Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che

Monthly Environmental Monitoring and Audit (EM&A) Report

Wing Tat Civil Engineering Co. Limited

Revision: 2

2024-09-12

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Document control record

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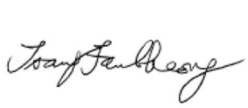
Document control						
Report title	Monthly Environmental Monitoring and Audit (EM&A) Report					
Document code	EM&A-07		**Project number**	P525672		
File path						
Client	Wing Tat Civil Engineering Co. Limited					
Client contact			**Client reference**			
Rev	**Date**	**Revision details/status**	**Author**	**Reviewer**	**Verifier** (if required)	**Approver**
0	2024-09-10	Draft	Jason Man	F. C. Tsang		Kevin Li
1	2024-09-11	First Issue	Jason Man	F. C. Tsang		Kevin Li
2	2024-09-12	Second Issue	Jason Man	F. C. Tsang		Kevin Li
Current revision	**2**					

Approval			
Author signature		Certified by	
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Contract No. PM 10/2022 -
Independent Environmental Checker for Drainage Improvement Works at Yuen Long – Stage 2

Verification of Monthly EM&A Report (August 2024)

12 September 2024

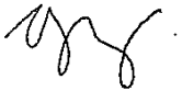
Dear Sir,

We refer to the Monthly EM&A Report under the captioned Project, which was certified on 12 September 2024 by the Environmental Team Leader appointed under Condition 2.1 of the Environmental Permit No. EP-596/2021 (hereinafter referred to as "EP").

We would like to inform you that we have no adverse comment on the captioned submission. Therefore, we hereby verify the abovementioned submission in accordance with EP Conditions 1.9 and 4.4.

Should you have any queries regarding the captioned, please contact our Hin Chan at 2828 5764 or the undersigned at 2828 5751.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



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Executive Summary

A1. This is the 7th Monthly Environmental Monitoring and Audit (EM&A) Report for Drainage Improvement Works Near Four Villages in Yuen Long (the Project). This report was prepared by Aurecon Hong Kong Limited under Contract No. DC/2022/02 Drainage Improvement Works at Yuen Long – Stage 2 (hereinafter called the "Contract"). This report documents the findings of EM&A works during the reporting period from 1 to 31 August 2024.

Key Construction Works in the Reporting Period

A2. A summary of construction activities undertaken during the reporting period is presented below:

Ha Che

- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

Lin Fa Tei

- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

Sung Shan New Village

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

Monitoring and Audit Programme

A3. The monthly EM&A programme was undertaken by the ET in accordance with the approved Updated EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented in **Table A1**.

Table A1 Summary of EM&A activities in the Reporting Period

EM&A Activities	Date
Water Quality Monitoring	Ha Che, Lin Fa Tei and Sung Shan New Village: 1, 3, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27, 29 and 31 August 2024
Noise Monitoring	Ha Che, Lin Fa Tei and Sung Shan New Village: 7, 16, 23 and 28 August 2024
Weekly Environmental Site Inspection	7, 14, 21 and 27 August 2024

Breaches of Action and Limit Levels

A4. No exceedance was recorded in the reporting month. Summary of the environmental exceedance for the reporting month is tabulated in **Table A2**.

Table A2 Summary of Exceedances in the Reporting Period

Environmental Monitoring	Parameter	No. of non-project related exceedances		Total No. of non-project related exceedances	No. of exceedances related to the the project		Total No. of exceedance related to the project
		AL	LL		AL	LL	
Water Quality	DO	0	0	0	0	0	0
	Turbidity	0	0	0	0	0	0
	SS	0	0	0	0	0	0
Noise	$L_{eq(30mins)}$	0	0	0	0	0	0

Water Quality

A5. Water quality monitoring was conducted as scheduled in the reporting period. No exceedance during impact water quality monitoring was recorded during reporting period.

Noise

A6. No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.

Complaint Log

A7. No environmental complaint was received in the reporting period.

Notification of Summons and Successful Prosecutions

A8. No notification of summons or successful prosecutions was received in the reporting period.

Reporting Changes

A9. Construction works at Tai Wo are only allowed during dry season (i.e. October to March) in accordance with Condition 3.2 of EP No.: EP-596/2021. Thus, the construction EM&A programme

at Tai Wo, including impact water quality monitoring, impact noise monitoring and weekly inspection, are temporarily suspended during the reporting period.

A10. The noise monitoring at LFT_M7 have been suspended since 27 March 2024 due to the objection from property management office for providing access to designated monitoring location. The property management office formally refused our application of access right LFT_M7 on 29 May 2024. An alternative monitoring location LFT_M6 was proposed to replace LFT_M7 and agreed with the ER and the IEC on 29 May 2024 and 4 June 2024 respectively, impact noise monitoring was thus carried out at LFT_M6 from 4 June 2024 onward.

Future Key Issues

A11. The major site activities for the next reporting period are summarized below:

Ha Che

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction
- Removal of Sheet piles, Drain Laying works, Reinstatement

Lin Fa Tei

- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

Sung Shan New Village

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

1 Introduction

1.1 Project Background

1.1.1 The Drainage Master Plan Studies for the Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Basin (YLDMP) were completed in 1998. The majority of the improvement works in Yuen Long and Kam Tin recommended under the YLDMP Study have been completed. Since completion of the DMP Studies, there have been changes in developments within the areas and new development proposals and town planning studies were commissioned. In addition, some new flooding complaints were received at the upstream areas of the drainage basins, indicating that further improvement to the drainage systems was required.

1.1.2 The Drainage Services Department (DSD) commissioned the "Review of Drainage Master Plans in Yuen Long and North Districts – Feasibility Study" (the Review Study) in 2008 so that the new development scenarios could be incorporated and the effectiveness of the previously recommended works could also be assessed. The Review Study completed in end 2011 identified that some areas in Yuen Long District could not meet the required flood protection level according to the latest land use changes and future developments taking into account various factors, including sedimentation at the downstream main channels, mangrove growth at river estuaries, updated extreme sea level statistics at Tsim Bei Tsui and projected climate change impacts, in the hydraulic analysis. To account for the severity and extent of possible flooding and the works implementation time, the Review Study proposed drainage improvement works in Yuen Long District.

1.1.3 Atkins China Ltd (ACL) was commissioned by the DSD in November 2013 to undertake an Investigation, Design and Construction Consultancy entitled "Agreement No. CE 22/2013 (DS) Drainage Improvement Works in Yuen Long, Stage 1 – Investigation, Design and Construction" (hereinafter called the Assignment). The Project comprises construction of drainage improvement works to four villages (namely Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che) including landscaping, waterscaping, utilities diversion, temporary traffic arrangements, re-provisioning / improvements to existing dry weather flow intercepting system and any other works incidental to the completion of the Project.

1.1.4 An Environmental Impact Assessment (EIA) Study Brief (ESB-279/2014) for four villages namely Ha Che, Tai Wo, Lin Fa Tei and Sung Shan New Village which is a designated project was issued by the Environmental Protection Department (EPD) on 14 October 2014.

1.1.5 The EIA Report for Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che (referred to as "the Project") (Register No. AEIAR-229/2021) was approved on 3 June 2021 and the Environmental Permit (EP) EP-596/2021, covering the Upgrading, Construction and Deepening of the Project was granted on 28 September 2021.

1.1.6 Aurecon Hong Kong Limited (Aurecon) is commissioned by the Wing Tat Civil Engineering Co. Limited to undertake the Environmental Team (ET) services and carry out the Environmental Monitoring and Audit (EM&A) for Drainage Improvement Works Near Four Villages in Yuen Long - Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che (Register No. EP-596/2021).

1.1.7 This is the 7th Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 1 to 31 August 2024 (the reporting period) and is submitted to fulfil the requirements in Condition 4.4 of EP-596/2021 and Section 12.2 of the approved Updated EM&A Manual of the Project.

1.2 Construction Works Programme

1.2.1 The construction programme and the location plan of the Project are shown in **Appendix 1.1** and **Figure 1.1** respectively. The locations of the proposed drainage improvement works at the four villages are presented in **Figures 1.2a** to **Figures 1.2d**.

1.3 Project Organisation

1.3.1 Involvement of relevant parties in a collaborative and interactive manner is essential for the implementation of the recommended EM&A programme. The following sections outline the primary responsibilities and duties of the key EM&A programme participants. The lines of communication with respect to EM&A works are shown in **Diagram 1.1**.

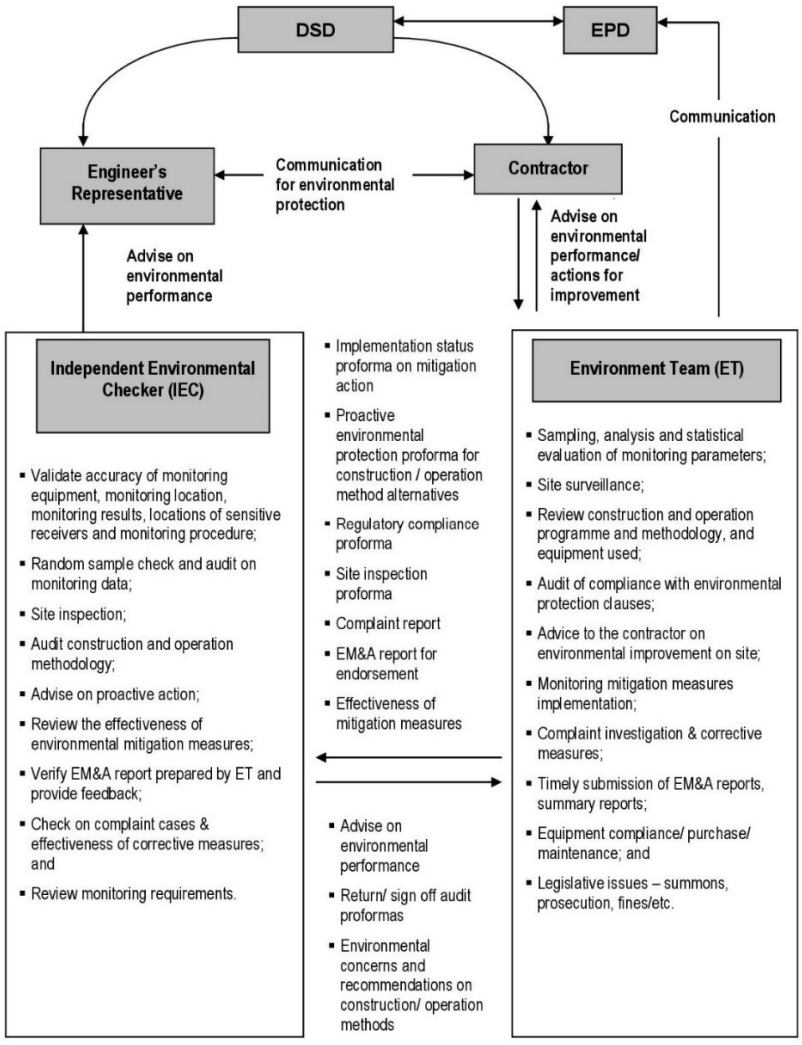


Diagram 1.1 Organisation Chart

1.3.2 Parties with different levels of involvement in the Project organisation are summarized in **Table 1.1**.

Table 1.1 Parties Involved in Project Organisation

Parties	Organization / Company
Project Proponent	**Drainage Services Department**
Supervisor / Engineer's Representative (ER)	Atkins China Ltd
Contractor	Wing Tat Civil Engineering Co. Limited
Environmental Team (ET)	Aurecon Hong Kong Limited
Independent Environmental Checker (IEC)	Mott MacDonald Hong Kong Limited

1.3.3 The key personnel contact names and numbers are summarized in **Appendix 1.2**.

1.4 Construction Works Programme and Construction Works Area

1.4.1 The construction works commenced on 20 February 2024. The construction works programme and the construction works area of the Project are shown in **Appendix 1.1** and **Figure 1.1** respectively. A summary of construction activities undertaken during this reporting period is presented below:

Ha Che

- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

Lin Fa Tei

- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

Sung Shan New Village

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

1.5 Summary of Environmental Status

1.5.1 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 1.2**.

Table 1.2 Status of Environmental License, Notifications and Permits

Permit / License No.	Valid Period		Status
	From	To	
Environmental Permit			
EP-596/2021	28/09/2021	N/A	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation			
Ref. Number: 497623	29/09/2023	N/A	Valid
Billing Account for Disposal of Construction Waste			
7048880	18/10/2023	N/A	Valid
Registration of Chemical Waste Producer			
5213-526-W3771-01	02/11/2023	N/A	Valid
Effluent Discharge License under Water Pollution Control Ordinance			
Lin Fa Tei WT10002494-2023	24/05/2024	31/05/2029	Valid
Tai Wo WT10002495-2023	29/07/2024	31/07/2029	Valid
Ha Che WT10002496-2023	26/04/2024	30/04/2029	Valid
Sung Shan New Village WT10002497-2023	10/07/2024	31/07/2029	Valid
Construction Noise Permit (CNP)			
Lin Fa Tei GW-RN0852-24	24/07/2024	07/01/2025	Valid
Ha Che GW-RN0980-24	26/08/2024	31/01/2025	Valid

1.5.2 The status for all environmental aspects is presented in **Table 1.3**.

1.5.3 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the approved Updated EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the Approved Updated EM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under Approved Updated EM&A Manual	The baseline water quality monitoring results have been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 4.3.
Impact Monitoring	The regular impact water quality monitoring was commenced at Ha Che on 21 February 2024. Since construction works were commenced at Lin Fa Tei and Tai Wo on 20 March 2024, impact water quality monitoring at Lin Fa Tei (i.e. C6, C7A and C8) and Tai Wo (i.e. C4 and C5) were started 20 March 2024. Impact water quality monitoring at Sung Shan New Village (i.e. C1A, C2 and C3A) was commenced on 17 April 2024 since the construction work at Sung Shan New Village was begun on 16 April 2024. Construction works at Tai Wo are only allowed during dry season (i.e. October to March) in accordance with Condition 3.2 of EP No. EP-596/2021. Thus, the impact water quality monitoring at Tai Wo is temporarily suspended during the reporting period.
Noise	
Baseline Monitoring	Up to the end of the reporting period, the baseline noise monitoring results for Ha Che have been reported in the Baseline Monitoring Report and submitted to the EPD under EP Condition 4.3. Baseline noise monitoring results for Tai Wo, Lin Fa Tei, and Sung Shan New Village will be further updated in the Baseline Monitoring Report and submitted to the EPD. The revised Baseline Monitoring Report was submitted to EPD for acceptance on 4 July 2024.
Impact Monitoring	The weekly impact noise monitoring was commenced at Ha Che on 23 February 2024. Since construction works were commenced at Lin Fa Tei and Tai Wo on 20 March 2024, impact noise monitoring at Lin Fa Tei (i.e. LFT_M1, LFT_M3A, LFT_M7 and LFT_M11) and Tai Wo (i.e. TW_M2 and TW_M3) were started 20 March 2024. Impact noise monitoring at Sung Shan New Village (i.e. SSNV_M2, SSNV_M3 and SSNV_M6) was commenced on 19 April 2024 since the construction work at Sung Shan New Village was begun on 16 April 2024. Construction works at Tai Wo are only allowed during dry season (i.e. October to March) in accordance with Condition 3.2 of EP No.: EP-596/2021. Thus, the impact noise monitoring at Tai Wo is temporarily suspended during the reporting period. The noise monitoring at LFT_M7 have been suspended since 27 March 2024 due to the objection from property management office for providing access to designated monitoring location. The property management office formally refused our application of access right LFT_M7 on 29 May 2024. An alternative monitoring location LFT_M6 was proposed to replace LFT_M7 and agreed with the ER and the IEC on 29 May 2024 and 4 June 2024 respectively, impact noise monitoring was thus carried out at LFT_M6 from 4 June 2024 onward.
Ecology	

Parameters	Status
Freshwater Crab Translocation Plan (FCTP)	The EPD had no further comment on the submitted FCTP on 9 February 2024. A formal reply letter was issued by the EPD on 4 July 2024 after the submission of hardcopy for their record. Pre-construction survey at Ha Che was carried out between 5 and 7 February 2024. Pre-construction survey at Lin Fa Tei was carried out between 11 and 13 March 2024.
Habitat Creation and Management Plan (HCMP)	The first draft of HCMP was submitted to the EPD and the Agriculture, Fisheries and Conservation Department (AFCD) on 22 December 2023. Following comments from the EPD and AFCD dated 17 January 2024, the revised HCMP was submitted to EPD and AFCD for further review. Further comment was received from EPD on 27 May 2024, the revised HCMP was submitted to EPD for approval on 13 June 2024. It was accepted by EPD on 9 July 2024.
Mitigation Measures listed in Approved Updated EM&A Manual	On-going
Waste Management	
Mitigation Measures listed in Approved Updated EM&A Manual	On-going
Land Contamination	
Mitigation Measures listed in Approved Updated EM&A Manual	No suspected contamination was observed or reported by the Contractor in the reporting period.
Landscape and Visual	
Landscape and Visual Mitigation Plan (LVMP)	The first draft of LVMP was submitted to the EPD, the AFCD and the Planning Department (PlanD) on 22 December 2023. Following comments from the EPD, AFCD and PlanD on 7 February 2024, the LVMP is pending for further revision. The updated LVMP was submitted to EPD for review on 24 July 2024. Comment for LVMP (Rev. 6) was received from EPD on 16 August 2024, the revision of LVMP (Rev. 7) is under preparation.
Weekly Site Audit	On-going
Mitigation Measures listed in Approved Updated EM&A Manual	On-going
Cultural Heritage	
Archaeological Survey	Archaeological Survey will be carried out at site area within Lin Fa Tei of Archaeological Interest.
Mitigation Measures listed in Approved Updated EM&A Manual	On-going
Environmental Audit	

Parameters	Status
Site Inspection covering Measures of Air Quality, Noise, Water Quality, Waste, Land Contamination, Ecological Quality, Landscape and Visual Impacts and Cultural Heritage	On-going

2 Water Quality

2.1 Monitoring Requirement

2.1.1 In accordance with the approved Updated EM&A Manual, impact water quality monitoring should be carried out three days per week at all designated monitoring stations during the construction period. The interval between two sets of monitoring should not be less than 36 hours.

2.1.2 Replicate in-situ measurements of dissolved oxygen (DO), temperature, pH, turbidity, salinity, water depth and suspended solids (SS) for each independent sampling event shall be collected to ensure a robust statistically interpretable database.

2.2 Monitoring Location

2.2.1 Impact water quality monitoring was conducted at 8 monitoring stations which is summarized in **Table 2.1**. The location of water quality monitoring stations is shown in **Figure 2.1a** to **Figure 2.1d**.

Table 2.1 Summary of Impact Water Quality Monitoring Stations

Stream	Monitoring ID	Coordinates (HK Grid)		Remarks
		Easting	Northing	
SSNV	C1A (1)	821702	831945	Alternative Impact Monitoring Point
	C2	822459	831470	Control Monitoring Point
	C3A (2)	822413	831284	Alternative Control Monitoring Point
TW	C4 (3)	825497	830664	Control Monitoring Point
	C5 (3)	825486	830716	Impact Monitoring Point
LFT	C6	827232	831713	Control Monitoring Point
	C7A (4)	826865	832115	Alternative Control Monitoring Point
	C8	826513	832075	Impact Monitoring Point
HC	C9	828304	835029	Control Monitoring Point
	C10	827919	834271	Impact Monitoring Point

Notes:

(1) At Station C1, access to safe sampling of water is not feasible due to steep banks on both sides of the stream channel. An alternative monitoring location is proposed at Station C1A, which is about 250 m along the same stream channel downstream of Station C1 and is accessible for safe water sampling.

(2) During the first day of baseline monitoring at Station C3, shallow water was observed, and the ET could not sample enough water for monitoring. As agreed by the ER, the Contractor, and the IEC, a new sampling location, Station C3A, was identified at about 130 m upstream and was accessible for water sampling.

(3) Construction works at Tai Wo are only allowed during dry season (i.e. October to March) in accordance with Condition 3.2 of EP No.: EP-596/2021. Thus, the impact water quality monitoring at Tai Wo was temporarily suspended during the reporting period.

(4) For Station C7, the location is not close to the nearest, revised works boundary (about 200 m away). An alternative monitoring location is proposed at Station C7A, which is about 23 m upstream of the nearest, revised works boundary.

2.3 Monitoring Parameter and Frequency

2.3.1 The monitoring parameters, frequency and duration of impact water quality monitoring are listed in **Table 2.2**.

Table 2.2 Parameters measured in the Impact Water Quality Monitoring

Parameter	Frequency	Duration
Dissolved oxygen (DO), temperature, turbidity, salinity, pH, stream water depth and suspended solids (SS)	3 days in a week	Throughout the construction phase

2.3.2 Monitoring location and position, time, sampling depth, weather conditions and any special phenomena or work underway nearby are recorded during the impact monitoring.

2.4 Sampling Depths & Replication

2.4.1 During impact water quality monitoring, each station was sampled. Due to a shallow water depth (less than 3 m) with low flow rates in rivers, all the monitoring would be located at mid-depth level.

2.4.2 Duplicate water samples were collected at each sampling depth for laboratory measurement of SS. Samples were stored in high density polythene bottles, packed in ice (cooled to 4 °C without being frozen), and delivered to the laboratory on the same day of collection for analysis.

2.5 Monitoring Equipment

2.5.1 The measurement of DO, temperature, turbidity, salinity, pH and stream water depth were undertaken in-situ. In-situ monitoring instruments in compliance with the specifications listed under Section 2.3 of Appendix 4 of the approved Updated EM&A Manual were adopted to undertake the water quality monitoring for the Project. Water quality monitoring equipment with the following specifications shall be supplied and maintained by the ET.

<u>Dissolved Oxygen and Temperature Measuring Equipment</u>

2.5.2 The instrument for measuring dissolved oxygen and temperature should be portable and weatherproof complete with cable, sensor, and use DC power source. The equipment was capable of measuring:

- A dissolved oxygen level in the range of 0 – 20 mg/L and 0 – 200% saturation; and
- The temperature within 0 – 45 °C.

2.5.3 It should have a membrane electrode with automatic temperature compensation connected with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

pH

2.5.4 pH meter (e.g. Hanna – HI 9024 or equivalent) should be used to measure pH value of water samples in-situ. It should be readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 to pH 10 shall be used for calibration of the instrument before and after use.

Turbidity Measurement Equipment

2.5.5 The instrument should be a portable, weatherproof turbidity-measuring instrument with a comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0 – 1000 NTU and be equipped with a cable (e.g. Hach model 2100P or an approved similar instrument).

Suspended Solids

2.5.6 A water sampler should comprise a transparent PVC cylinder, with a capacity of not less than 2 litres, and should be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

2.5.7 Water samples for suspended solids measurement shall be collected in high density polythene bottles, packed in ice (chilled to 4 °C without being frozen), and delivered to the laboratory as soon as possible after collection.

Water Depth Detector

2.5.8 A portable, battery-operated echo sounder should be used for determining water depth at each designated monitoring station.

2.5.9 For shallow water (less than 1 m deep), a portable water depth ruler will be used to measure water depth.

Monitoring Position Equipment

2.5.10 A hand-held or boat-fixed digital Global Positioning System (GPS) or other equivalent instrument of similar accuracy shall be provided and used during water quality monitoring to ensure the water sampling locations are correct during water quality monitoring work.

Water Sampling Equipment

2.5.11 A transparent PVC or glass cylinder, which has a volume of not less than 2 litres and can be sealed at both ends with cups, should be equipped with a positive latching system. During the water sampling, a messenger is released to trigger the closure of the water sampler at suitable water depth.

2.5.12 For sampling location with shallow water depth, plastic bucket would be used instead.

Calibration of In-situ Instruments

2.5.13 All in-situ monitoring instruments should be checked, calibrated and certified by a laboratory accredited under HOKLAS or another international accreditation scheme before use, and subsequently re-calibrated at 3-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter should be carried out before measurement at each monitoring location.

2.5.14 For the on-site calibration of field equipment, the BS 127:1993, Guide to Field and On-Site Test Methods for the Analysis of Water should be observed.

Back-up Equipment

2.5.15 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterruptedly even when some equipment is under maintenance, calibration, etc.

2.5.16 **Table 2.3** summarizes the equipment used in the water quality monitoring programme. Copies of the calibration certificates of multi-parameter water quality monitoring system are shown in **Appendix 2.1**.

Table 2.3 Water Quality Monitoring Equipment

Equipment	Model	Quantity	Serial No.	Parameter	Range	Accuracy
Water Sampler	Wildco 2.2L Water Sampler with messenger or plastic bucket (used in shallow water depth)	1	N/A	N/A	N/A	N/A
Multi-functional Water Quality Meter	YSI ProDSS (multi-parameters)	3	15M101091 22C106561 and 24G101660	Dissolved Oxygen (DO)	0 to 500%	• 0 to 200%: ±1% of reading • 200 to 500%: ±8% of reading
					0 to 50 mg/L	• 0 to 20 mg/L: ±0.1 mg/L or 1% of reading, whichever is greater • 20 to 50 mg/L: ±8% of reading
				Temperature	-5 to 50 °C	±0.2 °C
				pH	0 to 14 pH units	±0.2 pH units
				Turbidity	0 to 4000 NTU	• 0 to 999 NTU: 0.3 NTU or ±2% of reading, whichever is greater • 1000 to 4000 NTU: ±5% of reading
				Salinity	0 to 70 ppt	• ±1.0% of reading or ±0.1 ppt, whichever is greater
Water Depth Ruler	鼎峯 0708	1	N/A	Water depth	0 – 7 m (Used for water depth less than 1 m)	±0.01 m
Positioning Equipment	Garmin (GPSmap 78s)	1	1WL223754	Positioning	N/A	GPS: ±1m

2.6 Monitoring Methodology

2.6.1 Water samples were collected at an appropriate water depth using a sealable transparent PVC or glass cylinder. For locations with shallow water depth, a plastic bucket was used as an alternative. Usually, water was then transferred to the sample bottles until they were filled to the top with no remaining air space before the lid was securely screwed on. For samples that were preserved with acid or alkalis prior to transport to the laboratory, the samples bottles were filled to the level specified by the analytical laboratory.

2.6.2 Multi-functional water quality meters were checked, calibrated and certified by Quality Pro Test-Consult Limited (HOKLAS reg no. 259) before use, and would be subsequently re-calibrated at 3-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter should be carried out before measurement at each monitoring location. For the on-site calibration of field equipment, the BS 127:1993, Guide to Field and On-Site Test Methods for the Analysis of Water should be observed.

2.6.3 Water samples for suspended solids measurement were collected in high density polythene bottles, packed in ice (chilled to 4 °C being frozen), and delivered to the laboratory as soon as possible after collection.

2.6.4 Water sampling equipment deployed during the monitoring programme was decontaminated by manual washing and rinsed with clean distilled water after each sampling location.

2.6.5 All sampling bottles were labelled with the sample ID (including the indication of sampling station), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4 °C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory. The laboratory determination works started within 24 hours after collection of water samples.

Laboratory Analytical Methods

2.6.6 Analysis of SS was carried out by a HOKLAS accredited laboratory (Acumen Laboratory and Testing Limited). At least two replicate samples from each independent sampling event were collected for the SS measurement. Sufficient water samples (about 3,000 mL) were collected at the monitoring stations for carrying out the laboratory SS determination. The analytical method for suspended solids is presented in **Table 2.4**.

Table 2.4 Method for Laboratory Analysis for Water Samples

Parameters	Analytical Method	Detection Limit
Suspended Solid (SS)	APHA 17ed 2540-D (1)	1 mg/L or better

Note:
(1) APHA American Public Health Association Standard Methods for the Examination of Water and Wastewater.

2.7 QA/QC Requirements

Decontamination Procedures

2.7.1 Water sampling equipment used during the course of the monitoring process was decontaminated by manual washing and rinsed with distilled water after each sampling event. All of the disposable components/ accessories were discarded after sampling.

Sampling Management and Supervision

2.7.2 All sampling bottles were labelled with the sample ID numbers (including the sampling station), and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible. All the collected samples were stored in a cool box to keep the temperature less than 4 as possible after the sampling. All samples were stored in a cool box and kept at less than 4 °C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.

Quality Control Measures for Sample Testing

2.7.3 Quality control of laboratory analysis of water samples was performed by Acumen Laboratory and Testing Limited for every batch of 20 samples:

- One method blank; and
- One set of QC sample

2.8 Action and Limit Level for Water Quality Monitoring

2.8.1 The criteria of action and limit levels for water quality monitoring are defined in **Table 2.5**.

Table 2.5 Action and Limit Levels for Water Quality

Parameters	Action Level	Limit Level
DO in mg/L	< 5%-ile of baseline data	< 4 mg/L or < 1%-ile of baseline data
SS in mg/L	> 95%-ile of baseline data or >120% of upstream control station of the same day, whichever is higher	> 99%-ile of baseline data or 130% of upstream control station of the same day, whichever is higher
Turbidity in NTU	> 95%-ile of baseline data or >120% of upstream control station of the same day, whichever is higher	> 99%-ile of baseline data or > 130% of upstream control station of the same day, whichever is higher

Notes:
(1) For DO, non-compliance of the water quality limit occurs when monitoring result is lower than the limit.
(2) For SS and turbidity, non-compliance of the water quality limit occurs when monitoring result is higher than the limits
(3) All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered necessary.

2.8.2 Based on the criteria listed in **Table 2.5**, the action and limit levels for water quality are determined in **Table 2.6**.

