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By Post

Our Ref : P221002-EMA-202411-V Date : 6th December 2024

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Attn: Wilson CK Lam

Agreement No. DHSR/IEC/001

Consultancy Service of Independent Environmental Checker (IEC) for Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns under Contract No. 21/WSD/21

Monthly EM&A Report for November 2024

Dear Sir,

Pursuant to Condition 3.4 of Environmental Permit (EP) No. EP-602/2021, please note the Monthly Environmental and Audit Report for November 2024, dated 5 December 2024 submitted under the EP, certified by the Environmental Team Leader on 5 December 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting .

Your faithfully, For and on behalf of: Umwelt Consulting Limited

Ting Po Chung Ivan Independent Environmental Checker







Contract No. 21/WSD/21

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

Monthly Environmental and Audit Report November 2024

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EXECUTIVE SUMMARY

This is the 20th Monthly Environment Monitoring and Audit (EM&A) Report for Relocation of Diamon Hill Fresh Water and Salt Water Service Reservoirs to Caverns (the Project). This report was prepared by Acuity Sustainability Consulting Limited under Contract No. 21/WSD/21 (hereafter called "the Contract"). This report documents the findings of EM&A works during the reporting period from 1 November to 30 November 2024.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

Portion 1 & 3:

- Prepare for Mined Tunnel Work Force and Machines
- Within shaft, install and remove some strutting
- PAB Pipe Pile Installation (Ø355)
- PAB Excavation & Tie Back Installation
- C/C Tunnel construction
- Steel work for raking strut
- Pump house E&M provision
- Tunnel Pre-support

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works

Environmental Monitoring and Audit Programme

The monthly EM&A programme was undertaken by the Environmental Team in accordance with the EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented below:



Table I Summary of EM&A Activities in the Reporting Period

EM&A Activities	Date		
1-hour TSP Monitoring	4, 9, 15, 21 and 27 November 2024		
Construction Noise Monitoring	4, 15, 21 and 27 November 2024		
Weekly Environmental Site Inspection	1, 8, 13 22 and 29 November 2024		

Breaches of Action and Limit Levels

A summary of the environmental monitoring exceedance of the reporting period is tabulated in **Table II**.

Environmental Monitoring Parameter		No. of non- project related exceedances AL LL		Total no. of non-project related exceedances	No. exceed relate the pr AL	ances ed to	Total no. of exceedances related to the project
Air Quality	1-hour TSP	0	0	0	0	0	0
Noise	$L_{eq(30-\min)}$	0	0	0	0	0	0

 Table II
 Summary of Exceedance in the Reporting Period

Note:

1. AL refers to Action Level and LL refers to Limit Level.

Air Quality

No exceedance of Action Level or Limit Level was recorded for 1-hour TSP monitoring during the reporting period.

Construction Noise

No Action Level exceedance was recorded for construction noise monitoring during the reporting period.

No Limit Level exceedance was recorded for construction noise monitoring during the reporting period.

Complaint Log

No environmental complaint was received in the reporting period.

Notification of Summons and Successful Prosecutions

No notification of summons or successful prosecutions was received in the reporting period.

Reporting Change

There was no reporting change in the reporting period.



Future Key Construction Activities

Key construction activities to be considered in the next two months included:

Portion 1 & 3:

- Prepare for Mined Tunnel Work Force and Machines
- Within shaft, install and remove some strutting
- Substation Construction
- PAB Excavation & Tie Back Installation
- C/C Tunnel construction
- Steel work for raking strut
- Pump house E&M provision
- Tunnel Pre-support

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water pollution control, waste management and landscape and visual.



1. INTRODUCTION

1.1 **Project Background**

- 1.1.1 The relocated Diamond Hill Fresh Water and Salt Water Service Reservoirs (DHSRs) will be constructed in a series of caverns linked by access tunnels and adits. The relocated Diamond Hill Fresh Water Service Reservoirs (DHFWSR) and Diamond Hill Salt Water Service Reservoirs (DHSWSR) will be compartmented while the existing Diamond Hill Pumping Station (DHPS) will be split into two (2) pump houses for fresh and salt water supply when relocated.
- 1.1.2 Ancillary facilities to be constructed near the tunnel portal may include transformer room, switch room, emergency generator room, control room, ventilation building, and pumping station control room, which will be constructed in an above-ground building outside the tunnel.
- 1.1.3 The scope of the Project comprises the following:
 - a) Construction of the relocated DHSRs and associated pumping stations and water main laying works;
 - b) Construction of tunnels, adits, ventilation system and caverns for accommodating the relocated DHSRs and the associated facilities;
 - c) Terminating the operation of the existing DHSRs and the associated facilities; and
 - d) All other associated works that are incidental to and necessary for the completion of the Project.
- 1.1.4 The major construction activities of the Project include earthworks, drilling and blasting, construction of concrete structures, handling and transportation of excavated materials, water mains laying, installation of electrical and mechanical (E&M) equipment and material transportation. The operation of the existing DHSRs and the associated facilities will be terminated after the completion of the testing and commissioning of the relocated DHSRs. Under the Project, the existing DHSRs and associated facilities will be retained after termination of the operation. The subsequent demolition works will be carried out by other government departments/ project proponents.
- 1.1.5 The Project construction was commenced on 31 March 2023 and the completion date for the construction works would be on 12 April 2027.
- 1.1.6 The Project is a Designated Project under Item Q.2, Part I of Schedule 2 of the Environmental Impact Assessment Ordinance, "Underground Rock Caverns", which requires an environmental permit from the Environmental Protection Department (EPD) for its construction and operation.
- 1.1.7 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of EPD granted the Environmental Permits (EP-602/2021) to the Water Supplies Department (WSD) for the Project.



- 1.1.8 Acuity Sustainability Consulting Limited (ASCL) is commissioned by Chun Wo Sinohydro Joint Venture to undertake the role of Environmental Team under the Environmental Permit (EP) EP-602/2021, and to carry out the EM&A programme in fulfilment of the EM&A Manual, and other requirements stipulated in the associated EIA Report.
- 1.1.9 This is the 20th Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 1 November to 30 November 2024 (the reporting period) and is submitted to fulfil the requirements under Condition 3.4 of EP-602/2021 and Section 13.3 of the EM&A Manual of the Project.

1.2 Construction Works Programme

1.2.1 The construction works of the Project was commenced on 31 March 2023. The construction works programme, and the location of construction works of the Project are shown in **Appendix A** and **Figure 1.1**, respectively. A summary of construction activities undertaken during the reporting period is presented below:

Portion 1 & 3:

- Prepare for Mined Tunnel Work Force and Machines
- Within shaft, install and remove some strutting
- PAB Pipe Pile Installation (Ø355)
- PAB Excavation & Tie Back Installation
- C/C Tunnel construction
- Steel work for raking strut
- Pump house E&M provision
- Tunnel Pre-support

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works



1.2.2 **Table 1.1** summarise the status of temporary traffic sections near the works sites.

Table 1.1	Status of the Temporary Traffic Arrangement (TTA) Sections
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Name of TTA	Status
Section 1 – Lion Rock Road	Implemented
Section 1 - Chuk Yuen Road (Westbound) near Tin Ma Court	Implemented
Section 1 - Chuk Yuen Road (Eastbound) near Tin Wang Court	Implemented
Section 2 - Chuk Yuen Road near Pang Ching Court	Implemented
Section 2 – Chuk Yuen Road near Pang Ching Court (eastbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen South Estate (westbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen Estate Bus Terminus (westbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen Estate Bus Terminus (eastbound)	Implemented
Section 3 - Chuk Yuen Road near Bus Terminus (eastbound)	Implemented
Section 3 - Chuk Yuen Road near Market (westbound)	Implemented
Section 3 - Shatin Pass Road Top	Removed
Section 3 - Shatin Pass Road Middle	Removed
Section 3 - Tsz Wan Shan Road stage 3	Implemented
Section 3 - Lung Fung Street (Combine TTA with CSCE)	Implemented
Section 3 – Sheung Fung Street	Implemented

1.3 Project Organization

- 1.3.1 Different parties with different levels of involvement in the Project organization include:
 - Project Proponent: Water Supplies Department (WSD)
 - Supervisor/ Engineer's Representative (ER): Binnies Hong Kong Limited



- Contractor: Chun Wo Sinohydro Joint Venture
- Environmental Team (ET): Acuity Sustainability Consulting Limited
- Independent Environmental Checker (IEC): Umwelt Consulting Limited
- 1.3.2 The key personnel contact names and telephone number are presented in **Appendix B**.

1.4 License, Notification and Permits

1.4.1 A summary of the relevant permit, licences, and/ or notifications on environmental protection for this Project are presented in **Table 1.2**.

Table 1.2 Status of Environmental License, Notifications and Permits

Den 14 / Line and Nu	Valid	S4 - 4						
Permit / License No.	From	Expired On	- Status					
Environmental Permit								
EP-602/2021	14/12/2021	-	Valid					
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation								
Ref. No.: 487301	09/12/2022	-	Valid					
Billing Account for Disposal of Constru	uction Waste							
7046085	04/01/2023	-	Valid					
Registration of Chemical Waste Produc	cer							
WPN 5213-282-C4760-0	30/12/2022	-	Valid					
Effluent Discharge License under Wate	r Pollution Contro	ol Ordinance						
WT00043965-2023	31/05/2023	31/05/2028	Valid					
WT10002621-2023	08/04/2024	30/04/2029	Valid					
Construction Noise Permit								
GW-RE0823-24	17/07/2024	19/11/2024	To be renewed					
GW-RE1199-24	07/10/2024	05/04/2025	Valid					
GW-RE0982-24	02/11/2024	22/12/2024	Valid					
GW-RE1223-24	14/10/2024	27/03/2025	Valid					
GW-RE1448-24	20/11/2024	31/03/2025	Renewal of GW-RE0823- 24					
GW-RE1542-24	04/12/2024	03/06/2024	To be Valid (Replacement					



Permit / License No.	Valid Period		Status
Fermit / License No.	From	Expired On	Status
			of GW-
			RE1199-24)

1.4.2 The submission status of the EP and the implementation status of the mitigation measures stated in the EP had been reviewed, all submission were submitted/ deposited to the Director of Environmental Protection (DEP) on schedule, no non-compliance of EP conditions was recorded during the reporting period. The summary of submission status under Environmental Permit EP-602/2021 are summarized in **Table 1.3**.

Table 1.3	Summary	of Status	of Submi	ission un	der EP-602/2021

EP Condition	Title of Submission	Submission Status
1.11	Commencement Date of Construction	Notified the DEP on 22 Feb 2023
2.9	Management Organization(s)	Informed the DEP on 20 Feb 2023
2.10	Environmental Permit (EP) Submission Schedule	22 Feb 2022 (1st Submission)
2.11	Construction Works Schedule and Location Plan	28 Feb 2023 (Deposited)
2.12	Construction Noise Management Plan (CNMP)	 28 Feb 2023 (1st submission) The EPD's comments were issued on 8 Mar 2023 The revised CNMP was submitted to the EPD for comment on 31 Jul 2023. The EPD issued further comments on 16 Aug 2023. The CNMP was further revised, certified by the ET Leader, verified by the IEC, and issued to the EPD on 22 Aug 2023. The revised CNMP was submitted to the EPD for comment on 15 Sept 2023. The EPD had no further comment on 5 Oct 2023.
2.13	Waste Management Plan (WMP)	 28 Feb 2023 (1st submission) The EPD's comments were issued on 3 Apr 2023.



EP Condition	Title of Submission	Submission Status
		 The revised WMP was submitted to the EPD for comment on 26 July 2023. The WMP was further updated and submitted to the EPD on 16 Aug 2023. The EPD had no further comment on 19 Sep 2023.
2.14	Landscape and Visual Mitigation Plan (LVMP)	 28 Feb 2022 (1st Submission) The EPD's comments were issued on 29 Mar 2023. The revised LVMP was certified by the ET Leader, verified by the IEC, and issued to the EPD on 22 Aug 2023. The EPD issued further comments on 11 Sep 2023. The revised LVMP was certified by the IEC, and issued to the EPD on 15 Jan 2024. The EPD issued further comments on 31 Jan 2024. The revised LVMP was certified by the ET Leader, verified by the IEC, and issued to the EPD on 15 Jan 2024. The revised LVMP was certified by the ET Leader, verified by the IEC, and issued to the EPD on 19 Apr 2024 The EPD had no further comment on 29 Apr 2024.
3.3	Baseline Monitoring Report	 17 Mar 2023 (1st Submission) 27 Apr 2023 (2nd Submission) 1 June 2023 (3rd Submission) 13 July 2023 (Formal submission) 3 Aug 2023 (accepted by the EPD)
3.4	Monthly EM&A Report (October 2024)	8 November 2024
4.2	Dedicated Internet Website	2 May 2023

 1.4.3 Following the EPD's comments on the Baseline Monitoring Report (Ref. No. BMR-3.1, dated 17 March 2023), updating of air quality and noise monitoring locations were proposed, including cancellation of noise monitoring station at Tower 1, Meridian Hill (NM-1), resumption of air quality and noise monitoring stations at Block 6, Tsui Chuk Garden (i.e. DM-4 and NM-4) and proposal of new noise



monitoring locations at Wo Tin House, Shatin Pass Estate (NM-5) and Sheung Fung Street Customs Staff Quarter (NM-6).

1.4.4 Additional baseline monitoring for air quality monitoring station DM-4, and noise monitoring stations NM-4, NM-5 and NM-6 was carried out between 2 May and 16 May 2023. The Baseline Monitoring Report was updated with all baseline monitoring results included, certified by the ET Leader, and verified by the IEC on 30 May 2023. The updated Baseline Monitoring Report was submitted to the EPD on 1 June 2023. A minor comment was received from the EPD on 26 June 2023. Following the advice from the EPD, the Report was formally submitted to the EPD on 13 July 2023 after amendment. The Report was accepted by the EPD on 3 August 2023.

1.5 Brief Summary of EM&A Requirements

<u>Air Quality</u>

- 1.5.1 In accordance with the EM&A Manual, the ET shall carry out impact monitoring during construction phase of the project. For 1-hour Total Suspended Particulates (TSP) monitoring, the sampling frequency of at least three times every six days should be undertaken when the highest dust impact occurs.
- 1.5.2 Action and Limit Levels for the 1-hour TSP monitoring works are discussed in **Section 2.4**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.3 The air quality mitigation measures detailed in the EM&A Manual were recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

Noise Monitoring

- 1.5.4 Construction noise monitoring should be carried out at the designated monitoring stations directly affected by the construction works once every week after the commencement of construction. During construction works, one set of $L_{eq(30-min)}$ measurement at each station between 0700 and 1900 hours on normal weekdays shall be taken. If construction works are extended to include works during the period between 1900 and 0700 hours, additional weekly impact monitoring shall be carried out during evening and night-time works.
- 1.5.5 Action and Limit Levels for the noise monitoring are discussed in **Section 3.5**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.6 The noise mitigation measures detailed in the EM&A Manual are recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

Environmental Requirements in Contract Documents



- 1.5.7 According to *Particular Specification (PS)*, the Contractor shall undertake environmental protection measures to reduce the environmental impacts arising from the execution of the works. The Contractor shall also observe and comply with relevant environmental protection and pollution control ordinances. The Contractor shall design, construct, operate and maintain pollution control measures to ensure compliance with the contract provisions as well as the environmental ordinances and their regulations.
- 1.5.8 The Contractor shall also:
 - Implement air pollution and noise abatement practices as specified in *PS*;
 - Minimise generation of wastewater from the Site;
 - On-site sorting of Construction and Demolition (C&D) materials;
 - Establish a mechanism to record the quantities of C&D materials generated each month, using the monthly summary "Waste Flow Table";
 - Control the use of timbers;
 - Implement a trip ticket system (TTS) for tracking the removal of C&D materials from the Site to the disposal grounds;
 - Prepare an Environmental Management Plan (EMP) in accordance with GS Section 25 and *PS* for implementation on the Site to reduce environmental nuisance and C&D materials arising from Works, throughout the construction period;
 - Arrange weekly environmental walk to inspect the Site, checking that the environmental performance of the Site is satisfactory and in compliance with the requirements under the contract and EMP; and
 - Carry out site specific induction training about environmental management as well as safety for all staffs and workers, and provide toolbox talks for workers on environmental nuisance abatement and waste management.



2. AIR QUALITY MONITORING

2.1 Monitoring Locations

2.1.1 The air quality monitoring locations for impact monitoring during the reporting period are listed in **Table 2.1** and presented in **Figure 2.1**.

ID	Description	Coordinates		
ID	Description	Northing	Easting	
DM-1	Tennis Court near Tin Ma Court	822705	837047	
DM-2	Chun Sing House, Tin Ma Court	822673	837143	
DM-3	Grace Methodist Church Kindergarten	822782	837227	
DM-4	Block 6, Tsui Chuk Garden	822926	837246	
DM-4a ⁽¹⁾	Road pavement near Wang King House, Tin Wang Court	822854	837340	

 Table 2.1
 Air Quality Monitoring Stations for Construction Phase

Notes:

1. An additional air quality monitoring station DM-4a was proposed by the ET and agreed by the ER, IEC and EPD.

2.2 Air Quality Monitoring Parameter, Frequency and Duration

2.2.1 **Table 2.2** summarized the monitoring parameter, duration, and frequency of impact air quality monitoring.

Table 2.2	Impact Air	Quality M	Ionitoring F	Parameter,	Duration and	Frequency
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Parameter	Frequency	Duration
1-hour TSP	3 times every 6 days	Throughout the construction phase

2.3 Monitoring Equipment and Methodology and QA/ QC Procedure

Proposal of Using Portable Direct Reading Dust Meter

- 2.3.1 Direct reading dust meters were used for measuring 1-hour TSP levels during the impact air quality monitoring. According to Section 4.4.1 of the EM&A Manual, the proposed use of direct reading dust meters was submitted to and agreed by the IEC.
- 2.3.2 Sufficient number of monitoring instruments was prepared by the ET for carrying out the impact monitoring. All equipment and associated instrumentation were clearly labelled.



- 2.3.3 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.
- 2.3.4 Equipment used in the impact air quality monitoring programme is summarised in **Table 2.3.** Calibration certificates for the impact air quality monitoring equipment are attached in **Appendix E**.

Equipment	Brand and Model	Serial No.	Calibration Due Date
Direct Reading Dust Meter	Sibata LD-5R	0Z4545	28/11/2024
		882106	28/11/2024
		942532	28/11/2024

 Table 2.3
 Impact Air Quality Monitoring Equipment

Maintenance and Calibration

- 2.3.5 Direct reading dust meters have been calibrated against high volume samplers (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meters were taken to compare with the sampling results from the HVSs. The correlation between the direct reading dust meters and the HVSs were then concluded. By accounting for the correlation factor, the direct reading dust meters are considered to achieve comparable results as that of the HVSs.
- 2.3.6 The 1-hour TSP measurement follows the instruction provided in the manufacturer's manual. Before initiating a measurement, zeroing the portable dust meter was carried out to ensure the accuracy of each measurement.

2.4 Action and Limit Levels

2.4.1 The action and limit levels were established in accordance with the EM&A Manual. Table 2.4 presents the action and limits levels for 1-hour TSP monitoring. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in Appendix C shall be carried out.

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m ³)
DM-1	300.1	
DM-2	289.0	
DM-3	289.7	500
DM-4	294.9	
DM-4a	291.6	

Table 2.4 Action and Limit Levels for 1-hour TSP

2.5 Results and Observation

2.5.1 The impact air quality monitoring was conducted on 4, 9, 15, 21 and 27 November 2024. The impact air quality monitoring schedule for the reporting period is shown in **Appendix F**.



2.5.2 The monitoring results and graphical presentation of impact air quality monitoring are shown in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.

Monitoring	TSP C	Concentration	n, μg/m ³		T	
Station	Average	Minimum	Maximum	Action Level	Limit Level	
DM-1	59	56	62	300.1		
DM-2	56	54	58	289.0		
DM-3	37	35	38	289.7	500	
DM-4	44	40	47	294.9		
DM-4a	37	35	40	291.6		

 Table 2.5
 Summary of Impact 1-hour TSP Monitoring Results

2.5.3 During the impact air quality monitoring, the major dust sources at each monitoring stations were summarized in **Table 2.6**.

 Table 2.6 Influencing Factors at/ near Air Quality Monitoring Stations

Monitoring Stations	Influencing Factors
DM-1	Not identified
DM-2	Not identified
DM-3	Not identified
DM-4	Not identified
DM-4a	Not identified

2.5.4 Weather conditions during impact monitoring are presented in **Appendix G** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.



3. NOISE MONITORING

3.1 Monitoring Locations

3.1.1 The monitoring locations for construction noise monitoring are listed in **Table 3.1** and shown in **Figure 3.1**.

ID	Description	Maagunamant	Coordinates		
Ш	Description	Measurement	Northing	Easting	
NM-2	Chun Sing House, Tin Ma Court	Façade	822668	837143	
NM-3	Grace Methodist Church Kindergarten	Façade	822782	837227	
NM-4	Block 6, Tsui Chuk Garden	Façade	822926	837246	
NM-4a ⁽¹⁾	Road pavement near Wang King House, Tin Wang Court	Free field	822854	837340	
NM-5 ⁽²⁾	Wo Tin House, Shatin Pass Estate	Façade	823360	838143	
NM-6 ⁽²⁾	Sheung Fung Street Customs Staff Quarters	Free field	823134	838412	

Table 3.1	Noise Monitoring	Stations during	Construction Phase

Notes:

The noise monitoring station proposed in the EM&A Manual (NM-1) was not available for baseline and impact monitoring. Therefore, impact monitoring at NM-1 was cancelled and agreed by the ER, IEC and EPD.

(1) An additional noise monitoring station NM-4a was proposed by the ET and agreed by the ER, IEC and EPD.

(2) Main laying works near NM-5 and NM-6 were commenced in early September 2023. Noise monitoring at NM-5 and NM-6 was commenced on 7 September 2023.

3.2 Noise Monitoring Parameter, Frequency and Duration

- 3.2.1 Construction noise level was measured by the ET and measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq(30-min)}$ was adopted as the monitoring parameter for the construction noise monitoring.
- 3.2.2 As supplementary information for data auditing, statistical results such as L_{10} and L_{90} were also obtained for reference.
- 3.2.3 **Table 3.2** summarized the monitoring parameters, duration, and frequency of construction noise monitoring.

 Table 3.2 Construction Noise Monitoring Parameter, Frequency and Duration

Parameters	Time	Frequency	Duration
Leq(30-min)	0700 and 1900 hours on normal weekdays	Once every week	Throughout the construction phase

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3.3 Monitoring Equipment, Methodology and QA / QC Procedure

- 3.3.1 As referred to the technical memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used for carrying out the construction noise monitoring.
- 3.3.2 Noise measurements were not made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.3.3 Sufficient number of noise measuring equipment and associated instrumentation was prepared by the Environmental Team. All the equipment and associated instrumentation were clearly labelled.
- 3.3.4 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.
- 3.3.5 The monitoring procedures are as follows:
 - For façade measurement, the monitoring station was set at a point 1 m from the exterior of the sensitive receiver building façade and set at a position 1.2 m above the ground. For free-field measurement, the monitoring station was set at a position 1.2 m above ground.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the interval were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Interval: 30 minutes $(L_{eq(30-\min)})$ would be determined for daytime noise by calculating the logarithmic average of six consecutive $L_{eq(5-\min)}$ data
 - Prior to and after each noise measurement, the meter was calibrated using an acoustic calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement will be required after recalibration or repair of the equipment.
 - At the end of the monitoring period, the values of L_{eq} , L_{90} and L_{10} were recorded. In addition, noise sources were recorded on a standard record sheet.
- 3.3.6 **Table 3.3** summarized the noise monitoring equipment used during the construction noise monitoring. Calibration certificates for the impact noise monitoring equipment are attached in **Appendix E**.



Table 3.3 Construction Noise Monitoring Equipment

Equipment	Model (Serial Number)	Calibration Due Date			
Sound Level Meter	NTi-XL2 (A2A-09696-E0)	01/03/2025			
Sound Calibrator	Rion NC 74 (34615222)	26/03/2025			

3.4 Maintenance and Calibration

- 3.4.1 Maintenance and calibration procedures are as follows:
 - The microphone head of the sound level meter and calibrator were regularly cleaned with a soft cloth; and
 - The sound level meter and acoustic calibrator were calibrated annually by a HOKLAS accredited laboratory or the manufacturer.

3.5 Action and Limit Levels

3.5.1 The Action and Limit Levels were established in accordance with the EM&A Manual. **Table 3.4** presents the Action and Limit Levels for construction noise. Should noncompliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.

Monitoring Stations	Action Level	Limit Level	Time Period
NM-2		75 dB(A)	
NM-3		70/65 dB(A) *	
NM-4	When one	75 dB(A)	0700 - 1900 hours
NM-4a	documented complaint is received	75 dB(A)	on normal weekdays
NM-5		75 dB(A)	
NM-6		75 dB(A)	

 Table 3.4
 Action and Limit Levels for Construction Noise Monitoring

Notes:

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.

* 70 dB(A) for school and 65 dB(A) during school examination period.

3.6 Results and Observations

- 3.6.1 The construction noise monitoring was conducted on 4, 15, 21 and 27 November 2024. The monitoring schedule is presented in **Appendix F**.
- 3.6.2 The construction noise monitoring results are summarized in **Table 3.5**. No Action Level or Limit Level exceedance was recorded in the reporting period. Details of the results and graphical presentation are shown in **Appendix I**.



	Ň	loise Level, dB	Limit Level			
Monitoring Station		$L_{eq}(30\text{-min})$				
Station	Mean	Minimum	Maximum			
NM-2	71.8	70.9	72.2	75 dB(A)		
NM-3	58.2	58.0	58.4	70/ 65 dB(A) ⁽¹⁾		
NM-4	54.3	54.1	54.8	75 dB(A)		
NM-4a	73.2	72.8	74.3	75 dB(A)		
NM-5 ⁽²⁾	68.8	68.5	69.0	75 dB(A)		
NM-6 ⁽²⁾	70.5	69.9	75 dB(A)			

Table 3.5 Summary of Construction Noise Monitoring Results

Note:

(1) 70 dB(A) for school and 65 dB(A) during school examination period.

(2) Impact monitoring at NM-5 and NM-6 was commenced on 7 September 2023.

- 3.6.3 Weather conditions during impact monitoring are presented in **Appendix I** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.
- 3.6.4 During the construction noise monitoring period, the influencing factors which may affect the results are summarized in **Table 3.6**.

Monitoring Stations	Influencing Factors
NM-2	Road traffic noise, construction noise from 76 Broadcast Drive project
NM-3	Road traffic noise
NM-4	Road traffic noise
NM-4a	Road traffic noise
NM-5	Road traffic noise
NM-6	Road traffic noise

 Table 3.6 Influencing Factors at Noise Monitoring Stations



4. WASTE MANAGEMENT

4.1.1 Waste generated from the Project includes inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting period. The amount of waste generated by the construction works of the Project during the reporting period is shown in **Table 4.1** and the cumulative waste flow table was presented in **Appendix J**.

	Actual Quantalities of Inert C&D Materials Generated Monthly			Actual Quantities of C&D Wastes Generated Monthly				Actual Quantities of C&D Wastes Recycled								
Month	Total Quantity Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others e.g., general refuse	Metals	Paper/ cardboard packaging	Plastics (bottles/ containers, plastic sheets/foam package material)	Yard Waste	Others
	(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)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
November 2024	1.7171	0.00000	0.1556	0.7403	0.8212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0177	0.0015	0.0033	0.0003	0.00000	0.00000

Table 4.1 Summary of Waste Generated in the Reporting Period

- 4.1.2 Construction and demolition (C&D) materials sorting was carried out on site. Sufficient receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimize the disposal of C&D waste to public fill.
- 4.1.3 The Contractor was advised to minimize the amount of waste through recycling or reusing. All applicable mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented.



5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

- 5.1.1 Site inspections were carried out by the ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on1, 8, 13, 22 and 29 November 2024. A joint site inspection with the ER, the Contractor and the IEC was carried out on 13 November 2024
- 5.1.2 During the site inspections in the reporting period, no non-conformance was identified. Key observations and reminders during the site inspections are described in **Table 5.1**.

Inspection Date	Key Observations/ Reminders	Follow-up Action
1 November 2024	No major environmental deficiency was observed.	N/A
8 November 2024	Portion 3 1. Rock breaking process should take measures to minimize dust dispersion	Water has been sprayed. (Closed on 11 November 2024)
13 November 2024	No major environmental deficiency was observed.	N/A
22 November 2024	No major environmental deficiency was observed.	N/A
29 November 2024	 Work area at Sheung Fung Street 1. The chemicals materials at site should be labelled and equipped with trip tray to avoid land contamination 2. The noise barrier should be covering the whole construction area to reduce noise generated from noisy works 	Removed. (Closed on 29 November 2024) Covered with noise barrier. (Closed on 29 November 2024)

Table 5.1 Summary of Site Inspection Observations and Recommendations

5.1.3 According to the EIA Report, EP and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. A summary of the Project Implementation Schedule is provided in **Appendix D.**



6. ENVIRONMENTAL NON-COMPLIANCE

6.1 Summary of Exceedance

- 6.1.1 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 6.1.2 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 6.1.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action/ Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix C** would be carried out.

6.2 Summary of Environmental Non-Compliance

6.2.1 No environmental non-compliance was recorded in the reporting period.

6.3 Summary of Environmental Complaint

6.3.1 No environmental complaint was received in the reporting period. The Cumulative Complaint Log is presented in **Appendix K**.

6.4 Summary of Environmental Summon and Successful Prosecution

6.4.1 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution is presented in **Appendix K**.



7. FUTURE KEY ISSUE

7.1 Construction Works and Potential Environmental Issues in the next Reporting Period

- 7.1.1 The construction programme for the Project for the next reporting period is presented in **Appendix A**.
- 7.1.2 Works to be undertaken in the next two months are summarized below:

Portion 1 & 3:

- Prepare for Mined Tunnel Work Force and Machines
- Within shaft, install and remove some strutting
- Substation Construction
- PAB Excavation & Tie Back Installation
- C/C Tunnel construction
- Steel work for raking strut
- Pump house E&M provision
- Tunnel Pre-support

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works
- 7.1.3 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust impact, noise impact, water quality impact, waste management and landscape and visual.

7.2 **Recommendation**

7.2.1 The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction activities will include:



Dust

- Regular watering to reduce dust emissions from the exposed site surface;
- Stockpile of dusty materials shall be covered entirely by impervious sheeting;
- Provide vehicles washing facilities at all site exits to wash away any dusty materials from vehicle body;
- NRMM Labels should be displayed on the applicable equipment on site by the Contractor;
- All vehicle and plant should be cleaned before they leave a construction site.

<u>Noise</u>

- Only well-maintained plant should be operated on-site, and plant should be maintained regularly during the construction programme;
- Quality Powered Mechanical Equipment (QPME) should be adopted as far as possible.

Water Quality

- No effluent discharge would be allowed before the effluent discharge license is acquired.
- Surface run-off from construction sites should be discharged into dedicated discharge point via adequately designed sand/ silt removal facilities;
- Channels/ earth bunds/ sandbags barriers should be provided on site to properly direct stormwater to silt removal facilities;
- Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly;
- Open stockpiles of construction materials on sites should be covered with tarpaulin or similar fabric during rainstorms;
- Perimeter channels should be provided on site boundaries where necessary to intercept stormwater run-off from outside the site so that it will not wash across the site;
- Bare slope should be covered completely by using canvas to reduce muddy surface runoff during typhoons and rainstorms.

Waste Management

- Provision of sufficient waste disposal points and regular collection of waste;
- Regular cleaning and maintenance programme for drainage system;



- Chemical containers shall be stored with drip tray underneath;
- Storage, handling, transport, and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and collected by a licensed chemical waste collector.

Ecology

- Minimize loss of habitats and associated wildlife;
- Using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.

Landscape and Visual

• Adequate tree protection measures shall be provided for the trees to be retained on site.



8. CONCLUSION, COMMENTS AND RECOMMENDATION

8.1 Conclusion

- 8.1.1 This is the 20th Monthly EM&A Report presenting the EM&A works during the reporting period from 1 November 2024 to 30 November 2024 in accordance with the EM&A Manual.
- 8.1.2 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 8.1.3 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 8.1.4 Environmental site inspections were conducted on 1, 8, 13, 22 and 29 November 2024 by the ET in the reporting period.
- 8.1.5 No environmental complaint was received in the reporting period.
- 8.1.6 No notification of summons and prosecution was received in the reporting period.
- 8.1.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 8.1.8 No change to the EM&A programme was made in this reporting period.

8.2 Comments and Recommendations

- 8.2.1 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.
- 8.2.2 The ET had no recommendation following the completion of EM&A in the reporting period.



Figures



Figure 1.1 Project Layout Plan

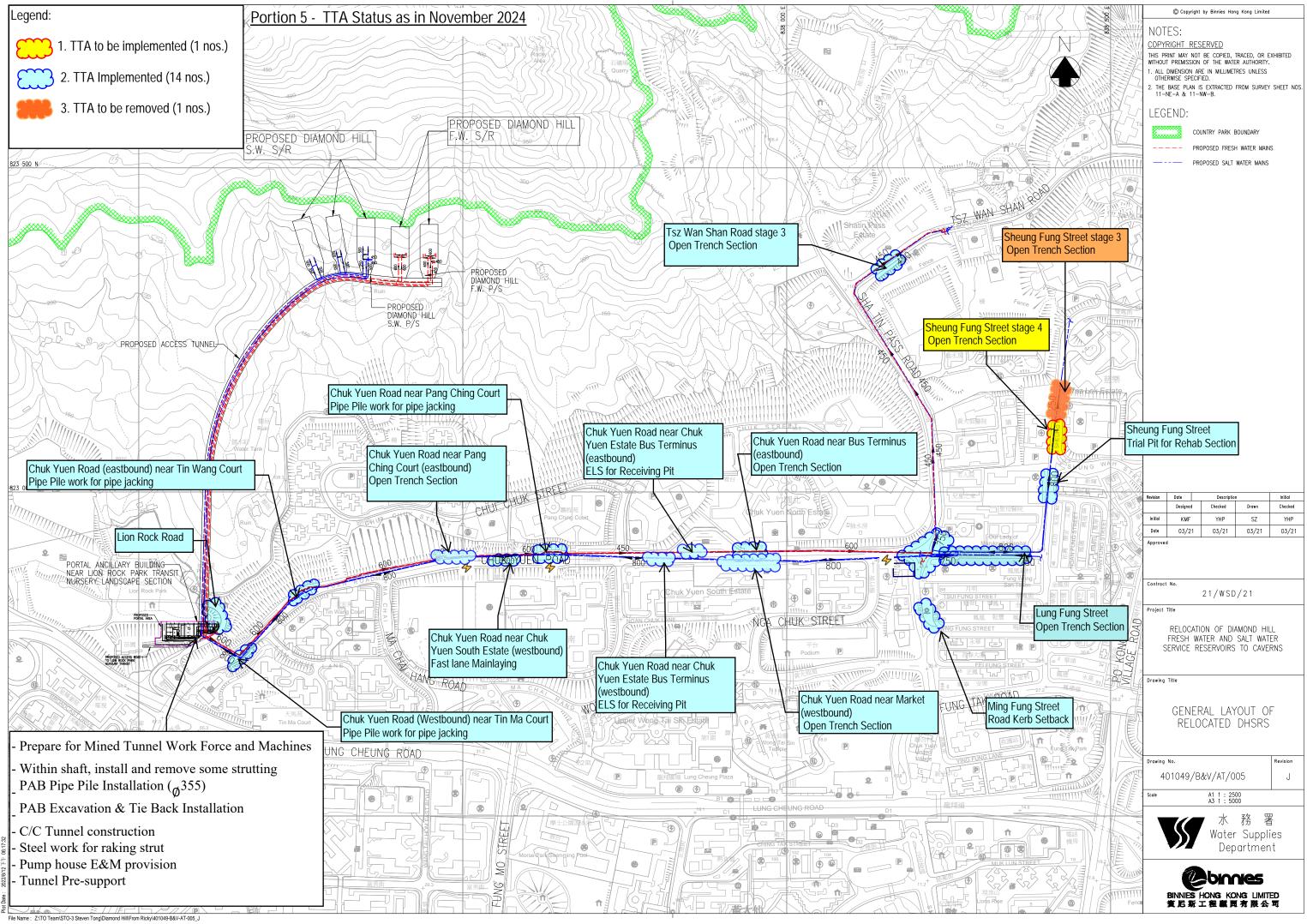




Figure 2.1 Air Quality Monitoring Stations

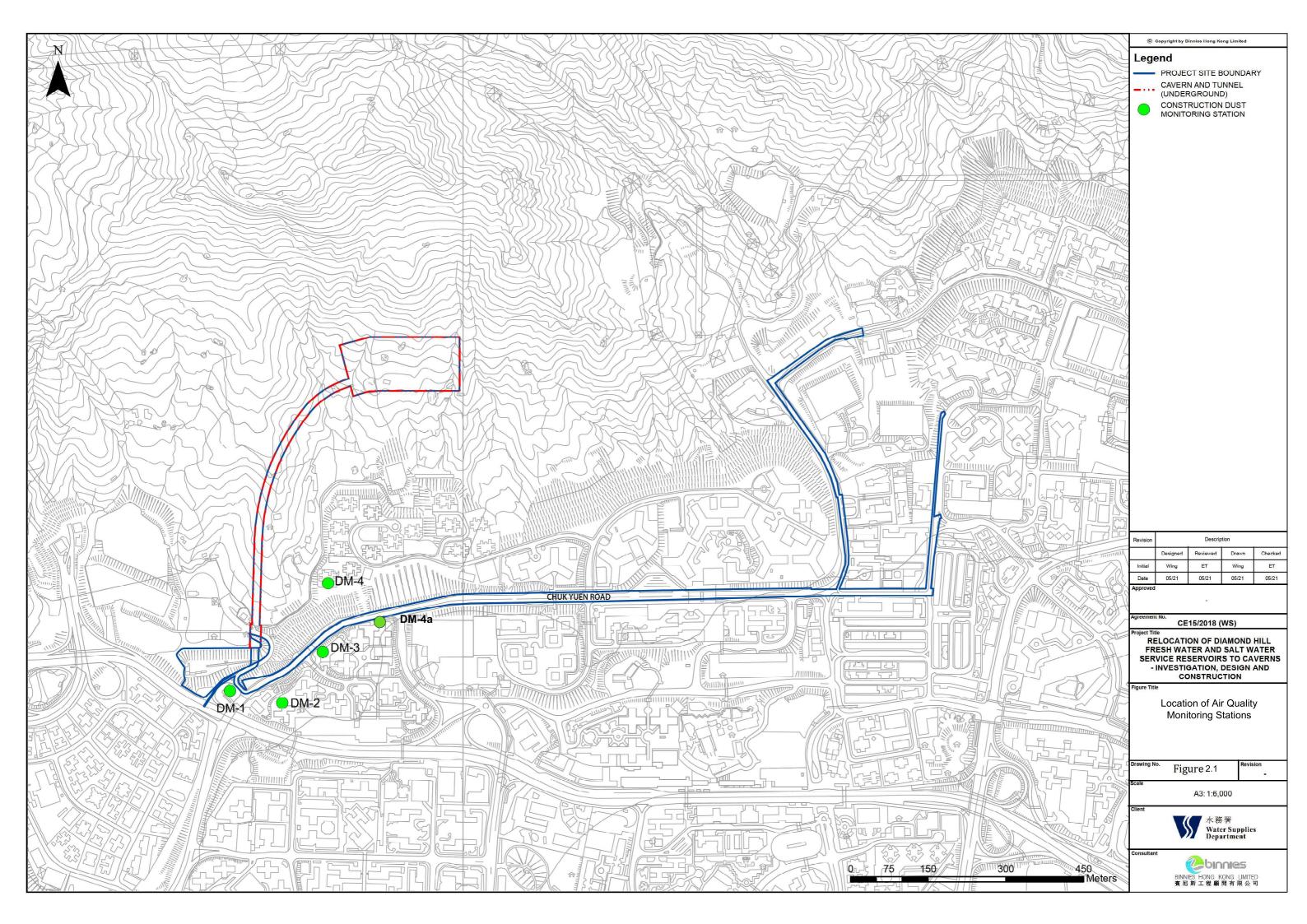
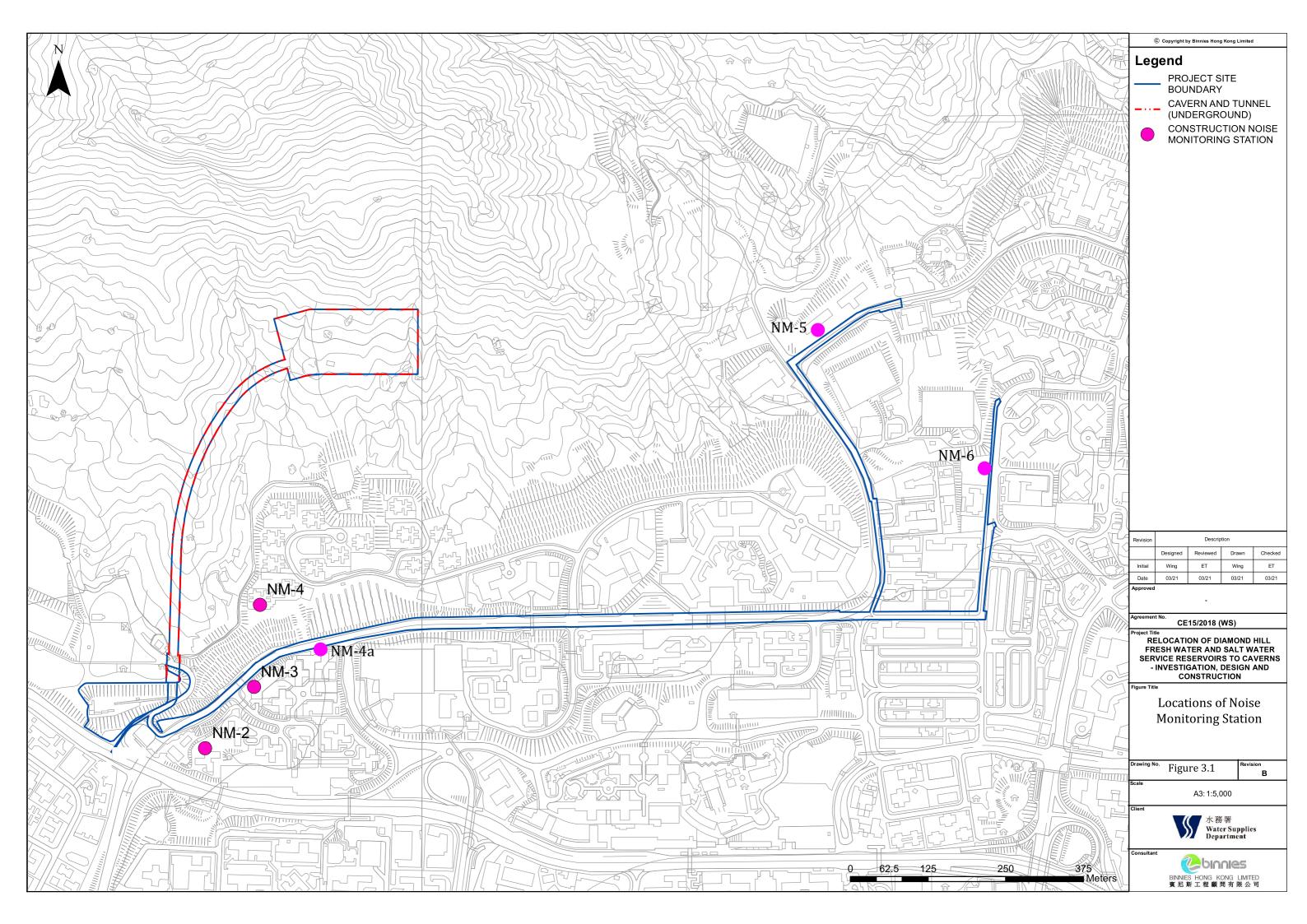




