun-20 A
DDA DPR - Horizontal Element + Pump Test + DCRA	125	28-Feb-20	31-Jul-20	197	28-Feb-20 A	28-Oct-20
DDA - Draft - Preparation by Designer	36	28-Feb-20	14-Apr-20	100	28-Feb-20 A	02-Jul-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	15-Apr-20	07-May-20	12	03-Jul-20 A	16-Jul-20 A
DDA - 1st Sub	0		07-May-20	0		16-Jul-20 A
DDA - Review by SO	28	08-May-20	04-Jun-20	41	17-Jul-20 A	26-Aug-20 A
DDA - Review by IP / DC	28	08-May-20	04-Jun-20	68	17-Jul-20 A	22-Sep-20 A
DDA - Further information required by SO	18	05-Jun-20	26-Jun-20	23	27-Aug-20 A	22-Sep-20 A



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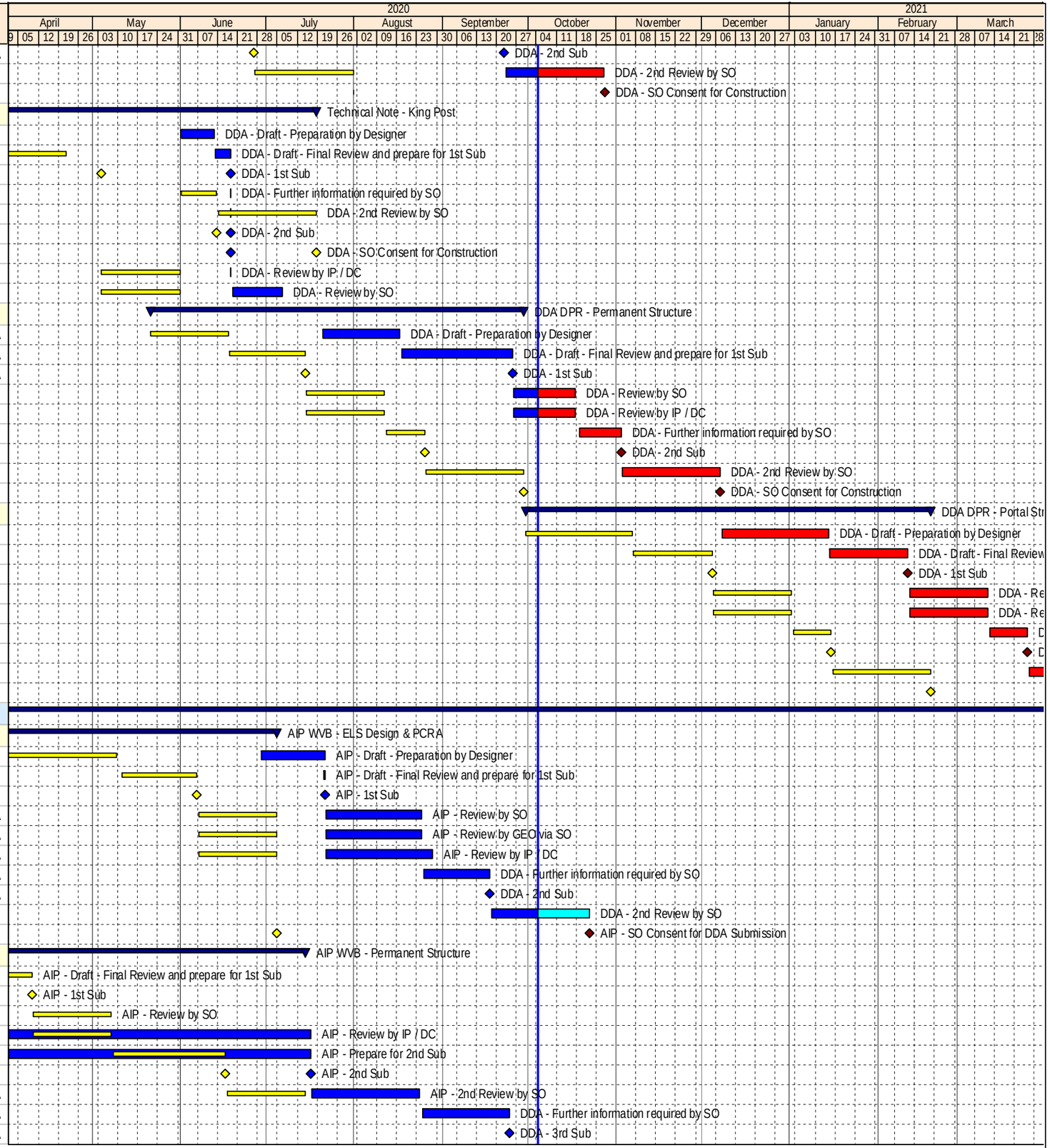
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - 2nd Sub	0		26-Jun-20	0		22-Sep-20 A
DDA - 2nd Review by SO	35	27-Jun-20	31-Jul-20	35	23-Sep-20 A	27-Oct-20
DDA - SO Consent for Construction	0	31-Jul-20	31-Jul-20	0	28-Oct-20	28-Oct-20
Technical Note - King Post	127	13-Feb-20	18-Jul-20	29	01-Jun-20 A	06-Jul-20 A
DDA - Draft - Preparation by Designer	37	13-Feb-20	26-Mar-20	11	01-Jun-20 A	12-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	27-Mar-20	21-Apr-20	5	13-Jun-20 A	18-Jun-20 A
DDA - 1st Sub	0		04-May-20	0		18-Jun-20 A
DDA - Further information required by SO	12	01-Jun-20	13-Jun-20	0	18-Jun-20 A	18-Jun-20 A
DDA - 2nd Review by SO	35	14-Jun-20	18-Jul-20	0	18-Jun-20 A	18-Jun-20 A
DDA - 2nd Sub	0		13-Jun-20	0		18-Jun-20 A
DDA - SO Consent for Construction	0		18-Jul-20	0		18-Jun-20 A
DDA - Review by IP / DC	28	04-May-20	31-May-20	0	18-Jun-20 A	18-Jun-20 A
DDA - Review by SO	28	04-May-20	31-May-20	18	19-Jun-20 A	06-Jul-20 A
DDA DPR - Permanent Structure	111	21-May-20	29-Sep-20	117	21-Jul-20 A	07-Dec-20
DDA - Draft - Preparation by Designer	24	21-May-20	17-Jun-20	23	21-Jul-20 A	17-Aug-20 A
DDA - Draft - Final Review and prepare for 1st Sub	21	18-Jun-20	14-Jul-20	34	18-Aug-20 A	25-Sep-20 A
DDA - 1st Sub	0		14-Jul-20	0		25-Sep-20 A
DDA - Review by SO	28	15-Jul-20	11-Aug-20	22	26-Sep-20 A	17-Oct-20
DDA - Review by IP / DC	28	15-Jul-20	11-Aug-20	22	26-Sep-20 A	17-Oct-20
DDA - Further information required by SO	12	12-Aug-20	25-Aug-20	12	19-Oct-20	02-Nov-20
DDA - 2nd Sub	0		25-Aug-20	0		02-Nov-20
DDA - 2nd Review by SO	35	26-Aug-20	29-Sep-20	35	03-Nov-20	07-Dec-20
DDA - SO Consent for Construction	0		29-Sep-20	0		07-Dec-20
DDA DPR - Portal Structure	114	30-Sep-20	19-Feb-21	113	08-Dec-20	29-Apr-21
DDA - Draft - Preparation by Designer	30	30-Sep-20	06-Nov-20	30	08-Dec-20	14-Jan-21
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	04-Dec-20	24	15-Jan-21	11-Feb-21
DDA - 1st Sub	0		04-Dec-20	0		11-Feb-21
DDA - Review by SO	28	05-Dec-20	01-Jan-21	28	12-Feb-21	11-Mar-21
DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21	28	12-Feb-21	11-Mar-21
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21	12	12-Mar-21	25-Mar-21
DDA - 2nd Sub	0		15-Jan-21	0		25-Mar-21
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	35	26-Mar-21	29-Apr-21
DDA - SO Consent for Construction	0		19-Feb-21	0		29-Apr-21
WEST VENTILATION BUILDING [WVB]	389	12-Mar-20	07-Jul-21	362	17-Feb-20 A	08-May-21
AIP WVB - ELS Design & PCRA	82	23-Mar-20	04-Jul-20	97	29-Jun-20 A	22-Oct-20
AIP - Draft - Preparation by Designer	36	23-Mar-20	09-May-20	19	29-Jun-20 A	21-Jul-20 A
AIP - Draft - Final Review and prepare for 1st Sub	24	11-May-20	06-Jun-20	1	21-Jul-20 A	21-Jul-20 A
AIP - 1st Sub	0		06-Jun-20	0		21-Jul-20 A
AIP - Review by SO	28	07-Jun-20	04-Jul-20	34	22-Jul-20 A	24-Aug-20 A
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 IP / DC	28	07-Jun-20	04-Jul-20	38	22-Jul-20 A	28-Aug-20 A
DDA - Further information required by SO	0			21	25-Aug-20 A	17-Sep-20 A
DDA - 2nd Sub	0			0		17-Sep-20 A
DDA - 2nd Review by SO	0			35	18-Sep-20 A	22-Oct-20
AIP - SO Consent for DDA Submission	0		04-Jul-20	0		22-Oct-20
AIP WVB - Permanent Structure	99	12-Mar-20	14-Jul-20	209	17-Feb-20 A	29-Oct-20
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 - 1st Sub	0		09-Apr-20	0		12-Mar-20 A
AIP - Review by SO	28	10-Apr-20	07-May-20	15	13-Mar-20 A	27-Mar-20 A
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	111	28-Mar-20 A	16-Jul-20 A
AIP - 2nd Sub	0		16-Jun-20	0		16-Jul-20 A
AIP - 2nd Review by SO	28	17-Jun-20	14-Jul-20	38	17-Jul-20 A	24-Aug-20 A
DDA - Further information required by SO	0			27	25-Aug-20 A	24-Sep-20 A
DDA - 3rd Sub	0			0		24-Sep-20 A



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

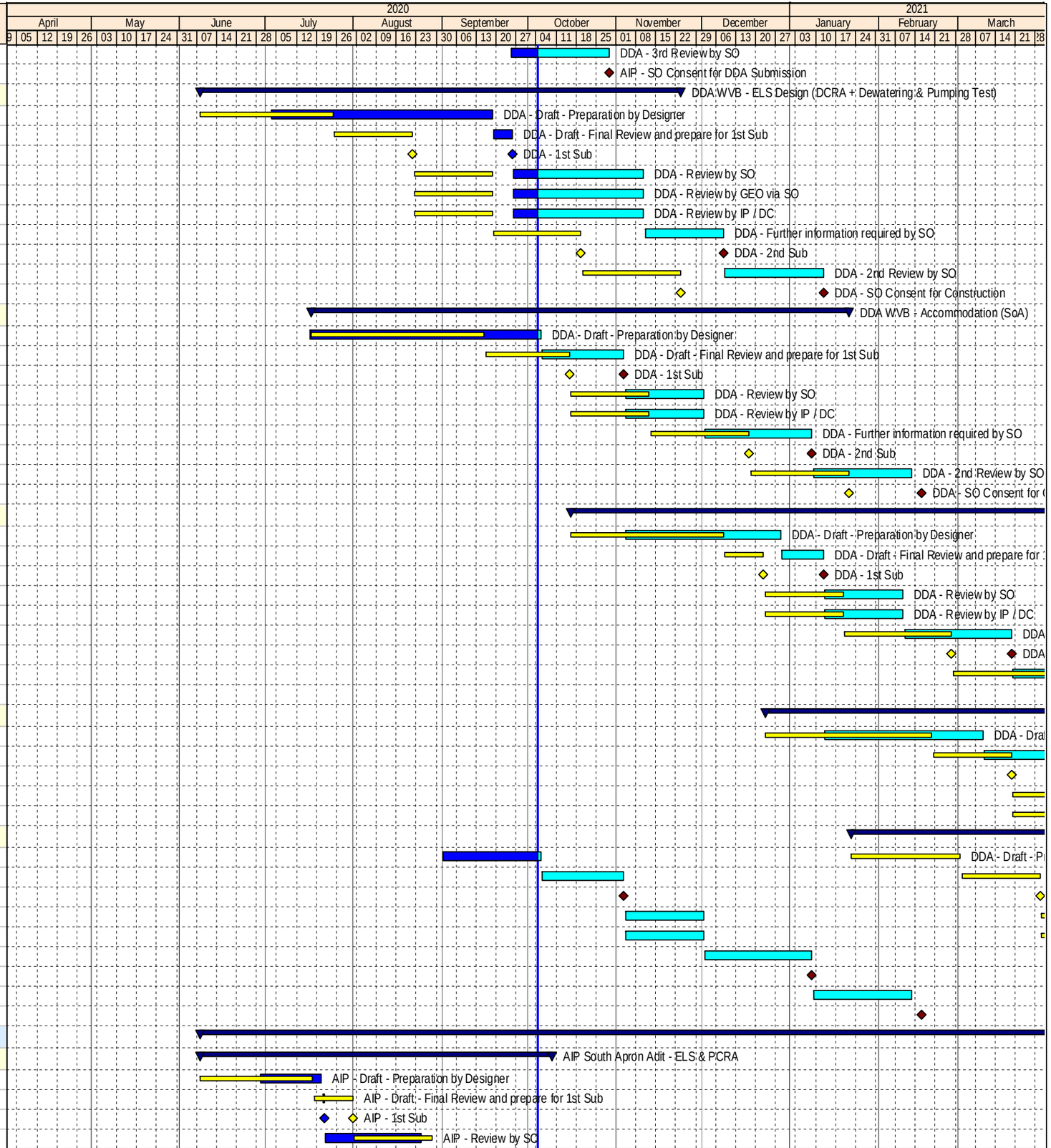
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
DDA - 3rd Review by SO	0			35	25-Sep-20 A	29-Oct-20
AIP - SO Consent for DDA Submission	0			0		29-Oct-20
DDA WVB - ELS Design (DCRA + Dewatering & Pumping T	140	08-Jun-20	23-Nov-20	160	03-Jul-20 A	12-Jan-21
DDA - Draft - Preparation by Designer	39	08-Jun-20	24-Jul-20	67	03-Jul-20 A	18-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	25-Jul-20	21-Aug-20	6	19-Sep-20 A	25-Sep-20 A
DDA - 1st Sub	0		21-Aug-20	0		25-Sep-20 A
DDA - Review by SO	28	22-Aug-20	18-Sep-20	46	26-Sep-20 A	10-Nov-20
DDA - Review by GEO via SO	28	22-Aug-20	18-Sep-20	46	26-Sep-20 A	10-Nov-20
DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20	46	26-Sep-20 A	10-Nov-20
DDA - Further information required by SO	24	19-Sep-20	19-Oct-20	24	11-Nov-20	08-Dec-20
DDA - 2nd Sub	0		19-Oct-20	0		08-Dec-20
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	35	09-Dec-20	12-Jan-21
DDA - SO Consent for Construction	0		23-Nov-20	0		12-Jan-21
DDA WVB - Accommodation (SoA)	156	17-Jul-20	21-Jan-21	174	17-Jul-20 A	16-Feb-21
DDA - Draft - Preparation by Designer	52	17-Jul-20	15-Sep-20	67	17-Jul-20 A	05-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Sep-20	15-Oct-20	24	06-Oct-20	03-Nov-20
DDA - 1st Sub	0		15-Oct-20	0		03-Nov-20
DDA - Review by SO	28	16-Oct-20	12-Nov-20	28	04-Nov-20	01-Dec-20
DDA - Review by IP / DC	28	16-Oct-20	12-Nov-20	28	04-Nov-20	01-Dec-20
DDA - Further information required by SO	30	13-Nov-20	17-Dec-20	30	02-Dec-20	08-Jan-21
DDA - 2nd Sub	0		17-Dec-20	0		08-Jan-21
DDA - 2nd Review by SO	35	18-Dec-20	21-Jan-21	35	09-Jan-21	12-Feb-21
DDA - SO Consent for Construction	0		21-Jan-21	0		16-Feb-21
DDA WVB - Permanent Structure	137	16-Oct-20	07-Apr-21	137	04-Nov-20	23-Apr-21
DDA - Draft - Preparation by Designer	45	16-Oct-20	08-Dec-20	45	04-Nov-20	28-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	12	09-Dec-20	22-Dec-20	12	29-Dec-20	12-Jan-21
DDA - 1st Sub	0		22-Dec-20	0		12-Jan-21
DDA - Review by SO	28	23-Dec-20	19-Jan-21	28	13-Jan-21	09-Feb-21
DDA - Review by IP / DC	28	23-Dec-20	19-Jan-21	28	13-Jan-21	09-Feb-21
DDA - Further information required by SO	30	20-Jan-21	26-Feb-21	30	10-Feb-21	19-Mar-21
DDA - 2nd Sub	0		26-Feb-21	0		19-Mar-21
DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	35	20-Mar-21	23-Apr-21
DDA - SO Consent for Construction	0		07-Apr-21	0		23-Apr-21
DDA WVB - ABWF	89	23-Dec-20	16-Apr-21	92	13-Jan-21	08-May-21
DDA - Draft - Preparation by Designer	45	23-Dec-20	19-Feb-21	45	13-Jan-21	09-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Feb-21	19-Mar-21	24	10-Mar-21	10-Apr-21
DDA - 1st Sub	0		19-Mar-21	0		10-Apr-21
DDA - Review by SO	28	20-Mar-21	16-Apr-21	28	11-Apr-21	08-May-21
DDA - Review by IP / DC	28	20-Mar-21	16-Apr-21	28	11-Apr-21	08-May-21
DDA WVB - General Building Plan	132	22-Jan-21	07-Jul-21	135	01-Sep-20 A	16-Feb-21
DDA - Draft - Preparation by Designer	30	22-Jan-21	01-Mar-21	28	01-Sep-20 A	05-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Mar-21	29-Mar-21	24	06-Oct-20	03-Nov-20
DDA - 1st Sub	0		29-Mar-21	0		03-Nov-20
DDA - Review by SO	28	30-Mar-21	26-Apr-21	28	04-Nov-20	01-Dec-20
DDA - Review by IP / DC	28	30-Mar-21	26-Apr-21	28	04-Nov-20	01-Dec-20
DDA - Further information required by SO	30	27-Apr-21	02-Jun-21	30	02-Dec-20	08-Jan-21
DDA - 2nd Sub	0		02-Jun-21	0		08-Jan-21
DDA - 2nd Review by SO	35	03-Jun-21	07-Jul-21	35	09-Jan-21	12-Feb-21
DDA - SO Consent for Construction	0		07-Jul-21	0		16-Feb-21
SOUTH APRON ADIT	315	08-Jun-20	02-Jul-21	250	29-Jun-20 A	03-May-21
AIP South Apron Adit - ELS & PCRA	103	08-Jun-20	09-Oct-20	97	29-Jun-20 A	22-Oct-20
AIP - Draft - Preparation by Designer	33	08-Jun-20	17-Jul-20	18	29-Jun-20 A	20-Jul-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	18-Jul-20	31-Jul-20	1	21-Jul-20 A	21-Jul-20 A
AIP - 1st Sub	0		31-Jul-20	0		21-Jul-20 A
AIP - Review by SO	28	01-Aug-20	28-Aug-20	34	22-Jul-20 A	24-Aug-20 A



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

Three Months Rolling Programme

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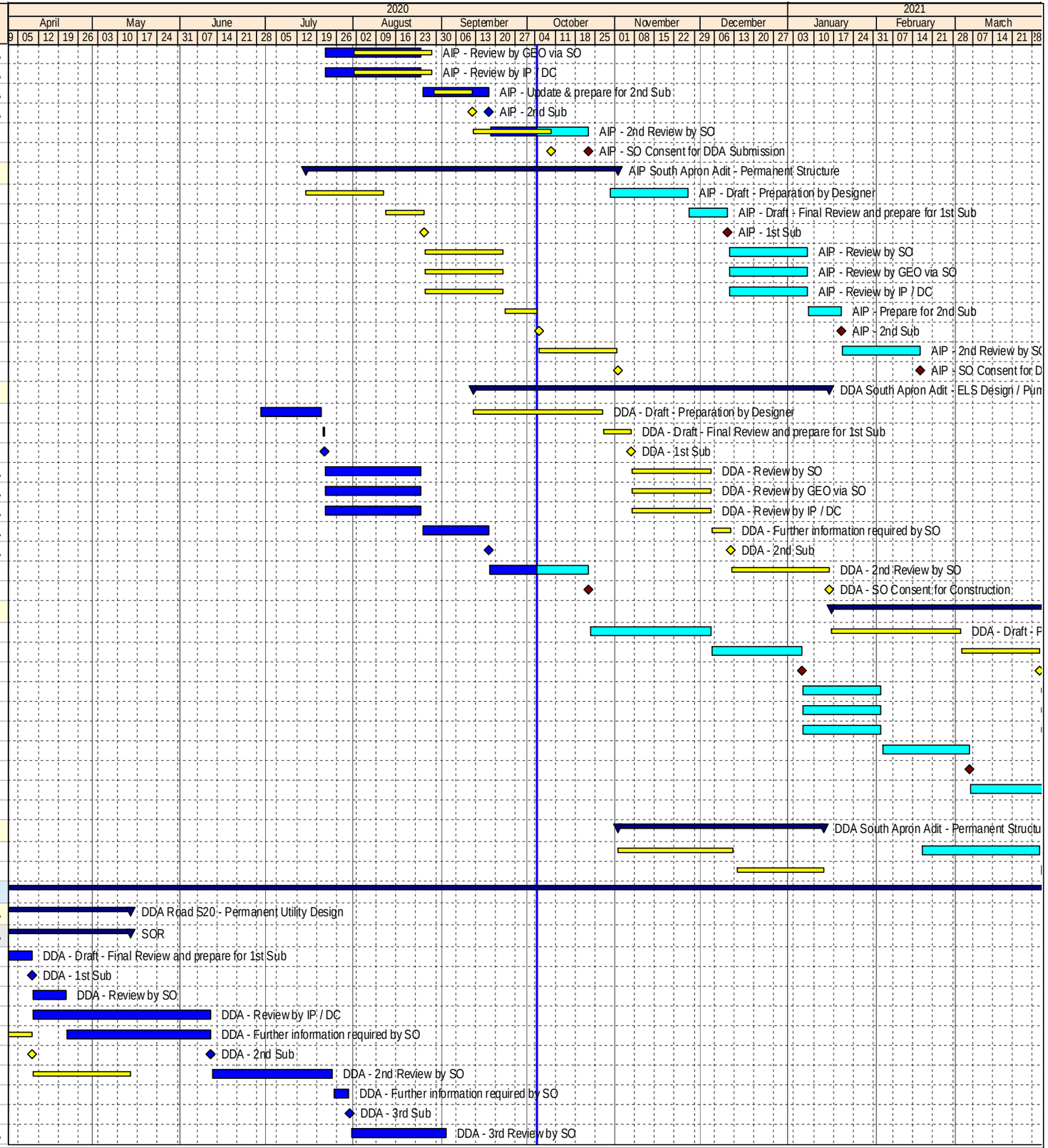
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - Review by GEO via SO	28	01-Aug-20	28-Aug-20	34	22-Jul-20 A	24-Aug-20 A
AIP - Review by IP / DC	28	01-Aug-20	28-Aug-20	34	22-Jul-20 A	24-Aug-20 A
AIP - Update & prepare for 2nd Sub	12	29-Aug-20	11-Sep-20	21	25-Aug-20 A	17-Sep-20 A
AIP - 2nd Sub	0		11-Sep-20	0		17-Sep-20 A
AIP - 2nd Review by SO	28	12-Sep-20	09-Oct-20	35	18-Sep-20 A	22-Oct-20
AIP - SO Consent for DDA Submission	0		09-Oct-20	0		22-Oct-20
AIP South Apron Adit - Permanent Structure	91	15-Jul-20	02-Nov-20	88	30-Oct-20	16-Feb-21
AIP - Draft - Preparation by Designer	24	15-Jul-20	11-Aug-20	24	30-Oct-20	26-Nov-20
AIP - Draft - Final Review and prepare for 1st Sub	12	12-Aug-20	25-Aug-20	12	27-Nov-20	10-Dec-20
AIP - 1st Sub	0		25-Aug-20	0		10-Dec-20
AIP - Review by SO	28	26-Aug-20	22-Sep-20	28	11-Dec-20	07-Jan-21
AIP - Review by GEO via SO	28	26-Aug-20	22-Sep-20	28	11-Dec-20	07-Jan-21
AIP - Review by IP / DC	28	26-Aug-20	22-Sep-20	28	11-Dec-20	07-Jan-21
AIP - Prepare for 2nd Sub	12	23-Sep-20	04-Oct-20	12	08-Jan-21	19-Jan-21
AIP - 2nd Sub	0		05-Oct-20	0		19-Jan-21
AIP - 2nd Review by SO	28	05-Oct-20	01-Nov-20	28	20-Jan-21	16-Feb-21
AIP - SO Consent for DDA Submission	0		02-Nov-20	0		16-Feb-21
DDA South Apron Adit - ELS Design / Pumping Test	102	12-Sep-20	15-Jan-21	97	29-Jun-20 A	22-Oct-20
DDA - Draft - Preparation by Designer	36	12-Sep-20	27-Oct-20	18	29-Jun-20 A	20-Jul-20 A
DDA - Draft - Final Review and prepare for 1st Sub	9	28-Oct-20	06-Nov-20	1	21-Jul-20 A	21-Jul-20 A
DDA - 1st Sub	0		06-Nov-20	0		21-Jul-20 A
DDA - Review by SO	28	07-Nov-20	04-Dec-20	34	22-Jul-20 A	24-Aug-20 A
DDA - Review by GEO via SO	28	07-Nov-20	04-Dec-20	34	22-Jul-20 A	24-Aug-20 A
DDA - Review by IP / DC	28	07-Nov-20	04-Dec-20	34	22-Jul-20 A	24-Aug-20 A
DDA - Further information required by SO	6	05-Dec-20	11-Dec-20	21	25-Aug-20 A	17-Sep-20 A
DDA - 2nd Sub	0		11-Dec-20	0		17-Sep-20 A
DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	35	18-Sep-20 A	22-Oct-20
DDA - SO Consent for Construction	0		15-Jan-21	0		22-Oct-20
DDA South Apron Adit - DCRA	132	16-Jan-21	02-Jul-21	134	23-Oct-20	09-Apr-21
DDA - Draft - Preparation by Designer	36	16-Jan-21	02-Mar-21	36	23-Oct-20	04-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	24	03-Mar-21	30-Mar-21	24	05-Dec-20	05-Jan-21
DDA - 1st Sub	0		30-Mar-21	0		05-Jan-21
DDA - Review by SO	28	31-Mar-21	27-Apr-21	28	06-Jan-21	02-Feb-21
DDA - Review by GEO via SO	28	31-Mar-21	27-Apr-21	28	06-Jan-21	02-Feb-21
DDA - Review by IP / DC	28	31-Mar-21	27-Apr-21	28	06-Jan-21	02-Feb-21
DDA - Further information required by SO	24	28-Apr-21	27-May-21	24	03-Feb-21	05-Mar-21
DDA - 2nd Sub	0		27-May-21	0		05-Mar-21
DDA - 2nd Review by SO	35	28-May-21	01-Jul-21	35	06-Mar-21	09-Apr-21
DDA - SO Consent for Construction	0		02-Jul-21	0		09-Apr-21
DDA South Apron Adit - Permanent Structure	60	02-Nov-20	13-Jan-21	60	17-Feb-21	03-May-21
DDA - Draft - Preparation by Designer	36	02-Nov-20	12-Dec-20	36	17-Feb-21	30-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	14-Dec-20	13-Jan-21	24	31-Mar-21	03-May-21
SOUTH APRON ROAD WORKS	435	31-Oct-19	21-Apr-21	372	16-Jan-20 A	21-Apr-21
DDA Road S20 - Permanent Utility Design	94	16-Jan-20	14-May-20	132	24-Mar-20 A	02-Sep-20 A
SOR	94	16-Jan-20	14-May-20	132	24-Mar-20 A	02-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	30	16-Jan-20	22-Feb-20	14	24-Mar-20 A	09-Apr-20 A
DDA - 1st Sub	0		22-Feb-20	0		09-Apr-20 A
DDA - Review by SO	28	23-Feb-20	21-Mar-20	12	10-Apr-20 A	21-Apr-20 A
DDA - Review by IP / DC	28	23-Feb-20	21-Mar-20	63	10-Apr-20 A	11-Jun-20 A
DDA - Further information required by SO	15	23-Mar-20	09-Apr-20	42	22-Apr-20 A	11-Jun-20 A
DDA - 2nd Sub	0		09-Apr-20	0		11-Jun-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	42	12-Jun-20 A	24-Jul-20 A
DDA - Further information required by SO	0			5	25-Jul-20 A	30-Jul-20 A
DDA - 3rd Sub	0			0		30-Jul-20 A
DDA - 3rd Review by SO	0			34	31-Jul-20 A	02-Sep-20 A