Table 2.6 Action and Limit Levels of Water Quality

Stream	Monitoring ID	Parameters	Action	Limit
SSNV	C1A	DO in mg/L	<6.72	<4 (1)
		SS in mg/L	>7.3 or >120% of upstream control station of the same day, whichever is higher	>8.5 or > 130% of upstream control station of the same day, whichever is higher
		Turbidity in NTU	>10.37 or >120% of upstream control station of the same day, whichever is higher	>10.81 or > 130% of upstream control station of the same day, whichever is higher
TW	C5	DO in mg/L	<8.36	<4 (2)
		SS in mg/L	>9.9 or > 120% of upstream control station of the same day, whichever is higher	>10.0 or > 130% of upstream control station of the same day, whichever is higher
		Turbidity in NTU	>13.64 or > 120% of upstream control station of the same day, whichever is higher	>13.87 or > 130% of upstream control station of the same day, whichever is higher
LFT	C8	DO in mg/L	<5.38	<4 (3)
		SS in mg/L	>6.3 or > 120% of upstream control station of the same day, whichever is higher	>7.0 or > 130% of upstream control station of the same day, whichever is higher
		Turbidity in NTU	>12.46 or > 120% of upstream control station of the same day, whichever is higher	>12.94 or > 130% of upstream control station of the same day, whichever is higher
HC	C10	DO in mg/L	<2.55	<2.43 (4)
		SS in mg/L	>8.7 or > 120% of upstream control station of the same day, whichever is higher	>8.8 or > 130% of upstream control station of the same day, whichever is higher
		Turbidity in NTU	>20.06 or > 120% of upstream control station of the same day, whichever is higher	>21.07 or > 130% of upstream control station of the same day, whichever is higher

Notes:

(1) The 1%-ile of baseline DO data at C1A is 6.61 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.

(2) The 1%-ile of baseline DO data at C5 is 8.09 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.

(3) The 1%-ile of baseline DO data at C8 is 5.36 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.

(4) The 1%-ile of baseline DO data at C10 is 2.43 mg/L, which is lower than 4 mg/L. Taking account of the baseline water quality condition and to minimise any false alarm of water quality deterioration during construction phase, DO concentration of 2.43 mg/L is adopted as the limit level.

2.9 Event and Action Plan

2.9.1 Should any non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix 2.2** shall be followed. Investigation of the exceedances of environmental quality performance limits should be conducted, and the ET will immediately notify the IEC and EPD, as appropriate. The notification should be followed up with advice to the IEC and EPD on the results of the investigation, proposed actions and success of the action taken, with any necessary follow-up proposals.

2.10 Results and Observations

2.10.1 Impact water quality monitoring was conducted as scheduled in the reporting month. The water quality monitoring schedule for this reporting month is shown in **Appendix 2.3**. The monitoring results and graphical presentation of water quality monitoring at the monitoring stations are shown in **Appendix 2.4**.

2.10.2 After confirmation of exceedance of the water quality monitoring results, ET has issued Notification of Exceedance (NOE) to inform relevant parties (i.e., EPD, ER, IEC and Contractor) about the exceedances. No exceedance during impact water quality monitoring was recorded during reporting period. The exceedance of impact water quality monitoring in the reporting Period is summarised in **Table 2.7**.

Table 2.7 Summary of Exceedance Records of Water Quality Monitoring in the Reporting Period

Parameter	No. of non-project related exceedances(1)		Total No. of non-project related exceedances	No. of exceedance related to the Project		Total No. of exceedance related to the Project
	AL	LL		AL	LL	
Dissolved Oxygen	0	0	0	0	0	0
Turbidity	0	0	0	0	0	0
Suspended Solids	0	0	0	0	0	0

3 Noise

3.1 Monitoring Locations

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

Table 3.1 Noise Monitoring Stations during Construction Phase

ID No. (1)	Location	Nature of Uses	Type of Measurement
SSNV_M2	Village house next to a nullah in Tong Tai Po Tsuen (near DD118 1720 S.A)	Residential	Façade
SSNV_M3	Village house near a soybean sauce factory in Sung Shan New Village (near DD118 1712)	Residential	Façade
SSNV_M6	#43, Sung Shan New Village	Residential	Free-field
TW_M2	#200, Cheung Po	Residential	Free-field
TW_M3	Kai Yip Garden, #3H, Tai Wo	Residential	Free-field
LFT_M1	#2G, Lin Fa Tei	Residential	Façade
LFT_M3A (2)	Near #125B, Lin Fa Tei	Residential	Free-field
LFT_M5	#156B, Lin Fa Tei	Residential	Façade
LFT_M6 (3)	#47, Shui Tsan Ti	Residential	Façade
LFT_M11 (2)	#210, Ngau Keng Tsuen	Residential	Façade
HC_M3A (2)	Next to DD111 326 S.B RP near Fan Kam Road	-	Free-field
HC_M4	#1C, Chuk Hang	Residential	Façade
HC_M6	The Arbutus House 12, #52, Shui Kan Shek	Residential	Façade

Notes:

(1) SSNV – Sung Shan New Village; TW – Tai Wo; LFT – Lin Fa Tei; HC – Ha Che.

(2) LFT_M3A, LFT_M11, HC_M3A and are alternative noise monitoring stations proposed to replace LFT_M3, LFT_M13 and HC_M3, respectively.

(3) Due to the objection from property management office for providing access to designated monitoring location, the noise monitoring at LFT_M7 have been suspended since 27 March 2024. An alternative monitoring location LFT_M6 was proposed to replace LFT_M7 and agreed with the ER and the IEC.

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}). $L_{eq(30mins)}$ used 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** summarizes the monitoring parameters, duration, and frequency of construction noise monitoring.

Table 3.2 Construction Noise Monitoring Parameter, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, TW_M2, TW_M3, LFT_M1, LFT_M3A, LFT_M5, LFT_M6 and LFT_M11	$L_{eq(30mins)}$ (as a logarithmic average of 6 consecutive $L_{eq(5mins)}$)	Once every week throughout the construction phase

3.3 Monitoring Equipment, Methodology and QA / QC Procedure

3.3.1 As referred to the technical memorandum issued under the Noise Control Ordinance (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 numbers of noise measuring equipment and associated instrumentation were prepared by the ET. All the equipment and associated instrumentation were clearly labelled.

3.3.4 Wind data were collected from the records of Hong Kong Observatory Shek Kong Weather Station, which is about 2 km south-west of Ha Che and about 900 m north of Lin Fa Tei.

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 receivers 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 the 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 ($L_{eq(30mins)}$) would be determined for daytime noise by calculating the logarithmic average of six $L_{eq(5mins)}$ 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 re-calibration or repair of the equipment.

- At the end of the monitoring period, the values of L_{eq}, L90 and L10 were recorded. In addition, noise sources were recorded on a standard record sheet.

3.3.6 **Table 3.3** summarizes the noise monitoring equipment used during the construction noise monitoring. Calibration certificates for the impact noise monitoring equipment are attached in **Appendix 3.1**.

Table 3.3 Construction Noise Monitoring Equipment

Equipment	Model	No. of Equipment	Serial No.
Sound Level Meter	Nti Audio XL2	2	A2A-13661-E0 A2A-09696-E0
Acoustic Calibrator	Rion NC-75	1	35124530

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 approved Updated EM&A Manual. **Table 3.4** presents the Action and Limit Levels for construction noise. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix 3.2** shall be carried out.

Table 3.4 Action and Limit Levels for Construction Noise Monitoring

Time Period	Action	Limit Level
07:00 – 19:00 on normal weekdays	When one or more documented complaints are received	75 dB(A)(1)
07:00 – 23:00 on holidays; and 19:00 – 23:00 on all other days		45 dB(A)(2)
23:00 – 07:00 of the next day		30 dB(A)(2)

Notes:
(1) Between 07:00 and 19:00, construction noise limit for school during normal term time is 70 dB(A) and 65 dB(A) during examination period.
(2) The ASR of identified noise sensitive receivers is “A”, which is a rural area that is not affected by the in Influencing Factors (Ifs). The limit levels are stipulated in the Technical Memorandum on Noise from Construction Work in Designated Areas.

3.6 Results and Observations

3.6.1 The construction noise monitoring was conducted on 7, 16, 23 and 28 August 2024. The monitoring schedule is presented in **Appendix 2.3**.

3.6.2 The construction noise monitoring results are summarized in **Table 3.5**. No Action or Limit levels exceedance was recorded in the reporting period. Details of the results and graphical presentation are shown in **Appendix 3.3**.

Table 3.5 Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level, dB(A) $L_{eq(30mins)}$		Limit Level
	Minimum	Maximum	
SSNV_M2	60.4	61.0	75 dB(A)
SSNV_M3	60.8	62.0	75 dB(A)
SSNV_M6(1)	64.7	66.5	75 dB(A)
HC_M3A(1)	68.0	70.7	75 dB(A)
HC_M4	56.5	58.1	75 dB(A)
HC_M6	57.8	58.7	75 dB(A)
LFT_M1	60.1	61.7	75 dB(A)
LFT_M3A(1)	56.4	57.1	75 dB(A)
LFT_M5	53.3	53.7	75 dB(A)
LFT_M6	56.7	58.6	75 dB(A)
LFT_M11	67.3	68.1	75 dB(A)

Note:
(1) For Free Field measurement, +3 dB(A) was added to the measured results.

3.6.3 During the construction noise monitoring period, the influencing factors which may affect the results are summarized in **Table 3.6**.

Table 3.6 Influencing Factors at Noise Monitoring Stations

Monitoring Stations	Influencing Factors
SSNV_M2	Nil
SSNV_M3	Nil
SSNV_M6	Nil
HC_M3A	Road Traffic Noise
HC_M4	Road Traffic Noise
HC_M6	Road Traffic Noise
LFT_M1	Nil
LFT_M3A	Nil
LFT_M5	Road Traffic Noise
LFT_M6	Nil
LFT_M11	Road Traffic Noise

4 Ecology

4.1 Freshwater Crab

4.1.1 With reference to the approved EIA Report (Register No.: AEIAR-229/2021), two freshwater crab species of conservation importance were recorded within the work sites during the ecological baseline survey. *Somanniathelphusa zanklon* was recorded at Lin Fa Tei and Ha Che, while *Cryptopotamon anacoluthon* was recorded in the upstream area at Ha Che. Both species are endemic to Hong Kong and considered to be "Endangered" and "Vulnerable" by the IUCN respectively (IUCN 2023). The construction activities of the project will disturb their natural habitats and potentially causing a direct loss of these two species due to their limited mobility.

Freshwater Crab Translocation Plan

4.1.2 Freshwater Crab Translocation Plan (FCTP) was prepared by an Ecologist with relevant experience in freshwater habitats and submitted to the EPD and the AFCD for their approval under Condition 2.8 of the EP. Any aquatic species of conservation importance found during the pre-construction surveys were translocated to suitable receptor sites outside of the proposed works area, and their condition and number was monitored to ensure their long-term survivorship after translocation. The EPD advised no further comment on the submitted FCTP on 9 February 2024. A formal reply letter was issued by the EPD on 4 July 2024 after the submission of hardcopy for their record.

Pre-construction Survey Results

Ha Che

4.1.3 The pre-construction survey was carried out at Ha Che on 5, 6 and 7 February 2024 prior to the commencement of construction works at Ha Che. A total of 11 freshwater crabs were collected, marked, and translocated from Ha Che. All these captured individuals were observed on the first (5 February 2024) and third (7 February 2024) nights of the three consecutive pre-construction surveys. No crabs were collected on 6 February 2024. Seven *C. anacoluthon* (four males and three females) were found particularly on the upper section of the works area within rocky substratum and leaf-litters, while four *S. zanklon* were noted on sections with soft silty-muddy substrate.

4.1.4 The captured endemic freshwater crabs were translocated to the identified receptor sites indicated in the approved Freshwater Crab Translocation Plan. *C. anacoluthon* were translocated in the section of shallow fast-flowing semi-natural watercourse with rocky substratum located south-east of Chuk Hang Village. Meanwhile *S. zanklon* were translocated to the section of shallow slow-flowing seminatural channel characterised soft soil substrate encompassed by a small patch of woodland and village houses. The receptor sites have comparable characteristics with the collection site.

4.1.5 Several aquatic invertebrates were also incidentally caught during the surveys. Among the observed aquatic invertebrates, larvae of species with conservation importance namely one *Macromia berlandi*, two *Macromia urania* and two *Zygonyx iris* were translocated to the proposed receptor sites. *M. urania* and *M. berlandi* were translocated to the receptor site for *S. zanklon* while *Z. iris* to the receptor site of *C. anacoluthon*.

Lin Fa Tei (CH.A0.00 ~ CH.A200.00)

4.1.6 The pre-construction survey was carried out at Lin Fa Tei in sections CH.A0.00 ~ CH.A200.00 on 11, 12 and 13 March 2024 prior to the commencement of construction works at Lin Fa Tei in sections CH.A0.00 ~ CH.A200.00. A freshwater crab was collected, marked, and translocated from Lin Fa Tei. The captured individuals were observed on the third (13 March 2024) night of the three consecutive pre-construction surveys. No crabs were collected on 11 and 12 March 2024. The captured *C. anacoluthon* was found by kick sampling within the stream bed roughly 5 meters downstream from the concrete water gate within section CH.A0.00 ~ CH.A200.00.

4.1.7 The captured endemic freshwater crab was translocated to the identified receptor site indicated in the approved Freshwater Crab Translocation Plan. The captured *C. anacoluthon* was translocated to a section of a shallow slow-flowing seminatural watercourse with silt and rocky substrate surrounded by agricultural lands at Lin Fa Tei which has comparable characteristics with the collection site.

4.1.8 A single individual of an adult Spotted Narrow-mouthed Frog was found on a slope in the eastern section of section CH.A0.00 ~ CH.A200.00. As the specimen is mobile and able to avoid the construction area once the construction work commences, it was not translocated to the receptor site.

Lin Fa Tei (CH.A200.00 ~ CH.A500.00 and CH.B0.00 ~ CHB.149.77)

4.1.9 The pre-construction survey was carried out at Lin Fa Tei in sections CH.A200.00 ~ CH.A500.00 and CH.B0.00 ~ CHB.149.77 on 17, 18 and 19 April 2024 prior to the commencement of construction works at Lin Fa Tei in sections CH.A200.00 ~ CH.A500.00 and CH.B0.00 ~ CHB.149.77. No freshwater crab was collected during the pre-construction survey.

4.1.10 Two individuals of adult Spotted Narrow-mouthed Frog were found during the surveys. As this specimen is mobile and able to avoid the construction area once the construction work commences, it was not translocated to the receptor site. The specimens were brought to nearby agricultural lands instead, which is the preferred habitat of the species.

Post-translocation Monitoring

4.1.11 According to Section 5.2.5 of the approved Updated EM&A Manual for the Project, monthly post-translocation monitoring shall be conducted for at least 12 months after pre-construction surveys to monitor their establishment.

4.1.12 During the monitoring, active visual search by hand netting and kick sampling for aquatic fauna species would be performed at the respective receptor sites. Potential micro-habitats and hiding spaces that is favoured by the crabs such as rocks, organic debris, leaf litter, and riparian vegetation etc., will also be overturned or raked.

4.1.13 Upon discovery of any marked individuals from the pre-construction survey, date and time of capture, size and health condition of the individual will also be recorded once again.

4.1.14 The practice of mark and recapture of the translocated population of *S. zanklon* and *C. anacoluthon* at the receptor site can then be used to estimate population size, as well as inform the health and survival status of the translocated population.

4.1.15 The upper and lower receptor sites of Ha Che and receptor site of Lin Fa Tei were visited on 26 August 2024 to monitor the population of freshwater crabs translocated from Ha Che CH.A11.13~CH.A300.00, and Lin Fa Tei CH.A0.00~CH.A200.00.

4.1.16 Site conditions of both receptor sites at Ha Che are similar to that during the pre-construction survey, i.e., no pollution, anthropogenic disturbance or change in vegetation was observed. However, vegetation at the receptor site of Lin Fa Tei are overgrown. Representative photos of the site conditions are presented in **Plate 4.1** and **Plate 4.2**.

Plate 4.1 Site condition of receptor sites at Ha Che and Lin Fa Tei during the reporting month

Receptor site for *Cryptopotamon anacoluthon* (Upper Receptor Site) at Ha Che

Receptor site for *Somanniathelphusa zanklon* (Lower Receptor Site) at Ha Che

Receptor site for *Cryptopotamon anacoluthon* and *Somanniathelphusa zanklon* at Lin Fa Tei

Plate 4.2 Site condition of receptor sites at Ha Che and Lin Fa Tei during the reporting month

Overgrown condition of the Lin Fa Tei

4.1.17 None of the translocated individuals from the pre-construction surveys was found in the upper and lower receptor sites of Ha Che or the receptor site of Lin Fa Tei. The inability to recapture the translocated individuals could be due to the structural complexity of the habitats of both sites. The presence of many rocks and riffles at the upper Ha Che receptor site and large and deep pools in the lower Ha Che and Lin Fa Tei receptor sites provides excellent refuge and protection for the crabs. This is especially true for the Lin Fa Tei receptor site where vegetation was overgrown.

4.1.18 However, one new individual of *S. zanklon* without markings was captured at the receptor site Lin Fa Tei below the water gate where less vegetation is found. This individual, however, was not the translocated individual as its details (i.e., carapace, sex and species) did not match with any of the translocated individuals in the record. This individual was released immediately after record. Their details are summarized in **Table 4.1**.

Table 4.1 Summary of Freshwater Crab Species Captured during the Post-Translocation Monitoring

Species	ID No./ Code	Sex	Carapace Size (mm)	Receptor Site	Time of Capture	Remarks
S. zanklon	New Individual	F	26.5	Lin Fa Tei	21:37	/

4.2 Habitat Compensation for the Affected Riverine Habitat

4.2.1 In order to ensure the reinstated habitat could compensate the loss of the important riverine habitat, Habitat Creation and Management Plan (HCMP) is required to be submitted for EPD and AFCD approval under Condition 2.9 of the EP.

4.2.2 The first draft of HCMP was submitted to EPD and AFCD on 22 December 2023 with the following objectives:

- detail the approach and design features for restoring/ reinstating the three green channels at Sung Shan New Village, Lin Fa Tei and Ha Che so as to facilitate and promote the colonisation of the freshwater crab and other wildlife after the reinstatement; and

- detail the monitoring programme to monitor the physical environment of the restored/reinstated channels (i.e. green channels) including water quality, water current, as well as the establishment of riparian vegetation and the biota assemblage that would recolonise the reinstated channel.

4.2.3 Following comments from the EPD and AFCD dated 17 January 2024, the revised HCMP was submitted to EPD and AFCD for further review. Further comment was received from EPD on 27 May 2024, the revised HCMP was submitted to EPD for approval on 13 June 2024. It was accepted by EPD on 9 Jul 2024.

5 Waste Management

5.1.1 Waste generated from the Project include 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 are shown in **Appendix 5.1**.

5.1.2 Sorting of construction and demolition (C&D) materials was carried out on site. Sufficient numbers of 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.

5.1.3 The Contractor is advised to minimize the wastes generated through recycling or reusing. All applicable mitigation measures stipulated in the approved Updated EM&A Manual and waste management plans will be fully implemented.

6 Land Contamination

6.1.1 With reference to results of land contamination assessment included in the approved EIA Report (Register No.: AEIAR-229/2021), all identified sites with potential contamination are located outside the work area of the Project and no potential contamination arising from the proposed drainage improvement works is anticipated. Therefore, no land contamination issue is anticipated for this Project.

6.1.2 Mitigation measures listed in **Appendix 1.3** should be adopted if any suspended contamination encountered during construction.

6.1.3 No suspected on-site contamination was observed or reported by the Contractor in the reporting period.

7 Landscape and Visual

7.1 Audit Requirements

7.1.1 According to the approved Updated EM&A Manual, site audits should be undertaken every week during the construction phase to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Mitigation measures recommended in the EIA Report as the audit requirements including, preservation of existing vegetation, transplanting of affected trees, compensatory tree planting, control of night-time lighting glare, erection of decorative screen hoarding and management of construction activities and facilities are summarized in **Appendix 1.3**.

7.2 Results and Observations

7.2.1 To monitor and audit the implementation of landscape and visual mitigation measures, four weekly landscape and visual site audits were carried out on 7, 14, 21 and 27 August 2024.

7.2.2 No deficiency in the mitigation measures on landscape and visual was observed during the reporting period.

8 Cultural Heritage

8.1 Archaeology

8.1.1 According to the assessment included in the approved EIA report (Register No.: AEIAR-229/2021) the proposed drainage works in the Lin Fa Tei area are located immediately adjacent to existing river course on mainly Pleistocene terraced alluvium and the western end of the alignment on Holocene alluvium between Lin Fa Tei Site of Archaeological Interest (SAI) and Shui Lau Tin SAI. The proposed works are partially located within Lin Fa Tei SAI. Previous investigations within SAI have shown both in situ and secondary deposit and with potential for wooden features near the stream bed. As per the recommendation from EIA report, Archaeological Survey shall be conducted prior to the construction works, the concerned area is marked in **Figure 8.1**.

8.1.2 A qualified archaeologist shall be engaged and apply for a licence under the Antiquities and Monuments Ordinance (Cap. 53) to conduct the Archaeological Survey prior to the construction phase. The scope and methodology of the Archaeological Survey shall be agreed with Antiquities and Monuments Office (AMO) prior to implementation. Tentatively and subject to agreement with AMO, a fieldscan, where possible, twenty auger tests and four 5 by 1m narrow trenches are proposed to further assess the archaeological potential of the area. If significant remains are uncovered, AMO should be notified and potential need for mitigation and/ or an appropriate way forward should be agreed by AMO and relevant parties.

8.1.3 For remaining drainage work areas (outside the area identified for Archaeological Survey) deemed to have limited (near Kam Sheung Road) to minimal (remainder of Works Areas) archaeological potential, AMO shall be informed immediately if antiquities or supposed antiquities are discovered during construction works for the proposed drainage improvement works for ascertaining required remedial works.

8.2 Built Heritage

8.2.1 According to the approved Updated EM&A manual, mitigation measures that should be implemented during the construction phase for graded historic buildings are presented in **Table 8.1**.

8.2.2 Condition surveys were carried out by qualified structural engineer for Lee Tat Bridge, Lan Fong Study Hall and St John's Chapel prior to construction works. The Pre-construction Condition Survey Report were submitted to the EPD on 22 December 2023 under Condition 2.10 of the EP. The Antiquities and Monuments Office (AMO) had no adverse comment on the report on 3 January 2024. A formal reply letter was issued by the EPD on 21 June 2024 for their acceptance on the report.

Table 8.1 Mitigation Measures for Impacted Graded Historic Buildings

Graded Historic Buildings	Mitigation Measures
Lee Tat Bridge, Shui Tsan Tin (Grade 3)	▪ A condition survey should be carried out in advance of works and after completion of works by qualified building surveyor or structural engineer. The Condition Survey Report should contain descriptions of the structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring and precautionary measures that are or were recommended with aid of photo records. The condition survey report must be submitted to the AMO for comment before construction activities commence and after the works have been completed. The contractor should implement the approved monitoring and precautionary measures. ▪ Vibration, settlement and tilting monitoring should be undertaken during the construction works to ensure that safe levels of vibration are not exceeded. An Alert, Alarm and Action (AAA) vibration limit set at 5 / 6 / 7.5 mm/s for Grade 3 historic buildings, settlement limit set at 6/ 8/ 10mm, and tilting limit set at 1/2000; 1/1500; 1/1000 should be adopted. Monitoring proposal, including checkpoint locations, installation details, response actions for each of the AAA levels and frequency of monitoring should be submitted for AMO's consideration. Installation of monitoring checkpoints shall be carried out in great care and adequate protection shall be provided so as to avoid unnecessary disturbance/ damage to the historic fabrics. Photo records of monitoring checkpoints shall be submitted upon installation for AMO's records. Monitoring records should be submitted to AMO on regular basis and alert AMO should the monitoring reach AAA levels.
Lan Fong Study Hall, Chuk Hang (Grade 3)	
St John’s Chapel, Cheung Po (Grade 2)	

9 Environmental Site Inspection and Audit

9.1 Implementation Status of Environmental Mitigation Measures

9.1.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 7, 14, 21 and 27 August 2024 at the site portions listed in **Table 9.1** below.

Table 9.1 Site Inspection Record

Date	Inspected Site Portion	Time
7 August 2024	Lin Fa Tei	14:30 – 15:00
14 August 2024	Ha Che	14:30 – 15:00
21 August 2024	Lin Fa Tei	14:30 – 15:00
27 August 2024	Sung Shan New Village, Ha Che and Lin Fa Tei	15:55 – 18:00

9.1.2 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 9.2**.

Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
7 August 2024	Observation(s) and Recommendation(s) Nil	Nil
14 August 2024	Observation(s) and Recommendation(s) Nil	Nil
21 August 2024	Observation(s) and Recommendation(s) Lin Fa Tei: 1. Geotextiles should be maintained in good condition and right position.	Geotextiles was maintained in good condition and the right position.
27 August 2024	Observation(s) and Recommendation(s) Nil	Nil

9.1.3 According to the EIA Study Report, Environmental Permit, contract documents and approved Updated EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix 1.3**.

10 Summary of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions

10.1 Summary of Exceedance

10.1.1 During the reporting month, no exceedances during impact water quality monitoring was recorded.

10.1.2 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.

10.2 Summary of Environmental Non-Compliance

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

10.3 Summary of Environmental Complaint

10.3.1 No environmental complaint was received in the reporting period.

10.3.2 The Cumulative Complaint Log is presented in **Appendix 10.1**.

10.4 Summary of Environmental Summon and Successful Prosecution

10.4.1 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 10.1**.

11 Future Key Issues

11.1 Works and Potential Environmental Issues in the next Reporting Period

11.1.1 The construction programme for the Project for the next reporting period is presented in **Appendix 11.1**.

11.1.2 Works to be undertaken in the next reporting period are summarized below:

Ha Che

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction
- Removal of Sheet piles, Drain Laying works, Reinstatement

Lin Fa Tei

- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

Sung Shan New Village

- Site Clearance
- Breaking Ground
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting
- Sheet pilling & Backfilling and Compaction

11.1.3 Potential environmental impacts arising from the above construction activities are mainly associated with construction noise impact, water quality impact, ecological impact, waste management, and landscape and visual.

11.2 Recommendation

11.2.1 The key environmental mitigation measures for the Project in the coming reporting period expected to be associated with the construction activities include:

Noise

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

Water Quality

- 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; and
- 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.

Waste Management

- Provision of sufficient waste disposal points and regular collection of waste;
- Regular cleaning and maintenance programme for drainage system; and
- Chemical containers shall be stored with drip tray underneath.

Ecology

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

Landscape and Visual

- Construction activities shall be carefully designed to minimize impact on existing retained trees; and
- Adequate tree protection measures shall be provided for the trees to be retained on site.

11.2.2 The tentative schedule of regular construction noise and water quality monitoring in the next reporting period is presented in **Appendix 11.1**. The regular impact noise and water quality monitoring will be conducted at the same monitoring locations in the next reporting period.

12 Conclusions

12.1 Conclusion

12.1.1 This 7th Monthly EM&A Report presents the EM&A works during the reporting period from 1 to 31 August 2024 in accordance with the approved Updated EM&A Manual.

12.1.2 No exceedance during impact water quality monitoring was recorded during reporting period.

12.1.3 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.

12.1.4 Environmental site inspections were conducted on 7, 14, 21 and 27 August 2024 by the ET in the reporting period.

12.1.5 No environmental complaint was received in the reporting period.

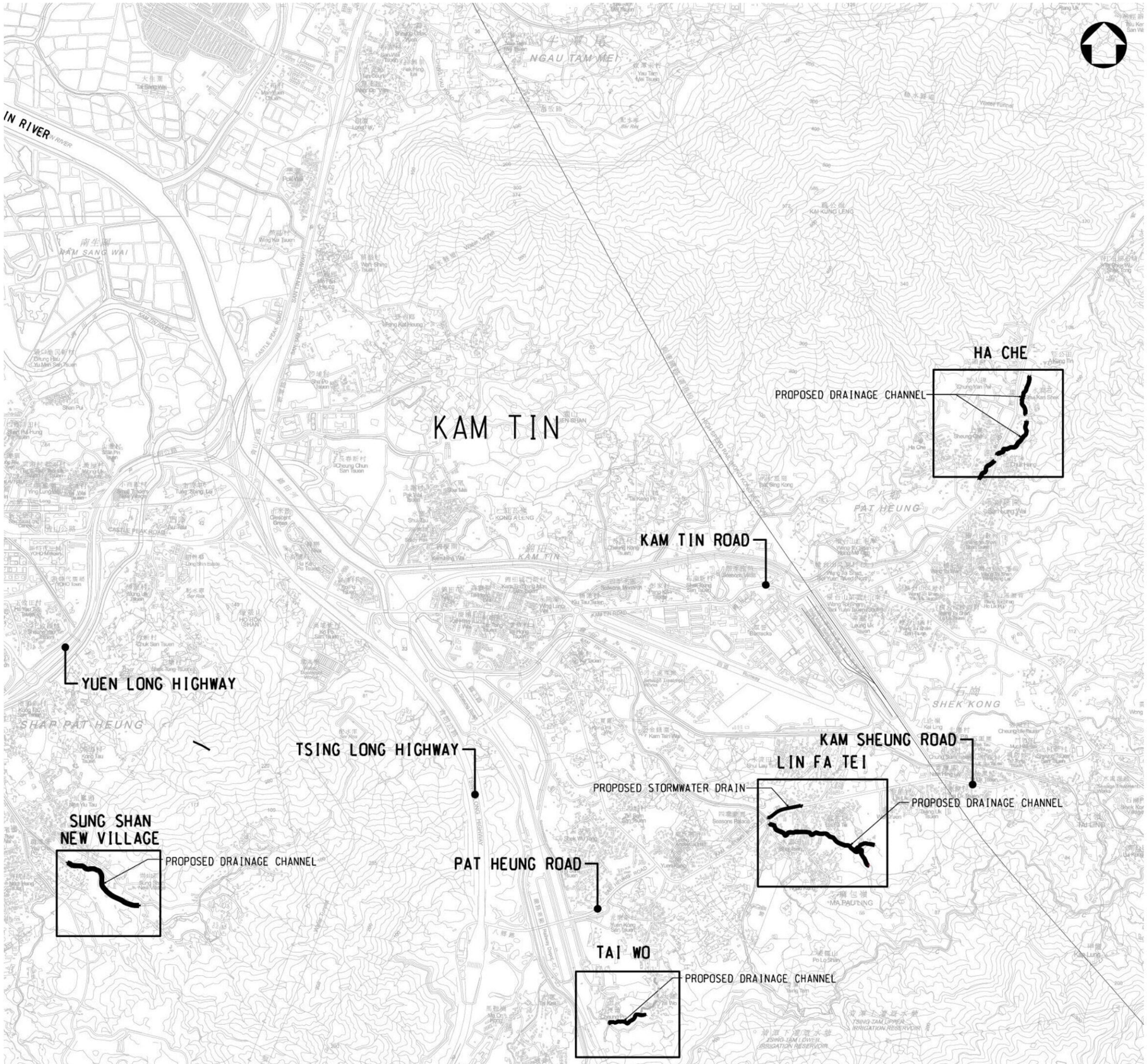
12.1.6 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

12.2 Comments/ Recommendations

12.2.1 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.