Figure 3.1 Construction Noise Monitoring Stations





Appendix A

Master Construction Programme for the Project

	sk Name	L	Duration	Start	Finish	Total Slack		
1 Rel	location of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Cav	28%	1958 days	Mon 13/12/21	Tue 4/7/28	0.2 days	Qtr 4 Qtr 1 Qtr 2 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 4 Qtr 1 Qtr 4 Qtr 4 <th< td=""><td>Qtr 2 Qtr 3</td></th<>	Qtr 2 Qtr 3
2	Contract Date	0%	1384 days	Tue 29/11/22	Sun 18/7/27	-76.9 days		
3 CD-1000	Contract Date (CD)				Tue 29/11/22	0 days	♦ 29/11	
4 CD-1010	Starting date (SD, within 2weeks from the CD)			Fri 9/12/22	Fri 9/12/22	0 days	♦ 9/12	
5	Contract Completion Date		•	Mon 12/4/27	Thu 15/4/27	-0.1 days		. 12/4
6 KD-1000 7 CE-019	Completion date for the whole of the works (1585d) Delay of Work Due to Inclement Weather in May 2023	0% 0%		Mon 12/4/27 Tue 13/4/27	Mon 12/4/27 Thu 15/4/27	0 days -0.1 days		♦ 12/4
8 KD-1100	Completion date for the whole of the works after CE Implementation	0%		Thu 15/4/27	Thu 15/4/27	-0.1 days		♦ 15/4
9 KD-1100	Anticipated Completion Date			Sun 18/7/27	Sun 18/7/27	-79.8 days		♦ 15/4 ♦ 18/7
10 KD-2100	Planned Completion date for the whole of the works (1585d)			Sun 18/7/27	Sun 18/7/27	-97 days		♦ 18/7
11	Access Date			Fri 9/12/22	Tue 7/3/23	0 days		•
	Sub-letting / Procurement			Mon 13/12/21		820.6 days	s · · · · · · · · · · · · · · · · · · ·	
18	Works Sub-letting			Mon 13/12/21		820.6 days	s	
19 21.SUB.G.100	Subletting for Initial Survey Works (WO001)	100%	26 days	Tue 29/11/22	Thu 29/12/22	0 days		
20 21.SUB.G.100	Subletting for Boulder Survey Works (SC049)	100%	7 days	Fri 21/4/23	Fri 28/4/23	0 days		
21 21.SUB.G.100	Subletting for Temporary Supply of Water (WO002)	100%	26 days	Tue 29/11/22	Thu 29/12/22	0 days		
22 21.SUB.G.100	Subletting for Temporary Supply of Electricity (WO003)	100%	26 days	Tue 29/11/22	Thu 29/12/22	0 days		
23 21.SUB.G.100	Subletting for Tree Survey Works (WO004)	100%	40 days	Fri 9/12/22	Mon 30/1/23	0 days		
24 21.SUB.G.100	Subletting for Construction of New Shed and Miscellaneous Works (WO00	100%	42 days	Tue 29/11/22	Wed 18/1/23	0 days		
25 21.SUB.G.100	Subletting for Traffic Consultancy Services Stage 1 (WO006)		34 days	Fri 9/12/22	Thu 19/1/23	0 days		
26 21.SUB.G.100	Subletting for Condition Survey & Pre-Construction Condition Survey (WO			Mon 6/2/23	Tue 25/4/23	0 days		
27 21.SUB.G.100	Subletting for UU Detection Works (SC002)			Fri 9/12/22	Sat 7/1/23	0 days		
28 21.SUB.G.100	Subletting for ICE Consultant - Temp Works for Site Formation for PAB (We				Tue 14/2/23	0 days		
29 21.SUB.G.100	Subletting for ICE Consultant - Portion 4 (WO007)			Fri 9/12/22	Thu 26/1/23	0 days		
30 21.SUB.G.101	Subletting for Design Consultant			Fri 9/12/22	Fri 28/4/23	0 days		
31 21.SUB.G.101	Subletting for ICE Consultant - Civil & Structure (W0019)			Thu 18/5/23	Mon 10/7/23	0 days		
32 21.SUB.G.101	Subletting for Ground Investigation & Monitoring Works for Tunnel (SC00)			Tue 10/10/23	Tue 24/10/23	0 days		
33 21.SUB.G.101	Subletting for Design Services for Pemanent/CSD (SC045a) Subletting for Demolition Works (WO011)			Mon 6/2/23	Mon 24/4/23	0 days		
34 21.SUB.G.101 35 21.SUB.G.101	Subletting for Site Clearance (SC005)			Sat 1/4/23 Fri 31/3/23	Fri 14/4/23 Fri 21/4/23	0 days		
36 21.SUB.G.101	Subletting for Environmental Monitoring Works and Appointment of			Fri 9/12/22	Thu 19/1/23	0 days 0 days		
50 21.500.0.101	Environmental Team (SC001)	10070	34 uuys	111 5/ 12/ 22	110 13/1/23	0 ddys		
37 21.SUB.G.101	Subletting for Drainage and Ducts for Tunneling and Caverns (SC040)	0%	66 days	Wed 11/12/24	Tue 4/3/25	325.2 days	S	
38 21.SUB.G.101	Subletting for Landscape Softworks for Slope Works	0%	63 days	Tue 7/1/25	Mon 24/3/25	562.2 days	S	
39 21.SUB.G.101	Subletting for Pipe Pile Wall for PAB / VAT (SC008)	100%	52 days	Mon 6/2/23	Tue 11/4/23	0 days		
40 21.SUB.G.101	Subletting for ELS Earthworks, Shoring & Tie back for PAB (SC007)	100%	65 days	Mon 4/12/23	Thu 22/2/24	0 days		
41 21.SUB.G.102	Subletting for Earthwork and ELS Works - Open Trench - Package 1 (SC048	100%	102 days	Tue 29/11/22	Sat 1/4/23	0 days		
42 21.SUB.G.102	Subletting for Earthwork and ELS Works - Open Trench and Jacking Pits - Package 2 (SC048b)			Tue 29/8/23	Tue 19/9/23	0 days		
43 21.SUB.G.102	Subletting for Earthwork and ELS Works - Open Trench and Jacking Pits - Package 3 (SC048c)	100%	20 days	Thu 16/11/23	Fri 8/12/23	0 days		
44 21.SUB.G.102	Subletting for Mainlaying (Open Trench) (SC047A)	100%	135 days	Wed 1/3/23	Mon 14/8/23	0 days		
45 21.SUB.G.102	Subletting for Land Survey (SC014)			Tue 28/2/23	Mon 24/4/23	0 days		
46 21.SUB.G.102	Subletting for Traffic Consultancy Services Stage 2 (SC015)	100%	41 days	Thu 9/3/23	Sat 29/4/23	0 days		
47 S-220	Subletting for Site Investigation Works incl. Borehole, Trial Trench, Manhole Survey	100%	51 days	Tue 2/5/23	Mon 3/7/23	0 days		
48 S-200A	Subletting for Consultants ICE, Traffic consultant	100%	133 days	Fri 9/12/22	Wed 24/5/23	0 days		
49 21.SUB.G.102	Subletting for Reinstatement of Existing Road and Paving (SC004A)	100%	21 days	Fri 12/5/23	Tue 6/6/23	0 days		
50 21.SUB.G.102	Subletting for Cathodic Protection of Watermains (SC020)			Mon 29/5/23	Wed 21/6/23	0 days		
51 21.SUB.G.102	Subletting for Temporary Power Supply for Tunnel and Caverns (SC043)			Mon 13/12/21	Mon 10/1/22	0 days		
52 21.SUB.G.102	Subletting for Supply & Installation of E&M System in New Pumping Station (SC011A)			Thu 18/1/24	Thu 25/1/24	0 days		
53 21.SUB.G.103	Subletting for Waterproofing works for C/C Tunnel (SC0xx)			Thu 2/5/24	Mon 27/5/24	-57 days		
54 21.SUB.G.103	Subletting for Base Slab for Cut and Cover Tunnel and Structural Blinding (SC019)	4%	21 days	Tue 30/4/24	Sat 25/5/24	-54 days		
55 21.SUB.G.103	Subletting for Excavation for C/C Tunnel (SC016)	100%	21 days	Fri 25/8/23	Mon 18/9/23	0 days		
56 21.SUB.G.103	Subletting for Construction of Capping Beam for C/C Tunnel (SC016A)			Fri 25/8/23	Mon 18/9/23	0 days		
57 21.SUB.G.103	Subletting for Remedial Works for Boulder (SC017)			Wed 24/1/24	Wed 31/1/24	0 days		
58 21.SUB.G.103	Subletting for Pipe Jacking with Pipe Laying at Portion 5 (Package 1) (SCO4)			Wed 10/4/24	Sat 4/5/24	84.4 days		
59 21.SUB.G.103	Subletting for Timber Platform for Constuction of 355 DIA Pipe Pile (SC054			Thu 20/7/23	Wed 26/7/23	0 days		
60 21.SUB.G.103	Subletting for Provision of Tunnel Data Management System (TDMS)	100%	21 days	Sat 8/7/23	Tue 1/8/23	0 days		
61 21.SUB.G.103	Subletting for Supply and Installation of 273mm dia. Pipe pile wall for PAB and VAT (SC060)	100%	22 days	Wed 18/10/23	Mon 13/11/23	0 days		
62 21.SUB.G.103	Subletting for Design, Supply and Maintainance of the Tunnel Temporary Ventilation Fans (SC061)	100%	7 days	Mon 18/12/23	Wed 27/12/23	0 days		
63 21.SUB.G.104	Subletting for Supply and Installation of 355mm dia. Pipe pile wall for PAB and VAT (SC065)	100%	21 days	Wed 29/11/23	Sat 23/12/23	0 days		
64 21.SUB.G.104	Subletting for Supply and installation of 355mm dia. Pipe Pile for Jacking Pit (WO041)	100%	21 days	Wed 29/11/23	Fri 22/12/23	0 days		
65 21.SUB.G.104	Subletting for RC work for Transformer Room (SC067a)	0%	21 days	Tue 7/5/24	Fri 31/5/24	1219.2 d		
66 21.SUB.G.104	Subletting for RC work for Pump House (SC067b)	100%	7 days	Thu 18/1/24	Thu 25/1/24	0 days		
				· · · · · · · · · · · · · · · · · · ·	· · ·			
Project: 21/WSD/21	Task Summ	,	Г	1	Inactive Milestone	<u>ه</u>	Duration-only Start-only E External Milestone Critical Split	
					Inactive Cummons		Manual Summary Rollup Finish-only Deadline Progress	
Revised Programme (Apr 20 Date: 1 May 2024		ct Summary ive Task	l	I	Inactive Summary Manual Task		Manual Summary External Tasks Critical Manual Progress	

	tivity ID T	ask Name	%	Duration	Start	Finish	Total Slack	sk 2002 2004 2005 2006 2007
			Complete	E	Start	THISH	TOTAL SIDEK	CK 2023 2024 2025 2026 2027 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 1 Qtr 2 Qtr 3
67 21	.SUB.G.104	Subletting for Tunnel Works (Package 1a) for Modification of CnC ELS to	100%	5 days	Thu 21/12/23	Thu 28/12/23	0 days	
60 21	.SUB.G.104	Provide Noise Enclosure - Design (SC024a1) Subletting for Tunnel Works (Package 1a) for Modification of CnC ELS to	0%	21 days	Fri 3/5/24	Tue 28/5/24	1222.2	
00 21	.508.0.104	Provide Noise Enclosure - Supply and Construct (SC024a2)	078	21 uays	111 3/ 3/ 24	102 20/ 5/ 24	days	
69 21	.SUB.G.104	Subletting for Tunnel Works (Package 1b) for Pre-Support Works prior to	4%	21 days	Tue 30/4/24	Sat 25/5/24	1231.4	
		Mined Tunnel Excavation(SC024b)					days	
70 21	.SUB.G.104	Subletting for Tunnel Works (Package 2) for Ch024 to Ch645 and Caverns (SC025)	0%	21 days	Fri 17/5/24	Tue 11/6/24	66 days	
71 21	.SUB.G.104	Subletting for E&M for PAB, Tunnel and Caverns (Other than Pumpset) (S	C 0%	21 days	Thu 11/7/24	Sat 3/8/24	672 days	s
	.SUB.G.105	Subletting for E&M for Tunnel and Caverns (Pumping System) (SC032)	0%		Thu 11/7/24	Sat 3/8/24	672 days	
	.SUB.G.105	Subletting for RC work for Portal Ancillary Building (SC018)	0%		Sat 1/6/24	Wed 26/6/24	330.2 days	
	.SUB.G.105	Subletting for RC work for Retaining Wall (SC023)	0%		Tue 2/7/24	Thu 25/7/24	351.2 days	
	.SUB.G.105	Subletting for Architectural works for Portal Ancillary Building (SC036)	0%		Wed 10/9/25	Sat 4/10/25	813.4 days	
	.SUB.G.105	Subletting for Waterproofing works for Fresh Water & Salt Water Service			Tue 11/6/24	Fri 5/7/24	1190.4	
/0 21	.500.0.105	Reservoirs (SC030)	0/0	21 0035	100 11/0/24	111 3/ 7/24	days	
77 21	.SUB.G.105	Subletting for Drainage and Ducts for Fresh Water & Salt Water Service	0%	21 days	Tue 11/6/24	Fri 5/7/24	1190.4	
		Reservoirs (SC027)					days	
	.SUB.G.105	Subletting for RC work for Fresh Water & Salt Water Service Reservoirs (S			Tue 11/6/24	Fri 5/7/24	1190.4 d	
	.SUB.G.105	Subletting for E&M work for transformer room (SC043b)			Tue 7/5/24	Fri 31/5/24	1219.2 d	
	.SUB.G.105	Subletting for Instrumentation to MTR Zone (SC033)			Tue 7/5/24	Fri 31/5/24	1219.2 d	
81		Contractor's Design			s Tue 29/11/22	Wed 13/1/27	438 days	
	.DES.PAB.1	Design submission and Approval for Hoarding at PAB			Fri 9/12/22	Thu 27/4/23	0 days	
83 D-		Design submission and Approval for Ground and Vibration Monitoring			Tue 28/3/23	Wed 12/7/23	0 days	
84 D-		Design submission and Approval for Cathodic Protection of Watermains			Mon 21/8/23	Tue 19/9/23	0 days	
85 D-		Design submission and Approval for Architectual Works			Mon 27/5/24	Fri 23/8/24	688.2 days	
86 D-	1040	Design submission and Approval for E&M systems incl. ventilation, lighting,	100%	124 days	Thu 25/5/23	Sat 21/10/23	0 days	
87		electrical, FS for Tunnel Design for Mainlaying Works	34%	374.7 day	s Mon 10/7/23	Tue 8/10/24	1118.4 d	
88		Design for Pipe Jacking Alignment for Drive 1 & 2			Fri 15/3/24	Fri 21/6/24	1209.2 d	
	.DES.WM.1	Prepare and Submit Pipe Jacking Alignment Design for Mainlaying			Fri 15/3/24	Tue 16/4/24	0 days	
		Works to Binnies for Acceptance	100/0	_ + uuy3	5/ 5/ 27		5 00y5	
90 21	.DES.WM.1	Binnies Review Design and Comment on Pipe Jacking Alignment Design	n 66%	18 days	Wed 17/4/24	Wed 8/5/24	1209.4	
		for Mainlaying Works					days	
91 21	.DES.WM.1	Revise and Resubmit the Pipe Jacking Alignment Design for Mainlaying Works	0%	18 days	Thu 9/5/24	Thu 30/5/24	1209.4 days	
92 21	.DES.WM.1	Binnies Review and Accept the Pipe Jacking Alignment Design for	0%	18 days	Thu 30/5/24	Fri 21/6/24	1202.2	
		Mainlaying Works					days	
93					Mon 10/7/23	Fri 25/8/23		
94 21	.DES.WM.2	Prepare and Submit Trench Excavation Design for Mainlaying Works to	0 100%	24 days	Mon 10/7/23	Mon 7/8/23	0 days	
05 24		Binnies for Acceptance	1000/	16 10.00	Mar 7/0/22	5-: 25 /0 /22	0 dava	
95 21	.DES.WM.2	Binnies Review Design and Accept on Trench Excavation Design for Mainlaving Works	100%	16 days	Mon 7/8/23	Fri 25/8/23	0 days	
96		Temporary Work Design for Pit 6	100%	72.8 days	Fri 12/1/24	Fri 12/4/24	0 days	
97 21	.DES.WM.3	Prepare and Submit Temporary Work Design for Pit 6 to Binnies for	100%	24 days	Fri 12/1/24	Fri 9/2/24	0 days	
		Acceptance						
	.DES.WM.3	Binnies Review Design and Comment on Temporary Work Design for P			Fri 9/2/24	Fri 1/3/24	0 days	
	.DES.WM.3	Revise and Resubmit the Temporary Work Design for Pit 6			Fri 1/3/24	Tue 19/3/24	0 days	
	.DES.WM.3	Binnies Review and Accept the Temporary Work Design for Pit 6		-	Mon 18/3/24	Fri 12/4/24	0 days	
101		Temporary Work Design for Pit 2			Tue 2/7/24		124.6 days	
102 21	.DES.WM.4	Prepare and Submit Temporary Work Design for Pit 2 to Binnies for	0%	24 days	Tue 2/7/24	Mon 29/7/24	124.6 days	γs
103 21	.DES.WM.4	Acceptance Binnies Review Design and Comment on Temporary Work Design for P	it 0%	18 days	Tue 30/7/24	Mon 19/8/24	124.6 days	
	.DES.WM.4	Revise and Resubmit the Temporary Work Design for Pit 2	0%		Mon 19/8/24	Mon 9/9/24	124.6 days	
	.DES.WM.4	Binnies Review and Accept the Temporary Work Design for Pit 2	0%		Mon 9/9/24	Wed 2/10/24	124.6 days	
105 21		Temporary Work Design for Pit 3			Mon 3/6/24	Tue 3/9/24	0.6 days	
	.DES.WM.5	Prepare and Submit Temporary Work Design for Pit 3 to Binnies for	0%		Mon 3/6/24	Tue 2/7/24	0.6 days	
		Acceptance			.,.,=.			
108 21	.DES.WM.5	Binnies Review Design and Comment on Temporary Work Design for P	it 0%	18 days	Wed 3/7/24	Tue 23/7/24	0.6 days	S
109 21	.DES.WM.5	Revise and Resubmit the Temporary Work Design for Pit 3	0%	18 days	Wed 24/7/24	Tue 13/8/24	0.6 days	S
110 21	.DES.WM.5	Binnies Review and Accept the Temporary Work Design for Pit 3	0%	18 days	Wed 14/8/24	Tue 3/9/24	0.6 days	S
111		Temporary Work Design for Pit 5	0%	78 days	Mon 8/7/24	Tue 8/10/24	46.6 days	
112 21	.DES.WM.6	Prepare and Submit Temporary Work Design for Pit 5 to Binnies for	0%	24 days	Mon 8/7/24	Sat 3/8/24	46.6 days	/S
112 2-	DECIMINA	Acceptance	i+ 00/	10	Mon 5/0/24	Sat 34 /0 /24	16 C	
	.DES.WM.6	Binnies Review Design and Comment on Temporary Work Design for P			Mon 5/8/24	Sat 24/8/24	46.6 days	
	.DES.WM.6	Revise and Resubmit the Temporary Work Design for Pit 5	0%		Sat 24/8/24	Sat 14/9/24	46.6 days	
	.DES.WM.6	Binnies Review and Accept the Temporary Work Design for Pit 5	0%		Sat 14/9/24	Tue 8/10/24	46.6 days	
116		Temporary Work Design for Pit 7			Thu 28/3/24	Sat 6/7/24	1197.3 d	
117 21	.DES.WM.7	Prepare and Submit Temporary Work Design for Pit 7 to Binnies for Acceptance	100%	∠4 days	Thu 28/3/24	Tue 30/4/24	0 days	
118 21	.DES.WM.7	Binnies Review Design and Comment on Temporary Work Design for P	it 0%	18 days	Tue 30/4/24	Thu 23/5/24	73.3 days	/5
	.DES.WM.7	Revise and Resubmit the Temporary Work Design for Pit 7	0%		Thu 23/5/24	Fri 14/6/24	1190.3 d	
	.DES.WM.7	Binnies Review and Accept the Temporary Work Design for Pit 7	0%		Fri 14/6/24	Sat 6/7/24	1190.3 d	
121		Temporary Work Design for Pit 8	33%	-	Thu 28/3/24	Fri 28/6/24	-19.5 days	
		1						
Project: 21	/WSD/21	Task Sum	-	г	i	Inactive Milestone	\diamond	Duration-only Start-only E External Milestone Critical Split
Revised Pr	ogramme (Apr	2024) Split Proje	ect Summary	у Г	1	Inactive Summary	1	Manual Summary Rollup Finish-only Deadline + Progress
Date: 1 Ma	y 2024	Milestone Inact	tive Task			Manual Task		Manual Summary External Tasks Critical Manual Progress
								Page 2

Dute. I may 2024	Milestone	•	Inactive Task		Manual Task		Manual Summary	External Tasks		Critical	
Date: 1 May 2024											
Revised Programme (Apr 2024)	Split		Project Summary	1	Inactive Summary	1	Manual Summary Rollup	Finish-only	3	Deadline	+
Project: 21/WSD/21	Task		Summary		Inactive Milestone	\diamond	Duration-only	Start-only	E	External Milestone	\diamond

Activity ID Task Nar	me	%	Duration	Start	Finish	Total Slack	2023 2024 2025 2026 2027
		Complete					2023 2024 2025 2026 2027 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 4 Qtr 1 Qtr 4 Qtr 4 Qtr 1 Qtr 4 Qtr 4 Qtr 4 Qtr 1 Qtr 4 Qtr 4
21.DES.WM.8	Prepare and Submit Temporary Work Design for Pit 8 to Binnies for Acceptance	100%	z4 days	Thu 28/3/24	Tue 30/4/24	0 days	
21.DES.WM.8	Binnies Review Design and Comment on Temporary Work Design for Pit	t 0%	18 days	Tue 30/4/24	Thu 23/5/24	-19.5 days	
21.DES.WM.8	Revise and Resubmit the Temporary Work Design for Pit 8	0%	12 days	Thu 23/5/24	Thu 6/6/24	-19.5 days	
21.DES.WM.8	Binnies Review and Accept the Temporary Work Design for Pit 8		-	Thu 6/6/24	Fri 28/6/24	-19.5 days	
	ontractor's Design - Portal Ancillary Building (PAB) and Cut and Cover Tun		-		Mon 11/8/25	867.2 days	
D-S1000	Reprovision of Structures Prepare & Submit Design Works for Reprovision of Structures at PAB			Thu 25/5/23 Thu 25/5/23	Sat 21/10/23 Fri 4/8/23	0 days	
D-S1000	Binnies include LCSD, EMSD and ASD Review and Accept Design for			Mon 18/9/23		0 days 0 days	
5 01020	Reprovision of Structures at PAB	100/0	20 00,5	111011 20/ 5/ 20	001 22/ 20/ 20	e days	
	Temporary Work Design for PAB ELS Works			Mon 8/5/23	Tue 28/5/24	430 days	
21.DES.PAB.1	Prepare and Submit PAB ELS Design to Binnies for Acceptance			Mon 8/5/23	Wed 23/8/23	0 days	
21.DES.PAB.1 21.DES.PAB.1	Binnies Review Design and Comment on PAB ELS Design			Thu 24/8/23	Wed 13/9/23	0 days	
21.DES.PAB.1	Revise and Resubmit the PAB ELS Design Binnies Review and Comment the PAB ELS Design			Thu 14/9/23 Thu 1/2/24	Wed 31/1/24 Wed 20/3/24	0 days 0 days	
21.DES.PAB.1	Revise and Resubmit the PAB ELS Design			Wed 20/3/24	Mon 6/5/24	430 days	
21.DES.PAB.1	Binnies Review and Accept the PAB ELS Design			Tue 7/5/24	Tue 28/5/24	430 days	
	Temporary Work Design for Cut and Cover Tunnel ELS Works		-	Fri 9/12/22	Wed 22/5/24	0 days	
21.DES.PAB.1	Preperation of Cut and Cover Tunnel ELS Works	100%	112 days	Fri 9/12/22	Fri 28/4/23	0 days	
21.DES.PAB.1	ICE Check on Cut and Cover Tunnel ELS Works	100%	56 days	Fri 9/12/22	Fri 17/2/23	0 days	
21.DES.PAB.1	PM Comment on Cut and Cover Tunnel ELS Works			Sat 18/2/23	Fri 17/3/23	0 days	
21.DES.PAB.1	Incorporate PM Comment on Cut and Cover Tunnel ELS Works			Sat 18/3/23	Thu 18/5/23	0 days	
21.DES.PAB.1	Prepare & Submit to GEO & Binnies Cut and Cover Tunnel ELS Works Review & Comments from GEO & Binnies on Cut and Cover Tunnel ELS			Fri 19/5/23	Fri 16/6/23	0 days	
21.DES.PAB.1 21.DES.PAB.1	Prepare & Resubmit to GEO & Binnies on Cut and Cover Tunnel ELS			Sat 17/6/23 Tue 5/9/23	Mon 4/9/23 Wed 27/9/23	0 days 0 days	
	(1st Amendment)	10070	20 0033			0 uuys	
21.DES.PAB.1	Review & Comments from GEO & Binnies on Cut and Cover Tunnel ELS			Thu 28/9/23	Thu 2/11/23	0 days	
21.DES.PAB.1	Revise & Submit to GEO & Binnies Cut and Cover Tunnel ELS Works 2nd Amendment)	100%	17 days	Fri 3/11/23	Wed 22/11/23	0 days	
21.DES.PAB.1	Review & Comments from GEO & Binnies on Cut and Cover Tunnel ELS	100%	4 days	Thu 23/11/23	Mon 27/11/23	0 days	
21.DES.PAB.1	Revise & Submit to GEO & Binnies Cut and Cover Tunnel ELS Works			Tue 28/11/23		0 days	
24 DEC 242 4	(3rd Amendment)						
21.DES.PAB.1	Review & Comments from GEO & Binnies on Cut and Cover Tunnel ELS			Fri 22/12/23	Fri 8/3/24	0 days	
21.DES.PAB.1	Revise & Submit to GEO & Binnies Cut and Cover Tunnel ELS Works (4th Amendment)	100%	40 days	Sat 9/3/24	Mon 29/4/24	0 days	
21.DES.PAB.1	Review & Comments from GEO & Binnies on Cut and Cover Tunnel ELS		-		Wed 22/5/24	-51 days	
	Design for PAB Raft Footing			Tue 1/8/23	Sat 27/4/24	0 days	
21.DES.PAB.1	Prepare and Submit PAB Raft Footing Design to Binnies for Acceptance				Mon 4/12/23	0 days	
21.DES.PAB.1	Binnies Review Design and Comment on PAB Raft Footing Design			Tue 5/12/23	Wed 27/12/23	0 days	
21.DES.PAB.1 21.DES.PAB.1	Revise and Resubmit the PAB Raft Footing Design Binnies Review and Comment the PAB Raft Footing Design			Thu 28/12/23 Fri 23/2/24	Thu 22/2/24 Wed 13/3/24	0 days 0 days	
21.DES.PAB.1 21.DES.PAB.1	Revise and Resubmit the PAB Raft Footing Design			Wed 13/3/24		0 days	
	Design Submission for E&M Works		-	Fri 2/5/25	Mon 11/8/25	271 days	
21.DES.PAB.1	Prepare and Submit for Acceptance			Fri 2/5/25	Fri 30/5/25	271 days	
21.DES.PAB.1	Binnies Review Design and Comment			Mon 2/6/25	Sat 21/6/25	271 days	
21.DES.PAB.1	Revise and Resubmit	0%	24 days	Mon 23/6/25	Mon 21/7/25	271 days	
21.DES.PAB.1	Binnies Review and Accept			Mon 21/7/25	Mon 11/8/25	271 days	
	Design Submission for Fire Engineering Report			Fri 2/5/25	Mon 11/8/25	271 days	
21.DES.PAB.1	Prepare and Submit for Acceptance			Fri 2/5/25	Fri 30/5/25	271 days	
21.DES.PAB.1	Binnies Review Design and Comment			Mon 2/6/25	Sat 21/6/25	271 days	
21.DES.PAB.1 21.DES.PAB.1	Revise and Resubmit Binnies Review and Accept			Mon 23/6/25 Mon 21/7/25	Mon 21/7/25 Mon 11/8/25	271 days 271 days	
	Design Submission for Plumbing		-	Fri 2/5/25	Mon 11/8/25	271 days	
21.DES.PAB.1	Prepare and Submit for Acceptance			Fri 2/5/25	Fri 30/5/25	271 days	
21.DES.PAB.1	Binnies Review Design and Comment			Mon 2/6/25	Sat 21/6/25	271 days	
21.DES.PAB.1	Revise and Resubmit	0%	24 days	Mon 23/6/25	Mon 21/7/25	271 days	
21.DES.PAB.1	Binnies Review and Accept	0%	18 days	Mon 21/7/25	Mon 11/8/25	271 days	
	Design Submission for Ventilation			Fri 2/5/25		867.2 days	
21.DES.PAB.1	Prepare and Submit for Acceptance			Fri 2/5/25	Fri 30/5/25	860.2 days	
21.DES.PAB.1	Binnies Review Design and Comment			Mon 2/6/25	Sat 21/6/25	860.2 days	
21.DES.PAB.1 21.DES.PAB.1	Revise and Resubmit Binnies Review and Accept			Mon 23/6/25 Mon 21/7/25	Mon 21/7/25 Mon 11/8/25	860.2 days 860.2 days	
	ontractor's Design - Tunnel & Cavern Design		-	Tue 2/5/23		258.4 days	
	Construction Impact Assessment Report - Tunnel			Fri 2/6/23	Sat 27/4/24	0 days	
21.DES.TC.10	Prepare and Submit Construction Impact Assessment Report - Tunnel			Fri 2/6/23	Mon 21/8/23	0 days	
21.DES.TC.10	to GEO & Binnies for Acceptance GEO & Binnies Review and Comment on Construction Impact			Tue 22/8/23	Mon 11/9/23	0 days	
21.DES.TC.10	Assessment Report - Tunnel Revise and Resubmit the Construction Impact Assessment Report - Tun	r 100% f	167 7 dove	Tue 12/0/22	Sat 6/4/24	0 days	
21.DES.TC.10	GEO & Binnies Review and Accept the Construction Impact Assessment Report - Tuni				Sat 6/4/24 Sat 27/4/24	0 days 0 days	
	Report - Tunnel			, ., = 1			
	Task Summ	nary	-		Inactive Milestone	\$	Duration-only Start-only E External Milestone I Critical Split
: 21/WSD/21	1						
: 21/WSD/21 d Programme (Apr 2024) May 2024	Split Project	-	F	1	Inactive Summary		Manual Summary Rollup Finish-only Deadline + Progress

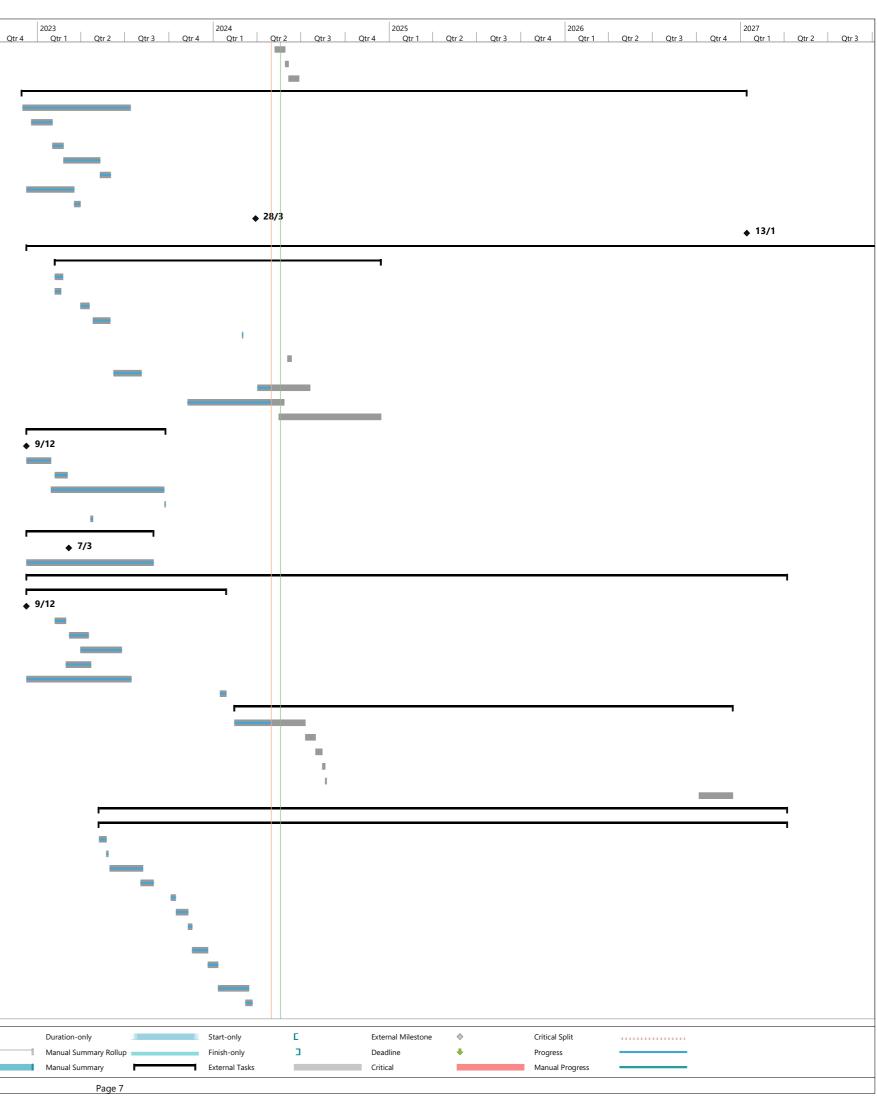
ID Activity ID	Task Name %	Duration Start	Finish	Total Slack	2023 2024 2025 2026 2027
184	Compl			381 days	2023 2024 2025 2026 2027 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 4 Qtr 3 Qtr 4 Qtr 4
184 185 21.DES.TC.10		6 120.8 days Mon 6/11/23	Tue 2/4/24	0 days	
186 21.DES.TC.10	to GEO & Binnies for Acceptance	24 days Wed 3/4/24	Thu 2/5/24	381 days	
	Assessment Report - Caverns	, , ,			
187 21.DES.TC.10	· · · ·	38 days Fri 3/5/24	Tue 18/6/24	381 days	
188 21.DES.TC.10	0% GEO & Binnies Review and Accept the Construction Impact Assessment 0% Report - Caverns	18 days Tue 18/6/24	Wed 10/7/24	381 days	
189	Soft Ground Tunnel (Type 1) Temporary Support and Sequence (CH24 to 1005		Mon 8/4/24	0 days	
190 21.DES.TC.10	.00 Prepare and Submit Soft Ground Tunnel (Type 1) Temporary Support and Sequence to GEO & Binnies for Acceptance 1009	67 days Tue 1/8/23	Thu 19/10/23	0 days	
191 21.DES.TC.10	0. GEO & Binnies Review Design and Comment on Soft Ground Tunnel 100	6 12 days Thu 19/10/23	Fri 3/11/23	0 days	
192 21.DES.TC.10	(Type 1) Temporary Support and Sequence .0! Revise and Resubmit the Soft Ground Tunnel (Type 1) Temporary 1000	6 36 days Fri 10/11/23	Fri 22/12/23	0 days	
	Support and Sequence				
193 21.DES.TC.10	00 GEO & Binnies Review and Comment the Soft Ground Tunnel (Type 1) 1009 Temporary Support and Sequence	6 11 days Fri 22/12/23	Mon 8/1/24	0 days	
194 21.DES.TC.10	0.0 Revise and Resubmit the Soft Ground Tunnel (Type 1) Temporary 1005 Support and Sequence	6 7 days Mon 8/1/24	Tue 16/1/24	0 days	
195 21.DES.TC.10		6 11 days Tue 16/1/24	Mon 29/1/24	0 days	
196 21.DES.TC.10	Temporary Support and Sequence 0 Revise and Resubmit the Soft Ground Tunnel (Type 1) Temporary 100	6 3 days Mon 29/1/24	Thu 1/2/24	0 days	
190 21.013.10.10	Support and Sequence	5 uays Woll 29/1/24	1110 1/2/24	0 days	
197 21.DES.TC.10	.0 GEO & Binnies Review and Comment the Soft Ground Tunnel (Type 1) 1009 Temporary Support and Sequence	6 days Thu 1/2/24	Thu 8/2/24	0 days	
198 21.DES.TC.10	0 Revise and Resubmit the Soft Ground Tunnel (Type 1) Temporary 100	6 21.8 days Thu 8/2/24	Wed 6/3/24	0 days	
199 21.DES.TC.10	Support and Sequence 0 GEO & Binnies Review and Comment the Soft Ground Tunnel (Type 1) 1000	6 24 days Wed 6/3/24	Mon 8/4/24	0 days	
	Temporary Support and Sequence				
200	Soft Ground Tunnel (Type 1) Temporary Support and Sequence (CH75 to 96% CH276 + CH337.15 to CH415.19)	190.7 days Sat 16/9/23	Thu 9/5/24	92.1 days	
201 21.DES.TC.10	0 Prepare and Submit Soft Ground Tunnel (Type 1) Temporary Support 100	6 103.9 days Sat 16/9/23	Mon 22/1/24	0 days	
202 21.DES.TC.10	and Sequence to GEO & Binnies for Acceptance 00 GEO & Binnies Review Design and Comment on Soft Ground Tunnel 1009	6 26 days Mon 22/1/24	Fri 23/2/24	0 days	
	(Type 1) Temporary Support and Sequence	, , ,			
203 21.DES.TC.10	00 Revise and Resubmit the Soft Ground Tunnel (Type 1) Temporary 1009 Support and Sequence	6 36.8 days Fri 23/2/24	Wed 10/4/24	0 days	
204 21.DES.TC.10	0 GEO & Binnies Review and Accept the Soft Ground Tunnel (Type 1) 71% Temporary Support and Sequence	24 days Wed 10/4/24	Thu 9/5/24	92.1 days	
205		6 122.9 days Sat 11/11/23	Fri 12/4/24	0 days	
206 21.DES.TC.10		6 36 days Sat 11/11/23	Sat 23/12/23	0 days	
207 21.DES.TC.10	GEO & Binnies for Acceptance 0: GEO & Binnies Review Design and Comment Soft Ground Tunnel (Type 100)	6 18 days Sat 23/12/23	Wed 17/1/24	0 days	
	1) Permanent Lining				
208 21.DES.TC.10 209 21.DES.TC.10		,	Fri 9/2/24 Wed 6/3/24	0 days 0 days	
	Permanent Lining				
210 21.DES.TC.10 211 21.DES.TC.10		6 10 days Thu 7/3/24 6 18 days Tue 19/3/24	Mon 18/3/24 Fri 12/4/24	0 days	
	Permanent Lining			0 days	
212		84 days Thu 1/8/24	Sat 9/11/24	82.2 days	
213 21.DES.TC.10	00 Prepare and Submit Temporary Blast Door & Blast Curtain Design to GEO & Binnies for Acceptance 0%	24 days Thu 1/8/24	Wed 28/8/24	82.2 days	
214 21.DES.TC.10	0 GEO & Binnies Review Design and Comment on Temporary Blast Door 0%	18 days Wed 28/8/24	Thu 19/9/24	82.2 days	
215 21.DES.TC.10	& Blast Curtain Design 0: Revise and Resubmit the Temporary Blast Door & Blast Curtain Design 0%	24 days Thu 19/9/24	Sat 19/10/24	82.2 days	
216 21.DES.TC.10	0% GEO & Binnies Review and Accept the Temporary Blast Door & Blast 0%	18 days Sat 19/10/24	Sat 9/11/24	82.2 days	
217	Curtain Design Cavern Layout and Tunnel Alignment for 4 Finger Cavern Arrangement - 1009	6 202 days Tue 2/5/23	Tue 2/1/24	0 days	
218 21.DES.TC.10	0. Prepare and Submit Cavern Layout and Tunnel Alignment for 4 Finger 1009	6 37 days Tue 2/5/23	Wed 14/6/23	0 days	
219 21.DES.TC.10	Cavern Arrangement - Draft to GEO & Binnies for Acceptance 0. GEO & Binnies Review Design and Comment on Cavern Layout and 1000	6 34 days Sat 10/6/23	Fri 21/7/23	0 days	
	Tunnel Alignment for 4 Finger Cavern Arrangement - Draft				
220 21.DES.TC.10	0 Revise and Resubmit the Cavern Layout and Tunnel Alignment for 4 100 Finger Cavern Arrangement - Draft	6 72 days Sat 22/7/23	Mon 16/10/23	0 days	
221 21.DES.TC.10	0. GEO & Binnies Review and Accept Cavern Layout and Tunnel Alignment 100	6 17 days Tue 17/10/23	Mon 6/11/23	0 days	
222 21.DES.TC.10	for 4 Finger Cavern Arrangement - Draft .0 Revise and Resubmit the Cavern Layout and Tunnel Alignment for 4 1000	6 19 days Tue 7/11/23	Tue 28/11/23	0 days	
	Finger Cavern Arrangement - Draft				
223 21.DES.TC.10	00 GEO & Binnies Review and Accept Cavern Layout and Tunnel Alignment 1009 for 4 Finger Cavern Arrangement - Draft	27 days Wed 29/11/23	Tue 2/1/24	0 days	
224	Cavern Layout and Tunnel Alignment for 4 Finger Cavern Arrangement - 69%		Fri 12/7/24	-13 days	
225 21.DES.TC.10	00 Prepare and Submit Cavern Layout and Tunnel Alignment for 4 Finger Cavern Arrangement - DDA to GEO & Binnies for Acceptance	6 120.8 days Fri 17/11/23	Mon 15/4/24	0 days	
226 21.DES.TC.10	0. GEO & Binnies Review Design and Comment on Cavern Layout and 54%	24 days Tue 16/4/24	Tue 14/5/24	-13 days	
227 21.DES.TC.10	Tunnel Alignment for 4 Finger Cavern Arrangement - DDA .0: Revise and Resubmit the Cavern Layout and Tunnel Alignment for 4 0%	24 days Thu 16/5/24	Thu 13/6/24	-13 days	
	Finger Cavern Arrangement - DDA				
228 21.DES.TC.10	00 GEO & Binnies Review and Accept the Cavern Layout and Tunnel 0% Alignment for 4 Finger Cavern Arrangement - DDA	24 days Thu 13/6/24	Fri 12/7/24	-13 days	
229		6 190 days Fri 19/5/23	Fri 5/1/24	0 days	
Project: 21/WSD/21	Task Summary		Inactive Milestone	\diamond	Duration-only Start-only E External Milestone I Critical Split
Revised Programme (A Date: 1 May 2024		ary	Inactive Summary	0	Manual Summary Rollup Finish-only Deadline Progress
	Milestone Inactive Task		Manual Task		Manual Summary External Tasks Critical Manual Progress