Milestone · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar · Summary

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

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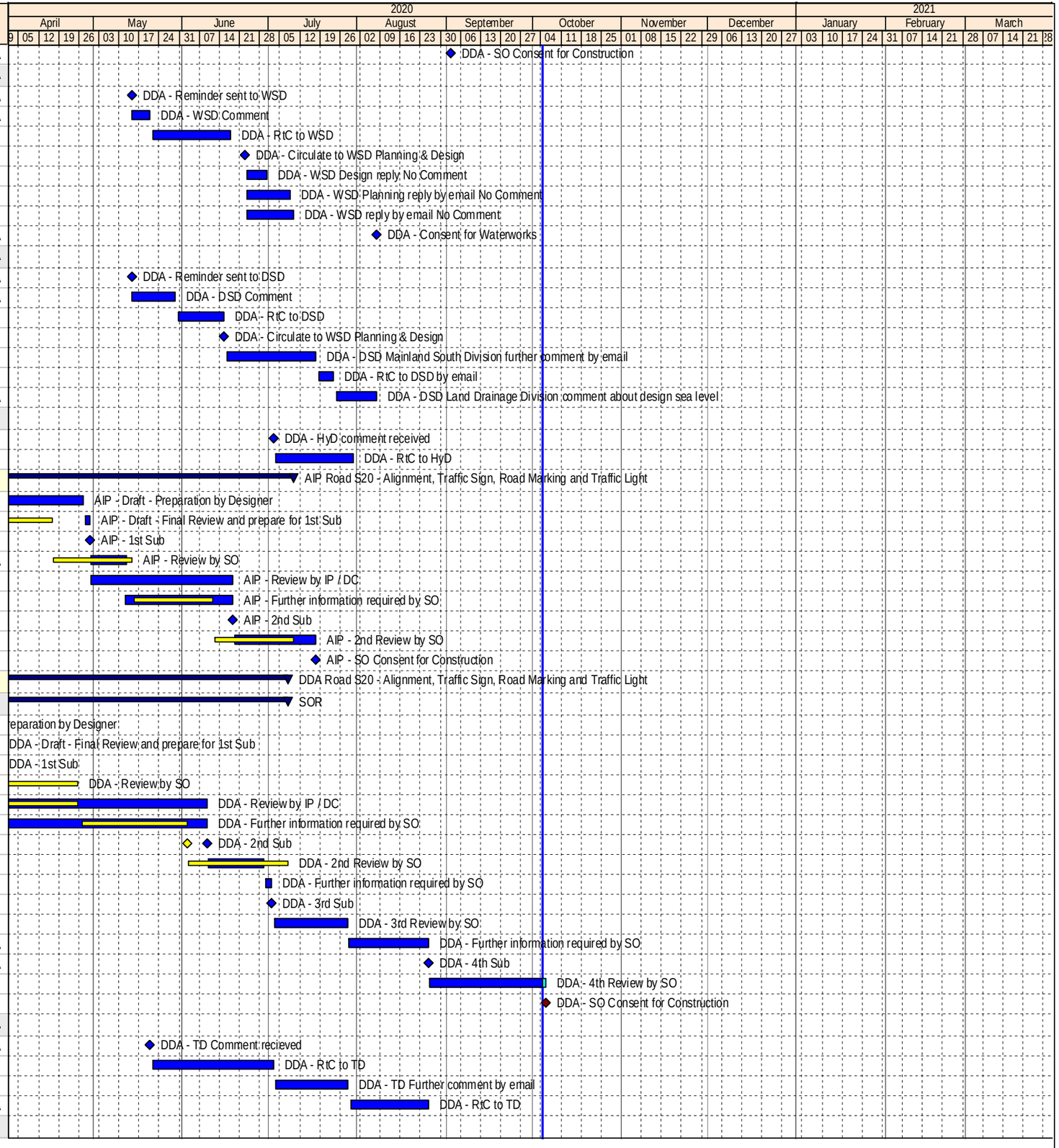
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - SO Consent for Construction	0			0		02-Sep-20 A
WSD	0			71	14-May-20 A	07-Aug-20 A
DDA - Reminder sent to WSD	0			0		14-May-20 A
DDA - WSD Comment	0			5	14-May-20 A	20-May-20 A
DDA - RtC to WSD	0			23	21-May-20 A	17-Jun-20 A
DDA - Circulate to WSD Planning & Design	0			0		22-Jun-20 A
DDA - WSD Design reply No Comment	0			5	23-Jun-20 A	30-Jun-20 A
DDA - WSD Planning reply by email No Comment	0			11	23-Jun-20 A	08-Jul-20 A
DDA - WSD reply by email No Comment	0			12	23-Jun-20 A	09-Jul-20 A
DDA - Consent for Waterworks	0			0		07-Aug-20 A
DSD	0			71	14-May-20 A	07-Aug-20 A
DDA - Reminder sent to DSD	0			0		14-May-20 A
DDA - DSD Comment	0			13	14-May-20 A	29-May-20 A
DDA - RtC to DSD	0			13	30-May-20 A	15-Jun-20 A
DDA - Circulate to WSD Planning & Design	0			0		15-Jun-20 A
DDA - DSD Mainland South Division further comment by email	0			25	16-Jun-20 A	17-Jul-20 A
DDA - RtC to DSD by email	0			4	18-Jul-20 A	23-Jul-20 A
DDA - DSD Land Drainage Division comment about design sea level	0			12	24-Jul-20 A	07-Aug-20 A
HyD	0			24	02-Jul-20 A	30-Jul-20 A
DDA - HyD comment received	0			0		02-Jul-20 A
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	147	16-Jan-20 A	17-Jul-20 A
AIP - Draft - Preparation by Designer	0			81	16-Jan-20 A	27-Apr-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	30-Mar-20	16-Apr-20	2	28-Apr-20 A	29-Apr-20 A
AIP - 1st Sub	0			0		29-Apr-20 A
AIP - Review by SO	28	17-Apr-20	14-May-20	13	30-Apr-20 A	12-May-20 A
AIP - Review by IP / DC	0			50	30-Apr-20 A	18-Jun-20 A
AIP - Further information required by SO	24	15-May-20	11-Jun-20	33	12-May-20 A	18-Jun-20 A
AIP - 2nd Sub	0			0		18-Jun-20 A
AIP - 2nd Review by SO	28	12-Jun-20	09-Jul-20	29	19-Jun-20 A	17-Jul-20 A
AIP - SO Consent for Construction	0			0		17-Jul-20 A
DDA Road S20 - Alignment, Traffic Sign, Road Marking and	138	16-Jan-20	07-Jul-20	213	16-Jan-20 A	05-Oct-20
SOR	138	16-Jan-20	07-Jul-20	213	16-Jan-20 A	05-Oct-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	7	03-Mar-20 A	10-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	11-Mar-20 A	23-Mar-20 A
DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20	91	11-Mar-20 A	09-Jun-20 A
DDA - Further information required by SO	30	27-Apr-20	02-Jun-20	61	24-Mar-20 A	09-Jun-20 A
DDA - 2nd Sub	0		02-Jun-20	0		09-Jun-20 A
DDA - 2nd Review by SO	35	03-Jun-20	07-Jul-20	19	10-Jun-20 A	29-Jun-20 A
DDA - Further information required by SO	0			2	30-Jun-20 A	02-Jul-20 A
DDA - 3rd Sub	0			0		02-Jul-20 A
DDA - 3rd Review by SO	0			26	03-Jul-20 A	28-Jul-20 A
DDA - Further information required by SO	0			28	29-Jul-20 A	25-Aug-20 A
DDA - 4th Sub	0			0		25-Aug-20 A
DDA - 4th Review by SO	0			41	26-Aug-20 A	05-Oct-20
DDA - SO Consent for Construction	0			0		05-Oct-20
TD	0			81	20-May-20 A	25-Aug-20 A
DDA - TD Comment recieved	0			0		20-May-20 A
DDA - RtC to TD	0			34	21-May-20 A	02-Jul-20 A
DDA - TD Further comment by email	0			21	03-Jul-20 A	28-Jul-20 A
DDA - RtC to TD	0			23	29-Jul-20 A	25-Aug-20 A
HyD	0			99	25-Mar-20 A	28-Jul-20 A



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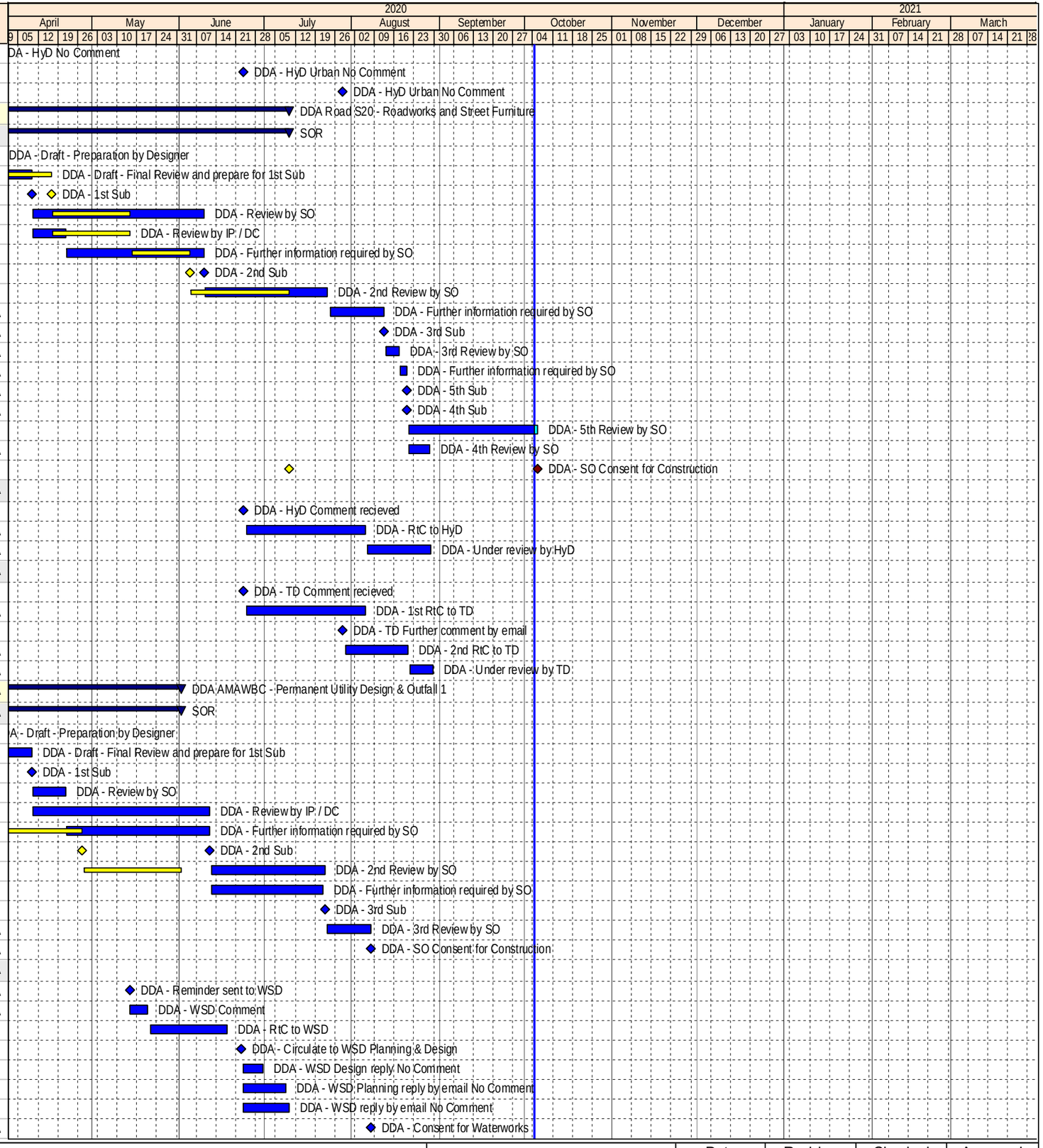
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - HyD No Comment	0			0		25-Mar-20 A
DDA - HyD Urban No Comment	0			0		23-Jun-20 A
DDA - HyD Urban No Comment	0			0		28-Jul-20 A
DDA Road S20 - Roadworks and Street Furniture	104	02-Mar-20	09-Jul-20	177	02-Mar-20 A	05-Oct-20
SOR	104	02-Mar-20	09-Jul-20	177	02-Mar-20 A	05-Oct-20
DDA - Draft - Preparation by Designer	24	02-Mar-20	28-Mar-20	24	02-Mar-20 A	28-Mar-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	30-Mar-20	16-Apr-20	9	30-Mar-20 A	09-Apr-20 A
DDA - 1st Sub	0		16-Apr-20	0		09-Apr-20 A
DDA - Review by SO	28	17-Apr-20	14-May-20	61	10-Apr-20 A	09-Jun-20 A
DDA - Review by IP / DC	28	17-Apr-20	14-May-20	12	10-Apr-20 A	21-Apr-20 A
DDA - Further information required by SO	18	15-May-20	04-Jun-20	40	22-Apr-20 A	09-Jun-20 A
DDA - 2nd Sub	0		04-Jun-20	0		09-Jun-20 A
DDA - 2nd Review by SO	35	05-Jun-20	09-Jul-20	43	10-Jun-20 A	23-Jul-20 A
DDA - Further information required by SO	0			19	24-Jul-20 A	12-Aug-20 A
DDA - 3rd Sub	0			0		12-Aug-20 A
DDA - 3rd Review by SO	0			5	13-Aug-20 A	17-Aug-20 A
DDA - Further information required by SO	0			2	18-Aug-20 A	20-Aug-20 A
DDA - 5th Sub	0			0		20-Aug-20 A
DDA - 4th Sub	0			0		20-Aug-20 A
DDA - 5th Review by SO	0			46	21-Aug-20 A	05-Oct-20
DDA - 4th Review by SO	0			8	21-Aug-20 A	28-Aug-20 A
DDA - SO Consent for Construction	0		09-Jul-20	0		05-Oct-20
HyD	0			55	23-Jun-20 A	29-Aug-20 A
DDA - HyD Comment recieved	0			0		23-Jun-20 A
DDA - RtC to HyD	0			34	24-Jun-20 A	05-Aug-20 A
DDA - Under review by HyD	0			19	06-Aug-20 A	29-Aug-20 A
TD	0			56	23-Jun-20 A	29-Aug-20 A
DDA - TD Comment recieved	0			0		23-Jun-20 A
DDA - 1st RtC to TD	0			34	24-Jun-20 A	05-Aug-20 A
DDA - TD Further comment by email	0			0		28-Jul-20 A
DDA - 2nd RtC to TD	0			19	29-Jul-20 A	20-Aug-20 A
DDA - Under review by TD	0			7	21-Aug-20 A	29-Aug-20 A
DDA AMAWBC - Permanent Utility Design & Outfall 1	172	31-Oct-19	01-Jun-20	153	03-Feb-20 A	07-Aug-20 A
SOR	172	31-Oct-19	01-Jun-20	153	03-Feb-20 A	07-Aug-20 A
DDA - Draft - Preparation by Designer	66	31-Oct-19	18-Jan-20	43	03-Feb-20 A	23-Mar-20 A
DDA - Draft - Final Review and prepare for 1st Sub	30	20-Jan-20	26-Feb-20	14	24-Mar-20 A	09-Apr-20 A
DDA - 1st Sub	0		26-Feb-20	0		09-Apr-20 A
DDA - Review by SO	28	27-Feb-20	25-Mar-20	12	10-Apr-20 A	21-Apr-20 A
DDA - Review by IP / DC	28	27-Feb-20	25-Mar-20	63	10-Apr-20 A	11-Jun-20 A
DDA - Further information required by SO	24	26-Mar-20	27-Apr-20	42	22-Apr-20 A	11-Jun-20 A
DDA - 2nd Sub	0		27-Apr-20	0		11-Jun-20 A
DDA - 2nd Review by SO	35	28-Apr-20	01-Jun-20	41	12-Jun-20 A	22-Jul-20 A
DDA - Further information required by SO	0			40	12-Jun-20 A	21-Jul-20 A
DDA - 3rd Sub	0			0		22-Jul-20 A
DDA - 3rd Review by SO	0			16	23-Jul-20 A	07-Aug-20 A
DDA - SO Consent for Construction	0			0		07-Aug-20 A
WSD	0			71	14-May-20 A	07-Aug-20 A
DDA - Reminder sent to WSD	0			0		14-May-20 A
DDA - WSD Comment	0			5	14-May-20 A	20-May-20 A
DDA - RtC to WSD	0			23	21-May-20 A	17-Jun-20 A
DDA - Circulate to WSD Planning & Design	0			0		22-Jun-20 A
DDA - WSD Design reply No Comment	0			5	23-Jun-20 A	30-Jun-20 A
DDA - WSD Planning reply by email No Comment	0			11	23-Jun-20 A	08-Jul-20 A
DDA - WSD reply by email No Comment	0			12	23-Jun-20 A	09-Jul-20 A
DDA - Consent for Waterworks	0			0		07-Aug-20 A



Milestone · Summary · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar

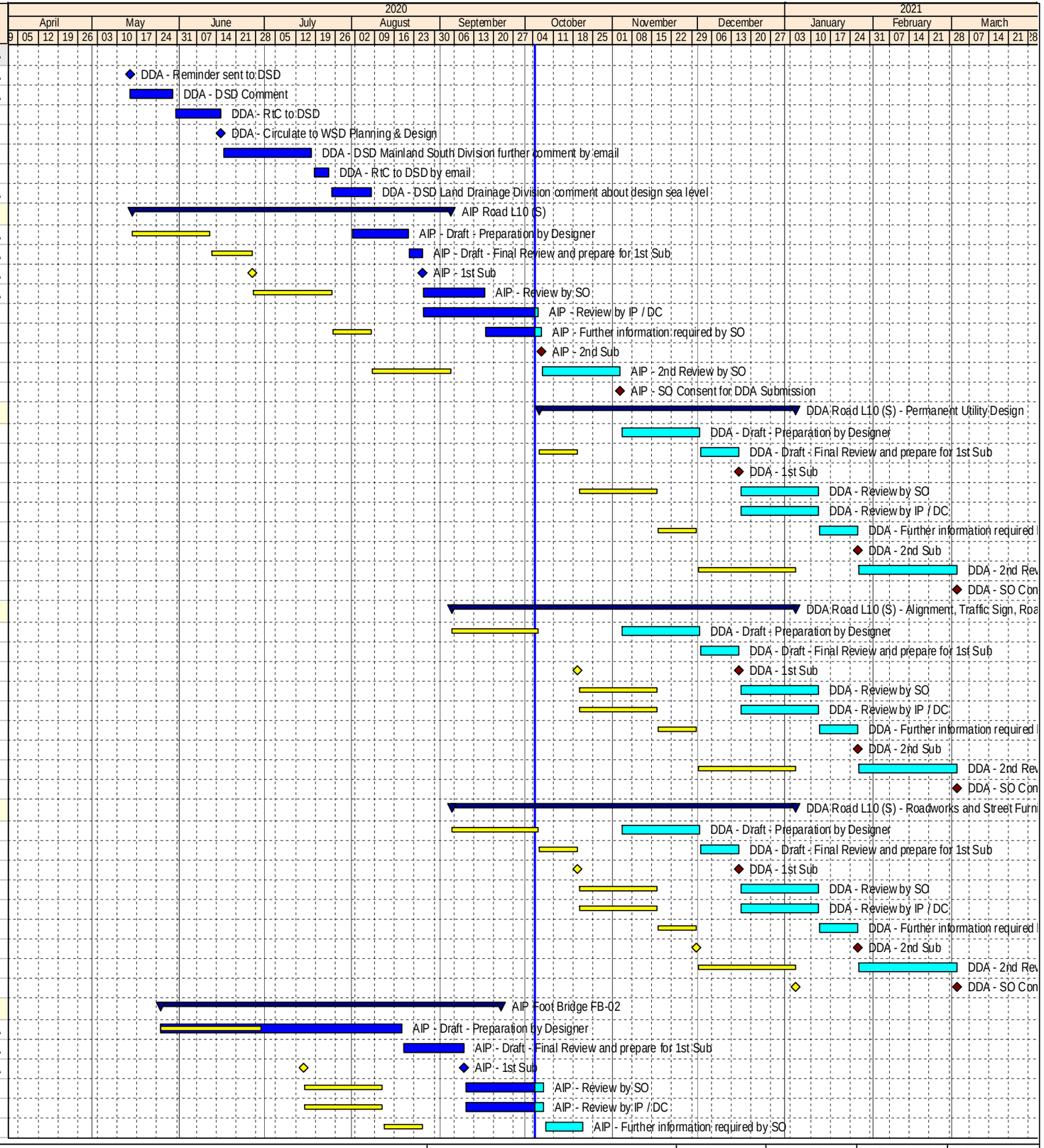
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
DSD	0			71	14-May-20 A	07-Aug-20 A
DDA - Reminder sent to DSD	0			0		14-May-20 A
DDA - DSD Comment	0			13	14-May-20 A	29-May-20 A
DDA - RtC to DSD	0			13	30-May-20 A	15-Jun-20 A
DDA - Circulate to WSD Planning & Design	0			0		15-Jun-20 A
DDA - DSD Mainland South Division further comment by email	0			25	16-Jun-20 A	17-Jul-20 A
DDA - RtC to DSD by email	0			4	18-Jul-20 A	23-Jul-20 A
DDA - DSD Land Drainage Division comment about design sea level	0			12	24-Jul-20 A	07-Aug-20 A
AIP Road L10 (S)	95	15-May-20	04-Sep-20	78	01-Aug-20 A	03-Nov-20
AIP - Draft - Preparation by Designer	24	15-May-20	11-Jun-20	17	01-Aug-20 A	20-Aug-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	12-Jun-20	26-Jun-20	4	21-Aug-20 A	25-Aug-20 A
AIP - 1st Sub	0		26-Jun-20	0		25-Aug-20 A
AIP - Review by SO	28	27-Jun-20	24-Jul-20	22	26-Aug-20 A	16-Sep-20 A
AIP - Review by IP / DC	0			41	26-Aug-20 A	05-Oct-20
AIP - Further information required by SO	12	25-Jul-20	07-Aug-20	15	17-Sep-20 A	06-Oct-20
AIP - 2nd Sub	0			0		06-Oct-20
AIP - 2nd Review by SO	28	08-Aug-20	04-Sep-20	28	07-Oct-20	03-Nov-20
AIP - SO Consent for DDA Submission	0			0		03-Nov-20
DDA Road L10 (S) - Permanent Utility Design	74	06-Oct-20	04-Jan-21	96	04-Nov-20	02-Mar-21
DDA - Draft - Preparation by Designer	0			24	04-Nov-20	01-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Oct-20	19-Oct-20	12	02-Dec-20	15-Dec-20
DDA - 1st Sub	0			0		15-Dec-20
DDA - Review by SO	28	20-Oct-20	16-Nov-20	28	16-Dec-20	12-Jan-21
DDA - Review by IP / DC	0			28	16-Dec-20	12-Jan-21
DDA - Further information required by SO	12	17-Nov-20	30-Nov-20	12	13-Jan-21	26-Jan-21
DDA - 2nd Sub	0			0		26-Jan-21
DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	35	27-Jan-21	02-Mar-21
DDA - SO Consent for Construction	0			0		02-Mar-21
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking a	98	05-Sep-20	04-Jan-21	96	04-Nov-20	02-Mar-21
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	24	04-Nov-20	01-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	0			12	02-Dec-20	15-Dec-20
DDA - 1st Sub	0		19-Oct-20	0		15-Dec-20
DDA - Review by SO	28	20-Oct-20	16-Nov-20	28	16-Dec-20	12-Jan-21
DDA - Review by IP / DC	28	20-Oct-20	16-Nov-20	28	16-Dec-20	12-Jan-21
DDA - Further information required by SO	12	17-Nov-20	30-Nov-20	12	13-Jan-21	26-Jan-21
DDA - 2nd Sub	0			0		26-Jan-21
DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	35	27-Jan-21	02-Mar-21
DDA - SO Consent for Construction	0			0		02-Mar-21
DDA Road L10 (S) - Roadworks and Street Furniture	98	05-Sep-20	04-Jan-21	96	04-Nov-20	02-Mar-21
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	24	04-Nov-20	01-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Oct-20	19-Oct-20	12	02-Dec-20	15-Dec-20
DDA - 1st Sub	0		19-Oct-20	0		15-Dec-20
DDA - Review by SO	28	20-Oct-20	16-Nov-20	28	16-Dec-20	12-Jan-21
DDA - Review by IP / DC	28	20-Oct-20	16-Nov-20	28	16-Dec-20	12-Jan-21
DDA - Further information required by SO	12	17-Nov-20	30-Nov-20	12	13-Jan-21	26-Jan-21
DDA - 2nd Sub	0		30-Nov-20	0		26-Jan-21
DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	35	27-Jan-21	02-Mar-21
DDA - SO Consent for Construction	0		04-Jan-21	0		02-Mar-21
AIP Foot Bridge FB-02	102	25-May-20	22-Sep-20	148	25-May-20 A	18-Nov-20
AIP - Draft - Preparation by Designer	30	25-May-20	29-Jun-20	72	25-May-20 A	18-Aug-20 A
AIP - Draft - Final Review and prepare for 1st Sub	0			19	19-Aug-20 A	09-Sep-20 A
AIP - 1st Sub	0		14-Jul-20	0		09-Sep-20 A
AIP - Review by SO	28	15-Jul-20	11-Aug-20	28	10-Sep-20 A	07-Oct-20
AIP - Review by IP / DC	28	15-Jul-20	11-Aug-20	28	10-Sep-20 A	07-Oct-20
AIP - Further information required by SO	12	12-Aug-20	25-Aug-20	12	08-Oct-20	21-Oct-20