Figures

Figure 1.1 General Site Location Plan



Rev.	Date	Description	By	Chk'd	App'd
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-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT

Suitability: -

ATKINS
Member of the SNC-Lavalin Group

Client
渠務署
Drainage Services Department
工程管理部
Project Management Division

Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
SITE LOCATION PLAN

Scale	Designed	Drawn	Checked	Authorised
N.T.S.	SHC	AC	WCTT	KP
Original Size: A1	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022

Drawing Number: Figure 1.1

Revision: A

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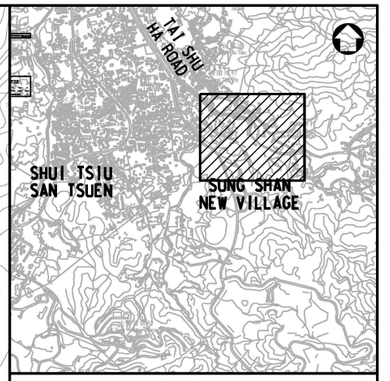
Filename: P:\CNHK\AGIC\Project\5124336 - CE 22_2013 (DS) Yuen Long-Stage 1\Contract DC/2022\Contract Doc\Volume 3\15-Drawings\General\5124336-TD-C2-GEN-0000_A.dgn

Figure 1.2 Location of Work Areas for the Project

821900 E
822100 E
822300 E
822500 E
831800 N
831600 N
831400 N
SSNV.A
TAI SHU HA ROAD
SUNG SHAN NEW VILLAGE
0 10 20 30 40 50 m
1 : 1 000 SCALE BAR



KEY PLAN
N.T.S.

LEGEND:
- WORKS BOUNDARY
- RECTANGULAR CHANNEL

Rev.	Date	Description	By	Chk'd	App'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

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Suitability:

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工程管理部
Project Management Division

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CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
SUNG SHAN NEW VILLAGE -
GENERAL LAYOUT PLAN

Scale	Designed	Drawn	Checked	Authorised
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Original Size: A1	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022

Drawing Number: Figure 1.2a
Revision:

DO NOT SCALE

Millimetres 0 10 100

825500 E
825600 E
825700 E
830800 N
830700 N

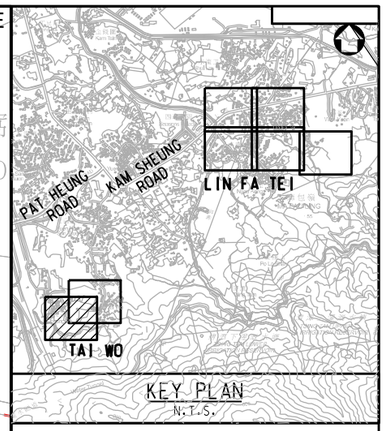
CHEUNG PO

大嵩
TAI WO

TAI WO

900CU

遊樂場
Playground
教堂
Church
啓業花園
Kai Yip Garden



LEGEND:
- WORKS BOUNDARY
- RECTANGULAR CHANNEL

Rev.	Date	Description	By	Chk'd	Appr'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

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Suitability: -

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CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
TAI WO -
GENERAL LAYOUT PLAN

Scale	Designed	Drawn	Checked	Authorised
1 : 500	SHC	AC	WCTT	KP
Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022

Drawing Number: **Figure 1.2 b**
Revision: A

0 5 10 15 20 25 m
1 : 500 SCALE BAR

Millimetres 100 0 10

826600 E 826700 E 826800 E 826900 E 827000 E

832200 N 832000 N 831800 N

KAM SHEUNG ROAD

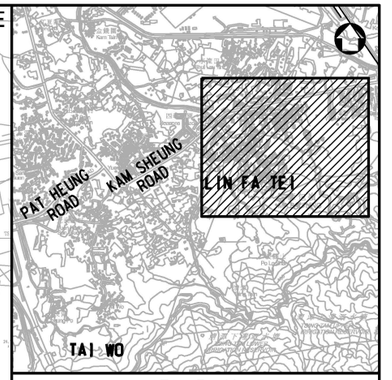
LIN FA TEI

SHUI TSAN TIN

NGAU KENG

DO NOT SCALE

0 12.5 25 37.5 50 62.5 m
1 : 1 250 SCALE BAR



KEY PLAN
N.T.S.

LEGEND:
- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- 450CU — COVERED U-CHANNEL WITH NON-HEAVY DUTY PRECAST CONCRETE COVER
- MANHOLE

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT
Suitability: -

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CONTRACT NO. DC/2022/02
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AT YUEN LONG -
STAGE 2

Drawing Title
LIN FA TEI -
GENERAL LAYOUT PLAN

Scale	Designed	Drawn	Checked	Authorised
1 : 1250	SHC	AC	WCTT	KP
Original Size: A1	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022

Drawing Number: Figure 1.2 c
Revision:

DO NOT SCALE

Millimetres 100 0 10

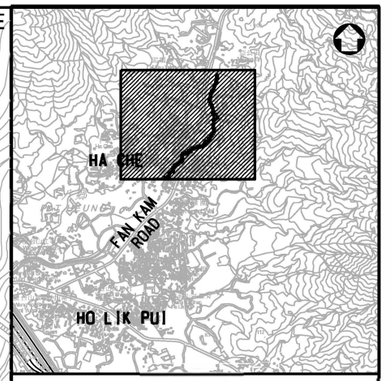
827700 E

834800 N

834600 N

834400 N

HA CHE



KEY PLAN
N.T.S.

LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

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DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title:

HA CHE -
GENERAL LAYOUT PLAN

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
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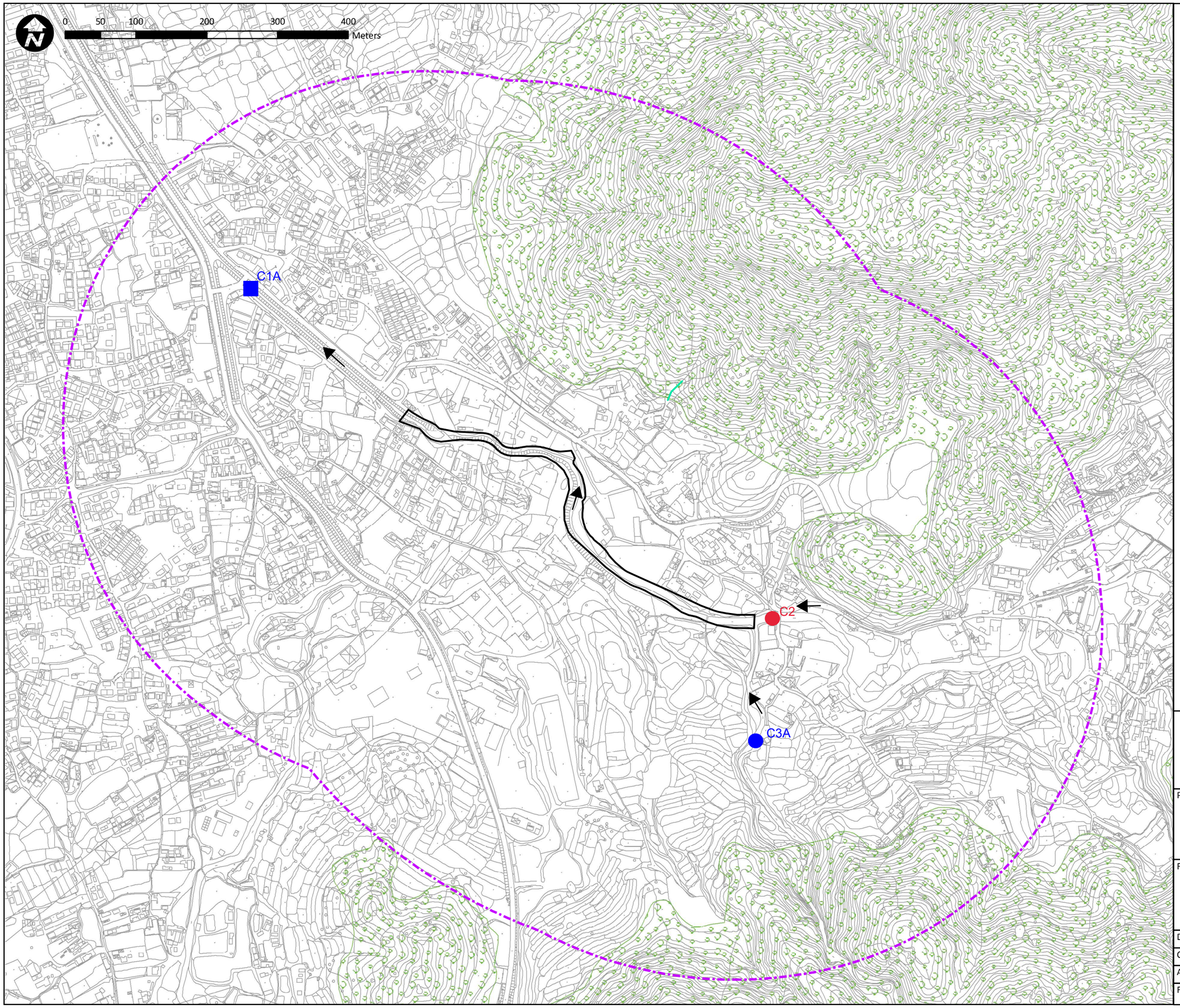
Drawing Number: Figure 1.2 d

Revision:

Figure 2.1 Impact Water Quality Monitoring Locations



Legend:

- Work Limit Boundary
- 500 m study area
- Control Station
- Alternative Control Station
- Alternative Impact Station
- Flow direction

Project Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Figure Title:
Water Quality Monitoring Locations at Sung Shan New Village

Drawn by:	Scale: 1:5,000 on A3	
Checked By:	Date:	
Approved by:		
Figure Number: Figure 2.1a		Revision: R1

DO NOT SCALE

825500 E

825600 E

825700 E

830800 N

830700 N

CHEUNG PO

大窩
TAI WO

TAI WO

900CU

C5

C4

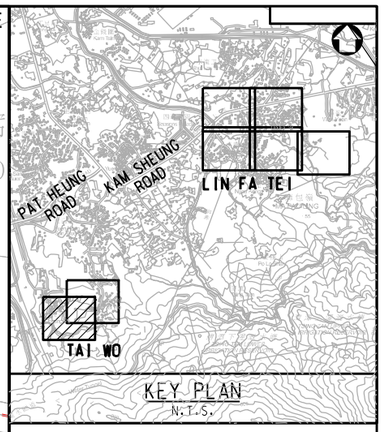
遊樂場
Playground

教堂
Church

啓業花園
Kai Yip Garden

Millimetres 0 10 100

0 5 10 15 20 25 m
1 : 500 SCALE BAR



KEY PLAN
N.T.S.

LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Control Station

Impact Station

Flow Direction

Rev.	Date	Description	By	Chk'd	Appr'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT

Suitability: -

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Contract Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title:
Water Quality Monitoring Locations at Tai Wo

Scale	Designed	Drawn	Checked	Authorised
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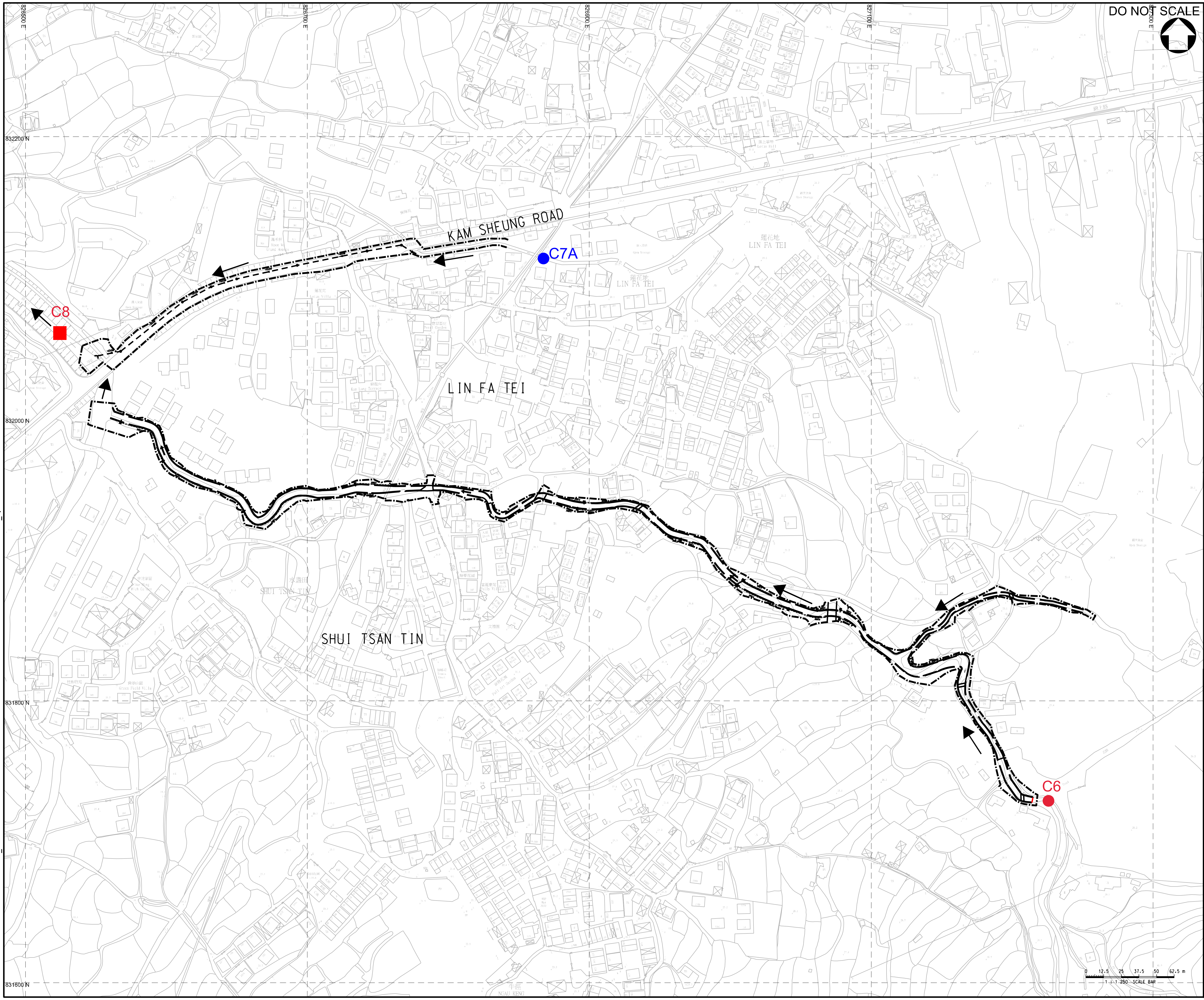
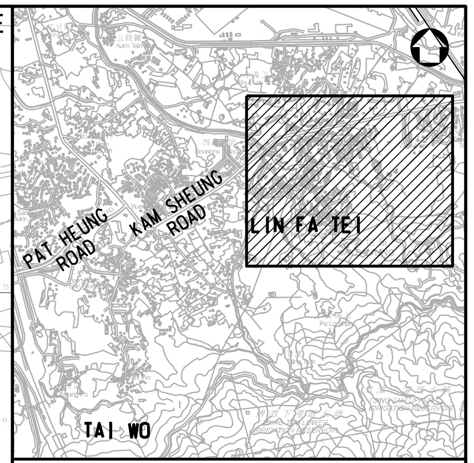
Drawing Number: Figure 2.1b

Revision:





KEY PLAN
N.T.S.

LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- 450 CU COVERED U-CHANNEL WITH NON-HEAVY DUTY PRECAST CONCRETE COVER
- MANHOLE
- Control Station
- Alternative Control Station
- Impact Station
- Flow Direction

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

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CONTRACT NO. DC/2022/02
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AT YUEN LONG -
STAGE 2

Drawing Title
Water Quality Monitoring Locations at Lin Fa Tei

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022

Drawing Number: Figure 2.1c

Revision

0 50 100 200 300 400
Meters

C9

C10

LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Control Station

Impact Station

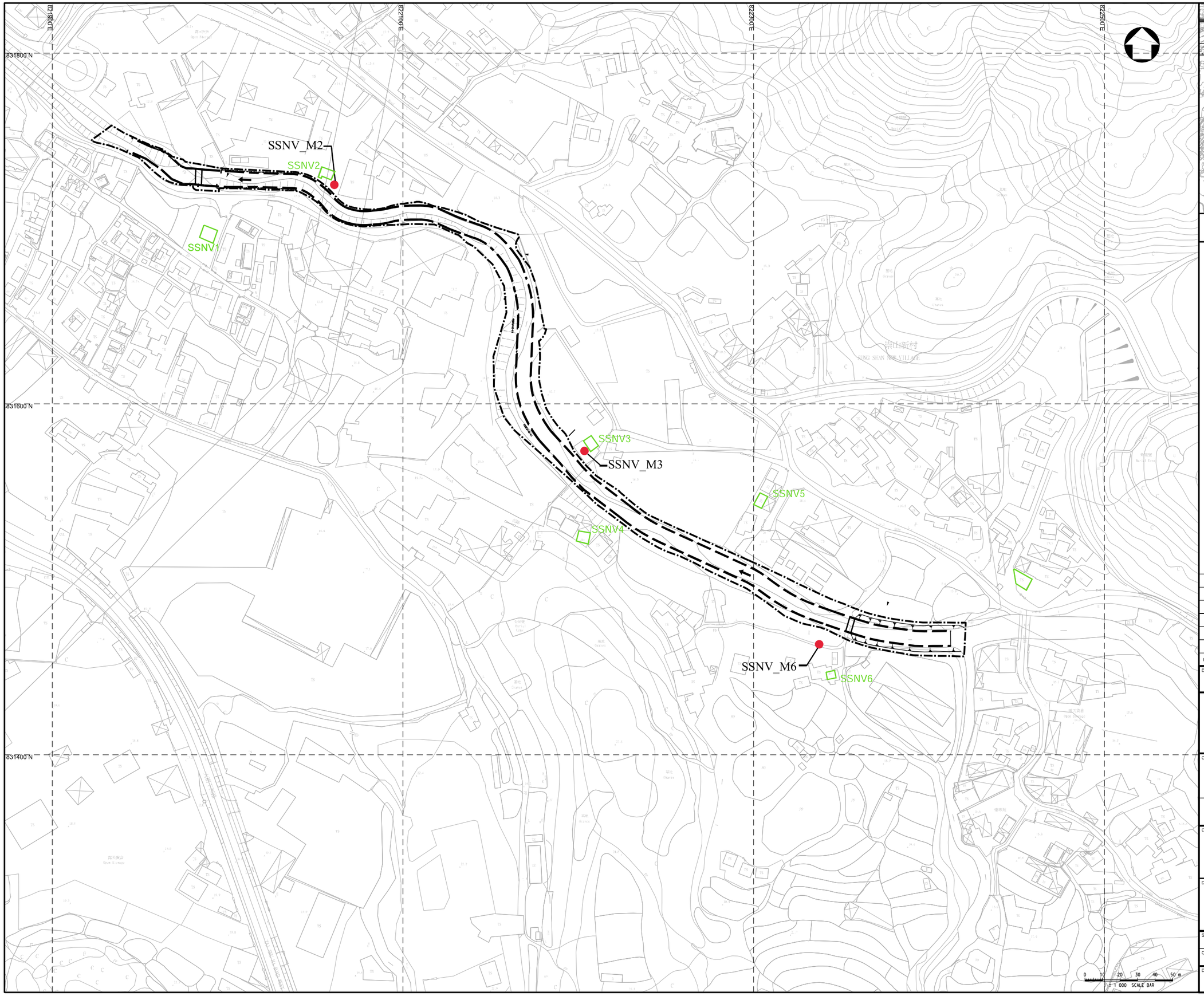
Flow Direction

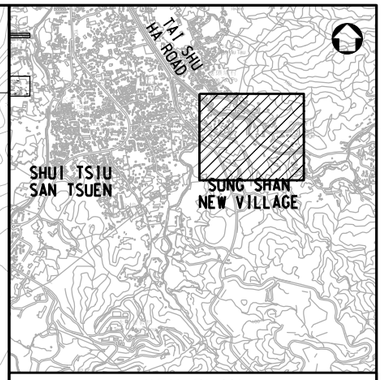
Project Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Figure Title:
Water Quality Monitoring Locations at Ha Che

Drawn by:	Scale: 1:6,500 on A3	
Checked By:	Date:	
Approved by:		
Figure Number: Figure 2.1d		Revision: R1

Figure 3.1 Impact Noise Monitoring Locations





KEY PLAN
N.T.S.

LEGEND:
- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- NOISE SENSITIVE RECEIVER
- NOISE MONITORING STATION

Rev.	Date	Description	By	Chk'd	App'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT
Suitability: -

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Project Management Division

Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
Noise Monitoring Locations at
Sung Shan New Village

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
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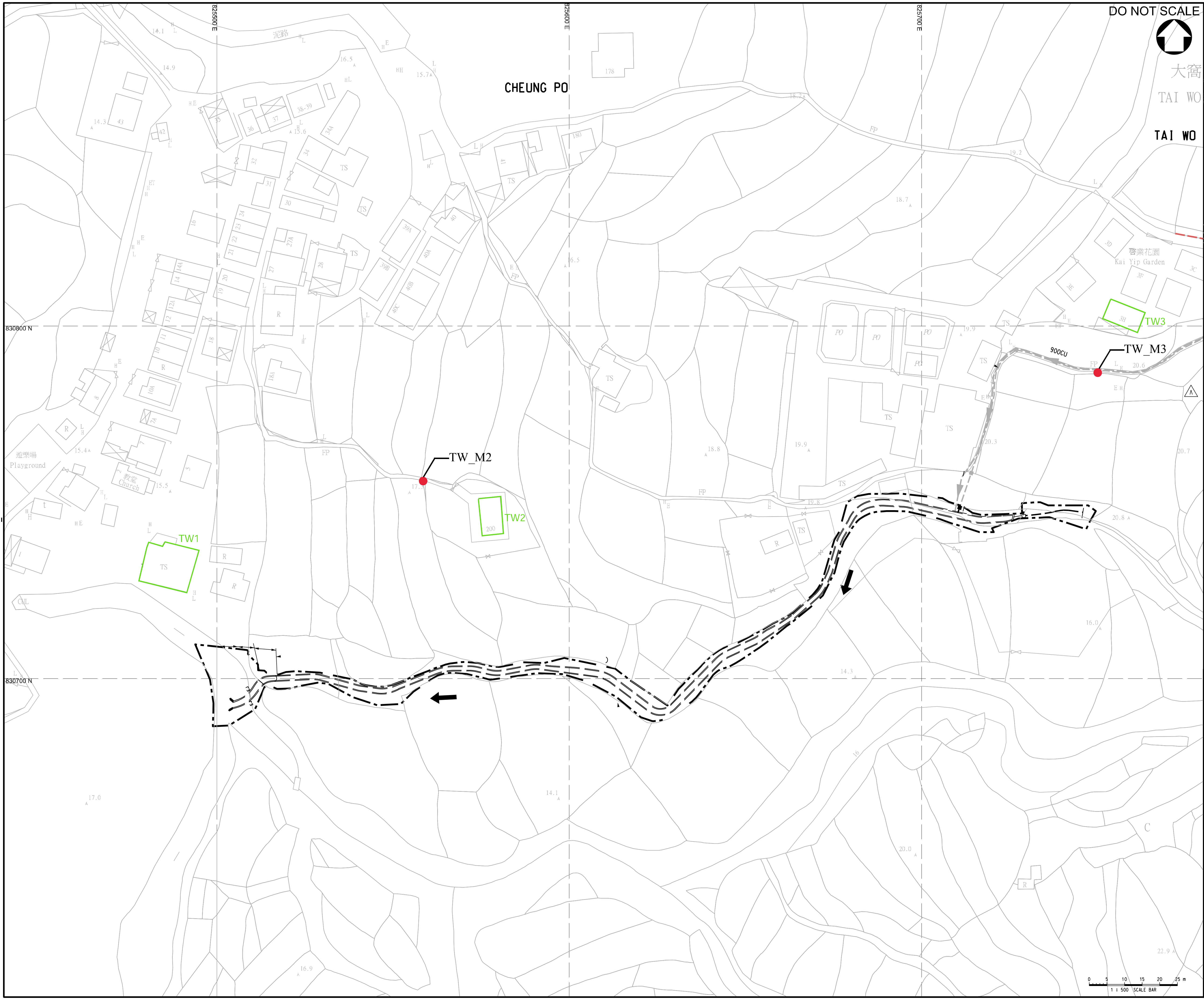
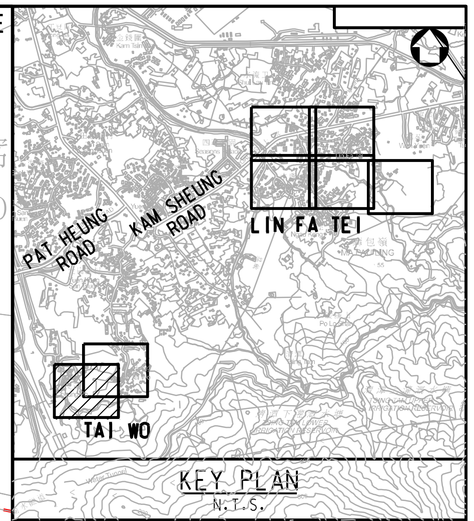
Drawing Number: Figure 3.1a
Revision:





LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- NOISE SENSITIVE RECEIVER
- NOISE MONITORING STATION

Rev.	Date	Description	By	Chk'd	App'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT

Suitability: -

ATKINS

Member of the SNC-Lavalin Group

Client: 渠務署 Drainage Services Department

工程管理部 Project Management Division

Contract Title: CONTRACT NO. DC/2022/02 DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2

Drawing Title: Noise Monitoring Locations at Tai Wo

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
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Drawing Number: Figure 3.1b

Revision: A

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832200 N

832000 N

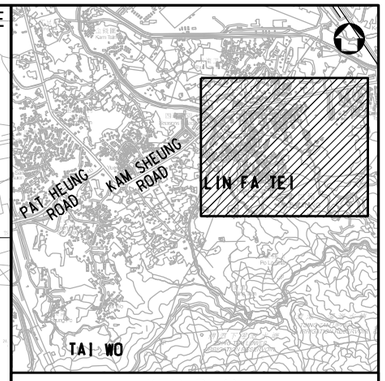
831800 N

831600 N

Millimetres 100 0 10

LFT_M11
KAM SHEUNG ROAD
LFT10
LFT11
LFT12
LFT14
LFT13
LFT_M13
LIN FA TEI
LFT9
LFT8
LFT_M7
LFT7
LFT_M5
LFT5
LFT4
LFT_M3A
LFT6
LFT_M6
LFT3
LFT_M3
SHUI TSAN TIN
LFT_M1
LFT1
LFT2

0 12.5 25 37.5 50 62.5 m
1 : 1250 SCALE BAR



KEY PLAN
N.T.S.

LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- NOISE SENSITIVE RECEIVER
- NOISE MONITORING STATION
- ALTERNATIVE NOISE MONITORING STATION

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT
Suitability: -

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Client
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Drainage Services Department
工程管理部
Project Management Division

Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
Noise Monitoring Locations at
Lin Fa Tei

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
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Drawing Number: Figure 3.1c
Revision:

DO NOT SCALE

Millimetres 100 0 10

822700 E

834800 N

834600 N

834400 N

HA CHE

HC_M6

HC8

HC7

HC6

HC_M4

HC_M3

HC5

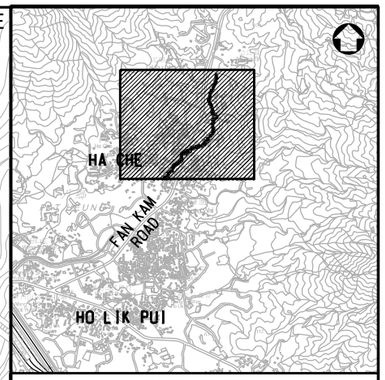
HC4

HC_M3A

HC3

HC2

HC1



KEY PLAN
N.T.S.

LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- NOISE SENSITIVE RECEIVER
- NOISE MONITORING STATION
- ALTERNATIVE NOISE MONITORING STATION

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT

Suitability: -

ATKINS
Member of the SNC-Lavalin Group

Client: 渠務署 Drainage Services Department

工程管理部
Project Management Division

Contract Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title:
Noise Monitoring Locations at
Ha Che

Scale	Designed	Drawn	Checked	Authorised
1 : 1250	SHC	AC	WCTT	KP
Original Size: A1	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022

Drawing Number: Figure 3.1d

Revision:

Figure 8.1 Area for Archaeological Survey

DO NOT SCALE

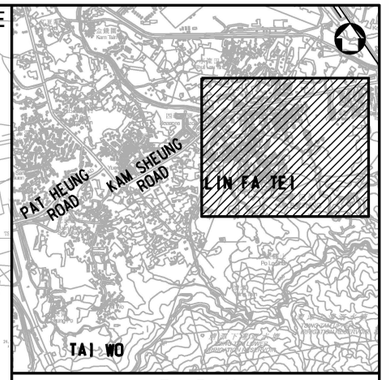
826600 E
826700 E
826800 E
826900 E
827000 E

832200 N
832000 N
831800 N

KAM SHEUNG ROAD
LIN FA TEI
SHUI TSAN TIN
NGAU KENG

0 12.5 25 37.5 50 62.5 m
1 : 1 250 SCALE BAR

Millimetres 0 10 100



KEY PLAN
N.T.S.

LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- 450CU — COVERED U-CHANNEL WITH NON-HEAVY DUTY PRECAST CONCRETE COVER
- MANHOLE
- AREA IDENTIFIED FOR ARCHAEOLOGICAL SURVEY

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP

Drawing Status: CONTRACT
Suitability: -

ATKINS
Member of the SNC-Lavalin Group

Client
渠務署
Drainage Services Department

工程管理部
Project Management Division

Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
AREA IDENTIFIED FOR ARCHAEOLOGICAL SURVEY

Scale	Designed	Drawn	Checked	Authorised
1 : 1250	SHC	AC	WCTT	KP
Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022

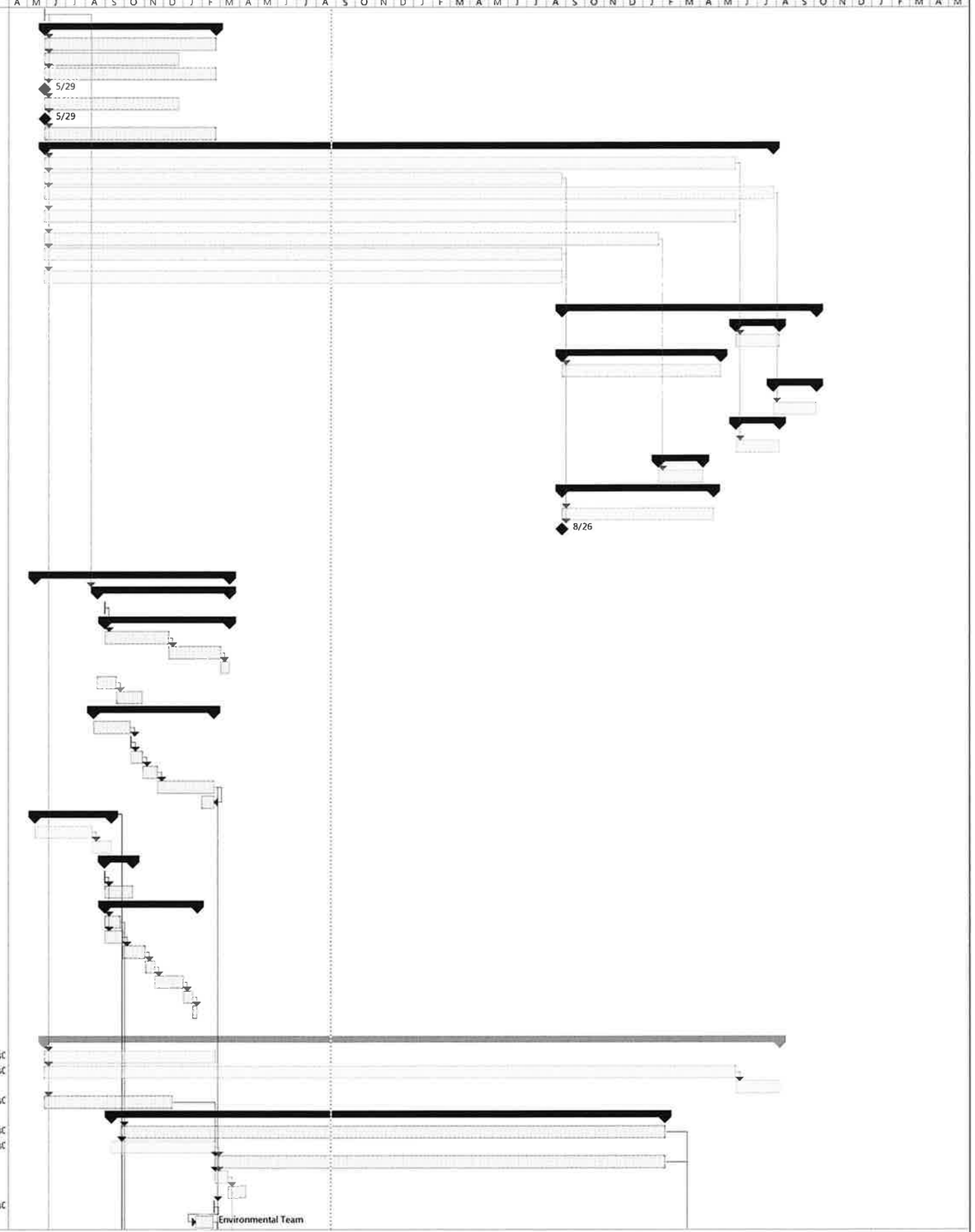
Drawing Number: Figure 8.1
Revision:

Appendices

Appendix 1.1 Construction Programme

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
1	***Starting date***	**1 day**	**Mon 23/5/29**	**Mon 23/5/29**	**Mon 23/5/29**	**Mon 23/5/29**	**Mon 23/5/29**	**Mon 23/5/29**	**0 days**		
2	*Access date*	270 days	Mon 23/5/29	Fri 24/2/23	Mon 23/5/29	Fri 24/2/23	Fri 26/1/9	Mon 26/10/5	955 days		
3	Portion A	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 26/1/9	Mon 26/10/5	955 days		1
4	Portion B	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 26/3/10	Mon 26/10/5	1015 days		1
5	Portion C1 & C2	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 26/1/9	Mon 26/10/5	955 days		1
6	Portion C3	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/10/5	Mon 26/10/5	1225 days		1
7	Portion D	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 26/3/10	Mon 26/10/5	1015 days		1
8	Portion E1	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/10/5	Mon 26/10/5	1225 days		1
9	Portion E2	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 26/1/9	Mon 26/10/5	955 days		1
10	*Completion Date*	1155 days	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	0 days		
11	Section I - Drainage Improvement Works at Sung Shan New Village	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days		1
12	Section II - Drainage Improvement Works at Tai Wo	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days		1
13	Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall construction and drainage improvement works along Kam Sheung Road)	1155 days	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	0 days		1
14	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days		1
15	Section V - Drainage Improvement Works at Shan Ha Tsuen	973 days	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	0 days		1
16	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days		1
17	Section VII - Pipe Laying Works by Trenchless Method and Pipe Rehabilitation Works across Fan Kam Road and Upstream Channel and Downstream Box Culvert Construction Works (Chainage 626.224m - 678.859m) at Ha Che	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days		1
39	**Planned Completion Day of whole of the works**	**405 days**	**Tue 25/8/26**	**Mon 26/10/5**	**Tue 25/8/26**	**Mon 26/10/5**	**Wed 25/8/27**	**Mon 26/10/5**	**0 days**		
40	**Section I - Drainage Improvement Works at Sung Shan New Village**	**70 days**	**Fri 26/5/29**	**Thu 26/8/6**	**Fri 26/5/29**	**Thu 26/8/6**	**Fri 26/5/29**	**Thu 26/8/6**	**0 days**		
41	EOT - Inclement weather	70 days	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	0 days		11
42	**Section II - Drainage Improvement Works at Tai Wo**	**251 days**	**Wed 25/8/27**	**Mon 26/5/4**	**Wed 25/8/27**	**Mon 26/5/4**	**Wed 25/8/27**	**Mon 26/5/4**	**0 days**		
43	EOT - Blockade of access by others	251 days	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	0 days		12
44	**Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall construction and drainage improvement works along Kam Sheung Road)**	**70 days**	**Tue 26/7/28**	**Mon 26/10/5**	**Tue 26/7/28**	**Mon 26/10/5**	**Tue 26/7/28**	**Mon 26/10/5**	**0 days**		
45	EOT - inclement weather	70 days	Tue 26/7/28	Mon 26/10/5	Tue 26/7/28	Mon 26/10/5	Tue 26/7/28	Mon 26/10/5	0 days		13
46	**Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)**	**70 days**	**Fri 26/5/29**	**Thu 26/8/6**	**Fri 26/5/29**	**Thu 26/8/6**	**Fri 26/5/29**	**Thu 26/8/6**	**0 days**		
47	EOT - Inclement weather	70 days	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	0 days		14
48	**Section V - Drainage Improvement Works at Shan Ha Tsuen**	**70 days**	**Tue 26/1/27**	**Mon 26/4/6**	**Tue 26/1/27**	**Mon 26/4/6**	**Tue 26/1/27**	**Mon 26/4/6**	**0 days**		
49	EOT - Inclement weather	70 days	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	0 days		15
50	**Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei**	**240 days**	**Wed 25/8/27**	**Thu 26/4/23**	**Wed 25/8/27**	**Thu 26/4/23**	**Wed 25/8/27**	**Thu 26/4/23**	**0 days**		
51	EOT - Difficulty/infeasibility for construction of 1650mm dia. pipe at Kam Sheur	240 days	Wed 25/8/27	Thu 26/4/23	Wed 25/8/27	Thu 26/4/23	Wed 25/8/27	Thu 26/4/23	0 days		16
52	**Section VII - Pipe Laying Works by Trenchless Method and Pipe Rehabilitation Works across Fan Kam Road and Upstream Channel and Downstream Box Culvert Construction Works (Chainage 626.224m - 678.859m) at Ha Che**	0 days	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Mon 26/10/5	Mon 26/10/5	405 days		17
53											
54	**Project establishment**	**307 days**	**Mon 23/5/15**	**Sat 24/3/16**	**Mon 23/5/15**	**Sat 24/3/16**	**Mon 23/5/15**	**Mon 26/10/5**	**0 days**		
55	**Project Manager's Accommodation**	**209 days**	**Mon 23/8/21**	**Sat 24/3/16**	**Mon 23/8/21**	**Sat 24/3/16**	**Sun 26/3/22**	**Mon 26/10/5**	**933 days**		**1FS-1 day**
56	PMI001 - Possession of Works Area at 22 Fan Kam road [A]	1 day	Fri 23/9/1	Fri 23/9/1	Fri 23/9/1	Fri 23/9/1	Fri 23/9/1	Sun 26/3/22	933 days	0	
57	**Rennovation and Certification of ex. PM accommodation**	**197 days**	**Sat 23/9/2**	**Sat 24/3/16**	**Sat 23/9/2**	**Sat 24/3/16**	**Mon 26/3/23**	**Mon 26/10/5**	**933 days**	0	
58	Inspection and review of ex. PM accommodation [A]	100 days	Sat 23/9/2	Sun 23/12/10	Sat 23/9/2	Sun 23/12/10	Mon 26/3/23	Tue 26/6/30	933 days		56
59	Arranging time slot with RSS for power and server down [A]	83 days	Mon 23/12/11	Sat 24/3/2	Mon 23/12/11	Sat 24/3/2	Wed 26/7/1	Mon 26/9/21	933 days	0	58
60	Issuance of check certificates [A]	14 days	Sun 24/3/3	Sat 24/3/16	Sun 24/3/3	Sat 24/3/16	Tue 26/9/22	Mon 26/10/5	933 days	0	59
61	C11 Tendering procedure for EDMS & DWSS [A]	30 days	Mon 23/8/21	Tue 23/9/19	Mon 23/8/21	Tue 23/9/19	Tue 26/7/28	Wed 26/8/26	1072 days	0	
62	Installation and commissioning of EDMS & DWSS [A]	40 days	Wed 23/9/20	Sun 23/10/29	Wed 23/9/20	Sun 23/10/29	Thu 26/8/27	Mon 26/10/5	1072 days	0	61
63	**Environmental Team (ET) procurement**	**190 days**	**Tue 23/8/15**	**Tue 24/2/20**	**Tue 23/8/15**	**Tue 24/2/20**	**Wed 23/8/30**	**Mon 26/10/5**	**15 days**		
64	C9 Tendering procedure [A]	58 days	Tue 23/8/15	Wed 23/10/11	Tue 23/8/15	Wed 23/10/11	Wed 23/8/30	Thu 23/10/26	15 days	0	
65	Commencement for ET (Aurecon) [A]	1 day	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	Fri 23/10/27	Fri 23/10/27	15 days	0	64
66	Proposal and Acceptance of ET Members [A]	18 days	Fri 23/10/13	Mon 23/10/30	Fri 23/10/13	Mon 23/10/30	Sat 23/10/28	Tue 23/11/14	15 days	0	65
67	Updating and Acceptance of EM&A Manual [A]	23 days	Tue 23/10/31	Wed 23/11/22	Tue 23/10/31	Wed 23/11/22	Wed 23/11/15	Thu 23/12/7	15 days	0	66
68	Notice of Commencement of Construction to EPD [A]	90 days	Thu 23/11/23	Tue 24/2/20	Thu 23/11/23	Tue 24/2/20	Fri 23/12/8	Wed 24/3/6	15 days	0	67
69	Complete necessary submissions to EPD [A]	20 days	Thu 24/2/1	Tue 24/2/20	Thu 24/2/1	Tue 24/2/20	Wed 26/9/16	Mon 26/10/5	958 days	0	68FF
74	**Setup Public Liaison Team**	**120 days**	**Mon 23/5/15**	**Mon 23/9/11**	**Mon 23/5/15**	**Mon 23/9/11**	**Mon 23/5/15**	**Mon 23/9/11**	**0 days**		
75	Recruitment of Public Liaison Officer [A]	90 days	Mon 23/5/15	Sat 23/8/12	Mon 23/5/15	Sat 23/8/12	Mon 23/5/15	Sat 23/8/12	0 days	0	
76	Appointment and Acceptance of Public Liaison Officer [A]	30 days	Sun 23/8/13	Mon 23/9/11	Sun 23/8/13	Mon 23/9/11	Sun 23/8/13	Mon 23/9/11	0 days	0	75
84	**Works Area establishment**	**44 days**	**Fri 23/9/1**	**Sat 23/10/14**	**Fri 23/9/1**	**Sat 23/10/14**	**Sat 23/9/16**	**Mon 26/10/5**	**15 days**		
85	PMI001 - Possession of Works Area at 22 Fan Kam road [A]	1 day	Fri 23/9/1	Fri 23/9/1	Fri 23/9/1	Fri 23/9/1	Sat 23/9/16	Sat 23/9/16	15 days	0	
86	Establish concrete haul road and slab [A]	43 days	Sat 23/9/2	Sat 23/10/14	Sat 23/9/2	Sat 23/10/14	Mon 26/8/24	Mon 26/10/5	1087 days	0	85
87	**Contractor's Accommodation (office and welfare facilities)**	**145 days**	**Sat 23/9/2**	**Wed 24/1/24**	**Sat 23/9/2**	**Wed 24/1/24**	**Sun 23/9/17**	**Mon 26/10/5**	**15 days**		
88	Establish temporary site office (containers) [A]	24 days	Sat 23/9/2	Mon 23/9/25	Sat 23/9/2	Mon 23/9/25	Sun 23/9/17	Tue 23/10/10	15 days	0	85
96	C9 Tendering procedure for Contractor's Site Office [A]	28 days	Sat 23/9/2	Fri 23/9/29	Sat 23/9/2	Fri 23/9/29	Thu 26/5/14	Wed 26/6/10	985 days	0	85
97	Proposal and Acceptance of Temp. Works Design and Method Statement [A]	35 days	Sat 23/9/30	Fri 23/11/3	Sat 23/9/30	Fri 23/11/3	Thu 26/6/11	Wed 26/7/15	985 days	0	96
98	Construction of Footing [A]	15 days	Sat 23/11/4	Sat 23/11/18	Sat 23/11/4	Sat 23/11/18	Thu 26/7/16	Thu 26/7/30	985 days	0	97
99	Construction of Structure [A]	45 days	Sun 23/11/19	Tue 24/1/2	Sun 23/11/19	Tue 24/1/2	Fri 26/7/31	Sun 26/9/13	985 days	0	98
100	Interior furnishment and Furnitures [A]	15 days	Wed 24/1/3	Wed 24/1/17	Wed 24/1/3	Wed 24/1/17	Mon 26/9/14	Mon 26/9/28	985 days	0	99
101	Move-in [A]	7 days	Thu 24/1/18	Wed 24/1/24	Thu 24/1/18	Wed 24/1/24	Tue 26/9/29	Mon 26/10/5	985 days	0	100
102											
103	**Section I**	**1165 days**	**Tue 23/5/30**	**Thu 26/8/6**	**Tue 23/5/30**	**Thu 26/8/6**	**Tue 23/5/30**	**Thu 26/8/6**	**0 days**		
2	access date of Portion A	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	0 days	0	\\WingTatNasC
3	Period of section I (Sung Shan New Village)	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days	0	\\WingTatNasC
4	Planned Completion Day	70 days	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	0 days	0	3
5	Early access (partial) [A]	200 days	Tue 23/5/30	Fri 23/12/15	Tue 23/5/30	Fri 23/12/15	Tue 23/8/8	Fri 24/2/23	70 days	0	\\WingTatNasC
6	**Site Establishment**	**878 days**	**Tue 23/9/12**	**Thu 26/2/5**	**Tue 23/9/12**	**Thu 26/2/5**	**Tue 23/9/12**	**Thu 26/8/6**	**0 days**		
7	Prepare and Accept Temp. Works Design and Method Statement	864 days	Tue 23/9/26	Thu 26/2/5	Tue 23/9/26	Thu 26/2/5	Tue 23/10/31	Thu 26/3/12	35 days	0	\\WingTatNasC
8	Public Liaison and Negotiation with Village Rep.	164 days	Tue 23/9/12	Thu 24/2/22	Tue 23/9/12	Thu 24/2/22	Tue 23/9/12	Thu 24/2/22	0 days	0	\\WingTatNasC
9	Initial Survey	714 days	Fri 24/2/23	Thu 26/2/5	Fri 24/2/23	Thu 26/2/5	Fri 24/3/29	Thu 26/3/12	35 days	0	8,5FS-1 day
10	Initial Safety & Environmental measures [A]	21 days	Fri 24/2/23	Thu 24/3/14	Fri 24/2/23	Thu 24/3/14	Fri 24/2/23	Thu 24/3/14	0 days	0	8,5FS-1 day
13	Setup of instrumentation and monitoring [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Fri 26/7/10	Thu 26/8/6	847 days	0	10
15	EIAO Commencement of Construction [A]	1 day	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Tue 26/6/9	Tue 26/6/9	839 days	0	\\WingTatNasC
16	Environmental Baseline Monitoring [A]	28 days	Tue 24/1/23	Mon 24/2/19	Tue 24/1/23	Mon 24/2/19	Mon 26/5/11	Sun 26/6/7	839 days	0	15FS-30 days



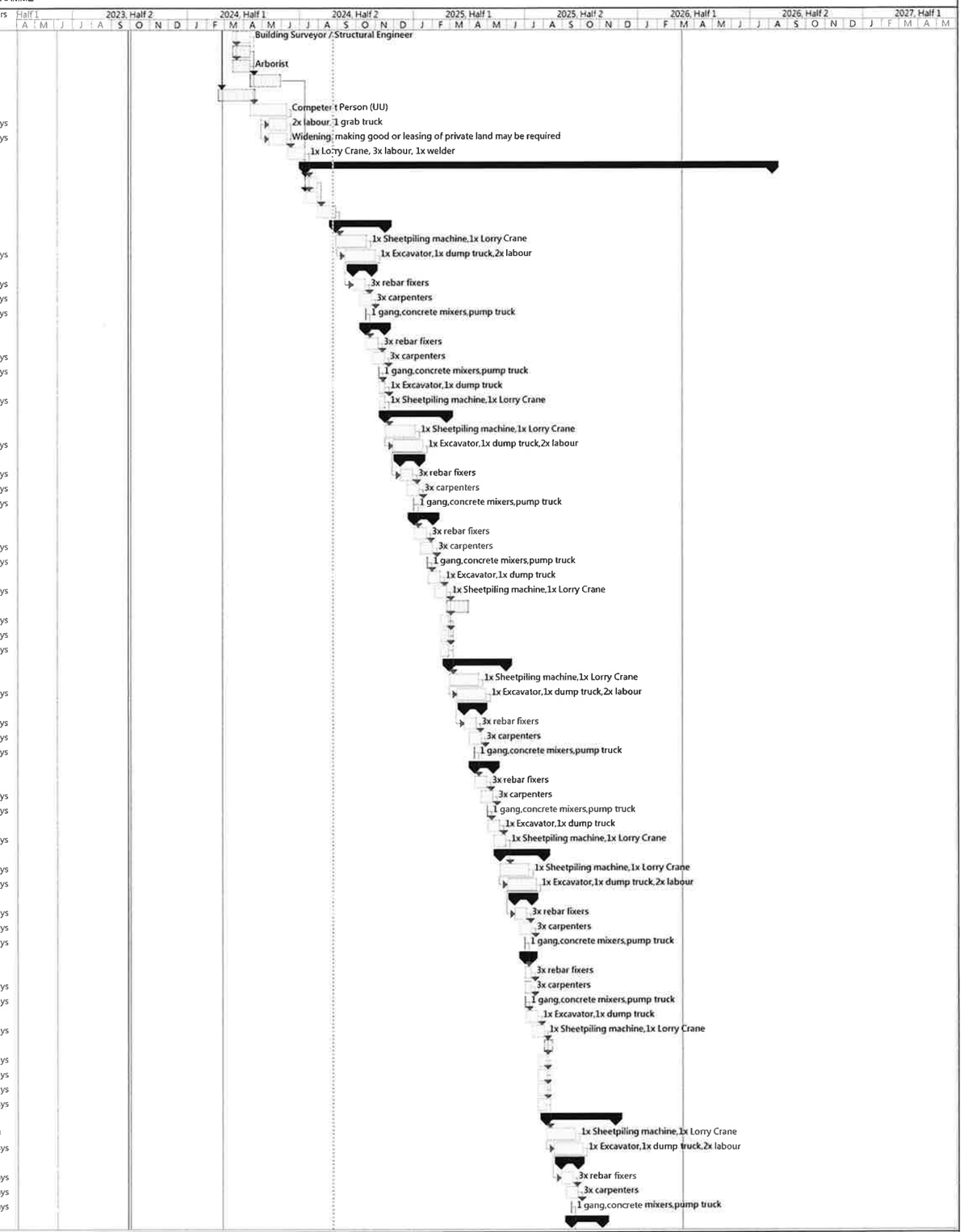
Revision : 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
17	**Condition Survey [A]**	**28 days**	**Fri 24/3/15**	**Thu 24/4/11**	**Fri 24/3/15**	**Thu 24/4/11**	**Fri 24/3/15**	**Thu 24/4/11**	**0 days**	**0**	**10**
18	Vegetation Survey [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Wed 24/4/24	Tue 24/5/21	40 days	0	10
19	Tree Survey [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Wed 24/4/24	Tue 24/5/21	40 days	0	10
20	[PMIxxx] TPRP for Additional Trees (impact to be ascertained)	50 days	Fri 24/4/12	Fri 24/5/31	Fri 24/4/12	Fri 24/5/31	Wed 24/5/22	Wed 24/7/10	40 days	0	19,18
21	[PMI-xxx] Aquilaria Sinensis seedling (impact to be ascertained)	60 days	Tue 24/2/20	Fri 24/4/19	Tue 24/2/20	Fri 24/4/19	Mon 26/6/8	Thu 26/8/6	839 days	0	16
22	Site Clearance [A]	60 days	Fri 24/4/12	Mon 24/6/10	Fri 24/4/12	Mon 24/6/10	Fri 24/4/12	Mon 24/6/10	0 days	0	17
23	UU detection	30 days	Sun 24/5/12	Mon 24/6/10	Sun 24/5/12	Mon 24/6/10	Sun 24/5/12	Mon 24/6/10	0 days	0	22FS-30 days
24	Establish access(es) to channels [A]	30 days	Sun 24/5/12	Mon 24/6/10	Sun 24/5/12	Mon 24/6/10	Sun 24/5/12	Mon 24/6/10	0 days	0	22FS-30 days
25	Guarding / Barrier / Hoarding [A]	30 days	Tue 24/6/11	Wed 24/7/10	Tue 24/6/11	Wed 24/7/10	Tue 24/6/11	Wed 24/7/10	0 days	0	24,23
26	**Drainage Channels Works**	**757 days**	**Thu 24/7/11**	**Thu 26/8/6**	**Thu 24/7/11**	**Thu 26/8/6**	**Thu 24/7/11**	**Thu 26/8/6**	**0 days**		
27	Excavate & Backfill ex. Unregistered feature [A]	20 days	Thu 24/7/11	Tue 24/7/30	Thu 24/7/11	Tue 24/7/30	Thu 24/7/11	Tue 24/7/30	0 days	0	25,20
28	Relocate/Divert ex. Utilities [A]	20 days	Thu 24/7/11	Tue 24/7/30	Thu 24/7/11	Tue 24/7/30	Thu 24/7/11	Tue 24/7/30	0 days	0	25,20
29	Demolish & relocate metal frame YLL796/B/9 [A]	30 days	Wed 24/7/31	Thu 24/8/29	Wed 24/7/31	Thu 24/8/29	Wed 24/7/31	Thu 24/8/29	0 days	0	27,28
30	**SSNV04 CH.A300.00~CH.A400.00**	**80 days**	**Fri 24/8/30**	**Sun 24/11/17**	**Fri 24/8/30**	**Sun 24/11/17**	**Fri 24/8/30**	**Sun 24/11/17**	**0 days**		
31	Sheetpiling & Temp. Drainage Diversion	50 days	Fri 24/8/30	Fri 24/10/18	Fri 24/8/30	Fri 24/10/18	Fri 24/8/30	Fri 24/10/18	0 days	2	29
32	Excavation and Lateral Support	50 days	Fri 24/9/13	Fri 24/11/1	Fri 24/9/13	Fri 24/11/1	Fri 24/9/13	Fri 24/11/1	0 days	2	31FS-36 days
33	**Ground and Edge Beams**	**30 days**	**Fri 24/9/27**	**Sat 24/10/26**	**Fri 24/9/27**	**Sat 24/10/26**	**Fri 24/9/27**	**Sat 24/10/26**	**0 days**		
34	Rebar Fixing	20 days	Fri 24/9/27	Wed 24/10/16	Fri 24/9/27	Wed 24/10/16	Fri 24/9/27	Wed 24/10/16	0 days	1	32FS-36 days
35	Formwork Erection and Cast-in items	20 days	Mon 24/10/7	Sat 24/10/26	Mon 24/10/7	Sat 24/10/26	Mon 24/10/7	Sat 24/10/26	0 days	1	34FS-10 days
36	Concreting	1 day	Thu 24/10/17	Thu 24/10/17	Thu 24/10/17	Thu 24/10/17	Thu 24/10/17	Thu 24/10/17	0 days	0	35FS-10 days
37	**Walls**	**30 days**	**Fri 24/10/18**	**Sat 24/11/16**	**Fri 24/10/18**	**Sat 24/11/16**	**Fri 24/10/18**	**Sat 24/11/16**	**0 days**		
38	Rebar Fixing	20 days	Fri 24/10/18	Wed 24/11/6	Fri 24/10/18	Wed 24/11/6	Fri 24/10/18	Wed 24/11/6	0 days	1	36
39	Formwork Erection and Cast-in items	20 days	Mon 24/10/28	Sat 24/11/16	Mon 24/10/28	Sat 24/11/16	Mon 24/10/28	Sat 24/11/16	0 days	1	38FS-10 days
40	Concreting	1 day	Thu 24/11/7	Thu 24/11/7	Thu 24/11/7	Thu 24/11/7	Thu 24/11/7	Thu 24/11/7	0 days	0	39FS-10 days
41	Backfilling and Compaction	10 days	Fri 24/11/8	Sun 24/11/17	Fri 24/11/8	Sun 24/11/17	Fri 24/11/8	Sun 24/11/17	0 days	0	40
42	Removal of Sheetpiles	10 days	Fri 24/11/8	Sun 24/11/17	Fri 24/11/8	Sun 24/11/17	Fri 24/11/8	Sun 24/11/17	0 days	0	41FS-10 days
43	**SSNV03 CH.A400.00~CH.A500.00**	**98 days**	**Mon 24/11/18**	**Sun 25/2/23**	**##########**	**Sun 25/2/23**	**##########**	**Sun 25/2/23**	**0 days**		
44	Sheetpiling & Temp. Drainage Diversion	48 days	Mon 24/11/18	Sat 25/1/4	Mon 24/11/18	Sat 25/1/4	Mon 24/11/18	Sat 25/1/4	0 days	2	42
45	Excavation and Lateral Support	48 days	Sat 24/11/30	Thu 25/1/16	Sat 24/11/30	Thu 25/1/16	Sat 24/11/30	Thu 25/1/16	0 days	2	44FS-36 days
46	**Ground and Edge Beams**	**30 days**	**Thu 24/12/12**	**Fri 25/1/10**	**Thu 24/12/12**	**Fri 25/1/10**	**Thu 24/12/12**	**Fri 25/1/10**	**0 days**		
47	Rebar Fixing	20 days	Thu 24/12/12	Tue 24/12/31	Thu 24/12/12	Tue 24/12/31	Thu 24/12/12	Tue 24/12/31	0 days	1	45FS-36 days
48	Formwork Erection and Cast-in items	20 days	Sun 24/12/22	Fri 25/1/10	Sun 24/12/22	Fri 25/1/10	Sun 24/12/22	Fri 25/1/10	0 days	1	47FS-10 days
49	Concreting	2 days	Wed 25/1/1	Thu 25/1/2	Wed 25/1/1	Thu 25/1/2	Wed 25/1/1	Thu 25/1/2	0 days	0	48FS-10 days
50	**Walls**	**30 days**	**Fri 25/1/3**	**Sat 25/2/1**	**Fri 25/1/3**	**Sat 25/2/1**	**Fri 25/1/3**	**Sat 25/2/1**	**0 days**		
51	Rebar Fixing	20 days	Fri 25/1/3	Wed 25/1/22	Fri 25/1/3	Wed 25/1/22	Fri 25/1/3	Wed 25/1/22	0 days	1	49
52	Formwork Erection and Cast-in items	20 days	Mon 25/1/13	Sat 25/2/1	Mon 25/1/13	Sat 25/2/1	Mon 25/1/13	Sat 25/2/1	0 days	1	51FS-10 days
53	Concreting	2 days	Thu 25/1/23	Fri 25/1/24	Thu 25/1/23	Fri 25/1/24	Thu 25/1/23	Fri 25/1/24	0 days	0	52FS-10 days
54	Backfilling and Compaction	20 days	Sat 25/1/25	Thu 25/2/13	Sat 25/1/25	Thu 25/2/13	Sat 25/1/25	Thu 25/2/13	0 days	0	53
55	Removal of Sheetpiles	20 days	Tue 25/2/4	Sun 25/2/23	Tue 25/2/4	Sun 25/2/23	Tue 25/2/4	Sun 25/2/23	0 days	0	54FS-10 days
56	1:2 slope works	35 days	Mon 25/2/24	Sun 25/3/30	Mon 25/2/24	Sun 25/3/30	Fri 26/7/3	Thu 26/8/6	494 days	5	55
57	Demolish & relocate wall, hoarding YLL796/B/13,13B	14 days	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	0 days	0	55FS-10 days
58	Demolish & relocate OSC YLL796/B/14A,14B	14 days	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	0 days	0	55FS-10 days
59	Demolish & relocate fence & wall YLL796/B/14	14 days	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	Fri 25/2/14	Thu 25/2/27	0 days	0	55FS-10 days
60	**SSNV05 CH.A200.00~CH.A300.00**	**92 days**	**Fri 25/2/28**	**Fri 25/5/30**	**Fri 25/2/28**	**Fri 25/5/30**	**Fri 25/2/28**	**Fri 25/5/30**	**0 days**		
61	Sheetpiling & Temp. Drainage Diversion	48 days	Fri 25/2/28	Wed 25/4/16	Fri 25/2/28	Wed 25/4/16	Fri 25/2/28	Wed 25/4/16	0 days	2	57,58,59
62	Excavation and Lateral Support	48 days	Wed 25/3/12	Mon 25/4/28	Wed 25/3/12	Mon 25/4/28	Wed 25/3/12	Mon 25/4/28	0 days	2	61FS-36 days
63	**Ground and Edge Beams**	**28 days**	**Mon 25/3/24**	**Sun 25/4/20**	**Mon 25/3/24**	**Sun 25/4/20**	**Mon 25/3/24**	**Sun 25/4/20**	**0 days**		
64	Rebar Fixing	20 days	Mon 25/3/24	Sat 25/4/12	Mon 25/3/24	Sat 25/4/12	Mon 25/3/24	Sat 25/4/12	0 days	1	62FS-36 days
65	Formwork Erection and Cast-in items	20 days	Tue 25/4/1	Sun 25/4/20	Tue 25/4/1	Sun 25/4/20	Tue 25/4/1	Sun 25/4/20	0 days	1	64FS-12 days
66	Concreting	1 day	Wed 25/4/9	Wed 25/4/9	Wed 25/4/9	Wed 25/4/9	Wed 25/4/9	Wed 25/4/9	0 days	0	65FS-12 days
67	**Walls**	**30 days**	**Thu 25/4/10**	**Fri 25/5/9**	**Thu 25/4/10**	**Fri 25/5/9**	**Thu 25/4/10**	**Fri 25/5/9**	**0 days**		
68	Rebar Fixing	20 days	Thu 25/4/10	Tue 25/4/29	Thu 25/4/10	Tue 25/4/29	Thu 25/4/10	Tue 25/4/29	0 days	1	66
69	Formwork Erection and Cast-in items	20 days	Sun 25/4/20	Fri 25/5/9	Sun 25/4/20	Fri 25/5/9	Sun 25/4/20	Fri 25/5/9	0 days	1	68FS-10 days
70	Concreting	1 day	Wed 25/4/30	Wed 25/4/30	Wed 25/4/30	Wed 25/4/30	Wed 25/4/30	Wed 25/4/30	0 days	0	69FS-10 days
71	Backfilling and Compaction	20 days	Thu 25/5/1	Tue 25/5/20	Thu 25/5/1	Tue 25/5/20	Thu 25/5/1	Tue 25/5/20	0 days	0	70
72	Removal of Sheetpiles	20 days	Sun 25/5/11	Fri 25/5/30	Sun 25/5/11	Fri 25/5/30	Sun 25/5/11	Fri 25/5/30	0 days	0	71FS-10 days
73	**SSNV06 CH.A100.00~CH.A200.00**	**72 days**	**Wed 25/5/21**	**Thu 25/7/31**	**Wed 25/5/21**	**Thu 25/7/31**	**Wed 25/5/21**	**Thu 25/7/31**	**0 days**		
74	Sheetpiling & Temp. Drainage Diversion	48 days	Wed 25/5/21	Mon 25/7/7	Wed 25/5/21	Mon 25/7/7	Wed 25/5/21	Mon 25/7/7	0 days	2	72FS-10 days
75	Excavation and Lateral Support	48 days	Mon 25/6/2	Sat 25/7/19	Mon 25/6/2	Sat 25/7/19	Mon 25/6/2	Sat 25/7/19	0 days	2	74FS-36 days
76	**Ground and Edge Beams**	**28 days**	**Sat 25/6/14**	**Fri 25/7/11**	**Sat 25/6/14**	**Fri 25/7/11**	**Sat 25/6/14**	**Fri 25/7/11**	**0 days**		
77	Rebar Fixing	20 days	Sat 25/6/14	Thu 25/7/3	Sat 25/6/14	Thu 25/7/3	Sat 25/6/14	Thu 25/7/3	0 days	1	75FS-36 days
78	Formwork Erection and Cast-in items	20 days	Sun 25/6/22	Fri 25/7/11	Sun 25/6/22	Fri 25/7/11	Sun 25/6/22	Fri 25/7/11	0 days	1	77FS-12 days
79	Concreting	1 day	Mon 25/6/30	Mon 25/6/30	Mon 25/6/30	Mon 25/6/30	Mon 25/6/30	Mon 25/6/30	0 days	0	78FS-12 days
80	**Walls**	**10 days**	**Tue 25/7/1**	**Thu 25/7/10**	**Tue 25/7/1**	**Thu 25/7/10**	**Tue 25/7/1**	**Thu 25/7/10**	**0 days**		
81	Rebar Fixing	10 days	Tue 25/7/1	Thu 25/7/10	Tue 25/7/1	Thu 25/7/10	Tue 25/7/1	Thu 25/7/10	0 days	1	79
82	Formwork Erection and Cast-in items	10 days	Tue 25/7/1	Thu 25/7/10	Tue 25/7/1	Thu 25/7/10	Tue 25/7/1	Thu 25/7/10	0 days	1	81FS-10 days
83	Concreting	1 day	Tue 25/7/1	Tue 25/7/1	Tue 25/7/1	Tue 25/7/1	Tue 25/7/1	Tue 25/7/1	0 days	0	82FS-10 days
84	Backfilling and Compaction	20 days	Wed 25/7/2	Mon 25/7/21	Wed 25/7/2	Mon 25/7/21	Wed 25/7/2	Mon 25/7/21	0 days	0	83
85	Removal of Sheetpiles	20 days	Sat 25/7/12	Thu 25/7/31	Sat 25/7/12	Thu 25/7/31	Sat 25/7/12	Thu 25/7/31	0 days	0	84FS-10 days
86	Animal Escape Ramp	14 days	Fri 25/8/1	Thu 25/8/14	Fri 25/8/1	Thu 25/8/14	Fri 26/7/24	Thu 26/8/6	357 days	0	85
87	Relocate/Divert ex. Utilities	14 days	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	0 days	0	85FS-10 days
88	Demolish & relocate wall and porch YLL796/B/5,5A	14 days	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	0 days	0	85FS-10 days
89	Demolish & relocate booth, metal frame YLL796/B/16	14 days	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	0 days	0	85FS-10 days
90	Demolish & relocate wall YLL796/B/17	14 days	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	Tue 25/7/22	Mon 25/8/4	0 days	0	85FS-10 days
91	**SSNV07 CH.A0.00~CH.A100.00**	**112 days**	**Tue 25/8/5**	**Mon 25/11/24**	**Tue 25/8/5**	**Mon 25/11/24**	**Tue 25/8/5**	**##########**	**0 days**		
92	Sheetpiling & Temp. Drainage Diversion	48 days	Tue 25/8/5	Sun 25/9/21	Tue 25/8/5	Sun 25/9/21	Tue 25/8/5	Sun 25/9/21	0 days	2	87,88,89,90
93	Excavation and Lateral Support	48 days	Sun 25/8/17	Fri 25/10/3	Sun 25/8/17	Fri 25/10/3	Sun 25/8/17	Fri 25/10/3	0 days	2	92FS-36 days
94	**Ground and Edge Beams**	**28 days**	**Fri 25/8/29**	**Thu 25/9/25**	**Fri 25/8/29**	**Thu 25/9/25**	**Fri 25/8/29**	**Thu 25/9/25**	**0 days**		
95	Rebar Fixing	20 days	Fri 25/8/29	Wed 25/9/17	Fri 25/8/29	Wed 25/9/17	Fri 25/8/29	Wed 25/9/17	0 days	1	93FS-36 days
96	Formwork Erection and Cast-in items	20 days	Sat 25/9/6	Thu 25/9/25	Sat 25/9/6	Thu 25/9/25	Sat 25/9/6	Thu 25/9/25	0 days	1	95FS-12 days
97	Concreting	1 day	Sun 25/9/14	Sun 25/9/14	Sun 25/9/14	Sun 25/9/14	Sun 25/9/14	Sun 25/9/14	0 days	0	96FS-12 days
98	Walls	50 days	Mon 25/9/15	Mon 25/11/3	Mon 25/9/15	Mon 25/11/3	Mon 25/9/15	Mon 25/11/3	0 days		