ID Activity ID Task Na	me		%	Duration	Start	Finish	Total Slack	2022 2024		2025		2026		2027
			Complete					2023 2024 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	Qtr 2 Qtr 3	Qtr 4 Qtr 1	Qtr 2 Qtr 3	Qtr 4 Qtr 1	Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3
230 21.DES.TC.10	Prepare and Submit Tempor GEO & Binnies for Acceptan	ary Rock Support System for Tunnel to ce	100%	91 days	Fri 19/5/23	Tue 5/9/23	0 days							
231 21.DES.TC.10.		n and Comment on Temporary Rock	100%	18 days	Wed 6/9/23	Tue 26/9/23	0 days							
232 21.DES.TC.10		nporary Rock Support System for Tunnel	100%	40 days	Wed 27/9/23	Wed 15/11/23	0 days							
233 21.DES.TC.10		ccept the Temporary Rock Support System	n 100%	41 days	Thu 16/11/23	Fri 5/1/24	0 days							
234	for Tunnel Type T2 Permanent Rock Support Syste	om for Tunnel Type T2	100%	190 days	Fri 19/5/23	Fri 5/1/24	0 days							
235 21.DES.TC.10		ent Rock Support System for Tunnel to			Fri 19/5/23	Tue 8/8/23	0 days							
	GEO & Binnies for Acceptan		10001			T A A A A A A A A A A								
236 21.DES.TC.10	GEO & Binnies Review Desig Support System for Tunnel 1	n and Comment on Permanent Rock ype T2	100%	42 days	Wed 9/8/23	Tue 26/9/23	0 days							
237 21.DES.TC.10		manent Rock Support System for Tunnel	100%	40 days	Wed 27/9/23	Wed 15/11/23	0 days							
238 21.DES.TC.10	GEO & Binnies Review and A for Tunnel Type T2	ccept the Permanent Rock Support Systen	n 100%	41 days	Thu 16/11/23	Fri 5/1/24	0 days							
239	Temporary Rock Support Syste	em for Caverns	0%	96 days	Sat 1/6/24	Tue 24/9/24	80.6 days		P1					
240 21.DES.TC.10		ary Rock Support System for Caverns to	0%	36 days	Sat 1/6/24	Mon 15/7/24	80.6 days							
241 21.DES.TC.10	GEO & Binnies for Acceptan GEO & Binnies Review Desig	ce n and Comment on Temporary Rock	0%	18 davs	Tue 16/7/24	Mon 5/8/24	80.6 days							
	Support System for Caverns													
242 21.DES.TC.10		nporary Rock Support System for Caverns	0%		Tue 6/8/24	Mon 2/9/24	80.6 days							
243 21.DES.TC.10	GEO & Binnies Review and A for Caverns	ccept the Temporary Rock Support System	n 0%	TO DAYS	Mon 2/9/24	Tue 24/9/24	80.6 days							
244	Permanent Rock Support Syst		0%	96 days	Tue 2/7/24		56.6 days			7				
245 21.DES.TC.10	Prepare and Submit Perman GEO & Binnies for Acceptan	ent Rock Support System for Caverns to	0%	36 days	Tue 2/7/24	Mon 12/8/24	56.6 days							
246 21.DES.TC.10		e n and Comment on Permanent Rock	0%	18 days	Tue 13/8/24	Mon 2/9/24	56.6 days		_					
	Support System for Caverns		001	- <u>-</u>	Man 2/0/24									
247 21.DES.TC.10 248 21.DES.TC.10		manent Rock Support System for Caverns ccept the Permanent Rock Support System	0% n 0%		Mon 2/9/24 Wed 2/10/24	Wed 2/10/24 Thu 24/10/24	56.6 days 56.6 days							
	for Caverns									-				
249		em for Junction between Caverns and Tun				Tue 24/9/24	80.6 days							
250 21.DES.TC.10		ary Rock Support System for Junction I to GEO & Binnies for Acceptance	0%	36 days	Sat 1/6/24	Mon 15/7/24	80.6 days							
251 21.DES.TC.10	GEO & Binnies Review Desig	n and Comment on Temporary Rock	0%	18 days	Tue 16/7/24	Mon 5/8/24	80.6 days							
252 21.DES.TC.10		between Caverns and Tunnel nporary Rock Support System for Junction	0%	24 days	Tue 6/8/24	Mon 2/9/24	80.6 days							
	between Caverns and Tunne	1												
253 21.DES.TC.10	GEO & Binnies Review and A for Junction between Caver	ccept the Temporary Rock Support System	n 0%	18 days	Mon 2/9/24	Tue 24/9/24	80.6 days							
254		em for Junction between Caverns and Tur	nr 0%	96 days	Tue 2/7/24	Thu 24/10/24	56.6 days			7				
255 21.DES.TC.10		ent Rock Support System for Junction	0%	36 days	Tue 2/7/24	Mon 12/8/24	56.6 days							
256 21.DES.TC.10		I to GEO & Binnies for Acceptance n and Comment on Permanent Rock	0%	18 days	Tue 13/8/24	Mon 2/9/24	56.6 days							
		between Caverns and Tunnel												
257 21.DES.TC.10	Revise and Resubmit the Per between Caverns and Tunne	manent Rock Support System for Junction	0%	24 days	Mon 2/9/24	Wed 2/10/24	56.6 days							
258 21.DES.TC.10		ccept the Permanent Rock Support System	n 0%	18 days	Wed 2/10/24	Thu 24/10/24	56.6 days							
259	for Junction between Caver Internal Structures - Tunnels	is and Tunnel	0%	140 days	Wed 2/10/24	Thu 20/3/25	311.8 days		-					
260 21.DES.TC.10		Structures - Tunnels to GEO & Binnies for			Wed 2/10/24		311.8 days							
261 21.DES.TC.10	Acceptance	n and Comment on Internal Structures - Tu		24 days	Fri 6/12/24	Tuo 7/1/25	311.8 days			_				
261 21.DES.TC.10	Revise and Resubmit the Int		0%		Tue 7/1/25		311.8 days							
263 21.DES.TC.10		ccept the Internal Structures - Tunnels		,	Thu 20/2/25		311.8 days							
264	Internal Structures - Caverns		0%	140 days	Wed 2/10/24	Thu 20/3/25	255.4 days		r					
265 21.DES.TC.10		Structures - Caverns Design to GEO &	0%	56 days	Wed 2/10/24	Fri 6/12/24	255.4 days		-					
266 21.DES.TC.10	Binnies for Acceptance GEO & Binnies Review Desig	n and Comment on Internal Structures - Ca	av 0%	24 days	Fri 6/12/24	Tue 7/1/25	255.4 days			-				
267 21.DES.TC.104	Revise and Resubmit the Int				Tue 7/1/25		, 255.4 days			_				
268 21.DES.TC.104		ccept the Internal Structures - Caverns			Thu 20/2/25		255.4 days			_				
269	Temporary Ventilation for Tur				Fri 10/11/23	Fri 19/7/24	-19 days	P						
270 21.DES.TC.10	Prepare and Submit Tempor Cavern Construction to Binn	ary Ventilation Design for Tunnel and ies for Acceptance	100%	120.8 days	Fri 10/11/23	Mon 8/4/24	0 days							
271 21.DES.TC.10	Binnies Review Design and C	omment on Temporary Ventilation for	79%	24 days	Tue 9/4/24	Tue 7/5/24	-19 days		•					
272 21.DES.TC.10	Tunnel and Cavern Construct Revise and Resubmit the Ter	tion nporary Ventilation for Tunnel and Cavern	0%	36 davs	Wed 8/5/24	Thu 20/6/24	-19 days							
	Construction													
273 21.DES.TC.10	GEO & Binnies Review and A Tunnel and Cavern Construct	ccept the Temporary Ventilation for tion	0%	24 days	Thu 20/6/24	Fri 19/7/24	-19 days		-					
274	Tunnel Temporary Drainage P		0%	80 days	Sat 1/6/24	Wed 4/9/24	-6.8 days		 -					
275 21.DES.TC.10		Temporary Drainage Plan to GEO & Binnies	5 0%	24 days	Sat 1/6/24	Sat 29/6/24	-6.8 days							
276 21.DES.TC.10	for Acceptance GEO & Binnies Review Desig	n and Comment on Tunnel Temporary	0%	24 days	Tue 2/7/24	Mon 29/7/24	-6.8 days							
	Drainage Plan													
277 21.DES.TC.10 278 21.DES.TC.10		nnel Temporary Drainage Plan .ccept the Tunnel Temporary Drainage Plar	0% 1 0%		Tue 30/7/24 Thu 8/8/24	Wed 7/8/24 Wed 4/9/24	-6.8 days -6.8 days							
210 21.DE3.TC.10		Coope the runner reinpoidry Drainage Plan	U 70	∠4 udys	1110 0/ 0/ 24	WCU 4/9/24	-o.o udys							
				-			_							
Project: 21/WSD/21 Povisod Programme (Apr 2024)	Task	Sum				Inactive Milestone	۰ ۱	Duration-only Start-only	с э	External Milestone	 ♦ ♦ 	Critical Split		
Revised Programme (Apr 2024) Date: 1 May 2024	Split Miles		ect Summary ive Task		1	Inactive Summary Manual Task	U	Manual Summary Rollup Finish-only Manual Summary External Tasks		Deadline	·	Progress Manual Progress		
	Miles	→ Illact	idak			manadi rask		External lasks		Child		manaarriogress	-	

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D Activity ID Task Na		% Complete	Duration Start	Finish	Total Slack	2023 2024 2025 2026 2027 Qtr 4 Qtr 1 Qtr 2 Qtr 3
	Contractor's Blasting Assessment Report (CBAR) - VAT Tunnel (Before			Tue 24/9/24	109 days	$\frac{\sqrt{1}}{\sqrt{1}} = \frac{\sqrt{1}}{\sqrt{1}} = \frac{\sqrt{1}}{\sqrt{1}$
280 21.CBA.VAT.1	MTR Vicinity) Vol.1 Preperation of CBAR - Vol.1	100%	182 days Fri 5/5/23	Sat 9/12/23	0 days	
281 21.CBA.VAT.1	PM Comment on CBAR - Vol.1		120.8 days Mon 11/12/23		0 days	
282 21.CBA.VAT.1	Incorporate PM Comment on CBAR - Vol.1	0%	24 days Fri 10/5/24	Fri 7/6/24	0 days	
283 21.CBA.VAT.1	ICE Check on CBAR - Vol.1	0%	17 days Fri 7/6/24	Fri 28/6/24	9.6 days	
284 21.CBA.VAT.1	Prepare & Submit to GEO & Binnies CBAR - Vol.1	0%	18 days Fri 28/6/24	Sat 20/7/24	9.6 days	
285 21.CBA.VAT.1	Review & Comments from GEO & Binnies on CBAR - Vol.1	0%	24 days Sat 20/7/24	Tue 13/8/24	11.6 days	
286 21.CBA.VAT.1	Revise & Final Submission to GEO & Binnies CBAR - Vol.1	0%	17 days Tue 13/8/24	Sat 31/8/24	109.4 days	
287 21.CBA.VAT.1	Review & Approval from GEO & Binnies on CBAR - Vol.1		24 days Sat 31/8/24	Tue 24/9/24	134.4 days	
288	Contractor's Blasting Assessment Report (CBAR) - VAT Tunnel & Caverns (From MTR Vicinity) Vol.2		182 days Tue 13/8/24	Thu 20/3/25	10.2 days	
289 21.CBA.VAT.1	Preperation of CBAR - Vol.2	0%	48 days Tue 13/8/24	Wed 9/10/24	11.4 days	
290 21.CBA.VAT.1	ICE Check on CBAR - Vol.2	0%	24 days Wed 9/10/24	Thu 7/11/24	11.4 days	
291 21.CBA.VAT.1	PM Comment on CBAR - Vol.2	0%	24 days Thu 7/11/24	Wed 4/12/24	11.4 days	
292 21.CBA.VAT.1	Incorporate PM Comment on CBAR - Vol.2	0%	9 days Wed 4/12/24	Sat 14/12/24	11.4 days	
293 21.CBA.VAT.1	Prepare & Submit to GEO & Binnies CBAR - Vol.2	0%	12 days Sat 14/12/24	Tue 31/12/24	11.4 days	
294 21.CBA.VAT.1	Review & Comments from GEO & Binnies on CBAR - Vol.2	0%	28 days Tue 31/12/24	Tue 28/1/25	14.4 days	
295 21.CBA.VAT.1	Revise & Final Submission to GEO & Binnies CBAR - Vol.2	0%	18 days Tue 28/1/25	Thu 20/2/25	10.2 days	
296 21.CBA.VAT.1	Review & Approval from GEO & Binnies on CBAR - Vol.2		28 days Thu 20/2/25	Thu 20/3/25	12.2 days	
297	Blasting Method Statement (BMS) - VAT Tunnel (Before MTR Vicinity) Vo			Wed 15/1/25	62.6 days	
298 21.BMS.VAT.:	Prepare & Submit to GEO & Binnies BMS Vol.1		151.8 days Wed 7/2/24	Mon 12/8/24	1.6 days	
299 21.BMS.VAT.:	GEO & Binnies Review & Comment on BMS Vol.1	0%	18 days Mon 12/8/24	Sat 31/8/24	1.6 days	
300 21.BMS.VAT.: 301 21.BMS.VAT.:	Incorporate GEO & Binnies comments & Submit BMS Vol.1 Review & Comments from GEO & Binnies on BMS Vol.1		11 days Sat 31/8/24 28 days Fri 13/9/24	Fri 13/9/24 Fri 11/10/24	1.6 days 2.6 days	
302 21.BMS.VAT.:	Revise & Final Submission to GEO & Binnies BMS Vol.1	0%	11 days Sat 12/10/24	Thu 24/10/24	1 day	
302 21.BMS.VAT.:	Review & Acceptance from GEO & Binnies on BMS Vol.1	0%	28 days Fri 25/10/24	Thu 21/11/24	1 day	
304 21.BMS.VAT.:	Blasting Permit Application - VAT Tunnel (Before MTR Vicinity)	0%	11 days Fri 22/11/24	Wed 4/12/24	59.6 days	
305 21.BMS.VAT.:	Comments from GEO on Blasting Permit Application - VAT Tunnel	0%	28 days Thu 5/12/24	Wed 1/1/25	75.8 days	
	(Before MTR Vicinity)					
306 21.BMS.VAT.:	Site Inspection by GEO - VAT Tunnel (Before MTR Vicinity)	0%	7 days Thu 2/1/25	Wed 8/1/25	75.8 days	
307 21.BMS.VAT.:	Issue of Blasting Permit - VAT Tunnel (Before MTR Vicinity)	0%	7 days Thu 9/1/25	Wed 15/1/25	75.8 days	
308	Blasting Method Statement (BMS) - VAT Tunnel & Caverns (From MTR Vicinity) Vol.2		149.6 days Fri 22/11/24	Tue 27/5/25	-12 days	
309 21.BMS.VAT.:	Prepare & Submit to GEO & Binnies BMS Vol.2	0%	24 days Fri 22/11/24	Thu 19/12/24	1 day	
310 21.BMS.VAT.:	GEO & Binnies Review & Comment on BMS Vol.2	0%	18 days Fri 20/12/24	Mon 13/1/25	1 day	
311 21.BMS.VAT.:	Incorporate GEO & Binnies comments & Resubmit BMS Vol.2	0%	10 days Tue 14/1/25	Fri 24/1/25	1 day	
312 21.BMS.VAT.:	Review & Comments from GEO & Binnies on BMS Vol.2	0%	28 days Sat 25/1/25	Fri 21/2/25	2 days	
313 21.BMS.VAT.:	Revise & Final Submission to GEO & Binnies BMS Vol.2	0%	8 days Sat 22/2/25	Mon 3/3/25	1 day	
314 21.BMS.VAT.:	Review & Acceptance from GEO & Binnies on BMS Vol.2		28 days Tue 4/3/25	Mon 31/3/25	1 day	
315 21.BMS.VAT.:	Blasting Permit Application - VAT Tunnel & Caverns (From MTR Vicinity)		11 days Tue 1/4/25	Mon 14/4/25	1 day	
316 21.BMS.VAT.:	Comments from GEO on Blasting Permit Application - VAT Tunnel & Caverns (From MTR Vicinity)	0%	28 days Wed 16/4/25	Tue 13/5/25	-56.2 days	
317 21.BMS.VAT.:	Site Inspection by GEO - VAT Tunnel & Caverns (From MTR Vicinity)		7 days Wed 14/5/25	Tue 20/5/25	-56.2 days	
318 21.BMS.VAT.:	Issue of Blasting Permit - VAT Tunnel & Caverns (From MTR Vicinity)	0%	7 days Wed 21/5/25	Tue 27/5/25	-56.2 days	
319	Design of DfMA		84 days Sat 1/6/24		445.6 days	
320 21.DES.DMA.	Prepare and Submit DfMA Design for Acceptance		24 days Sat 1/6/24	Sat 29/6/24	445.6 days	
321 21.DES.DMA.	GEO & Binnies Review Design and Comment on DfMA Design	0%	18 days Tue 2/7/24		445.6 days	
322 21.DES.DMA.	Revise and Resubmit the DfMA Design		24 days Tue 23/7/24	Mon 19/8/24	445.6 days	
323 21.DES.DMA. 324 Cc	GEO & Binnies Review and Accept the DfMA Design onstruction Waste Disposal Billing Account Application	0%	18 days Mon 19/8/24 41 days Fri 9/12/22	Mon 9/9/24 Tue 31/1/23	445.6 days 0 days	
325 21.ENV.G.100	Approval of Billing Account for Disposal of Construction Waste by EPD		21 days Sat 10/12/22	Fri 30/12/22	0 days	
326 21.ENV.G.100	Obtain Approval Letter from EPD for Billing Account for Disposal of		32 days Sat 31/12/22	Tue 31/1/23	0 days	
	Construction Waste				,.	
327 21.ENV.G.100	Submit Application to EPD for Billing Account for Disposal of Construction	100%	1 day Fri 9/12/22	Fri 9/12/22	0 days	
328 He	Waste ealth and Safety Submissions	100%	50 days Tue 29/11/22	Tue 31/1/23	0 days	
329 21.HS.G.1000	Prepare and Submit 3 Copies of Draft Safety Plan to The Supervisor		12 days Tue 29/11/22	Mon 12/12/22	0 days	
	Prepare and Submit 6 Copies of Safety Plan to The Supervisor		39 days Mon 12/12/22		0 days	
	Submit SO's and SS's Particulars to PM for Acceptance		13 days Mon 5/12/22	Mon 19/12/22	0 days	
332 21.HS.G.1001	Review and Comment of Safety Plan by The Supervisor		10 days Mon 12/12/22		0 days	
333 21.HS.G.1002	Hold Adhoc Meeting with The Supervisor to discuss the Draft Safety Plan	100%	1 day Thu 22/12/22	Thu 22/12/22	0 days	
334 BI	IM Submissions	90%	467.8 days Tue 29/11/22	Thu 27/6/24	446 days	
335 21.BIM.10030	Propose and establish BIM team	100%	60 days Tue 29/11/22	Sat 11/2/23	0 days	
336 21.BIM.1004(Prepare and submit the construction stage BIM Execution Plan for PM's	100%	30 days Fri 3/3/23	Tue 11/4/23	0 days	
337 21.BIM.1005(acceptance Review and comment on BIM Execution Plan by PM	100%	41 days Wed 12/4/23	Wed 31/5/23	0 days	
337 21.BIM.1005(338 21.BIM.1006(Revise and Re-submit BIM Execution Plan for acceptance		120 days Thu 1/6/23	Tue 24/10/23	0 days	
339 21.BIM.10065	Review and Acceptance on BIM Execution Plan by PM		38 days Wed 25/10/23		0 days	
340 21.BIM.10000	Submit CDE back-up proposal to PM for acceptance		120.8 days Fri 8/12/23	Tue 7/5/24	446 days	
	· · · · · · · · · · · · · · · · · · ·					
Project: 21/WSD/21	Task Summ	ary		Inactive Milestone	\$	Duration-only Start-only E External Milestone I Critical Split
	Split Projec	t Summary		Inactive Summary	0	Manual Summary Rollup Finish-only J Deadline + Progress
Revised Programme (Apr 2024) Date: 1 May 2024	Milestone Inactiv	e Task		Manual Task		Manual Summary External Tasks Critical Manual Progress

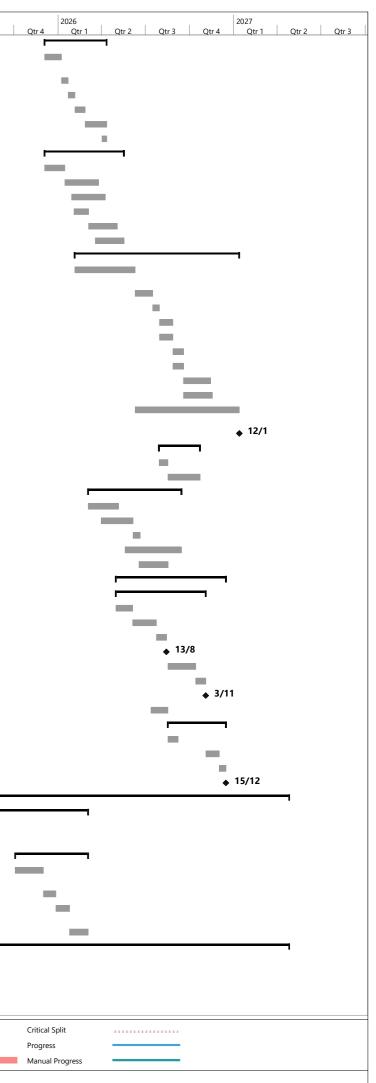
D Activity ID	Task Name		%	Duration	Start	Finish	Total Slack
341 21.BIM.10	10 Review and comment	on CDE back-up proposal by PM	Complete 0%		Wed 8/5/24	Wed 29/5/24	446 days
342 21.BIM.100	20 Prepare and submit fir	al CDE back-up proposal to PM for acceptance	0%	6 days	Wed 29/5/24	Wed 5/6/24	446 days
343 21.BIM.100	25 Review and Acceptance	e on final CDE back-up proposal by PM	0%	18 days	Wed 5/6/24	Thu 27/6/24	446 days
344	BEAM Plus and Environm	ental Management Plan Submissions	99%	1234 days	Tue 29/11/22	Wed 13/1/27	438 days
345 21.BEAM.1	0 Submit BEAM Plus con	sultant's particulars to the PM for acceptance	100%	181 days	Tue 29/11/22	Wed 12/7/23	0 days
346 21.BEAM.1		vironmental Management Plan (EMP) to PM for	100%	33 days	Mon 19/12/22	Tue 31/1/23	0 days
347 21.BEAM.1	acceptance 0 Review of Environmen	tal Management Plan (EMP) by PM	100%	20 days	Wed 1/2/23	Thu 23/2/23	0 days
348 21.BEAM.1		hal EMP to PM for acceptance	100%		Fri 24/2/23	Wed 10/5/23	0 days
349 21.BEAM.1	0 Review & Acceptance	of Environmental Management Plan (EMP) by PM	100%	18 days	Thu 11/5/23	Thu 1/6/23	0 days
350 21.BEAM.1	0 Prepare and submit th	e Method Statement of Baseline Monitoring	100%	80 days	Fri 9/12/22	Fri 17/3/23	0 days
351 21.BEAM.1	0 Review & Acceptance	on the Method Statement of Baseline Monitoring by	100%	10.9 days	Sat 18/3/23	Thu 30/3/23	0 days
352 21.BEAM.1	0 Submit BEAM Plus Pro	visional Assessment	100%	1 day	Wed 27/3/24	Thu 28/3/24	0 days
353 21.BEAM.1	0 Submit BEAM Plus Fina	al Assessment	0%	1 day	Tue 12/1/27	Wed 13/1/27	438 days
354	Site Works		15%	1663 days	Fri 9/12/22	Tue 4/7/28	0.2 days
355	Site Wide Pre-Works			-	Mon 6/2/23	Sat 14/12/24	1060.4 d
356 21.PRW.G.	0 Tree Survey at PAB Are	a	100%	15 days	Mon 6/2/23	Wed 22/2/23	0 days
357 21.PRW.G.	101 /		100%		Mon 6/2/23	Sat 18/2/23	0 days
358 21.PRW.G.			100%		Fri 31/3/23	Tue 18/4/23	0 days
359 21.PRW.G.	,		100%	,	Wed 26/4/23	Wed 31/5/23	0 days
360 21.PRW.G.	0 TTA Implementation fo Rock Road	or the exposed work of dia. 1400mm pipe at Lion	100%	2 days	Fri 1/3/24	Sat 2/3/24	0 days
361 21.PRW.G.		rk of dia. 1400mm pipe at Lion Rock Road	0%	12 days	Mon 3/6/24	Mon 17/6/24	1205.4 d.
362 21.PRW.G.		•••••••	100%		Thu 8/6/23	Fri 4/8/23	0 days
363 21.PRW.G.	,	moval Works	27%		Tue 2/4/24	Sat 20/7/24	1185.4 d
364 21.PRW.G.	0 Additional GI Work		87%	162.5 days	Thu 9/11/23	Mon 27/5/24	1229.7 d
365 21.PRW.G.	0 CLP Transformer Room	Construction	0%	180 days	Thu 16/5/24	Sat 14/12/24	1053.2 d.
366	Relocation of Transit Nu	sey	100%	235 days	Fri 9/12/22	Sat 23/9/23	0 days
367 SW-RTN-10	Access to Portion 4		100%	0 days	Fri 9/12/22	Fri 9/12/22	0 days
868 SW-RTN-10	LC Liase with LCSD for fac	ilities relocation arrangement	100%	51 days	Fri 9/12/22	Sat 28/1/23	0 days
69 SW-RTN-10	60 Relocation of Transit N	ursery and other LCSD's faciltiies to Portion 4	100%	26 days	Mon 6/2/23	Fri 3/3/23	0 days
70 SW-RTN-10	Civil construction work	s, e.g. water supply, in Portion 4	100%	235 days	Sun 29/1/23	Wed 20/9/23	0 days
71 SW-RTN-10	50 Test and Commissionin	ng of water supply and LCSD's facilities	100%	2 days	Fri 22/9/23	Sat 23/9/23	0 days
72 SW-RTN-10	70 Handover Portion 4 to	LCSD for its management	100%	5 days	Fri 21/4/23	Tue 25/4/23	0 days
373	U U	er Service Reservoir (MCHFWSR)	100%	213 days	Fri 9/12/22	Tue 29/8/23	0 days
374 SW-P2-101			100%		Tue 7/3/23	Tue 7/3/23	0 days
375 SW-P2-100		rks arrangement in MCHFWSR	100%	,	Fri 9/12/22	Tue 29/8/23	0 days
376	Portal Ancillary Building				Fri 9/12/22	Wed 7/4/27	4.6 days
377 378 SW-PAB10	Preparation Works & Access to Portion 3	Site Clearance	100% 100%		Fri 9/12/22 Fri 9/12/22	Sat 27/1/24 Fri 9/12/22	0 days 0 days
378 SW-PAB10 379 SW-PAB10		on 3	100%		Mon 6/2/23	Tue 28/2/23	0 days
380 SW-PAB10		detection, Condition survey	100%		Wed 8/3/23	Sun 16/4/23	0 days
381 SW-PAB10			100%		Fri 31/3/23	Sat 24/6/23	0 days
382 SW-PAB10			100%		Wed 1/3/23	Fri 21/4/23	0 days
383 SW-PAB10	0 Hoarding Erection a	nd Site Setup	100%		Fri 9/12/22	Fri 14/7/23	0 days
384 SW-PAB10		affold on slope feature 11NW-B/FR 65	100%		Mon 15/1/24	Sat 27/1/24	0 days
385	Reprovision Works (R	elocate Pumping Station & Pipes)	29%	853.6 days	Wed 14/2/24	Tue 15/12/26	92.6 days
386 21.RW.CO	.1 Construct New Pum	ping Station	52%	120 days	Wed 14/2/24	Wed 10/7/24	127.8 day
387 21.RW.COI	.1 Relocation of Existin	g Drain Pipes and Cable Duct	0%	18 days	Wed 10/7/24	Wed 31/7/24	127.8 day
388 21.RW.COI	.1 Relocate pump & co	ontrol panel	0%	12 days	Wed 31/7/24	Wed 14/8/24	127.8 day
389 21.RW.COI	.1 Testing and Commis	sioning of New Pumping Station	0%	6 days	Wed 14/8/24	Tue 20/8/24	127.8 day
390 21.RW.COI	.1 Demolition of Existi	ng Pumping Station	0%	3 days	Tue 20/8/24	Fri 23/8/24	127.8 day
391 21.RW.COI	.1 Tree compensation		0%	60 days	Tue 6/10/26	Tue 15/12/26	92.6 days
392		ture and Retaining Structure			Mon 8/5/23	Wed 7/4/27	4.6 days
393	Cut & Cover Tunne			-	Mon 8/5/23	Wed 7/4/27	4.6 days
394 SW-PAB-20		ng Platform at +90.0 mPD	100%		Mon 8/5/23	Tue 23/5/23	0 days
395 SW-PAB-90		bilisation of plants	100%		Wed 24/5/23	Sat 27/5/23	0 days
896 SW-PAB-90		le (610 dia)(Total 77 nos.)(PR=1 piles/day/rig)	100%		Wed 31/5/23	Mon 7/8/23	0 days
97 SW-PAB-33		ion for Soil Platform and UU Support at North Side	100%		Thu 3/8/23	Tue 29/8/23	0 days
98 SW-PAB-33		ling/Gate/Concrete Block	100%		Thu 5/10/23	Sat 14/10/23	0 days
99 SW-PAB-33			100%		Mon 16/10/23	Thu 9/11/23	0 days
00 SW-PAB-32	C Soil Excavation to Construction	+89.0mPD (approx. 770m3) and Lagging Wall	100%	7 days	Fri 10/11/23	Fri 17/11/23	0 days
01 SW-PAB-32		: Layer of Strut at +90.0mPD	100%	28 days	Sat 18/11/23	Wed 20/12/23	0 days
402 SW-PAB-32	Soil Excavation fr	om +89.0mPD to +85.0mPD (approx. 2060m3) and	100%	15 days	Thu 21/12/23	Wed 10/1/24	0 days
	Lagging Wall Con		4000		TI 4 - / - / - ·	C + 4 C / C -	<u> </u>
403 SW-PAB-32		d Layer of Strut at +86.0mPD	100%		Thu 11/1/24	Sat 16/3/24	0 days
404 SW-PAB-32	5C Soil Excavation fr Lagging Wall Con	om +85.0mPD to +79.0mPD (approx. 3080m3) and struction	100%	12 days	Fri 8/3/24	Thu 21/3/24	0 days
		Task Summ	ary	-	1	Inactive Milestone	\diamond
Diect: 21////SD/21							-
oject: 21/WSD/21 vised Programme te: 1 May 2024	Apr 2024)	Split Project	t Summary		1	Inactive Summary	