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

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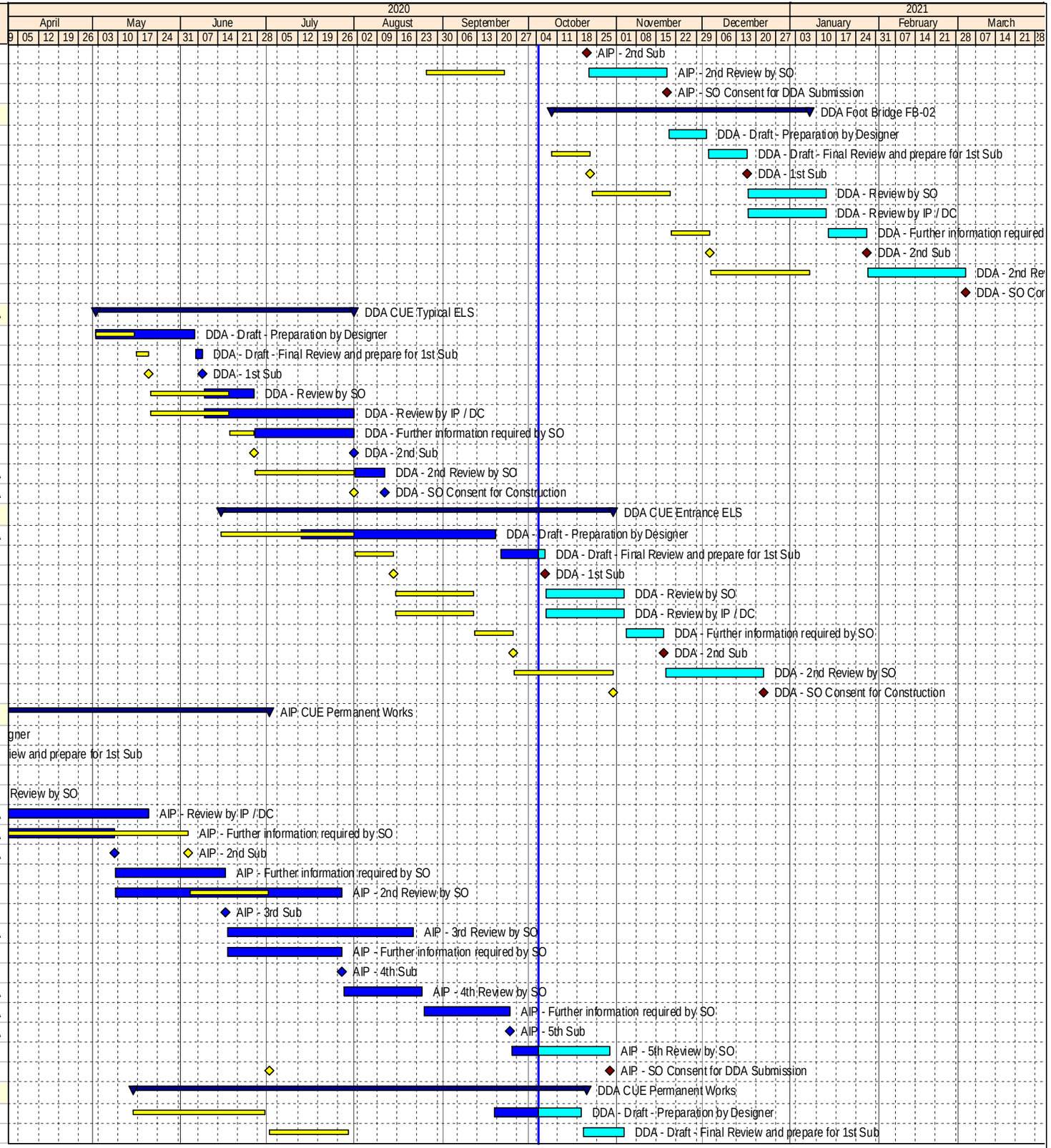
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - 2nd Sub	0			0		21-Oct-20
AIP - 2nd Review by SO	28	26-Aug-20	22-Sep-20	28	22-Oct-20	18-Nov-20
AIP - SO Consent for DDA Submission	0			0		18-Nov-20
DDA Foot Bridge FB-02	74	09-Oct-20	07-Jan-21	84	19-Nov-20	03-Mar-21
DDA - Draft - Preparation by Designer	0			12	19-Nov-20	02-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	12	09-Oct-20	22-Oct-20	12	03-Dec-20	16-Dec-20
DDA - 1st Sub	0		22-Oct-20	0		16-Dec-20
DDA - Review by SO	28	23-Oct-20	19-Nov-20	28	17-Dec-20	13-Jan-21
DDA - Review by IP / DC	0			28	17-Dec-20	13-Jan-21
DDA - Further information required by SO	12	20-Nov-20	03-Dec-20	12	14-Jan-21	27-Jan-21
DDA - 2nd Sub	0		03-Dec-20	0		27-Jan-21
DDA - 2nd Review by SO	35	04-Dec-20	07-Jan-21	35	28-Jan-21	03-Mar-21
DDA - SO Consent for Construction	0			0		03-Mar-21
DDA CUE Typical ELS	76	02-May-20	31-Jul-20	85	02-May-20 A	11-Aug-20 A
DDA - Draft - Preparation by Designer	12	02-May-20	15-May-20	30	02-May-20 A	05-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	4	16-May-20	20-May-20	2	06-Jun-20 A	08-Jun-20 A
DDA - 1st Sub	0		20-May-20	0		08-Jun-20 A
DDA - Review by SO	28	21-May-20	17-Jun-20	18	09-Jun-20 A	26-Jun-20 A
DDA - Review by IP / DC	28	21-May-20	17-Jun-20	53	09-Jun-20 A	31-Jul-20 A
DDA - Further information required by SO	7	18-Jun-20	26-Jun-20	29	27-Jun-20 A	31-Jul-20 A
DDA - 2nd Sub	0		26-Jun-20	0		31-Jul-20 A
DDA - 2nd Review by SO	35	27-Jun-20	31-Jul-20	11	01-Aug-20 A	11-Aug-20 A
DDA - SO Consent for Construction	0		31-Jul-20	0		11-Aug-20 A
DDA CUE Entrance ELS	114	15-Jun-20	30-Oct-20	137	13-Jul-20 A	22-Dec-20
DDA - Draft - Preparation by Designer	39	15-Jun-20	31-Jul-20	60	13-Jul-20 A	19-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	01-Aug-20	14-Aug-20	12	21-Sep-20 A	06-Oct-20
DDA - 1st Sub	0		14-Aug-20	0		06-Oct-20
DDA - Review by SO	28	15-Aug-20	11-Sep-20	28	07-Oct-20	03-Nov-20
DDA - Review by IP / DC	28	15-Aug-20	11-Sep-20	28	07-Oct-20	03-Nov-20
DDA - Further information required by SO	12	12-Sep-20	25-Sep-20	12	04-Nov-20	17-Nov-20
DDA - 2nd Sub	0		25-Sep-20	0		17-Nov-20
DDA - 2nd Review by SO	35	26-Sep-20	30-Oct-20	35	18-Nov-20	22-Dec-20
DDA - SO Consent for Construction	0		30-Oct-20	0		22-Dec-20
AIP CUE Permanent Works	162	10-Dec-19	02-Jul-20	230	20-Jan-20 A	29-Oct-20
AIP - Draft - Preparation by Designer	39	10-Dec-19	30-Jan-20	9	20-Jan-20 A	03-Feb-20 A
AIP - Draft - Final Review and prepare for 1st Sub	18	31-Jan-20	20-Feb-20	8	04-Feb-20 A	12-Feb-20 A
AIP - 1st Sub	0		20-Feb-20	0		12-Feb-20 A
AIP - Review by SO	28	21-Feb-20	19-Mar-20	33	13-Feb-20 A	16-Mar-20 A
AIP - Review by IP / DC	28	21-Feb-20	19-Mar-20	97	13-Feb-20 A	20-May-20 A
AIP - Further information required by SO	59	20-Mar-20	03-Jun-20	40	17-Mar-20 A	08-May-20 A
AIP - 2nd Sub	0		03-Jun-20	0		08-May-20 A
AIP - Further information required by SO	0			33	09-May-20 A	16-Jun-20 A
AIP - 2nd Review by SO	28	04-Jun-20	01-Jul-20	80	09-May-20 A	27-Jul-20 A
AIP - 3rd Sub	0			0		16-Jun-20 A
AIP - 3rd Review by SO	0			66	17-Jun-20 A	21-Aug-20 A
AIP - Further information required by SO	0			33	17-Jun-20 A	27-Jul-20 A
AIP - 4th Sub	0			0		27-Jul-20 A
AIP - 4th Review by SO	0			28	28-Jul-20 A	24-Aug-20 A
AIP - Further information required by SO	0			27	25-Aug-20 A	24-Sep-20 A
AIP - 5th Sub	0			0		24-Sep-20 A
AIP - 5th Review by SO	0			35	25-Sep-20 A	29-Oct-20
AIP - SO Consent for DDA Submission	0		02-Jul-20	0		29-Oct-20
DDA CUE Permanent Works	133	15-May-20	21-Oct-20	105	19-Sep-20 A	26-Jan-21
DDA - Draft - Preparation by Designer	39	15-May-20	30-Jun-20	24	19-Sep-20 A	19-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Jul-20	29-Jul-20	12	20-Oct-20	03-Nov-20



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

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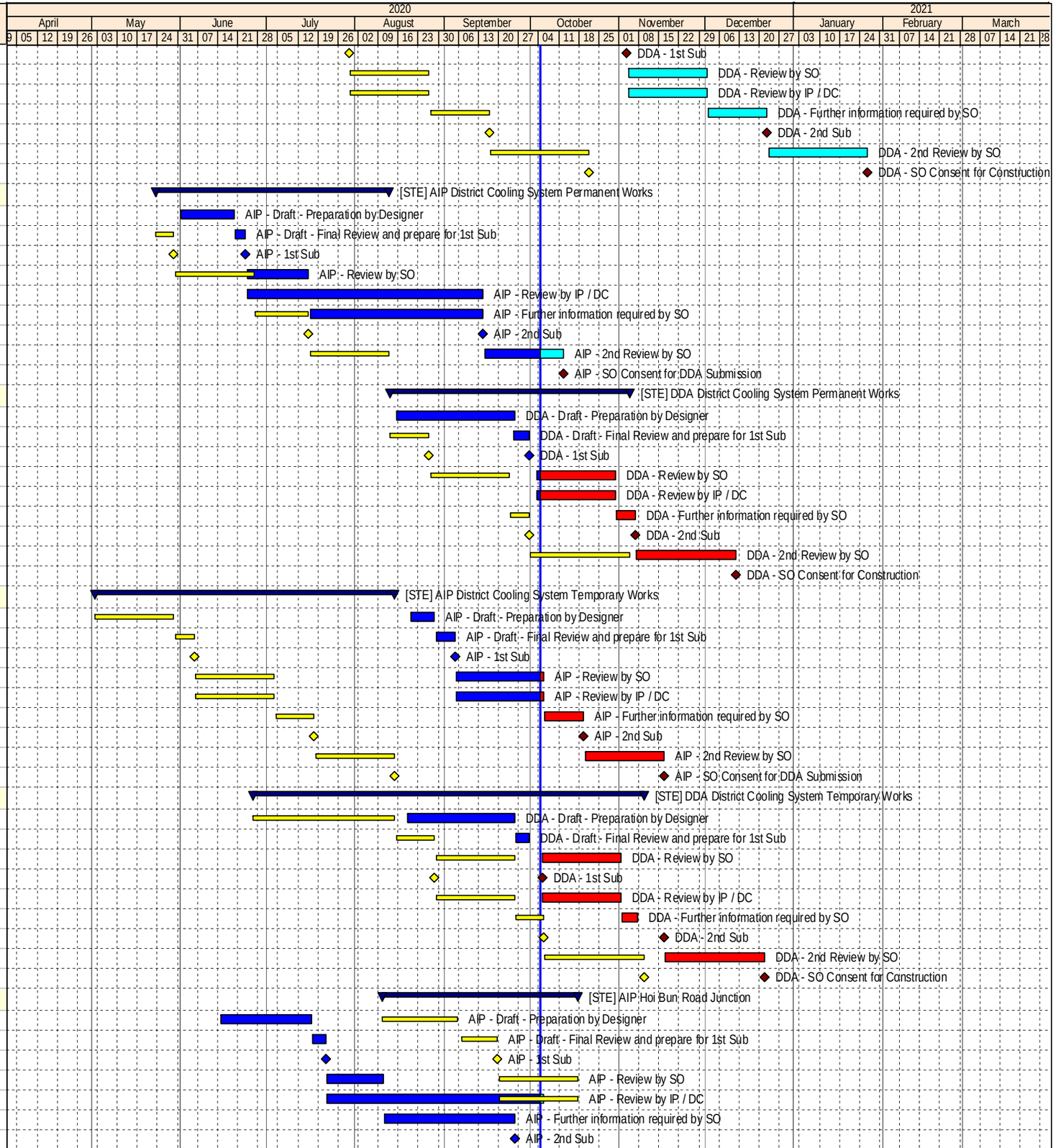
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - 1st Sub	0		29-Jul-20	0		03-Nov-20
DDA - Review by SO	28	30-Jul-20	26-Aug-20	28	04-Nov-20	01-Dec-20
DDA - Review by IP / DC	28	30-Jul-20	26-Aug-20	28	04-Nov-20	01-Dec-20
DDA - Further information required by SO	18	27-Aug-20	16-Sep-20	18	02-Dec-20	22-Dec-20
DDA - 2nd Sub	0		16-Sep-20	0		22-Dec-20
DDA - 2nd Review by SO	35	17-Sep-20	21-Oct-20	35	23-Dec-20	26-Jan-21
DDA - SO Consent for Construction	0		21-Oct-20	0		26-Jan-21
[STE] AIP District Cooling System Permanent Works	68	23-May-20	12-Aug-20	111	01-Jun-20 A	12-Oct-20
AIP - Draft - Preparation by Designer	0			17	01-Jun-20 A	19-Jun-20 A
AIP - Draft - Final Review and prepare for 1st Sub	6	23-May-20	29-May-20	3	20-Jun-20 A	23-Jun-20 A
AIP - 1st Sub	0		29-May-20	0		23-Jun-20 A
AIP - Review by SO	28	30-May-20	26-Jun-20	22	24-Jun-20 A	15-Jul-20 A
AIP - Review by IP / DC	0			83	24-Jun-20 A	14-Sep-20 A
AIP - Further information required by SO	15	27-Jun-20	15-Jul-20	52	16-Jul-20 A	14-Sep-20 A
AIP - 2nd Sub	0		15-Jul-20	0		14-Sep-20 A
AIP - 2nd Review by SO	28	16-Jul-20	12-Aug-20	28	15-Sep-20 A	12-Oct-20
AIP - SO Consent for DDA Submission	0			0		12-Oct-20
[STE] DDA District Cooling System Permanent Works	69	13-Aug-20	04-Nov-20	99	15-Aug-20 A	11-Dec-20
DDA - Draft - Preparation by Designer	0			36	15-Aug-20 A	25-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	13-Aug-20	26-Aug-20	5	25-Sep-20 A	30-Sep-20 A
DDA - 1st Sub	0		26-Aug-20	0		30-Sep-20 A
DDA - Review by SO	28	27-Aug-20	23-Sep-20	28	03-Oct-20 A	30-Oct-20
DDA - Review by IP / DC	0			28	03-Oct-20 A	30-Oct-20
DDA - Further information required by SO	6	24-Sep-20	30-Sep-20	6	31-Oct-20	06-Nov-20
DDA - 2nd Sub	0		30-Sep-20	0		06-Nov-20
DDA - 2nd Review by SO	35	01-Oct-20	04-Nov-20	35	07-Nov-20	11-Dec-20
DDA - SO Consent for Construction	0			0		11-Dec-20
[STE] AIP District Cooling System Temporary Works	88	02-May-20	14-Aug-20	73	20-Aug-20 A	16-Nov-20
AIP - Draft - Preparation by Designer	24	02-May-20	29-May-20	8	20-Aug-20 A	28-Aug-20 A
AIP - Draft - Final Review and prepare for 1st Sub	6	30-May-20	05-Jun-20	6	29-Aug-20 A	04-Sep-20 A
AIP - 1st Sub	0		05-Jun-20	0		04-Sep-20 A
AIP - Review by SO	28	06-Jun-20	03-Jul-20	31	05-Sep-20 A	05-Oct-20
AIP - Review by IP / DC	28	06-Jun-20	03-Jul-20	31	05-Sep-20 A	05-Oct-20
AIP - Further information required by SO	12	04-Jul-20	17-Jul-20	12	06-Oct-20	19-Oct-20
AIP - 2nd Sub	0		17-Jul-20	0		19-Oct-20
AIP - 2nd Review by SO	28	18-Jul-20	14-Aug-20	28	20-Oct-20	16-Nov-20
AIP - SO Consent for DDA Submission	0		14-Aug-20	0		16-Nov-20
[STE] DDA District Cooling System Temporary Works	113	26-Jun-20	09-Nov-20	104	19-Aug-20 A	21-Dec-20
DDA - Draft - Preparation by Designer	42	26-Jun-20	14-Aug-20	33	19-Aug-20 A	25-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	15-Aug-20	28-Aug-20	4	26-Sep-20 A	30-Sep-20 A
DDA - Review by SO	28	29-Aug-20	25-Sep-20	28	05-Oct-20	01-Nov-20
DDA - 1st Sub	0		28-Aug-20	0		05-Oct-20
DDA - Review by IP / DC	28	29-Aug-20	25-Sep-20	28	05-Oct-20	01-Nov-20
DDA - Further information required by SO	6	26-Sep-20	05-Oct-20	6	02-Nov-20	07-Nov-20
DDA - 2nd Sub	0		05-Oct-20	0		16-Nov-20
DDA - 2nd Review by SO	35	06-Oct-20	09-Nov-20	35	17-Nov-20	21-Dec-20
DDA - SO Consent for Construction	0		09-Nov-20	0		21-Dec-20
[STE] AIP Hoi Bun Road Junction	58	10-Aug-20	17-Oct-20	109	15-Jun-20 A	23-Oct-20
AIP - Draft - Preparation by Designer	24	10-Aug-20	05-Sep-20	26	15-Jun-20 A	16-Jul-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	07-Sep-20	19-Sep-20	4	17-Jul-20 A	21-Jul-20 A
AIP - 1st Sub	0		19-Sep-20	0		21-Jul-20 A
AIP - Review by SO	28	20-Sep-20	17-Oct-20	20	22-Jul-20 A	10-Aug-20 A
AIP - Review by IP / DC	28	20-Sep-20	17-Oct-20	76	22-Jul-20 A	05-Oct-20
AIP - Further information required by SO	0			40	11-Aug-20 A	25-Sep-20 A
AIP - 2nd Sub	0			0		25-Sep-20 A



Data Date: 04-Oct-20

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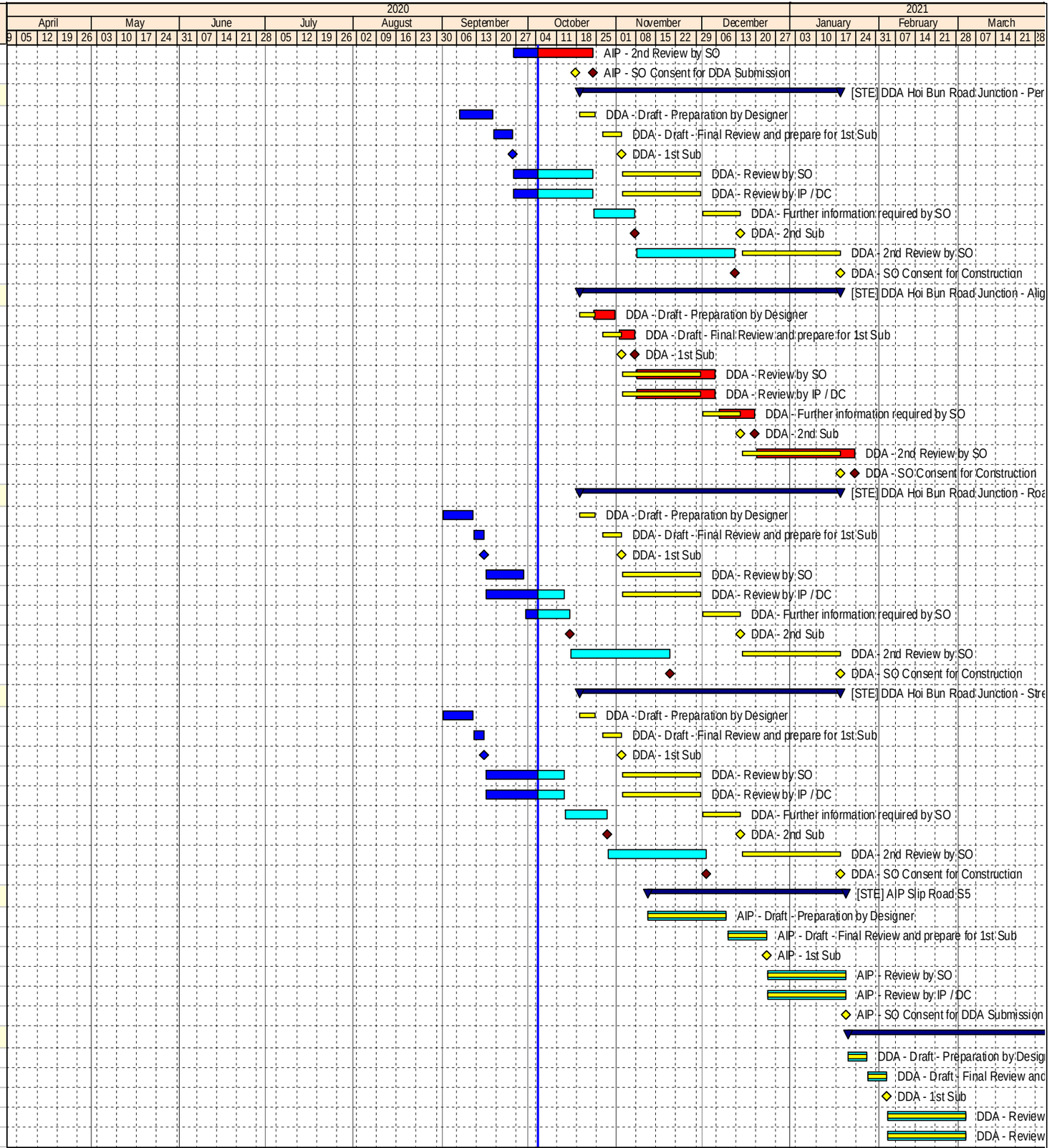
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - 2nd Review by SO	0			28	26-Sep-20 A	23-Oct-20
AIP - SO Consent for DDA Submission	0		17-Oct-20	0		23-Oct-20
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	75	19-Oct-20	18-Jan-21	81	07-Sep-20 A	12-Dec-20
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	11	07-Sep-20 A	18-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	27-Oct-20	02-Nov-20	6	19-Sep-20 A	25-Sep-20 A
DDA - 1st Sub	0		02-Nov-20	0		25-Sep-20 A
DDA - Review by SO	28	03-Nov-20	30-Nov-20	28	26-Sep-20 A	23-Oct-20
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	26-Sep-20 A	23-Oct-20
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	24-Oct-20	07-Nov-20
DDA - 2nd Sub	0		14-Dec-20	0		07-Nov-20
DDA - 2nd Review by SO	35	15-Dec-20	18-Jan-21	35	08-Nov-20	12-Dec-20
DDA - SO Consent for Construction	0		18-Jan-21	0		12-Dec-20
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	75	19-Oct-20	18-Jan-21	75	24-Oct-20	23-Jan-21
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	6	24-Oct-20	31-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	6	27-Oct-20	02-Nov-20	6	02-Nov-20	07-Nov-20
DDA - 1st Sub	0		02-Nov-20	0		07-Nov-20
DDA - Review by SO	28	03-Nov-20	30-Nov-20	28	08-Nov-20	05-Dec-20
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	08-Nov-20	05-Dec-20
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	07-Dec-20	19-Dec-20
DDA - 2nd Sub	0		14-Dec-20	0		19-Dec-20
DDA - 2nd Review by SO	35	15-Dec-20	18-Jan-21	35	20-Dec-20	23-Jan-21
DDA - SO Consent for Construction	0		18-Jan-21	0		23-Jan-21
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	75	19-Oct-20	18-Jan-21	66	01-Sep-20 A	19-Nov-20
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	10	01-Sep-20 A	11-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	27-Oct-20	02-Nov-20	3	12-Sep-20 A	15-Sep-20 A
DDA - 1st Sub	0		02-Nov-20	0		15-Sep-20 A
DDA - Review by SO	28	03-Nov-20	30-Nov-20	14	16-Sep-20 A	29-Sep-20 A
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	16-Sep-20 A	13-Oct-20
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	30-Sep-20 A	15-Oct-20
DDA - 2nd Sub	0		14-Dec-20	0		15-Oct-20
DDA - 2nd Review by SO	35	15-Dec-20	18-Jan-21	35	16-Oct-20	19-Nov-20
DDA - SO Consent for Construction	0		18-Jan-21	0		19-Nov-20
[STE] DDA Hoi Bun Road Junction - Street Lighting	75	19-Oct-20	18-Jan-21	77	01-Sep-20 A	02-Dec-20
DDA - Draft - Preparation by Designer	6	19-Oct-20	24-Oct-20	10	01-Sep-20 A	11-Sep-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	27-Oct-20	02-Nov-20	3	12-Sep-20 A	15-Sep-20 A
DDA - 1st Sub	0		02-Nov-20	0		15-Sep-20 A
DDA - Review by SO	28	03-Nov-20	30-Nov-20	28	16-Sep-20 A	13-Oct-20
DDA - Review by IP / DC	28	03-Nov-20	30-Nov-20	28	16-Sep-20 A	13-Oct-20
DDA - Further information required by SO	12	01-Dec-20	14-Dec-20	12	14-Oct-20	28-Oct-20
DDA - 2nd Sub	0		14-Dec-20	0		28-Oct-20
DDA - 2nd Review by SO	35	15-Dec-20	18-Jan-21	35	29-Oct-20	02-Dec-20
DDA - SO Consent for Construction	0		18-Jan-21	0		02-Dec-20
[STE] AIP Slip Road S5	57	12-Nov-20	20-Jan-21	57	12-Nov-20	20-Jan-21
AIP - Draft - Preparation by Designer	24	12-Nov-20	09-Dec-20	24	12-Nov-20	09-Dec-20
AIP - Draft - Final Review and prepare for 1st Sub	12	10-Dec-20	23-Dec-20	12	10-Dec-20	23-Dec-20
AIP - 1st Sub	0		23-Dec-20	0		23-Dec-20
AIP - Review by SO	28	24-Dec-20	20-Jan-21	28	24-Dec-20	20-Jan-21
AIP - Review by IP / DC	28	24-Dec-20	20-Jan-21	28	24-Dec-20	20-Jan-21
AIP - SO Consent for DDA Submission	0		20-Jan-21	0		20-Jan-21
[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
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



Milestone · Summary · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar

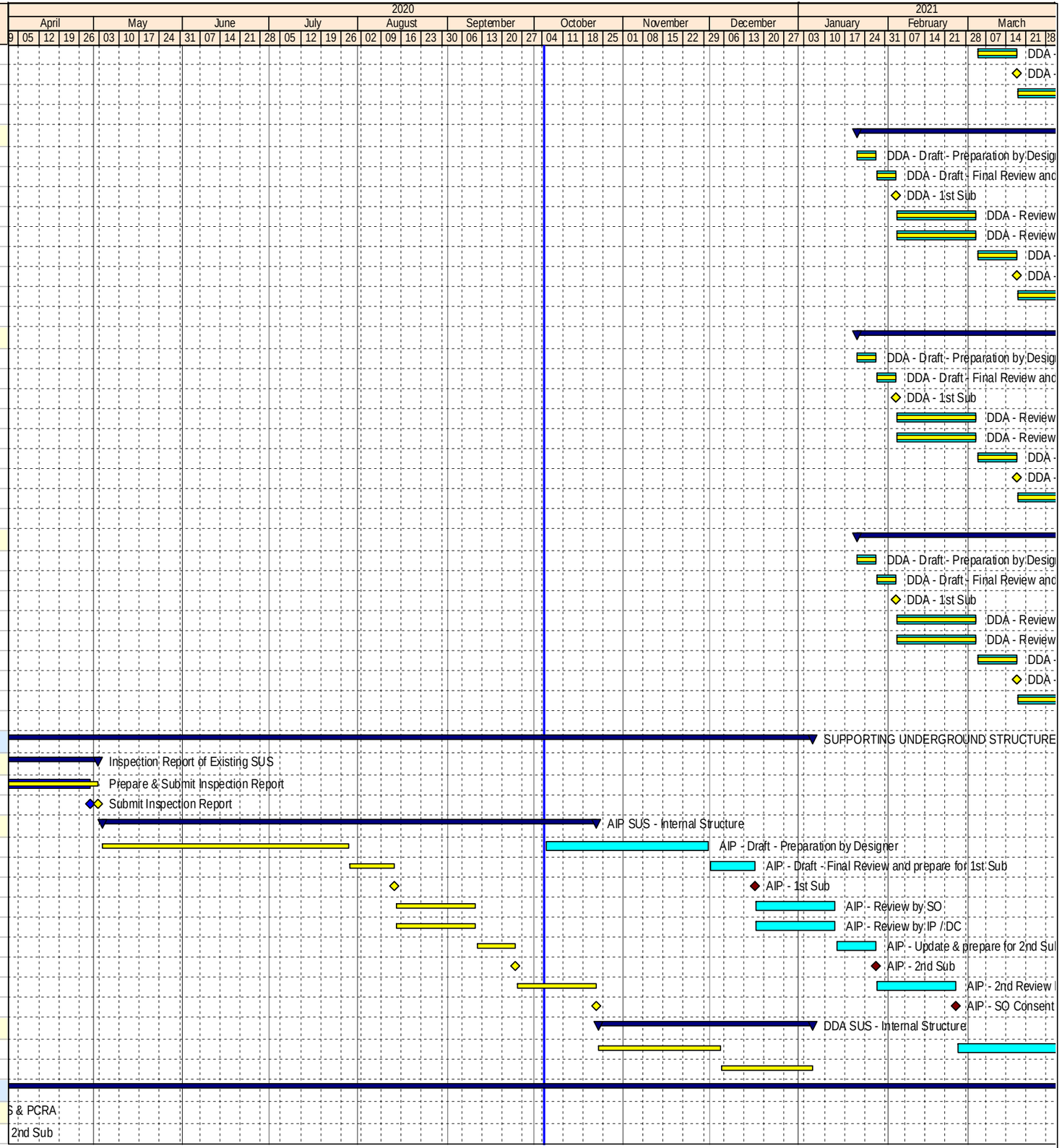
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
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
DDA - SO Consent for Construction	0		21-Apr-21	0		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 - 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
DDA - SO Consent for Construction	0		21-Apr-21	0		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 - 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
DDA - SO Consent for Construction	0		21-Apr-21	0		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
DDA - SO Consent for Construction	0		21-Apr-21	0		21-Apr-21
SUPPORTING UNDERGROUND STRUCTURE [SUS]	252	02-Mar-20	05-Jan-21	352	02-Mar-20 A	11-May-21
Inspection Report of Existing SUS	48	02-Mar-20	02-May-20	47	02-Mar-20 A	29-Apr-20 A
Prepare & Submit Inspection Report	48	02-Mar-20	02-May-20	47	02-Mar-20 A	29-Apr-20 A
Submit Inspection Report	0		02-May-20	0		29-Apr-20 A
AIP SUS - Internal Structure	144	04-May-20	22-Oct-20	116	05-Oct-20	24-Feb-21
AIP - Draft - Preparation by Designer	72	04-May-20	28-Jul-20	48	05-Oct-20	30-Nov-20
AIP - Draft - Final Review and prepare for 1st Sub	14	29-Jul-20	13-Aug-20	14	01-Dec-20	16-Dec-20
AIP - 1st Sub	0		13-Aug-20	0		16-Dec-20
AIP - Review by SO	28	14-Aug-20	10-Sep-20	28	17-Dec-20	13-Jan-21
AIP - Review by IP / DC	28	14-Aug-20	10-Sep-20	28	17-Dec-20	13-Jan-21
AIP - Update & prepare for 2nd Sub	12	11-Sep-20	24-Sep-20	12	14-Jan-21	27-Jan-21
AIP - 2nd Sub	0		24-Sep-20	0		27-Jan-21
AIP - 2nd Review by SO	28	25-Sep-20	22-Oct-20	28	28-Jan-21	24-Feb-21
AIP - SO Consent for DDA Submission	0		22-Oct-20	0		24-Feb-21
DDA SUS - Internal Structure	60	23-Oct-20	05-Jan-21	60	25-Feb-21	11-May-21
DDA - Draft - Preparation by Designer	36	23-Oct-20	04-Dec-20	36	25-Feb-21	12-Apr-21
DDA - Draft - Final Review and prepare for 1st Sub	24	05-Dec-20	05-Jan-21	24	13-Apr-21	11-May-21
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	424	09-Jan-20	17-Jun-21	351	17-Jan-20 A	24-Mar-21
AIP - C&C/LS ELS & PCRA	31	20-Jan-20	27-Feb-20	28	17-Jan-20 A	21-Feb-20 A
AIP - Update & prepare for 2nd Sub	7	20-Jan-20	30-Jan-20	20	17-Jan-20 A	12-Feb-20 A