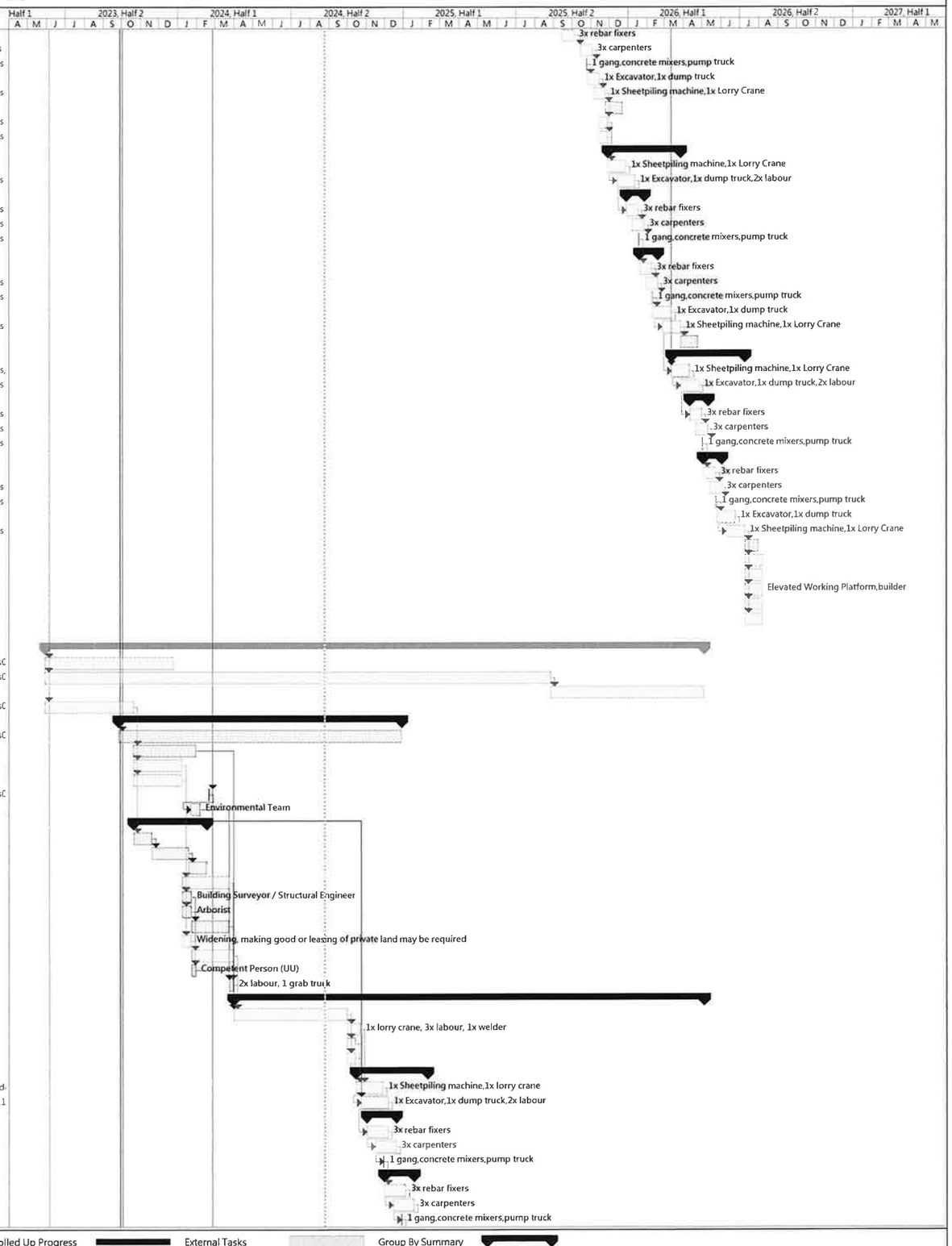
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
99	**Rebar Fixing**	**20 days**	**Mon 25/9/15**	**Sat 25/10/4**	**Mon 25/9/15**	**Sat 25/10/4**	**Mon 25/9/15**	**Sat 25/10/4**	**0 days**	**1**	97
100	Formwork Erection and Cast-in items	20 days	Wed 25/10/15	Mon 25/11/3	Wed 25/10/15	Mon 25/11/3	Wed 25/10/15	Mon 25/11/3	0 days	1	99FS+10 days
101	Concreting	1 day	Sat 25/10/25	Sat 25/10/25	Sat 25/10/25	Sat 25/10/25	Sat 25/10/25	Sat 25/10/25	0 days	0	100FS-10 days
102	Backfilling and Compaction	20 days	Sun 25/10/26	Fri 25/11/14	Sun 25/10/26	Fri 25/11/14	Sun 25/10/26	Fri 25/11/14	0 days	0	101
103	Removal of Sheetpiles	20 days	Wed 25/11/5	Mon 25/11/24	Wed 25/11/5	Mon 25/11/24	Wed 25/11/5	Mon 25/11/24	0 days	0	102FS-10 days
104	Pedestrian Crossing no. 2	28 days	Tue 25/11/25	Mon 25/12/22	Tue 25/11/25	Mon 25/12/22	Fri 26/7/10	Thu 26/8/6	227 days	0	103
105	Demolish & relocate metal frame YLL796/B/6	14 days	Sat 25/11/15	Fri 25/11/28	Sat 25/11/15	Fri 25/11/28	Sat 25/11/15	Fri 25/11/28	0 days	0	103FS-10 days
106	Demolish & relocate metal frame YLL796/B/7-8	14 days	Sat 25/11/15	Fri 25/11/28	Sat 25/11/15	Fri 25/11/28	Sat 25/11/15	Fri 25/11/28	0 days	0	103FS-10 days
107	**SSNV01 CH.A559.5~CH.A608.13**	**119 days**	**Sat 25/11/29**	**Fri 26/3/27**	**Sat 25/11/29**	**Fri 26/3/27**	**Sat 25/11/29**	**Fri 26/3/27**	**0 days**		
108	Sheetpiling & Temp. Drainage Diversion	30 days	Sat 25/11/29	Sun 25/12/28	Sat 25/11/29	Sun 25/12/28	Sat 25/11/29	Sun 25/12/28	0 days	0	105,106
109	Excavation and Lateral Support	30 days	Sun 25/12/14	Mon 26/1/12	Sun 25/12/14	Mon 26/1/12	Sun 25/12/14	Mon 26/1/12	0 days	0	108FS-15 days
110	**Ground and Edge Beams**	**30 days**	**Mon 25/12/29**	**Tue 26/1/27**	**##########**	**Tue 26/1/27**	**##########**	**Tue 26/1/27**	**0 days**		
111	Rebar Fixing	20 days	Mon 25/12/29	Sat 26/1/17	Mon 25/12/29	Sat 26/1/17	Mon 25/12/29	Sat 26/1/17	0 days	0	109FS-15 days
112	Formwork Erection and Cast-in items	20 days	Thu 26/1/8	Tue 26/1/27	Thu 26/1/8	Tue 26/1/27	Thu 26/1/8	Tue 26/1/27	0 days	0	111FS-10 days
113	Concreting	2 days	Sun 26/1/18	Mon 26/1/19	Sun 26/1/18	Mon 26/1/19	Sun 26/1/18	Mon 26/1/19	0 days	0	112FS-10 days
114	**Walls**	**30 days**	**Tue 26/1/20**	**Wed 26/2/18**	**Tue 26/1/20**	**Wed 26/2/18**	**Tue 26/1/20**	**Wed 26/2/18**	**0 days**		
115	Rebar Fixing	20 days	Tue 26/1/20	Sun 26/2/8	Tue 26/1/20	Sun 26/2/8	Tue 26/1/20	Sun 26/2/8	0 days	0	113
116	Formwork Erection and Cast-in items	20 days	Fri 26/1/30	Wed 26/2/18	Fri 26/1/30	Wed 26/2/18	Fri 26/1/30	Wed 26/2/18	0 days	0	115FS-10 days
117	Concreting	2 days	Mon 26/2/9	Tue 26/2/10	Mon 26/2/9	Tue 26/2/10	Mon 26/2/9	Tue 26/2/10	0 days	0	116FS-10 days
118	Backfilling and Compaction	30 days	Wed 26/2/11	Thu 26/3/12	Wed 26/2/11	Thu 26/3/12	Wed 26/2/11	Thu 26/3/12	0 days	0	117
119	Removal of Sheetpiles	30 days	Thu 26/2/26	Fri 26/3/27	Thu 26/2/26	Fri 26/3/27	Thu 26/2/26	Fri 26/3/27	0 days	0	118FS-15 days
120	Pedestrian Crossing no. 1	28 days	Sat 26/3/28	Fri 26/4/24	Sat 26/3/28	Fri 26/4/24	Fri 26/7/10	Thu 26/8/6	104 days	0	119
121	**SSNV02 CH.A500.00~CH.A559.5**	**119 days**	**Fri 26/3/13**	**Thu 26/7/9**	**Fri 26/3/13**	**Thu 26/7/9**	**Fri 26/3/13**	**Thu 26/7/9**	**0 days**		
122	Sheetpiling & Temp. Drainage Diversion	30 days	Fri 26/3/13	Sat 26/4/11	Fri 26/3/13	Sat 26/4/11	Fri 26/3/13	Sat 26/4/11	0 days	3	119FS-15 days,
123	Excavation and Lateral Support	30 days	Sat 26/3/28	Sun 26/4/26	Sat 26/3/28	Sun 26/4/26	Sat 26/3/28	Sun 26/4/26	0 days	3	122FS-15 days
124	**Ground and Edge Beams**	**30 days**	**Sun 26/4/12**	**Mon 26/5/11**	**Sun 26/4/12**	**Mon 26/5/11**	**Sun 26/4/12**	**Mon 26/5/11**	**0 days**		
125	Rebar Fixing	20 days	Sun 26/4/12	Fri 26/5/1	Sun 26/4/12	Fri 26/5/1	Sun 26/4/12	Fri 26/5/1	0 days	2	123FS-15 days
126	Formwork Erection and Cast-in items	20 days	Wed 26/4/22	Mon 26/5/11	Wed 26/4/22	Mon 26/5/11	Wed 26/4/22	Mon 26/5/11	0 days	2	125FS-10 days
127	Concreting	2 days	Sat 26/5/2	Sun 26/5/3	Sat 26/5/2	Sun 26/5/3	Sat 26/5/2	Sun 26/5/3	0 days	2	126FS-10 days
128	**Walls**	**30 days**	**Mon 26/5/4**	**Tue 26/6/2**	**Mon 26/5/4**	**Tue 26/6/2**	**Mon 26/5/4**	**Tue 26/6/2**	**0 days**		
129	Rebar Fixing	20 days	Mon 26/5/4	Sat 26/5/23	Mon 26/5/4	Sat 26/5/23	Mon 26/5/4	Sat 26/5/23	0 days	2	127
130	Formwork Erection and Cast-in items	20 days	Thu 26/5/14	Tue 26/6/2	Thu 26/5/14	Tue 26/6/2	Thu 26/5/14	Tue 26/6/2	0 days	2	129FS-10 days
131	Concreting	2 days	Sun 26/5/24	Mon 26/5/25	Sun 26/5/24	Mon 26/5/25	Sun 26/5/24	Mon 26/5/25	0 days	2	130FS-10 days
132	Backfilling and Compaction	30 days	Tue 26/5/26	Wed 26/6/24	Tue 26/5/26	Wed 26/6/24	Tue 26/5/26	Wed 26/6/24	0 days	0	131
133	Removal of Sheetpiles	30 days	Wed 26/6/10	Thu 26/7/9	Wed 26/6/10	Thu 26/7/9	Wed 26/6/10	Thu 26/7/9	0 days	0	132FS-15 days
134	Modify ex. Channel at Outlet	21 days	Fri 26/7/10	Thu 26/7/30	Fri 26/7/10	Thu 26/7/30	Fri 26/7/17	Thu 26/8/6	7 days	0	133
135	Connection to ex. Stream	28 days	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	0 days	0	133
136	U-channels	28 days	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	0 days	0	133
137	Facing stone	28 days	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	0 days	0	133
138	ABWF works	28 days	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	0 days	0	133
139	Bedding works	28 days	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	Fri 26/7/10	Thu 26/8/6	0 days	0	133
104											
105	**Section II**	**1071 days**	**Tue 23/5/30**	**Mon 26/5/4**	**Tue 23/5/30**	**Mon 26/5/4**	**Tue 23/5/30**	**Mon 26/5/4**	**0 days**		
2	access date of Portion B	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	0 days	0	\\WingTatNasC
3	section II (Tai Wo)	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days	0	\\WingTatNasC
4	Planned Completion Day	251 days	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	Wed 25/8/27	Mon 26/5/4	0 days		3
5	Early access [A]	144 days	Tue 23/5/30	Fri 23/10/20	Tue 23/5/30	Fri 23/10/20	Tue 23/5/30	Fri 23/10/20	0 days	0	\\WingTatNasC
6	**Site Establishment**	**461 days**	**Tue 23/9/26**	**Sun 24/12/29**	**Tue 23/9/26**	**Sun 24/12/29**	**Sat 23/10/21**	**Mon 26/5/4**	**25 days**		
7	Prepare and Accept Temp. Works Design and Method Statement	461 days	Tue 23/9/26	Sun 24/12/29	Tue 23/9/26	Sun 24/12/29	Wed 25/1/29	Mon 26/5/4	491 days	0	\\WingTatNasC
8	Public Liaison and Negotiation with Village Rep.	103 days	Fri 23/10/20	Tue 24/1/30	Fri 23/10/20	Tue 24/1/30	Wed 23/12/20	Sun 24/3/31	61 days	0	5FS-1 day
9	Initial Survey	80 days	Sat 23/10/21	Mon 24/1/8	Sat 23/10/21	Mon 24/1/8	Sat 23/10/21	Mon 24/1/8	0 days	0	5
10	Initial Safety & Environmental measures	80 days	Sat 23/10/21	Mon 24/1/8	Sat 23/10/21	Mon 24/1/8	Sat 23/10/21	Mon 24/1/8	0 days	0	5
12	EIAO Commencement of Construction	1 day	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Mon 24/4/8	Mon 24/4/8	47 days	0	\\WingTatNasC
13	Environmental Baseline Monitoring	15 days	Tue 24/1/23	Tue 24/2/6	Tue 24/1/23	Tue 24/2/6	Sun 24/3/10	Sun 24/3/24	47 days	0	12FS-30 days
14	**Subcontracting of works**	**120 days**	**Sat 23/10/21**	**Sat 24/2/17**	**Sat 23/10/21**	**Sat 24/2/17**	**Wed 24/6/26**	**Wed 24/10/23**	**249 days**		
15	Preparation of tendering documents	30 days	Sat 23/10/21	Sun 23/11/19	Sat 23/10/21	Sun 23/11/19	Wed 24/6/26	Thu 24/7/25	249 days	0	5
16	EWN007 Ambiguities on drawings	60 days	Mon 23/11/20	Thu 24/1/18	Mon 23/11/20	Thu 24/1/18	Fri 24/7/26	Mon 24/9/23	249 days	0	15
17	C9 Tendering procedure for Tai Wo RC works	30 days	Fri 24/1/19	Sat 24/2/17	Fri 24/1/19	Sat 24/2/17	Tue 24/9/24	Wed 24/10/23	249 days	0	16
19	Setup of instrumentation and monitoring	76 days	Tue 24/1/9	Sun 24/3/24	Tue 24/1/9	Sun 24/3/24	Tue 24/1/9	Sun 24/3/24	0 days	0	10,9
20	Condition Survey [A]	15 days	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	Sun 24/3/10	Sun 24/3/24	61 days	0	10,9
21	Tree Survey [A]	15 days	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	Wed 24/1/17	Wed 24/1/31	8 days	0	10,9
22	[PMIxxx] TPRP for Additional Trees (impact to be ascertained)	60 days	Wed 24/1/24	Sat 24/3/23	Wed 24/1/24	Sat 24/3/23	Thu 24/2/1	Sun 24/3/31	8 days	0	21
23	Establish access(es) to channels	15 days	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	0 days	0	10,9
24	[NCExxx] [EWN008] Blockade of access by others	68 days	Wed 24/1/24	Sun 24/3/31	Wed 24/1/24	Sun 24/3/31	Wed 24/1/24	Sun 24/3/31	0 days	0	23
25	UU detection [A]	7 days	Wed 24/1/24	Tue 24/1/30	Wed 24/1/24	Tue 24/1/30	Mon 24/3/25	Sun 24/3/31	61 days	0	20,23
26	Site Clearance [A]	7 days	Mon 24/3/25	Sun 24/3/31	Mon 24/3/25	Sun 24/3/31	Mon 24/3/25	Sun 24/3/31	0 days	0	21,19,13
27	**Drainage Channels Works (Dry Season Oct-Mar only)**	**764 days**	**Mon 24/4/1**	**Mon 26/5/4**	**Mon 24/4/1**	**Mon 26/5/4**	**Mon 24/4/1**	**Mon 26/5/4**	**0 days**		
28	[NCExxx] No works for wet season	183 days	Mon 24/4/1	Mon 24/9/30	Mon 24/4/1	Mon 24/9/30	Mon 24/4/1	Mon 24/9/30	0 days		26,25,8,24,22
29	Guarding / Barrier / Hoarding	22 days	Tue 24/10/1	Tue 24/10/22	Tue 24/10/1	Tue 24/10/22	Tue 24/10/1	Tue 24/10/22	0 days	0	28
30	Demolish fences and temp. structure	14 days	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	0 days	0	28
31	Demolish & relocate hoarding, fencing YLL803	14 days	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	0 days	0	28
32	**CH.A200~CH.A288.29**	**118 days**	**Tue 24/10/15**	**Sun 25/2/9**	**Tue 24/10/15**	**Sun 25/2/9**	**Tue 24/10/15**	**Sun 25/2/9**	**0 days**		
33	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	45 days	Tue 24/10/15	Thu 24/11/28	Tue 24/10/15	Thu 24/11/28	Tue 24/10/15	Thu 24/11/28	0 days	1	30,31,29FS-8 d
34	Excavation and Lateral Support	45 days	Thu 24/10/24	Sat 24/12/7	Thu 24/10/24	Sat 24/12/7	Thu 24/10/24	Sat 24/12/7	0 days	1	33FS-36 days,1
35	**Base Slab**	**49 days**	**Sat 24/11/2**	**Fri 24/12/20**	**Sat 24/11/2**	**Fri 24/12/20**	**Sat 24/11/2**	**Fri 24/12/20**	**0 days**		
36	Rebar Fixing	35 days	Sat 24/11/2	Fri 24/12/6	Sat 24/11/2	Fri 24/12/6	Sat 24/11/2	Fri 24/12/6	0 days	1	34FS-36 days
37	Formwork Erection and Cast-in items	35 days	Sat 24/11/16	Fri 24/12/20	Sat 24/11/16	Fri 24/12/20	Sat 24/11/16	Fn 24/12/20	0 days	1	36FS-21 days
38	Concreting	1 day	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	0 days	0	37FS-21 days
39	**Walls**	**49 days**	**Sun 24/12/1**	**Sat 25/1/18**	**Sun 24/12/1**	**Sat 25/1/18**	**Sun 24/12/1**	**Sat 25/1/18**	**0 days**	**0**	
40	Rebar Fixing	35 days	Sun 24/12/1	Sat 25/1/4	Sun 24/12/1	Sat 25/1/4	Sun 24/12/1	Sat 25/1/4	0 days	1	38
41	Formwork Erection and Cast-in items	35 days	Sun 24/12/15	Sat 25/1/18	Sun 24/12/15	Sat 25/1/18	Sun 24/12/15	Sat 25/1/18	0 days	1	40FS-21 days
42	Concreting	1 day	Sun 24/12/29	Sun 24/12/29	Sun 24/12/29	Sun 24/12/29	Sun 24/12/29	Sun 24/12/29	0 days	0	41FS-21 days