			Duration	Start	Finish	Total Slack	2023		1	2024		I	2025		1	2026			2027	1	1
405 SW-PAB-3260	Installation of 3rd Layer of Strut at +80.75mPD and Portal Frame	Complete 100%	33.9 davs	Fri 22/3/24	Wed 24/4/24	0 days	Qtr 4 Qt	r 1 Qtr 2	Qtr 3 Qtr	4 Qtr 1	Qtr 2	Qtr 3 Q	tr 4 Qtr 1	Qtr 2	Qtr 3	Qtr 4 Qtr 1	Qtr 2	Qtr 3 Q	tr 4 Qtr 1	Qtr 2	Qtr 3
406 SW-PAB-3270	Soil Excavation from +79.0mPD to +75.0mPD (approx. 2052m3) and			Tue 16/4/24	Tue 7/5/24	-7.1 days															
	Lagging Wall Construction																				
407 SW-PAB-3280	Installation of 4th Layer of Strut at +76.25mPD and Portal Frame			Wed 8/5/24	Wed 29/5/24	-99 days															
408 SW-PAB-3290	Soil Excavation from +75.0mPD to +71.1mPD F.E.L. (approx.	0%	11 days	Thu 30/5/24	Sun 9/6/24	-99 days															
409 SW-PAB-3295	1590m3) and Lagging Wall Construction Installation of 5th Layer of Strut at +71.5mPD (northern side only)	0%	11 days	Mon 10/6/24	Thu 20/6/24	-99 days															
410 SW-PAB-3300	Casting of blinding	0%		Fri 21/6/24	Fri 21/6/24	-99 days															
411 SW-PAB-3302	Installation of Waterproof Membrane underneath Base Slab	0%		Sat 22/6/24	Mon 24/6/24	-99 days															
412 SW-PAB-3304	Construction of Base Slab and Wing Slab	0%		Tue 25/6/24	Tue 9/7/24	-99 days															
413 SW-PAB-3305	Construction of Corbels	0%	,	Wed 10/7/24	Fri 12/7/24	-99 days															
414 SW-PAB-3306	Installation of vertical post of supporting frame of Noise Enclosure	0%		Sat 13/7/24	Thu 18/7/24	-99 days															
	and Ventilation Fan onto Base Slab																				
415 SW-PAB-3311	Installation of King Posts and Raking Struts and Bracings	0%	6 days	Fri 19/7/24	Wed 24/7/24	-99 days															
416 SW-PAB-3310	Casting of lean concrete at the northern side of the Base Slab	0%	1 day	Fri 19/7/24	Fri 19/7/24	817.6 days															
417 SW-PAB-3312	Construction of mass concrete at eastern and western side of the	0%	6 days	Thu 25/7/24	Tue 30/7/24	-99 days															
418 SW-PAB-3320	Base Slab Backfilling on Base Slab to +77.0mPD (approx. 4m high)	0%	6 days	Wed 31/7/24	Mon 5/8/24	-99 days															
419 SW-PAB-3340	Installation of Flying Struts	0%		Thu 26/9/24	Fri 4/10/24	637.6 days						· .									
420 SW-PAB-3341	Installation of sheet pile wall at the south of Cut & Cover Tunnel ELS			Thu 25/7/24	Thu 15/8/24	661.2 days															
	to form access road	0,0	20 00,0			00112 0035						-									
421 SW-PAB-3342	Excavation down to +77mPD to form access road	0%	18 days	Thu 26/9/24	Sat 19/10/24	625.6 days															
422 SW-PAB-335C	Cutting of Southern Pipe Pile Walls for Opening	0%	4 days	Sat 19/10/24	Thu 24/10/24	625.6 days						1									
423 SW-PAB-3360	Construction of Noise Enclosure and Installation of Ventilation Fans	0%	72 days	Tue 3/12/24	Mon 3/3/25	630.6 days															
424 SW-PAB-3390	Completely Remove the Compacted Soil down to +73.10mPD	0%	5 days	Fri 19/12/25	Sat 27/12/25	276.6 days															
425 SW-PAB-3400	Construction of Structural Wall	0%		Sat 20/6/26	Sat 15/8/26	134.6 days															
426 SW-PAB-3410	Construction of Roof Slab			Sat 15/8/26	Fri 25/9/26	134.6 days															
427 SW-PAB-3420	Backfilling to +86.0mPD	0%		Mon 28/9/26	Thu 8/10/26	134.6 days															
428 SW-PAB-3430	Removal of 2nd Layer of Struts	0%		Fri 9/10/26		134.6 days												1			
429 SW-PAB-3440	Backfilling to +88.50mPD	0%		Tue 13/10/26		134.6 days															
430 SW-PAB-3450	Removal of 1st Layer of Struts	0%		Sat 24/10/26	Tue 27/10/26	134.6 days												1			
431 SW-PAB-3460	Construction of Internal Wall	0%		Wed 10/3/27	Wed 7/4/27	4.6 days													1		
	Northern Side of PAB			Mon 21/8/23	Wed 25/10/23	0 days															
433 SW-PAB-9060	Site Setup & Mobilisation of Plants			Mon 21/8/23	Wed 23/8/23	0 days			1												
434 SW-PAB-907C	Driving of Pipe Pile (610 DIA) (Total: 53 nos.)(PR=2 piles/day/rig)			Tue 22/8/23	Wed 25/10/23	0 days															
	Western Side of PAB (Zone A)			Sat 9/12/23	Wed 6/8/25	71.2 days				_											
436 SW-PAB-4250	Erection of Timber Platform for Western Pipe Pile			Sat 9/12/23	Fri 22/12/23	0 days															
437 SW-PAB-4260	Site Setup & Mobilisation of Plants			Sat 23/12/23	Sat 30/12/23	0 days															
438 SW-PAB-4270	Driving of Pipe Pile (273 DIA) (Total 36 nos, PR=1pp/day/rig)	100%	20 uays	Tue 2/1/24	Wed 24/1/24	0 days															
420 SW/ DAD 4280	Installation of india amotors	100%	1 E davis	Thu 25 /1 /24	Cat 10/2/24	0 days															
439 SW-PAB-4280	Installation of inclinometers			Thu 25/1/24	Sat 10/2/24	0 days															
440 SW-PAB-4370	Excavation to +87.5mPD and Lagging Wall Construction	100%	20 days	Wed 14/2/24	Thu 7/3/24	0 days				÷.											
440 SW-PAB-4370 441 SW-PAB-4380	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD	100% 57%	20 days 75 days	Wed 14/2/24 Thu 7/3/24	Thu 7/3/24 Sat 8/6/24	0 days 112.8 days				÷.,											
440 SW-PAB-4370 441 SW-PAB-4380 442 SW-PAB-4390	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction	100% 57% 0%	20 days 75 days 15 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24	0 days 112.8 days 112.8 days				2											
440 SW-PAB-437C 441 SW-PAB-438C 442 SW-PAB-439C 443 SW-PAB-440C	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction Installation of 2nd Layer of Tie-back at +85.5mPD	100% 57% 0% 0%	20 days 75 days 15 days 23 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24 Thu 27/6/24	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24	0 days 112.8 days 112.8 days 112.8 days				÷											
440 SW-PAB-437C 441 SW-PAB-438C 442 SW-PAB-439C 443 SW-PAB-440C 444 SW-PAB-441C	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction Installation of 2nd Layer of Tie-back at +85.5mPD Excavation to +81.5mPD and Lagging Wall Construction	100% 57% 0% 0% 0%	20 days 75 days 15 days 23 days 10 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24	0 days 112.8 days 112.8 days 112.8 days 112.8 days				1											
440 SW-PAB-437C 441 SW-PAB-438C 442 SW-PAB-439C 443 SW-PAB-440C 444 SW-PAB-441C 445 SW-PAB-442C	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction Installation of 2nd Layer of Tie-back at +85.5mPD Excavation to +81.5mPD and Lagging Wall Construction Installation of 3rd Tie-back at +82.0mPD	100% 57% 0% 0% 0% 0%	20 days 75 days 15 days 23 days 10 days 15 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24 Thu 22/8/24	0 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days				ĥ											
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440 SW-PAB-437C 441 SW-PAB-438C 442 SW-PAB-439C 443 SW-PAB-440C 444 SW-PAB-441C 445 SW-PAB-442C 446 SW-PAB-443C	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction Installation of 2nd Layer of Tie-back at +85.5mPD Excavation to +81.5mPD and Lagging Wall Construction Installation of 3rd Tie-back at +82.0mPD Excavation to +78.0mPD and Lagging Wall Construction	100% 57% 0% 0% 0% 0% 0%	20 days 75 days 15 days 23 days 10 days 15 days 6 days 10 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24 Thu 22/8/24	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24 Thu 22/8/24 Thu 29/8/24	0 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days						•	_								
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440 SW-PAB-437C 441 SW-PAB-438C 442 SW-PAB-439C 443 SW-PAB-440C 444 SW-PAB-441C 445 SW-PAB-442C 446 SW-PAB-443C 447 SW-PAB-444C 448 SW-PAB-4445 449 SW-PAB-445C	Excavation to +87.5mPD and Lagging Wall Construction Installation of 1st Layer of Tie-back at +88.0mPD Excavation to +85.0mPD and Lagging Wall Construction Installation of 2nd Layer of Tie-back at +85.5mPD Excavation to +81.5mPD and Lagging Wall Construction Installation of 3rd Tie-back at +82.0mPD Excavation to +78.0mPD and Lagging Wall Construction Installation of 4th Layer Tie-back at +78.5mPD Excavation of the remaining soilmass to +78.0mPD with lateral support to faciliate the opening of southern side of Cut & Cover Excavation to +74.5 mPD (FEL) and Lagging Wall Construction	100% 57% 0% 0% 0% 0% 0% 0% 0%	20 days 75 days 15 days 23 days 10 days 15 days 6 days 10 days 55 days 12 days 30 days	Wed 14/2/24 Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24 Thu 22/8/24 Thu 29/8/24 Fri 1/11/24 Fri 30/5/25	Thu 7/3/24 Sat 8/6/24 Thu 27/6/24 Thu 25/7/24 Tue 6/8/24 Thu 22/8/24 Thu 29/8/24 Tue 10/9/24 Tue 7/1/25 Sat 14/6/25	0 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days 112.8 days 71.2 days 71.2 days															
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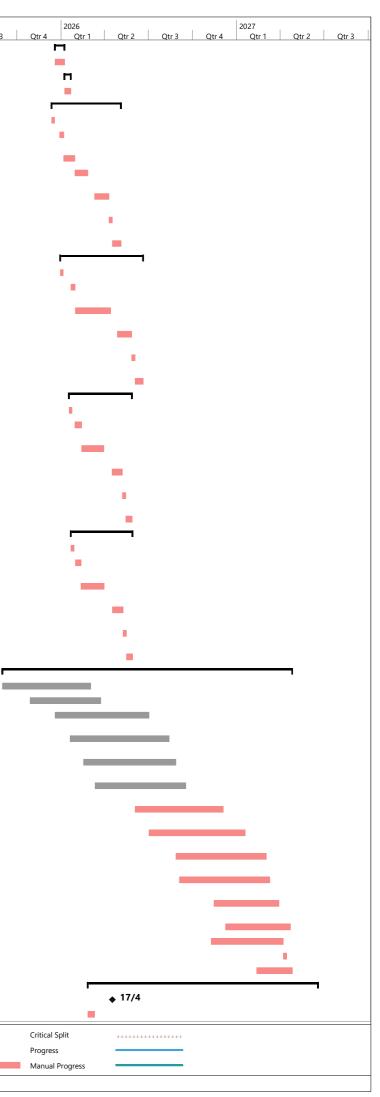
Activity ID Tas	sk Name	%	Duration	Start	Finish	Total Slack	2024 2025 2020 2020
		Complete				c	2024 2025 2026 2027 2 Qtr 3 Qtr 4 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 4 Qtr 1 Qtr 4 Qtr 1 Qtr 4 Qtr 1 Qtr 4 Qtr 4
3 SW-PAB-4394	Site Setup & Mobilisation of Plants			Tue 15/4/25	Tue 22/4/25	81.2 days	
SW-PAB-4395	Driving of Pipe Pile (355 DIA) (Total: 28 nos.)(PR=1 piles/day/rig)			Tue 22/4/25	Mon 26/5/25	81.2 days	
SW-PAB-440C	Soil Excavation to +75.75 mPD and Lagging Wall Construction			Mon 26/5/25	Tue 10/6/25	81.2 days	
SW-PAB-441C	Installation of 7th Layer of Wailing and Strut at +76.25mPD			Tue 10/6/25	Wed 9/7/25	81.2 days	
2 SW-PAB-442C	Soil Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall	0%	15 days	Wed 9/7/25	Fri 25/7/25	81.2 days	
	Construction Southern Side of PAB (Zone C)	-0%	98 days	Tue 7/1/25	Fri 9/5/25	71 2 days	
	Southern Side of PAB (Zone C)			Tue 7/1/25		71.2 days	
	Site Setup & Mobilisation of plants			Tue 7/1/25	Mon 13/1/25	71.2 days	
SW-PAB-4050	Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig)			Mon 13/1/25	Mon 14/4/25	71.2 days	
SW-PAB-406C	Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construct		-	Mon 14/4/25	Fri 9/5/25	71.2 days	
	Structure Works		-	s Fri 9/5/25	Tue 19/5/26	71.2 days	
	Foundation Works		-	Fri 9/5/25	Wed 17/9/25	71.2 days	
SW-PAB-4270	Construction of Raft Footing Slab (Southern) (Zone C)	0%	18 days	Fri 9/5/25	Fri 30/5/25	71.2 days	—
SW-PAB-4280	Construction of Retaining Wall RW1 and RW2	0%	30 days	Fri 30/5/25	Mon 7/7/25	98.2 days	
SW-PAB-4290	Construction of Raft Footing Slab (Western) (Zone A)			Thu 7/8/25	Wed 17/9/25	71.2 days	
SW-PAB-430C	Construction of Raft Footing Slab (Eastern) (Zone B)	0%	30 days	Sat 26/7/25	Fri 29/8/25	81.2 days	
	Building Structure - Grid No. U - BB (Western)	0%	198.4 day	s Thu 18/9/25	Tue 19/5/26	71.2 days	
SW-PAB-S300	Commencement of Building Superstructure	0%	0 days	Tue 23/9/25	Tue 23/9/25	85.4 days	♦ 23/9
SW-PAB-S200	Installation of Tower Crane	0%	5 days	Thu 18/9/25	Tue 23/9/25	71.2 days	
SW-PAB-S301	Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Ca	ap 0%	35 days	Wed 24/9/25	Tue 28/10/25	85.4 days	
	@ +75mPD) incl. scaffold erection						
SW-PAB-S302	RC Column and RC Wall @ above Ground Floor			Wed 29/10/25		85.4 days	
SW-PAB-S303	RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erecti	ion 0%	35 days	Mon 24/11/25	Sun 28/12/25	85.4 days	—
SW-PAB-S304	RC Column and RC Wall @ above First Floor	0%	26 days	Mon 29/12/25	Fri 23/1/26	85.4 days	
SW-PAB-S305	RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection	0%	35 days	Sat 24/1/26	Fri 27/2/26	85.4 days	
SW-PAB-S306	RC Column and RC Wall @ above Roof	0%	14 days	Sat 28/2/26	Fri 13/3/26	85.4 days	
SW-PAB-S308	RC Stairs	0%	21 days	Sat 28/2/26	Fri 20/3/26	145.4 days	
SW-PAB-S307	Roof Canopy @ +95.8mPD incl. scaffold erection	0%	21 days	Sat 14/3/26	Fri 3/4/26	85.4 days	
SW-PAB-S309	Waterproofing works on roof	0%	18 days	Sat 2/5/26	Tue 19/5/26	85.4 days	
	Building Structure - Grid No. BB - EE (Eastern)			s Sat 30/8/25	Tue 19/5/26	71.2 days	
SW-PAB-S400	Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Ca			Sat 30/8/25	Fri 3/10/25	97.4 days	
	@ +75mPD) incl. scaffold erection						
SW-PAB-S401	RC Column and RC Wall @ above Ground Floor	0%	26 days	Sat 4/10/25	Wed 29/10/25	97.4 days	
SW-PAB-S402	RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erecti	ion 0%	35 days	Thu 30/10/25	Wed 3/12/25	97.4 days	
SW-PAB-S403	RC Column and RC Wall @ above First Floor	0%	26 days	Thu 4/12/25	Mon 29/12/25	97.4 days	=
SW-PAB-S404	RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection	0%	35 days	Tue 30/12/25	Mon 2/2/26	97.4 days	
SW-PAB-S405	RC Column and RC Wall @ above Roof	0%	14 days	Tue 3/2/26	Mon 16/2/26	97.4 days	
SW-PAB-S407	RC Stairs	0%	21 days	Tue 3/2/26	Mon 23/2/26	170.4 days	
SW-PAB-S406	Roof Canopy @ +95.8mPD incl. scaffold erection			Thu 12/2/26	Wed 4/3/26	97.4 days	
SW-PAB-S408	Installation of Photovoltaic Panel			Thu 2/4/26	Sun 19/4/26	97.4 days	
SW-PAB-S409	Waterproofing works on roof	0%		Mon 20/4/26	Thu 7/5/26	, 97.4 days	
SW-PAB-S410	Complete RC Structure	0%		Tue 19/5/26	Tue 19/5/26	85.4 days	♦ 19/5
	ABWF/ MEP/ FS/ Fitout Works		-	s Thu 4/12/25		71.2 days	
	For Grid No. U - BB					115.6 days	
	G/F - Transformer Room & LV Switch Room			s Mon 29/12/25		115.6 days	
SW-PAB-A501	TR &LVSR - Falsework Removal/ Preparation for ABWF & MEP W			Mon 29/12/25		142 days	
SW-PAB-A501							
	TR &LVSR - ABWF Deg1 - Deg3			Mon 2/2/26	Wed 11/3/26	142 days	
SW-PAB-A503	TR &LVSR - BS 1st Fix - 3rd Fix			Mon 16/2/26	Wed 25/3/26	142 days	
SW-PAB-A504	TR &LVSR - CLP Inspection and Defect Rectification			Thu 26/3/26	Mon 6/4/26	142 days	
SW-PAB-A505	TR &LVSR - Installation of Transformer and T&C by CLP				Sun 5/7/26	142 days	
SW-PAB-A506	TR &LVSR - Completion of CLP Cable Laying Leading to PAB			Wed 18/2/26	Fri 20/3/26	249.6 days	
SW-PAB-A507	TR &LVSR - Power-on Date		-	Sun 5/7/26	Sun 5/7/26	142 days	♦ 5/7
	1/F - Genset Room			s Sat 28/2/26	Wed 29/7/26	96.6 days	
SW-PAB-A511	Genset Rm - Falsework Removal/ Preparation for ABWF & MEP			Sat 28/2/26	Fri 3/4/26	118 days	
SW-PAB-A512	Genset Rm - Concrete Plinth, Waterproofing & Test	0%	12 days	Sat 4/4/26	Wed 15/4/26	118 days	
SW-PAB-A513	Floor Screeding, Wall Plastering & Doors & Wall Lining	0%	28 days	Thu 16/4/26	Wed 13/5/26	118 days	
	MEP Works	0%	28 days	Thu 14/5/26	Wed 10/6/26	118 days	
SW-PAB-A514		0%	7 days	Thu 11/6/26	Wed 17/6/26	118 days	
	Move-In Generator Equipments		1/ days	Thu 18/6/26	Wed 1/7/26	118 days	
SW-PAB-A515	Move-In Generator Equipments Final Coat to Wall & Sealer to Floor	0%	14 0033		Wed 29/7/26	118 days	
SW-PAB-A515 SW-PAB-A516				Thu 2/7/26			
SW-PAB-A515 SW-PAB-A516	Final Coat to Wall & Sealer to Floor	0%	28 days	Thu 2/7/26 s Mon 29/12/25		147.6 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms	0%	28 days 152.4 days	s Mon 29/12/25	Fri 3/7/26		
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works	0% 0% 1 0%	28 days 152.4 days 42 days	s Mon 29/12/25 Mon 29/12/25	Fri 3/7/26 Sun 8/2/26	235 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3	0% 0% 0% 0%	28 days 152.4 days 42 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26	235 days 235 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A523	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix	0% 0% 0% 0% 0%	28 days 152.4 days 42 days 70 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26	235 days 235 days 235 days	
SW-PAB-A512 SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works	0% 0% 0% 0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26	235 days 235 days 235 days 174 days	—
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3	0% 0% 0% 0% 0% 0%	28 days 152.4 days 70 days 70 days 42 days 42 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26	235 days 235 days 235 days 174 days 174 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - ABWF Deg1 - Deg3 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix	0% 0% 0% 0% 0% 0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days 70 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26 Sat 25/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26 Fri 3/7/26	235 days 235 days 235 days 174 days 174 days 174 days	—
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3	0% 0% 0% 0% 0% 0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days 70 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26 Fri 3/7/26	235 days 235 days 235 days 174 days 174 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix For Grid No. BB - EE	0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days 70 days 70 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26 Sat 25/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26 Fri 3/7/26 Sun 17/5/26	235 days 235 days 235 days 174 days 174 days 174 days	
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A525 SW-PAB-A526	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix For Grid No. BB - EE	0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days 70 days 132.6 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26 Sat 25/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26 Fri 3/7/26	235 days 235 days 235 days 174 days 174 days 174 days	Start-only External Milestone I Critical Split
SW-PAB-A515 SW-PAB-A516 SW-PAB-A517 SW-PAB-A521 SW-PAB-A522 SW-PAB-A522 SW-PAB-A522 SW-PAB-A525 SW-PAB-A526	Final Coat to Wall & Sealer to Floor Install Generator Equipments & Testing Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix For Grid No. BB - EE	0% 0%	28 days 152.4 days 42 days 70 days 70 days 42 days 70 days 132.6 days	s Mon 29/12/25 Mon 29/12/25 Mon 9/2/26 Mon 23/2/26 Sat 28/2/26 Sat 11/4/26 Sat 25/4/26	Fri 3/7/26 Sun 8/2/26 Sun 19/4/26 Sun 3/5/26 Fri 10/4/26 Fri 19/6/26 Fri 3/7/26 Sun 17/5/26	235 days 235 days 235 days 174 days 174 days 174 days	

533 W-PAB-A601 534 SW-PAB-A602 535 SW-PAB-A602 536 SW-PAB-A602 537 SW-PAB-A602 538 SW-PAB-A602 539 SW-PAB-A602 539 SW-PAB-A602 539 SW-PAB-A602 539 SW-PAB-A602 540 M 541 SW-PAB-A602 542 SW-PAB-A612 543 SW-PAB-A612 544 SW-PAB-A615 545 SW-PAB-A612 546 SW-PAB-A612 547 G 548 SW-PAB-A612 549 SW-PAB-E101 550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E106 555 SW-PAB-E106 555 SW-PAB-E106 555 SW-PAB-E102 556 SW-PAB-E102 557 SW-PAB-E102 558 SW-PAB-E102 <	G/F - FS Water Tank & FS Pump Room FS Water Tank & Pump Rm - Falsework Removal/ Preparation for ABWF & MEP Works FS Water Tank & Pump Rm - Waterproofing & Testing FS Water Tank & Pump Rm - Plastering Works Inside Tank FS Water Tank & Pump Rm - Wall and Floor Tiling Works FS Water Tank & Pump Rm - Install Equipment FS Water Tank & Pump Rm - Install Equipment FS Water Tank & Pump Rm - Install Cat Ladder & Hatch Cover Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - ABWF Deg1 - Deg3 G/F - ABWF Deg1 - Deg3 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - BS 1st Fix - 3rd Fix Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building External wall plastering/ painting works External wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road	0% 0% 0% 0% 0%	103.6 days 35 days 14 days 21 days 45 days 10 days 132.6 days 70 days 70 days 30 days 60 days 280 days 100 days 100 days 24 days 24 days 24 days 20 days 45 days	Thu 4/12/25 Thu 4/12/25 Thu 8/1/26 Thu 22/1/26 Thu 22/1/26 Thu 26/2/26 Thu 2/4/26 Thu 2/4/26 Thu 4/12/25 Thu 4/12/25 Thu 15/1/26 Thu 29/1/26 Thu 9/3/26 Thu 19/3/26 Wed 4/2/26 Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Fri 18/0/26	Sat 11/4/26 Wed 7/1/26 Wed 21/1/26 Wed 22/26 Wed 25/2/26 Sat 11/4/26 Sat 11/4/26 Sat 11/4/26 Wed 14/1/26 Wed 25/3/26 Wed 8/4/26 Wed 8/4/26 Wed 4/3/26 Sun 3/5/26 Sun 3/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Fri 18/9/26	184.4 days 227 days 260 days 260 days 221 days 221 days 221 days 71.2 days 117.2 days 117.2 days 117.2 days 117.2 days 117.2 days 117.2 days	Qtr 4	Qtr 1	Qtr 2	<u> </u>	Qtr 4		Qtr 3	Qtr 4 Qtr 1	Qtr 2	<u> </u>
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538 SW-PAB-A605 539 SW-PAB-A606 540 Image: SW-PAB-A611 541 SW-PAB-A611 542 SW-PAB-A612 543 SW-PAB-A612 544 SW-PAB-A612 545 SW-PAB-A612 546 SW-PAB-A612 547 Image: SW-PAB-A612 548 SW-PAB-A612 549 SW-PAB-A612 549 SW-PAB-A612 549 SW-PAB-E101 550 SW-PAB-E101 551 SW-PAB-E102 552 SW-PAB-E103 553 SW-PAB-E106 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E108 558 SW-PAB-E108 559 SW-PAB-E102 560 SW-PAB-E102 559 SW-PAB-E102 560 SW-PAB-E102 561 SW-PAB-T100 562 SW-PAB-T200	FS Water Tank & Pump Rm - Install Equipment FS Water Tank & Pump Rm - Install Cat Ladder & Hatch Cover Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works External wall plastering/ painting works Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	45 days 10 days 42 days 70 days 30 days 60 days 60 days 280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days	Thu 26/2/26 Thu 2/4/26 Thu 4/12/25 Thu 4/12/25 Thu 15/1/26 Thu 29/1/26 Tu 3/2/26 Thu 5/3/26 Thu 19/3/26 Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26	Sat 11/4/26 Sat 11/4/26 Wed 14/1/26 Wed 25/3/26 Wed 8/4/26 Wed 4/3/26 Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	227 days 227 days 186.4 days 260 days 260 days 221 days 221 days 221 days 221 days 71.2 days 117.2 days 117.2 days 165.2 days										
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540 W-PAB-A611 541 SW-PAB-A612 542 SW-PAB-A612 543 SW-PAB-A612 544 SW-PAB-A612 544 SW-PAB-A612 545 SW-PAB-A612 546 SW-PAB-A612 547 SW-PAB-A612 548 SW-PAB-A612 549 SW-PAB-E101 550 SW-PAB-E102 551 SW-PAB-E102 552 SW-PAB-E102 553 SW-PAB-E102 554 SW-PAB-E102 555 SW-PAB-E103 554 SW-PAB-E102 555 SW-PAB-E102 555 SW-PAB-E102 556 SW-PAB-E103 557 SW-PAB-E102 558 SW-PAB-E102 557 SW-PAB-E102 558 SW-PAB-E102 559 SW-PAB-E102 560 SW-PAB-E102 561 SW-PAB-T100 562 SW-PAB-T200	Other Rooms G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building External wall plastering/ painting works External wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	132.6 days 42 days 70 days 30 days 60 days 60 days 100 days 30 days 100 days 24 days 24 days 20 days 20 days 20 days 45 days	Thu 4/12/25 Thu 4/12/25 Thu 15/1/26 Thu 29/1/26 Tue 3/2/26 Thu 19/3/26 Wed 4/2/26 Wed 10/6/26 Thu 30/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26	Sun 17/5/26 Wed 14/1/26 Wed 25/3/26 Wed 8/4/26 Wed 4/3/26 Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26	186.4 days 260 days 260 days 260 days 221 days 221 days 221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
541 SW-PAB-A611 542 SW-PAB-A612 543 SW-PAB-A614 544 SW-PAB-A614 545 SW-PAB-A614 546 SW-PAB-A614 547 Image: State S	G/F - Falsework Removal/ Preparation for ABWF & MEP Works G/F - ABWF Deg1 - Deg3 G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building External wall plastering/ painting works External wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	42 days 70 days 70 days 60 days 60 days 280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days	Thu 4/12/25 Thu 15/1/26 Thu 29/1/26 Thu 3/2/26 Thu 5/3/26 Thu 19/3/26 Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26	Wed 14/1/26 Wed 25/3/26 Wed 8/4/26 Wed 4/3/26 Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	260 days 260 days 260 days 221 days 221 days 221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
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543 SW-PAB-A612 544 SW-PAB-A614 545 SW-PAB-A615 546 SW-PAB-A616 547 Image: Comparison of the second of	G/F - BS 1st Fix - 3rd Fix 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building External wall plastering/ painting works External wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	70 days 30 days 60 days 280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days 45 days	Thu 29/1/26 Tue 3/2/26 Thu 5/3/26 Thu 19/3/26 Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26	Wed 8/4/26 Wed 4/3/26 Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 27/8/26 Thu 27/8/26	260 days 221 days 221 days 221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
544 SW-PAB-A612 545 SW-PAB-A615 546 SW-PAB-A616 547 Image: Comparison of the symbol 548 SW-PAB-E101 549 SW-PAB-E101 550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E103 553 SW-PAB-E103 554 SW-PAB-E103 555 SW-PAB-E103 555 SW-PAB-E103 556 SW-PAB-E103 557 SW-PAB-E103 558 SW-PAB-E103 559 Image: Comparison of the symbol 560 SW-PAB-E110 551 SW-PAB-E110 552 SW-PAB-E110 558 SW-PAB-E110 559 Image: Comparison of the symbol 561 SW-PAB-T200 562 Image: Comparison of the symbol	 1/F - Falsework Removal/ Preparation for ABWF & MEP Works 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning 	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	30 days 60 days 280 days 280 days 100 days 12 days 24 days 24 days 20 days 20 days 45 days	Tue 3/2/26 Thu 5/3/26 Thu 19/3/26 Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26	Wed 4/3/26 Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	221 days 221 days 221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
545 SW-PAB-A615 546 SW-PAB-A616 547 Image: Constraint of the symbol 548 SW-PAB-E101 550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E103 553 SW-PAB-E103 554 SW-PAB-E104 555 SW-PAB-E106 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E108 558 SW-PAB-E100 559 Image: SW-PAB-E110 560 SW-PAB-E110 551 SW-PAB-E110 552 SW-PAB-E110 554 SW-PAB-E110 555 SW-PAB-E120 556 SW-PAB-E120 560 SW-PAB-T200 562 Image: Sweet State	 1/F - ABWF Deg1 - Deg3 1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning 	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	60 days 60 days 280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days 45 days	Thu 5/3/26 Thu 19/3/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Sun 3/5/26 Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	221 days 221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
546 SW-PAB-A61€ 547 Image: Control of the symbol	1/F - BS 1st Fix - 3rd Fix External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	60 days 280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days 45 days	Thu 19/3/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Sun 17/5/26 Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	221 days 71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
547 W-PAB-E10C 548 SW-PAB-E10C 549 SW-PAB-E102 550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E104 554 SW-PAB-E104 555 SW-PAB-E105 556 SW-PAB-E108 557 SW-PAB-E108 558 SW-PAB-E102 558 SW-PAB-E102 559 SW-PAB-E110 560 SW-PAB-T100 561 SW-PAB-T200	External Works Underground Utilities Works, Drainage Works, Watermain Works & Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall plastering/ painting works Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0% 0% 0% 0%	280 days 100 days 30 days 12 days 24 days 24 days 20 days 20 days 45 days	Wed 4/2/26 Wed 4/2/26 Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Tue 12/1/27 Tue 9/6/26 Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	71.2 days 71.2 days 117.2 days 117.2 days 165.2 days										
549 SW-PAB-E101 550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E105 554 SW-PAB-E106 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E102 558 SW-PAB-E110 559 SW-PAB-T100 561 SW-PAB-T200	Testing at the Periphery of PAB Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0% 0%	30 days 12 days 24 days 24 days 20 days 20 days 45 days	Wed 10/6/26 Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Thu 16/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	117.2 days 117.2 days 165.2 days										
550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E104 554 SW-PAB-E107 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E102 558 SW-PAB-E102 559 SW-PAB-E110 560 SW-PAB-E110 561 SW-PAB-E102	Backfilling to Ground Level Site preparation and erect external falsework around building Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0%	12 days 24 days 24 days 20 days 20 days 45 days	Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	117.2 days 165.2 days										
550 SW-PAB-E102 551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E104 554 SW-PAB-E107 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E102 558 SW-PAB-E102 559 SW-PAB-E110 560 SW-PAB-T100 561 SW-PAB-T200	Site preparation and erect external falsework around building Extenal wall plastering/ painting works External wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0% 0%	12 days 24 days 24 days 20 days 20 days 45 days	Thu 16/7/26 Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	117.2 days 165.2 days										
551 SW-PAB-E103 552 SW-PAB-E104 553 SW-PAB-E105 554 SW-PAB-E107 555 SW-PAB-E108 557 SW-PAB-E108 558 SW-PAB-E101 559 SW-PAB-E110 560 SW-PAB-E110 561 SW-PAB-T200 562 Image: State S	Extenal wall plastering/ painting works Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0%	24 days 24 days 20 days 20 days 45 days	Thu 30/7/26 Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Thu 27/8/26 Thu 27/8/26	165.2 days										
552 SW-PAB-E104 553 SW-PAB-E105 554 SW-PAB-E107 555 SW-PAB-E108 556 SW-PAB-E108 557 SW-PAB-E101 558 SW-PAB-E110 559 SW-PAB-T100 560 SW-PAB-T100 561 SW-PAB-T200	Extenral wall tiles Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0% 0% 0%	24 days 20 days 20 days 45 days	Thu 30/7/26 Thu 27/8/26 Thu 27/8/26	Thu 27/8/26											
554 SW-PAB-E106 555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E100 558 SW-PAB-E110 559 Image: Comparison of the second s	Install Steel Claddings, Ventilation Louvres, External Ceiling Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0%	20 days 45 days	Thu 27/8/26	Fri 18/9/26											
555 SW-PAB-E107 556 SW-PAB-E108 557 SW-PAB-E102 558 SW-PAB-E110 559 Image: Comparison of the symbol 560 SW-PAB-T100 561 SW-PAB-T200 562 Image: Comparison of the symbol	Construction of vehicular road Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0% 0%	45 days			165.2 days										
556 SW-PAB-E108 557 SW-PAB-E109 558 SW-PAB-E110 559 SW-PAB-T100 560 SW-PAB-T200 562 Image: Second Secon	Install Bi-folding gate, security fenece, footpath, boundary wall Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0% 0%		Eri 19/0/26	Fri 18/9/26	117.2 days										
557 SW-PAB-E109 558 SW-PAB-E110 559 560 560 SW-PAB-T100 561 SW-PAB-T200 562 1	Underground Utilities Works, Drainage Works, Watermain Works & Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning	0%	48 days	111 TO/ 3/ 70	Fri 13/11/26	120.2 days										
558 SW-PAB-E110 559 560 SW-PAB-T100 561 SW-PAB-T200 562	Testing along Lion Rock Park Access Road Complete External Works Testing and Commisioning			Fri 18/9/26	Tue 17/11/26	117.2 days										
559 Second	Complete External Works Testing and Commisioning	0%	180 days	Wed 10/6/26	Tue 12/1/27	71.2 days										
559 Second	Testing and Commisioning		0 davs	Tue 12/1/27	Tue 12/1/27	71.2 days										
561 SW-PAB-T200 562	1A - West Fire Sta - Testing and Commissioning (FS - Related)	0%		Thu 30/7/26	Thu 22/10/26	98.8 days										
562		0%	18 days	Thu 30/7/26	Sun 16/8/26	118 days										
	1A - West Fire Sta - Testing and Commissioning (Non FS - Related)	0%	67 days	Mon 17/8/26	Thu 22/10/26	130 days										
563 A1000	Landscaping and Architectural Roof	0%	161.4 days	Wed 4/3/26	Mon 14/9/26	169.2 days										
	Construction of Gabion Wall	0%	51 days	Wed 4/3/26	Wed 6/5/26	242.6 days										
564 A1030	Tree Transplant near Gabion Wall	0%		Tue 31/3/26	Fri 5/6/26	242.6 days										
565 A1040	Installation of Landscape Fence	0%		Fri 5/6/26	Sat 20/6/26	242.6 days										
566 A1050	Architectural Roof hardwork	0%		Wed 20/5/26	Mon 14/9/26	169.2 days										
567 A1060 568	Architectural Roof softwork and Tree transplant	0%		Thu 18/6/26 Fri 1/5/26	Mon 17/8/26	194.2 days 91.8 days										
569	Statutory Approval & Inspection WSD Inspection		-	Fri 1/5/26	Tue 15/12/26 Tue 3/11/26	91.8 days 96.6 days										
570 SW-PAB-8000	Submit WWO 46 Part IV (PD) and Wait for Inspection by WSD	0%		Fri 1/5/26	Thu 4/6/26	200 days										
571 SW-PAB-8010	Inspection and Re-inspection by WSD (PD) (including water test)	0%		Fri 5/6/26	Thu 23/7/26	200 days										
572 SW-PAB-802C	Issuance Period of WWO 46 Part V (PD)	0%		Fri 24/7/26	Thu 13/8/26	200 days										
573 SW-PAB-803C	Obtain WWO 46 Part V (PD) by WSD	0%	0 days	Thu 13/8/26	Thu 13/8/26	200 days										
574 SW-PAB-701C	Inspection and Re-inspection by WSD (FS)	0%	58 days	Mon 17/8/26	Tue 13/10/26	118 days										
575 SW-PAB-702C	Issuance Period of WWO 46 Part V (FS)	0%	21 days	Wed 14/10/26	Tue 3/11/26	118 days										
576 SW-PAB-703C	Obtain WWO 46 Part V (FS) by WSD	0%	0 days	Tue 3/11/26	Tue 3/11/26	118 days										
577 SW-PAB-7000	Submit WWO 46 Part IV (FS) and Wait for Inspection by WSD	0%		Mon 13/7/26	Sun 16/8/26	118 days										
578	FSD and OP Inspection		-	Mon 17/8/26	Tue 15/12/26	91.8 days										
579 SW-PAB-9000	Submit Form 314 / FSI501 and Wait for Inspection by FSD	0%		Mon 17/8/26	Sun 6/9/26	176 days										
580 SW-PAB-901C 581 SW-PAB-902C	FS Inspection and Re-inspection Issue Fire Certificate (FS172)	0% 0%		Wed 4/11/26 Wed 2/12/26	Tue 1/12/26 Tue 15/12/26	118 days 118 days										
582 SW-PAB-903C	Obtain Fire Certificate (FS172) by FSD	0%		Tue 15/12/26	Tue 15/12/26	118 days										
	Vehicular Access Tunnel			Fri 9/12/20	Mon 26/4/27	-11.4 days	-									
584	Tunnel Works CH 0 - 24 by Cut and Cover Method			Fri 9/12/22	Wed 4/3/26	206 days										
585	Preliminary Works	100%		Fri 9/12/22	Fri 9/12/22	0 days	• 9	9/12								
586 SW-VAT-1000	Access to Portion 1	100%	-	Fri 9/12/22	Fri 9/12/22	0 days	• 9	9/12								
587	Structure Works	0%	123 days	Sat 4/10/25	Wed 4/3/26	206 days										ļ
588 SW-VAT-1510	Construction of temporary wall, waterproofing layer and wall (Total:	0%	48 days	Sat 4/10/25	Mon 1/12/25	206 days										
589 SW-VAT-1520	960m3, 8bays (10x10), PR= 12d/bay)	00/	21 days	Man 1/12/25	Sat 27/12/25	206 days										
589 SW-VAT-1520 590 SW-VAT-1530	Erection of working platform	0%		Mon 1/12/25	Sat 27/12/25	206 days 206 days										
590 SW-VAT-1530	Construction of top slab (Total: 792m3, 4bays(10x16.5), PR = 12d/bay, 2workfront)	0%	24 uays	Sat 27/12/25	Sat 24/1/26	200 uays										
591 SW-VAT-1540	Backfilling to existing level	0%	30 days	Sat 24/1/26	Wed 4/3/26	206 days										
592	Tunnel Works CH 24 - 697.8 & Caverns (5no.) by Mechanical Break &	0%	852 days	Sat 22/6/24	Mon 26/4/27	-44.8 days										
593 SW-VAT-2060	Drill & Blast Method Application of CNP to extend working bours (7 work days/week) in	0%	90 days	Sat 22/6/24	Thu 19/9/24	935 days										
595 SW-VAI-2000	Application of CNP to extend working hours (7 work days/week) in Tunnel & Cavern	0%	50 uays	Sat 22/6/24	Thu 19/9/24	935 days										
594 SW-VAT-2001	Pre-excavation grouting (with Dextra self-drilling piping system)	0%	17 days	Tue 6/8/24	Sat 24/8/24	-81.8 days										
	Installation of Face Nail Support in Top Heading	0%	5 days	Tue 6/8/24	Sat 10/8/24	-69.8 days							1			
595 SW-VAT-2002	Task Summa	ary			Inactive Milestone	<		Duration-o	only			Start-only	 	External Milesto	ne 🔷	
	5000	t Summary	, ⊢	i	Inactive Summary		1		mmary Rollup			Finish-only		Deadline	•	
Project: 21/WSD/21	4) Split Project	-	· -		Manual Task				,p							
595 SW-VAT-2002 Project: 21/WSD/21 Revised Programme (Apr 2024 Date: 1 May 2024	4) Split Project Milestone Inactive	e Task						Manual Sur	mmarv	1	i	External Tasks		Critical		