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

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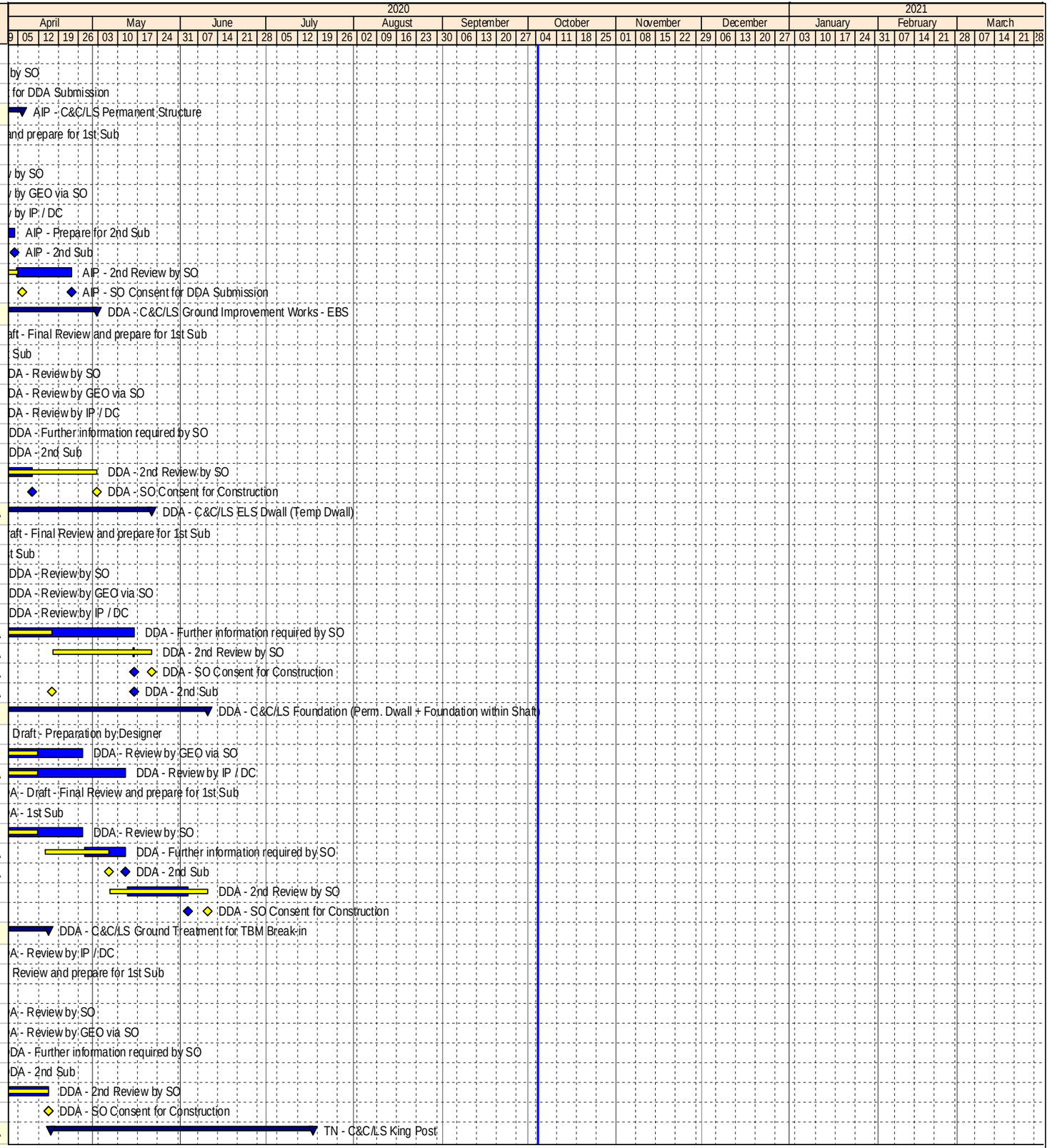
05-Nov-19	00V0	WYu	
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - 2nd Sub	0		30-Jan-20	0		12-Feb-20 A
AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	9	13-Feb-20 A	21-Feb-20 A
AIP - SO Consent for DDA Submission	0		27-Feb-20	0		21-Feb-20 A
AIP - C&C/LS Permanent Structure	71	09-Jan-20	06-Apr-20	59	11-Feb-20 A	23-Apr-20 A
AIP - Draft - Final Review and prepare for 1st Sub	18	09-Jan-20	01-Feb-20	2	11-Feb-20 A	12-Feb-20 A
AIP - 1st Sub	0		01-Feb-20	0		12-Feb-20 A
AIP - Review by SO	28	02-Feb-20	29-Feb-20	24	13-Feb-20 A	07-Mar-20 A
AIP - Review by GEO via SO	28	02-Feb-20	29-Feb-20	24	13-Feb-20 A	07-Mar-20 A
AIP - Review by IP / DC	28	02-Feb-20	29-Feb-20	24	13-Feb-20 A	07-Mar-20 A
AIP - Prepare for 2nd Sub	7	01-Mar-20	07-Mar-20	27	08-Mar-20 A	03-Apr-20 A
AIP - 2nd Sub	0		07-Mar-20	0		03-Apr-20 A
AIP - 2nd Review by SO	28	08-Mar-20	04-Apr-20	20	04-Apr-20 A	23-Apr-20 A
AIP - SO Consent for DDA Submission	0		06-Apr-20	0		23-Apr-20 A
DDA - C&C/LS Ground Improvement Works - EBS	66	10-Feb-20	02-May-20	30	05-Mar-20 A	09-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	10-Feb-20	22-Feb-20	7	05-Mar-20 A	12-Mar-20 A
DDA - 1st Sub	0		22-Feb-20	0		12-Mar-20 A
DDA - Review by SO	28	23-Feb-20	21-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Review by GEO via SO	28	23-Feb-20	21-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Review by IP / DC	28	23-Feb-20	21-Mar-20	13	13-Mar-20 A	25-Mar-20 A
DDA - Further information required by SO	6	23-Mar-20	28-Mar-20	1	26-Mar-20 A	26-Mar-20 A
DDA - 2nd Sub	0		28-Mar-20	0		26-Mar-20 A
DDA - 2nd Review by SO	35	29-Mar-20	02-May-20	14	27-Mar-20 A	09-Apr-20 A
DDA - SO Consent for Construction	0		02-May-20	0		09-Apr-20 A
DDA - C&C/LS ELS Dwall (Temp Dwall)	82	10-Feb-20	21-May-20	49	13-Mar-20 A	15-May-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	10-Feb-20	29-Feb-20	1	13-Mar-20 A	13-Mar-20 A
DDA - 1st Sub	0		29-Feb-20	0		13-Mar-20 A
DDA - Review by SO	28	01-Mar-20	28-Mar-20	5	14-Mar-20 A	18-Mar-20 A
DDA - Review by GEO via SO	28	01-Mar-20	28-Mar-20	5	14-Mar-20 A	18-Mar-20 A
DDA - Review by IP / DC	28	01-Mar-20	28-Mar-20	5	14-Mar-20 A	18-Mar-20 A
DDA - Further information required by SO	12	30-Mar-20	16-Apr-20	44	19-Mar-20 A	15-May-20 A
DDA - 2nd Review by SO	35	17-Apr-20	21-May-20	1	15-May-20 A	15-May-20 A
DDA - SO Consent for Construction	0		21-May-20	0		15-May-20 A
DDA - 2nd Sub	0		16-Apr-20	0		15-May-20 A
DDA - C&C/LS Foundation (Perm. Dwall + Foundation withi	105	03-Feb-20	10-Jun-20	99	03-Feb-20 A	03-Jun-20 A
DDA - Draft - Preparation by Designer	24	03-Feb-20	29-Feb-20	39	03-Feb-20 A	18-Mar-20 A
DDA - Review by GEO via SO	28	15-Mar-20	11-Apr-20	44	15-Mar-20 A	27-Apr-20 A
DDA - Review by IP / DC	28	15-Mar-20	11-Apr-20	59	15-Mar-20 A	12-May-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	02-Mar-20	14-Mar-20	4	19-Mar-20 A	23-Mar-20 A
DDA - 1st Sub	0		14-Mar-20	0		23-Mar-20 A
DDA - Review by SO	28	15-Mar-20	11-Apr-20	35	24-Mar-20 A	27-Apr-20 A
DDA - Further information required by SO	18	14-Apr-20	06-May-20	11	28-Apr-20 A	12-May-20 A
DDA - 2nd Sub	0		06-May-20	0		12-May-20 A
DDA - 2nd Review by SO	35	07-May-20	10-Jun-20	22	13-May-20 A	03-Jun-20 A
DDA - SO Consent for Construction	0		10-Jun-20	0		03-Jun-20 A
DDA - C&C/LS Ground Treatment for TBM Break-in	71	16-Jan-20	15-Apr-20	65	23-Jan-20 A	15-Apr-20 A
DDA - Review by IP / DC	28	23-Jan-20	19-Feb-20	61	23-Jan-20 A	23-Mar-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	16-Jan-20	22-Jan-20	1	26-Feb-20 A	26-Feb-20 A
DDA - 1st Sub	0		22-Jan-20	0		26-Feb-20 A
DDA - Review by SO	28	23-Jan-20	19-Feb-20	26	27-Feb-20 A	23-Mar-20 A
DDA - Review by GEO via SO	28	23-Jan-20	19-Feb-20	26	27-Feb-20 A	23-Mar-20 A
DDA - Further information required by SO	18	20-Feb-20	11-Mar-20	3	24-Mar-20 A	26-Mar-20 A
DDA - 2nd Sub	0		11-Mar-20	0		26-Mar-20 A
DDA - 2nd Review by SO	35	12-Mar-20	15-Apr-20	20	27-Mar-20 A	15-Apr-20 A
DDA - SO Consent for Construction	0		15-Apr-20	0		15-Apr-20 A
TN - C&C/LS King Post	76	16-Apr-20	17-Jul-20	75	25-May-20 A	21-Aug-20 A



Milestone
Planned Bar
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Summary

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

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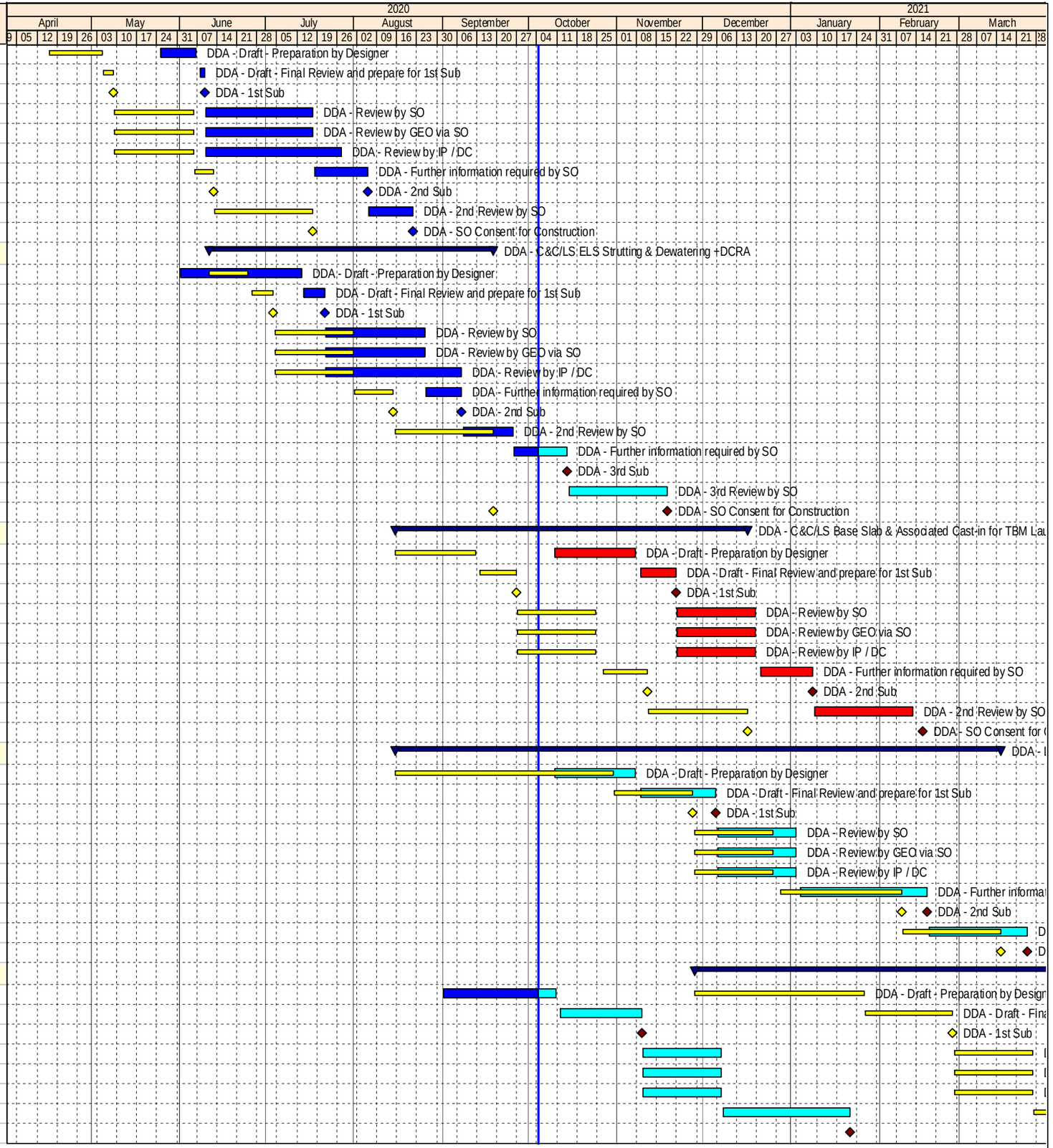
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Draft - Preparation by Designer	14	16-Apr-20	04-May-20	12	25-May-20 A	06-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	4	05-May-20	08-May-20	2	08-Jun-20 A	09-Jun-20 A
DDA - 1st Sub	0		08-May-20	0		09-Jun-20 A
DDA - Review by SO	28	09-May-20	05-Jun-20	38	10-Jun-20 A	17-Jul-20 A
DDA - Review by GEO via SO	28	09-May-20	05-Jun-20	38	10-Jun-20 A	17-Jul-20 A
DDA - Review by IP / DC	28	09-May-20	05-Jun-20	48	10-Jun-20 A	27-Jul-20 A
DDA - Further information required by SO	6	06-Jun-20	12-Jun-20	16	18-Jul-20 A	05-Aug-20 A
DDA - 2nd Sub	0		12-Jun-20	0		05-Aug-20 A
DDA - 2nd Review by SO	35	13-Jun-20	17-Jul-20	16	06-Aug-20 A	21-Aug-20 A
DDA - SO Consent for Construction	0		17-Jul-20	0		21-Aug-20 A
DDA - C&C/LS ELS Strutting & Dewatering +DCRA	84	11-Jun-20	18-Sep-20	142	01-Jun-20 A	18-Nov-20
DDA - Draft - Preparation by Designer	12	11-Jun-20	24-Jun-20	35	01-Jun-20 A	13-Jul-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	26-Jun-20	03-Jul-20	7	14-Jul-20 A	21-Jul-20 A
DDA - 1st Sub	0		03-Jul-20	0		21-Jul-20 A
DDA - Review by SO	28	04-Jul-20	31-Jul-20	35	22-Jul-20 A	25-Aug-20 A
DDA - Review by GEO via SO	28	04-Jul-20	31-Jul-20	35	22-Jul-20 A	25-Aug-20 A
DDA - Review by IP / DC	28	04-Jul-20	31-Jul-20	48	22-Jul-20 A	07-Sep-20 A
DDA - Further information required by SO	12	01-Aug-20	14-Aug-20	11	26-Aug-20 A	07-Sep-20 A
DDA - 2nd Sub	0		14-Aug-20	0		07-Sep-20 A
DDA - 2nd Review by SO	35	15-Aug-20	18-Sep-20	18	08-Sep-20 A	25-Sep-20 A
DDA - Further information required by SO	0			14	26-Sep-20 A	14-Oct-20
DDA - 3rd Sub	0			0		14-Oct-20
DDA - 3rd Review by SO	0			35	15-Oct-20	18-Nov-20
DDA - SO Consent for Construction	0		18-Sep-20	0		18-Nov-20
DDA - C&C/LS Base Slab & Associated Cast-in for TBM La	103	15-Aug-20	16-Dec-20	103	10-Oct-20	16-Feb-21
DDA - Draft - Preparation by Designer	25	15-Aug-20	12-Sep-20	24	10-Oct-20	07-Nov-20
DDA - Draft - Final Review and prepare for 1st Sub	12	14-Sep-20	26-Sep-20	12	09-Nov-20	21-Nov-20
DDA - 1st Sub	0		26-Sep-20	0		21-Nov-20
DDA - Review by SO	28	27-Sep-20	24-Oct-20	28	22-Nov-20	19-Dec-20
DDA - Review by GEO via SO	28	27-Sep-20	24-Oct-20	28	22-Nov-20	19-Dec-20
DDA - Review by IP / DC	28	27-Sep-20	24-Oct-20	28	22-Nov-20	19-Dec-20
DDA - Further information required by SO	14	27-Oct-20	11-Nov-20	14	21-Dec-20	08-Jan-21
DDA - 2nd Sub	0		11-Nov-20	0		08-Jan-21
DDA - 2nd Review by SO	35	12-Nov-20	16-Dec-20	35	09-Jan-21	12-Feb-21
DDA - SO Consent for Construction	0		16-Dec-20	0		16-Feb-21
DDA - LS Tympanum Structure for TBM Launching	173	15-Aug-20	15-Mar-21	135	10-Oct-20	24-Mar-21
DDA - Draft - Preparation by Designer	63	15-Aug-20	30-Oct-20	24	10-Oct-20	07-Nov-20
DDA - Draft - Final Review and prepare for 1st Sub	24	31-Oct-20	27-Nov-20	24	09-Nov-20	05-Dec-20
DDA - 1st Sub	0		27-Nov-20	0		05-Dec-20
DDA - Review by SO	28	28-Nov-20	25-Dec-20	28	06-Dec-20	02-Jan-21
DDA - Review by GEO via SO	28	28-Nov-20	25-Dec-20	28	06-Dec-20	02-Jan-21
DDA - Review by IP / DC	28	28-Nov-20	25-Dec-20	28	06-Dec-20	02-Jan-21
DDA - Further information required by SO	36	28-Dec-20	08-Feb-21	36	04-Jan-21	17-Feb-21
DDA - 2nd Sub	0		08-Feb-21	0		17-Feb-21
DDA - 2nd Review by SO	35	09-Feb-21	15-Mar-21	35	18-Feb-21	24-Mar-21
DDA - SO Consent for Construction	0		15-Mar-21	0		24-Mar-21
DDA - C&C/LS Permanent Structure	160	28-Nov-20	17-Jun-21	144	01-Sep-20 A	25-Feb-21
DDA - Draft - Preparation by Designer	48	28-Nov-20	26-Jan-21	33	01-Sep-20 A	10-Oct-20
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Jan-21	26-Feb-21	24	12-Oct-20	09-Nov-20
DDA - 1st Sub	0		26-Feb-21	0		09-Nov-20
DDA - Review by SO	28	27-Feb-21	26-Mar-21	28	10-Nov-20	07-Dec-20
DDA - Review by GEO via SO	28	27-Feb-21	26-Mar-21	28	10-Nov-20	07-Dec-20
DDA - Review by IP / DC	28	27-Feb-21	26-Mar-21	28	10-Nov-20	07-Dec-20
DDA - Further information required by SO	36	27-Mar-21	13-May-21	36	08-Dec-20	21-Jan-21
DDA - 2nd Sub	0		13-May-21	0		21-Jan-21



Milestone
Planned Bar
Critical Activity
Actual Milestone
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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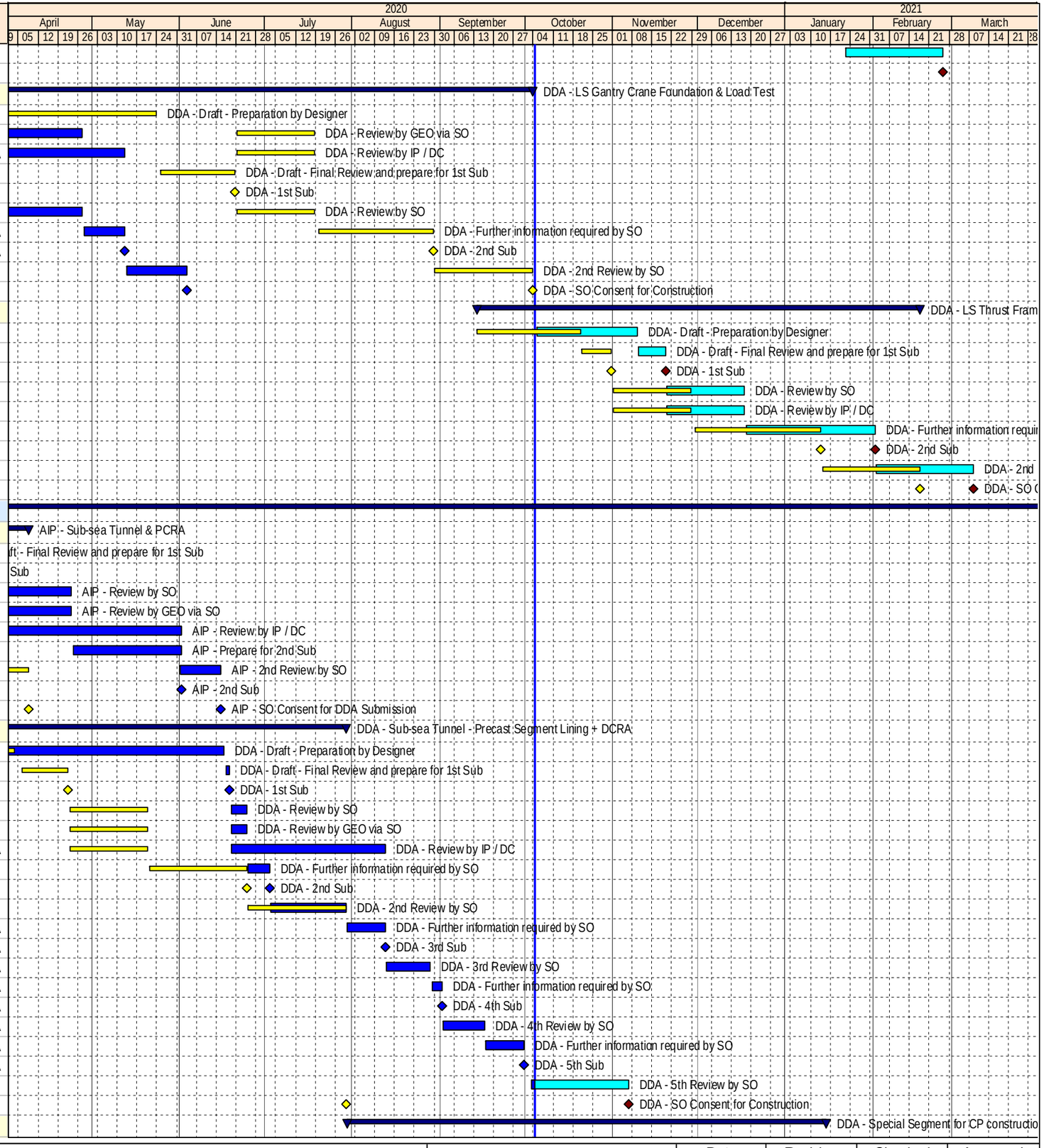
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - 2nd Review by SO	35	14-May-21	17-Jun-21	35	22-Jan-21	25-Feb-21
DDA - SO Consent for Construction	0		17-Jun-21	0		25-Feb-21
DDA - LS Gantry Crane Foundation & Load Test	164	16-Mar-20	03-Oct-20	99	03-Feb-20 A	03-Jun-20 A
DDA - Draft - Preparation by Designer	54	16-Mar-20	23-May-20	39	03-Feb-20 A	18-Mar-20 A
DDA - Review by GEO via SO	28	21-Jun-20	18-Jul-20	44	15-Mar-20 A	27-Apr-20 A
DDA - Review by IP / DC	28	21-Jun-20	18-Jul-20	59	15-Mar-20 A	12-May-20 A
DDA - Draft - Final Review and prepare for 1st Sub	24	25-May-20	20-Jun-20	4	19-Mar-20 A	23-Mar-20 A
DDA - 1st Sub	0		20-Jun-20	0		23-Mar-20 A
DDA - Review by SO	28	21-Jun-20	18-Jul-20	35	24-Mar-20 A	27-Apr-20 A
DDA - Further information required by SO	36	20-Jul-20	29-Aug-20	11	28-Apr-20 A	12-May-20 A
DDA - 2nd Sub	0		29-Aug-20	0		12-May-20 A
DDA - 2nd Review by SO	35	30-Aug-20	03-Oct-20	22	13-May-20 A	03-Jun-20 A
DDA - SO Consent for Construction	0		03-Oct-20	0		03-Jun-20 A
DDA - LS Thrust Frame / Blocks for TBM Launching	126	14-Sep-20	17-Feb-21	126	05-Oct-20	08-Mar-21
DDA - Draft - Preparation by Designer	30	14-Sep-20	20-Oct-20	30	05-Oct-20*	09-Nov-20
DDA - Draft - Final Review and prepare for 1st Sub	9	21-Oct-20	31-Oct-20	9	10-Nov-20	19-Nov-20
DDA - 1st Sub	0		31-Oct-20	0		19-Nov-20
DDA - Review by SO	28	01-Nov-20	28-Nov-20	28	20-Nov-20	17-Dec-20
DDA - Review by IP / DC	28	01-Nov-20	28-Nov-20	28	20-Nov-20	17-Dec-20
DDA - Further information required by SO	36	30-Nov-20	13-Jan-21	36	18-Dec-20	01-Feb-21
DDA - 2nd Sub	0		13-Jan-21	0		01-Feb-21
DDA - 2nd Review by SO	35	14-Jan-21	17-Feb-21	35	02-Feb-21	08-Mar-21
DDA - SO Consent for Construction	0		17-Feb-21	0		08-Mar-21
SUB-SEA TBM TUNNEL	396	08-Jan-20	12-May-21	372	01-Feb-20 A	05-May-21
AIP - Sub-sea Tunnel & PCRA	75	08-Jan-20	08-Apr-20	80	07-Mar-20 A	15-Jun-20 A
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 - 1st Sub	0		31-Jan-20	0		13-Mar-20 A
AIP - Review by SO	28	01-Feb-20	28-Feb-20	41	14-Mar-20 A	23-Apr-20 A
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 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 - 2nd Review by SO	28	12-Mar-20	08-Apr-20	15	01-Jun-20 A	15-Jun-20 A
AIP - 2nd Sub	0		11-Mar-20	0		01-Jun-20 A
AIP - SO Consent for DDA Submission	0		08-Apr-20	0		15-Jun-20 A
DDA - Sub-sea Tunnel - Precast Segment Lining + DCRA	146	01-Feb-20	29-Jul-20	229	01-Feb-20 A	06-Nov-20
DDA - Draft - Preparation by Designer	54	01-Feb-20	03-Apr-20	111	01-Feb-20 A	16-Jun-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Apr-20	22-Apr-20	2	17-Jun-20 A	18-Jun-20 A
DDA - 1st Sub	0		22-Apr-20	0		18-Jun-20 A
DDA - Review by SO	28	23-Apr-20	20-May-20	6	19-Jun-20 A	24-Jun-20 A
DDA - Review by GEO via SO	28	23-Apr-20	20-May-20	6	19-Jun-20 A	24-Jun-20 A
DDA - Review by IP / DC	28	23-Apr-20	20-May-20	55	19-Jun-20 A	12-Aug-20 A
DDA - Further information required by SO	30	21-May-20	24-Jun-20	5	25-Jun-20 A	02-Jul-20 A
DDA - 2nd Sub	0		24-Jun-20	0		02-Jul-20 A
DDA - 2nd Review by SO	35	25-Jun-20	29-Jul-20	27	03-Jul-20 A	29-Jul-20 A
DDA - Further information required by SO	0			12	30-Jul-20 A	12-Aug-20 A
DDA - 3rd Sub	0			0		12-Aug-20 A
DDA - 3rd Review by SO	0			16	13-Aug-20 A	28-Aug-20 A
DDA - Further information required by SO	0			3	29-Aug-20 A	01-Sep-20 A
DDA - 4th Sub	0			0		01-Sep-20 A
DDA - 4th Review by SO	0			15	02-Sep-20 A	16-Sep-20 A
DDA - Further information required by SO	0			12	17-Sep-20 A	30-Sep-20 A
DDA - 5th Sub	0			0		30-Sep-20 A
DDA - 5th Review by SO	0			35	03-Oct-20 A	06-Nov-20
DDA - SO Consent for Construction	0		29-Jul-20	0		06-Nov-20
DDA - Special Segment for CP construction	140	30-Jul-20	15-Jan-21	134	07-Nov-20	23-Apr-21