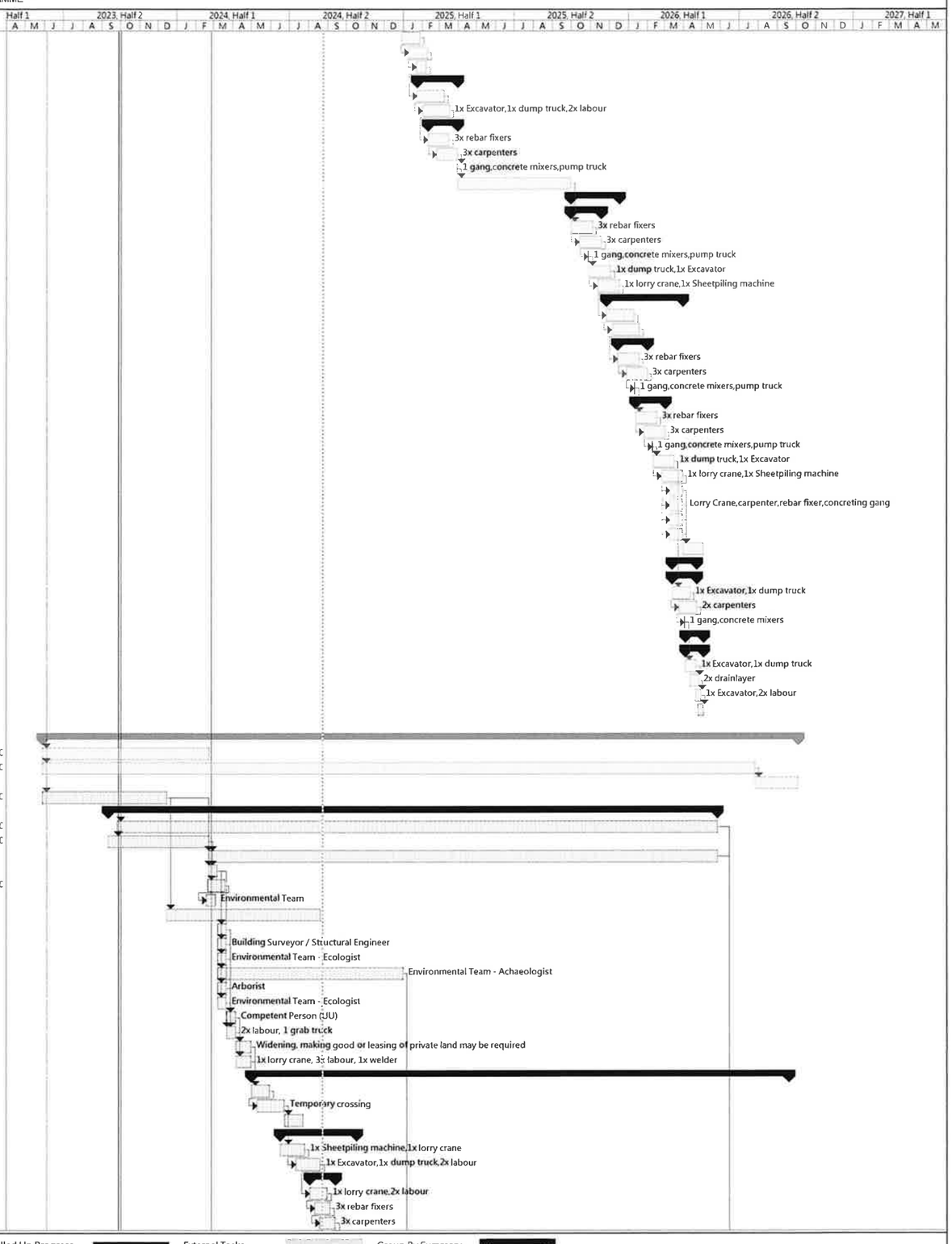
Revision : 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
43	**Backfilling and Compaction**	**30 days**	**Mon 24/12/30**	**Tue 25/1/28**	**Mon 24/12/30**	**Tue 25/1/28**	**Mon 24/12/30**	**Tue 25/1/28**	**0 days**	**0**	42
44	Removal of Sheetpiles	30 days	Sat 25/1/11	Sun 25/2/9	Sat 25/1/11	Sun 25/2/9	Sat 25/1/11	Sun 25/2/9	0 days	0	43FS-18 days
45	Connection to ex. Channel at Outlet	16 days	Thu 25/1/23	Fri 25/2/7	Thu 25/1/23	Fri 25/2/7	Thu 25/1/23	Fri 25/2/7	0 days	0	44FS-18 days
46	**CH.A100~CH.A200**	**67 days**	**Fri 25/1/24**	**Mon 25/3/31**	**Fri 25/1/24**	**Mon 25/3/31**	**Fri 25/1/24**	**Mon 25/3/31**	**0 days**		
47	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	45 days	Fri 25/1/24	Sun 25/3/9	Fri 25/1/24	Sun 25/3/9	Fri 25/1/24	Sun 25/3/9	0 days	1	45FS-15 days
48	Excavation and Lateral Support	45 days	Sun 25/2/2	Tue 25/3/18	Sun 25/2/2	Tue 25/3/18	Sun 25/2/2	Tue 25/3/18	0 days	1	47FS-36 days
49	Base Slab	49 days	**Tue 25/2/11**	**Mon 25/3/31**	**Tue 25/2/11**	**Mon 25/3/31**	**Tue 25/2/11**	**Mon 25/3/31**	**0 days**		
50	Rebar Fixing	35 days	Tue 25/2/11	Mon 25/3/17	Tue 25/2/11	Mon 25/3/17	Tue 25/2/11	Mon 25/3/17	0 days	1	48FS-36 days
51	Formwork Erection and Cast-in items	35 days	Tue 25/2/25	Mon 25/3/31	Tue 25/2/25	Mon 25/3/31	Tue 25/2/25	Mon 25/3/31	0 days	1	50FS-21 days
52	Concreting	1 day	Mon 25/3/31	Mon 25/3/31	Mon 25/3/31	Mon 25/3/31	Mon 25/3/31	Mon 25/3/31	0 days	0	51FS-1 day
53	No works at wet season	183 days	Tue 25/4/1	Tue 25/9/30	Tue 25/4/1	Tue 25/9/30	Tue 25/4/1	Tue 25/9/30	0 days	0	52
54	**CH.A100~CH.A200 (continue)**	78 days	**Wed 25/10/1**	**Wed 25/12/17**	**Wed 25/10/1**	**Wed 25/12/17**	**Wed 25/10/1**	**Wed 25/12/17**	**0 days**		
55	**Walls**	49 days	**Wed 25/10/1**	**Tue 25/11/18**	**Wed 25/10/1**	**Tue 25/11/18**	**Wed 25/10/1**	**Tue 25/11/18**	**0 days**		
56	Rebar Fixing	35 days	Wed 25/10/1	Tue 25/11/4	Wed 25/10/1	Tue 25/11/4	Wed 25/10/1	Tue 25/11/4	0 days	1	53
57	Formwork Erection and Cast-in items	35 days	Wed 25/10/15	Tue 25/11/18	Wed 25/10/15	Tue 25/11/18	Wed 25/10/15	Tue 25/11/18	0 days	1	56FS-21 days
58	Concreting	1 day	Wed 25/10/29	Wed 25/10/29	Wed 25/10/29	Wed 25/10/29	Wed 25/10/29	Wed 25/10/29	0 days	0	57FS-21 days
59	Backfilling and Compaction	35 days	Thu 25/10/30	Wed 25/12/3	Thu 25/10/30	Wed 25/12/3	Thu 25/10/30	Wed 25/12/3	0 days	0	58
60	Removal of Sheetpiles	35 days	Thu 25/11/13	Wed 25/12/17	Thu 25/11/13	Wed 25/12/17	Thu 25/11/13	Wed 25/12/17	0 days	0	59FS-21 days
61	**CH.A19.69~CH.A100**	**125 days**	**Thu 25/11/27**	**Tue 26/3/31**	**Thu 25/11/27**	**Tue 26/3/31**	**Thu 25/11/27**	**Tue 26/3/31**	**0 days**		
62	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	45 days	Thu 25/11/27	Sat 26/1/10	Thu 25/11/27	Sat 26/1/10	Thu 25/11/27	Sat 26/1/10	0 days	1	60FS-21 days
63	Excavation and Lateral Support	45 days	Sat 25/12/6	Mon 26/1/19	Sat 25/12/6	Mon 26/1/19	Sat 25/12/6	Mon 26/1/19	0 days	1	62FS-36 days
64	Base Slab	49 days	**Mon 25/12/15**	**Sun 26/2/1**	##########	**Sun 26/2/1**	##########	**Sun 26/2/1**	**0 days**		
65	Rebar Fixing	35 days	Mon 25/12/15	Sun 26/1/18	Mon 25/12/15	Sun 26/1/18	Mon 25/12/15	Sun 26/1/18	0 days	1	63FS-36 days
66	Formwork Erection and Cast-in items	35 days	Mon 25/12/29	Sun 26/2/1	Mon 25/12/29	Sun 26/2/1	Mon 25/12/29	Sun 26/2/1	0 days	1	65FS-21 days
67	Concreting	1 day	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	0 days	0	66FS-21 days
68	**Walls**	49 days	**Tue 26/1/13**	**Mon 26/3/2**	**Tue 26/1/13**	**Mon 26/3/2**	**Tue 26/1/13**	**Mon 26/3/2**	**0 days**		
69	Rebar Fixing	35 days	Tue 26/1/13	Mon 26/2/16	Tue 26/1/13	Mon 26/2/16	Tue 26/1/13	Mon 26/2/16	0 days	1	67
70	Formwork Erection and Cast-in items	35 days	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	Tue 26/1/27	Mon 26/3/2	0 days	1	69FS-21 days
71	Concreting	1 day	Tue 26/2/10	Tue 26/2/10	Tue 26/2/10	Tue 26/2/10	Tue 26/2/10	Tue 26/2/10	0 days	0	70FS-21 days
72	Backfilling and Compaction	35 days	Wed 26/2/11	Tue 26/3/17	Wed 26/2/11	Tue 26/3/17	Wed 26/2/11	Tue 26/3/17	0 days	0	71
73	Removal of Sheetpiles	35 days	Wed 26/2/25	Tue 26/3/31	Wed 26/2/25	Tue 26/3/31	Wed 26/2/25	Tue 26/3/31	0 days	0	72FS-21 days
74	900 pipe with flap valve	21 days	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	0 days	0	73FS-21 days
75	Box Culvert & Pedestrian Crossing	21 days	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	0 days	0	73FS-21 days
76	ABWF works	21 days	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	0 days	0	73FS-21 days
77	Bedding works	21 days	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	Wed 26/3/11	Tue 26/3/31	0 days	0	73FS-21 days
78	No works at wet season	34 days	Wed 26/4/1	Mon 26/5/4	Wed 26/4/1	Mon 26/5/4	Wed 26/4/1	Mon 26/5/4	0 days	0	74,75,76,77
79	**U-Channel Works**	41 days	**Sat 26/3/14**	**Thu 26/4/23**	**Sat 26/3/14**	**Thu 26/4/23**	**Sat 26/3/14**	**Thu 26/4/23**	**0 days**		
80	**CH.A0.00~CH.A16.40,900CU,L=16.40**	41 days	**Sat 26/3/14**	**Thu 26/4/23**	**Sat 26/3/14**	**Thu 26/4/23**	**Sat 26/3/14**	**Thu 26/4/23**	**0 days**		
81	Excavation and Lateral Support	30 days	Sat 26/3/14	Sun 26/4/12	Sat 26/3/14	Sun 26/4/12	Sat 26/3/14	Sun 26/4/12	0 days	1	72FS-4 days
82	Channel Formwork Erection	30 days	Wed 26/3/25	Thu 26/4/23	Wed 26/3/25	Thu 26/4/23	Wed 26/3/25	Thu 26/4/23	0 days	1	81FS-19 days
83	Concreting	1 day	Sat 26/4/4	Sat 26/4/4	Sat 26/4/4	Sat 26/4/4	Sat 26/4/4	Sat 26/4/4	0 days	0	82FS-20 days
84	**Drain Laying Works**	30 days	**Sun 26/4/5**	**Mon 26/5/4**	**Sun 26/4/5**	**Mon 26/5/4**	**Sun 26/4/5**	**Mon 26/5/4**	**0 days**		
85	**CH.A16.40~CH.A19.69,900PC,B,L=3.30,D=1.5**	30 days	**Sun 26/4/5**	**Mon 26/5/4**	**Sun 26/4/5**	**Mon 26/5/4**	**Sun 26/4/5**	**Mon 26/5/4**	**0 days**		
86	Excavation and Lateral Support	18 days	Sun 26/4/5	Wed 26/4/22	Sun 26/4/5	Wed 26/4/22	Sun 26/4/5	Wed 26/4/22	0 days	0	83
87	Drain Laying	14 days	Mon 26/4/13	Sun 26/4/26	Mon 26/4/13	Sun 26/4/26	Mon 26/4/13	Sun 26/4/26	0 days	0	86FS-10 days
88	Bedding and Backfilling	9 days	Wed 26/4/22	Thu 26/4/30	Wed 26/4/22	Thu 26/4/30	Wed 26/4/22	Thu 26/4/30	0 days	0	87FS-5 days
89	Reinstatement	9 days	Sun 26/4/26	Mon 26/5/4	Sun 26/4/26	Mon 26/5/4	Sun 26/4/26	Mon 26/5/4	0 days	0	88FS-5 days
106											
107	**Section III**	1225 days	**Tue 23/5/30**	**Mon 26/10/5**	**Tue 23/5/30**	**Mon 26/10/5**	**Tue 23/5/30**	**Mon 26/10/5**	**0 days**		
2	access date of Portion C1 & C2	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	0 days	0	\\WingTatNasC
3	section III (Lin Fa Tei)	1155 days	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	Tue 23/5/30	Mon 26/7/27	0 days	0	\\WingTatNasC
4	Planned Completion Day	70 days	Tue 26/7/28	Mon 26/10/5	Tue 26/7/28	Mon 26/10/5	Tue 26/7/28	Mon 26/10/5	0 days	0	3
5	Early access (partial) [A]	200 days	Tue 23/5/30	Fri 23/12/15	Tue 23/5/30	Fri 23/12/15	Wed 23/8/23	Sat 24/3/9	85 days	0	\\WingTatNasC
6	**Site Establishment**	**989 days**	**Tue 23/9/12**	**Wed 26/5/27**	**Tue 23/9/12**	**Wed 26/5/27**	**Wed 23/9/27**	**Mon 26/10/5**	**15 days**		
7	Prepare and Accept Temp. Works Design and Method Statement	975 days	Tue 23/9/26	Wed 26/5/27	Tue 23/9/26	Wed 26/5/27	Tue 23/10/31	Wed 26/7/1	35 days	0	\\WingTatNasC
8	Public Liaison and Negotiation with Village Rep. [A]	164 days	Tue 23/9/12	Thu 24/2/22	Tue 23/9/12	Thu 24/2/22	Wed 23/9/27	Fri 24/3/8	15 days	0	\\WingTatNasC
9	Initial Survey	825 days	Fri 24/2/23	Wed 26/5/27	Fri 24/2/23	Wed 26/5/27	Fri 24/3/29	Wed 26/7/1	35 days	0	8,5FS-1 day
11	Initial Safety & Environmental measures [A]	14 days	Fri 24/2/23	Thu 24/3/7	Fri 24/2/23	Thu 24/3/7	Sat 24/3/9	Fri 24/3/22	15 days	0	8,5FS-1 day
13	EIAO Commencement of Construction [A]	28 days	Wed 24/2/21	Tue 24/3/19	Wed 24/2/21	Tue 24/3/19	Tue 26/9/8	Mon 26/10/5	930 days	0	\\WingTatNasC
15	Environmental Baseline Monitoring [A]	15 days	Mon 24/2/19	Mon 24/3/4	Mon 24/2/19	Mon 24/3/4	Mon 26/9/21	Mon 26/10/5	945 days	0	13FS-30 days
16	Subcontracting of works	250 days	Sat 23/12/16	Wed 24/8/21	Sat 23/12/16	Wed 24/8/21	Thu 26/1/29	Mon 26/10/5	775 days	0	5
17	Setup of instrumentation and monitoring [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Sat 24/3/23	Sat 24/4/6	15 days	0	11
18	Condition Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Sat 24/3/23	Sat 24/4/6	15 days	0	11
19	Freshwater Crab Translocation Plan [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Sat 24/3/23	Sat 24/4/6	15 days	0	11
20	Archaeological Survey	300 days	Fri 24/3/8	Wed 25/1/1	Fri 24/3/8	Wed 25/1/1	Fri 25/7/4	Wed 26/4/29	483 days	0	11
21	Tree Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Sat 24/3/23	Sat 24/4/6	15 days	0	11
22	Vegetation Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Sat 24/3/23	Sat 24/4/6	15 days	0	11
23	UU detection [A]	15 days	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	Sun 24/4/7	Sun 24/4/21	15 days	0	18,19
24	Site Clearance [A]	15 days	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	Sun 24/4/7	Sun 24/4/21	15 days	0	21,17,11,22
25	Establish access(es) to channels [A]	25 days	Sun 24/4/7	Wed 24/5/1	Sun 24/4/7	Wed 24/5/1	Mon 24/4/22	Thu 24/5/16	15 days	0	24,23
26	Guarding / Barrier / Hoarding [A]	25 days	Sun 24/4/7	Wed 24/5/1	Sun 24/4/7	Wed 24/5/1	Mon 24/4/22	Thu 24/5/16	15 days	0	24,23
27	**Drainage Channels Works**	872 days	**Thu 24/5/2**	**Sun 26/9/20**	**Thu 24/5/2**	**Sun 26/9/20**	**Fri 24/5/17**	**Mon 26/10/5**	15 days		
28	Demolish & relocate retaining wall YLL795/A/4-5 [A]	30 days	Thu 24/5/2	Fri 24/5/31	Thu 24/5/2	Fri 24/5/31	Fri 24/5/17	Sat 24/6/15	15 days	0	26,25
29	Pedestrian & Vehicular Crossing no. 1 [A]	45 days	Sat 24/5/11	Mon 24/6/24	Sat 24/5/11	Mon 24/6/24	Sun 24/5/26	Tue 24/7/9	15 days	4	28FS-21 days
30	CLP Cable Trough	30 days	Tue 24/6/25	Wed 24/7/24	Tue 24/6/25	Wed 24/7/24	Sun 26/9/6	Mon 26/10/5	803 days	3	29
31	**LFT06 CH.A173.5~CH.A227.75 (PVC1)**	123 days	**Tue 24/6/18**	**Fri 24/10/18**	**Tue 24/6/18**	**Fri 24/10/18**	**Wed 24/7/3**	**Sat 24/11/2**	15 days		
32	Temp. Drainage Diversion / Sheetpiling [A]	40 days	Tue 24/6/18	Sat 24/7/27	Tue 24/6/18	Sat 24/7/27	Wed 24/7/3	Sun 24/8/11	15 days	1	29FS-7 days
33	Excavation and Lateral Support [A]	40 days	Sat 24/7/13	Wed 24/8/21	Sat 24/7/13	Wed 24/8/21	Sun 24/7/28	Thu 24/9/5	15 days	1	32FS-15 days
34	**Ground and Edge Beams**	41 days	**Mon 24/8/5**	**Sat 24/9/14**	**Mon 24/8/5**	**Sat 24/9/14**	**Tue 24/8/20**	**Sun 24/9/29**	15 days		
35	Install precast reinforcement cage (ground beam)	28 days	Mon 24/8/5	Sun 24/9/1	Mon 24/8/5	Sun 24/9/1	Tue 24/8/20	Mon 24/9/16	15 days	0	33FS-17 days
36	Rebar Fixing	25 days	Tue 24/8/13	Fri 24/9/6	Tue 24/8/13	Fri 24/9/6	Wed 24/8/28	Sat 24/9/21	15 days	1	35FS-20 days
37	Formwork Erection and Cast-in items	25 days	Wed 24/8/21	Sat 24/9/14	Wed 24/8/21	Sat 24/9/14	Thu 24/9/5	Sun 24/9/29	15 days	1	36FS-17 days