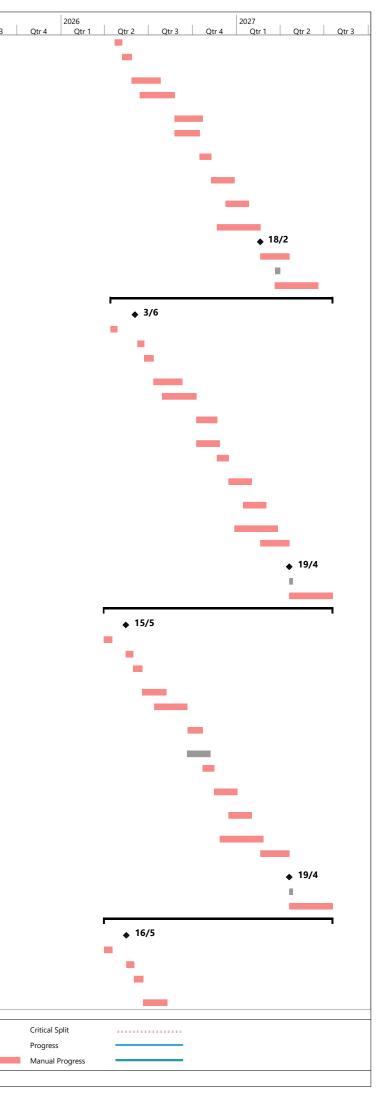


Activity ID Task Nam	ie	%	Duration Start	Finish	Total Slack	2023 2024	2025 2026 2027
		Complete	C dava Cur 10/0/2	L C-+ 24/0/24	700 0 4	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2	Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
96 SW-VAT-200 97 SW-VAT-2003	Installation of remaining raking struts Flame Cut Slots in Pipe Piles for Canopy Tube Installation	0%	6 days Sun 18/8/24 5 days Sat 24/8/24	4 Sat 24/8/24 Fri 30/8/24	786.6 d -81.8 days		
97 SW-VAT-2003 98 SW-VAT-2004	Double Layer Canopy Tube (18m length) Installation & Grouting		22 days Fri 30/8/24	Thu 26/9/24			
		0%			-81.8 days		
99 SW-VAT-200	Removal of 3rd Layer of Struts	0%	6 days Thu 19/9/24		759.6 d		
00 SW-VAT-2005	Installation of Portal Frame	0%	1 day Thu 26/9/24	Fri 27/9/24	-81.8 days		
01 SW-VAT-2006	Part Removal of Pipe Piles for TL & Shotcreting for Quadrant 1	0%	3 days Fri 27/9/24	Wed 2/10/24	-81.8 days		I contraction of the second
02	Tunnel Works CH24 to CH74 by Initial Mechanical Excavation		266 days Wed 2/10/24		-81.8 days		
03 SW-VAT-3200	Initial Mechanical Excavation - Top Heading Left - CH24 to CH74		52 days Wed 2/10/24	Mon 2/12/24	-81.8 days		
04 SW-VAT-3205	(1m/day) (incl. 2d for Double Layer Canopy Tube (6m) Installation at Part Removal of Pipe Piles for TL & Shotcreting for Quadrant 2		2 days 5at 26/10/24	Wed 30/10/24	622 6 days		
	· ·		3 days Sat 26/10/24				
05 SW-VAT-3210	Initial Mechanical Excavation - Top Heading Right - CH24 to CH74 (1m/day)	0%	50 days Wed 30/10/2	4 Sat 28/12/24	623.6 days		
06 SW-VAT-3220	Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	34 days Wed 21/5/25	Wed 2/7/25	530.6 days		
	Cofferdam - Bottom Bench Left						
07 SW-VAT-3215	Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	3 days Wed 2/7/25	Sat 5/7/25	530.6 days		1
	Cofferdam - Bottom Bench Left						
08 SW-VAT-3230	Initial Mechanical Excavation - Bottom Bench Right - CH74 to CH24	0%	34 days Thu 10/7/25	Mon 18/8/25	489.6 days		—
09 SW-VAT-3225	(1.5m/day) Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	2 days Tuo 10/9/25	Thu 21/9/25	190 E dave		
09 SW-VAI-3225	Cofferdam - Bottom Bench Right	0%	3 days Tue 19/8/25	Thu 21/8/25	489.6 days		1
10	Tunnel Works CH74 to CH276 by Mechanical Excavation & Drill & Blas	st 0%	314 days Mon 2/12/24	Fri 19/12/25	-81.8 days		
11 SW-VAT-3235	Pre-excavation Grouting at CH74 to CH104	0%	1 day Mon 2/12/24		-81.8 days		
2 SW-VAT-3240	Mechanical Excavation - Top Heading Left - CH74 to CH133 (1m/day)		59 days Tue 3/12/24		-81.8 days		
3 SW-VAT-3240			59 days Tue 3/12/24 59 days Sat 28/12/24		-		
	Mechanical Excavation - Top Heading Right - CH74 to CH133 (1m/da				623.6 days		
4 SW-VAT-3900	Mechanical Excavation - Full Heading - CH133 to CH175 (1.2m/day)		35 days Sat 15/2/25	Fri 28/3/25	-81.8 days		
15 SW-VAT-3910	Mechanical Excavation - Full Heading - CH175 to CH276 (1.2m/day)		85 days Fri 28/3/25	Mon 14/7/25	-81.8 days		
16 SW-VAT-3260	Mechanical Excavation - Bottom Bench Left - CH133 to CH110 (1m/d		23 days Fri 28/3/25	Mon 28/4/25	489.6 days		=
7 SW-VAT-3270	Mechanical Excavation - Bottom Bench Left - CH110 to CH74 (2m/da		18 days Mon 28/4/25		489.6 days		-
8 SW-VAT-3280	Mechanical Excavation - Bottom Bench Right - CH133 to CH110 (1m/	/ 0%	23 days Wed 21/5/25	Wed 18/6/25	489.6 days		-
19 SW-VAT-3290	Mechanical Excavation - Bottom Bench Right - CH110 to CH74 (2m/c	d: 0%	18 days Wed 18/6/25	Thu 10/7/25	489.6 days		
20 SW-VAT-3920	D&B Excavation - Bottom Bench Left - CH276 to CH133 (3.5m/day)	0%	41 days Fri 12/9/25	Sat 1/11/25	85.6 days		
1 SW-VAT-3930	D&B Excavation - Bottom Bench Right - CH276 to CH133 (3.5m/day)	0%	41 days Sat 1/11/25	Fri 19/12/25	85.6 days		_
2	Tunnel Works CH276 to CH286 by Drill & Blast Excavation (Initial)	0%	97 days Fri 28/3/25	Sat 26/7/25	-32.8 days		
3 SW-VAT-3080	Blast Door - Erect Steel Frame	0%	21 days Fri 28/3/25	Fri 18/4/25	-37.8 days		
4 SW-VAT-3090	Blast Door - Install Blast Door	0%	14 days Fri 18/4/25	Fri 2/5/25	-37.8 days		
25 SW-VAT-3100	Blast Door - Inspection by Mines Dept.	0%	7 days Fri 2/5/25	Fri 9/5/25	-37.8 days		
26 SW-VAT-3280	D&B Excavation - Top Heading Left - CH276 to CH286 (3m/day)	0%	4 days Mon 14/7/25		-81.8 days		
27 SW-VAT-3290	D&B Excavation - Top Heading Right - CH276 to CH286 (3m/day)	0%	4 days Mon 14/7/25		85.6 days		
28 SW-VAT-3300	D&B Excavation - Bottom Bench Left - CH276 to CH286 (3m/day)	0%	4 days Fri 18/7/25	Tue 22/7/25	85.6 days		
29 SW-VAT-3310			4 days Wed 23/7/25		137.6 days		
	D&B Excavation - Bottom Bench Right - CH276 to CH286 (3m/day)		-		-		<u> </u>
30	Tunnel Works CH286 to CH337.15 by Drill & Blast Excavation		26 days Fri 18/7/25	Sat 16/8/25	-81.8 days		
31 SW-VAT-3320	D&B Excavation - Top Heading Left - CH286 to CH337.15 (3m/day)		18 days Fri 18/7/25	Thu 7/8/25	-81.8 days		-
32 SW-VAT-3330	D&B Excavation - Top Heading Right - CH286 to CH337.15 (3m/day		18 days Fri 18/7/25	Thu 7/8/25	145.6 days		
33 SW-VAT-3340	D&B Excavation - Bottom Bench Left - CH286 to CH337.15 (3m/day		18 days Wed 23/7/25		99.6 days		
34 SW-VAT-3350	D&B Excavation - Bottom Bench Right - CH286 to CH337.15 (3m/da		18 days Mon 28/7/25	Sat 16/8/25	137.6 days		=
85	Tunnel Works CH337.15 to CH387.15 by Mechanical Excavation	0%	88 days Fri 8/8/25	Fri 21/11/25	-81.8 days		
6 SW-VAT-3355	Pre-excavation Grouting at CH360 to CH390	0%	1 day Fri 8/8/25	Fri 8/8/25	-81.8 days		
37 SW-VAT-3360	Mechanical Excavation - Top Heading Left - CH337.15 to CH387.15	0%	42 days Sat 9/8/25	Fri 26/9/25	-81.8 days		-
	(1.2m/day)		40.1	TI 05 /- /			
38 SW-VAT-3370	Mechanical Excavation - Top Heading Right - CH337.15 to CH387.15 (1.2m/day)	o 0%	42 days Fri 8/8/25	Thu 25/9/25	145.6 days		_
39 SW-VAT-3380	(1.2m/day) Mechanical Excavation - Bottom Bench Left - CH337.15 to CH387.15	5 0%	42 days Wed 13/8/25	Tue 30/9/25	99.6 days		_
	(1.2m/day)		. 2 3375 WCu 15/0/25	. ac 50/ 5/ 25	55.0 uuys		
40 SW-VAT-3390	Mechanical Excavation - Bottom Bench Right - CH337.15 to	0%	42 days Thu 2/10/25	Fri 21/11/25	99.6 days		_
	CH387.15 (1.2m/day)						
1	Tunnel Works CH387.15 to CH416 by Mechanical Excavation	0%	71 days Fri 26/9/25	Sat 20/12/25	-80.8 days		
2 SW-VAT-3395	Pre-excavation Grouting at CH410 to CH440	0%	1 day Sat 27/9/25	Sat 27/9/25	-81.8 days		I de la construcción de la constru
3 SW-VAT-3400	Mechanical Excavation - Top Heading Left - CH387.15 to CH416	0%	25 days Mon 29/9/25	Thu 30/10/25	-81.8 days		• • • • • • • • • • • • • • • • • • •
	(1.2m/day)						
4 SW-VAT-3410	Mechanical Excavation - Top Heading Right - CH387.15 to CH416	0%	25 days Fri 26/9/25	Mon 27/10/25	145.6 days		=
4E SIMI MAT 2420	(1.2m/day) Machanical Excavation Bottom Bonch Loft CH297 15 to CH416	00/	25 days Thu 2/40/25	Sat 1/11/25	141 6 2		_
45 SW-VAT-3420	Mechanical Excavation - Bottom Bench Left - CH387.15 to CH416 (1.2m/day)	0%	25 days Thu 2/10/25	Sat 1/11/25	141.6 days		-
46 SW-VAT-3430	Mechanical Excavation - Bottom Bench Right - CH387.15 to CH416	0%	25 days Fri 21/11/25	Sat 20/12/25	99.6 days		-
	(1.2m/day)		,				
.7	Tunnel Works CH416 to CH456 by Drill & Blast Excavation	0%	12 days Thu 30/10/2	5 Thu 13/11/25	-81.8 days		Π
8 SW-VAT-3440	D&B Excavation - Top Heading Expanding to Full Width and Height -	0%	12 days Thu 30/10/25	5 Thu 13/11/25	-81.8 days		 International statements
	CH416 to CH456 (3.5m/day)						
9	Tunnel Works CH456 to CH506 by Drill & Blast Excavation		15 days Thu 13/11/2				Π
0 SW-VAT-3470	D&B Excavation - Full Width and Height - CH456 to CH506 (3.5m/day	y 0%	15 days Thu 13/11/25	Mon 1/12/25	-81.8 days		and the second
1	Tunnel Works CH506 to CH557 by Drill & Blast Excavation	0%	16 days Mon 1/12/25	5 Fri 19/12/25	-81.8 days		
2 SW-VAT-3475	Pre-excavation Grouting at CH510 to CH540	0%	1 day Mon 1/12/25	Tue 2/12/25	-81.8 days		E Contra de
3 SW-VAT-3490	D&B Excavation - Full Width and Height - CH506 to CH557 (3.5m/day	y 0%	15 days Tue 2/12/25		-81.8 days		
		-					
oject: 21/WSD/21	Task Sumr	mary	i	Inactive Milestone	•	Duration-only Start-only	External Milestone 🔷 Critical Split
	Split Proje	ect Summar	y l	Inactive Summary	0	Manual Summary Rollup Finish-only	Deadline Progress
vised Programme (Apr 2024)							
sed Programme (Apr 2024) e: 1 May 2024	Milestone	ive Task		Manual Task		Manual Summary External Tasks	Critical Manual Progress

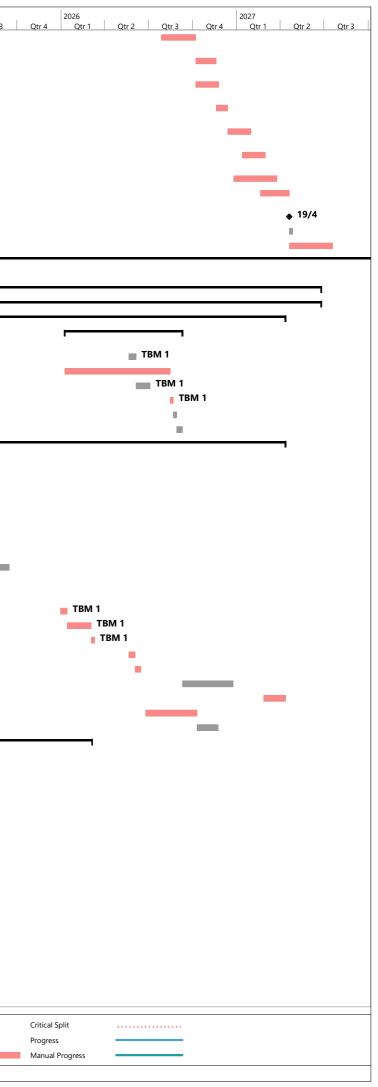
ID	Activity ID Task N	ame		%	Duration	Start	Finish	Total Slack		2022				2024				2025		
	Activity ID Task N			Complete					Qtr 4	2023 Qtr 1	Qtr 2	Qtr 3	Qtr 4	2024 Qtr 1	Qtr 2	Qtr 3	Qtr 4	2025 Qtr 1	Qtr 2 C	<u>Qtr 3</u>
654			7 to CH607 by Drill & Blast Excavation	0%		Fri 19/12/25	Thu 8/1/26	-81.8 days												
655 656	SW-VAT-3510		Full Width and Height - CH557 to CH607 (3.5m/day			Fri 19/12/25	Thu 8/1/26	-81.8 days												
	SW-VAT-353C		7 to CH645 by Drill & Blast Excavation Full Width and Height - CH607 to CH645 (3.5m/day	0% 0%		Thu 8/1/26 Thu 8/1/26	Wed 21/1/26 Wed 21/1/26	-81.8 days -81.8 days												
658	500 V/ (1 5550		n A (SWSR1) by Drill & Blast Excavation (CH527.03			Fri 12/12/25	Tue 5/5/26	-81.8 days												
659	SW-VAT-3800	Junction Pre-supp		0%	-	Fri 12/12/25	Thu 18/12/25	-42.8 days												
660	SW-VAT-3570		Cavern A Top Heading - CHA00 to CHA22	0%	7 days	Mon 29/12/25	Tue 6/1/26	-49.8 days												
661	SW-VAT-3580	(3.5m/day) (J2, Dr	rained) Cavern A Top Heading - CHA22.0 to CHA92.0 (3.5m)	0%	20 days	Tue 6/1/26	Thu 29/1/26	-49.8 days												
	SW-VAT-3580 SW-VAT-3585		Cavern A Top Heading - CHA92.0 to CHA92.0 (3.5m) Cavern A Top Heading - CHA92.0 to CHA125.428	0%		Thu 29/1/26	Wed 25/2/26	-49.8 days -81.8 days												
002		(3.5m/2 day cycle		0/0	20 0035	1110 23/ 1/ 20	Wea 25/2/20	01.0 0035												
663	SW-VAT-3600		Cavern A Bottom Bench - CHA22 to CHA125.428	0%	24 days	Wed 11/3/26	Fri 10/4/26	-81.8 days												
664	SW-VAT-3610	(25m/3 day cycle) D&B Excavation -	Cavern A Bottom Bench - CHA6.774 to CHA22	0%	6 days	Fri 10/4/26	Fri 17/4/26	-81.8 days												
		(25m/3 day cycle)		• / -																
	SW-VAT-3615	Mucking Out		0%		Fri 17/4/26	Tue 5/5/26	-81.8 days												
666			n B (SWSR2) by Drill & Blast Excavation (CH567.52		-	Tue 30/12/25	Sat 20/6/26	-67.8 days												
	SW-VAT-3810 SW-VAT-3630	Junction Pre-supp		0%		Tue 30/12/25 Wed 21/1/26	Mon 5/1/26 Thu 29/1/26	-67.8 days												
668	SVV-VA1-303U	(3.5m/day) (J2, Dr	Cavern B Top Heading - CHB00 to CHB23 rained)	0%	7 uays	weu 21/1/20	1110 29/1/20	-81.8 days												
669	SW-VAT-3640	D&B Excavation -	Cavern B Top Heading - CHB23 to CHB121.595	0%	57 days	Fri 30/1/26	Mon 13/4/26	-51 days												
670	SW-VAT-365C	(3.5m/2 day cycle) Cavern B Bottom Bench - CHB23 to CHB121.595	0%	24 days	Mon 27/4/26	Wed 27/5/26	-51 days												
0/0	544 VAI-3030	(25m/3 day cycle)		070	27 udys	111011 27/4/20	Wed 27/5/26	-51 days												
671	SW-VAT-366C		Cavern B Bottom Bench - CHB8.057 to CHB23	0%	6 days	Wed 27/5/26	Wed 3/6/26	-51 days												
672	SW-VAT-3665	(25m/3 day cycle) Mucking Out	(J2, Drained)	0%	14 days	Wed 3/6/26	Sat 20/6/26	-51 days												
673		÷	n C (FWSR1) by Drill & Blast Excavation (CH620.61			Sat 17/1/26	Thu 28/5/26	-34.8 days												
674	SW-VAT-3820	Junction Pre-supp	port	0%	5 days	Sat 17/1/26	Fri 23/1/26	-29.8 days												
675	SW-VAT-3710	D&B Excavation -	Cavern C Top Heading - CHC00 to CHC21 (3.5m/2	0%	12 days	Thu 29/1/26	Thu 12/2/26	-34.8 days												
676		day cycle) (J2, Dra		00/	27.1	TI 42/2/20	20/2/26	24.0.1												
676	SW-VAT-3720	(3.5m/2 day cycle	Cavern C Top Heading - CHC21 to CHC85.453	0%	37 days	Thu 12/2/26	Mon 30/3/26	-34.8 days												
677	SW-VAT-3730		Cavern C Bottom Bench - CHC21 to CHC85.453	0%	18 days	Thu 16/4/26	Fri 8/5/26	-34.8 days												
670		(20m/3 day cycle)																		
678	SW-VAT-3740	D&B Excavation - (20m/3 day cycle)	Cavern C Bottom Bench - CHC6.680 to CHC21 (J2. Drained)	0%	6 days	Fri 8/5/26	Fri 15/5/26	-34.8 days												
679	SW-VAT-3745	Mucking Out	(2) 2. a	0%	10 days	Fri 15/5/26	Thu 28/5/26	-34.8 days												
680		Tunnel Works Caver	n D (FWSR2) by Drill & Blast Excavation (CH645)	0%	103 days	Wed 21/1/26	Fri 29/5/26	-48 days												
681	SW-VAT-3830	Junction Pre-supp	port	0%	5 days	Wed 21/1/26	Tue 27/1/26	-45 days												
682	SW-VAT-3750		Cavern D Top Heading - CHD00 to CHD16 (3.5m/2	0%	10 days	Fri 30/1/26	Wed 11/2/26	-48 days												
683	SW-VAT-3760	day cycle) (J2, Dra D&B Excavation -	aned) Cavern D Top Heading - CHD16 to CHD82.750	0%	39 days	Wed 11/2/26	Tue 31/3/26	-48 days												
005		(3.5m/2 day cycle		0/0	55 4475		100 01,0,20	10 00,0												
684	SW-VAT-3770		Cavern D Bottom Bench - CHD16 to CHD82.750	0%	18 days	Fri 17/4/26	Sat 9/5/26	-48 days												
685	SW-VAT-3780	(20m/3 day cycle)	Cavern D Bottom Bench - CHD00 to CHD16 (20m/3	0%	6 days	Sat 9/5/26	Sat 16/5/26	-48 days												
005	3W VAI 3700	day cycle) (J2, Dra		070	0 0033	501 5/ 5/ 20	501 10/ 5/ 20	40 days												
686	SW-VAT-3785	Mucking Out		0%	10 days	Sat 16/5/26	Fri 29/5/26	-48 days												
687		Remaining Works		0%	493 days	Mon 1/9/25	Mon 26/4/27	-11.4 days												
	SW-VAT-3000		fMA for compartment construction	0%		Mon 1/9/25	Tue 3/3/26	153.6 days												
	SW-VAT-3001		for compartment construction	0%		Tue 28/10/25	Tue 24/3/26	153.6 days												
690	SW-VAT-3010		nstruction of drainage layer, base slab, lower part 313.15m, PR=12m/wk (157d)	0%	157 days	Fri 19/12/25	Thu 2/7/26	85.6 days												
691	SW-VAT-3020	[CH24-337.15] Co	nstruction of RC Lining (min 24m from base slab +	0%	169 days	Mon 19/1/26	Thu 13/8/26	85.6 days												
C 02	SWA MAT 2020	2wk erection) 313		00/	157-1	Man 16/2/26	Thu 27/0/26	05.6 -												
692	SW-VAT-3030	[CH24-337.15] Co Lining), 313.15m,	nstruction of compartment RHS (min 24m from PR=2m/d	0%	121 gays	Mon 16/2/26	Thu 27/8/26	85.6 days												
693	SW-VAT-3035	[CH24-337.15] Co	nstruction of compartment LHS (min 24m from	0%	157 days	Thu 12/3/26	Wed 16/9/26	85.6 days												
604	SW-1/AT 2010	RHS Lining), 313.1		0.04	151	Wed 2/c/2c	Thu 2/12/20	_22 / dave												
 694	SW-VAT-3010		Construction of drainage layer, base slab, lower avation) 307.15m, PR=12m/wk (154d)	0%	154 aays	Wed 3/6/26	Thu 3/12/26	-32.4 days												
695	SW-VAT-3020	[CH337.15-644.3]	Construction of RC Lining (min 24m from base slab	0%	166 days	Thu 2/7/26	Mon 18/1/27	-32.4 days												
606	S/W/ 1/AT 2025		07.153m, PR=2m/d	0%	1E4 d	Thu 27/0/20	Wod 2/2/27	22 4 4												
696	SW-VAT-3035	[CH337.15-644.3] Lining), 307.153, F	Construction of compartment RHS (min 24m from PR=2m/d	0%	154 days	Thu 27/8/26	Wed 3/3/27	-32.4 days												
697	SW-VAT-3030	[CH337.15-644.3]	Construction of compartment LHS (min 24m from	0%	154 days	Thu 3/9/26	Wed 10/3/27	-32.4 days												
600	SW-1/AT 2040	Lining), 307.15m,		0.04	125	Cat 11/11/20	Man 20/2/27	-1E 0 davia												
698	SW-VAT-304C		eworks below proposed road level (Total: 3726m) M for Pressure Test (135d)	0%	122 gays	Sat 14/11/26	Mon 29/3/27	-15.8 days												
699	SW-VAT-307C		HVD, 620.3m, PR=12d/50m	0%	135 days	Tue 8/12/26	Thu 22/4/27	-9.8 days												
700	SW-VAT-3080	Installation of FS a	and E&M along VAT	0%	120 days	Mon 9/11/26	Wed 7/4/27	-1.4 days												
	SW-VAT-3090	FS Inspection for	VAT	0%	6 days	Wed 7/4/27	Wed 14/4/27	-1.4 days												
	SW-VAT-306C		power cable along VAT	0%		Thu 11/2/27	Mon 26/4/27	-32.4 days												
703			rvice Reservoir No.1 (CH527.03)		-	Wed 25/2/26	Fri 18/6/27	-81.8 days												
	SW-C1-1000	Caverns A - Completion		0%		Fri 17/4/26	Fri 17/4/26	-83 days												
/05	SW-C1-1010	caverns A - Constructio	n of Permanent Shotcrete Lining (Top Heading)	0%	12 days	Wed 25/2/26	Wed 11/3/26	-81.8 days												
Project [.]	21/WSD/21		Task Summa	ary	F	ı	Inactive Milestone	\diamond		Duration-	only			Start-only	E	1	Exter	nal Milestone	\diamond	
Revised	Programme (Apr 2024)		Split Project	Summary	/ F	1	Inactive Summary	1		Manual S	ummary Rollup			inish-only	:	3	Dead	lline	+	
Date: 1	May 2024		Milestone Milestone	e Task			Manual Task			Manual S	ummary			xternal Tasks			Critic	al		
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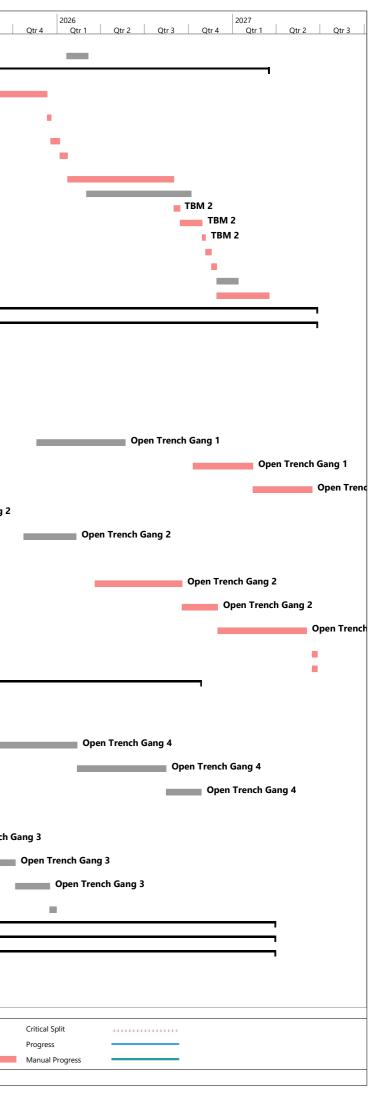
	ctivity ID Task N	ame	%	Duration	Start	Finish	Total Slack		2023				2024				2025	
			Complete					Qtr 4	2023 Qtr 1	Qtr 2	Qtr 3	Qtr 4		Qtr 2	Qtr 3	Qtr 4		Qtr 2 Q
	W-C1-1011 W-C1-1020	Caverns A - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns A - Construction of Cavern Lining (Total: 5m long, PR=12m/9d +	0% 0%		Wed 22/4/26 Thu 7/5/26	Thu 7/5/26 Wed 27/5/26	-81.8 days -81.8 days											
107 3	W-CI-1020	2wk for erection)	0%	10 days	1110 7/5/20	weu 27/5/20	-01.0 Udys											
708 S	W-C1-1030	Caverns A - Waterproofing system and protection layer to Wall and Slab	0%	60 days	Wed 27/5/26	Sun 26/7/26	-104 days	l.										
709 S	W-C1-1040	Caverns A - Construction of Slab 1.6m thk for water tank area (Total:	0%	60 days	Sat 13/6/26	Mon 24/8/26	-81.8 days	l.										
710 0	W C1 1050	1939m3, 12bays(11x9), PR= 15d/bay, 3workfronts)	09/	10 days	Map 24/8/26	Wed 21/10/26	E4.9 days											
	W-C1-1050 W-C1-1060	Caverns A - Construction of wall, beam & slab up to 91.35mPD for water ta Caverns A - Construction of Slab 1.0m thk for pump/plant room area			Mon 24/8/26	Wed 21/10/26	-54.8 days											
	W-C1-1060	(Total:1200m3, 11bays(12x9), PR=12d/bay, 3 workfront)	0%	44 days	Mon 24/8/26	Thu 15/10/26	-81.8 days											
712 S	W-C1-1070	Caverns A - Construction of soil filling, pipeworks and at-grade slab for	0%	24 days	Fri 16/10/26	Sun 8/11/26	-97 days	1										
		pump/ plant room area						1										
713 S	W-C1-1080	Caverns A - Construction of wall, beam & slab up to cavern soffit for	0%	48 days	Mon 9/11/26	Sat 26/12/26	-97 days	1										
714 5	W-C1-1090	pump/ plant room area Caverns A - Construction of remaining works incl. staircase, partition wall	0%	48 davs	Wed 9/12/26	Mon 25/1/27	-97 days	1										
		and other civil works for E&M plant	•/-	,.														
715 S	W-C1-1100	Caverns A - FS, BS, E&M works and ABWF	0%	90 days	Sat 21/11/26	Thu 18/2/27	-97 days											
'16 S	W-C1-1110	Caverns A - Completion of BS and ABWF works and Handover to CLP	0%	0 days	Thu 18/2/27	Thu 18/2/27	-97 days	1										
717 S	W-C1-1120	Caverns A - CLP installation works in Transformer Room and Switcboard Ro	0%	60 days	Fri 19/2/27	Mon 19/4/27	-97 days	1										
718 S	W-C1-1125	Caverns A - FS Inspection	0%	6 days	Mon 22/3/27	Wed 31/3/27	376.8 days	1										
	W-C1-1130	Caverns A - Testing and Commissioning	0%		Sun 21/3/27	Fri 18/6/27	-67 days	1										
20		averns B - Salt Water Service Reservoir No.2 (CH567.527)			s Mon 13/4/26	Sun 18/7/27	-51 days	1										
	W-C2-1000	Caverns B - Completion of Tunnel Works	0%		Wed 3/6/26	Wed 3/6/26	-43 days	1										
	W-C2-1010	Caverns B - Construction of Permanent Shotcrete Lining (Top Heading)	0%		Mon 13/4/26	Mon 27/4/26	-51 days	1										
	W-C2-1011	Caverns B - Construction of Permanent Shotcrete Lining (Bottom Bench)	0%		Mon 8/6/26	Mon 22/6/26	-51 days	1										
24 S	W-C2-1020	Caverns B - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection)	0%	16 days	Mon 22/6/26	Sat 11/7/26	-51 days	1										
725 S	W-C2-1030	Caverns B - Waterproofing system and protection layer to Wall and Slab	0%	60 days	Sat 11/7/26	Wed 9/9/26	-61.2 days	1										
726 S	W-C2-1040	Caverns B - Construction of Slab 1.6m thk for water tank area (Total:	0%	60 days	Wed 29/7/26	Thu 8/10/26	-51 days	1										
		1880m3, 15bays (11x7), PR= 15d/bay, 3workfronts)						1										
727 S	W-C2-1060	Caverns B - Construction of Slab 1.0m thk for pump/plant room area	0%	36 days	Fri 9/10/26	Fri 20/11/26	-51 days	1										
728 5	W-C2-1050	(Total:597m3, 7bays(11x7.5), PR=12d/bay, 3 workfront) Caverns B - Construction of wall, beam & slab up to 91.35mPD for water ta	0%	48 days	Fri 9/10/26	Wed 25/11/26	-32 days	1										
	W-C2-1050	Caverns B - Construction of soil filling, pipeworks and at-grade slab for	0%		Sat 21/11/26	Mon 14/12/26	-63 days	1										
		pump/ plant room area	0,0	2.00,5	50(22, 22, 20		oo uuyo	1										
730 S	W-C2-1080	Caverns B - Construction of wall, beam & slab up to cavern soffit for	0%	48 days	Tue 15/12/26	Sun 31/1/27	-63 days											
721 0	W C2 1000	pump/ plant room area	09/	10 days	Thu 14/1/27	Tu a 2/2/27	C2 days											
/ 51 3	W-C2-1090	Caverns B - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	0%	48 û ays	Thu 14/1/27	Tue 2/3/27	-63 days											
732 S	W-C2-1100	Caverns B - FS, BS, E&M works and ABWF	0%	90 days	Sun 27/12/26	Fri 26/3/27	-63 days	1										
733 S	W-C2-1110	Caverns B - Connect power cable from SWSR1 Transformer Room &	0%	60 days	Fri 19/2/27	Mon 19/4/27	-97 days	1										
		Switcboard Room to SWSR2						1										
	W-C2-1120	Caverns B - Energization of SWSR2	0%		Mon 19/4/27	Mon 19/4/27	-97 days	1										
	W-C2-1125	Caverns B - FS Inspection	0%		Tue 20/4/27	Mon 26/4/27	355.8 days	1										
736 S 737	W-C2-1130	Caverns B - Testing and Commissioning	0%		Tue 20/4/27	Sun 18/7/27	-97 days -34.8 days	1										
	W-C4-1000	averns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works	0%		5 Mon 30/3/26 Fri 15/5/26	Sun 18/7/27 Fri 15/5/26	-27.8 days	1										
	W-C4-1000 W-C4-1010	Caverns C - Construction of Permanent Shotcrete Lining (Top Heading)	0%		Mon 30/3/26	Thu 16/4/26	-34.8 days											
	W-C4-1010	Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench)	0%		Fri 15/5/26	Sat 30/5/26	-34.8 days											
	W-C4-1011	Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d +	0%		Sat 30/5/26	Thu 18/6/26	-34.8 days											
		2wk for erection)	0,0	20 00,0	54(50, 5, 20													
742 S	W-C4-1030	Caverns C - Waterproofing system and protection layer to Wall and Slab	0%	50 days	Thu 18/6/26	Fri 7/8/26	-41.8 days	1										
743 S	W-C4-1040	Caverns C - Construction of Slab 1.6m thk for water tank area (Total:	0%	60 days	Mon 13/7/26	Sat 19/9/26	-34.8 days	1										
744 5	W-C4-1060	2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area	0%	24 days	Mon 21/9/26	Wed 21/10/26	-34.8 days	l.										
, 44 3		(Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront)	070	24 uays	1011 21/ 3/ 20	wcu 21/10/20	54.0 uays	1										
745 S	W-C4-1050	Caverns C - Construction of wall, beam & slab up to 91.35mPD for water ta	0%	48 days	Sun 20/9/26	Fri 6/11/26	25 days	1										
746 S	W-C4-1070	Caverns C - Construction of soil filling, pipeworks and at-grade slab for	0%	24 days	Thu 22/10/26	Sat 14/11/26	-43 days	1										
	NI CA 1005	pump/ plant room area	001	40.1	Cum 45 / 4 4 /	F-1 4 /4 /2-	12	1										
747 S	W-C4-1080	Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	0%	48 days	Sun 15/11/26	Fri 1/1/27	-43 days	1										
748 S	W-C4-1090	Caverns C - Construction of remaining works incl. staircase, partition wall	0%	48 davs	Tue 15/12/26	Sun 31/1/27	-43 days											
		and other civil works for E&M plant						l.										
749 S	W-C4-1100	Caverns C - FS, BS, E&M works and ABWF	0%	90 days	Fri 27/11/26	Wed 24/2/27	-43 days	1										
750 S	W-C4-1110	Caverns C - Connect power cable from SWSR1 Transformer Room &	0%	60 days	Fri 19/2/27	Mon 19/4/27	-97 days	1										
751 0	W-C4-1120	Switcboard Room to FWSR1 Caverns C - Energization of FWSR1	0%	0 davis	Mon 19/4/27	Mon 19/4/27	-97 days	1										
	W-C4-1120 W-C4-1125	Caverns C - Energization of FWSR1 Caverns C - FS Inspection	0%		Tue 20/4/27	Mon 19/4/27 Mon 26/4/27	-97 days 355.8 days	1										
	W-C4-1125 W-C4-1130	Caverns C - Testing and Commissioning	0%		Tue 20/4/27	Sun 18/7/27	-97 days	1										
754		averns D - Fresh Water Service Reservoir No.2 (CH645)			s Tue 31/3/26	Sun 18/7/27 Sun 18/7/27	-97 days	1										
	W-C5-1000	Caverns D - Completion of Tunnel Works	0%		Sat 16/5/26	Sat 16/5/26	-46 days	1										
	W-C5-1010	Caverns D - Construction of Permanent Shotcrete Lining (Top Heading)	0%		Tue 31/3/26	Fri 17/4/26	-48 days	1										
	W-C5-1011	Caverns D - Construction of Permanent Shotcrete Lining (Pop Heading)	0%		Sat 16/5/26	Mon 1/6/26	-48 days	1										
	W-C5-1011 W-C5-1020	Caverns D - Construction of Cavern Lining (Total: 5m long, PR=12m/9d +	0%		Mon 1/6/26	Sat 20/6/26	-48 days	1										
		2wk for erection)	5,5					1										
	1020																	
759 S	W-C5-1030	Caverns D - Waterproofing system and protection layer to Wall and Slab	0%	50 days	Sat 20/6/26	Sun 9/8/26	-59 days	1										
759 S		Caverns D - Waterproofing system and protection layer to Wall and Slab		50 days	Sat 20/6/26		-											
oject: 2	W-C5-1030 1/WSD/21	Caverns D - Waterproofing system and protection layer to Wall and Slab Task Summ	lary	F	Sat 20/6/26	Inactive Milestone	-59 days		Duration				tart-only		C		ernal Milestone	\$
roject: 2 evised F	W-C5-1030	Caverns D - Waterproofing system and protection layer to Wall and Slab Task Summ	iary t Summary	F	Sat 20/6/26		-		Manual	i-only Summary Rollup Summary	p	F	tart-only inish-only xternal Tasks		C 3		dline	¢ •