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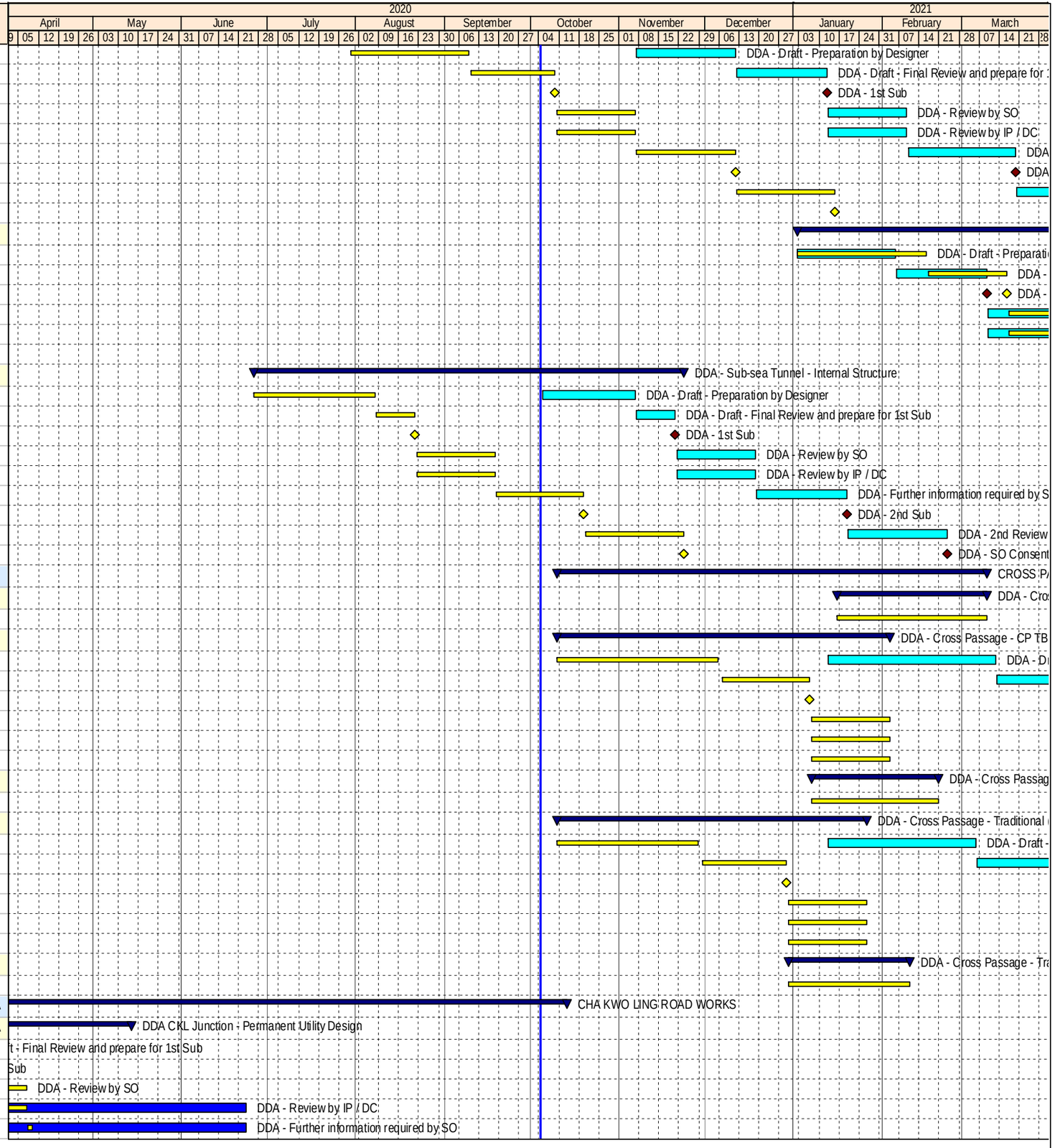
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Draft - Preparation by Designer	36	30-Jul-20	09-Sep-20	30	07-Nov-20	11-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	24	12-Dec-20	12-Jan-21
DDA - 1st Sub	0		09-Oct-20	0		12-Jan-21
DDA - Review by SO	28	10-Oct-20	06-Nov-20	28	13-Jan-21	09-Feb-21
DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	28	13-Jan-21	09-Feb-21
DDA - Further information required by SO	30	07-Nov-20	11-Dec-20	30	10-Feb-21	19-Mar-21
DDA - 2nd Sub	0		11-Dec-20	0		19-Mar-21
DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	35	20-Mar-21	23-Apr-21
DDA - SO Consent for Construction	0		15-Jan-21	0		23-Apr-21
DDA - Sub-sea Tunnel - TBM Confinement	104	02-Jan-21	12-May-21	98	02-Jan-21	05-May-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 - Further information required by SO	24	14-Apr-21	12-May-21	24	07-Apr-21	05-May-21
DDA - Sub-sea Tunnel - Internal Structure	125	26-Jun-20	23-Nov-20	115	05-Oct-20	23-Feb-21
DDA - Draft - Preparation by Designer	36	26-Jun-20	07-Aug-20	28	05-Oct-20	06-Nov-20
DDA - Draft - Final Review and prepare for 1st Sub	12	08-Aug-20	21-Aug-20	12	07-Nov-20	20-Nov-20
DDA - 1st Sub	0		21-Aug-20	0		20-Nov-20
DDA - Review by SO	28	22-Aug-20	18-Sep-20	28	21-Nov-20	18-Dec-20
DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20	28	21-Nov-20	18-Dec-20
DDA - Further information required by SO	24	19-Sep-20	19-Oct-20	24	19-Dec-20	19-Jan-21
DDA - 2nd Sub	0		19-Oct-20	0		19-Jan-21
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	35	20-Jan-21	23-Feb-21
DDA - SO Consent for Construction	0		23-Nov-20	0		23-Feb-21
CROSS PASSAGE	122	10-Oct-20	09-Mar-21	122	13-Jan-21	15-Jun-21
DDA - Cross Passage - CP Tympanum	42	16-Jan-21	09-Mar-21	42	24-Apr-21	15-Jun-21
DDA - Draft - Preparation by Designer	42	16-Jan-21	09-Mar-21	42	24-Apr-21	15-Jun-21
DDA - Cross Passage - CP TBM Jacking Pipes	96	10-Oct-20	03-Feb-21	95	13-Jan-21	12-May-21
DDA - Draft - Preparation by Designer	48	10-Oct-20	05-Dec-20	48	13-Jan-21	12-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Dec-20	06-Jan-21	24	13-Mar-21	14-Apr-21
DDA - 1st Sub	0		06-Jan-21	0		14-Apr-21
DDA - Review by SO	28	07-Jan-21	03-Feb-21	28	15-Apr-21	12-May-21
DDA - Review by GEO via SO	28	07-Jan-21	03-Feb-21	28	15-Apr-21	12-May-21
DDA - Review by IP / DC	28	07-Jan-21	03-Feb-21	28	15-Apr-21	12-May-21
DDA - Cross Passage - CP TBM Confinement	36	07-Jan-21	20-Feb-21	36	15-Apr-21	28-May-21
DDA - Draft - Preparation by Designer	36	07-Jan-21	20-Feb-21	36	15-Apr-21	28-May-21
DDA - Cross Passage - Traditional (CP28 & 29) - Temp Sup	89	10-Oct-20	26-Jan-21	89	13-Jan-21	05-May-21
DDA - Draft - Preparation by Designer	42	10-Oct-20	28-Nov-20	42	13-Jan-21	05-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	24	06-Mar-21	07-Apr-21
DDA - 1st Sub	0		29-Dec-20	0		07-Apr-21
DDA - Review by SO	28	30-Dec-20	26-Jan-21	28	08-Apr-21	05-May-21
DDA - Review by GEO via SO	28	30-Dec-20	26-Jan-21	28	08-Apr-21	05-May-21
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	28	08-Apr-21	05-May-21
DDA - Cross Passage - Traditional - Lining Structure	36	30-Dec-20	10-Feb-21	36	08-Apr-21	21-May-21
DDA - Draft - Preparation by Designer	36	30-Dec-20	10-Feb-21	36	08-Apr-21	21-May-21
CHA KWO LING ROAD WORKS	212	29-Jan-20	13-Oct-20	203	29-Jan-20 A	30-Sep-20 A
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	11-Mar-20 A	26-Mar-20 A
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	105	11-Mar-20 A	23-Jun-20 A
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	70	27-Mar-20 A	23-Jun-20 A



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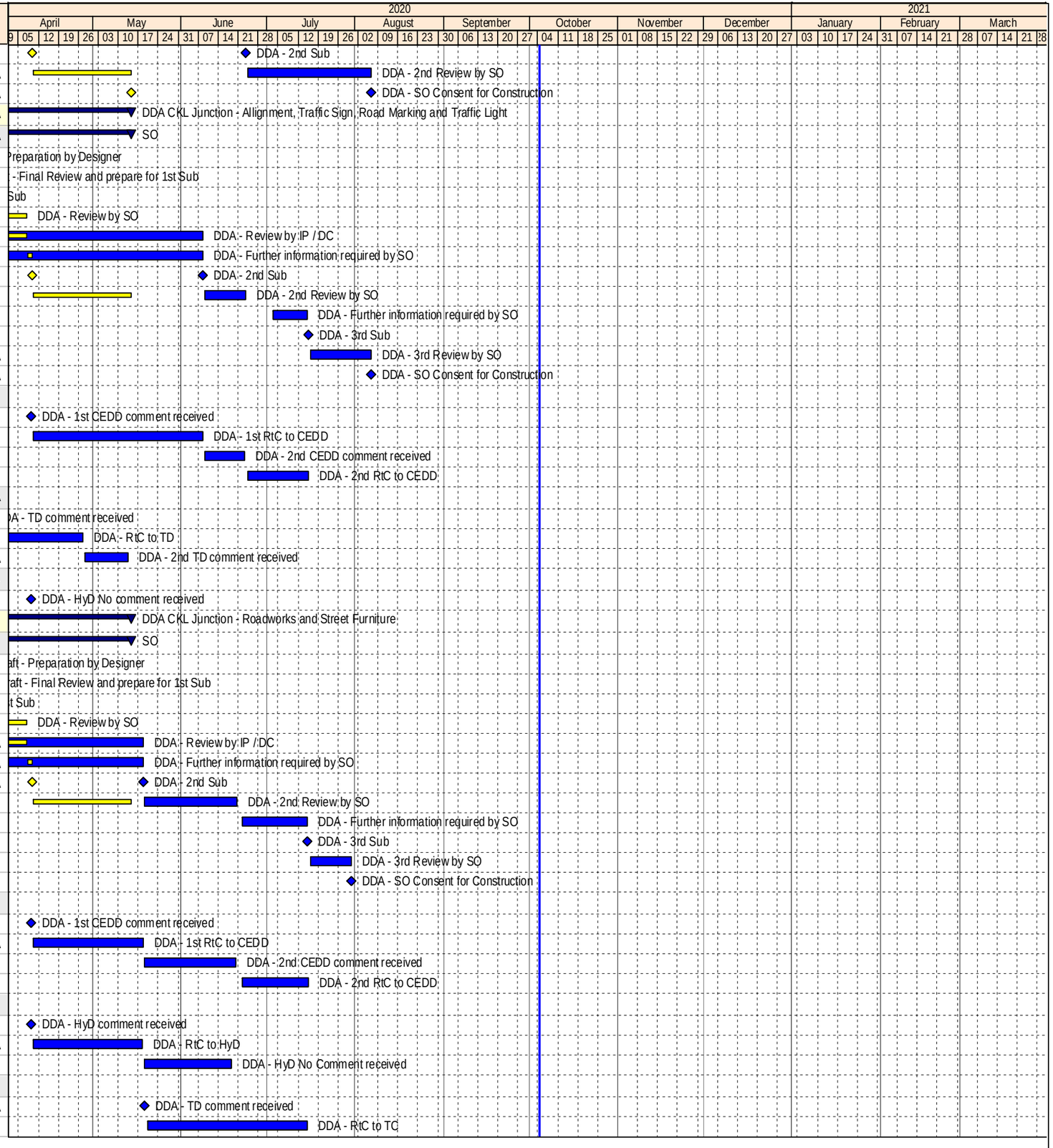
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - 2nd Sub	0		09-Apr-20	0		23-Jun-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	44	24-Jun-20 A	06-Aug-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	04-Mar-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
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	91	10-Mar-20 A	08-Jun-20 A
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	57	27-Mar-20 A	08-Jun-20 A
DDA - 2nd Sub	0		09-Apr-20	0		08-Jun-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	15	09-Jun-20 A	23-Jun-20 A
DDA - Further information required by SO	0			12	03-Jul-20 A	15-Jul-20 A
DDA - 3rd Sub	0			0		15-Jul-20 A
DDA - 3rd Review by SO	0			22	16-Jul-20 A	06-Aug-20 A
DDA - SO Consent for Construction	0			0		06-Aug-20 A
CEDD	0			77	09-Apr-20 A	15-Jul-20 A
DDA - 1st CEDD comment received	0			0		09-Apr-20 A
DDA - 1st RtC to CEDD	0			60	10-Apr-20 A	08-Jun-20 A
DDA - 2nd CEDD comment received	0			12	09-Jun-20 A	23-Jun-20 A
DDA - 2nd RtC to CEDD	0			22	24-Jun-20 A	15-Jul-20 A
TD	0			37	24-Mar-20 A	13-May-20 A
DDA - TD comment received	0			0		24-Mar-20 A
DDA - RtC to TD	0			34	25-Mar-20 A	27-Apr-20 A
DDA - 2nd TD comment received	0			11	28-Apr-20 A	13-May-20 A
HyD	0			0	09-Apr-20 A	09-Apr-20 A
DDA - HyD No comment received	0			0		09-Apr-20 A
DDA CKL Junction - Roadworks and Street Furniture	86	29-Jan-20	14-May-20	150	29-Jan-20 A	30-Jul-20 A
SO	86	29-Jan-20	14-May-20	150	29-Jan-20 A	30-Jul-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 - Final Review and prepare for 1st Sub	12	26-Feb-20	10-Mar-20	1	13-Mar-20 A	13-Mar-20 A
DDA - 1st Sub	0		10-Mar-20	0		13-Mar-20 A
DDA - Review by SO	28	11-Mar-20	07-Apr-20	13	14-Mar-20 A	26-Mar-20 A
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	66	14-Mar-20 A	18-May-20 A
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	39	27-Mar-20 A	18-May-20 A
DDA - 2nd Sub	0		09-Apr-20	0		18-May-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	33	19-May-20 A	20-Jun-20 A
DDA - Further information required by SO	0			23	22-Jun-20 A	15-Jul-20 A
DDA - 3rd Sub	0			0		15-Jul-20 A
DDA - 3rd Review by SO	0			15	16-Jul-20 A	30-Jul-20 A
DDA - SO Consent for Construction	0			0		30-Jul-20 A
CEDD	0			77	09-Apr-20 A	15-Jul-20 A
DDA - 1st CEDD comment received	0			0		09-Apr-20 A
DDA - 1st RtC to CEDD	0			39	10-Apr-20 A	18-May-20 A
DDA - 2nd CEDD comment received	0			28	19-May-20 A	20-Jun-20 A
DDA - 2nd RtC to CEDD	0			24	22-Jun-20 A	15-Jul-20 A
HyD	0			56	09-Apr-20 A	18-Jun-20 A
DDA - HyD comment received	0			0		09-Apr-20 A
DDA - RtC to HyD	0			38	10-Apr-20 A	18-May-20 A
DDA - HyD No Comment received	0			31	19-May-20 A	18-Jun-20 A
TD	0			47	19-May-20 A	15-Jul-20 A
DDA - TD comment received	0			0		19-May-20 A
DDA - RtC to TC	0			56	20-May-20 A	15-Jul-20 A



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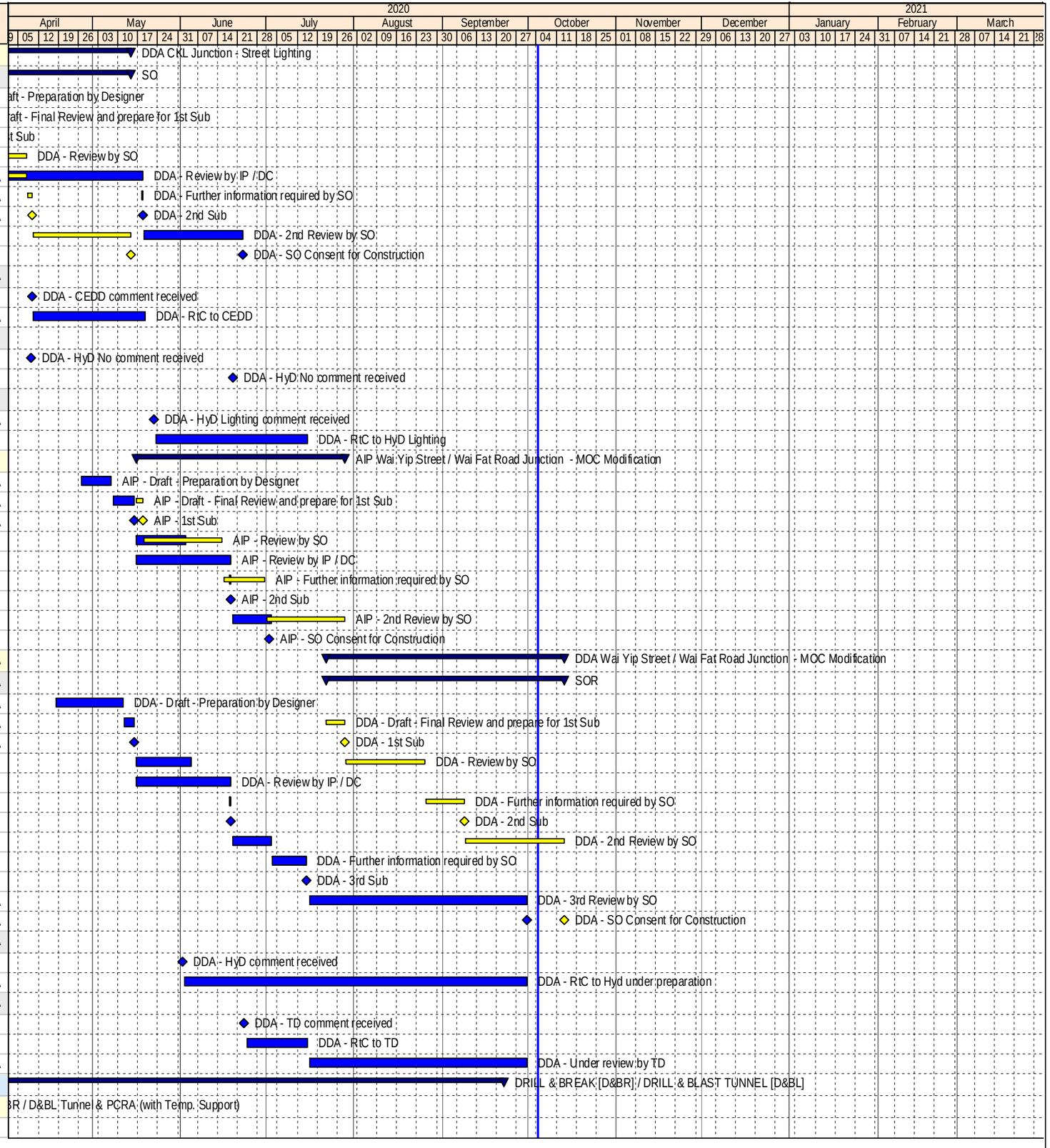
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA CKL Junction - Street Lighting	86	29-Jan-20	14-May-20	137	29-Jan-20 A	15-Jul-20 A
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 - Final Review and prepare for 1st Sub	12	26-Feb-20	10-Mar-20	1	13-Mar-20 A	13-Mar-20 A
DDA - 1st Sub	0		10-Mar-20	0		13-Mar-20 A
DDA - Review by SO	28	11-Mar-20	07-Apr-20	13	14-Mar-20 A	26-Mar-20 A
DDA - Review by IP / DC	28	11-Mar-20	07-Apr-20	66	14-Mar-20 A	18-May-20 A
DDA - Further information required by SO	2	08-Apr-20	09-Apr-20	1	18-May-20 A	18-May-20 A
DDA - 2nd Sub	0		09-Apr-20	0		18-May-20 A
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
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
HyD	0			56	09-Apr-20 A	19-Jun-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	15-Jul-20 A
DDA - HyD Lighting comment received	0			0		22-May-20 A
DDA - RtC to HyD Lighting	0			54	23-May-20 A	15-Jul-20 A
AIP Wai Yip Street / Wai Fat Road Junction - MOC Modifica	61	16-May-20	28-Jul-20	54	27-Apr-20 A	02-Jul-20 A
AIP - Draft - Preparation by Designer	0			8	27-Apr-20 A	07-May-20 A
AIP - Draft - Final Review and prepare for 1st Sub	2	16-May-20	18-May-20	7	08-May-20 A	15-May-20 A
AIP - 1st Sub	0		18-May-20	0		15-May-20 A
AIP - Review by SO	28	19-May-20	15-Jun-20	18	16-May-20 A	02-Jun-20 A
AIP - Review by IP / DC	0			34	16-May-20 A	18-Jun-20 A
AIP - Further information required by SO	12	16-Jun-20	30-Jun-20	1	18-Jun-20 A	18-Jun-20 A
AIP - 2nd Sub	0			0		18-Jun-20 A
AIP - 2nd Review by SO	28	01-Jul-20	28-Jul-20	14	19-Jun-20 A	02-Jul-20 A
AIP - SO Consent for Construction	0			0		02-Jul-20 A
DDA Wai Yip Street / Wai Fat Road Junction - MOC Modific	70	22-Jul-20	13-Oct-20	138	18-Apr-20 A	30-Sep-20 A
SOR	70	22-Jul-20	13-Oct-20	138	18-Apr-20 A	30-Sep-20 A
DDA - Draft - Preparation by Designer	0			18	18-Apr-20 A	11-May-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	22-Jul-20	28-Jul-20	4	12-May-20 A	15-May-20 A
DDA - 1st Sub	0		28-Jul-20	0		15-May-20 A
DDA - Review by SO	28	29-Jul-20	25-Aug-20	20	16-May-20 A	04-Jun-20 A
DDA - Review by IP / DC	0			34	16-May-20 A	18-Jun-20 A
DDA - Further information required by SO	12	26-Aug-20	08-Sep-20	1	18-Jun-20 A	18-Jun-20 A
DDA - 2nd Sub	0		08-Sep-20	0		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 - Further information required by SO	0			12	03-Jul-20 A	15-Jul-20 A
DDA - 3rd Sub	0			0		15-Jul-20 A
DDA - 3rd Review by SO	0			77	16-Jul-20 A	30-Sep-20 A
DDA - SO Consent for Construction	0		13-Oct-20	0		30-Sep-20 A
HyD	0			102	01-Jun-20 A	30-Sep-20 A
DDA - HyD comment received	0			0		01-Jun-20 A
DDA - RtC to Hyd under preparation	0			121	02-Jun-20 A	30-Sep-20 A
TD	0			84	23-Jun-20 A	30-Sep-20 A
DDA - TD comment received	0			0		23-Jun-20 A
DDA - RtC to TD	0			22	24-Jun-20 A	15-Jul-20 A
DDA - Under review by TD	0			77	16-Jul-20 A	30-Sep-20 A
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	210	09-Jan-20	22-Sep-20	246	02-Jan-20 A	30-Oct-20
AIP - D&BR / D&BL Tunnel & PCRA (with Temp. Support)	52	09-Jan-20	12-Mar-20	81	02-Jan-20 A	09-Apr-20 A
AIP - Review by SO	28	09-Jan-20	05-Feb-20	47	02-Jan-20 A	17-Feb-20 A



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

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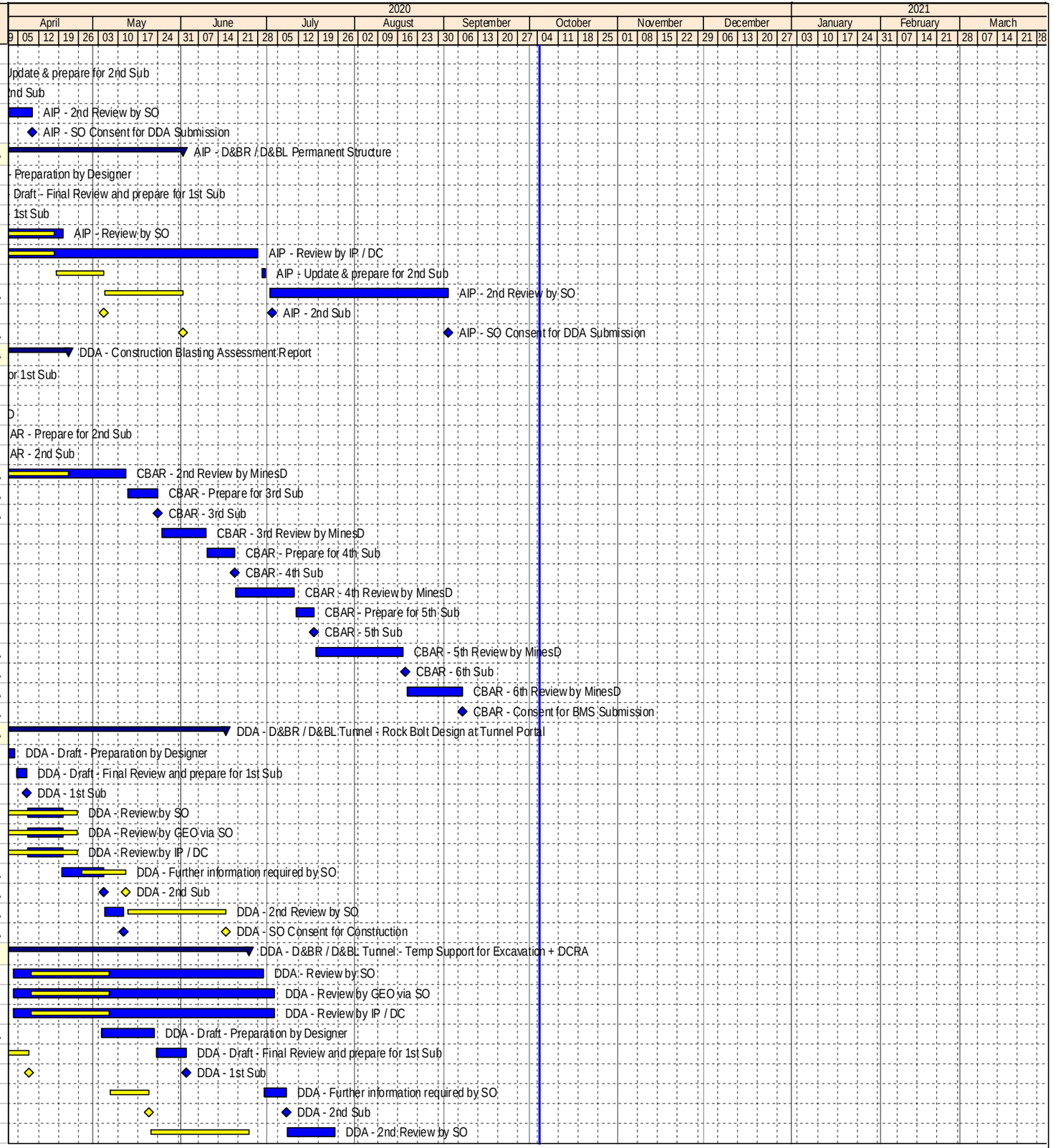
Date	Revision	Checked	Approved
05-Nov-19	00V0	WYu	
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
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	193	09-Jan-20 A	02-Sep-20 A
AIP - Draft - Preparation by Designer	41	09-Jan-20	28-Feb-20	49	09-Jan-20 A	09-Mar-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	14-Mar-20 A	20-Apr-20 A
AIP - Review by IP / DC	28	21-Mar-20	17-Apr-20	106	14-Mar-20 A	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
AIP - 2nd Review by SO	28	05-May-20	01-Jun-20	63	02-Jul-20 A	02-Sep-20 A
AIP - 2nd Sub	0		04-May-20	0		02-Jul-20 A
AIP - SO Consent for DDA Submission	0		01-Jun-20	0		02-Sep-20 A
DDA - Construction Blasting Assessment Report	81	11-Jan-20	22-Apr-20	195	11-Jan-20 A	07-Sep-20 A
CBAR - Draft - Final Review and prepare for 1st Sub	6	11-Jan-20	17-Jan-20	4	11-Jan-20 A	15-Jan-20 A
CBAR - 1st Sub	0		17-Jan-20	0		15-Jan-20 A
CBAR - Review by MinesD	28	18-Jan-20	14-Feb-20	19	16-Jan-20 A	03-Feb-20 A
CBAR - Prepare for 2nd Sub	28	15-Feb-20	18-Mar-20	42	04-Feb-20 A	23-Mar-20 A
CBAR - 2nd Sub	0		18-Mar-20	0		23-Mar-20 A
CBAR - 2nd Review by MinesD	35	19-Mar-20	22-Apr-20	50	24-Mar-20 A	12-May-20 A
CBAR - Prepare for 3rd Sub	0			10	13-May-20 A	23-May-20 A
CBAR - 3rd Sub	0			0		23-May-20 A
CBAR - 3rd Review by MinesD	0			14	25-May-20 A	09-Jun-20 A
CBAR - Prepare for 4th Sub	0			9	10-Jun-20 A	19-Jun-20 A
CBAR - 4th Sub	0			0		19-Jun-20 A
CBAR - 4th Review by MinesD	0			16	20-Jun-20 A	10-Jul-20 A
CBAR - Prepare for 5th Sub	0			6	11-Jul-20 A	17-Jul-20 A
CBAR - 5th Sub	0			0		17-Jul-20 A
CBAR - 5th Review by MinesD	0			26	18-Jul-20 A	17-Aug-20 A
CBAR - 6th Sub	0			0		18-Aug-20 A
CBAR - 6th Review by MinesD	0			17	19-Aug-20 A	07-Sep-20 A
CBAR - Consent for BMS Submission	0			0		07-Sep-20 A
DDA - D&BR / D&BL Tunnel - Rock Bolt Design at Tunnel P	110	03-Feb-20	16-Jun-20	97	09-Jan-20 A	11-May-20 A
DDA - Draft - Preparation by Designer	36	03-Feb-20	14-Mar-20	71	09-Jan-20 A	03-Apr-20 A
DDA - Draft - Final Review and prepare for 1st Sub	12	16-Mar-20	28-Mar-20	2	04-Apr-20 A	07-Apr-20 A
DDA - 1st Sub	0		28-Mar-20	0		07-Apr-20 A
DDA - Review by SO	28	29-Mar-20	25-Apr-20	13	08-Apr-20 A	20-Apr-20 A
DDA - Review by GEO via SO	28	29-Mar-20	25-Apr-20	13	08-Apr-20 A	20-Apr-20 A
DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20	13	08-Apr-20 A	20-Apr-20 A
DDA - Further information required by SO	12	27-Apr-20	12-May-20	11	20-Apr-20 A	04-May-20 A
DDA - 2nd Sub	0		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	170	03-Apr-20 A	30-Oct-20
DDA - Review by SO	28	09-Apr-20	06-May-20	88	03-Apr-20 A	29-Jun-20 A
DDA - Review by GEO via SO	28	09-Apr-20	06-May-20	92	03-Apr-20 A	03-Jul-20 A
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	04-May-20 A	22-May-20 A
DDA - Draft - Final Review and prepare for 1st Sub	6	01-Apr-20	08-Apr-20	9	23-May-20 A	02-Jun-20 A
DDA - 1st Sub	0		08-Apr-20	0		02-Jun-20 A
DDA - Further information required by SO	12	07-May-20	20-May-20	6	30-Jun-20 A	07-Jul-20 A
DDA - 2nd Sub	0		20-May-20	0		07-Jul-20 A
DDA - 2nd Review by SO	35	21-May-20	24-Jun-20	17	08-Jul-20 A	24-Jul-20 A