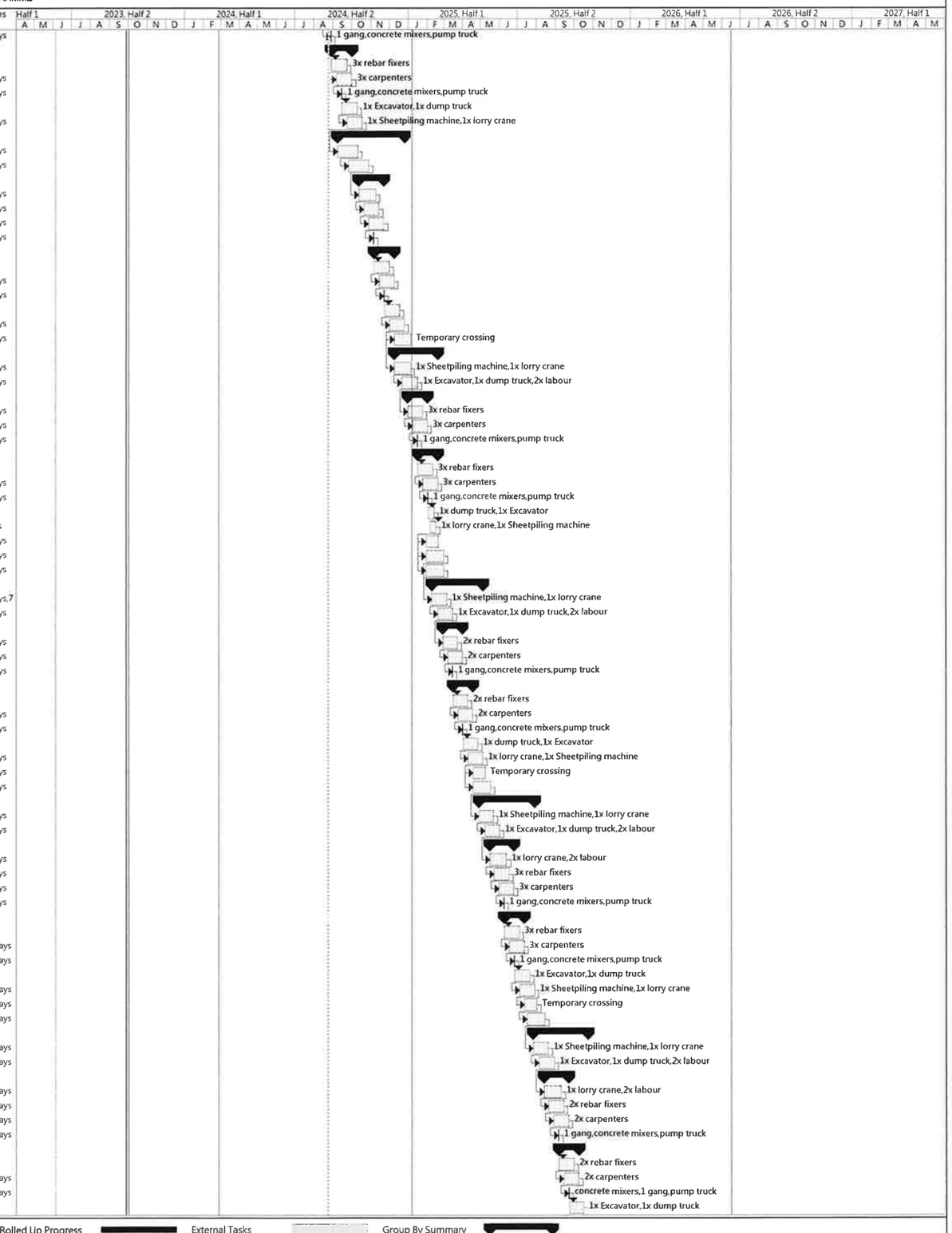
Revision : 11.0 Date: 31 July 2024

Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
38	Concreting	1 day	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	Fri 24/9/13	Fri 24/9/13	15 days	0	37FS-17 days
39	Walls	33 days	Fri 24/8/30	Tue 24/10/1	Fri 24/8/30	Tue 24/10/1	Sat 24/9/14	Wed 24/10/16	15 days		
40	Rebar Fixing	25 days	Fri 24/8/30	Mon 24/9/23	Fri 24/8/30	Mon 24/9/23	Sat 24/9/14	Tue 24/10/8	15 days	1	38
41	Formwork Erection and Cast-in items	25 days	Sat 24/9/7	Tue 24/10/1	Sat 24/9/7	Tue 24/10/1	Sun 24/9/22	Wed 24/10/16	15 days	1	40FS-17 days
42	Concreting	1 day	Sun 24/9/15	Sun 24/9/15	Sun 24/9/15	Sun 24/9/15	Mon 24/9/30	Mon 24/9/30	15 days	0	41FS-17 days
43	Backfilling and Compaction	25 days	Mon 24/9/16	Thu 24/10/10	Mon 24/9/16	Thu 24/10/10	Tue 24/10/1	Fri 24/10/25	15 days	0	42
44	Removal of Sheetpiles	25 days	Tue 24/9/24	Fri 24/10/18	Tue 24/9/24	Fri 24/10/18	Wed 24/10/9	Sat 24/11/2	15 days	0	43FS-17 days
45	LFT07 CH.A227.5~CH.A300.75	109 days	Mon 24/9/9	Thu 24/12/26	Mon 24/9/9	Thu 24/12/26	Tue 24/9/24	Fri 25/1/10	15 days		
46	Temp, Drainage Diversion / Sheetpiling	33 days	Mon 24/9/9	Fri 24/10/11	Mon 24/9/9	Fri 24/10/11	Tue 24/9/24	Sat 24/10/26	15 days	0	44FS-40 days
47	Excavation and Lateral Support	33 days	Fri 24/9/27	Tue 24/10/29	Fri 24/9/27	Tue 24/10/29	Sat 24/10/12	Wed 24/11/13	15 days	0	46FS-15 days
48	Ground and Edge Beams	41 days	Sun 24/10/13	Fri 24/11/22	Sun 24/10/13	Fri 24/11/22	##########	Sat 24/12/7	15 days		
49	Install precast reinforcement cage (ground beam)	28 days	Sun 24/10/13	Sat 24/11/9	Sun 24/10/13	Sat 24/11/9	Mon 24/10/28	Sun 24/11/24	15 days	0	47FS-17 days
50	Rebar Fixing	25 days	Mon 24/10/21	Thu 24/11/14	Mon 24/10/21	Thu 24/11/14	Tue 24/11/5	Fri 24/11/29	15 days	0	49FS-20 days
51	Formwork Erection and Cast-in items	25 days	Tue 24/10/29	Fri 24/11/22	Tue 24/10/29	Fri 24/11/22	Wed 24/11/13	Sat 24/12/7	15 days	0	50FS-17 days
52	Concreting	1 day	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	Thu 24/11/21	Thu 24/11/21	15 days	0	51FS-17 days
53	Walls	33 days	Thu 24/11/7	Mon 24/12/9	Thu 24/11/7	Mon 24/12/9	Fri 24/11/22	Tue 24/12/24	15 days		
54	Rebar Fixing	25 days	Thu 24/11/7	Sun 24/12/1	Thu 24/11/7	Sun 24/12/1	Fri 24/11/22	Mon 24/12/16	15 days	0	52
55	Formwork Erection and Cast-in items	25 days	Fri 24/11/15	Mon 24/12/9	Fri 24/11/15	Mon 24/12/9	Sat 24/11/30	Tue 24/12/24	15 days	0	54FS-17 days
56	Concreting	1 day	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	Sun 24/12/8	Sun 24/12/8	15 days	0	55FS-17 days
57	Backfilling and Compaction	25 days	Sun 24/11/24	Wed 24/12/18	Sun 24/11/24	Wed 24/12/18	Mon 24/12/9	Thu 25/1/2	15 days	0	56
58	Removal of Sheetpiles	25 days	Mon 24/12/2	Thu 24/12/26	Mon 24/12/2	Thu 24/12/26	Tue 24/12/17	Fri 25/1/10	15 days	0	57FS-17 days
59	Pedestrian & Vehicular Crossing no. 2	28 days	Tue 24/12/10	Mon 25/1/6	Tue 24/12/10	Mon 25/1/6	Tue 26/9/8	Mon 26/10/5	637 days	4	58FS-17 days
60	LFT05 CH.A163.00~CH.A173.50	72 days	Tue 24/12/10	Wed 25/2/19	Tue 24/12/10	Wed 25/2/19	Wed 24/12/25	Thu 25/3/6	15 days		
61	Temp, Drainage Diversion / Sheetpiling	27 days	Tue 24/12/10	Sun 25/1/5	Tue 24/12/10	Sun 25/1/5	Wed 24/12/25	Mon 25/1/20	15 days	0	58FS-17 days
62	Excavation and Lateral Support	27 days	Sun 24/12/22	Fri 25/1/17	Sun 24/12/22	Fri 25/1/17	Mon 25/1/6	Sat 25/2/1	15 days	0	61FS-15 days
63	Ground and Edge Beams	33 days	Wed 25/1/1	Sun 25/2/2	Wed 25/1/1	Sun 25/2/2	Thu 25/1/16	Mon 25/2/17	15 days		
64	Rebar Fixing	25 days	Wed 25/1/1	Sat 25/1/25	Wed 25/1/1	Sat 25/1/25	Thu 25/1/16	Sun 25/2/9	15 days	0	62FS-17 days
65	Formwork Erection and Cast-in items	25 days	Thu 25/1/9	Sun 25/2/2	Thu 25/1/9	Sun 25/2/2	Fri 25/1/24	Mon 25/2/17	15 days	0	64FS-17 days
66	Concreting	1 day	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	Sat 25/2/1	Sat 25/2/1	15 days	0	65FS-17 days
67	Walls	33 days	Sat 25/1/18	Wed 25/2/19	Sat 25/1/18	Wed 25/2/19	Sun 25/2/2	Thu 25/3/6	15 days		
68	Rebar Fixing	25 days	Sat 25/1/18	Tue 25/2/11	Sat 25/1/18	Tue 25/2/11	Sun 25/2/2	Wed 25/2/26	15 days	0	66
69	Formwork Erection and Cast-in items	25 days	Sun 25/1/26	Wed 25/2/19	Sun 25/1/26	Wed 25/2/19	Mon 25/2/10	Thu 25/3/6	15 days	0	68FS-17 days
70	Concreting	1 day	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	Tue 25/2/18	Tue 25/2/18	15 days	0	69FS-17 days
71	Backfilling and Compaction	10 days	Tue 25/2/4	Thu 25/2/13	Tue 25/2/4	Thu 25/2/13	Wed 25/2/19	Fri 25/2/28	15 days	0	70
72	Removal of Sheetpiles	10 days	Fri 25/2/7	Sun 25/2/16	Fri 25/2/7	Sun 25/2/16	Sat 25/2/22	Mon 25/3/3	15 days	0	71FS-7 days
73	Animal Escape Ramps	21 days	Fri 25/1/31	Thu 25/2/20	Fri 25/1/31	Thu 25/2/20	Tue 26/9/15	Mon 26/10/5	592 days	0	72FS-17 days
74	Demolish & relocate retaining wall YLL796/A/5-6	30 days	Fri 25/1/31	Sat 25/3/1	Fri 25/1/31	Sat 25/3/1	Sat 25/2/15	Sun 25/3/16	15 days	0	72FS-17 days
75	Demolish & relocate AFCD Weir & pedestrian crossing	30 days	Fri 25/1/31	Sat 25/3/1	Fri 25/1/31	Sat 25/3/1	Sat 25/2/15	Sun 25/3/16	15 days	0	72FS-17 days
76	LFT02 CH.A100.00~CH.A163.00	85 days	Mon 25/2/10	Mon 25/5/5	Mon 25/2/10	Mon 25/5/5	Tue 25/2/25	Tue 25/5/20	15 days		
77	Temp, Drainage Diversion / Sheetpiling	25 days	Mon 25/2/10	Thu 25/3/6	Mon 25/2/10	Thu 25/3/6	Tue 25/2/25	Fri 25/3/21	15 days	0	74FS-20 days,7
78	Excavation and Lateral Support	25 days	Thu 25/2/20	Sun 25/3/16	Thu 25/2/20	Sun 25/3/16	Fri 25/3/7	Mon 25/3/31	15 days	0	77FS-15 days
79	Ground and Edge Beams	33 days	Fri 25/2/28	Tue 25/4/1	Fri 25/2/28	Tue 25/4/1	Sat 25/3/15	Wed 25/4/16	15 days		
80	Rebar Fixing	25 days	Fri 25/2/28	Mon 25/3/24	Fri 25/2/28	Mon 25/3/24	Sat 25/3/15	Tue 25/4/8	15 days	0	78FS-17 days
81	Formwork Erection and Cast-in items	25 days	Sat 25/3/8	Tue 25/4/1	Sat 25/3/8	Tue 25/4/1	Sun 25/3/23	Wed 25/4/16	15 days	0	80FS-17 days
82	Concreting	1 day	Sun 25/3/16	Sun 25/3/16	Sun 25/3/16	Sun 25/3/16	Mon 25/3/31	Mon 25/3/31	15 days	0	81FS-17 days
83	Walls	33 days	Mon 25/3/17	Fri 25/4/18	Mon 25/3/17	Fri 25/4/18	Tue 25/4/1	Sat 25/5/3	15 days		
84	Rebar Fixing	25 days	Mon 25/3/17	Thu 25/4/10	Mon 25/3/17	Thu 25/4/10	Tue 25/4/1	Fri 25/4/25	15 days	0	82
85	Formwork Erection and Cast-in items	25 days	Tue 25/3/25	Fri 25/4/18	Tue 25/3/25	Fri 25/4/18	Wed 25/4/9	Sat 25/5/3	15 days	0	84FS-17 days
86	Concreting	1 day	Wed 25/4/2	Wed 25/4/2	Wed 25/4/2	Wed 25/4/2	Thu 25/4/17	Thu 25/4/17	15 days	0	85FS-17 days
87	Backfilling and Compaction	25 days	Thu 25/4/3	Sun 25/4/27	Thu 25/4/3	Sun 25/4/27	Fri 25/4/18	Mon 25/5/12	15 days	0	86
88	Removal of Sheetpiles	25 days	Fri 25/4/11	Mon 25/5/5	Fri 25/4/11	Mon 25/5/5	Sat 25/4/26	Tue 25/5/20	15 days	0	87FS-17 days
89	Pedestrian Crossing no. 2	21 days	Sat 25/4/19	Fri 25/5/9	Sat 25/4/19	Fri 25/5/9	Tue 26/9/15	Mon 26/10/5	514 days	3	88FS-17 days
90	Demolish & relocate retaining wall YLL796/A/14-15	30 days	Sat 25/4/19	Sun 25/5/18	Sat 25/4/19	Sun 25/5/18	Sun 25/5/4	Mon 25/6/2	15 days	0	88FS-17 days
91	LFT08 CH.A300.75~CH.A391.0	92 days	Tue 25/4/29	Tue 25/7/29	Tue 25/4/29	Tue 25/7/29	Wed 25/5/14	Wed 25/8/13	15 days		
92	Temp, Drainage Diversion / Sheetpiling	25 days	Tue 25/4/29	Fri 25/5/23	Tue 25/4/29	Fri 25/5/23	Wed 25/5/14	Sat 25/6/7	15 days	1	90FS-20 days
93	Excavation and Lateral Support	25 days	Fri 25/5/9	Mon 25/6/2	Fri 25/5/9	Mon 25/6/2	Sat 25/5/24	Tue 25/6/17	15 days	1	92FS-15 days
94	Ground and Edge Beams	40 days	Sat 25/5/17	Wed 25/6/25	Sat 25/5/17	Wed 25/6/25	Sun 25/6/1	Thu 25/7/10	15 days		
95	Install precast portion (ground beam)	28 days	Sat 25/5/17	Fri 25/6/13	Sat 25/5/17	Fri 25/6/13	Sun 25/6/1	Sat 25/6/28	15 days	0	93FS-17 days
96	Rebar Fixing	25 days	Sat 25/5/24	Tue 25/6/17	Sat 25/5/24	Tue 25/6/17	Sun 25/6/8	Wed 25/7/2	15 days	1	95FS-21 days
97	Formwork Erection and Cast-in items	25 days	Sun 25/6/1	Wed 25/6/25	Sun 25/6/1	Wed 25/6/25	Mon 25/6/16	Thu 25/7/10	15 days	1	96FS-17 days
98	Concreting	1 day	Mon 25/6/9	Mon 25/6/9	Mon 25/6/9	Mon 25/6/9	Tue 25/6/24	Tue 25/6/24	15 days	0	97FS-17 days
99	Walls	33 days	Tue 25/6/10	Sat 25/7/12	Tue 25/6/10	Sat 25/7/12	Wed 25/6/25	Sun 25/7/27	15 days		
100	Rebar Fixing	25 days	Tue 25/6/10	Fri 25/7/4	Tue 25/6/10	Fri 25/7/4	Wed 25/6/25	Sat 25/7/19	15 days	1	98
101	Formwork Erection and Cast-in items	25 days	Wed 25/6/18	Sat 25/7/12	Wed 25/6/18	Sat 25/7/12	Thu 25/7/3	Sun 25/7/27	15 days	1	100FS-17 days
102	Concreting	1 day	Thu 25/6/26	Thu 25/6/26	Thu 25/6/26	Thu 25/6/26	Fri 25/7/11	Fri 25/7/11	15 days	0	101FS-17 days
103	Backfilling and Compaction	25 days	Fri 25/6/27	Mon 25/7/21	Fri 25/6/27	Mon 25/7/21	Sat 25/7/12	Tue 25/8/5	15 days	0	102
104	Removal of Sheetpiles	25 days	Sat 25/7/5	Tue 25/7/29	Sat 25/7/5	Tue 25/7/29	Sun 25/7/20	Wed 25/8/13	15 days	0	103FS-17 days
105	Pedestrian Crossing no. 4	21 days	Sun 25/7/13	Sat 25/8/2	Sun 25/7/13	Sat 25/8/2	Mon 25/7/28	Sun 25/8/17	15 days	3	104FS-17 days
106	Demolition of existing crossing	30 days	Thu 25/7/17	Fri 25/8/15	Thu 25/7/17	Fri 25/8/15	Fri 25/8/1	Sat 25/8/30	15 days	0	105FS-17 days
107	LFT01 CH.A0.00~CH.A100.00 (PC1~PC2)	90 days	Sun 25/7/27	Fri 25/10/24	Sun 25/7/27	Fri 25/10/24	Mon 25/8/11	Sat 25/11/8	15 days		
108	Temp, Drainage Diversion / Sheetpiling	25 days	Sun 25/7/27	Wed 25/8/20	Sun 25/7/27	Wed 25/8/20	Mon 25/8/11	Thu 25/9/4	15 days	1	106FS-20 days
109	Excavation and Lateral Support	25 days	Wed 25/8/6	Sat 25/8/30	Wed 25/8/6	Sat 25/8/30	Thu 25/8/21	Sun 25/9/14	15 days	1	108FS-15 days
110	Ground and Edge Beams	40 days	Thu 25/8/14	Mon 25/9/22	Thu 25/8/14	Mon 25/9/22	Fri 25/8/29	Tue 25/10/7	15 days		
111	Install precast portion (ground beam)	28 days	Thu 25/8/14	Wed 25/9/10	Thu 25/8/14	Wed 25/9/10	Fri 25/8/29	Thu 25/9/25	15 days	0	109FS-17 days
112	Rebar Fixing	25 days	Thu 25/8/21	Sun 25/9/14	Thu 25/8/21	Sun 25/9/14	Fri 25/9/5	Mon 25/9/29	15 days	1	111FS-21 days
113	Formwork Erection and Cast-in items	25 days	Fri 25/8/29	Mon 25/9/22	Fri 25/8/29	Mon 25/9/22	Sat 25/9/13	Tue 25/10/7	15 days	1	112FS-17 days
114	Concreting	1 day	Sat 25/9/6	Sat 25/9/6	Sat 25/9/6	Sat 25/9/6	Sun 25/9/21	Sun 25/9/21	15 days	0	113FS-17 days
115	Walls	33 days	Sun 25/9/7	Thu 25/10/9	Sun 25/9/7	Thu 25/10/9	Mon 25/9/22	Fri 25/10/24	15 days		
116	Rebar Fixing	25 days	Sun 25/9/7	Wed 25/10/1	Sun 25/9/7	Wed 25/10/1	Mon 25/9/22	Thu 25/10/16	15 days	1	114
117	Formwork Erection and Cast-in items	25 days	Mon 25/9/15	Thu 25/10/9	Mon 25/9/15	Thu 25/10/9	Tue 25/9/30	Fri 25/10/24	15 days	1	116FS-17 days
118	Concreting	1 day	Tue 25/9/23	Tue 25/9/23	Tue 25/9/23	Tue 25/9/23	Wed 25/10/8	Wed 25/10/8	15 days	0	117FS-17 days
119	Backfilling and Compaction	24 days	Wed 25/9/24	Fri 25/10/17	Wed 25/9/24	Fri 25/10/17	Thu 25/10/9	Sat 25/11/1	15 days	0	118



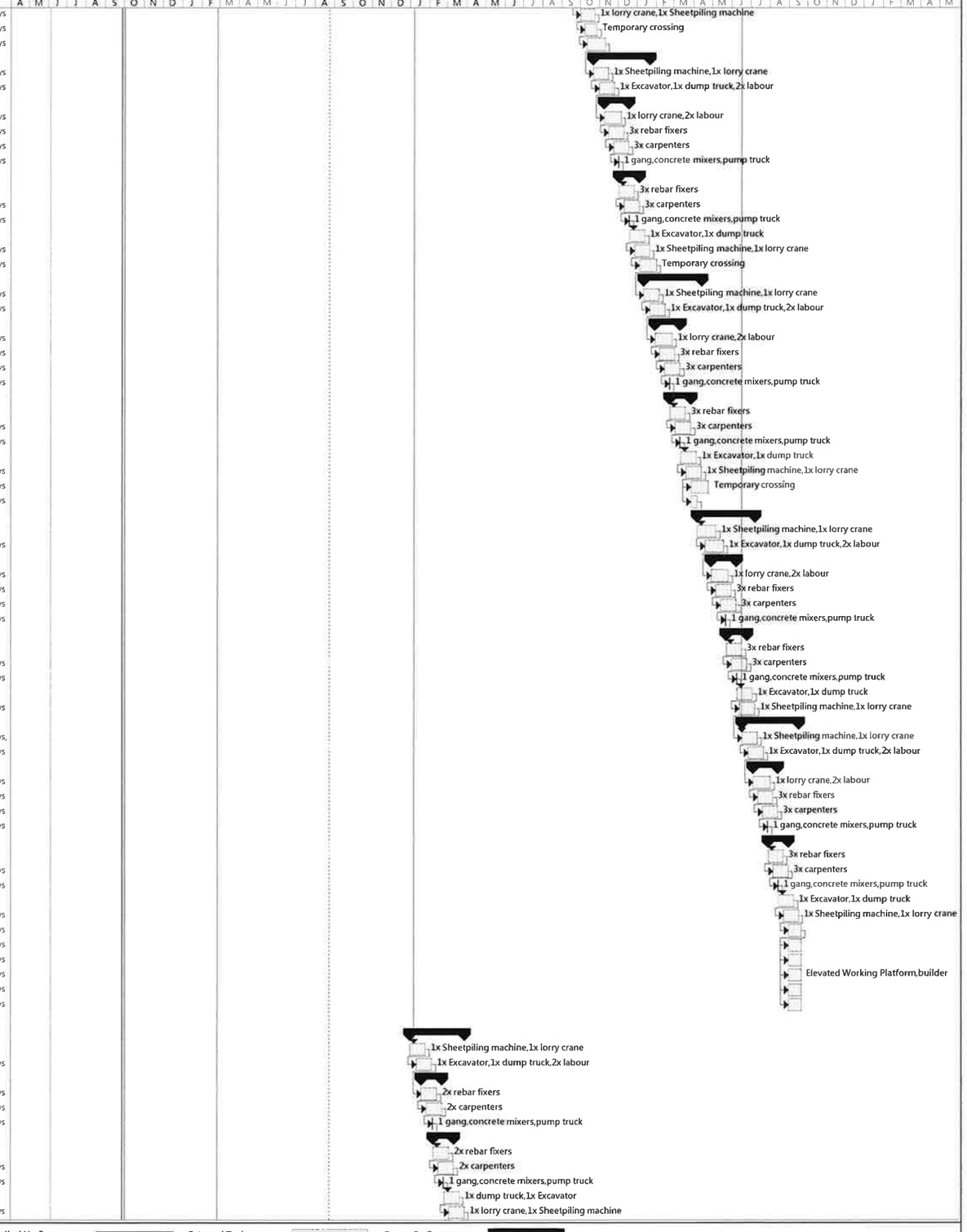
Revision : 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
120	Removal of Sheetpiles	24 days	Wed 25/10/1	Fri 25/10/24	Wed 25/10/1	Fri 25/10/24	Thu 25/10/16	Sat 25/11/8	15 days	0	119FS-17 days
121	Pedestrian Crossing no. 1	21 days	Wed 25/10/8	Tue 25/10/28	Wed 25/10/8	Tue 25/10/28	Thu 25/10/23	Wed 25/11/12	15 days	0	120FS-17 days
122	Demolish & relocate retaining wall YLL796/A/20-22	30 days	Sun 25/10/12	Mon 25/11/10	Sun 25/10/12	Mon 25/11/10	Mon 25/10/27	Tue 25/11/25	15 days	0	121FS-17 days
123	**LFT09 CH.A391.00~CH.A464.00**	**92 days**	**Wed 25/10/22**	**Wed 26/1/21**	**Wed 25/10/22**	**Wed 26/1/21**	**Thu 25/11/6**	**Thu 26/2/5**	**15 days**		
124	Temp. Drainage Diversion / Sheetpiling	25 days	Wed 25/10/22	Sat 25/11/15	Wed 25/10/22	Sat 25/11/15	Thu 25/11/6	Sun 25/11/30	15 days	1	122FS-20 days
125	Excavation and Lateral Support	25 days	Sat 25/11/1	Tue 25/11/25	Sat 25/11/1	Tue 25/11/25	Sun 25/11/16	Wed 25/12/10	15 days	1	124FS-15 days
126	**Ground and Edge Beams**	**40 days**	**Sun 25/11/9**	**Thu 25/12/18**	**Sun 25/11/9**	**Thu 25/12/18**	**##########**	**Fri 26/1/2**	**15 days**		
127	Install precast portion (ground beam)	28 days	Sun 25/11/9	Sat 25/12/6	Sun 25/11/9	Sat 25/12/6	Mon 25/11/24	Sun 25/12/21	15 days	0	125FS-17 days
128	Rebar Fixing	25 days	Sun 25/11/16	Wed 25/12/10	Sun 25/11/16	Wed 25/12/10	Mon 25/12/1	Thu 25/12/25	15 days	1	127FS-21 days
129	Formwork Erection and Cast-in items	25 days	Mon 25/11/24	Thu 25/12/18	Mon 25/11/24	Thu 25/12/18	Tue 25/12/9	Fri 26/1/2	15 days	1	128FS-17 days
130	Concreting	1 day	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	Wed 25/12/17	Wed 25/12/17	15 days	0	129FS-17 days
131	**Walls**	**33 days**	**Wed 25/12/3**	**Sun 26/1/4**	**Wed 25/12/3**	**Sun 26/1/4**	**Thu 25/12/18**	**Mon 26/1/19**	**15 days**		
132	Rebar Fixing	25 days	Wed 25/12/3	Sat 25/12/27	Wed 25/12/3	Sat 25/12/27	Thu 25/12/18	Sun 26/1/11	15 days	1	130
133	Formwork Erection and Cast-in items	25 days	Thu 25/12/11	Sun 26/1/4	Thu 25/12/11	Sun 26/1/4	Fri 25/12/26	Mon 26/1/19	15 days	1	132FS-17 days
134	Concreting	1 day	Fri 25/12/19	Fri 25/12/19	Fri 25/12/19	Fri 25/12/19	Sat 26/1/3	Sat 26/1/3	15 days	0	133FS-17 days
135	Backfilling and Compaction	25 days	Sat 25/12/20	Tue 26/1/13	Sat 25/12/20	Tue 26/1/13	Sun 26/1/4	Wed 26/1/28	15 days	0	134
136	Removal of Sheetpiles	25 days	Sun 25/12/28	Wed 26/1/21	Sun 25/12/28	Wed 26/1/21	Mon 26/1/12	Thu 26/2/5	15 days	0	135FS-17 days
137	Pedestrian & Vehicular Crossing no. 3	28 days	Mon 26/1/5	Sun 26/2/1	Mon 26/1/5	Sun 26/2/1	Tue 26/1/20	Mon 26/2/16	15 days	4	136FS-17 days
138	**LFT10 CH.A464.00~CH.A554.00**	**92 days**	**Mon 26/1/12**	**Mon 26/4/13**	**Mon 26/1/12**	**Mon 26/4/13**	**Tue 26/1/27**	**Tue 26/4/28**	**15 days**		
139	Temp. Drainage Diversion / Sheetpiling	25 days	Mon 26/1/12	Thu 26/2/5	Mon 26/1/12	Thu 26/2/5	Tue 26/1/27	Fri 26/2/20	15 days	1	137FS-21 days
140	Excavation and Lateral Support	25 days	Thu 26/1/22	Sun 26/2/15	Thu 26/1/22	Sun 26/2/15	Fri 26/2/6	Mon 26/3/2	15 days	1	139FS-15 days
141	**Ground and Edge Beams**	**40 days**	**Fri 26/1/30**	**Tue 26/3/10**	**Fri 26/1/30**	**Tue 26/3/10**	**Sat 26/2/14**	**Wed 26/3/25**	**15 days**		
142	Install precast portion (ground beam)	28 days	Fri 26/1/30	Thu 26/2/26	Fri 26/1/30	Thu 26/2/26	Sat 26/2/14	Fri 26/3/13	15 days	0	140FS-17 days
143	Rebar Fixing	25 days	Fri 26/2/6	Mon 26/3/2	Fri 26/2/6	Mon 26/3/2	Sat 26/2/21	Tue 26/3/17	15 days	1	142FS-21 days
144	Formwork Erection and Cast-in items	25 days	Sat 26/2/14	Tue 26/3/10	Sat 26/2/14	Tue 26/3/10	Sun 26/3/1	Wed 26/3/25	15 days	1	143FS-17 days
145	Concreting	1 day	Sun 26/2/22	Sun 26/2/22	Sun 26/2/22	Sun 26/2/22	Mon 26/3/9	Mon 26/3/9	15 days	0	144FS-17 days
146	**Walls**	**33 days**	**Mon 26/2/23**	**Fri 26/3/27**	**Mon 26/2/23**	**Fri 26/3/27**	**Tue 26/3/10**	**Sat 26/4/11**	**15 days**		
147	Rebar Fixing	25 days	Mon 26/2/23	Thu 26/3/19	Mon 26/2/23	Thu 26/3/19	Tue 26/3/10	Fri 26/4/3	15 days	1	145
148	Formwork Erection and Cast-in items	25 days	Tue 26/3/3	Fri 26/3/27	Tue 26/3/3	Fri 26/3/27	Wed 26/3/18	Sat 26/4/11	15 days	1	147FS-17 days
149	Concreting	1 day	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	Thu 26/3/26	Thu 26/3/26	15 days	0	148FS-17 days
150	Backfilling and Compaction	25 days	Thu 26/3/12	Sun 26/4/5	Thu 26/3/12	Sun 26/4/5	Fri 26/3/27	Mon 26/4/20	15 days	0	149
151	Removal of Sheetpiles	25 days	Fri 26/3/20	Mon 26/4/13	Fri 26/3/20	Mon 26/4/13	Sat 26/4/4	Tue 26/4/28	15 days	0	150FS-17 days
152	Pedestrian & Vehicular Crossing no. 4	28 days	Sat 26/3/28	Fri 26/4/24	Sat 26/3/28	Fri 26/4/24	Tue 26/9/8	Mon 26/10/5	164 days	4	151FS-17 days
153	Protection to ex. Dongjiang Water Main	10 days	Sat 26/3/28	Mon 26/4/6	Sat 26/3/28	Mon 26/4/6	Sun 26/4/12	Tue 26/4/21	15 days	0	151FS-17 days
154	**LFT11 CH.A554.00~CH.A700.00**	**92 days**	**Tue 26/4/7**	**Tue 26/7/7**	**Tue 26/4/7**	**Tue 26/7/7**	**Wed 26/4/22**	**Wed 26/7/22**	**15 days**		
155	Temp. Drainage Diversion / Sheetpiling	30 days	Tue 26/4/7	Wed 26/5/6	Tue 26/4/7	Wed 26/5/6	Wed 26/4/22	Thu 26/5/21	15 days	1	153
156	Excavation and Lateral Support	30 days	Sun 26/4/19	Mon 26/5/18	Sun 26/4/19	Mon 26/5/18	Mon 26/5/4	Tue 26/6/2	15 days	1	155FS-18 days
157	**Ground and Edge Beams**	**40 days**	**Wed 26/4/29**	**Sun 26/6/7**	**Wed 26/4/29**	**Sun 26/6/7**	**Thu 26/5/14**	**Mon 26/6/22**	**15 days**		
158	Install precast portion (ground beam)	28 days	Wed 26/4/29	Tue 26/5/26	Wed 26/4/29	Tue 26/5/26	Thu 26/5/14	Wed 26/6/10	15 days	0	156FS-20 days
159	Rebar Fixing	25 days	Wed 26/5/6	Sat 26/5/30	Wed 26/5/6	Sat 26/5/30	Thu 26/5/21	Sun 26/6/14	15 days	1	158FS-21 days
160	Formwork Erection and Cast-in items	25 days	Thu 26/5/14	Sun 26/6/7	Thu 26/5/14	Sun 26/6/7	Fri 26/5/29	Mon 26/6/22	15 days	1	159FS-17 days
161	Concreting	1 day	Fri 26/5/22	Fri 26/5/22	Fri 26/5/22	Fri 26/5/22	Sat 26/6/6	Sat 26/6/6	15 days	0	160FS-17 days
162	**Walls**	**33 days**	**Sat 26/5/23**	**Wed 26/6/24**	**Sat 26/5/23**	**Wed 26/6/24**	**Sun 26/6/7**	**Thu 26/7/9**	**15 days**		
163	Rebar Fixing	25 days	Sat 26/5/23	Tue 26/6/16	Sat 26/5/23	Tue 26/6/16	Sun 26/6/7	Wed 26/7/1	15 days	1	161
164	Formwork Erection and Cast-in items	25 days	Sun 26/5/31	Wed 26/6/24	Sun 26/5/31	Wed 26/6/24	Mon 26/6/15	Thu 26/7/9	15 days	1	163FS-17 days
165	Concreting	1 day	Mon 26/6/8	Mon 26/6/8	Mon 26/6/8	Mon 26/6/8	Tue 26/6/23	Tue 26/6/23	15 days	0	164FS-17 days
166	Backfilling and Compaction	25 days	Tue 26/6/9	Fri 26/7/3	Tue 26/6/9	Fri 26/7/3	Wed 26/6/24	Sat 26/7/18	15 days	0	165
167	Removal of Sheetpiles	25 days	Sat 26/6/13	Tue 26/7/7	Sat 26/6/13	Tue 26/7/7	Sun 26/6/28	Wed 26/7/22	15 days	0	166FS-21 days
168	**LFT12 CH.A700.00~CH.A818.86**	**92 days**	**Wed 26/6/17**	**Wed 26/9/16**	**Wed 26/6/17**	**Wed 26/9/16**	**Thu 26/7/2**	**Thu 26/10/1**	**15 days**		
169	Temp. Drainage Diversion / Sheetpiling	25 days	Wed 26/6/17	Sat 26/7/11	Wed 26/6/17	Sat 26/7/11	Thu 26/7/2	Sun 26/7/26	15 days	1	167FS-21 days,
170	Excavation and Lateral Support	25 days	Sat 26/6/27	Tue 26/7/21	Sat 26/6/27	Tue 26/7/21	Sun 26/7/12	Wed 26/8/5	15 days	1	169FS-15 days
171	**Ground and Edge Beams**	**40 days**	**Sun 26/7/5**	**Thu 26/8/13**	**Sun 26/7/5**	**Thu 26/8/13**	**Mon 26/7/20**	**Fri 26/8/28**	**15 days**		
172	Install precast portion (ground beam)	28 days	Sun 26/7/5	Sat 26/8/1	Sun 26/7/5	Sat 26/8/1	Mon 26/7/20	Sun 26/8/16	15 days	0	170FS-17 days
173	Rebar Fixing	25 days	Sun 26/7/12	Wed 26/8/5	Sun 26/7/12	Wed 26/8/5	Mon 26/7/27	Thu 26/8/20	15 days	1	172FS-21 days
174	Formwork Erection and Cast-in items	25 days	Mon 26/7/20	Thu 26/8/13	Mon 26/7/20	Thu 26/8/13	Tue 26/8/4	Fri 26/8/28	15 days	1	173FS-17 days
175	Concreting	1 day	Tue 26/7/28	Tue 26/7/28	Tue 26/7/28	Tue 26/7/28	Wed 26/8/12	Wed 26/8/12	15 days	0	174FS-17 days
176	**Walls**	**33 days**	**Wed 26/7/29**	**Sun 26/8/30**	**Wed 26/7/29**	**Sun 26/8/30**	**Thu 26/8/13**	**Mon 26/9/14**	**15 days**		
177	Rebar Fixing	25 days	Wed 26/7/29	Sat 26/8/22	Wed 26/7/29	Sat 26/8/22	Thu 26/8/13	Sun 26/9/6	15 days	1	175
178	Formwork Erection and Cast-in items	25 days	Thu 26/8/6	Sun 26/8/30	Thu 26/8/6	Sun 26/8/30	Fri 26/8/21	Mon 26/9/14	15 days	1	177FS-17 days
179	Concreting	1 day	Fri 26/8/14	Fri 26/8/14	Fri 26/8/14	Fri 26/8/14	Sat 26/8/29	Sat 26/8/29	15 days	0	178FS-17 days
180	Backfilling and Compaction	25 days	Sat 26/8/15	Tue 26/9/8	Sat 26/8/15	Tue 26/9/8	Sun 26/8/30	Wed 26/9/23	15 days	0	179
181	Removal of Sheetpiles	25 days	Sun 26/8/23	Wed 26/9/16	Sun 26/8/23	Wed 26/9/16	Mon 26/9/7	Thu 26/10/1	15 days	0	180FS-17 days
182	Relocate Septic Tank & Soakaway Pit	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	4	181FS-17 days
183	Animal Escape Ramp	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	0	182FS-21 days
184	U-channels	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	0	182FS-21 days
185	Facing stone	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	0	182FS-21 days
186	ABWF works	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	0	182FS-21 days
187	Bedding works	21 days	Mon 26/8/31	Sun 26/9/20	Mon 26/8/31	Sun 26/9/20	Tue 26/9/15	Mon 26/10/5	15 days	0	182FS-21 days
188											
189	**LFT04 CH.B51.00~CH.B149.77**	**87 days**	**Thu 25/1/2**	**Sat 25/3/29**	**Thu 25/1/2**	**Sat 25/3/29**	**Thu 26/4/30**	**Sat 26/7/25**	**483 days**		
190	Temp. Drainage Diversion / Sheetpiling	25 days	Thu 25/1/2	Sun 25/1/26	Thu 25/1/2	Sun 25/1/26	Thu 26/4/30	Sun 26/5/24	483 days	0	20
191	Excavation and Lateral Support	25 days	Sun 25/1/12	Wed 25/2/5	Sun 25/1/12	Wed 25/2/5	Sun 26/5/10	Wed 26/6/3	483 days	0	190FS-15 days
192	**Ground and Edge Beams**	**33 days**	**Mon 25/1/20**	**Fri 25/2/21**	**Mon 25/1/20**	**Fri 25/2/21**	**Mon 26/5/18**	**Fri 26/6/19**	**483 days**		
193	Rebar Fixing	25 days	Mon 25/1/20	Thu 25/2/13	Mon 25/1/20	Thu 25/2/13	Mon 26/5/18	Thu 26/6/11	483 days	0	191FS-17 days
194	Formwork Erection and Cast-in items	25 days	Tue 25/1/28	Fri 25/2/21	Tue 25/1/28	Fri 25/2/21	Tue 26/5/26	Fri 26/6/19	483 days	0	193FS-17 days
195	Concreting	1 day	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	Fri 26/6/5	Fri 26/6/5	483 days	0	194FS-15 days
196	**Walls**	**33 days**	**Sat 25/2/8**	**Wed 25/3/12**	**Sat 25/2/8**	**Wed 25/3/12**	**Sat 26/6/6**	**Wed 26/7/8**	**483 days**		
197	Rebar Fixing	25 days	Sat 25/2/8	Tue 25/3/4	Sat 25/2/8	Tue 25/3/4	Sat 26/6/6	Tue 26/6/30	483 days	0	195
198	Formwork Erection and Cast-in items	25 days	Sun 25/2/16	Wed 25/3/12	Sun 25/2/16	Wed 25/3/12	Sun 26/6/14	Wed 26/7/8	483 days	0	197FS-17 days
199	Concreting	1 day	Mon 25/2/24	Mon 25/2/24	Mon 25/2/24	Mon 25/2/24	Mon 26/6/22	Mon 26/6/22	483 days	0	198FS-17 days
200	Backfilling and Compaction	25 days	Tue 25/2/25	Fri 25/3/21	Tue 25/2/25	Fri 25/3/21	Tue 26/6/23	Fri 26/7/17	483 days	0	199
201	Removal of Sheetpiles	25 days	Wed 25/3/5	Sat 25/3/29	Wed 25/3/5	Sat 25/3/29	Wed 26/7/1	Sat 26/7/25	483 days	0	200FS-17 days