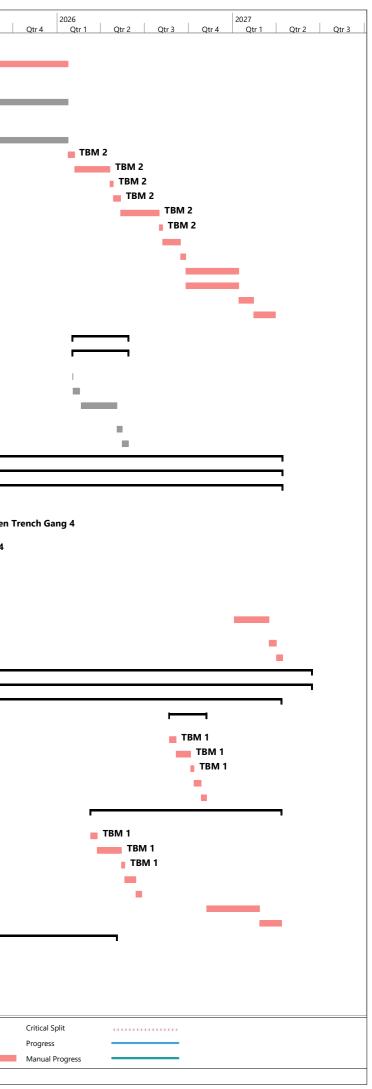
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D	Activity ID	ask Name	% Complete	Duration	Start	Finish	Total Slack		023 Qtr 1 Qtr 2	Otr 3	Qtr 4	2024 Qtr 1	Otr 2	Qtr 3	Qtr 4	2025 Otr 1	Otr 2	Qtr 3
760	6W-C5-1040	Caverns D - Construction of Slab 1.6m thk for water tank area (Total:	0%	60 days	Tue 28/7/26	Wed 7/10/26	-49.2 days		Qui Quiz	Quis	Quit	Qui		Quis	Quit	Qui	QUE	Quis
		1961m3, 12bays (11x9), PR= 15d/bay, 3workfronts)	001	26.1	17/10/26	TI 40/44/20	10.0.1	_										
/61	SW-C5-1060	Caverns D - Construction of Slab 1.0m thk for pump/plant room area (Total:986m3, 9bays (11x9), PR=12d/bay, 3 workfront)	0%	36 days	Wed 7/10/26	Thu 19/11/26	-49.2 days											
762	SW-C5-1050	Caverns D - Construction of wall, beam & slab up to 91.35mPD for water	0%	48 days	Wed 7/10/26	Tue 24/11/26	-30.2 days	5										
		tank area	001	24.1	TI 40/44/20	c 42/42/20	(1.2.1	_										
763	SW-C5-1070	Caverns D - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	0%	24 days	Thu 19/11/26	Sun 13/12/26	-61.2 days	5										
764	SW-C5-1080	Caverns D - Construction of wall, beam & slab up to cavern soffit for	0%	48 days	Sun 13/12/26	Sat 30/1/27	-61.2 days	5										
		pump/ plant room area						_										
765	SW-C5-1090	Caverns D - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant	0%	48 days	Tue 12/1/27	Mon 1/3/27	-61.2 days	5										
766	SW-C5-1100	Caverns D - FS, BS, E&M works and ABWF	0%	90 days	Fri 25/12/26	Thu 25/3/27	-61.2 days	5										
	5W-C5-1110	Caverns D - Connect power cable from SWSR1 Transformer Room &	0%		Fri 19/2/27	Mon 19/4/27	-97 days	-										
		Switcboard Room to FWSR2		,				_										
	SW-C5-1120	Caverns D - Energization of FWSR2	0%		Mon 19/4/27	Mon 19/4/27	-97 days											
	SW-C5-1125	Caverns D - FS Inspection	0%		Tue 20/4/27	Mon 26/4/27	355.8 days	-										
	SW-C5-1130	Caverns D - Testing and Commissioning	0%		Tue 20/4/27	Sun 18/7/27	-97 days											
771	1070	Revised Watermain Works @ Portion 5			Wed 28/12/22		0 days											
	A1070	XP Application Alignment A			Wed 28/12/22 Tue 13/6/23	Mon 12/6/23 Fri 25/6/27	0 days											
773 774		Alignment A - Chuk Yuen Road			Tue 13/6/23	Fri 25/6/27	-61.6 days		r -									
775		Alignment A - Chuk Yuen Road - Trenchless			Mon 3/7/23	Mon 12/4/27	0.4 days		r									
776		Alignment A - Chuk Yuen Road - Trenchless A1 (CHA70 Pit 2 to			Thu 8/1/26	Wed 9/9/26	0 days			'								
		CHA0) - 7th Drive																
	SW-JPA-1080	Plant mobilization and set-up at Launching pit 2 (CHA70)	0%		Thu 21/5/26	Fri 5/6/26	36 days											
778	SW-JPA-1085	Construction of Receiving Pit 0 at PAB	0%	180 days	Thu 8/1/26	Sat 15/8/26	0 days											
779	SW-JPA-1090	Excavation (70m) by Pipe Jacking method, PR=3m/d (7th drive) 0%	24 days	Fri 5/6/26	Sat 4/7/26	36 days	_										
	SW-JPA-1110	Plant demobilisation	0%		Sun 16/8/26	Fri 21/8/26	0.4 days	_										
	SW-JPA-1120	Pipe Installation (70m x 3nos.) (12m/d for pipe)	0%		Sat 22/8/26	Fri 28/8/26	48.4 days	-										
	SW-JPA-5200	Pressure Test (70m x 3nos.) Trenchless A1	0%		Sat 29/8/26	Wed 9/9/26	48.4 days											
783		Alignment A - Chuk Yuen Road - Trenchless A2 (CHA70 Pit 2 to CHA190 Pit 3) - 5th Drive	12%	1088.8 days	Tue 22/8/23	Mon 12/4/27	0.4 days											
784	SW-JPA-2000	TTA implementation at CHA190, site clearance, road	100%		Tue 22/8/23	Tue 22/8/23	0 days			1								
		modification and site setup						_										
	SW-JPA-5290	UU Detection, Trial Pit at CHA190	100%		Wed 23/8/23	Mon 6/11/23	0 days	_										
786	5W-JPA-2040	Installation of instrumentation and monitoring device and condition survey	100%	7 days	Wed 23/8/23	Wed 30/8/23	0 days											
787	SW-JPA-2045	TTA implementation at CH70, site clearance, road modification	n 100%	25 days	Wed 22/11/23	Thu 21/12/23	0 days	-										
		and site setup and UU Detection						_										
	SW-JPA-2046	Trial sheet piling work to verify the obstruction by boulders a			Thu 21/12/23	Fri 22/12/23	0 days	_				1						
	SW-JPA-2050	Construction of launching pit 2 (CHA70) (Common pit with B2			Sat 8/2/25	Mon 15/9/25	18.4 days											
	SW-JPA-2051	Trial sheet piling work to verify the obstruction by boulders a			Tue 7/11/23	Tue 7/11/23	0 days	_										
	SW-JPA-2060	Construction of receiving pit 3 (CHA190) (Common pit with B.					18.4 days	-										
	SW-JPA-2080 SW-JPA-2090	Plant mobilization and set-up at Launching pit 2 (CHA70) Excavation (120m) by Pipe Jacking method, PR=3m/d (5th dri	0%		Tue 30/12/25 Tue 13/1/26	Tue 13/1/26 Wed 4/3/26	-68.6 days	-										
	SW-JPA-2030	Plant demobilization	0%		Wed 4/3/26	Wed 4/3/20 Wed 11/3/26	-68.6 days	-										
	SW-JPA-2120	Pipe Installation (120m x 3nos.; 12m/d for pipe)	0%		Thu 21/5/26	Wed 3/6/26	-59.6 days	_										
	SW-JPA-5240	Pressure Test (120m) Trenchless A2	0%		Wed 3/6/26	Mon 15/6/26	-59.6 days	-										
	SW-JPA-5210	Construction of Valve Chamber 2 (CHA70) - Alignment A	0%		Thu 10/9/26	Thu 24/12/26	48.4 days	-										
798	SW-JPA-2130	Reinstatement of Jacking Pit (CHA70)	0%	36 days	Thu 25/2/27	Mon 12/4/27	0.4 days	_										
799	SW-JPA-5230	Construction of Valve Chamber 3 (CHA190) after Trenchless B	2 0%	89 days	Fri 26/6/26	Sat 10/10/26	-68.6 days	5										
800	5W-JPA-1130	Reinstatement of Receiving Pit (CHA190) after Trenchless B2	0%	36 days	Sat 10/10/26	Mon 23/11/26	112.4 days	-										
801		Alignment A - Chuk Yuen Road - Trenchless A3 (CHA610 Pit 6 t	33%	777 days	Thu 3/8/23	Fri 6/3/26	328.2 days	5		-								
		CHA780 Pit 8) - 1st Drive	1000	00 /		T 00 /0 /00												
802	SW-JPB-4000	TTA implementation at CHA610, site clearance, road modification and site setup	100%	23 days	Thu 3/8/23	Tue 29/8/23	0 days											
803	SW-CCEN-206	Delay due to KMB Company's requirement on bus shelter	100%	38 days	Tue 8/8/23	Wed 20/9/23	0 days											
		removal (EWN-0010)						_										
	SW-JPA-5330	UU Detection, Trial Pit	100%		Tue 15/8/23	Mon 18/9/23	0 days	_										
805	SW-JPB-4040	Installation of instrumentation and monitoring device and condition survey	100%	14 days	Wed 30/8/23	Thu 14/9/23	0 days											
806	SW-JPB-4041	Trial sheet piling work to verify the obstruction by boulders a	F 100%	1 day	Wed 11/10/23	Wed 11/10/23	0 days	-										
807	SW-CCEN-207	Delay due to encountering boulder (unable to drive sheetpile		85 days	Fri 15/9/23	Thu 28/12/23	0 days	_			-							
		design amendment to suit)																
	SW-JPB-4060	Construction of launching pit 6 (CHA610)	40%		Fri 29/12/23	Sat 26/10/24	-60.8 days	5										
809	SW-JPA-3040	TTA implementation at CHA780 (Pit 8), site clearance, road modification and site setup	100%	6 days	Tue 9/4/24	Mon 15/4/24	0 days						•					
810	SW-JPA-3050	Construction of receiving pit 8 (CHA780)	0%	180 days	Thu 6/6/24	Thu 9/1/25	-19.5 days	5										
	SW-JPA-3080	Plant mobilization and set-up at Launching pit 6 (CHA610)	0%		Sat 26/10/24	Fri 15/11/24	-60.8 days	-							тв	M 1		
	SW-JPA-3090	Excavation (170m) by Pipe Jacking method, PR=2m/d (1st driv			Fri 15/11/24	Fri 28/2/25	-60.8 days										SM 1	
813	SW-JPA-3110	Plant demobilization	0%	12 days	Sat 1/3/25	Fri 14/3/25	-60.8 days	5								ד 💼	BM 1	
814	SW-JPA-3120	Pipe Installation (170m x 3nos.) (12m/d for pipe)	0%	15 days	Sat 15/3/25	Tue 1/4/25	135.2 days	5										
815	SW-JPA-5220	Pressure Test (170m x 3nos.) Trenchless A3	0%	10 days	Wed 2/4/25	Mon 14/4/25	135.2 days	5										
							I											
	21/WSD/21	Task Sun	2	F		Inactive Milestone	۵		Duration-only			Start-only	6	_		rnal Milestone	\diamond	
	Programme (Ap May 2024		ect Summary		1	Inactive Summary	0		Manual Summary Roll	up		Finish-only		3		dline	+	
Juic. 11		Milestone Inac	ive Task			Manual Task			Manual Summary	-		External Tasks			Criti	cal		
									Page 1	4								
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D Activity ID Task Name		% Complete	Duration Start	Finish	Total Slack)23 Qtr 1	Otr 2	0++ 3	0	2024 Otr 1	0+-	2 0	tr 3 Qt	2025 tr 4 Qtr 1	0+- 3	Qtr 3
816 SW-JPA-5230	Construction of Valve Chamber 8 (CHA780)	0%	100 days Tue 15/4/25	Fri 15/8/25	135.2 days	s	Quri	Qur 2	QUIS	Qtr 4	Qtri	Qu			ur4 Quri	Qurz	Quis
817 SW-JPA-3130 818	Reinstatement of Receiving Pit (CHA780) Alignment A - Chuk Yuen Road - Trenchless A4 (CHA1080 Pit 10	0% 19%	36 days Tue 20/1/26 1114 days Mon 3/7/23	Fri 6/3/26 Wed 17/3/27	328.2 days 18.2 days			-									
819	to CHA1190 Pit 11) - 9th Drive Time allowed for CLP cable diversion at Chuk Yuen Road /		736 days Mon 3/7/23	Thu 11/12/25	11.2 days												
	Shatin Pass Road		,														
820 SW-JPA-4000	TTA implementation at CHA1080, site clearance, road modification and site setup	0%	7 days Thu 11/12/25	Fri 19/12/25	11.2 days												
821 SW-JPA-5300 822 SW-JPA-4040	UU Detection, Trial Pit Installation of instrumentation and monitoring device and	0% 0%	14 days Thu 18/12/25 14 days Tue 6/1/26	Tue 6/1/26 Thu 22/1/26	11.2 days 11.2 days	-											
	condition survey																
823 SW-JPA-4060 824 SW-JPA-4070	Construction of launching pit 10 (CHA1080) Construction of receiving pit 11 (CHA1190)	0% 0%	180 days Thu 22/1/26 180 days Mon 2/3/26	Mon 31/8/26 Tue 6/10/26	11.2 days 152.2 days	-											
825 SW-JPA-4080	Plant mobilization and set-up at launching pit	0%	12 days Mon 31/8/26	Sun 13/9/26	11.2 days	-											
826 SW-JPA-4090	Excavation (110m) by Pipe Jacking method, PR=3m/d (9th drive		37 days Sun 13/9/26	Thu 29/10/26	11.2 days	_											
827 SW-JPA-4110	Plant demobilization	0%	6 days Thu 29/10/26	Thu 5/11/26	11.2 days	_											
828 SW-JPA-4120 829 SW-JPA-5260	Pipe Installation (110m x 3nos.; 12m/d for pipe) Pressure Test (110m x 3nos.) Trenchless A4	0% 0%	10 days Thu 5/11/26 10 days Tue 17/11/26	Tue 17/11/26 Sat 28/11/26	11.2 days 11.2 days	-											
830 SW-JPA-5130	Reinstatement of Receiving Pit (CHA1190)	0%	36 days Sat 28/11/26	Tue 12/1/27	71.2 days	-											
831 SW-JPA-5270	Construction of Valve Chamber 11 (CHA1080)	0%	89 days Sat 28/11/26	Wed 17/3/27	, 11.2 days	-											
332	Alignment A - Chuk Yuen Road - Open Trench	8%	L208.8 day: Tue 13/6/23	Fri 25/6/27	-61.6 days	5		_									
833	Alignment A - Chuk Yuen Road - Open Trench between A2 and A3 (CHA200 to CHA610)	4%	1040.8 Thu 4/1/24 days	Fri 25/6/27	-61.6 days	5											
334 21.PRW.PO5.	Coordination with SLG, ULG, Stakeholders and Obtain Approval	100%	24 days Thu 4/1/24	Wed 31/1/24	0 days												
335 SW-OTA-2000	TTA implementation, site clearance, road modification and site	100%	6 days Thu 1/2/24	Wed 7/2/24	0 days	-											
836 SW-OTA-2190	setup Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	14%	133 days Tue 9/4/24	Fri 13/9/24	-68.6 days	5								Open	Trench Gang	1	
837 SW-OTA-218(reinstatement, (40m long)~CHA190 to CHA230 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 days Fri 13/9/24	Mon 25/11/24	-68.6 days	5									Open Trenc	h Gang 1	
838 SW-OTA-217(reinstatement, (20m long)~CHA230 to CHA250 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	150 days Wed 19/11/25	Fri 22/5/26	265.4 days	s											
839 SW-OTA-216(reinstatement, (50m long)~CHA250 to CHA300 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	100 days Sat 10/10/26	Thu 11/2/27	-68.6 days	5											
840 SW-OTA-2150	reinstatement, (40m long)~CHA300 to CHA340 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	100 days Thu 11/2/27	Mon 14/6/27	-68.6 days	5											
341 SW-OTA-2140	reinstatement, (40m long)~CHA340 to CHA380 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days Sat 19/10/24	Thu 13/3/25	621.6 days									_		Open Tre	anch Gan
	reinstatement, (40m long)~CHA380 to CHA420															openne	anen Gun
842 SW-OTA-2145	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (30m long)~CHA420 to CHA450	0%	90 days Thu 23/10/25	Mon 9/2/26	347.4 days									-			
343 SW-OTA-213(Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (40m long)~CHA450 to CHA490	0%	120 days Tue 28/5/24	Sat 19/10/24	621.6 days	s								0	pen Trench Ga	ing 2	
844 SW-OTA-212(Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (50m long)~CHA490 to CHA540	0%	150 days Fri 20/3/26	Thu 17/9/26	-60.6 days	5											
845 SW-OTA-211(Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (20m long)~CHA540 to CHA560	0%	60 days Thu 17/9/26	Mon 30/11/26	-60.6 days	5											
846 SW-OTA-2100	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (50m long)~CHA560 to CHA610	0%	150 days Mon 30/11/26	Thu 3/6/27	-60.6 days	5											
347 SW-OTA-6200	Pressure Test (400m) Open Trench A2 to A3	0%	10 days Mon 14/6/27	Fri 25/6/27	-68.6 days	5											
348 SW-OTA-6300	Pressure Test (300m) Open Trench A3 to A4	0%	10 days Mon 14/6/27	Fri 25/6/27	-68.6 days												
349	Alignment A - Chuk Yuen Road - Open Trench between A3 and A4 (CHA780 to CHA1060)	13%	1012 days Tue 13/6/23	Tue 27/10/26	135.2 days	S											
350 21.PRW.PO5.	Coordination with SLG, ULG, Stakeholders and Obtain Approval	100%	64 days Tue 13/6/23	Mon 28/8/23	0 days												
51 SW-OTA-102(TTA implementation, site clearance, road modification and site setup	100%	6 days Wed 20/9/23	Tue 26/9/23	0 days												
352 SW-OTA-3080	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	150 days Fri 15/8/25	Wed 11/2/26	135.2 days	s											
353 SW-OTA-307(reinstatement, (50m long)~CHA780 to CHA830 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	150 days Wed 11/2/26	Sat 15/8/26	135.2 days	s											
354 SW-OTA-306(reinstatement, (50m long)~CHA830 to CHA880 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 days Sat 15/8/26	Tue 27/10/26	135.2 days	s											
355 SW-OTA-305(reinstatement, (20m long)~CHA880 to CHA900 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	23%	248 days Wed 21/2/24	Sat 14/12/24	41.2 days	-									Open Tre	nch Gang	3
356 SW-OTA-303(reinstatement, (80m long)~CH900 to CH980 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days Sat 14/12/24	Fri 16/5/25	, 41.2 days											0	pen Tren
857 SW-OTA-3020	reinstatement, (40m long)~CH980 to CH1020 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days Fri 16/5/25	Mon 6/10/25	41.2 days												
	reinstatement, (40m long)~CH1020 to CH1060																
858 SW-OTA-301(Sheet piling, Excavation, ELS, Pipe Laying, Backfiling & Road reinstatement, (20m long)~CH1060 to CH1080	0%	60 days Mon 6/10/25	Tue 16/12/25	41.2 days												
859 SW-OTA-3000	Pressure Test (180m) Open Trench A3 to A4	0%	10 days Tue 16/12/25	Tue 30/12/25	375.2 days	_			-								
860	Alignment A - Shatin Pass Road Alignment A - Shatin Pass Road - Trenchless		L057.8 day: Fri 15/9/23 L057.8 day: Fri 15/9/23	Tue 30/3/27 Tue 30/3/27	10.4 days 10.4 days	_			r •								
862	Alignment A - Shatin Pass Road - Trenchless C1 (CH1210 to CH16			Tue 30/3/27	10.4 days												
863 SW-JPA-5000	TTA implementation at CH1210, site clearance, road	100%	1 day Fri 15/9/23	Fri 15/9/23	0 days				Ī								
864 SW-JPA-5310	modification and site setup Maximum allowed time for CLP's Cable diversion at junction of	32%	550.8 days Fri 22/9/23	Mon 28/7/25	10.4 days	-											
	Shatin Pass Road / Chuk Yuen Road																
oject: 21/WSD/21	Task Summa	2		Inactive Milestone	\$		Duration-only				Start-only		C		External Milestor	e 🔶	
evised Programme (Apr 2024) ate: 1 May 2024		Summary		Inactive Summary			Manual Summ	, ,			Finish-only		3		Deadline	÷	
, ·	Milestone Milestone	e Task		Manual Task			Manual Summ	arv			External Tas	(S			Critical		



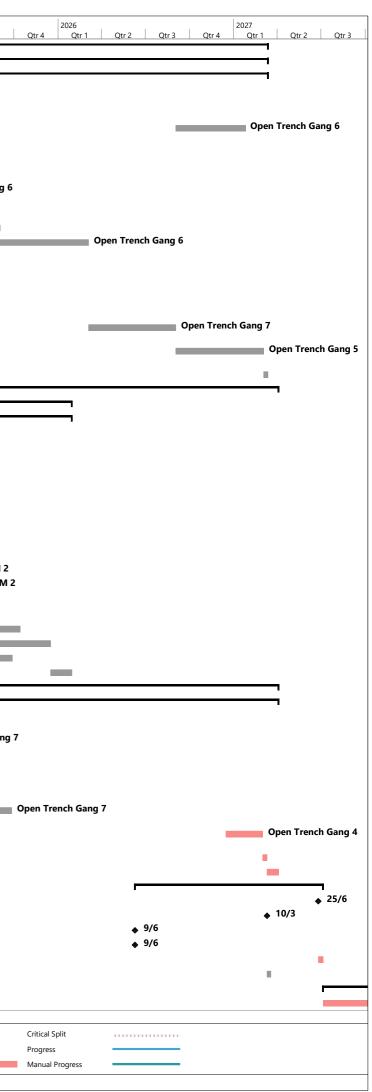
865 S	W-JPA-5050	e Installation of instrumentation and monitoring device and condition survey	% Complete 100%	Duration 14 days	Start Sat 16/9/23	Finish Wed 4/10/23	Total Slack Qtr 4 0 days	2023 Qtr 1 Qtr 2	Qtr 3 Qtr 4	2024 Qtr 1	Qtr 2 Qt	ttr 3 Qtr 4	2025 Qtr 1 Q	Qtr 2 Qtr 3
866 5		6		14 days	Sat 16/9/23	Wed 4/10/23					· · · · · · · · · · · · · · · · · · ·			
	W/- IPA-5050	condition survey												
	VV-JFA-JUJU	Construction of launching pit (CHB1210)	0%	150 davs	Mon 28/7/25	Fri 23/1/26	10.4 days							
	SW-JPA-5055	TTA implementation at CH1390, site clearance, road	0%		Thu 3/7/25	Wed 9/7/25	95.4 days							
		modification and site setup												_
	W-JPA-5060	Construction of intermediate pit (CHB1390)	0%		Mon 28/7/25	Fri 23/1/26	79.4 days							
869 5	SW-JPA-5065	TTA implementation at CH1600, site clearance, road modification and site setup	0%	6 days	Thu 3/7/25	Wed 9/7/25	180.4 days							
870 S	W-JPA-5070	Construction of receiving pit (CHB1600)	0%	150 days	Mon 28/7/25	Fri 23/1/26	164.4 days							
871 5	W-JPA-5080	Plant mobilization and set-up at Launching pit (CH1210) (TBM	2 0%	12 days	Fri 23/1/26	Fri 6/2/26	10.4 days							
872 5	W-JPA-5090	Excavation (170m) by Pipe Jacking method 1st Section, PR=3m	/ 0%	57 days	Fri 6/2/26	Mon 20/4/26	10.4 days							
873 5	W-JPA-5110	Plant demobilization	0%		Mon 20/4/26	Mon 27/4/26	10.4 days							
	SW-JPA-5115	Plant mobilization and set-up at Intermediate pit (CH1390)	0%		Mon 27/4/26	Tue 12/5/26	10.4 days							
	W-JPA-5135	Excavation (200m) by Pipe Jacking method 2nd Section, PR=3r			Tue 12/5/26	Fri 31/7/26	10.4 days							
	W-JPA-5110	Plant demobilization	0%		Sat 1/8/26	Fri 7/8/26	10.4 days							
	SW-JPA-5120 SW-JPA-5250	Pipe Installation (380m x 2nos.; 12m/d for pipe)	0%		Sat 8/8/26	Mon 14/9/26	10.4 days							
	SW-JPA-5280	Pressure Test (380m) Trenchless C1 Construction of Valve Chamber (CH1210)	0% 0%		Mon 14/9/26 Fri 25/9/26	Fri 25/9/26 Wed 13/1/27	10.4 days 10.4 days							
	W-JPA-5285	Construction of Valve Chamber (CH1220)	0%		Fri 25/9/26	Wed 13/1/27	10.4 days							
	W-JPA-5360	Connection Works	0%		Wed 13/1/27	Sat 13/2/27	10.4 days							
882 5	W-JPA-5190	Reinstatement of Launching Pit (CH1210), intermediate pit	0%	36 days	Sat 13/2/27	Tue 30/3/27	10.4 days							
		(CH1390) and receiving pit (CH1600)		-										
883		Alignment A - Shatin Pass Road - Open Trench	0%		Mon 2/2/26	Fri 29/5/26	261 days							
884		Alignment A - Shatin Pass Road - Open Trench A4 to C1 (CH1190 to CH1210) to CP	0%	93 days	Mon 2/2/26	Fri 29/5/26	261 days							
885 2	1.PRW.PO5.	Implementation of TTA	0%	1 day	Mon 2/2/26	Mon 2/2/26	261 days							
886 5	W-OTA-1000	Trial Pit works at CH1190 and CH1210	0%	12 days	Tue 3/2/26	Mon 16/2/26	261 days							
887 5	W-OTA-5000	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 days	Fri 20/2/26	Tue 5/5/26	261 days							
888 5	W-OTA-617(reinstatement, (20m long)~CH1190 to CH1210 Pressure Test (20m) Open Trench A4 to C1	0%	10 dave	Tue 5/5/26	Sat 16/5/26	261 days							
	W-OTA-617(Backfilling & Road Reinstatement A4 to C1	0%		Sat 16/5/26	Fri 29/5/26	261 days							
890		Alignment A - Tsz Wan Shan Road			Thu 3/8/23	Wed 14/4/27	-1.2 days							
891		Alignment A - Tsz Wan Shan Road - Open Trench			Thu 3/8/23	Wed 14/4/27	-1.2 days							
892		Alignment A - Tsz Wan Shan Road - Open Trench C1 to CP	29%	1106.4	Thu 3/8/23	Wed 14/4/27	-1.2 days							
002		(CH1610 to CH1800)	100%	days	Thu 2/0/22	Man 7/0/22	0 days		-					
	21.PRW.PO5. 5W-OTA-608(Coordinate with SLG, ULG, Stakeholders and Obtain Approval			Thu 3/8/23	Mon 7/8/23	0 days							Оре
894 5		Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (40m long)~CH1610 to CH1650	0%	TTO UGA2	Thu 27/2/25	Thu 24/7/25	434.2 days							- Ope
895 5	W-OTA-607(Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days	Thu 3/10/24	Wed 26/2/25	434.2 days						Open 7	Trench Gang 4
806 6	W-OTA-6060	reinstatement, (40m long)~CH1650 to CH1690	31%	187 dave	Tue 20/2/24	Thu 3/10/24	434.2 days					Open 1	Trench Gang 4	
50 5		Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (68m long)~CH1690 to CH1758	31%	TO1 ngà2	Tue 20/2/24	1110 3/ 10/ 24	-34.2 Udys					- open i	. chen Gung 4	
897 5	W-OTA-6050	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	100%	120 days	Fri 15/9/23	Fri 9/2/24	0 days			Open T	rench Gang	4		
898	W-OTA-609(reinstatement, (24m long)~CH1758 to CH1782 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 davs	Mon 4/1/27	Wed 17/3/27	-1.2 days							
		reinstatement, (18m long)~CH1782 to CH1800 & CP	070	oo uays			1.2 0033							
	W-OTA-617(Pressure Test (190m) Open Trench C1 to CP	0%		Wed 17/3/27	Thu 1/4/27	-1.2 days							
	W-OTA-618(Backfilling & Road Reinstatement C1 to CP	0%		Thu 1/4/27	Wed 14/4/27	-1.2 days							
901	A	lignment B			Mon 3/7/23	Mon 14/6/27	-51.6 days	r	l					
902		Alignment B - Chuk Yuen Road Alignment B - Chuk Yuen Road - Trenchless			Sun 1/10/23	Mon 14/6/27	-51.6 days							
903 904		Alignment B - Chuk Yuen Road - Trenchless B1 (CHB70 Pit 2 to	0% 0%		Mon 8/7/24 Sat 22/8/26	Mon 12/4/27 Sat 7/11/26	0.4 days 0.4 days							
		CHB0) - 8th Drive	076	ov uays	5at 22/ 6/ 20	5at 7/11/20	o.v days							
905 5	W-JPB-1080	Plant mobilization and set-up at Launching pit 2 (CHB70)	0%	12 days	Sat 22/8/26	Fri 4/9/26	0.4 days							
	W-JPB-1090	Excavation (70m) by Pipe Jacking method, PR=3m/d (8th drive			Sat 5/9/26	Mon 5/10/26	0.4 days							
	SW-JPB-1110	Plant demobilization	0%		Mon 5/10/26	Mon 12/10/26	0.4 days							
	W-JPB-1120	Pipe Installation (70m) (6m/d for pipe)	0%		Mon 12/10/26		0.4 days							
	SW-JPB-6160	Pressure Test (80m) Trenchless B1 Alignment B - Chuk Yuan Road - Tranchless B2 (CHB70 Pit 2 to	0%		Tue 27/10/26	Sat 7/11/26 Mon 12/4/27	0.4 days							
910		Alignment B - Chuk Yuen Road - Trenchless B2 (CHB70 Pit 2 to CHB190 Pit 3) - 6th Drive	0%	324 uays	Wed 11/3/26	1011 12/4/2/	-68.6 days							
911 5	W-JPB-2080	Plant mobilization and set-up at Launching pit 2 (CHB70)	0%	12 days	Wed 11/3/26	Wed 25/3/26	-68.6 days							
912 5	W-JPB-2090	Excavation (120m) by Pipe Jacking method, PR=3m/d (6th dri	/€ 0%	40 days	Wed 25/3/26	Thu 14/5/26	-68.6 days							
	W-JPB-2110	Plant demobilization	0%		Thu 14/5/26	Thu 21/5/26	-68.6 days							
	W-JPB-2120	Pipe Installation (110m; 6m/d for pipe)	0%		Thu 21/5/26	Sat 13/6/26	-68.6 days							
	W-JPB-2130	Pressure Test (110m) Trenchless B2	0%		Sat 13/6/26	Thu 25/6/26	-68.6 days							
	W-JPB-6170	Construction of Valve Chamber 2A (CH70) Alignment B	0%		Sat 7/11/26	Thu 25/2/27	0.4 days							
	SW-JPB-1130	Reinstatement of Receiving Pit (CH190) Alignment B - Chuk Yuen Road - Trenchless B3 (CHB190 Pit 3 to	0%		Thu 25/2/27 Mon 8/7/24	Mon 12/4/27	0.4 days							
918		Alignment B - Chuk Yuen Road - Trenchless B3 (CHB190 Pit 3 to CHB420 Pit 5) - 3rd Drive	0%	546.2 days	WIOII 8/7/24	Tue 5/5/26	50.6 days							
919 5	W-JPB-3000	TTA implementation at CH190, site clearance, road	0%	6 days	Mon 8/7/24	Sat 13/7/24	92.2 days							
020	W/ IDA E220	modification and site setup	00/	11 de	Sat 0/11/24	Man 25/11/24	0 davra					_		
	W-JPA-5320	UU Detection, Trial Pit	0%		Sat 9/11/24	Mon 25/11/24	0 days							
921 5	SW-JPB-3040	Installation of instrumentation and monitoring device and condition survey	0%	14 days	Sat 9/11/24	Mon 25/11/24	0 days							
	1	Task Sum	many	-		Inactive Milestone	<u> </u>	Duration-only	_	Start-only	E		ternal Milestone	\$
	21/0/21	i dok Sum	iidi y		1		~							~
Project: 2 Revised F		Split	ct Summary			Inactive Summany		Manual Summan/ Rollup		Finish-only		De 1	adline	*
Revised I	Programme (Apr 2024) Nay 2024		ect Summary ive Task			Inactive Summary Manual Task		Manual Summary Rollup Manual Summary	·	Finish-only External Tasks	3		eadline	+
Revised I	Programme (Apr 2024)		-		1	-	U		i					•



	SW-JPB-3060 SW-JPB-3055		of launching pit 3 (CH190) entation at CH420, site clearance, road	0%		Sat 5/10/24	Mon 7/7/25 Sat 12/10/24	-68.6 days 42.8 days								н Т			-
024			and site setup	00/	190 day	5 Thu 2/1/25	Map 11/9/25	24 C davis											
	SW-JPB-3050 SW-JPB-3080		of receiving pit 5 (CH410) ration and set-up at Launching pit 3	0%		Tue 8/7/25	Mon 11/8/25 Mon 21/7/25	-24.6 days -68.6 days											ТВМ
	SW-JPB-3090		220m) by Pipe Jacking method, PR=3m/d (3			Mon 21/7/25	Thu 16/10/25	-68.6 days											
	SW-JPB-3110	Plant demob		0%	6 days		Thu 23/10/25	-68.6 days											
928	SW-JPB-3120	Pipe Installat	tion (130m) (6m/d for pipe)	0%	22 days	Thu 23/10/25	Wed 19/11/25	-60.6 days											
929	SW-JPB-6180	Pressure Test	t (130m)	0%	10 days	Wed 19/11/25	Mon 1/12/25	-60.6 days											
930	SW-JPB-6240	Construction	of Valve Chamber 5 (CH410)	0%	89 days	Mon 1/12/25	Fri 20/3/26	-60.6 days											
931	SW-JPB-3130	Reinstateme	nt of Receiving Pit & Launching Pit	0%	36 days	Fri 20/3/26	Tue 5/5/26	273.4 days											
932		Alignment B - (CHB740 Pit 7) -	Chuk Yuen Road - Trenchless B4 (CHB610 P	Pit 6 to 0%	442 day	5 Fri 2/8/24	Tue 20/1/26	0 days											
933	SW-JPB-4040	-	entation at CH760, site clearance, road	0%	6 days	Fri 2/8/24	Fri 9/8/24	0 days							1.1				
			and site setup																
	SW-JPB-4050		of receiving pit 7 (CHB760)	0%		5 Fri 9/8/24	Fri 14/3/25	0 days										CDA4 1	
	SW-JPB-4070		ation and set-up at Launching pit 6 (CHB61			Sat 15/3/25	Fri 28/3/25	-60.8 days										IBM 1	TBM 1
	SW-JPB-4080	Excavation (1 Plant demob	130m) by Pipe Jacking method, PR=3m/d (2 ilization			Sat 29/3/25 Fri 20/6/25	Fri 20/6/25	-60.8 days									_		TBM 1
	SW-JPB-4100 SW-JPB-4110			0%			Fri 27/6/25	-60.8 days 328.2 days											
	SW-JPB-6190	Pressure Test	tion (130m x 2nos.) (6m/d for pipe)	0%		Fri 27/6/25 Wed 23/7/25	Wed 23/7/25 Mon 4/8/25	328.2 days 328.2 days										I	Т
	SW-JPB-6195		of Air Valve Chamber 7 (CHB760)	0%		Mon 4/8/25	Tue 18/11/25	320.2 days 380.2 days											- 14
	SW-JPB-4120		nt of Receiving Pit (CHB760)	0%		Tue 18/11/25	Fri 2/1/26	380.2 days											
	SW-JPB-6200		of Valve Chamber 6 (CHB610)	0%		Mon 4/8/25	Sat 6/12/25	328.2 days											
	SW-JPB-6140		nt of Launching Pit (CH610) after Pipe Insta			Sat 6/12/25	Tue 20/1/26	328.2 days											
		at Alignment	A Trenchless A3		-														
944		Alignment B - (CHB1100 Pit 11	Chuk Yuen Road - Trenchless B5 (CHB990 P	Pit 9 to 0%	466.6 day	/s Tue 24/12/24	Sat 18/7/26	-27 days											
945	SW-JPB-5000		entation at CHB990, site clearance, road	0%	1 day	Tue 24/12/24	Tue 24/12/24	-27 days									1		
			and site setup																
	SW-JPA-5340	UU Detectio		0%		Fri 27/12/24	Mon 13/1/25	-27 days									•		
947	SW-JPB-5040	Installation of condition sur	of instrumentation and monitoring device a	and 0%	14 days	Fri 27/12/24	Mon 13/1/25	-27 days											
948	SW-JPB-5060		n of launching pit 9 (CHB990)	0%	180 days	5 Tue 14/1/25	Thu 21/8/25	-27 days										_	
949	SW-JPB-5045	TTA impleme	entation at CH1180, site clearance, road	0%	6 days		Wed 26/3/25	-26.8 days											
			and site setup					-											
	SW-JPB-5050		n of receiving pit 11 (CHB1180)	0%		5 Thu 27/3/25	Sat 1/11/25	-27 days											
	SW-JPB-5080		zation and set-up at Launching pit 9	0%		Thu 23/10/25	Fri 7/11/25	-68.6 days											
	SW-JPB-5090		110m) by Pipe Jacking method, PR=3m/d (4			Fri 7/11/25	Sat 20/12/25	-68.6 days											
	SW-JPB-5110 SW-JPB-5120	Plant demok		0%		Sat 20/12/25	Tue 30/12/25	-68.6 days 218.4 days											
	SW-JPB-5120 SW-JPB-5130		tion (110m x 2nos.; 6m/d for pipe) ent of Receiving Pit (CHB1170)	0%		Tue 30/12/25 Fri 13/2/26	Mon 2/2/26 Mon 30/3/26	218.4 days 271.4 days											
	SW-JPB-6150		ent of Launching Pit (CHB990)	0%		Fri 5/6/26	Sat 18/7/26	218.4 days											
	SW-JPB-6210		st (110m) Trenchless B5	0%		Mon 2/2/26	Fri 13/2/26	218.4 days											
	SW-JPB-6220		n of Valve Chamber 9 (CHB990)	0%		Fri 13/2/26	Fri 5/6/26	218.4 days											
959		Alignment B - Chu	uk Yuen Road - Open Trench	12%	L106.8 da	y:Sun 1/10/23	Mon 14/6/27	-51.6 days				·							
960		Alignment B - (Chuk Yuen Road - Open Trench between B	3 and 0%	913.2 day	/s Tue 28/5/24	Mon 14/6/27	-51.6 days											
		B4 (CH420 to Cl																	
961	SW-OTB-3090		Excavation, ELS, Pipe Laying, Backfilling & R nt, (30m long)~CHB420 to CHB450	Road 0%	90 days	Thu 23/10/25	Mon 9/2/26	347.4 days											
962	SW-OTB-3080		Excavation, ELS, Pipe Laying, Backfilling & R	Road 0%	120 days	5 Tue 28/5/24	Sat 19/10/24	741.6 days								Ope	en Trench Gang	2	
0.65			nt, (40m long)~CHB450 to CHB490		450.1	F : 00 /0 /	TI += /0 /												
963	SW-OTB-307C		Excavation, ELS, Pipe Laying, Backfilling & R nt, (50m long)~CHB490 to CHB540	Road 0%	150 day	5 Fri 20/3/26	Thu 17/9/26	-51.6 days											
964	SW-OTB-3010		Excavation, ELS, Pipe Laying, Backfilling & R	Road 0%	60 days	Thu 17/9/26	Mon 30/11/26	-51.6 days											
		reinstatemer	nt, (20m long)~CHB540 to CHB560																
965	SW-OTB-3020		Excavation, ELS, Pipe Laying, Backfilling & R nt, (50m long)~CHB560 to CHB610	Road 0%	150 day	5 Mon 30/11/26	Thu 3/6/27	-51.6 days											
966	SW-OTB-8110		t (190m) Open Trench B3 to B4	0%	8 days	Thu 3/6/27	Mon 14/6/27	-51.6 days											
967			Chuk Yuen Road - Open Trench B4 to B5 (C			/s Sun 1/10/23	Mon 29/6/26	227.4 days				· · · · · ·		_					
		to CH990)																	
	21.PRW.PO5.	TTA impleme		100%		Sun 1/10/23	Fri 20/10/23	0 days											
969	SW-OTB-4110	1 .	Excavation, ELS, Pipe Laying, Backfilling & R nt, (20m long)~CH770 to CH790	Road 0%	60 days	Fri 6/2/26	Thu 23/4/26	227.4 days											
970	SW-OTB-4100		Excavation, ELS, Pipe Laying, Backfilling & R	Road 0%	180 day	5 Tue 8/7/25	Fri 6/2/26	227.4 days											
		reinstatemer	nt, (60m long)~CH790 to CH850																
971	SW-OTB-4090		Excavation, ELS, Pipe Laying, Backfilling & R nt, (60m long)~CH850 to CH910	Road 0%	180 days	5 Mon 25/11/24	Mon 7/7/25	227.4 days											Оре
972	SW-OTB-4080		rt, (60m long) CH850 to CH910 Excavation, ELS, Pipe Laying, Backfilling & R	Road 6%	186 day	Wed 17/4/24	Mon 25/11/24	227.4 days									Open Trench G	iang 5	
			nt, (48m long)~CH910 to CH958	0,0	_00 ddy.													5-	
973	SW-OTB-407C		Excavation, ELS, Pipe Laying, Backfilling & R	Road 100%	143.8 day	/s Sat 21/10/23	Tue 16/4/24	0 days						Open T	rench Ga	ang 5[101	[%]		
974	SW-OTB-4060		nt, (15m long)~CH958 to CH973 Excavation, ELS, Pipe Laying, Backfilling & R	Road 0%	AE dave	Thu 23/4/26	Wed 17/6/26	227.4 days											
	3vv-U1D-4U0L		Excavation, ELS, Pipe Laying, Backfilling & R nt, (15m long)~CH973 to CH990	Nudu U%	45 days	111u 23/4/20	weu 1//0/20	227.4 days											
5/4	SW-OTB-8130		t (220m) Open Trench B4 to B5	0%	10 days	Wed 17/6/26	Mon 29/6/26	227.4 days											
975	21/WSD/21		Task		r	1	Inactive Milestone	\diamond	Duration-				Start-only	C			xternal Milestone	\diamond	
oject:			Task Split	,	ry 🕻	1	Inactive Milestone Inactive Summary	♦		only ummary Rollu	p		Start-only Finish-only	C 3			xternal Milestone leadline	♦	

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D	Activity ID Task Nar	ne	% Complete	Duration Start	Finish	Total Slack	201	23 Qtr 1 Qtr 2	Qtr 3 Qtr 4	2024 Qtr 1	Qtr 2 Qtr 3	2025 Otr 4 Otr 1	Qtr 2 Qtr 3
976		Alignment B - Lung Fung Street		L110.1 day: Mon 3/7/23	Fri 12/3/27	22.1 days				q			
977		Alignment B - Lung Fung Street - Open Trench	24%	L110.1 day: Mon 3/7/23	Fri 12/3/27	22.1 days			I				
978		Alignment B - Lung Fung Street - Open Trench B5 to D1 (CH11 to CH1410)	80 24%	1110.1 Mon 3/7/23 days	Fri 12/3/27	22.1 days			r				
979	21.PRW.PO5.	TTA implementation	100%	13 days Mon 3/7/23	Mon 17/7/23	0 days							
980	SW-CCEN-201	Work area occupied by CSCE stage 1a		147.5 days Tue 2/1/24	Sat 29/6/24	, 23.7 days	-		_				
981	SW-OTB-5010	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days Wed 2/9/26	Mon 25/1/27	60.1 days							
		reinstatement, (40m long)~CH1180 to CH1200		150 1 10/7/01			-						
	SW-CCEN-202	Work area occupied by CSCE stage 1b	0%	152 days Wed 3/7/24	Tue 31/12/24	22.1 days						Open Trench Gang 6	
983	SW-OTB-5015	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (20m long)~CH1200 to CH1230	0%	60 days Sat 29/6/24	Mon 9/9/24	205.7 days						open Trench dang o	
984	SW-OTB-5020	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 days Tue 31/12/2	4 Sat 15/3/25	112.1 days	-						Open Trench Gang
		reinstatement, (20m long)~CH1230 to CH1250	00/	450 1 7 24/42/2		22.4.1							
	SW-CCEN-203 SW-CCEN-204	Work area occupied by CSCE stage 2 Work area occupied by CSCE stage 3	0%	150 days Tue 31/12/2		22.1 days 22.1 days	-						
	SW-OTB-5030	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	50 days Mon 7/7/25 150 days Tue 2/9/25	Tue 2/9/25 Wed 4/3/26	22.1 days 22.1 days	-						
507	500 010 5050	reinstatement, (30m long)~CH1250 to CH1280	070	150 days 100 2/5/25	1100 475720	22.1 0035							
988	SW-OTB-5000	Sheet piling, excavationg, Exc., ELS, Pipe Laying, Backfilling &	61%	113 days Tue 23/1/24	Tue 11/6/24	850.2 days					Open Tr	ench Gang 6	
080	SW-OTB-5010	Road reinstatement, (20m long)~CHB1280 to CHB1300 WSD's removal of AC pipes (CHB1280 - CHB1300)	90%	21 days Tue 9/4/24	Fri 3/5/24	0 days				_			
	SW-OTB-5040	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road		157 days Mon 3/7/23		0 days	-			Open Trend	h Gang 6		
550	500 010 5040	reinstatement, (12m long)~CH1300 to CH1312	10070	157 days Wion 5/7/25	1011 0/ 1/24	0 0033				o pen trent			
991	SW-OTB-5045	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	150 days Wed 4/3/26	Wed 2/9/26	22.1 days							
992	SW-OTB-505C	reinstatement, (48m long)~CH1312 to CH1360 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	150 days Wed 2/9/26	Wed 3/3/27	22.1 days							
552		reinstatement, (52m long)~CH1360 to CH1412	070	100 days Web 2/5/20	wcu 5/5/2/	22.1 udys							
993	SW-OTB-8190	Pressure Test (230m) Open Trench B5 to D1	0%	8 days Wed 3/3/27	Fri 12/3/27	22.1 days							
994		Alignment B - Sheung Fung Street		L095.1 day: Tue 8/8/23	Sat 3/4/27	6.1 days			1				
995		Alignment B - Sheung Fung Street - Trenchless		423.2 days Sun 1/9/24	Thu 29/1/26	157.6 days					l r		
996		Alignment B - Sheung Fung Street - Trenchless D1 (CH1410 to CH1550) to CP	0%	423.2 days Sun 1/9/24	Thu 29/1/26	157.6 days					l l		
997	SW-JPB-6000	TTA implementation at CH1410, site clearance, road	0%	1 day Sun 1/9/24	Sun 1/9/24	193 days							
		modification and site setup											
	SW-JPA-5350	UU Detection, Trial Pit	0%	7 days Mon 2/9/24	Mon 9/9/24	163.6 days	-						
999	SW-JPB-6040	Installation of instrumentation and monitoring device and condition survey	0%	14 days Mon 2/9/24	Sun 15/9/24	193 days							
1000	SW-JPB-6050	Construction of launching pit (CH1410)	0%	150 days Mon 16/9/2	4 Wed 12/2/25	193 days							
1001	SW-JPB-6060	TTA implementation at CH1550, site clearance, road	0%	6 days Thu 6/2/25	Wed 12/2/25	158.6 days	-						
1002	SW-JPB-6070	modification and site setup	0%	150 days Thu 12/2/2	Cat 12/7/25	102 days	-						
	SW-JPB-6080	Construction of receiving pit (CH1540) Plant mobilization and set-up at Launching pit (TBM 2)	0%	150 days Thu 13/2/25 21 days Thu 13/2/25		193 days 272.8 days						- 1	BM 2
	SW-JPB-6090	Excavation (120m) by Pipe Jacking method, PR=3m/d	0%	40 days Mon 26/5/2		161.4 days	-						TBM
	SW-JPB-6110	Plant demobilization	0%	14 days Sun 13/7/25		193 days	-						TBI
	SW-JPB-6120	Pipe Installation (120m) (6m/d for pipe)	0%	20 days Mon 28/7/2		356.6 days	-						
	SW-JPB-6230	Pressure Test (120m) Trenchless D1	0%	10 days Wed 20/8/2		, 356.6 days	-						
1008	SW-JPB-6250	Reinstatement of Launching Pit (CH1410)	0%	36 days Mon 1/9/25	Tue 14/10/25	445.6 days							1
1009	SW-JPB-6260	Construction of Valve Chamber (CH1540)	0%	89 days Mon 1/9/25	Tue 16/12/25	356.6 days							1
1010	SW-JPB-6270	Connection Works	0%	24 days Mon 1/9/25	Sat 27/9/25	421.6 days							1
1011	SW-JPB-6130	Reinstatement of Receiving Pit (CH1540)	0%	36 days Tue 16/12/2	5 Thu 29/1/26	356.6 days							
1012		Alignment B - Sheung Fung Street - Open Trench	30%	1095.1 day: Tue 8/8/23	Sat 3/4/27	6.1 days			-				
1013		Alignment B - Sheung Fung Street - Open Trench D1 to CP (CH1550 to CH1730)	30%	1095.1 Tue 8/8/23 days	Sat 3/4/27	6.1 days			-				
1014	21.PRW.PO5.	Coordination with SLG, ULG, Stakeholders and Obtain Appro	ova 100%	4 days Tue 8/8/23	Fri 11/8/23	0 days							
1015	SW-OTB-8050	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	d 0%	180 days Wed 21/8/2	4 Thu 27/3/25	459.2 days	-						Open Trench Ga
101-		reinstatement (60m long)~CH1550 to CH1610	1 4000	150 davia 6 140 /0/5		450.2						Opon Trongh Come 7	
1016	SW-OTB-8060	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatementt, (50m long)~CH1610 to CH1662	d 40%	158 days Sat 10/2/24	Wed 21/8/24	459.2 days						Open Trench Gang 7	
1017	SW-OTB-8170	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	d 100%	150 days Sat 12/8/23	Fri 9/2/24	0 days	1			Open Ti	rench Gang 7		
1010		reinstatementt, (50m long)~CH1662 to CH1674	J 001	150 days 5- 20/2/25		450.0							
1018	SW-OTB-8175	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatementt, (50m long)~CH1674 to CH1710	d 0%	150 days Fri 28/3/25	Fri 26/9/25	459.2 days	1						
1019	SW-OTB-8080	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	d 0%	60 days Tue 15/12/2	6 Mon 1/3/27	6.1 days	1						
1000		reinstatementt, (20m long)~CH1710 to CH1730	00/	0 day	MI-1 40/0/07	C 4 1							
	SW-OTB-8170	Pressure Test (180m) Open Trench D1 to CP	0%	8 days Mon 1/3/27		6.1 days	-						
1021	SW-OTB-8180	Backfilling and Road Reinstatement D1 to CP Test & Commissioning and Connection	0% 0%	18 days Wed 10/3/2 319.8 days Tue 9/6/26	7 Sat 3/4/27 Mon 5/7/27	6.1 days -68.6 days							
	SW-CPA-2080	Alignment A Ready for Connection with PAB	0%	0 days Fri 25/6/27	Fri 25/6/27	-68.6 days							
	SW-CPB-2090	Alignment B Ready for Connection with PAB	0%	0 days Wed 10/3/2		17.1 days	-						
	SW-CPA-2090	PAB Water Main Ready for Connection with Alignment A	0%	0 days Tue 9/6/26	Tue 9/6/26	244.2 days	-						
	SW-CPB-2100	PAB Water Main Ready for Connection with Alignment B	0%	0 days Tue 9/6/26	Tue 9/6/26	, 244.2 days	-						
1027	SW-TC-2060	Swabbing & Pressure Test for Alignment A	0%	7 days Fri 25/6/27	Mon 5/7/27	-68.6 days							
1028	SW-TC-2070	Swabbing & Pressure Test for Alignment B	0%	7 days Wed 10/3/2	7 Thu 18/3/27	17.1 days	1						
1029		Establishment Period	0%	299.2 days Mon 5/7/27	Tue 4/7/28	0 days							
1030	21.EST.GEN.1	Establishment Works	0%	365 days Mon 5/7/27	Tue 4/7/28	0 days							
	: 21/WSD/21		mmary		Inactive Milestone	_		Duration-only	_	Start-only	C	External Milestone	•
	d Programme (Apr 2024) May 2024		oject Summary	y I	Inactive Summary			Manual Summary Rollu	p	Finish-only	3	Deadline	+
	,	Milestone	ctive Task		Manual Task		N	Manual Summary		External Tasks		Critical	

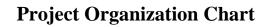


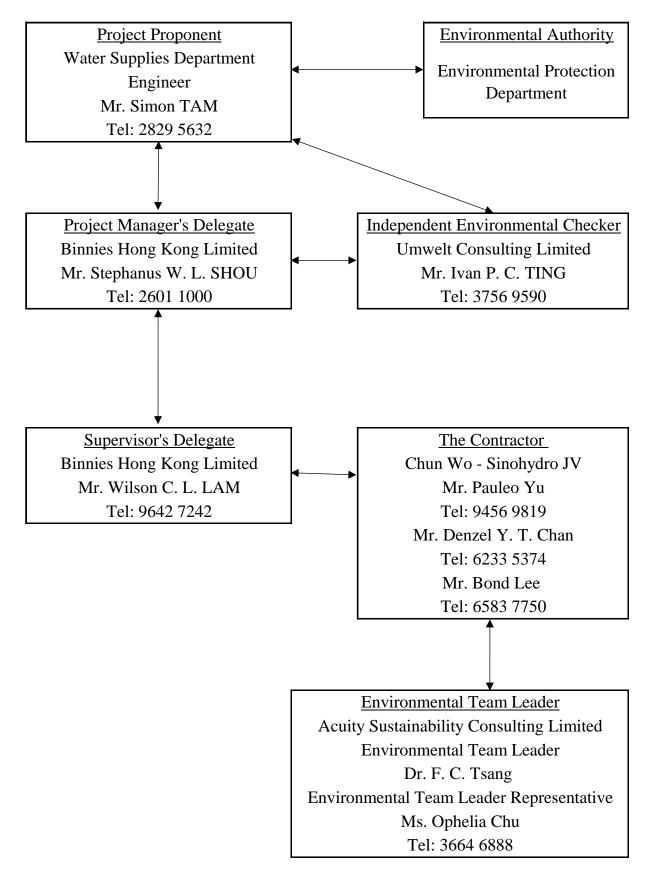


Appendix B

Project Organization Chart and Key Personnel Contact









Appendix C

Event and Action Plans



Table C1Event and Action Plan for Air Quality (Dust)

Frank		A	ction	
Event	ET Leader	IEC	ER	Contractor
Action Level exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check contractor's working method. 	Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Action level exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for one sample	• Identify source, investigate the causes of exceedance and propose remedial measures;	• Check monitoring data submitted by ET;	• Confirm receipt of notification of failure in writing;	• Take immediate action to avoid further exceedance;



E		A	ction	
Event	ET Leader	IEC	ER	Contractor
	 Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Table C2Event/Action Plan for Construction Noise

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



Table C3Event/Action Plan for Landscape and Visual

Event		A	ction	
Event	ET	IEC	ER	Contractor
Action Level Exceedance	 Inform the IEC, ER and the Contractor; Discuss remedial actions with IEC, ER and Contractor; and Monitor remedial actions until rectification has been completed. 	 Check inspection report; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise ER on effective of proposed remedial measures; and Check implementation of remedial measures. 	 Confirm receipt of notification of non- conformity in writing; Review and agree on the remedial measures proposed by the Contractor; and Ensure remedial measures are properly implemented. 	 Identify source and investigate the non-conformity; Amend working methods agreed with ER as appropriate; and Rectify damage and undertake any necessary replacement.
Limit Level Exceedance	 Identify sources; Inform the Contractor, IEC and ER; Discuss inspection frequency; Discuss remedial actions with IEC, ER and Contractor; Monitor remedial actions until rectification has been completed; and If non-conformity stops, cease additional monitoring. 	 Check inspection report; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; and Advise ER on effectiveness of proposed remedial measures. 	 Notify the Contractor; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; and Supervise implementation of remedial measures. 	 Identify source and investigate the non-conformity; Implement remedial measures; Amend working methods agreed with ER as appropriate; Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.