Milestone · Summary · Planned Bar · Critical Activity · 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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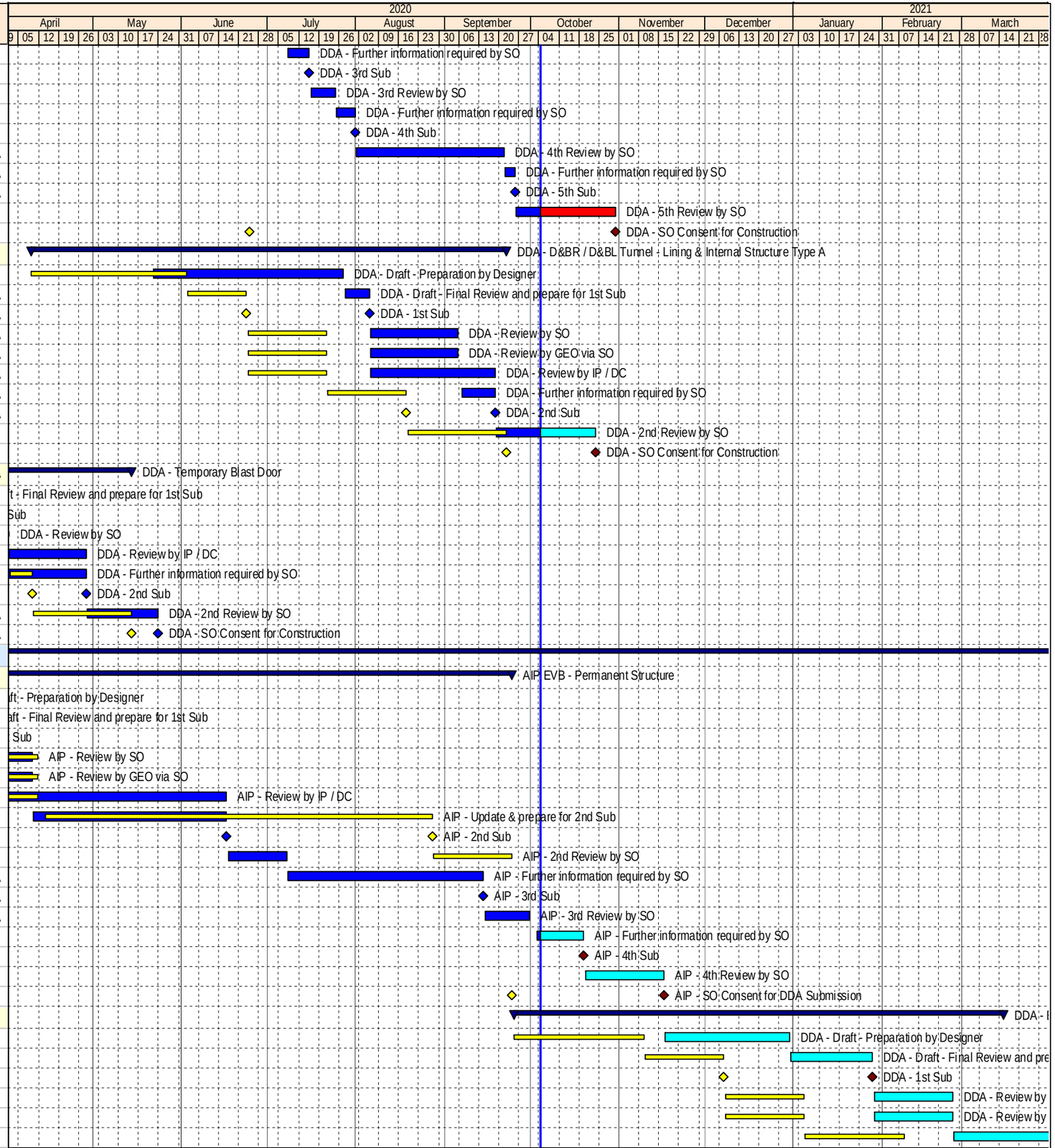
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Further information required by SO	0			7	08-Jul-20 A	15-Jul-20 A
DDA - 3rd Sub	0			0		15-Jul-20 A
DDA - 3rd Review by SO	0			9	16-Jul-20 A	24-Jul-20 A
DDA - Further information required by SO	0			6	25-Jul-20 A	31-Jul-20 A
DDA - 4th Sub	0			0		31-Jul-20 A
DDA - 4th Review by SO	0			52	01-Aug-20 A	21-Sep-20 A
DDA - Further information required by SO	0			4	22-Sep-20 A	25-Sep-20 A
DDA - 5th Sub	0			0		25-Sep-20 A
DDA - 5th Review by SO	0			35	26-Sep-20 A	30-Oct-20
DDA - SO Consent for Construction	0		24-Jun-20	0		30-Oct-20
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure Ty	136	09-Apr-20	22-Sep-20	129	22-May-20 A	23-Oct-20
DDA - Draft - Preparation by Designer	42	09-Apr-20	02-Jun-20	55	22-May-20 A	27-Jul-20 A
DDA - Draft - Final Review and prepare for 1st Sub	18	03-Jun-20	23-Jun-20	8	28-Jul-20 A	05-Aug-20 A
DDA - 1st Sub	0		23-Jun-20	0		05-Aug-20 A
DDA - Review by SO	28	24-Jun-20	21-Jul-20	31	06-Aug-20 A	05-Sep-20 A
DDA - Review by GEO via SO	28	24-Jun-20	21-Jul-20	31	06-Aug-20 A	05-Sep-20 A
DDA - Review by IP / DC	28	24-Jun-20	21-Jul-20	44	06-Aug-20 A	18-Sep-20 A
DDA - Further information required by SO	24	22-Jul-20	18-Aug-20	11	07-Sep-20 A	18-Sep-20 A
DDA - 2nd Sub	0		18-Aug-20	0		18-Sep-20 A
DDA - 2nd Review by SO	35	19-Aug-20	22-Sep-20	35	19-Sep-20 A	23-Oct-20
DDA - SO Consent for Construction	0		22-Sep-20	0		23-Oct-20
DDA - Temporary Blast Door	73	13-Feb-20	14-May-20	59	10-Mar-20 A	23-May-20 A
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
DDA - 1st Sub	0		04-Mar-20	0		10-Mar-20 A
DDA - Review by SO	28	05-Mar-20	01-Apr-20	17	11-Mar-20 A	27-Mar-20 A
DDA - Review by IP / DC	28	05-Mar-20	01-Apr-20	49	11-Mar-20 A	28-Apr-20 A
DDA - Further information required by SO	6	02-Apr-20	09-Apr-20	23	28-Mar-20 A	28-Apr-20 A
DDA - 2nd Sub	0		09-Apr-20	0		28-Apr-20 A
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	25	29-Apr-20 A	23-May-20 A
DDA - SO Consent for Construction	0		14-May-20	0		23-May-20 A
EAST VENTILATION BUILDING [EVB]	368	09-Jan-20	09-Apr-21	410	09-Jan-20 A	31-May-21
AIP EVB - Permanent Structure	212	09-Jan-20	24-Sep-20	254	09-Jan-20 A	16-Nov-20
AIP - Draft - Preparation by Designer	42	09-Jan-20	29-Feb-20	53	09-Jan-20 A	13-Mar-20 A
AIP - Draft - Final Review and prepare for 1st Sub	12	02-Mar-20	14-Mar-20	1	13-Mar-20 A	13-Mar-20 A
AIP - 1st Sub	0		14-Mar-20	0		13-Mar-20 A
AIP - Review by SO	28	15-Mar-20	11-Apr-20	27	14-Mar-20 A	09-Apr-20 A
AIP - Review by GEO via SO	28	15-Mar-20	11-Apr-20	27	14-Mar-20 A	09-Apr-20 A
AIP - Review by IP / DC	28	15-Mar-20	11-Apr-20	95	14-Mar-20 A	16-Jun-20 A
AIP - Update & prepare for 2nd Sub	113	14-Apr-20	27-Aug-20	53	10-Apr-20 A	16-Jun-20 A
AIP - 2nd Sub	0		27-Aug-20	0		16-Jun-20 A
AIP - 2nd Review by SO	28	28-Aug-20	24-Sep-20	21	17-Jun-20 A	07-Jul-20 A
AIP - Further information required by SO	0			59	08-Jul-20 A	14-Sep-20 A
AIP - 3rd Sub	0			0		14-Sep-20 A
AIP - 3rd Review by SO	0			16	15-Sep-20 A	30-Sep-20 A
AIP - Further information required by SO	0			14	03-Oct-20 A	19-Oct-20
AIP - 4th Sub	0			0		19-Oct-20
AIP - 4th Review by SO	0			28	20-Oct-20	16-Nov-20
AIP - SO Consent for DDA Submission	0		24-Sep-20	0		16-Nov-20
DDA - EVB - General Building Plan	138	25-Sep-20	15-Mar-21	136	17-Nov-20	06-May-21
DDA - Draft - Preparation by Designer	36	25-Sep-20	09-Nov-20	36	17-Nov-20	30-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Nov-20	07-Dec-20	24	31-Dec-20	28-Jan-21
DDA - 1st Sub	0		07-Dec-20	0		28-Jan-21
DDA - Review by SO	28	08-Dec-20	04-Jan-21	28	29-Jan-21	25-Feb-21
DDA - Review by IP / DC	28	08-Dec-20	04-Jan-21	28	29-Jan-21	25-Feb-21
DDA - Further information required by SO	30	05-Jan-21	08-Feb-21	30	26-Feb-21	01-Apr-21



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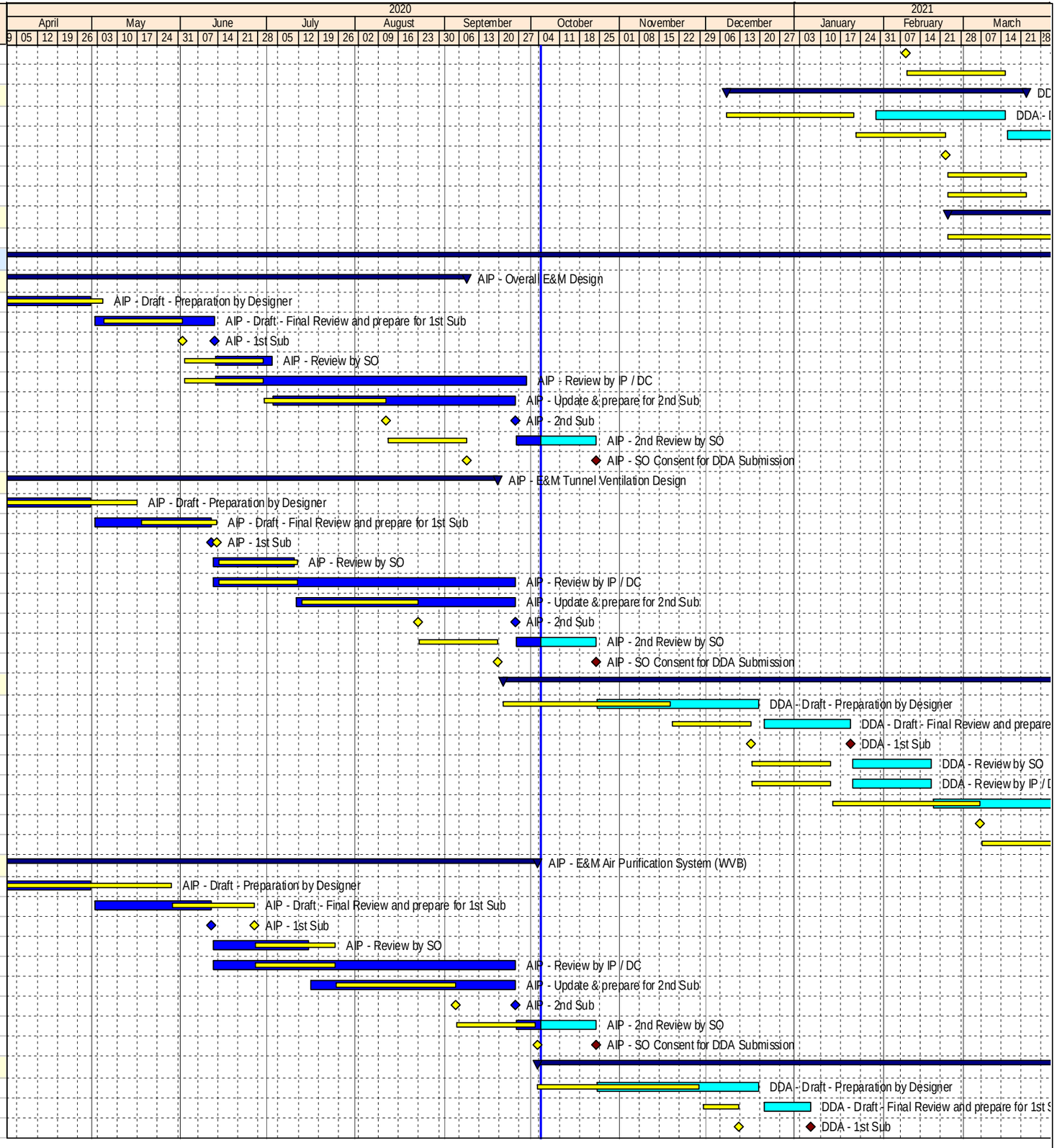
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - 2nd Sub	0		08-Feb-21	0		01-Apr-21
DDA - 2nd Review by SO	35	09-Feb-21	15-Mar-21	35	02-Apr-21	06-May-21
DDA - EVB - Permanent Structure (including Foundation)	84	08-Dec-20	22-Mar-21	83	29-Jan-21	14-May-21
DDA - Draft - Preparation by Designer	36	08-Dec-20	21-Jan-21	36	29-Jan-21	15-Mar-21
DDA - Draft - Final Review and prepare for 1st Sub	24	22-Jan-21	22-Feb-21	24	16-Mar-21	16-Apr-21
DDA - 1st Sub	0		22-Feb-21	0		16-Apr-21
DDA - Review by SO	28	23-Feb-21	22-Mar-21	28	17-Apr-21	14-May-21
DDA - Review by IP / DC	28	23-Feb-21	22-Mar-21	28	17-Apr-21	14-May-21
DDA - EVB - ABWF	36	23-Feb-21	09-Apr-21	36	17-Apr-21	31-May-21
DDA - Draft - Preparation by Designer	36	23-Feb-21	09-Apr-21	36	17-Apr-21	31-May-21
TUNNEL E&M INSTALLATION & COMMISSIONING	392	02-Jan-20	30-Apr-21	413	02-Jan-20 A	27-May-21
AIP - Overall E&M Design	204	02-Jan-20	08-Sep-20	241	02-Jan-20 A	23-Oct-20
AIP - Draft - Preparation by Designer	97	02-Jan-20	04-May-20	95	02-Jan-20 A	30-Apr-20 A
AIP - Draft - Final Review and prepare for 1st Sub	24	05-May-20	01-Jun-20	36	02-May-20 A	12-Jun-20 A
AIP - 1st Sub	0		01-Jun-20	0		12-Jun-20 A
AIP - Review by SO	28	02-Jun-20	29-Jun-20	20	13-Jun-20 A	02-Jul-20 A
AIP - Review by IP / DC	28	02-Jun-20	29-Jun-20	109	13-Jun-20 A	29-Sep-20 A
AIP - Update & prepare for 2nd Sub	36	30-Jun-20	11-Aug-20	73	03-Jul-20 A	25-Sep-20 A
AIP - 2nd Sub	0		11-Aug-20	0		25-Sep-20 A
AIP - 2nd Review by SO	28	12-Aug-20	08-Sep-20	28	26-Sep-20 A	23-Oct-20
AIP - SO Consent for DDA Submission	0		08-Sep-20	0		23-Oct-20
AIP - E&M Tunnel Ventilation Design	214	02-Jan-20	19-Sep-20	241	02-Jan-20 A	23-Oct-20
AIP - Draft - Preparation by Designer	108	02-Jan-20	16-May-20	95	02-Jan-20 A	30-Apr-20 A
AIP - Draft - Final Review and prepare for 1st Sub	24	18-May-20	13-Jun-20	35	02-May-20 A	11-Jun-20 A
AIP - 1st Sub	0		13-Jun-20	0		11-Jun-20 A
AIP - Review by SO	28	14-Jun-20	11-Jul-20	29	12-Jun-20 A	10-Jul-20 A
AIP - Review by IP / DC	28	14-Jun-20	11-Jul-20	106	12-Jun-20 A	25-Sep-20 A
AIP - Update & prepare for 2nd Sub	36	13-Jul-20	22-Aug-20	66	11-Jul-20 A	25-Sep-20 A
AIP - 2nd Sub	0		22-Aug-20	0		25-Sep-20 A
AIP - 2nd Review by SO	28	23-Aug-20	19-Sep-20	28	26-Sep-20 A	23-Oct-20
AIP - SO Consent for DDA Submission	0		19-Sep-20	0		23-Oct-20
DDA - E&M Tunnel Ventilation Design	161	21-Sep-20	10-Apr-21	164	24-Oct-20	17-May-21
DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20	48	24-Oct-20	19-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20	24	21-Dec-20	20-Jan-21
DDA - 1st Sub	0		16-Dec-20	0		20-Jan-21
DDA - Review by SO	28	17-Dec-20	13-Jan-21	28	21-Jan-21	17-Feb-21
DDA - Review by IP / DC	28	17-Dec-20	13-Jan-21	28	21-Jan-21	17-Feb-21
DDA - Further information required by SO	42	14-Jan-21	06-Mar-21	42	18-Feb-21	12-Apr-21
DDA - 2nd Sub	0		06-Mar-21	0		12-Apr-21
DDA - 2nd Review by SO	35	07-Mar-21	10-Apr-21	35	13-Apr-21	17-May-21
AIP - E&M Air Purification System (WVB)	223	02-Jan-20	03-Oct-20	241	02-Jan-20 A	23-Oct-20
AIP - Draft - Preparation by Designer	118	02-Jan-20	28-May-20	95	02-Jan-20 A	30-Apr-20 A
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 - 1st Sub	0		26-Jun-20	0		11-Jun-20 A
AIP - Review by SO	28	27-Jun-20	24-Jul-20	34	12-Jun-20 A	15-Jul-20 A
AIP - Review by IP / DC	28	27-Jun-20	24-Jul-20	106	12-Jun-20 A	25-Sep-20 A
AIP - Update & prepare for 2nd Sub	36	25-Jul-20	04-Sep-20	62	16-Jul-20 A	25-Sep-20 A
AIP - 2nd Sub	0		04-Sep-20	0		25-Sep-20 A
AIP - 2nd Review by SO	28	05-Sep-20	02-Oct-20	28	26-Sep-20 A	23-Oct-20
AIP - SO Consent for DDA Submission	0		03-Oct-20	0		23-Oct-20
DDA - E&M Air Purification System (WVB)	149	03-Oct-20	07-Apr-21	151	24-Oct-20	01-May-21
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	48	24-Oct-20	19-Dec-20
DDA - Draft - Final Review and prepare for 1st Sub	12	30-Nov-20	12-Dec-20	12	21-Dec-20	06-Jan-21
DDA - 1st Sub	0		12-Dec-20	0		06-Jan-21



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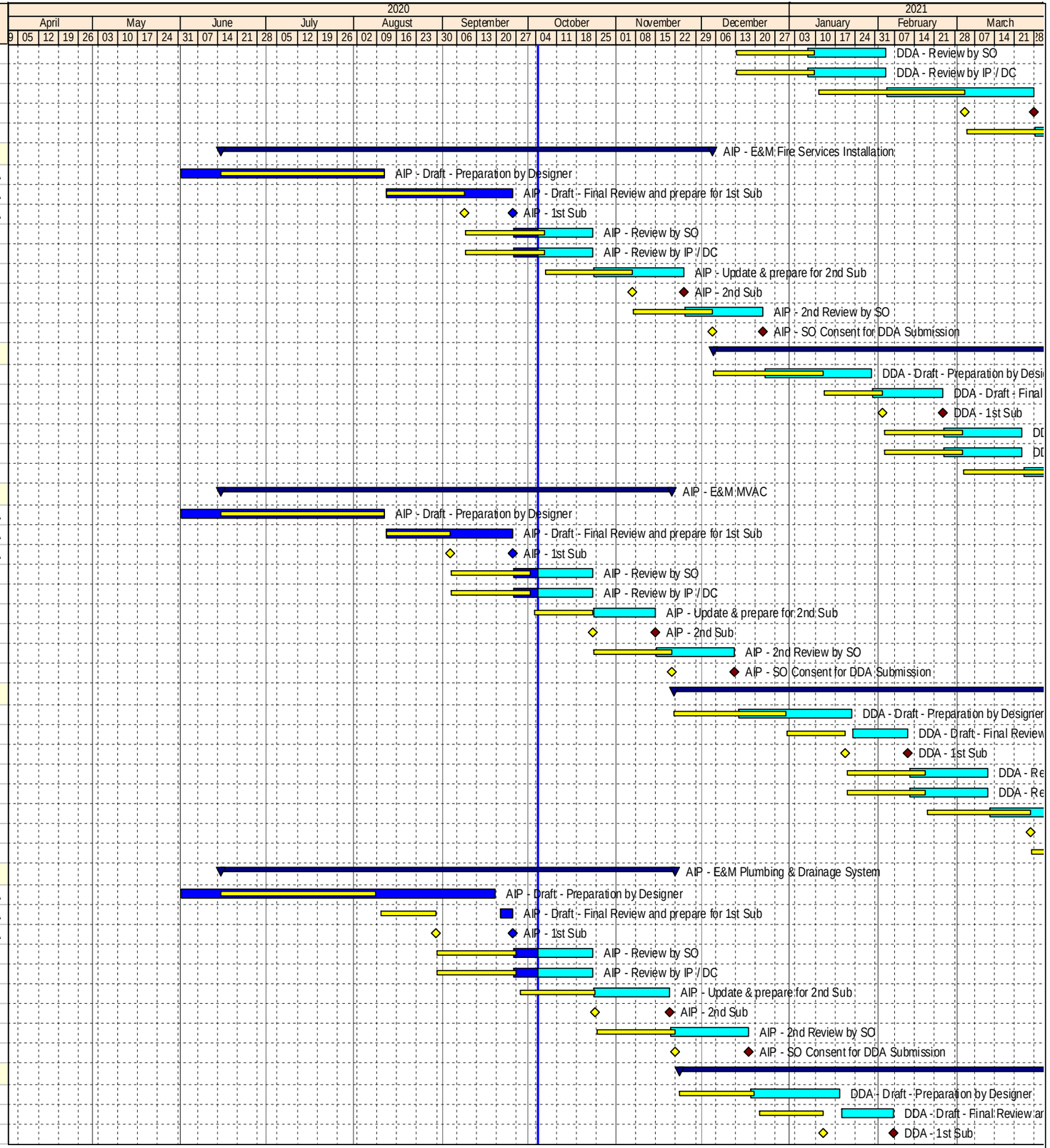
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

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
DDA - Review by SO	28	13-Dec-20	09-Jan-21	28	07-Jan-21	03-Feb-21
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	28	07-Jan-21	03-Feb-21
DDA - Further information required by SO	42	11-Jan-21	03-Mar-21	42	04-Feb-21	27-Mar-21
DDA - 2nd Sub	0		03-Mar-21	0		27-Mar-21
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	35	28-Mar-21	01-May-21
AIP - E&M Fire Services Installation	144	15-Jun-20	04-Dec-20	171	01-Jun-20 A	22-Dec-20
AIP - Draft - Preparation by Designer	48	15-Jun-20	11-Aug-20	60	01-Jun-20 A	11-Aug-20 A
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Aug-20	08-Sep-20	39	12-Aug-20 A	25-Sep-20 A
AIP - 1st Sub	0		08-Sep-20	0		25-Sep-20 A
AIP - Review by SO	28	09-Sep-20	06-Oct-20	28	26-Sep-20 A	23-Oct-20
AIP - Review by IP / DC	28	09-Sep-20	06-Oct-20	28	26-Sep-20 A	23-Oct-20
AIP - Update & prepare for 2nd Sub	26	07-Oct-20	06-Nov-20	26	24-Oct-20	24-Nov-20
AIP - 2nd Sub	0		06-Nov-20	0		24-Nov-20
AIP - 2nd Review by SO	28	07-Nov-20	04-Dec-20	28	25-Nov-20	22-Dec-20
AIP - SO Consent for DDA Submission	0		04-Dec-20	0		22-Dec-20
DDA - E&M Fire Services Installation	101	05-Dec-20	13-Apr-21	104	23-Dec-20	05-May-21
DDA - Draft - Preparation by Designer	30	05-Dec-20	12-Jan-21	30	23-Dec-20	29-Jan-21
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Jan-21	02-Feb-21	18	30-Jan-21	23-Feb-21
DDA - 1st Sub	0		02-Feb-21	0		23-Feb-21
DDA - Review by SO	28	03-Feb-21	02-Mar-21	28	24-Feb-21	23-Mar-21
DDA - Review by IP / DC	28	03-Feb-21	02-Mar-21	28	24-Feb-21	23-Mar-21
DDA - Further information required by SO	32	03-Mar-21	13-Apr-21	32	24-Mar-21	05-May-21
AIP - E&M MVAC	132	15-Jun-20	20-Nov-20	163	01-Jun-20 A	12-Dec-20
AIP - Draft - Preparation by Designer	48	15-Jun-20	11-Aug-20	60	01-Jun-20 A	11-Aug-20 A
AIP - Draft - Final Review and prepare for 1st Sub	20	12-Aug-20	03-Sep-20	39	12-Aug-20 A	25-Sep-20 A
AIP - 1st Sub	0		03-Sep-20	0		25-Sep-20 A
AIP - Review by SO	28	04-Sep-20	01-Oct-20	28	26-Sep-20 A	23-Oct-20
AIP - Review by IP / DC	28	04-Sep-20	01-Oct-20	28	26-Sep-20 A	23-Oct-20
AIP - Update & prepare for 2nd Sub	18	03-Oct-20	23-Oct-20	18	24-Oct-20	14-Nov-20
AIP - 2nd Sub	0		23-Oct-20	0		14-Nov-20
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	28	15-Nov-20	12-Dec-20
AIP - SO Consent for DDA Submission	0		20-Nov-20	0		12-Dec-20
DDA - E&M MVAC	128	21-Nov-20	30-Apr-21	130	14-Dec-20	27-May-21
DDA - Draft - Preparation by Designer	32	21-Nov-20	30-Dec-20	32	14-Dec-20	22-Jan-21
DDA - Draft - Final Review and prepare for 1st Sub	17	31-Dec-20	20-Jan-21	17	23-Jan-21	11-Feb-21
DDA - 1st Sub	0		20-Jan-21	0		11-Feb-21
DDA - Review by SO	28	21-Jan-21	17-Feb-21	28	12-Feb-21	11-Mar-21
DDA - Review by IP / DC	28	21-Jan-21	17-Feb-21	28	12-Feb-21	11-Mar-21
DDA - Further information required by SO	32	18-Feb-21	26-Mar-21	32	12-Mar-21	22-Apr-21
DDA - 2nd Sub	0		26-Mar-21	0		22-Apr-21
DDA - 2nd Review by SO	35	27-Mar-21	30-Apr-21	35	23-Apr-21	27-May-21
AIP - E&M Plumbing & Drainage System	133	15-Jun-20	21-Nov-20	167	01-Jun-20 A	17-Dec-20
AIP - Draft - Preparation by Designer	46	15-Jun-20	08-Aug-20	94	01-Jun-20 A	19-Sep-20 A
AIP - Draft - Final Review and prepare for 1st Sub	18	10-Aug-20	29-Aug-20	5	21-Sep-20 A	25-Sep-20 A
AIP - 1st Sub	0		29-Aug-20	0		25-Sep-20 A
AIP - Review by SO	28	30-Aug-20	26-Sep-20	28	26-Sep-20 A	23-Oct-20
AIP - Review by IP / DC	28	30-Aug-20	26-Sep-20	28	26-Sep-20 A	23-Oct-20
AIP - Update & prepare for 2nd Sub	22	28-Sep-20	24-Oct-20	22	24-Oct-20	19-Nov-20
AIP - 2nd Sub	0		24-Oct-20	0		19-Nov-20
AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	28	20-Nov-20	17-Dec-20
AIP - SO Consent for DDA Submission	0		21-Nov-20	0		17-Dec-20
DDA - E&M Plumbing & Drainage System	123	23-Nov-20	26-Apr-21	122	18-Dec-20	22-May-21
DDA - Draft - Preparation by Designer	24	23-Nov-20	19-Dec-20	24	18-Dec-20	18-Jan-21
DDA - Draft - Final Review and prepare for 1st Sub	17	21-Dec-20	12-Jan-21	17	19-Jan-21	06-Feb-21
DDA - 1st Sub	0		12-Jan-21	0		06-Feb-21