Notes:

ET - Environmental Team; IEC - Independent Environmental Checker; ER - Engineer's Representative



Appendix D

Project Implementation Schedule



Environmental Mitigation Implementation Schedule (EMIS)

EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status				
Air Qua	Air Quality										
D1	Dust suppression measures, including watering once per hour, will be incorporated in accordance with the requirements of the Air Pollution Control (Construction Dust) Regulation. Dust filter shall be installed at the ventilation system of the emission source at the tunnel portal chimney. The proposed dust control measures presented in Table 3.11 of the EIA report shall be followed.	Minimize dust impact at the nearby sensitive receivers	Contractor	Tunnel Portal	Construction Phase	 Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria 	Implemented				
D2	 The following dust suppression measures should be incorporated into contract document. The standard dust suppression measures as stipulated in the Air Pollution Control (Construction Dust) Regulation to control the dust nuisance shall be implemented throughout the construction phase: The contractor shall observe and comply with Air Pollution Control (Construction Dust) Regulation and implement all the required mitigation measures. The contractor shall undertake precautions at all times to prevent dust nuisance and smoke as a result of his activities. The contractor shall ensure a highly efficient dust filter (at least 80% efficiency) to be installed at the ventilation exhaust to treat the exhausting air from cavern. The contractor shall frequently clean and water the site to minimize fugitive dust emissions. The contractor shall ensure that there will be adequate water supply/storage for dust suppression. 	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	 Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria 	Implemented				

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EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	• The working area of any pavement breaking, excavation or earth moving operation should be sprayed with water immediately before, during and after the operation to avoid dust generation.						
	• Any stockpile of dusty material should be properly covered by tarpaulin or other impervious sheeting.						
	• Vehicles leaving a site loaded with dusty materials should be covered by tarpaulin or other impervious sheeting.						
	 Wheel washing facilities shall be installed and used by all vehicles leaving the site. No earth, mud, debris, dust and the like shall be deposited on public roads. Water in the wheel cleaning facility shall be changed at frequent intervals and sediments shall be removed regularly. The contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. Any materials dropped on paved roads shall be cleaned up immediately to prevent dust nuisance. 						
	• The contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimize dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented.						
D3	The contractor shall also implement specific dust mitigation measures for excavation, drilling and blasting activities during the construction of tunnel portal. These include the use of blast nets / canvas covers and ensure portal door is properly closed.	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	 Air Pollution Control Ordinance To control the dust impact to meet 	To be Implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
						HKAQO and EIAO- TM criteria	
D4	Before the commencement of any works, the Engineer may require the contractor to submit the methods of working, construction plant or equipment and air pollution control measures to be used on the site to be made available for inspection and approval.	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	 Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria 	Implemented
D5	 The following precautionary measures shall be incorporated into contract document and implemented throughout the construction. The contractor shall ensure the use of electricity power equipment is connected to the main electricity supply for better emission estimation. The contractor shall avoid the use of diesel power machines and generators as far as practicable. The contractor shall avoid the use of non-road mobile machineries which exempt by the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, and seek the ones with proper label issued by EPD. The contractor shall observe the requirement of DEVB TC(W) No. 13/2020, to apply a temporary electricity and water supply with a target that the necessary cables/water mains laying works could be completed before the commencement of the works contract. 	Avoid burdening the surrounding NO ₂ concentration	Contractor	All Construction sites	Construction Stage	 Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria DEVB TC(W) No. 13/2020 	Implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status			
Construc	Construction Noise									
N1	The contractor should limit the pipe section to be constructed by open cut method in a length of no more than 30 m at any one time when works are in close proximity to NSRs. Each work front along the proposed watermain laying should be separated by a clearance distance of at least 60 m.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	To be implemented			
N2	Use of quiet PME is considered to be a practicable means to mitigate the construction noise impact. Quiet plant is defined as a PME having actual SWL lower than the value specified in the GW-TM.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	 EIAO-TM A Practical Guile for the Reduction of Noise from construction works 	Implemented			
N3	The use of noise barrier for certain PME could generally provide a 5 dB(A) reduction for movable PME and 10 dB(A) for stationary PME. The barrier material shall have a superficial surface density of not less than 10 kg/m^2 and have no opening or gaps. Sound absorbent lining inside the enclosure should be at least 25 mm thick.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	Implemented			
N4	Provision of movable noise barriers of 3m or above in height and with a short-cantilevered section on the top with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	To be implemented			
N5	Noise enclosure lined with absorptive materials shall be provided at the tunnel portal to mitigate the noise from tunnel/cavern construction. The enclosure is a gap free enclosure with acoustic doors for vehicular access purpose. The acoustic doors shall remain closed throughout the construction period. The sheet material mass of the noise enclosure should be at least 10 kg/m ² and sound-absorbent lining inside the enclosure should be at least 25 mm thick.	Control construction noise impacts	Contractor	Tunnel Portal	Construction stage	 EIAO-TM A Practical Guile for the Reduction of Noise from construction works 	To be implemented			



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
N6	Noise barrier/enclosure should be inspected and maintained regularly. The contractor should design and provide details of the temporary noise barriers and noise enclosure to the Engineer for approval.	Control construction noise impacts	Contractor	All Construction sites	Construction stage	• EIAO-TM	Implemented
N7	For NSR5, NSR14, NSR19 and NSR 22, the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works) shall be arranged and carried out during School Holidays (i.e., the section of the mainlaying alignment is 20m measured from the school site boundary).	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N8	During examination period, no mainlaying works will be carried out within 30m (for NSR 14, NSR 19 and NSR 22) or 50m (for NSR 5) from the school site boundary.	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N9	For NSR13, NSR20 and P1, the concrete lorry mixer shall be located 10 m away from the residential site boundary during the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works).	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N10	 <u>Good Site Management Practices</u> Only well-maintained plant should be operated onsite, and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase; Mobile plant, if any, should be sited away from NSRs; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction should be orientated so that the noise is directed away from the nearby NSRs; 	Control construction noise impacts	Contractor	All Construction sites	Construction stage	• EIAO-TM	Implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Material stockpiles and other structures should be effectively utilised in screening noise from on-site construction activities; The contractor should devise, arrange methods of working and carrying out the works in such manner as to minimise noise impacts on the surrounding environment, and should provide experience personnel with suitable training to ensure that all these measures are implemented properly; and; The contractor should minimise construction noise exposure to the school (especially during examination periods) as much as possible. The contractor should liaise with the school and Examination Authority to ascertain the exact dates and times of all examination periods during the course of the contract and to avoid noisy activities during these periods. 						
Operatio	n Noise						
N11	 Choose quieter plant; Include noise levels specification when ordering new mechanical equipment such as pumps and ventilation systems; Locate fixed plant, louvres or openings away from NSRs; Locate fixed plant in walled plant rooms or in specially designed enclosures; Ensure pump room doors and tunnel portal doors are kept closed; Silencers, acoustic louvres or acoustic doors should be used where necessary; and Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly 	Reduce the operation noise	Project Proponent	Tunnel Portal / Ancillary building / SRs in carven	Prior to operation of the Project for planned NSRs	• EIAO-TM	To be implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	operated and serviced in order to maintain controlled level of noise. The programme should be implemented by properly trained personnel.						
Water Qu	uality (Construction Phase)						
W1	General Construction Site Practice The Contractor should observe and comply with the Water Pollution Control Ordinance and its subsidiary regulations and obtain a discharge license under the Ordinance for discharge of effluent from the construction site. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The Contractor should carry out the Project works in such a manner as to minimise adverse impacts on the water quality during execution of the works. In particular, the Contractor should arrange the working method to minimise the effects on the water quality within and outside the Project Site and on the transport routes. In addition, the management of construction site drainage from the Project will follow guidelines provided in ProPECC PN 1/94 – "Construction Site Drainage". The mitigation measures described in ETWB TC(W) No. 5/2005 shall also be followed where necessary for construction activities in close vicinity to inland watercourses.	To minimise water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	Implemented
W2	<u>Construction Site Runoff and General Construction</u> <u>Activities</u> Proper site management measures should be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching	To minimize water quality impact from construction site runoff and general	Contractor	All construction sites where applicable	Construction stage	Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM	Implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 downstream sections of the river/stream. The mitigation measures shall include the following practices: Provision of perimeter channels to intercept storm-runoff from outside the site. These should be constructed in advance of the construction works. Temporary ditches such as channels, earth bunds or sandbag barriers should be included to facilitate runoff discharge into the stormwater drain, via a sand/silt basin/trap. Works programme should be designed to minimise works areas at any one time, thus minimizing exposed soil areas and reducing the potential for increased siltation and site runoff. Sand/silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove the sand/silt particles from run-off where necessary. These facilities should be properly and regularly cleaned and maintained. These facilities should be carefully planned to ensure that they would be installed at appropriate locations to capture all surface water generated on site. Careful programming of the works to avoid excavation works during the rainy season (April to September). Temporary access roads (if any) should be protected by crushed gravel and exposed slope surfaces shall be protected (e.g. by tarpaulin) when rainstorms are likely; Open stockpiles of construction materials on-site should be covered with tarpaulin or similar fabric 	address construction activities				• TM-DSS	
	during rainstorms to prevent erosion. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system						



-		Obientie - Cul					
EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	• Earthwork 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.						
	 Measures should be taken to minimise 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. Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting 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. 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. 						
	• 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 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						



	*						
EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.						
W3	Reuse of treated site runoff shall be considered as far as practicable for onsite activities such as dust suppression, wheel washing and general cleaning, etc.	To minimize water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	N/A
W4	Sewage Generated by Construction Workforce No discharge of sewage to the storm drains and inland watercourse will be allowed. Domestic sewage /wastewater generated by workforce on-site should be collected in a suitable storage facility such as portable chemical toilets. An adequate number of portable toilets will be provided during the construction phase, with a licensed collector employed to clean the chemical toilets on a regular basis and be responsible for collection and disposal of the sewage. According to the Reference Materials on Construction Site Welfare, Health and Safety Measures that issued by the Construction Industry Council, the number of toilet facilities provided on site shall be at a ratio of not less than one for every 25 workers. These toilets should be maintained in a state that will not deter the workers from using them.	To minimise water quality impact from sewage effluent in construction phase	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	Implemented
W5	Accidental Spillage of Chemicals The following mitigation measures should be implemented to avoid adverse impacts of chemical spillage:	To prevent water quality impact due to chemical spillage	Contractor	All construction sites where applicable	Construction stage	Water Pollution Control Ordinance Waste Disposal (Chemical Waste) (General) Regulation ProPECC PN1/94	Implemented

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EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Waste streams classifiable as chemical wastes should be properly stored, collected and treated for compliance with the requirements set out in the Waste Disposal Ordinance and its subsidiary Waste Disposal (Chemical Waste) (General) Regulation. All fuel tanks and chemical storage areas should be provided with locks and be sited on paved areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters. Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance. 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. 	address				• ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	
W6	 <u>Groundwater infiltration and Groundwater Drawdown</u> To minimize the groundwater infiltration, the following groundwater control measures are recommended: The Contractor shall undertake rigorous probing of the ground ahead of excavation works to identify zones of significant water inflow that could occur as a result of discrete, permeable features. In such zones of significant water inflow, the overall inflow would be reduced by means of cut-off grouting executed ahead of the tunnel/cavern advance. Where water inflow quantities are excessive, pregrouting will be required to reduce the water inflow into the tunnel/cavern. 	To minimise water quality impact from groundwater infiltration	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	To be Implemented

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EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 In case of excessive infiltration being observed as a result of the tunnelling or excavation works even after pre- grouting measures, post-grouting should be applied as far as practicable. Waterproof lining will be installed after the formation of the tunnels and caverns. In the event of seepage of groundwater occurs, groundwater should be pumped out from works areas and discharged to the storm drains via silt removal facilities. The discharges during construction phase shall comply with WPCO requirements 	To minimise	Contractor	All construction	Construction	• Water Pollution	To be
W7	<u>Watercourses</u> The mitigation measures proposed for "General Construction Site Practice" and "Construction Site Runoff and General Construction Activities" in Sections 5.8.2 and 5.8.3 of the EIA report shall be implemented properly to minimize the water quality impacts during to the construction works in close proximity of inland watercourse.	water quality impact from construction site near watercourses		sites where applicable	stage	Control Ordinance • ProPECC PN1/94 • ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	Implemented
W8	 The practices outlined in ETWB TC(W) No. 5/2005 shall also be adopted where applicable to minimise the water quality impacts upon any natural streams or other inland watercourses. Relevant mitigation measures are listed below: The use of less or smaller construction plants may be specified in areas close to the inland watercourses to reduce the disturbance to the surface water. Temporary storage of materials (e.g. equipment, chemicals and fuel) and temporary stockpile of 	To minimise water quality impact from construction site near watercourses	Contractor	The relocated DHSRs	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	Implemented



•	Linea Report						
EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 construction debris and spoil should be located well away from any watercourses. Stockpiling of construction materials and dusty materials should be covered and located away from any watercourses. Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby inland watercourses. Adequate lateral support may need to be erected in order to prevent soil/mud from slipping into the watercourses. Construction works close to the inland watercourses should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. 						
W9	<u>Cleansing Effluent Generated from Washing of Interior of</u> <u>Structures</u> The cleaning effluent containing SS and residual chlorine should be settled out through the sedimentation tank and dechlorinated by the de-chlorination plant. The discharge quality of the cleansing effluent generated from washing of interior of structures after the construction shall meet the requirements specified in the discharge licence and the cleaning effluent should be treated properly so that it satisfies all the standards listed in the TM-DSS	To minimise water quality impact from construction site effluent	Contractor	The relocated DHSRs	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	To be Implemented
Water Q	uality (Operation Phase)						
W10	The ProPECC PN 5/93 "Drainage Plans subject to Comments by Environmental Protection Department" provides guidelines and practices for handling, treatment and disposal of various effluent discharges to stormwater drains and foul sewers. The design of site drainage and disposal of various site effluents generated within the	To control operational site effluents	Further Operator	The relocated DHSRs	Operation stage	Water Pollution Control Ordinance ProPECC PN5/93	To be Implemented

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	development area should follow the relevant guidelines and practices as given in the ProPECC PN 5/93.						
W11	<u>Effluents from Cleaning of Service Reservoir</u> Treatment and disposal of cleansing water during annual cleaning and maintenance of the service reservoirs shall follow the WSD's current normal practice with reference to Sections 23.24 – 23.25 of the General Specification for Civil Engineering Works. Portable water incorporated with a mixture of sterilizing chemicals shall be used for washing water retaining structures. The cleansing effluent shall be settled out through the sedimentation task and dechlorinated by a dechlorination unit before being discharged to drainage system. Agreement of DSD and discharge license from EPD shall be obtained before commencing any of the discharges during operation phase	To control operational site effluents	Further Operator	The relocated DHSRs	Operation stage	 Water Pollution Control Ordinance Sections 23.23-23.24 of the General Specification for Civil Engineering Works TM-DSS 	To be Implemented
W12	 Non-point Source Surface Runoff Best Management Practices (BMPs) to reduce non-point source surface water pollution are proposed as follows: Exposed surface shall be avoided within access road and portal/ancillary building areas to minimise soil erosion. The access road and the portal/ancillary building areas shall be either hard paved or covered by landscaping area where appropriate. Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps should be provided to remove particles present in stormwater runoff, where appropriate. Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning 	To minimize water quality impact from non-point source surface run-off	Further Operator	The relocated DHSRs	Design and Operation stages	 Water Pollution Control Ordinance ProPECC PN5/93 	To be Implemented



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	 should also be carried out prior to occurrence of rainstorm. Manholes, as well as storm water gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. 						
Waste M	anagement (Construction Phase)						
WM1	The waste management hierarchy shall apply to the construction waste management (i.e. in order of desirability: avoidance, minimization, recycling, treatment and safe disposal of waste).	Minimize waste generation during construction	Contractor	All construction sites	Design and Construction stages	Waste Disposal Ordinance EIAO	Implemented
WM2	The contractor should develop and provide toolbox talk for on-site sorting of C&D materials to enhance workers' awareness in handling, sorting, reuse and recycling of C&D materials. Requirements for staff training should be included in the contractor's Environmental Management Plan (EMP). The EMP shall be submitted to the Architect/Engineer for approval before construction works in accordance with ETWB TC(W) No.19/2005.	Minimize waste generation during construction	Contractor	All construction sites	Construction stages	 Waste Disposal Ordinance EIAO ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010 	Implemented
WM3	Good planning and site management practice should be employed to eliminate over-ordering or mixing of construction materials to reduce wastage. Proper storage and site practices will minimise the damage or contamination of construction materials.	Ensure proper waste management system throughout the construction	Contractor	All construction sites	Construction stages	 Waste Disposal Ordinance EIAO ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010 	Implemented
WM4	Where waste generation is unavoidable, the potential for recycling or reuse should be rigorously explored. If waste cannot be recycled, disposal routes described in the EMP should be followed. A recording system for the amount of wastes generated, recycled and disposed (including the	Reduce waste generation	Contractor	All Construction sites	Construction stage	Waste Disposal Ordinance EIAO ETWB TC(W) No. 19/2005	Implemented

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	disposal sites) should be implemented. In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills and to control fly- tipping, a trip-ticket system should be included. One may make reference to DEVB TC(W) No. 6/2010 for details.					• DEVB TC(W) • No. 6/2010	
WM5	Regular cleaning and maintenance of the waste storage area should be provided.	Avoid odour, pest, and litter impacts	Contractor	All construction sites	Construction stage	• DEVB TC(W) No.8/2010 • ETWB TC(W) No. 19/2005	Implemented after observation
WM6	 <u>Best Management Practice</u> An on-site environmental co-ordinator should be identified at the outset of the works. The co-ordinator shall prepare an Environmental Management Plan (EMP) incorporating waste management in accordance with the requirements set out in the ETWB TCW No. 19/2005, Environmental Management on Construction Sites. The EMP shall include monthly and yearly Waste Flow Tables (WFT) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated. WFT will be provided in the WMP which will form part of the EMP in accordance with ETWB TCW No.19/2005; The reuse/recycling of all materials on site shall be investigated prior to treatment/ disposal off- site; Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation; All waste materials shall be sorted onsite into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. 	Ensure proper waste management system throughout the construction	Contractor	All construction sites	• Construction stage	 EIAO Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites DEVB TCW No.6/2010 DEVB TCW No. 8/2010 WBTC No.12/2000 	Implemented after reminder



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	 The contractor shall be responsible for identifying what materials can be recycled/ reused, whether onsite or offsite. In the event of the latter, the contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert C&D materials shall be collected and disposed of to the landfills whilst any inert C&D materials shall be reused on site as far as possible. Alternatively, if inert C&D materials cannot be reused on-site, the materials would be delivered to public fill reception facilities for beneficial reuse after obtaining the appropriate licence; With reference to DEVB TCW No.6/2010, Trip-ticket System for Disposal of Construction and Demolition Material, a trip ticket system should be established at the outset of the construction to monitor the disposal of C&D materials and solid wastes from the site to public filling facilities and landfills; Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Waste Control Scheme both published by EPD; A sufficient number of covered bins shall be provided on site for the containment of general refuse. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the 		17				

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EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 issue of DEVB TCW No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the contractor is required to maintain a clean and hygienic site throughout the Project works; Tool-box talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse, and recycling; and The contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of Project construction. 						
WM7	 <u>On-site Sorting, Reuse and Recycling</u> All waste materials should be segregated into categories covering: Inert C&D materials suitable for reuse on-site; Inert C&D materials suitable for public fill reception facilities; Recyclable C&D materials for recycling; Remaining C&D materials for landfill; Chemical waste; and General refuse for landfill. 	Reduce waste generation	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites	Implemented
WM8	Proper segregation and disposal of construction waste should be implemented. Separate containers should be provided for inert and non-inert materials.	Reduce waste generation	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites	Implemented



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WM9	Specific area should be allocated for on-site sorting of C&D materials and to provide a temporary storage area for those sorted materials. If area is limited, all C&D materials should at least be sorted on-site into inert and non-inert components. Non-inert C&D materials such as bamboo, timber, vegetation, packaging waste and other organic materials should be reused and recycled to local recycler wherever possible and disposed to the designated landfill only as a last resort. Inert C&D materials such as concrete, stone, clay, brick, soil, asphalt and the like should be separated and reused in this or other projects (subject to approval by the relevant parties in accordance with the DEVB TC(W) No. 6/2010) before disposed of at a public filling facility operated by CEDD. Steel and other metals should be recovered from demolition waste stream and recycled	Ensure proper waste management system throughout the construction in order to reduce waste generation	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites DEVB TCW No.6/2010 DEVB TCW No.8/2010 	Implemented
WM10	The reuse of inert C&D materials such as soil, rock and broken concrete should be maximised. Waste should be separated into fine, soft and hard materials. With the use of a crusher. coarse materials can be crushed to make it suitable for use as fill materials where fill is required in the works. This minimises the use of imported materials and maximises the use of the C&D materials produced. Approval from CEDD and EPD shall be obtained for the use of site crusher in accordance with WBTC No. 11/2002.	Ensure proper waste management system throughout the construction in order to reduce waste generation	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance WBTC No. 11/2002	Implemented
WM11	<u>Excavated Materials</u> Excavated materials should be temporarily stored on-site for use as backfill as far as possible. It should be properly covered with tarpaulin or similar impervious sheeting to prevent dust nuisance and site runoff. Surplus excavated materials should be disposed of to public fill reception facilities.	Minimize dust, site runoff and waste impacts from excavated and C&D materials	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria 	Implemented



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WM12	 Control measures for temporary stockpiles on-site should be taken, which include: Surface of stockpiled soil should be regularly wetted with water especially during dry season; Disturbance of stockpiled soil should be minimized; Stockpiled soil should be properly covered with tarpaulin especially when heavy rainstorms are predicted; Stockpiling areas should be enclosed where space is available; Stockpiling location should be away from the water bodies; and An independent surface water drainage system equipped with silt traps should be installed at the stockpiling area. 	Minimize the noise, generation of dust, pollution of water and visual impact from excavated and C&D materials	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria. ETWB TC(W) No.19/2005 	Implemented
WM13	The Public Fill Committee of CEDD should be consulted for disposal of inert C&D materials to public fill reception facilities while EPD should be consulted for disposal of non-inert C&D materials to landfill. Disposal of C&D waste to landfill must not have more than 50% (by weight) inert material. The C&D waste delivered for landfill disposal should contain no free water and the liquid content should not exceed 70% by weight.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Design and Construction stages	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites DEVB TCW No.6/2010 DEVB TCW No.8/2010 	Implemented
WM14	In order to avoid dust impacts, any vehicle leaving a works area carrying C&D waste or public fill should have their load covered up before leaving the construction site.	Minimize the dust impact from transferring C&D materials	Contractor	All construction sites	Construction stages	 Air Pollution Control Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites 	Implemented



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						• DEVB TCW No.6/2010 • DEVB TCW No.8/2010	
WM15	C&D materials should be disposed of at designated public fill reception facilities or landfills. Disposal of these materials for the use at other construction projects is subject to the approval of the Engineer and/or other relevant reception authorities. Furthermore, unauthorised disposal of C&D materials in particular on private agricultural land is prohibited and may be subject to relevant enforcement and regulating actions. The disposal of public fill and C&D materials will be controlled through trip-ticket system in accordance with DEVB TC(W) No. 6/2010.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Construction stages	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites DEVB TCW No.6/2010 DEVB TCW No.8/2010 	Implemented
WM16	<u>Chemical Waste</u> Where the construction processes produce chemical waste, the contractor must register with EPD as a chemical waste producer. Wastes classified as chemical wastes are listed in the Waste Disposal (Chemical Waste) (General) Regulation. These wastes are subject to stringent disposal routes. EPD requires information on the particulars of the waste generation processes including the types of waste produced, their location, quantities and generation rates. A nominated contact person must be registered with EPD. An updated list of licensed chemical waste collector can be obtained from EPD.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste 	Implemented
WM17	Storage, handling, transport, and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and collected by a licensed chemical waste collector.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and 	Implemented



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						Storage of Chemical Waste	
WM18	Suitable containers should be used for specific types of chemical wastes. The containers should be properly labelled (in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations), resistance to corrosion, stored safely and closely secured. Stored volume should not be kept more than 450 liters unless the specification has been approved by the EPD. Storage area should be enclosed by three sides by a wall, partition of fence that is at least 2 m height or height of tallest container with adequate ventilation and space.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste 	Implemented
WM19	Hard standing, impermeable surfaces draining via oil interceptors should be provided in works area compounds. Interceptors should be regularly emptied to prevent release of oils and grease into the surface water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. Oil and fuel bunkers should be bunded and/or enclosed on three sides to prevent discharge due to accidental spillages or breaches of tanks. Bunding should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest. Waste collected from any oil interceptors should be collected and disposed of by a licensed collector.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites Waste Disposal (Chemical Waste) (General) Regulation EIAO-TM criteria 	Implemented
WM20	Lubricants, waste oils and other chemical wastes are likely to be generated during the maintenance of vehicles and mechanical equipment. Used lubricants should be collected and stored in individual containers which are fully labelled in English and Chinese and stored in a	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging 	Implemented



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	designated secure place. The chemical waste shall be collected by licensed chemical waste collectors.					Labelling and Storage of Chemical Waste	
WM21	The registered chemical waste producer (i.e. the contractor) has to arrange for the chemical waste to be collected by licensed collectors. The licensed collector should regularly take chemical waste to a licensed chemical waste treatment facility (such as the CWTC in Tsing Yi). A trip ticket system operates to control the movement of chemical wastes.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	• Waste Disposal (Chemical Waste) (General) Regulation	Implemented
WM22	No lubricants, oils, solvents or paint products should be allowed to discharge into water courses, either by direct discharge, or as contaminants carried in surface water runoff from the construction site.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	• Waste Disposal (Chemical Waste) (General) Regulation	Implemented
WM23	<u>General Refuse</u> General refuse should be disposed of to landfill as designated by EPD only after recyclable materials (e.g. paper, metals, aluminium cans, etc.) have been sorted out.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractors	All construction sites	Construction stage	Waste Disposal Ordinance Public Health and Municipal Services Ordinance (Cap.132)	Implemented
WM24	The contractor should nominate approved site personnel 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 about site cleanliness, proper waste management and chemical handling procedures should be provided. Recyclable materials such as papers and aluminium cans should be separated and delivered to the local recyclers. An adequate number of waste containers should be provided to avoid spillage of waste.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractors	All construction sites	Construction stage	 Waste Disposal Ordinance Public Health and Municipal Services Ordinance (Cap.132) 	Implemented
WM25	General refuse generated on-site should be stored in enclosed bins or skips and collected separately from other construction and chemical wastes and disposed of at	Minimise production of the general refuse and	Contractors	All construction sites	Construction stage	• Waste Disposal Ordinance	Implemented



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	designated landfills by reputable waste collectors. The removal of waste from the site should be arranged on a daily basis or at least on every second day by the contractor to minimise any potential odour impacts, minimise the presence of pests, vermin and other scavengers and prevent unsightly accumulation of waste.	avoid odour, pest and litter impacts				• Public Health and Municipal Services Ordinance (Cap.132)	
Waste M	anagement (Operation Phase)						
WM26	The general refuse and chemical waste generated during the operation phase would follow the same handling procedures and disposal method presented in Sections 6.6.16 to 6.6.25 of the EIA report. It is expected that there would be limited quantities of general refuse and chemical waste to be generated from the operation of the Project and will be properly handled by licensed chemical waste collectors and reputable waste collector. Waste monitoring and audit programme for the operation phase of the Project would not be required.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Relevant Operators	All construction sites	Operation Stage	 Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste Public Health and Municipal Services Ordinance (Cap.132) 	To be implemented
Ecology							
E1	Direct impact to the recognised site of conservation importance (Lion Rock Country Park)/habitats with high ecological values (e.g. watercourse, woodland, species of conservation interest shall be avoided.	Avoid any direct impacts to these sites of conservation importance /habitats with high ecological value	Detailed Design Consultant	Sites of conservation importance/ habitats with high ecological value	Design Stage	TM-EIAO	To be implemented



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E2	 To minimise habitat loss to the nearby habitats and associated wildlife, the following mitigation measures should be implemented: • Confining the works within the Project Boundary; Controlling access of site staff to avoid damage to the vegetation in surrounding areas; and Placement of equipment or stockpile in the existing disturbed / urbanised area within the Project Boundary of the Project to minimise disturbance to vegetated area. 	Minimise habitat loss to the nearby habitats and associated wildlife	Contractor	All construction sites	Construction Stage	TM-EIAO	Implemented
E3	Reinstatement and enhancement of temporarily affected habitats. Minor ecological impacts may arise from the temporary loss of plantation and developed area during construction phase. In general, replanting would be implemented upon the completion of the construction works to reinstate the temporarily affected areas to condition similar to original status.	Enhance the temporarily affected habitats	Contractor	All construction sites	Construction stage	TM-EIAO	To be implemented
E4	 Minimizing Disturbance from Construction Activities Mitigation measures including, but not limited to, erection of site hoarding, use of Quality Powered Mechanical Equipment (QPME), noise and dust reduction tarpaulin sheeting and good site practices throughout construction phase are shown as followings: Site hoarding would be established around the proposed tunnel portal and E&M building prior to the commencement of construction works to prevent construction activities from encroaching adjacent habitats as well as prevent unnecessary human activities in the surrounding habitats; QPME, noise and dust reduction tarpaulin sheeting could be used during construction phase to reduce noise disturbance and dust emission. Temporary 	To minimise disturbance from construction activities	Contractor	All construction sites	Construction stage	TM-EIAO	Implemented

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	 barriers such as movable noise barrier, temporary noise screening structures and site hoardings could further reduce the noise impact; Good site practices such as regular water spraying at dusty operation, provision of waste skips and timely collection of general refuse and construction waste are also recommended. 						
E5	Reduction of lighting can be achieved using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.	To minimize disturbance from construction activities	Contractor	All construction sites	Construction stage	TM-EIAO	Implemented
E6	Control of Site Runoff Best management practices should be implemented on site in accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94) as far as practicable to control site runoff and drainage at all work sites during construction phase, so that the treated runoff will be discharged to public drainage system in compliance with the WPCO. Construction effluent, site run-off and sewage should be properly collected and/or treated. Wastewater from a construction site should be managed. Proper locations for discharge outlets of wastewater treatment facilities well away from the natural watercourses should be identified. Effluent monitoring should be incorporated to make sure that the discharged effluent from construction sites meets the effluent discharge guidelines. The practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimise the water quality impacts upon the channalised/semi-natural	To control site runoff and drainage at all work sites, thus, the aquatic ecosystem is protected.	Contractor	All construction sites	Construction stage	 Water Pollution Control Ordinance ProPECC PN. 1/94 	Implemented

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	watercourses, in order to better protect the aquatic ecosystem.						
E7	<u>Control of Groundwater Infiltration</u> In order to minimise groundwater infiltration or avoid potential impacts on watercourses, water table and groundwater drawdown, minimization approach was adopted during design stage and would be adopted during construction and operation phase.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E8	The proposed cavern would be constructed under the measured groundwater table. Water inflow would be controlled to an acceptable level by implementing pre- grouting and post-grouting measures, thus the impact of the proposed cavern on the groundwater table is considered to be limited.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
Е9	The permanent tunnel structure of the proposed access tunnel would be designed as drained type at the locations with adequate rock cover and designed as undrained type at locations with mix ground conditions. The water inflow would also be controlled to an acceptable level with pre- grouting and postgrouting measures.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E10	During operation phase, waterproof lining would be installed to prevent water seepage and water droplets (if any) would be discharged into the sewage system	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E11	All the mitigation measures regarding potential groundwater infiltration concern that has been proposed in Section 5.8.7 shall be followed.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented



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Landscap	pe and Visual (Construction Phase)						
CM1	 Careful Site Planning and Management The site layout and works area including temporary access road(s), stockpiling area(s), temporary construction storage shall be carefully planned to preserve existing landscape resources and trees as far as practicable. Good site practices shall be enforced to eliminate eyesores from unappealing stockpiling/ storage areas and/or construction activities. 	To minimize site clearance, tree removal and disturbance to existing Landscape Resources, and visual obstruction to VSRs	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented
CM2	 <u>Careful Design of Slope Works</u> Slope stabilization methods (i.e., insertion of soil nails and establishment of grillage, etc.) shall be carefully formulated to minimise the loss of tree and landscape cover as far as practicable. 	To minimize tree removal and to create a slope surface better blending with the surrounding environment	Project Proponent (via Contractor)	Works area at Cavern and tunnel portal	Construction stage	N/A	Implemented
CM3	 <u>Tree Preservation</u> In accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version, existing vegetation shall be retained on site as far as practicable. Adequate tree protection measures shall be provided for the Trees to be retained on site. Relevant guidelines on tree care and protection promulgated by Greening, Landscape and Tree Management Section of Development Bureau shall be observed and followed. 	To minimize tree removal	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented after observation
CM4	 Tree Transplanting/ Compensatory Tree Planting Trees unavoidably affected by the project shall be transplanted as far as practicable in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version and the latest guidelines promulgated by 	To minimize the loss of trees To compensate for the loss of tree	Project Proponent (via Contractor)	All construction areas	Construction stage	DEVB TC(W) No. 4/2020- Tree Reservation	Implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Greening, Landscape and Tree Management Section of Development Bureau. Affected trees that are not suitable for transplantation and to be felled shall be compensated in not less than 1:1 in quantity and in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version. Onsite compensation has been prioritized. However, due to land status issues, area of onsite compensatory planting locations are insufficient to compensate for the loss of trees and near site compensatory locations managed by WSD are adopted, as shown in Figure 9.9, Figure 9.10A, Figure 9.10B and Figure 9.11 of the EIA report. Tree species selected shall be compatible with surrounding existing vegetation. 	To provide quality and sustainable landscape that is compatible with the site context					
CM5	 <u>Inspection of Tree Works</u> Regular site inspection shall be conducted by tree specialist. 	To closely monitor the site activities in order to avoid or minimize any possible adverse impact to the retained trees	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented
CM6	 <u>Minimization of Light Impact</u> Lighting at construction sites shall be carefully controlled at night 	To avoid disturbance to nearby VSRs	Project Proponent (via Contractor)	All construction areas and temporary works areas	Construction stage	N/A	Implemented
CM7	 <u>Erection of Decorative Site Hoarding</u> Decorative hoarding that is compatible with the surrounding environment shall be erected during construction. 	To enhance the visual amenity of construction hoarding	Project Proponent (via Contractor)	All construction areas and temporary work areas	Construction stage	N/A	To be implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
CM8	 <u>Reinstatement of Temporarily Disturbed Areas</u> Temporarily disturbed landscape areas shall be reinstated. 	To reinstate the disturbed landscape	Project Proponent (via Contractor)	All construction areas and temporary work areas	Construction stage	N/A	To be implemented
Landscap	pe and Visual (Operation Phase)						
OM1	 <u>Landscape Planting</u> Landscape planting shall be provided in accordance with DEVB TCW No.3/2012 – Site Coverage of Greenery for Government Building Projects or its latest version. Planting species shall be compatible with the nearby existing vegetation cover as far as practicable. Not less than 12-month establishment after completion shall be provided for the landscape planting. 	To soften the hard edges of the structure and make it more compatible with the surrounding environment	Project Proponent (via Contractor)	Ancillary building	Operation stage	DEVB TCW No.3/2012	To be implemented
OM2	Rooftop Greening Rooftop greening shall be implemented with reference to the references on skyrise greenery provided by the Greening, Landscape & Tree Management Section, Development Bureau.	To make the ancillary facilities more compatible with the surrounding woodland landscape and to mitigate the potential adverse visual impact on adjacent residential VSRs viewing from an elevated vantage point	Project Proponent (via Contractor)	Ancillary building	Operation stage	N/A	To be implemented
OM3	<u>Vertical Greening</u> Vertical greening shall be provided.	To enhance the visual amenity of the ancillary	Project Proponent	Ancillary building	Operation stage	N/A	To be implemented



EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
		facilities and to blend in with the surrounding landscape	(via Contractor)				
OM4	 <u>Careful Design of Ancillary Facilities</u> The orientation and location of the ancillary facilities shall be carefully designed. Its finish shall be non-reflective and dull in colour. The ancillary facilities are unmanned structures that merely require minimal security services during daytime. There shall be nobody and no lighting illuminating from the buildings at night, except essential street lighting for the portal access road. 	To avoid glare impact to surrounding VSRs	Project Proponent (via Contractor)	Ancillary building	Operation stage	N/A	To be implemented



Appendix E

Air Quality and Noise Monitoring Equipment Calibration Certification



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

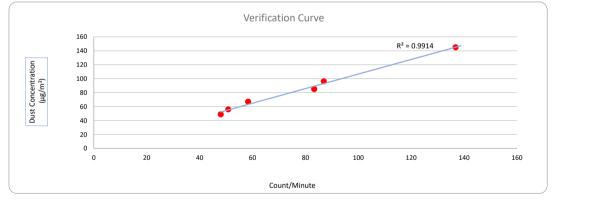
Verification Test Date:	28-Nov-23	to	30-Nov-23	Next Verification Test Date:	28-Nov-24
Unit-under-Test- Model No.:		Sibata LD-5	iR		
Unit-under-Test Serial No.:		0Z4545			
Our Report Refrence No.:		RPT-23-HVS-C	0065		
Calibration Location:	AM2	, location nea	ar the Leachate Treatmer	nt Works within the NENTX Landfill	

	Standard Equipment Inforn	nation
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

Equipement Vertification Result								
Verification			Duration		Results from Calibrated Equipement		Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis	
1	28/11/2023	8789.68	8792.68	180.00	15648	87	96	
2	28/11/2023	8792.68	8795.68	180.00	14993	83	85	
3	28/11/2023	8795.68	8798.68	180.00	8635	48	49	
4	30/11/2023	8798.68	8801.68	180.00	10501	58	67	
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145	
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56	

Linear Regression of y on x

Slope, K factor:	<u>1.0451</u>	Intercept:	<u>2.1545</u>	*Correlation Coefficient,R:	<u>0.9957</u>
Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Andy Li Project Technician, Environmental

Date: 30-11-2023

Tandy Tse

Checked By:

Senior Consultant, Environmental

Date: 30-11-2023



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

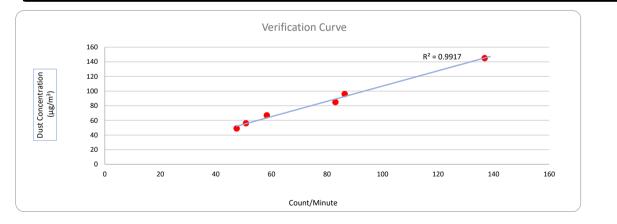
Information of Calibrated Equipement						
28-Nov-23	to	30-Nov-24	Next Verification Test Date:	28-Nov-24		
Sibata LD-5R		1				
882106						
RPT-23-HVS-0068		068				
AM2, location near the Leachate Treat		the Leachate Treatme	ent Works within the NENTX Landfill			
	RF	28-Nov-23 to Sibata LD-5R Sibata LD-5R 882106 RPT-23-HVS-00	28-Nov-23 to 30-Nov-24 Sibata LD-5R 882106 882106 RPT-23-HVS-0068	28-Nov-23 to 30-Nov-24 Next Verification Test Date: Sibata LD-5R 882106 882106		

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

	Equipement Vertification Result								
Verification			Duration		Results from	n Calibrated Equipement	Results from Standard Equipment		
Test No.	Date	Start-time End-time		Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis		
1	28/11/2023	8789.68	8792.68	180.00	15546	86	96		
2	28/11/2023	8792.68	8795.68	180.00	14944	83	85		
3	28/11/2023	8795.68	8798.68	180.00	8543	47	49		
4	30/11/2023	8798.68	8801.68	180.00	10499	58	67		
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145		
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56		

Linear Regression of y on x

ſ	Slope, K factor:	<u>1.0437</u>	Intercept:	<u>2.4993</u>	*Correlation Coefficient,R:	<u>0.9958</u>
	Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Checked By:

Andy Li Project Technician, Environmental

Date: 30-11-2023

Tandy Tse

Senior Consultant, Environmental

Date:

30-11-2023



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

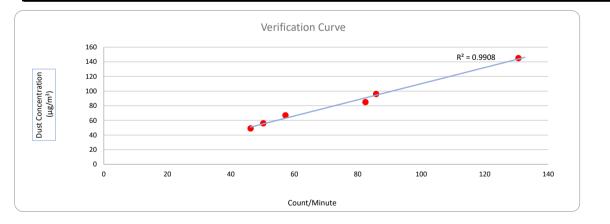
Information of Calibrated Equipement						
28-Nov-23	to	30-Nov-23	Next Verification Test Date:	28-Nov-24		
Sibata LD-5R		1				
942532						
RPT-23-HVS-0071)71				
AM2, location near the Leachate Treat		the Leachate Trea	tment Works within the NENTX Landfill			
	RF	28-Nov-23 to Sibata LD-5R 942532 RPT-23-HVS-00 0	28-Nov-23 to 30-Nov-23 Sibata LD-5R 942532 942532 RPT-23-HVS-0071	28-Nov-23 to 30-Nov-23 Sibata LD-5R 942532		

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

	Equipement Vertification Result								
Verification			Duration		Results from	a Calibrated Equipement	Results from Standard Equipment		
Test No.	Date	Start-time End-time		Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis		
1	28/11/2023	8789.68	8792.68	180.00	15446	86	96		
2	28/11/2023	8792.68	8795.68	180.00	14835	82	85		
3	28/11/2023	8795.68	8798.68	180.00	8320	46	49		
4	30/11/2023	8798.68	8801.68	180.00	10303	57	67		
5	30/11/2023	8801.68	8804.68	180.00	23517	131	145		
6	30/11/2023	8804.68	8807.68	180.00	9043	50	56		

Linear Regression of y on x

Slope, K facto	r: <u>1.1020</u>	Intercept:	<u>-0.1223</u>	*Correlation Coefficient,R:	<u>0.9954</u>
Verification Test Result	: <u>Strong Correlation, R</u>	Strong Correlation, Results were accepted.		* If the Correlation Coefficient, R is <0.5. Che	cking and Re-verification are required.



Operated By:

Checked By:

Andy Li Project Technician, Environmental

Date: 30-11-2023

Tandy Tse

Senior Consultant, Environmental

Date:

30-11-2023



Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	RION
Type No.:	NC-74
Serial No.:	34615222

Submitted by:

Customer:	Aurecon Hong Kong Limited
Address:	Unit 1608, 16/F, Tower B, Manulife Financial Centre,
	223-231 Wai Yip Street, Kwun Tong,
	Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

\checkmark	Within
	Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 21 March 2024

Date of calibration: 27 March 2024

Date of NEXT calibration: 26 March 2025

Calibrated by: Calibration Technician

Date of issue: 27 March 2024

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Certificate No.: APJ23-154-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com Page 1 of 2



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.5 °C
Air Pressure:	1005 hPa
Relative Humidity:	69.8 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.2

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-154-CC001

Page 2 of 2



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	NTi Audio
Type No.:	XL2 (Serial No.: A2A-09696-E0)
Microphone:	ACO 7052 (Serial No.:73780)
Preamplifier:	NTi Audio MA220 (Serial No.:6282)

Submitted by:

Customer: Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223-231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong.

Aurecon Hong Kong Limited

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 8kHz)
 □ Outside
 the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 28 February 2024

Date of calibration: 02 March 2024

Date of NEXT calibration: 01 March 2025

Calibrated by: Calibration Technician

Date of issue: 02 March 2024

Certificate No.: APJ23-146-CC003

Certified by:

Mr. Ng Yan Wa Laboratory Manager

age 1 of 4

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	22.9 °C
Air Pressure:	1005 hPa
Relative Humidity:	61.2 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of U	nit-under-te	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Sett	Setting of Unit-under-test (UUT)				Applied value		IEC 61672 Class 1
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

Sett	tting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
50-150	UDA	SPL	Slow	94	1000	94.1	±0.3

Page 2 of 4

Certificate No.: APJ23-146-CC003

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423Tel: (852) 2668 3423Fax:(852) 2668 6946Homepage: http://www.aa-lab.comE-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Sett	ing of Un	nit-under-t	est (UUT)	Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
		- 11-5-6			250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.1	Ref
					2000	94.4	±1.6
					4000	95.2	±1.6
					8000	94.5	+2.1; -3.1

A-weighting

Setti	Setting of Unit-under-test (UUT)				Applied value		IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	54.6	-39.4 ±2.0
		A SPL	Fast	94	63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
					250	85.4	-8.6±1.4
30-130	dBA				500	90.9	-3.2 ± 1.4
					1000	94.1	Ref
					2000	95.6	+1.2±1.6
					4000	96.2	$+1.0 \pm 1.6$
					8000	93.4	-1.1+2.1; -3.1

C-weighting

Sett	Setting of Unit-under-test (UUT)				Applied value		IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
		3C SPL	Fast	94	31.5	91.0	-3.0 ±2.0
					63	93.3	-0.8±1.5
					125	93.9	-0.2 ±1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC				500	94.2	-0.0 ± 1.4
					1000	94.1	Ref
					2000	94.2	-0.2 ±1.6
					4000	94.4	-0.8 ±1.6
					8000	91.5	-3.0 +2.1: -3.1

Certificate No.: APJ23-146-CC003



Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	\pm 0.05
	2000 Hz	\pm 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	\pm 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Certificate No.: APJ23-146-CC003



Appendix F

Environmental Monitoring Schedule

Contract No. 21/WSD/21
Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

		I	mpact Environmental Monitor	ing Schedule			
November 2024							
Sun	Mon	Tue	Wed	Thur	Fri	Sat	
1	2	3	4	5	6 Site inspecction	7	
8	9 Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	10	11 Site inspecction	12	13	14 Impact Air Quality Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a)	
15	16	17	18 Site inspecction	19	20 Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	21	
22	23	24	25	26 Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	27 Site inspecction	28	
29	30	31					
Air Quality Monitoring DM-1 - Tennis Court ne DM-2 - Chun Sing Hous DM-3 - Grace Methodis DM-4 - Block 6, Tsui C	ar Tin Ma Court se, Tin Ma Court st Church Kindergarten		NM-3 - Grace M NM-4 - Block 6, NM-4a - Road p NM-5 - Wo Tin	g Stations: ng House, Tin Ma Court lethodist Church Kindergarten Tsui Chuk Garden avement near Wang King House, Tin War House, Shatin Pass Estate Fung Street Customs Staff Quarters	g Court		



Appendix G

Air Quality Monitoring Results and Graphical Presentation



Appendix G - 1-hour TSP Monitoring Results

-1 - Tennis Cou	rt near Tin M	a Court	
Date	Time	Weather	Particulate Concentration (µg/m ³)
	8:00		58
4 Nov 2024	9:00	Fine	60
	10:00		60
	8:00		59
9 Nov 2024	9:00	Fine	62
	10:00		60
	8:00		58
15 Nov 2024	9:00	Fine	57
	10:00		59
	8:00		57
21 Nov 2024	9:00	Fine	59
	10:00		56
	8:00		58
27 Nov 2024	9:00	Fine	62
	10:00		60
		Minimum	56
		Maximum	62
		Average	59

DM-2 - Chun Sing House, Tin Ma Court									
Date	Time	Weather	Particulate Concentration (µg/m ³)						
	8:30		55						
4 Nov 2024	9:30	Fine	56						
	10:30		55						
	8:30		57						
9 Nov 2024	9:30	Fine	55						
	10:30		54						
	8:20		54						
15 Nov 2024	9:20	Fine	56						
	10:20		54						
	8:20		54						
21 Nov 2024	9:20	Fine	57						
	10:20		58						
	8:25		56						
27 Nov 2024	9:25	Fine	58						
	10:25		55						
		Minimum	54						
		Maximum	58						
		Average	56						



Appendix G - 1-hour TSP Monitoring Results

M-3 - Grace Met			
Date	Time	Weather	Particulate Concentration (µg/m ³)
	9:00		37
4 Nov 2024	10:00	Fine	37
	11:00		38
	9:00		37
9 Nov 2024	10:00	Fine	38
	11:00		38
	8:50		36
15 Nov 2024	9:50	Fine	38
	10:50		38
	8:45		35
21 Nov 2024	9:45	Fine	38
	10:45		36
	8:55		36
27 Nov 2024	9:55	Fine	36
10:55			38
		Minimum	35
		Maximum	38
		Average	37
1-4 - Block 6, Ts	sui Chuk Gard	Average	
I-4 - Block 6, T a	sui Chuk Gard Time	Average	
		Average en	37
	Time	Average en	37 Particulate Concentration (µg/m ³)
Date	Time 13:00	Average en Weather	37 Particulate Concentration (µg/m ³) 45
Date	Time 13:00 14:00	Average en Weather	37 Particulate Concentration (µg/m ³) 45 43
Date 4 Nov 2024	Time 13:00 14:00 15:00	Average en Weather	37 Particulate Concentration (µg/m ³) 45 43 41
Date 4 Nov 2024	Time 13:00 14:00 15:00 13:00	Average en Weather Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47
Date 4 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00	Average en Weather Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46
Date 4 Nov 2024 9 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00	Average en Weather Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 46
Date 4 Nov 2024 9 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05	Average en Weather Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 41 47 46 46 46 45
Date 4 Nov 2024 9 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05	Average en Weather Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 45 45 47
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05	Average en Weather Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 45 47 43
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07	Average en Weather Fine Fine Fine Fine Fine Fine Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 46 45 47 43 40
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07 14:07	Average en Weather Fine Fine Fine Fine Fine Fine Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 46 46 46 45 47 43 40 45
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024 21 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07 14:07 15:07	Average en Weather Fine Fine Fine Fine Fine Fine Fine Fine	$ \begin{array}{r} 37 \\ Particulate Concentration (\mu g/m3) \\ 45 \\ 43 \\ 41 \\ 47 \\ 46 \\ 46 \\ 46 \\ 45 \\ 43 \\ 40 \\ 45 \\ 43 \\ \end{array} $
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024 21 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07 14:07 15:07 13:00	Average en Weather Fine Fine Fine Fine Fine Fine Fine Fine	37 Particulate Concentration (μg/m ³) 45 43 41 47 46 46 46 45 47 43 40 45 43 40 45 43 45
Date 4 Nov 2024 9 Nov 2024 15 Nov 2024 21 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07 14:07 15:07 13:00 14:00	Average en Weather Fine Fine Fine Fine Fine Fine Fine Fine	37 Particulate Concentration (μg/m³) 45 43 41 47 46 45 47 46 45 47 46 45 47 43 45 43 40 45 42 41 40
Date 4 Nov 2024	Time 13:00 14:00 15:00 13:00 14:00 15:00 13:05 14:05 15:05 13:07 14:07 15:07 13:00 14:00	Average en Weather Fine Fine Fine Fine Fine Fine Fine	37 Particulate Concentration (μg/m³) 45 43 41 47 46 46 45 47 43 40 45 43 40 45 42 41 41 42 41 43 42 41 42 41 42 41 43 45 43 45 43 45 45 45



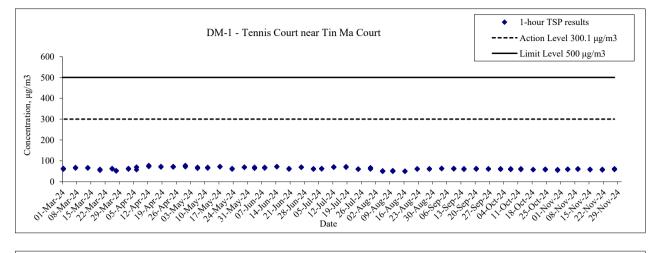
Appendix G - 1-hour TSP Monitoring Results

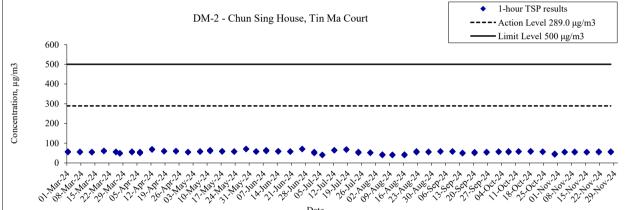
DM-4a - Road pavement near Wang King House, Tin Wang Court								
Date	Time	Weather	Particulate Concentration (µg/m ³)					
	13:15		36					
4 Nov 2024	14:15	Fine	36					
	15:15		38					
	13:15		35					
9 Nov 2024	14:15	Fine	36					
	15:15		36					
	13:15		38					
15 Nov 2024	14:15	Fine	36					
	15:15		35					
	13:20		37					
21 Nov 2024	14:20	Fine	38					
	15:20		36					
	13:15		35					
27 Nov 2024	14:15	Fine	37					
	15:15		40					
		Minimum	35					
		Maximum	40					
		Average	37					

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

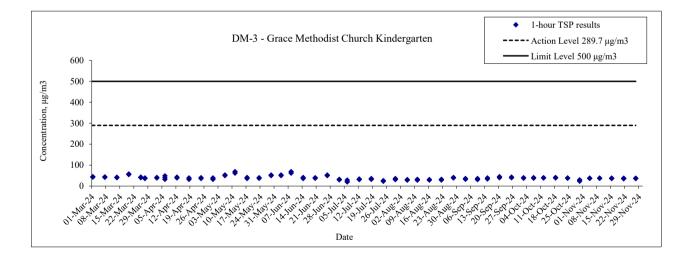


1-hour TSP Concentration Level





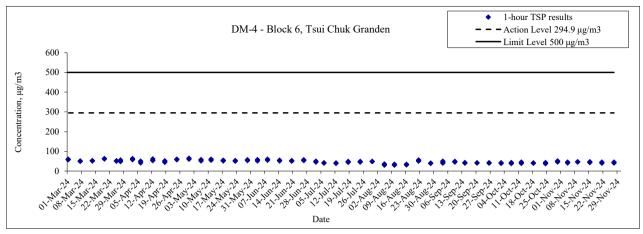


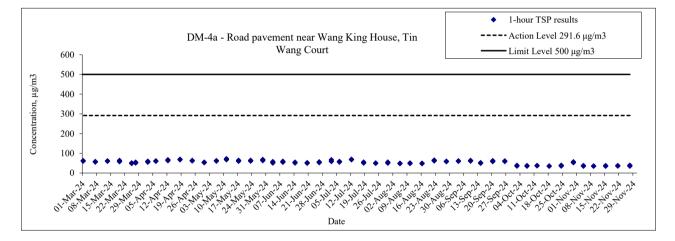


Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns











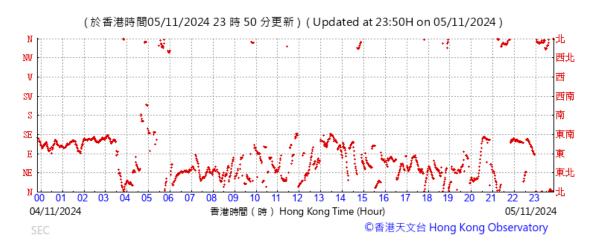
Appendix H

Extract of Meteorological Observations for Hong Kong (Kai Tak)



Appendix H - Extract of Meteorological Observations for Hong Kong (Kai Tak Wind Station)

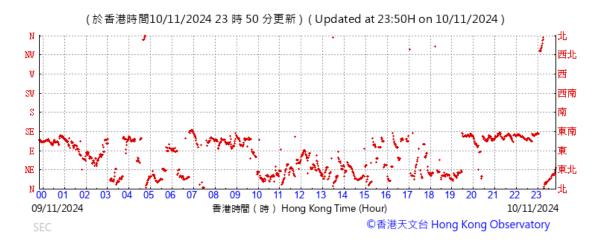
Wind Direction



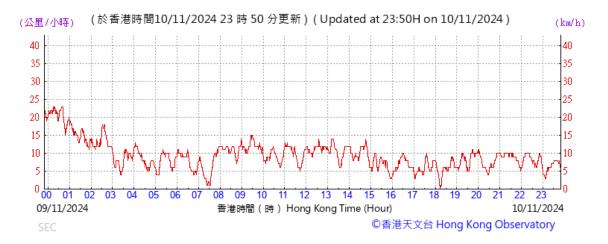




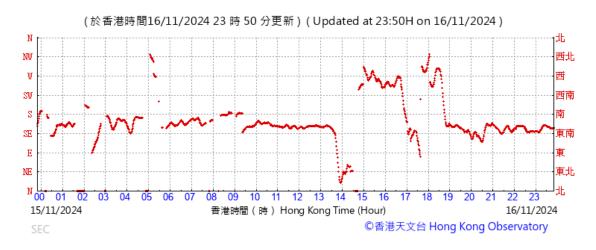




Wind Speed



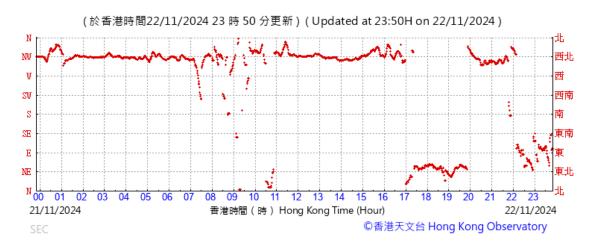




Weed Speed



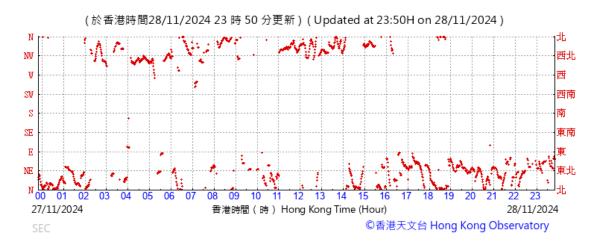




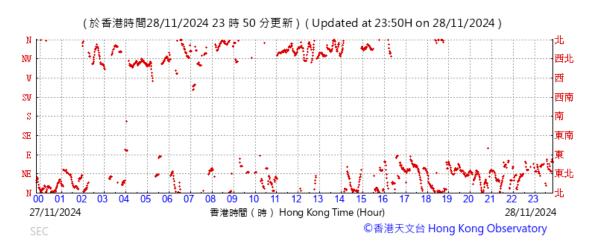
Wind Speed







Wind Speed





Appendix I

Noise Monitoring Results and Graphical Presentation



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Chun Sing House, Tin Ma Court (NM-2)

Date	Weather	Start Time	dB(A)						
Date	weather	Start Time	Leq	L10	L90	Leq(30min)			
		13:35	71.0	72.5	69.5				
		13:40	70.5	72.0	69.0				
4 Nov 2024	Fine	13:45	71.5	73.0	70.0	70.9			
4 INOV 2024	rine	13:50	70.1	71.6	68.6	/0.9			
		13:55	70.9	72.4	69.4				
		14:00	71.3	72.8	69.8				
		13:45	72.3	73.8	70.8				
		13:50	72.9	74.4	71.4				
15 Nov 2024	Fine	13:55	71.8	73.3	70.3	72.1			
15 Nov 2024	Fine	14:00	71.5	73.0	70.0	72.1			
		14:05	71.3	72.8	70.8				
		14:10	72.5	74.0	71.0				
		13:45	72.5	74.0	71.0				
		13:50	71.3	72.8	70.8				
21 Nov 2024	Fine	13:55	72.6	74.1	71.1	72.2			
21 100 2024	Thic	14:00	71.9	73.4	70.4	12.2			
		14:05	72.5	74.0	71.0				
		14:10	72.1	73.6	70.6				
		13:45	72.3	73.8	70.8				
		13:50	72.5	74.0	71.0				
27 Nov 2024	Fine	13:55	71.6	73.1	70.1	72.0			
27 100 2024	1 mc	14:00	72.1	73.6	70.6	72:0			
		14:05	71.8	73.3	70.3				
		14:10	71.5	73.0	70.0				
					Min:	70.9			
					Max:	72.2			
					Average:	71.8			

Construction Noise Monitoring Stations: Grace Methodist Church Kindergarten (NM-3)

Date	Weather	Start Time		dB(A)						
Date	weather	Start Time	Leq	L10	L90	Leq(30min)				
		14:20	58.4	59.9	56.9					
		14:25	59.5	61.0	58.0					
4 Nov 2024	Fine	14:30	57.4	58.9	55.9	58.4				
4 INOV 2024	Fille	14:35	58.9	60.4	57.4	58.4				
		14:40	57.3	58.8	55.8					
		14:45	58.6	59.1	57.1					
		14:30	58.1	59.6	56.6					
		14:35	57.9	59.4	56.4					
15 Nov 2024	Fine	14:40	58.6	60.1	57.1	58.4				
13 NOV 2024	Fine	14:45	58.4	59.9	56.9	58.4				
		14:50	59.6	61.1	58.1					
		14:55	57.7	59.2	56.2					
		14:30	57.8	59.3	56.3					
		14:35	58.4	59.9	56.9					
21 Nov 2024	Fine	14:40	58.3	59.8	56.8	58.0				
21 NOV 2024	Fille	14:45	57.9	59.4	56.4	58.0				
		14:50	58.1	59.6	56.6					
		14:55	57.3	58.8	55.8					
		14:30	57.6	59.1	56.1					
		14:35	58.5	60.0	57.0					
27 Nov 2024	Fine	14:40	57.8	59.3	56.3	58.1				
27 INOV 2024	rine	14:45	58.1	59.6	56.6	30.1				
		14:50	57.5	59.0	56.0					
		14:55	58.9	60.4	57.4					
		•	•	•	Min:	58.0				
					Max:	58.4				
					Average:	58.2				



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Block 6, Tsui Chuk Garden (NM-4)

Date	Weather	Start Time		dB(A)						
Date	weather	Start Time	Leq	L10	L90	Leq(30min)				
		10:35	53.9	55.4	52.4					
		10:40	54.5	56.0	53.0					
4 Nov 2024	Fine	10:45	53.7	55.2	52.5	54.2				
4 INOV 2024	Fille	10:50	54.8	56.3	53.3	54.2				
		10:55	53.1	54.6	51.6					
		11:00	54.7	56.2	53.2					
		10:35	53.6	55.1	52.1					
		10:40	54.7	56.2	53.2					
15 Nov 2024	Fine	10:45	54.6	56.1	53.1	54.1				
13 NOV 2024	Fine	10:50	53.9	55.4	52.4	54.1				
		10:55	53.7	54.2	52.2					
		11:00	54.2	55.7	53.7					
	Fine	10:45	53.7	55.2	52.2					
		10:50	54.1	55.6	52.6					
21 Nov 2024		10:55	54.6	56.1	53.1	54.2				
21 NOV 2024	THE	11:00	54.3	55.8	53.8	54.2				
		11:05	53.5	55.0	52.0					
		11:10	54.6	56.1	53.1					
		10:45	54.1	55.6	52.6					
		10:50	54.6	56.1	53.1					
27 Nov 2024	Fine	10:55	54.9	56.4	53.4	54.8				
27 INOV 2024	гше	11:00	55.4	56.9	53.9	54.0				
		11:05	54.7	56.2	53.2					
		11:10	54.9	56.4	53.4					
		•	•		Min:	54.1				
					Max:	54.8				
					Average:	54.3				

Construction Noise Monitoring Stations: Road pavement near Wang King House, Tin Wang Court (NM-4a)

			dB(A)				
Date	Weather	Start Time	Leq	L10	L90	Leq(30min)	With Free-Field Correction
		11:35	70.5	72.0	69.0		
		11:40	69.9	71.4	68.4		
4 Nov 2024	Fine	11:45	70.5	72.0	69.0	69.8	72.8
4 100 2024	The	11:50	69.1	70.6	67.6	09.0	72.0
		11:55	69.5	71.0	67.0		
		12:00	69.3	70.8	67.8		
		11:25	69.1	70.6	67.6		
		11:30	70.9	72.4	69.4		72.8
15 Nov 2024	Fine	11:35	69.3	70.8	67.8	69.8	
13 100 2024		11:40	69.7	71.2	68.2	09.0	
		11:45	68.9	70.4	67.4		
		11:50	70.5	72.0	69.0		
	Fine	11:35	71.0	72.5	69.5		73.0
		11:40	70.5	73.0	69.0		
21 Nov 2024		11:45	69.9	71.4	68.4	70.0	
21 NOV 2024	The	11:50	69.7	71.2	68.2	/0.0	75.0
		11:55	68.9	70.4	67.4		
		12:00	69.6	71.3	68.1		
		11:35	70.5	72.0	69.0		
		11:40	71.9	73.4	70.4		
27 Nov 2024	Fine	11:45	71.6	73.1	70.1	71.3	74.3
27 NOV 2024	Fille	11:50	71.8	73.2	70.3	/1.5	/4.5
		11:55	70.7	72.2	69.2		
		12:00	70.9	72.4	69.4		
					Min:	69.8	72.8
					Max:	71.3	74.3
					Average:	70.2	73.2



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Wo Tin House, Shatin Pass Estate (NM-5)

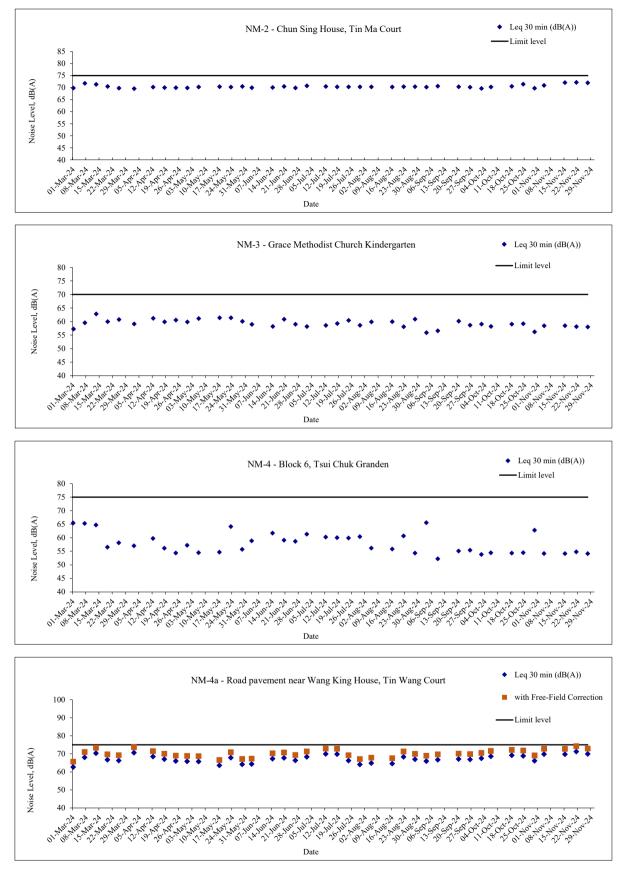
Date	Weather	Start Time		dB(A)						
Date	weather	Start Time	Leq	L10	L90	Leq(30min)				
		9:00	68.5	70.0	67.0					
		9:05	68.3	69.8	66.8					
4 Nov 2024	Fine	9:10	69.7	71.2	68.2	68.9				
4 100 2024	THE	9:15	68.7	70.2	67.5	08.9				
		9:20	69.3	70.8	68.8					
		9:25	68.8	70.3	67.3					
		9:10	69.7	71.2	68.2					
		9:15	68.1	69.6	66.6					
15 Nov 2024	Fine	9:20	68.9	70.4	67.4	68.8				
15 NOV 2024	Fine	9:25	69.0	70.5	67.5	08.8				
		9:30	68.3	69.8	66.8					
		9:35	68.7	70.2	67.2					
	Fine	9:00	68.3	69.8	67.8					
		9:05	69.5	71.0	68.0					
21 Nov 2024		9:10	68.1	69.6	66.6	68.5				
21 NOV 2024		9:15	67.9	69.4	66.4	08.5				
		9:20	68.6	70.1	67.1					
		9:25	68.7	70.2	67.2					
		9:00	69.7	71.2	68.2					
		9:05	68.9	70.4	67.4					
27 Nov 2024	Fine	9:10	69.6	71.1	68.1	69.0				
27 1100 2024	riffe	9:15	68.7	70.2	67.2	09.0				
		9:20	68.2	69.7	66.7					
		9:25	68.9	70.4	67.4					
					Min:	68.5				
					Max:	69.0				
					Average:	68.8				

Construction Noise Monitoring Stations: Sheung Fung Street Customs Staff Quarters (NM-6)

				dB(A)						
Date	Weather	Start Time	Leq	L10	L90	Leq(30min)	With Free-Field Correction			
		9:45	67.1	68.6	65.6					
		9:50	67.3	68.8	65.8					
4 Nov 2024	Fine	9:55	67.8	69.3	66.3	67.9	70.9			
4 NOV 2024	Fille	10:00	68.8	70.3	67.3	07.9	70.9			
		10:05	68.6	70.1	67.5					
		10:10	67.7	68.5	66.2					
		9:55	67.9	69.4	66.4					
		10:00	67.5	69.0	66.0		71.0			
15 Nov 2024	Fine	10:05	68.3	69.8	66.8	68.0				
13 NOV 2024		10:10	67.8	68.3	66.3	08.0				
		10:15	68.5	70.0	67.0					
		10:20	67.8	69.3	66.3					
		9:50	67.5	69.0	66.0					
		9:55	67.1	68.6	65.6					
21 Nov 2024	Eina	10:00	66.9	68.4	65.4	66.9	69.9			
21 NOV 2024	Fine	10:05	66.4	67.9	64.9	00.9	69.9			
		10:10	67.1	68.6	65.6					
		10:15	66.3	67.8	64.8					
		9:50	66.5	68.0	65.0					
		9:55	67.5	69.0	66.0					
27 Nov 2024	Fine	10:00	66.1	67.6	64.6	67.0	70.0			
27 100 2024	Fille	10:05	66.3	67.8	64.8	07.0	/0.0			
		10:10	67.8	69.3	66.3					
		10:15	67.5	69.0	66.0					
					Min:	66.9	69.9			
					Max:	68.0	71.0			
					Average:	67.5	70.5			

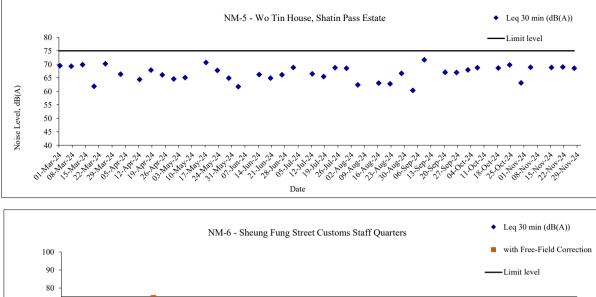


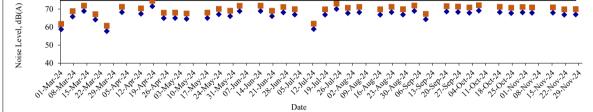
Construction Noise Monitoring Results





Construction Noise Monitoring Results







Appendix J

Waste Generation in the Reporting Month

Monthly Summary Waste Flow Table for 2023

Contract No.: 21/WSD/21

Contract Title: Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

		Actual Quantities of Iner	rt C&D Materials Ge	enerated / Imported (i	in '000m3)			Actual Qua	ntities of C&D Wastes Ge	enerated		A	ctual Quanti	ties of C&D V	/astes Recycl	ed
														Plastics (bottles/co		
Month														ntainers,pl		
Worten		Broken Concrete							Plastics					astic		
		(including rock for				Imported		Paper/	(bottles/containers,pla		Others, e.g.		Paper/	sheets/foa		
	Total Quantity	recycling into	Reused in the	Reused in other	Disposed as	C&D		cardboard	stic sheets/foam	Chemical	general		cardboard	m package		
	Generated	aggregates)	Contract	Projects	Public Fill	Material	Metals	packaging	package material)	Waste	refuse	Metals	packaging	material)	Yard Waste	Others
	(a+b+c+d)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)
Jan-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Feb-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mar-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apr-23	0.0571	0.0000	0.0000	0.0000	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.2006	0.0000	0.0000	0.0000	0.0069	0.0000
May-23	0.9598	0.0000	0.0000	0.0000	0.9598	0.0000	0.0000	0.0000	0.0000	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000
Jun-23	0.1485	0.0000	0.0000	0.0000	0.1485	0.0000	0.0000	0.0000	0.0000	0.0000	0.0380	0.0000	0.0000	0.0000	0.0000	0.0000
Sub-total	1.1655	0.0000	0.0000	0.0000	1.1655	0.0000	0.0000	0.0000	0.0000	0.0000	0.2628	0.0000	0.0000	0.0000	0.0069	0.0000
Jul-23	0.0672	0.0000	0.0000	0.0000	0.0672	0.0000	0.0000	0.0000	0.0000	0.0000	0.0062	0.0072	0.0034	0.0098	0.0000	0.0000
Aug-23	0.1859	0.0000	0.0000	0.0000	0.1859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0166	0.0058	0.0258	0.0055	0.0000	0.0000
Sept-23	0.2556	0.0000	0.0077	0.0000	0.2479	0.0000	0.0000	0.0000	0.0000	0.0000	0.0140	0.0054	0.0092	0.0042	0.0000	0.0000
Oct-23	0.1288	0.0000	0.0559	0.0000	0.0729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0109	0.0057	0.0175	0.0096	0.0000	0.0000
Nov-23	0.7188	0.0000	0.1095	0.5769	0.0324	0.0000	0.0000	0.0000	0.0000	0.0000	0.0067	0.0010	0.0043	0.0089	0.0000	0.0000
Dec-23	1.4268	0.0000	0.0655	0.8576	0.5037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0067	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9486	0.0000	0.2386	1.4344	2.2755	0.0000	0.0000	0.0000	0.0000	0.0000	0.3238	0.0251	0.0601	0.0380	0.0069	0.0000
Jan-24	0.6490	0.0000	0.0182	0.2782	0.3526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000
Feb-24	0.2876	0.0000	0.0655	0.1308	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0233	0.0000	0.0000	0.0000	0.0000	0.0000
Mar-24	2.2947	0.0000	0.0585	0.9391	1.2971	0.0000	0.0000	0.0000	0.0000	0.0000	0.0126	0.0000	0.0000	0.0000	0.0000	0.0000
Apr-24	1.0091	0.0000	0.0182	0.6731	0.3178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0141	0.0000	0.0000	0.0000	0.0000	0.0000
May-24	2.0728	0.0000	0.2505	0.5572	1.2651	0.0000	0.0000	0.0000	0.0000	0.0000	0.0226	0.0002	0.0111	0.0009	0.0000	0.0000
Jun-24	1.7738	0.0000	0.6745	0.6746	0.4247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0166	0.0032	0.0208	0.0011	0.0000	0.0000
Jul-24	0.6157	0.0000	0.0821	0.3131	0.2205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0116	0.0012	0.0146	0.0016	0.0000	0.0000
Aug-24	0.5297	0.0000	0.1241	0.1820	0.2236	0.0000	0.0000	0.0000	0.0000	0.0000	0.0281	0.0023	0.0160	0.0017	0.0000	0.0000
Sept-24	1.0022	0.0000	0.0169	0.4064	0.5789	0.0000	0.0000	0.0000	0.0000	0.0000	0.0229	0.0032	0.0133	0.0008	0.0000	0.0000
Oct-24	1.2245	0.0000	0.2358	0.0000	0.9887	1.0876	0.0000	0.0000	0.0000	0.0000	0.0493	0.0026	0.0830	0.0004	0.0000	0.0000
Nov-24	1.7171	0.0000	0.1556	0.7403	0.8212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0177	0.0015	0.0033	0.0003	0.0000	0.0000
Dec-24																
Total	13.1761	0.0000	1.6998	4.8948	6.5815	1.0876	0.0000	0.0000	0.0000	0.0000	0.2229	0.0142	0.1621	0.0068	0.0000	0.0000

Note: 1. Assume the density of soil fill is 2 ton/m3.

2. Assume the density of rock and broken concrete is 2.5 ton/m3.

3. Assume the density of non-inert C&D waste is 0.9 ton/m 3 .



Appendix K

Summary of Complaint, Notification of Summons and Prosecution and Cumulative Complaint Log



Statistical Summary of Environmental Complaints

Demontine Devie d	Environmental Complaint Statistics						
Reporting Period	Frequency	Cumulative	Complaint Nature				
1 October 2024 	0	0	N/A				
1 November 2024 30 November 2024	0	0	N/A				

Statistical Summary of Environmental Summons

Demostine Devia I	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 October 2024 	0	0	N/A		
1 November 2024 30 November 2024	0	0	N/A		

Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 October 2024 	0	0	N/A		
1 November 2024 	0	0	N/A		



Cumulative statistics on Non-compliance (exceedances)

Reporting Period	Environmental Monitoring	Parameter	No. of proj rela exceed	ject ted lances	Total no. of non-project related exceedances	No. exceed relate the pr	lances ed to oject	Total no. of exceedances related to the project
			AL	LL		AL	LL	1 5
This Reporting Period	Air Quality	1-hour TSP	0	0	0	0	0	0
(1 – 30 November 2024)	Noise	Leq(30-min)	0	0	0	0	0	0
Total no. recorded since	Air Quality	1-hour TSP	0	0	0	0	0	0
project commencement	Noise	Leq(30-min)	0	1	1	0	0	0

Cumulative Complaint Log

EPD Complaint	Date of	Complaint	Complaint	Investigation /	Status
Ref No.	Complaint	Location	Details	Mitigation Action	
-	-	-	-	-	-