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme

BOUYGUES TRAVAUX PUBLICS

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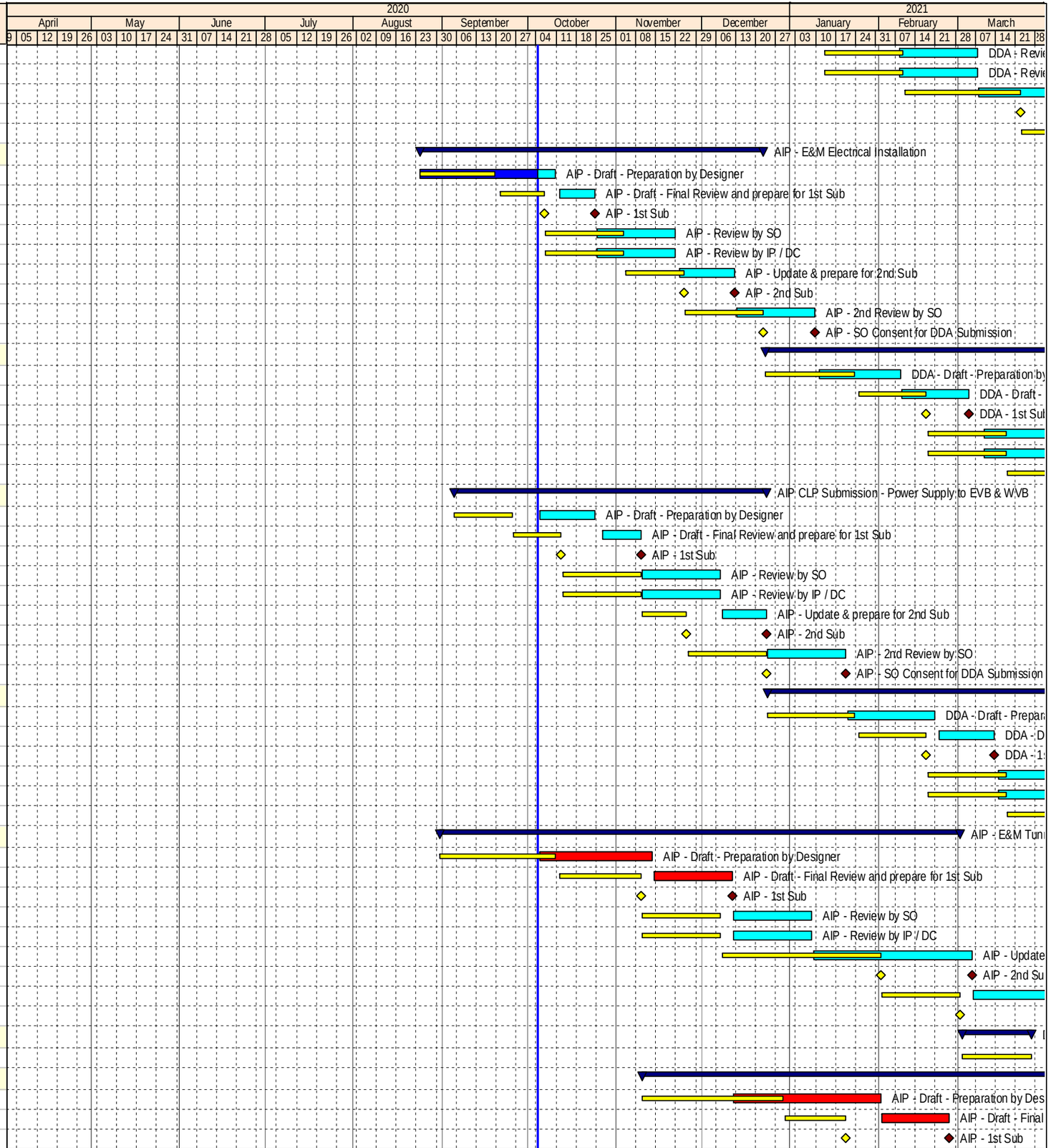
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
DDA - Review by SO	28	13-Jan-21	09-Feb-21	28	08-Feb-21	07-Mar-21
DDA - Review by IP / DC	28	13-Jan-21	09-Feb-21	28	08-Feb-21	07-Mar-21
DDA - Further information required by SO	32	10-Feb-21	22-Mar-21	32	08-Mar-21	17-Apr-21
DDA - 2nd Sub	0		22-Mar-21	0		17-Apr-21
DDA - 2nd Review by SO	35	23-Mar-21	26-Apr-21	35	18-Apr-21	22-May-21
AIP - E&M Electrical Installation	101	24-Aug-20	22-Dec-20	114	24-Aug-20 A	09-Jan-21
AIP - Draft - Preparation by Designer	24	24-Aug-20	19-Sep-20	40	24-Aug-20 A	10-Oct-20
AIP - Draft - Final Review and prepare for 1st Sub	12	21-Sep-20	06-Oct-20	12	12-Oct-20	24-Oct-20
AIP - 1st Sub	0		06-Oct-20	0		24-Oct-20
AIP - Review by SO	28	07-Oct-20	03-Nov-20	28	25-Oct-20	21-Nov-20
AIP - Review by IP / DC	28	07-Oct-20	03-Nov-20	28	25-Oct-20	21-Nov-20
AIP - Update & prepare for 2nd Sub	18	04-Nov-20	24-Nov-20	18	23-Nov-20	12-Dec-20
AIP - 2nd Sub	0		24-Nov-20	0		12-Dec-20
AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	13-Dec-20	09-Jan-21
AIP - SO Consent for DDA Submission	0		22-Dec-20	0		09-Jan-21
DDA - E&M Electrical Installation	100	23-Dec-20	29-Apr-21	100	11-Jan-21	15-May-21
DDA - Draft - Preparation by Designer	25	23-Dec-20	23-Jan-21	25	11-Jan-21	08-Feb-21
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	09-Feb-21	04-Mar-21
DDA - 1st Sub	0		17-Feb-21	0		04-Mar-21
DDA - Review by SO	28	18-Feb-21	17-Mar-21	28	10-Mar-21	06-Apr-21
DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	10-Mar-21	06-Apr-21
DDA - Further information required by SO	33	18-Mar-21	29-Apr-21	33	07-Apr-21	15-May-21
AIP CLP Submission - Power Supply to EVB & WVB	91	05-Sep-20	23-Dec-20	89	05-Oct-20	20-Jan-21
AIP - Draft - Preparation by Designer	18	05-Sep-20	25-Sep-20	18	05-Oct-20	24-Oct-20
AIP - Draft - Final Review and prepare for 1st Sub	12	26-Sep-20	12-Oct-20	12	27-Oct-20	09-Nov-20
AIP - 1st Sub	0		12-Oct-20	0		09-Nov-20
AIP - Review by SO	28	13-Oct-20	09-Nov-20	28	10-Nov-20	07-Dec-20
AIP - Review by IP / DC	28	13-Oct-20	09-Nov-20	28	10-Nov-20	07-Dec-20
AIP - Update & prepare for 2nd Sub	14	10-Nov-20	25-Nov-20	14	08-Dec-20	23-Dec-20
AIP - 2nd Sub	0		25-Nov-20	0		23-Dec-20
AIP - 2nd Review by SO	28	26-Nov-20	23-Dec-20	28	24-Dec-20	20-Jan-21
AIP - SO Consent for DDA Submission	0		23-Dec-20	0		20-Jan-21
DDA CLP Submission - Power Supply to EVB & WVB	100	24-Dec-20	30-Apr-21	96	21-Jan-21	22-May-21
DDA - Draft - Preparation by Designer	24	24-Dec-20	23-Jan-21	24	21-Jan-21	20-Feb-21
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	22-Feb-21	13-Mar-21
DDA - 1st Sub	0		17-Feb-21	0		13-Mar-21
DDA - Review by SO	28	18-Feb-21	17-Mar-21	28	15-Mar-21	11-Apr-21
DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	15-Mar-21	11-Apr-21
DDA - Further information required by SO	34	18-Mar-21	30-Apr-21	34	12-Apr-21	22-May-21
AIP - E&M Tunnel Lighting Design	148	31-Aug-20	01-Mar-21	147	05-Oct-20	07-Apr-21
AIP - Draft - Preparation by Designer	34	31-Aug-20	10-Oct-20	34	05-Oct-20	13-Nov-20
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Oct-20	09-Nov-20	24	14-Nov-20	11-Dec-20
AIP - 1st Sub	0		09-Nov-20	0		11-Dec-20
AIP - Review by SO	28	10-Nov-20	07-Dec-20	28	12-Dec-20	08-Jan-21
AIP - Review by IP / DC	28	10-Nov-20	07-Dec-20	28	12-Dec-20	08-Jan-21
AIP - Update & prepare for 2nd Sub	45	08-Dec-20	01-Feb-21	45	09-Jan-21	05-Mar-21
AIP - 2nd Sub	0		01-Feb-21	0		05-Mar-21
AIP - 2nd Review by SO	28	02-Feb-21	01-Mar-21	28	06-Mar-21	02-Apr-21
AIP - SO Consent for DDA Submission	0		01-Mar-21	0		07-Apr-21
DDA - E&M Tunnel Lighting Design	22	02-Mar-21	26-Mar-21	22	07-Apr-21	03-May-21
DDA - Draft - Preparation by Designer	22	02-Mar-21	26-Mar-21	22	07-Apr-21	03-May-21
AIP - E&M CMCS	118	10-Nov-20	07-Apr-21	121	12-Dec-20	14-May-21
AIP - Draft - Preparation by Designer	41	10-Nov-20	29-Dec-20	41	12-Dec-20	01-Feb-21
AIP - Draft - Final Review and prepare for 1st Sub	18	30-Dec-20	20-Jan-21	18	02-Feb-21	25-Feb-21
AIP - 1st Sub	0		20-Jan-21	0		25-Feb-21



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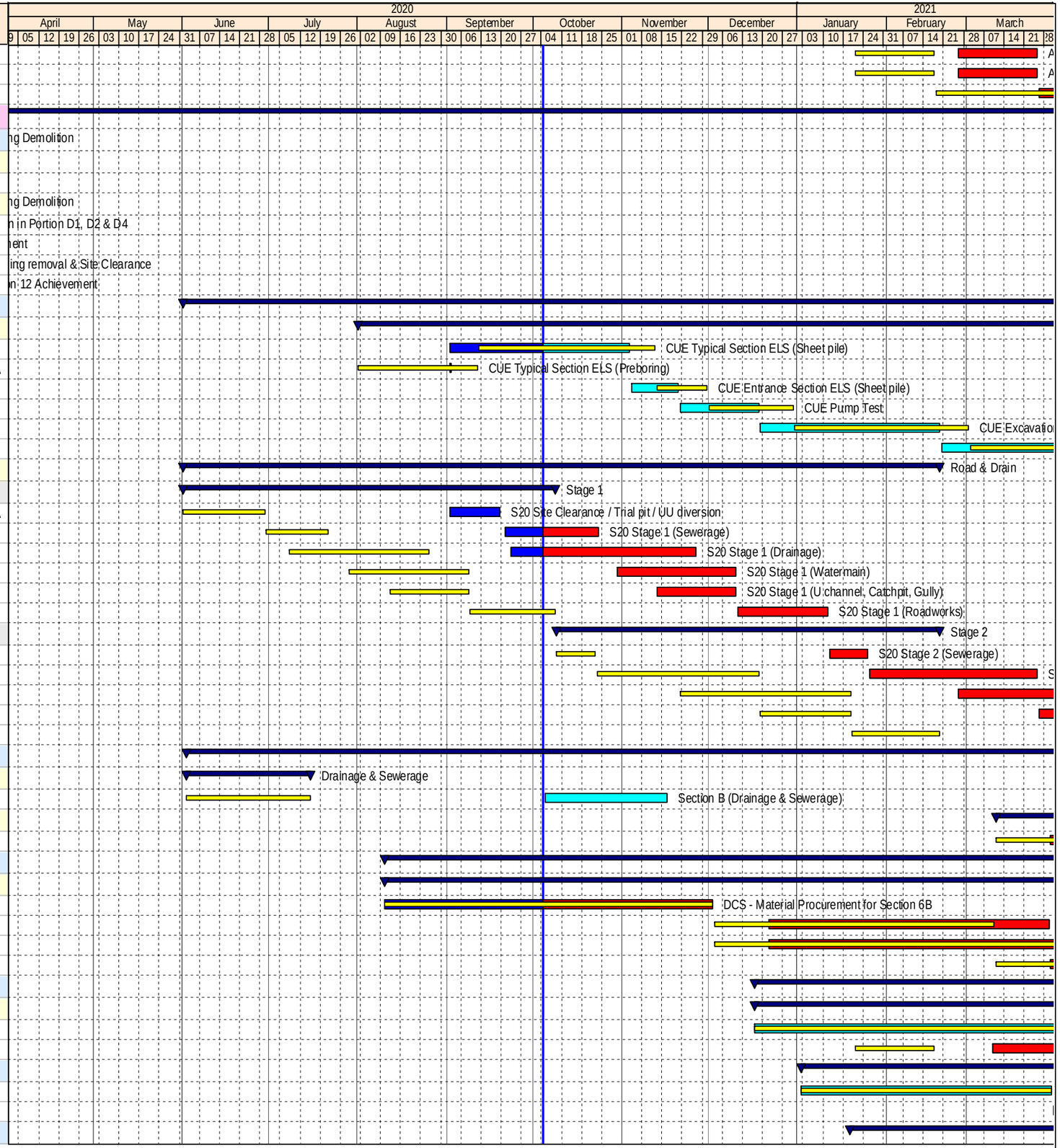
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
AIP - Review by SO	28	21-Jan-21	17-Feb-21	28	26-Feb-21	25-Mar-21
AIP - Review by IP / DC	28	21-Jan-21	17-Feb-21	28	26-Feb-21	25-Mar-21
AIP - Update & prepare for 2nd Sub	38	18-Feb-21	07-Apr-21	38	26-Mar-21	14-May-21
SOUTH APRON EXTERNAL WORKS	446	07-Jan-20	12-Jul-21	443	10-Jan-20 A	12-Jul-21
Building Demolition	59	07-Jan-20	18-Mar-20	35	10-Jan-20 A	22-Feb-20 A
Preparation	18	07-Jan-20	30-Jan-20	7	10-Jan-20 A	17-Jan-20 A
Hoarding installation	18	07-Jan-20	30-Jan-20	7	10-Jan-20 A	17-Jan-20 A
Building Demolition	41	31-Jan-20	18-Mar-20	28	18-Jan-20 A	22-Feb-20 A
Building demolition in Portion D1, D2 & D4	24	31-Jan-20	27-Feb-20	22	18-Jan-20 A	15-Feb-20 A
Building Demolition - Commencement	0	31-Jan-20		0	31-Jan-20 A	
Hoarding removal & Site Clearance	17	28-Feb-20	18-Mar-20	6	17-Feb-20 A	22-Feb-20 A
Section 12 Achievement	0		18-Mar-20	0		22-Feb-20 A
Road S20	296	01-Jun-20	31-May-21	215	02-Sep-20 A	27-May-21
CUE	245	01-Aug-20	31-May-21	210	02-Sep-20 A	21-May-21
CUE Typical Section ELS (Sheet pile)	50	12-Sep-20	12-Nov-20	51	02-Sep-20 A	03-Nov-20
CUE Typical Section ELS (Preboring)	36	01-Aug-20	11-Sep-20	1	02-Sep-20 A	02-Sep-20 A
CUE Entrance Section ELS (Sheet pile)	15	13-Nov-20	30-Nov-20	15	04-Nov-20	20-Nov-20
CUE Pump Test	24	01-Dec-20	30-Dec-20	24	21-Nov-20	18-Dec-20
CUE Excavation	48	31-Dec-20	01-Mar-21	48	19-Dec-20	19-Feb-21
CUE Typical Section & Entrance Structure	72	02-Mar-21	31-May-21	72	20-Feb-21	21-May-21
Road & Drain	216	01-Jun-20	19-Feb-21	215	02-Sep-20 A	27-May-21
Stage 1	108	01-Jun-20	08-Oct-20	107	02-Sep-20 A	11-Jan-21
S20 Site Clearance / Trial pit / UU diversion	24	01-Jun-20	29-Jun-20	16	02-Sep-20 A	19-Sep-20 A
S20 Stage 1 (Sewerage)	18	30-Jun-20	21-Jul-20	27	21-Sep-20 A	23-Oct-20
S20 Stage 1 (Drainage)	42	08-Jul-20	25-Aug-20	53	23-Sep-20 A	26-Nov-20
S20 Stage 1 (Watermain)	36	29-Jul-20	08-Sep-20	36	30-Oct-20	10-Dec-20
S20 Stage 1 (U channel, Catchpit, Gully)	24	12-Aug-20	08-Sep-20	24	13-Nov-20	10-Dec-20
S20 Stage 1 (Roadworks)	24	09-Sep-20	08-Oct-20	24	11-Dec-20	11-Jan-21
Stage 2	108	09-Oct-20	19-Feb-21	108	12-Jan-21	27-May-21
S20 Stage 2 (Sewerage)	12	09-Oct-20	22-Oct-20	12	12-Jan-21	25-Jan-21
S20 Stage 2 (Drainage)	48	23-Oct-20	18-Dec-20	48	26-Jan-21	25-Mar-21
S20 Stage 2 (Watermain)	48	21-Nov-20	19-Jan-21	48	26-Feb-21	27-Apr-21
S20 Stage 2 (U channel, Catchpit, Gully)	24	19-Dec-20	19-Jan-21	24	26-Mar-21	27-Apr-21
S20 Stage 2 (Roadworks)	24	20-Jan-21	19-Feb-21	24	28-Apr-21	27-May-21
AMAWBC	267	02-Jun-20	26-Apr-21	180	05-Oct-20	15-May-21
Drainage & Sewerage	36	02-Jun-20	15-Jul-20	36	05-Oct-20	16-Nov-20
Section B (Drainage & Sewerage)	36	02-Jun-20	15-Jul-20	36	05-Oct-20	16-Nov-20
Outfall 1	36	11-Mar-21	26-Apr-21	36	30-Mar-21	15-May-21
Outfall 1 Excavation & Blinding	36	11-Mar-21	26-Apr-21	36	30-Mar-21	15-May-21
[STE] District Cooling System for AMAWBC Section 6B	246	10-Aug-20	09-Jun-21	262	10-Aug-20 A	29-Jun-21
DCS Section 6B	246	10-Aug-20	09-Jun-21	262	10-Aug-20 A	29-Jun-21
DCS - Material Procurement for Section 6B	96	10-Aug-20	02-Dec-20	96	10-Aug-20 A	02-Dec-20
DCS - Section D	78	03-Dec-20	10-Mar-21	78	22-Dec-20	29-Mar-21
DCS - Section C	144	03-Dec-20	02-Jun-21	144	22-Dec-20	22-Jun-21
DCS - Section A	72	11-Mar-21	09-Jun-21	72	30-Mar-21	29-Jun-21
[STE] District Cooling System - Remaining Section 7B	96	17-Dec-20	19-Apr-21	96	17-Dec-20	19-Apr-21
Road L10S	96	17-Dec-20	19-Apr-21	96	17-Dec-20	19-Apr-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	10-Mar-21	07-Apr-21
Foot Bridge FB-02	144	02-Jan-21	30-Jun-21	144	02-Jan-21	30-Jun-21
Temporary Ramp provision	72	02-Jan-21	30-Mar-21	72	02-Jan-21*	30-Mar-21
Existing Ramp KF-64 demolition	72	31-Mar-21	30-Jun-21	72	31-Mar-21	30-Jun-21
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	120	19-Jan-21	18-Jun-21	120	25-Jan-21	24-Jun-21



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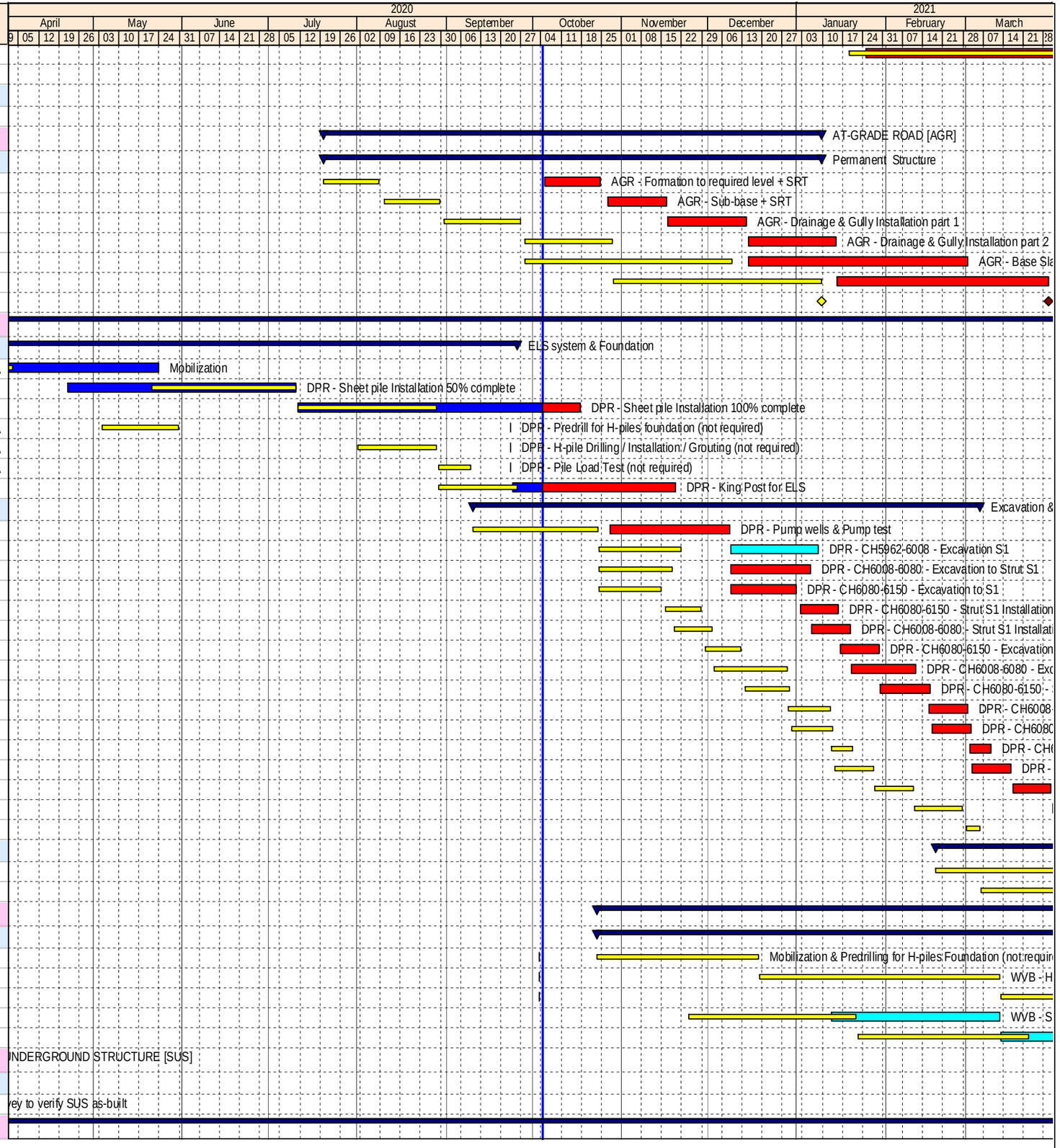
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
HBR / CYS / WCR TTA Phase 1	60	19-Jan-21	01-Apr-21	60	25-Jan-21	12-Apr-21
HBR / CYS / WCR TTA Phase 2	60	07-Apr-21	18-Jun-21	60	13-Apr-21	24-Jun-21
[STE] Slip Road S5	66	22-Apr-21	12-Jul-21	66	22-Apr-21	12-Jul-21
Slip Road S5 - DSD - Drainage & Sewerage (Phase 1)	66	22-Apr-21	12-Jul-21	66	22-Apr-21	12-Jul-21
AT-GRADE ROAD [AGR]	144	20-Jul-20	09-Jan-21	144	05-Oct-20	29-Mar-21
Permanent Structure	144	20-Jul-20	09-Jan-21	144	05-Oct-20	29-Mar-21
AGR - Formation to required level + SRT	18	20-Jul-20	08-Aug-20	18	05-Oct-20	24-Oct-20
AGR - Sub-base + SRT	18	10-Aug-20	29-Aug-20	18	27-Oct-20	16-Nov-20
AGR - Drainage & Gully Installation part 1	24	31-Aug-20	26-Sep-20	24	17-Nov-20	14-Dec-20
AGR - Drainage & Gully Installation part 2	24	28-Sep-20	28-Oct-20	24	15-Dec-20	14-Jan-21
AGR - Base Slab Structure part 1	60	28-Sep-20	09-Dec-20	60	15-Dec-20	01-Mar-21
AGR - Base Slab Structure part 2	60	29-Oct-20	09-Jan-21	60	15-Jan-21	29-Mar-21
Stage 2B Completion	0		09-Jan-21	0		29-Mar-21
DEPRESSED ROAD [DPR]	362	06-Mar-20	28-May-21	400	06-Mar-20 A	14-Jul-21
ELS system & Foundation	167	06-Mar-20	25-Sep-20	211	06-Mar-20 A	19-Nov-20
Mobilization	24	06-Mar-20	02-Apr-20	62	06-Mar-20 A	23-May-20 A
DPR - Sheet pile Installation 50% complete	42	21-May-20	10-Jul-20	65	22-Apr-20 A	10-Jul-20 A
DPR - Sheet pile Installation 100% complete	42	11-Jul-20	28-Aug-20	83	11-Jul-20 A	17-Oct-20
DPR - Predrill for H-piles foundation (not required)	24	04-May-20	30-May-20	0	23-Sep-20 A	23-Sep-20 A
DPR - H-pile Drilling / Installation / Grouting (not required)	24	01-Aug-20	28-Aug-20	0	23-Sep-20 A	23-Sep-20 A
DPR - Pile Load Test (not required)	10	29-Aug-20	09-Sep-20	0	23-Sep-20 A	23-Sep-20 A
DPR - King Post for ELS	24	29-Aug-20	25-Sep-20	46	24-Sep-20 A	19-Nov-20
Excavation & Strutting	143	10-Sep-20	05-Mar-21	143	28-Oct-20	23-Apr-21
DPR - Pump wells & Pump test	36	10-Sep-20	23-Oct-20	36	28-Oct-20	08-Dec-20
DPR - CH5962-6008 - Excavation S1	24	24-Oct-20	21-Nov-20	24	09-Dec-20	08-Jan-21
DPR - CH6008-6080 - Excavation to Strut S1	21	24-Oct-20	18-Nov-20	21	09-Dec-20	05-Jan-21
DPR - CH6080-6150 - Excavation to S1	18	24-Oct-20	14-Nov-20	18	09-Dec-20	31-Dec-20
DPR - CH6080-6150 - Strut S1 Installation	12	16-Nov-20	28-Nov-20	12	02-Jan-21	15-Jan-21
DPR - CH6008-6080 - Strut S1 Installation	12	19-Nov-20	02-Dec-20	12	06-Jan-21	19-Jan-21
DPR - CH6080-6150 - Excavation to S2	12	30-Nov-20	12-Dec-20	12	16-Jan-21	29-Jan-21
DPR - CH6008-6080 - Excavation to Strut S3	20	03-Dec-20	28-Dec-20	20	20-Jan-21	11-Feb-21
DPR - CH6080-6150 - Strut S2 Installation	12	14-Dec-20	29-Dec-20	12	30-Jan-21	16-Feb-21
DPR - CH6008-6080 - Strut S3 Installation	12	29-Dec-20	12-Jan-21	12	16-Feb-21	01-Mar-21
DPR - CH6080-6150 - Excavation to S3	12	30-Dec-20	13-Jan-21	12	17-Feb-21	02-Mar-21
DPR - CH6008-6080 - Excavation to FEL	7	13-Jan-21	20-Jan-21	7	02-Mar-21	09-Mar-21
DPR - CH6080-6150 - Strut S3 Installation	12	14-Jan-21	27-Jan-21	12	03-Mar-21	16-Mar-21
DPR - CH6080-6150 - Excavation to S4	12	28-Jan-21	10-Feb-21	12	17-Mar-21	30-Mar-21
DPR - CH6080-6150 - Strut S4 Installation	12	11-Feb-21	27-Feb-21	12	31-Mar-21	17-Apr-21
DPR - CH6080-6150 - Excavation FEL	5	01-Mar-21	05-Mar-21	5	19-Apr-21	23-Apr-21
Permanent Structure	80	18-Feb-21	28-May-21	80	08-Apr-21	14-Jul-21
DPR - CH5962-6080 - Base Slab	48	18-Feb-21	19-Apr-21	48	08-Apr-21	04-Jun-21
DPR - CH6080-6150 - Base Slab	66	06-Mar-21	28-May-21	66	24-Apr-21	14-Jul-21
WEST VENTILATION BUILDING [WVB]	180	23-Oct-20	04-Jun-21	179	03-Oct-20 A	13-May-21
ELS system & Foundation	180	23-Oct-20	04-Jun-21	179	03-Oct-20 A	13-May-21
Mobilization & Predrilling for H-piles Foundation (not required)	48	23-Oct-20	18-Dec-20	0	03-Oct-20 A	03-Oct-20 A
WVB - H-piles Drilling / Installation / Grouting 50% completion (not required)	66	19-Dec-20	12-Mar-21	0	03-Oct-20 A	03-Oct-20 A
WVB - H-piles Drilling / Installation / Grouting 100% completion (not required)	66	13-Mar-21	04-Jun-21	0	03-Oct-20 A	03-Oct-20 A
WVB - Sheet Piles Installation 50% completion	48	24-Nov-20	21-Jan-21	48	13-Jan-21	12-Mar-21
WVB - Sheet Piles Installation 100% completion	48	22-Jan-21	22-Mar-21	48	13-Mar-21	13-May-21
SUPPORTING UNDERGROUND STRUCTURE [SUS	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A
Site Inspection	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A
Condition Survey to verify SUS as-built	48	02-Jan-20	29-Feb-20	51	02-Jan-20 A	04-Mar-20 A
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	421	31-Dec-19	05-Jun-21	337	12-Mar-20 A	04-May-21



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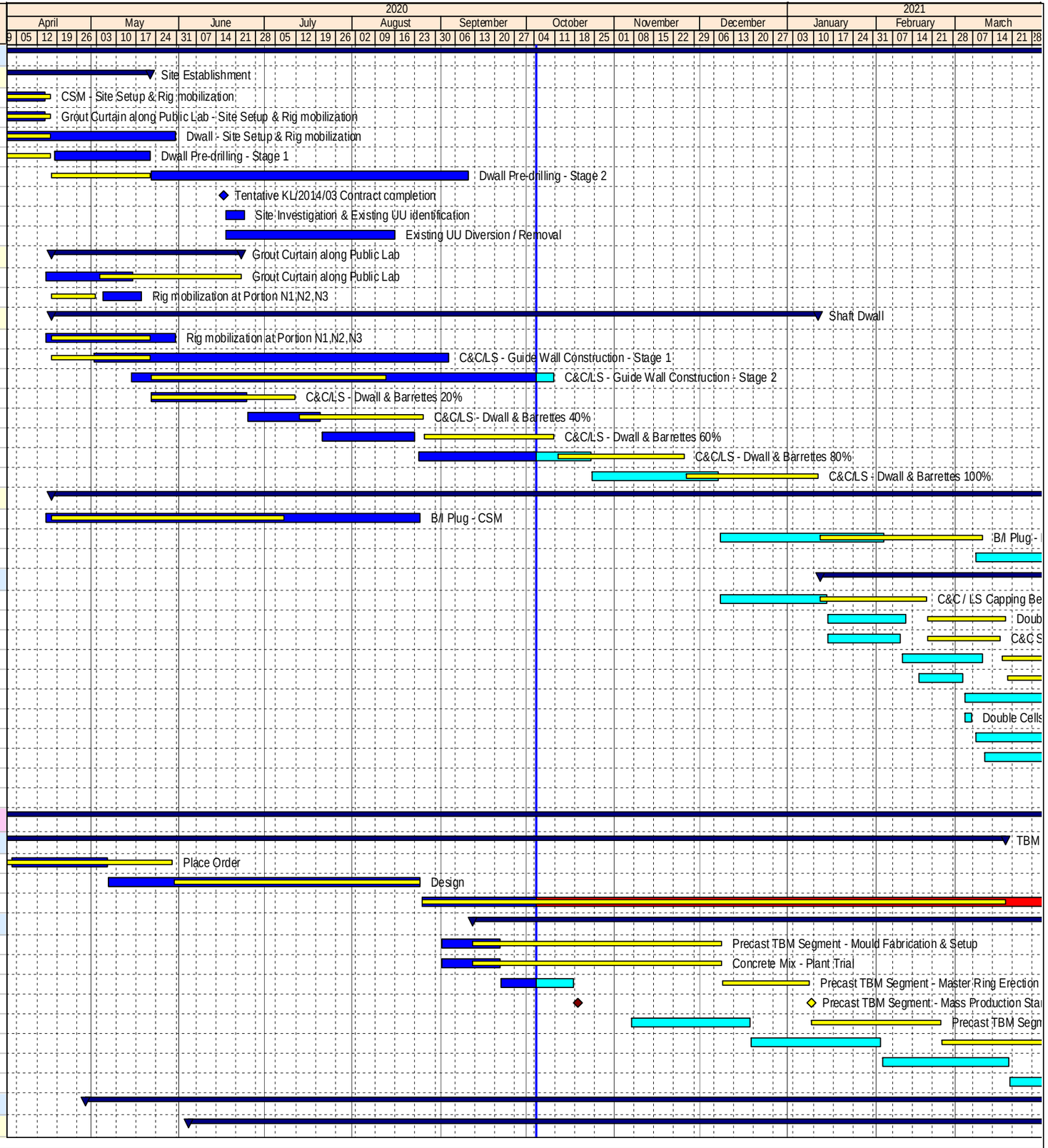
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
Dwall & Ground Treatment	400	31-Dec-19	11-May-21	316	12-Mar-20 A	08-Apr-21
Site Establishment	112	31-Dec-19	21-May-20	149	12-Mar-20 A	10-Sep-20 A
CSM - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	25	12-Mar-20 A	14-Apr-20 A
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
Dwall - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	48	30-Mar-20 A	30-May-20 A
Dwall Pre-drilling - Stage 1	12	30-Mar-20	16-Apr-20	27	18-Apr-20 A	21-May-20 A
Dwall Pre-drilling - Stage 2	28	17-Apr-20	21-May-20	94	22-May-20 A	10-Sep-20 A
Tentative KL/2014/03 Contract completion	0		31-Dec-19	0		16-Jun-20 A
Site Investigation & Existing UU identification	36	02-Jan-20	15-Feb-20	6	17-Jun-20 A	24-Jun-20 A
Existing UU Diversion / Removal	36	17-Feb-20	28-Mar-20	50	17-Jun-20 A	15-Aug-20 A
Grout Curtain along Public Lab	55	17-Apr-20	22-Jun-20	27	15-Apr-20 A	18-May-20 A
Grout Curtain along Public Lab	43	04-May-20	22-Jun-20	25	15-Apr-20 A	15-May-20 A
Rig mobilization at Portion N1,N2,N3	12	17-Apr-20	02-May-20	12	05-May-20 A	18-May-20 A
Shaft Dwall	221	17-Apr-20	11-Jan-21	196	15-Apr-20 A	07-Dec-20
Rig mobilization at Portion N1,N2,N3	28	17-Apr-20	21-May-20	38	15-Apr-20 A	30-May-20 A
C&C/LS - Guide Wall Construction - Stage 1	28	17-Apr-20	21-May-20	105	02-May-20 A	03-Sep-20 A
C&C/LS - Guide Wall Construction - Stage 2	69	22-May-20	12-Aug-20	124	15-May-20 A	10-Oct-20
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 40%	38	13-Jul-20	25-Aug-20	20	25-Jun-20 A	20-Jul-20 A
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 80%	38	12-Oct-20	25-Nov-20	51	24-Aug-20 A	23-Oct-20
C&C/LS - Dwall & Barrettes 100%	37	26-Nov-20	11-Jan-21	37	24-Oct-20	07-Dec-20
Break-in Plug	316	17-Apr-20	11-May-21	291	15-Apr-20 A	08-Apr-21
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	08-Dec-20	03-Feb-21
Dwall / Barrettes - Setup & Rigs Demobilization	24	13-Apr-21	11-May-21	24	08-Mar-21	08-Apr-21
Shaft Excavation & Strutting	116	12-Jan-21	05-Jun-21	116	08-Dec-20	04-May-21
C&C / LS Capping Beam / Pump Test - Lead Time	30	12-Jan-21	18-Feb-21	30	08-Dec-20	14-Jan-21
Double Cells Shaft - Excavation - Stage 1 to below Concrete Strut	24	19-Feb-21	18-Mar-21	24	15-Jan-21	11-Feb-21
C&C Shaft - Concete Strutting Slab + Excavation Step 1	22	19-Feb-21	16-Mar-21	22	15-Jan-21	09-Feb-21
C&C Shaft - Concete Strutting Slab + Excavation Step 2	22	17-Mar-21	15-Apr-21	22	10-Feb-21	10-Mar-21
Cell 1 & Cell 2 Concrete Strut Construction	14	19-Mar-21	08-Apr-21	14	16-Feb-21	03-Mar-21
Double Cells Shaft - Excavation - Step 2 to FEL	48	09-Apr-21	05-Jun-21	48	04-Mar-21	04-May-21
Double Cells Shaft - Excavation - Step 2 to FEL	0			3	04-Mar-21	06-Mar-21
Double Cells Shaft - Excavation - Step 2 to FEL	0			37	08-Mar-21	23-Apr-21
C&C Shaft - Concete Strutting Slab + Excavation Step 3	22	16-Apr-21	12-May-21	22	11-Mar-21	09-Apr-21
C&C Shaft - Concete Strutting Slab + Excavation Step 4	18	13-May-21	03-Jun-21	18	10-Apr-21	30-Apr-21
Double Cells Shaft - Excavation - Step 2 to FEL	0			8	24-Apr-21	04-May-21
SUB-SEA TBM TUNNEL - WESTBOUND	401	29-Feb-20	09-Jul-21	345	03-Apr-20 A	05-Jun-21
TBM Design / Fabrication / FAT / Delivery	312	29-Feb-20	18-Mar-21	319	03-Apr-20 A	05-May-21
Place Order	72	29-Feb-20	29-May-20	23	03-Apr-20 A	06-May-20 A
Design	72	30-May-20	24-Aug-20	92	07-May-20 A	24-Aug-20 A
Fabrication	168	25-Aug-20	18-Mar-21	204	25-Aug-20 A	05-May-21
Precast Fabrication	240	12-Sep-20	08-Jul-21	199	01-Sep-20 A	06-May-21
Precast TBM Segment - Mould Fabrication & Setup	72	12-Sep-20	08-Dec-20	18	01-Sep-20 A	21-Sep-20 A
Concrete Mix - Plant Trial	72	12-Sep-20	08-Dec-20	18	01-Sep-20 A	21-Sep-20 A
Precast TBM Segment - Master Ring Erection & Inspection	24	09-Dec-20	08-Jan-21	21	22-Sep-20 A	17-Oct-20
Precast TBM Segment - Mass Production Start	0	09-Jan-21		0	19-Oct-20	
Precast TBM Segment - 3%	36	09-Jan-21	23-Feb-21	36	07-Nov-20	18-Dec-20
Precast TBM Segment - 6%	36	24-Feb-21	10-Apr-21	36	19-Dec-20	02-Feb-21
Precast TBM Segment - 10%	36	12-Apr-21	25-May-21	36	03-Feb-21	19-Mar-21
Precast TBM Segment - 20%	36	26-May-21	08-Jul-21	36	20-Mar-21	06-May-21
Site Establishment	354	29-Apr-20	09-Jul-21	335	20-Apr-20 A	05-Jun-21
Temporary CLP 132kV Substation	264	04-Jun-20	24-Apr-21	301	20-Apr-20 A	24-Apr-21



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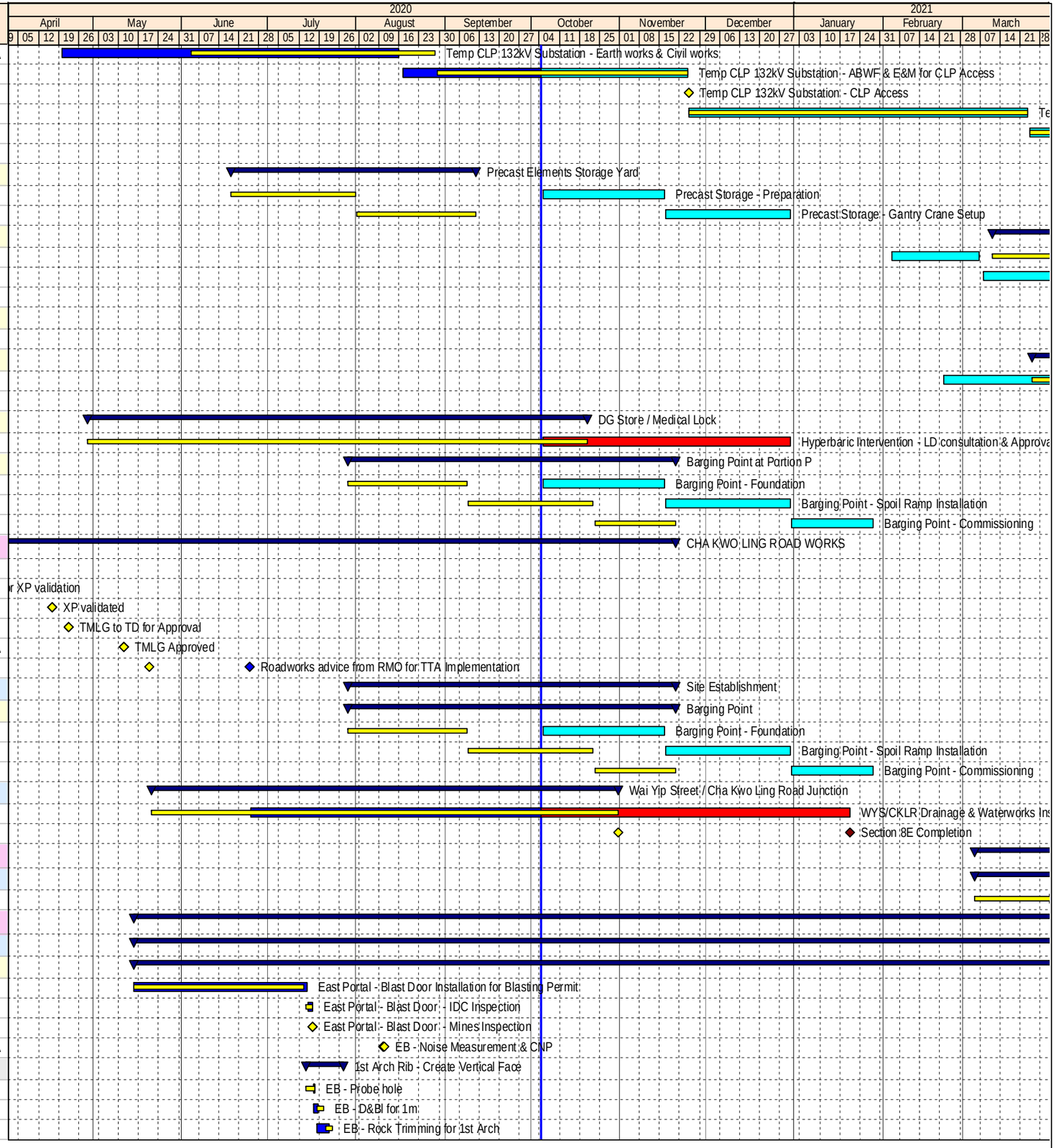
17-Jul-20	01V2	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
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 - ABWF & E&M for CLP Access	72	29-Aug-20	24-Nov-20	83	17-Aug-20 A	24-Nov-20
Temp CLP 132kV Substation - CLP Access	0	25-Nov-20		0	25-Nov-20	
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	96	25-Nov-20	23-Mar-21	96	25-Nov-20	23-Mar-21
Temp CLP 132kV Substation - FSD / WSD Inspection	24	24-Mar-21	24-Apr-21	24	24-Mar-21	24-Apr-21
Temp CLP 132kV Substation - Power On	0		24-Apr-21	0		24-Apr-21
Precast Elements Storage Yard	72	18-Jun-20	11-Sep-20	72	05-Oct-20	30-Dec-20
Precast Storage - Preparation	36	18-Jun-20	31-Jul-20	36	05-Oct-20*	16-Nov-20
Precast Storage - Gantry Crane Setup	36	01-Aug-20	11-Sep-20	36	17-Nov-20	30-Dec-20
Gantry Crane Setup for TBM Assembly	84	11-Mar-21	24-Jun-21	84	04-Feb-21	22-May-21
Gantry Crane - Foundation	24	11-Mar-21	12-Apr-21	24	04-Feb-21	06-Mar-21
Gantry Crane - RC beam & Rail installation	24	13-Apr-21	11-May-21	24	08-Mar-21	08-Apr-21
Gantry Crane - Delivery & Assembly	36	12-May-21	24-Jun-21	36	09-Apr-21	22-May-21
Slurry Treatment Plant	36	12-May-21	24-Jun-21	36	09-Apr-21	22-May-21
Slurry Treatment Plant - Civil works	36	12-May-21	24-Jun-21	36	09-Apr-21	22-May-21
Mortar Plant	84	25-Mar-21	09-Jul-21	84	22-Feb-21	05-Jun-21
Mortar Plant - Civil works	36	25-Mar-21	12-May-21	36	22-Feb-21	09-Apr-21
Mortar Plant - Installation	48	12-May-21	09-Jul-21	48	09-Apr-21	05-Jun-21
DG Store / Medical Lock	144	29-Apr-20	20-Oct-20	72	05-Oct-20	30-Dec-20
Hyperbaric Intervention - LD consultation & Approval	144	29-Apr-20	20-Oct-20	72	05-Oct-20*	30-Dec-20
Barging Point at Portion P	96	29-Jul-20	20-Nov-20	96	05-Oct-20	28-Jan-21
Barging Point - Foundation	36	29-Jul-20	08-Sep-20	36	05-Oct-20	16-Nov-20
Barging Point - Spoil Ramp Installation	36	09-Sep-20	22-Oct-20	36	17-Nov-20	30-Dec-20
Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	24	31-Dec-20	28-Jan-21
CHA KWO LING ROAD WORKS	220	25-Feb-20	20-Nov-20	276	25-Feb-20 A	28-Jan-21
TTA Phasing	0		25-Feb-20	0		25-Feb-20 A
TMLG for XP validation	0		14-Mar-20	0		14-Mar-20 A
XP validated	0		16-Apr-20	0		16-Apr-20 A
TMLG to TD for Approval	0		22-Apr-20	0		22-Apr-20 A
TMLG Approved	0		11-May-20	0		11-May-20 A
Roadworks advice from RMO for TTA Implementation	0		20-May-20	0		24-Jun-20 A
Site Establishment	96	29-Jul-20	20-Nov-20	96	05-Oct-20	28-Jan-21
Barging Point	96	29-Jul-20	20-Nov-20	96	05-Oct-20	28-Jan-21
Barging Point - Foundation	36	29-Jul-20	08-Sep-20	36	05-Oct-20	16-Nov-20
Barging Point - Spoil Ramp Installation	36	09-Sep-20	22-Oct-20	36	17-Nov-20	30-Dec-20
Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	24	31-Dec-20	28-Jan-21
Wai Yip Street / Cha Kwo Ling Road Junction	136	21-May-20	31-Oct-20	172	25-Jun-20 A	20-Jan-21
WYS/CKLR Drainage & Waterworks Installation	136	21-May-20	31-Oct-20	172	25-Jun-20 A	20-Jan-21
Section 8E Completion	0		31-Oct-20	0		20-Jan-21
DRILL & BREAK TUNNEL [D&BR]	34	05-Mar-21	17-Apr-21	34	31-Mar-21	14-May-21
Tunnel Excavation	34	05-Mar-21	17-Apr-21	34	31-Mar-21	14-May-21
EB - D&Br Tunnel - CH9057-9040 Type D - Excavation	34	05-Mar-21	17-Apr-21	34	31-Mar-21	14-May-21
DRILL & BLAST TUNNEL [D&BL]	279	15-May-20	22-Apr-21	301	15-May-20 A	20-May-21
Tunnel Excavation	279	15-May-20	22-Apr-21	301	15-May-20 A	20-May-21
Eastbound	279	15-May-20	22-Apr-21	301	15-May-20 A	20-May-21
East Portal - Blast Door Installation for Blasting Permit	49	15-May-20	13-Jul-20	50	15-May-20 A	14-Jul-20 A
East Portal - Blast Door - IDC Inspection	3	14-Jul-20	16-Jul-20	2	15-Jul-20 A	16-Jul-20 A
East Portal - Blast Door - Mines Inspection	0		16-Jul-20	0		16-Jul-20 A
EB - Noise Measurement & CNP	0		10-Aug-20	0		10-Aug-20 A
1st Arch Rib - Create Vertical Face	12	14-Jul-20	27-Jul-20	11	17-Jul-20 A	29-Jul-20 A
EB - Probe hole	4	14-Jul-20	17-Jul-20	1	17-Jul-20 A	17-Jul-20 A
EB - D&Bl for 1m	2	18-Jul-20	20-Jul-20	2	17-Jul-20 A	18-Jul-20 A
EB - Rock Trimming for 1st Arch	3	21-Jul-20	23-Jul-20	4	18-Jul-20 A	22-Jul-20 A



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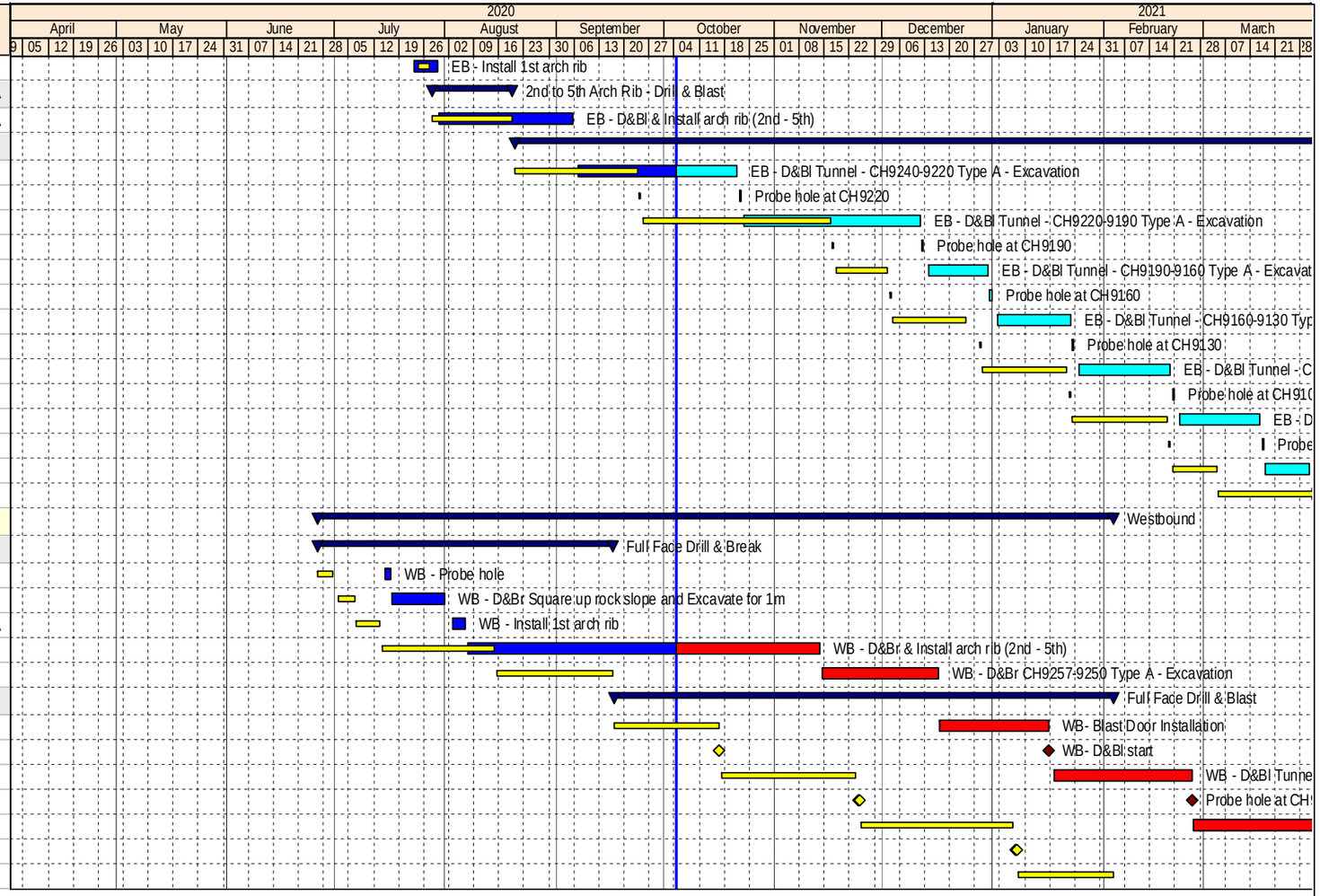
Activity Name	Dur	01V2 Start	01V2 Finish	Dur	Start	Finish
EB - Install 1st arch rib	3	24-Jul-20	27-Jul-20	6	23-Jul-20 A	29-Jul-20 A
2nd to 5th Arch Rib - Drill & Blast	20	28-Jul-20	19-Aug-20	33	30-Jul-20 A	05-Sep-20 A
EB - D&Bl & Install arch rib (2nd - 5th)	20	28-Jul-20	19-Aug-20	33	30-Jul-20 A	05-Sep-20 A
Full Face Drill & Blast	198	20-Aug-20	22-Apr-21	205	07-Sep-20 A	20-May-21
EB - D&Bl Tunnel - CH9240-9220 Type A - Excavation	30	20-Aug-20	23-Sep-20	37	07-Sep-20 A	21-Oct-20
Probe hole at CH9220	1	24-Sep-20	24-Sep-20	1	22-Oct-20	22-Oct-20
EB - D&Bl Tunnel - CH9220-9190 Type A - Excavation	42	25-Sep-20	16-Nov-20	42	23-Oct-20	11-Dec-20
Probe hole at CH9190	1	17-Nov-20	17-Nov-20	1	12-Dec-20	12-Dec-20
EB - D&Bl Tunnel - CH9190-9160 Type A - Excavation	13	18-Nov-20	02-Dec-20	13	14-Dec-20	30-Dec-20
Probe hole at CH9160	1	03-Dec-20	03-Dec-20	1	31-Dec-20	31-Dec-20
EB - D&Bl Tunnel - CH9160-9130 Type A&B&C - Excavation	18	04-Dec-20	24-Dec-20	18	02-Jan-21	22-Jan-21
Probe hole at CH9130	1	28-Dec-20	28-Dec-20	1	23-Jan-21	23-Jan-21
EB - D&Bl Tunnel - CH9130-9100 Type C - Excavation	20	29-Dec-20	21-Jan-21	20	25-Jan-21	19-Feb-21
Probe hole at CH9100	1	22-Jan-21	22-Jan-21	1	20-Feb-21	20-Feb-21
EB - D&Bl Tunnel - CH9100-9070 Type C&D - Excavation	20	23-Jan-21	18-Feb-21	20	22-Feb-21	16-Mar-21
Probe hole at CH9070	1	19-Feb-21	19-Feb-21	1	17-Mar-21	17-Mar-21
EB - D&Bl Tunnel - CH9070-9057 Type D - Excavation	11	20-Feb-21	04-Mar-21	11	18-Mar-21	30-Mar-21
EB - D&Bl Tunnel - CH9150-9090 Type B/C - Enlargement	38	05-Mar-21	22-Apr-21	38	31-Mar-21	20-May-21
Westbound	184	26-Jun-20	03-Feb-21	242	15-Jul-20 A	08-May-21
Full Face Drill & Break	70	26-Jun-20	16-Sep-20	130	15-Jul-20 A	16-Dec-20
WB - Probe hole	4	26-Jun-20	30-Jun-20	2	15-Jul-20 A	16-Jul-20 A
WB - D&Br Square up rock slope and Excavate for 1m	4	02-Jul-20	06-Jul-20	13	17-Jul-20 A	31-Jul-20 A
WB - Install 1st arch rib	6	07-Jul-20	13-Jul-20	4	03-Aug-20 A	06-Aug-20 A
WB - D&Br & Install arch rib (2nd - 5th)	28	14-Jul-20	14-Aug-20	82	07-Aug-20 A	13-Nov-20
WB - D&Br CH9257-9250 Type A - Excavation	28	15-Aug-20	16-Sep-20	28	14-Nov-20	16-Dec-20
Full Face Drill & Blast	114	17-Sep-20	03-Feb-21	112	17-Dec-20	08-May-21
WB- Blast Door Installation	24	17-Sep-20	16-Oct-20	24	17-Dec-20	16-Jan-21
WB- D&Bl start	0		16-Oct-20	0		16-Jan-21
WB - D&Bl Tunnel - CH9250-9230 Type A - Excavation	31	17-Oct-20	23-Nov-20	31	18-Jan-21	25-Feb-21
Probe hole at CH9230	1		24-Nov-20	0		25-Feb-21
WB - D&Bl Tunnel - CH9230-9200 Type A - Excavation	34	25-Nov-20	06-Jan-21	34	26-Feb-21	10-Apr-21
Probe hole at CH9200	1		07-Jan-21	0		10-Apr-21
WB - D&Bl Tunnel - CH9200-9170 Type A - Excavation	23	08-Jan-21	03-Feb-21	23	12-Apr-21	08-May-21



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