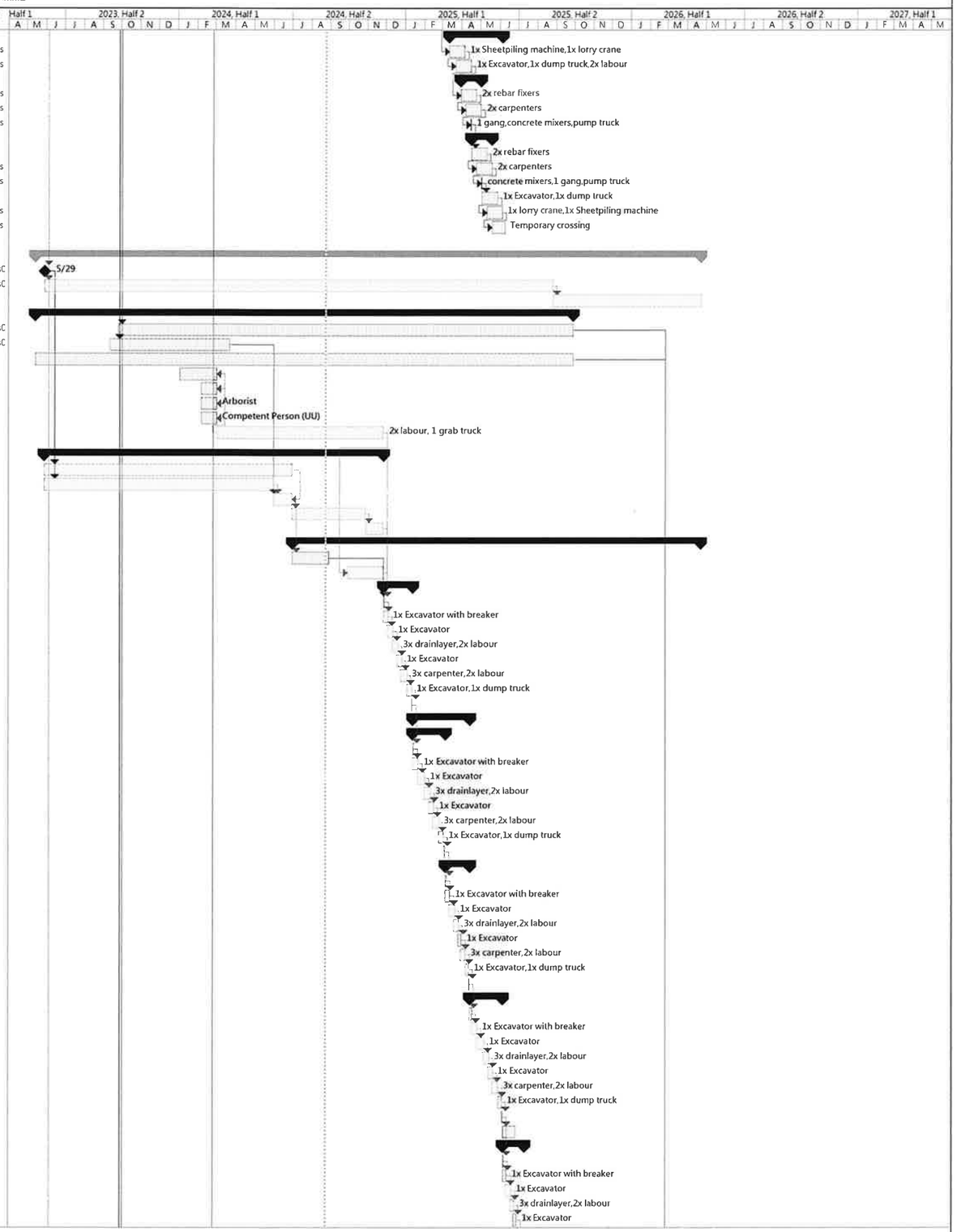
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
202	**LFT03 CH.B0.00~CH.B51.00 (PC3)**	**85 days**	**Thu 25/3/13**	**Thu 25/6/5**	**Thu 25/3/13**	**Thu 25/6/5**	**Thu 26/7/9**	**Thu 26/10/1**	**483 days**		
203	Temp. Drainage Diversion / Sheetpiling	25 days	Thu 25/3/13	Sun 25/4/6	Thu 25/3/13	Sun 25/4/6	Thu 26/7/9	Sun 26/8/2	483 days	1	201FS-17 days
204	Excavation and Lateral Support	25 days	Sun 25/3/23	Wed 25/4/16	Sun 25/3/23	Wed 25/4/16	Sun 26/7/19	Wed 26/8/12	483 days	1	203FS-15 days
205	**Ground and Edge Beams**	**33 days**	**Mon 25/3/31**	**Fri 25/5/2**	**Mon 25/3/31**	**Fri 25/5/2**	**Mon 26/7/27**	**Fri 26/8/28**	**483 days**		
206	Rebar Fixing	25 days	Mon 25/3/31	Thu 25/4/24	Mon 25/3/31	Thu 25/4/24	Mon 26/7/27	Thu 26/8/20	483 days	1	204FS-17 days
207	Formwork Erection and Cast-in items	25 days	Tue 25/4/8	Fri 25/5/2	Tue 25/4/8	Fri 25/5/2	Tue 26/8/4	Fri 26/8/28	483 days	1	206FS-17 days
208	Concreting	1 day	Wed 25/4/16	Wed 25/4/16	Wed 25/4/16	Wed 25/4/16	Wed 26/8/12	Wed 26/8/12	483 days	0	207FS-17 days
209	**Walls**	**33 days**	**Thu 25/4/17**	**Mon 25/5/19**	**Thu 25/4/17**	**Mon 25/5/19**	**Thu 26/8/13**	**Mon 26/9/14**	**483 days**		
210	Rebar Fixing	25 days	Thu 25/4/17	Sun 25/5/11	Thu 25/4/17	Sun 25/5/11	Thu 26/8/13	Sun 26/9/6	483 days	1	208
211	Formwork Erection and Cast-in items	25 days	Fri 25/4/25	Mon 25/5/19	Fri 25/4/25	Mon 25/5/19	Fri 26/8/21	Mon 26/9/14	483 days	1	210FS-17 days
212	Concreting	1 day	Sat 25/5/3	Sat 25/5/3	Sat 25/5/3	Sat 25/5/3	Sat 26/8/29	Sat 26/8/29	483 days	0	211FS-17 days
213	Backfilling and Compaction	25 days	Sun 25/5/4	Wed 25/5/28	Sun 25/5/4	Wed 25/5/28	Sun 26/8/30	Wed 26/9/23	483 days	0	212
214	Removal of Sheetpiles	25 days	Mon 25/5/12	Thu 25/6/5	Mon 25/5/12	Thu 25/6/5	Mon 26/9/7	Thu 26/10/1	483 days	0	213FS-17 days
215	Pedestrian Crossing no. 3	21 days	Tue 25/5/20	Mon 25/6/9	Tue 25/5/20	Mon 25/6/9	Tue 26/9/15	Mon 26/10/5	483 days	3	214FS-17 days
108											
109	Section VI	1075 days	Mon 23/5/15	Thu 26/4/23	Mon 23/5/15	Thu 26/4/23	Mon 23/5/29	Thu 26/4/23	0 days		
2	access date of Portion C3	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	0 days	0	\\WingTatNasC
3	section VI (Lin Fa Tei - Kam Sheung Road)	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days	0	\\WingTatNasC
4	Planned Completion Day	240 days	Wed 25/8/27	Thu 26/4/23	Wed 25/8/27	Thu 26/4/23	Wed 25/8/27	Thu 26/4/23	0 days	0	3
5	**Site Establishment**	**868 days**	**Mon 23/5/15**	**Sun 25/9/28**	**Mon 23/5/15**	**Sun 25/9/28**	**Thu 23/10/12**	**Thu 26/4/23**	**150 days**		
6	Prepare and Accept Temp. Works Design and Method Statement [A]	734 days	Tue 23/9/26	Sun 25/9/28	Tue 23/9/26	Sun 25/9/28	Fri 24/2/23	Wed 26/2/25	150 days	0	\\WingTatNasC
7	Public Liaison and Negotiation with Village Rep. [A]	194 days	Tue 23/9/12	Sat 24/3/23	Tue 23/9/12	Sat 24/3/23	Tue 23/11/21	Sat 24/6/1	70 days	0	\\WingTatNasC
8	Initial Survey [A]	868 days	Mon 23/5/15	Sun 25/9/28	Mon 23/5/15	Sun 25/9/28	Thu 23/10/12	Wed 26/2/25	150 days	0	
10	Initial Safety & Environmental measures	60 days	Thu 24/1/4	Mon 24/3/4	Thu 24/1/4	Mon 24/3/4	Mon 26/2/23	Thu 26/4/23	781 days	0	15SF
12	Setup of instrumentation and monitoring	25 days	Thu 24/2/8	Mon 24/3/4	Thu 24/2/8	Mon 24/3/4	Mon 26/3/30	Thu 26/4/23	781 days	0	15SF
13	Tree Survey	25 days	Thu 24/2/8	Mon 24/3/4	Thu 24/2/8	Mon 24/3/4	Mon 26/3/30	Thu 26/4/23	781 days	0	15SF
14	UU detection	25 days	Thu 24/2/8	Mon 24/3/4	Thu 24/2/8	Mon 24/3/4	Mon 26/3/30	Thu 26/4/23	781 days	0	15SF
15	[NCExxx] [PMI-030] Difficulty/infeasibility for construction of 1650mm dia. pipe at Kam Sheung Road (impact to be ascertained)	270 days	Mon 24/3/4	Thu 24/11/28	Mon 24/3/4	Thu 24/11/28	Mon 24/3/4	Thu 24/11/28	0 days	0	
16	**Temporary Traffic Arrangement**	**550 days**	**Mon 23/5/29**	**Thu 24/11/28**	**Mon 23/5/29**	**Thu 24/11/28**	**Mon 23/5/29**	**Thu 24/11/28**	**0 days**		
17	Application of XP [A]	400 days	Mon 23/5/29	Mon 24/7/1	Mon 23/5/29	Mon 24/7/1	Mon 23/5/29	Mon 24/7/1	0 days	0	2FS-1 day
18	Submission of TTA and Arrange TMLG [A]	370 days	Mon 23/5/29	Sat 24/6/1	Mon 23/5/29	Sat 24/6/1	Mon 23/5/29	Sat 24/6/1	0 days	0	2FS-1 day
19	Approval of TTA [A]	30 days	Sun 24/6/2	Mon 24/7/1	Sun 24/6/2	Mon 24/7/1	Sun 24/6/2	Mon 24/7/1	0 days	0	17FF,18,7
20	[NCExxx] [PMI-030] Submission of revised TTA and Arrange TMLG	120 days	Tue 24/7/2	Tue 24/10/29	Tue 24/7/2	Tue 24/10/29	Tue 24/7/2	Tue 24/10/29	0 days	0	19
21	[NCExxx] [PMI-030] Approval of revised TTA	30 days	Wed 24/10/30	Thu 24/11/28	Wed 24/10/30	Thu 24/11/28	Wed 24/10/30	Thu 24/11/28	0 days	0	20
22	**Drain Laying Works**	**661 days**	**Tue 24/7/2**	**Thu 26/4/23**	**Tue 24/7/2**	**Thu 26/4/23**	**Mon 24/9/30**	**Thu 26/4/23**	**0 days**		
23	Inspection Pit	60 days	Tue 24/7/2	Fri 24/8/30	Tue 24/7/2	Fri 24/8/30	Mon 24/9/30	Thu 24/11/28	90 days	0	19
24	[NCExxx] [PMI-030] Procurement, sampling and testing of drain pipes	60 days	Mon 24/9/30	Thu 24/11/28	Mon 24/9/30	Thu 24/11/28	Mon 24/9/30	Thu 24/11/28	0 days	0	15FS-60 days
25	**LFT.D3a~LFT.D4,1650PC,B,L=22.88,D=3.418**	**47 days**	**Fri 24/11/29**	**Tue 25/1/14**	**Fri 24/11/29**	**Tue 25/1/14**	**Fri 24/11/29**	**Tue 25/1/14**	**0 days**		
26	TTA Implementation	2 days	Fri 24/11/29	Sat 24/11/30	Fri 24/11/29	Sat 24/11/30	Fri 24/11/29	Sat 24/11/30	0 days	0	15,21,23,24
27	Breaking Ground	8 days	Fri 24/11/29	Fri 24/12/6	Fri 24/11/29	Fri 24/12/6	Fri 24/11/29	Fri 24/12/6	0 days	0	26FS-2 days
28	Excavation and Lateral Support	10 days	Thu 24/12/5	Sat 24/12/14	Thu 24/12/5	Sat 24/12/14	Thu 24/12/5	Sat 24/12/14	0 days	2	27FS-2 days
29	Drain Laying	10 days	Fri 24/12/13	Sun 24/12/22	Fri 24/12/13	Sun 24/12/22	Fri 24/12/13	Sun 24/12/22	0 days	2	28FS-2 days
30	Bedding and Backfilling	8 days	Sat 24/12/21	Sat 24/12/28	Sat 24/12/21	Sat 24/12/28	Sat 24/12/21	Sat 24/12/28	0 days	0	29FS-2 days
31	Manhole Construction	10 days	Fri 24/12/27	Sun 25/1/5	Fri 24/12/27	Sun 25/1/5	Fri 24/12/27	Sun 25/1/5	0 days	2	30FS-2 days
32	Reinstatement	8 days	Mon 25/1/6	Mon 25/1/13	Mon 25/1/6	Mon 25/1/13	Mon 25/1/6	Mon 25/1/13	0 days	0	31
33	TTA Removal	1 day	Tue 25/1/14	Tue 25/1/14	Tue 25/1/14	Tue 25/1/14	Tue 25/1/14	Tue 25/1/14	0 days	0	32
34	**LFT.D4~LFT.D5,1650PC,B,L=50.95,D=3.417**	**91 days**	**Wed 25/1/15**	**Tue 25/4/15**	**Wed 25/1/15**	**Tue 25/4/15**	**Wed 25/1/15**	**Tue 25/4/15**	**0 days**		
35	**Stage 1**	**52 days**	**Wed 25/1/15**	**Fri 25/3/7**	**Wed 25/1/15**	**Fri 25/3/7**	**Wed 25/1/15**	**Fri 25/3/7**	**0 days**		
36	TTA Implementation	2 days	Wed 25/1/15	Thu 25/1/16	Wed 25/1/15	Thu 25/1/16	Wed 25/1/15	Thu 25/1/16	0 days	0	33
37	Breaking Ground	10 days	Wed 25/1/15	Fri 25/1/24	Wed 25/1/15	Fri 25/1/24	Wed 25/1/15	Fri 25/1/24	0 days	2	36FS-2 days
38	Excavation and Lateral Support	12 days	Thu 25/1/23	Mon 25/2/3	Thu 25/1/23	Mon 25/2/3	Thu 25/1/23	Mon 25/2/3	0 days	2	37FS-2 days
39	Drain Laying	10 days	Sun 25/2/2	Tue 25/2/11	Sun 25/2/2	Tue 25/2/11	Sun 25/2/2	Tue 25/2/11	0 days	2	38FS-2 days
40	Bedding and Backfilling	8 days	Mon 25/2/10	Mon 25/2/17	Mon 25/2/10	Mon 25/2/17	Mon 25/2/10	Mon 25/2/17	0 days	0	39FS-2 days
41	Manhole Construction	10 days	Sun 25/2/16	Tue 25/2/25	Sun 25/2/16	Tue 25/2/25	Sun 25/2/16	Tue 25/2/25	0 days	2	40FS-2 days
42	Reinstatement	8 days	Wed 25/2/26	Wed 25/3/5	Wed 25/2/26	Wed 25/3/5	Wed 25/2/26	Wed 25/3/5	0 days	0	41
43	TTA Removal	2 days	Thu 25/3/6	Fri 25/3/7	Thu 25/3/6	Fri 25/3/7	Thu 25/3/6	Fri 25/3/7	0 days	0	42
44	**Stage 2**	**39 days**	**Sat 25/3/8**	**Tue 25/4/15**	**Sat 25/3/8**	**Tue 25/4/15**	**Sat 25/3/8**	**Tue 25/4/15**	**0 days**		
45	TTA Implementation	2 days	Sat 25/3/8	Sun 25/3/9	Sat 25/3/8	Sun 25/3/9	Sat 25/3/8	Sun 25/3/9	0 days	0	43
46	Breaking Ground	8 days	Sat 25/3/8	Sat 25/3/15	Sat 25/3/8	Sat 25/3/15	Sat 25/3/8	Sat 25/3/15	0 days	2	45FS-2 days
47	Excavation and Lateral Support	10 days	Fri 25/3/14	Sun 25/3/23	Fri 25/3/14	Sun 25/3/23	Fri 25/3/14	Sun 25/3/23	0 days	2	46FS-2 days
48	Drain Laying	8 days	Sat 25/3/22	Sat 25/3/29	Sat 25/3/22	Sat 25/3/29	Sat 25/3/22	Sat 25/3/29	0 days	2	47FS-2 days
49	Bedding and Backfilling	6 days	Fri 25/3/28	Wed 25/4/2	Fri 25/3/28	Wed 25/4/2	Fri 25/3/28	Wed 25/4/2	0 days	0	48FS-2 days
50	Manhole Construction	8 days	Tue 25/4/1	Tue 25/4/8	Tue 25/4/1	Tue 25/4/8	Tue 25/4/1	Tue 25/4/8	0 days	2	49FS-2 days
51	Reinstatement	6 days	Wed 25/4/9	Mon 25/4/14	Wed 25/4/9	Mon 25/4/14	Wed 25/4/9	Mon 25/4/14	0 days	0	50
52	TTA Removal	1 day	Tue 25/4/15	Tue 25/4/15	Tue 25/4/15	Tue 25/4/15	Tue 25/4/15	Tue 25/4/15	0 days	0	51
53	**LFT.D5~NKT Channel,1650PC,B,L=14.5,D=3.54**	**52 days**	**Wed 25/4/16**	**Fri 25/6/6**	**Wed 25/4/16**	**Fri 25/6/6**	**Wed 25/4/16**	**Fri 25/6/6**	**0 days**		
54	TTA Implementation (trial run)	4 days	Wed 25/4/16	Sat 25/4/19	Wed 25/4/16	Sat 25/4/19	Wed 25/4/16	Sat 25/4/19	0 days	0	52
55	Breaking Ground	10 days	Fri 25/4/18	Sun 25/4/27	Fri 25/4/18	Sun 25/4/27	Fri 25/4/18	Sun 25/4/27	0 days	0	54FS-2 days
56	Excavation and Lateral Support	13 days	Sat 25/4/26	Thu 25/5/8	Sat 25/4/26	Thu 25/5/8	Sat 25/4/26	Thu 25/5/8	0 days	1	55FS-2 days
57	Drain Laying	10 days	Wed 25/5/7	Fri 25/5/16	Wed 25/5/7	Fri 25/5/16	Wed 25/5/7	Fri 25/5/16	0 days	0	56FS-2 days
58	Bedding and Backfilling	8 days	Thu 25/5/15	Thu 25/5/22	Thu 25/5/15	Thu 25/5/22	Thu 25/5/15	Thu 25/5/22	0 days	0	57FS-2 days
59	Manhole Construction	10 days	Wed 25/5/21	Fri 25/5/30	Wed 25/5/21	Fri 25/5/30	Wed 25/5/21	Fri 25/5/30	0 days	0	58FS-2 days
60	Reinstatement	6 days	Sat 25/5/31	Thu 25/6/5	Sat 25/5/31	Thu 25/6/5	Sat 25/5/31	Thu 25/6/5	0 days	0	59
61	TTA Removal	1 day	Fri 25/6/6	Fri 25/6/6	Fri 25/6/6	Fri 25/6/6	Fri 25/6/6	Fri 25/6/6	0 days	0	60
62	Proposed flap valve	21 days	Sat 25/6/7	Fri 25/6/27	Sat 25/6/7	Fri 25/6/27	Fri 26/4/3	Thu 26/4/23	300 days	0	61
63	**LFT.D3~LFT.D3a,1650PC,B,L=13.9,D=3.418**	**35 days**	**Sat 25/6/7**	**Fri 25/7/11**	**Sat 25/6/7**	**Fri 25/7/11**	**Sat 25/6/7**	**Fri 25/7/11**	**0 days**		
64	TTA Implementation	2 days	Sat 25/6/7	Sun 25/6/8	Sat 25/6/7	Sun 25/6/8	Sat 25/6/7	Sun 25/6/8	0 days	0	61
65	Breaking Ground	7 days	Sat 25/6/7	Fri 25/6/13	Sat 25/6/7	Fri 25/6/13	Sat 25/6/7	Fri 25/6/13	0 days	0	64FS-2 days
66	Excavation and Lateral Support	9 days	Thu 25/6/12	Fri 25/6/20	Thu 25/6/12	Fri 25/6/20	Thu 25/6/12	Fri 25/6/20	0 days	1	65FS-2 days
67	Drain Laying	7 days	Thu 25/6/19	Wed 25/6/25	Thu 25/6/19	Wed 25/6/25	Thu 25/6/19	Wed 25/6/25	0 days	0	66FS-2 days
68	Bedding and Backfilling	6 days	Tue 25/6/24	Sun 25/6/29	Tue 25/6/24	Sun 25/6/29	Tue 25/6/24	Sun 25/6/29	0 days	0	67FS-2 days



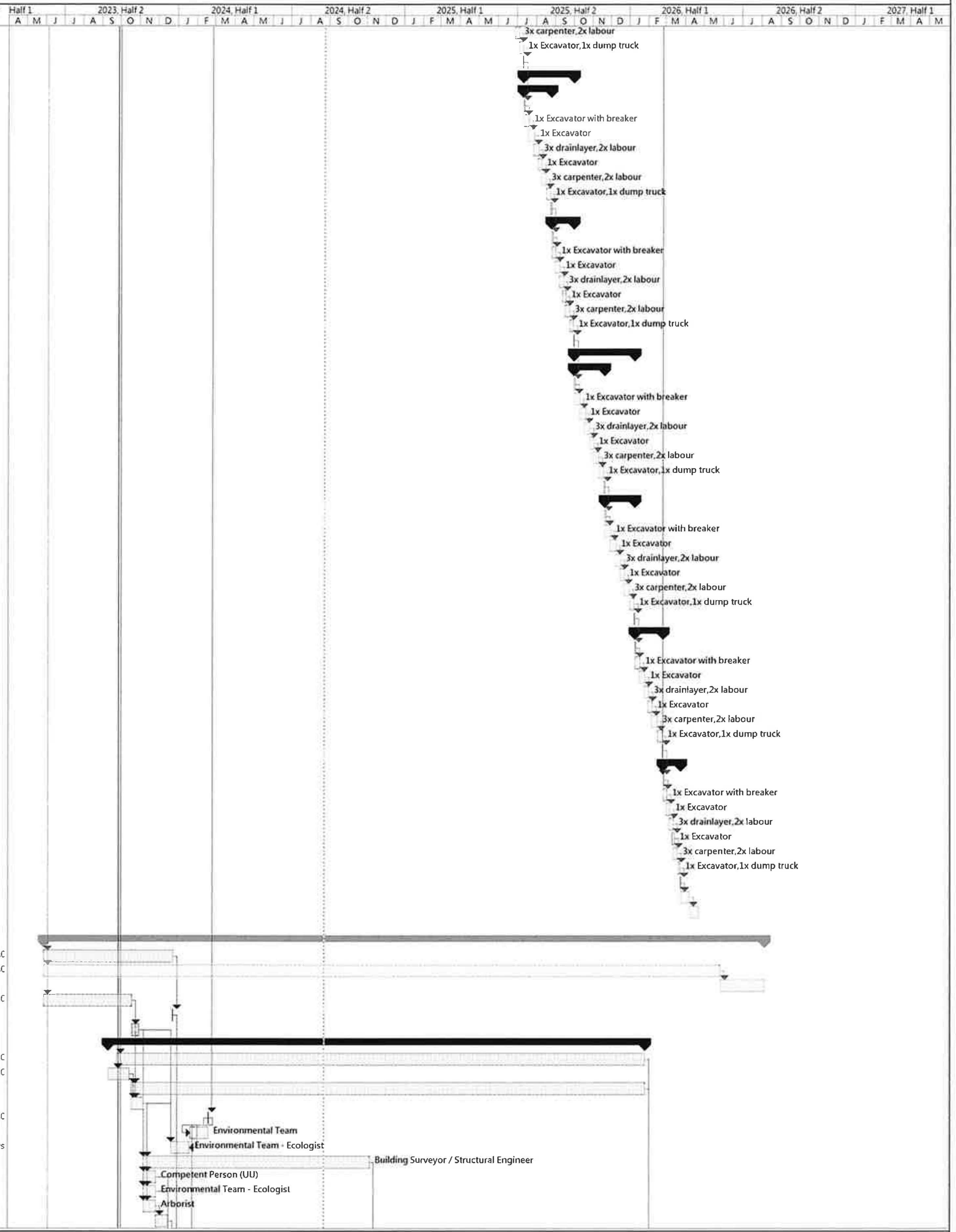
Revision.: 11.0 Date: 31 July 2024

Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
69	Manhole Construction	7 days	Sat 25/6/28	Fri 25/7/4	Sat 25/6/28	Fri 25/7/4	Sat 25/6/28	Fri 25/7/4	0 days	0	68FS-2 days
70	Reinstatement	6 days	Sat 25/7/5	Thu 25/7/10	Sat 25/7/5	Thu 25/7/10	Sat 25/7/5	Thu 25/7/10	0 days	0	69
71	TTA Removal	1 day	Fri 25/7/11	Fri 25/7/11	Fri 25/7/11	Fri 25/7/11	Fri 25/7/11	Fri 25/7/11	0 days	0	70
72	**LFT.D2~LFT.D3,1650PC,B,L=39,D=3.34**	**82 days**	**Sat 25/7/12**	**Wed 25/10/1**	**Sat 25/7/12**	**Wed 25/10/1**	**Sat 25/7/12**	**Wed 25/10/1**	**0 days**		
73	**Stage 1**	**46 days**	**Sat 25/7/12**	**Tue 25/8/26**	**Sat 25/7/12**	**Tue 25/8/26**	**Sat 25/7/12**	**Tue 25/8/26**	**0 days**		
74	TTA Implementation	2 days	Sat 25/7/12	Sun 25/7/13	Sat 25/7/12	Sun 25/7/13	Sat 25/7/12	Sun 25/7/13	0 days	0	71
75	Breaking Ground	9 days	Sat 25/7/12	Sun 25/7/20	Sat 25/7/12	Sun 25/7/20	Sat 25/7/12	Sun 25/7/20	0 days	2	74FS-2 days
76	Excavation and Lateral Support	11 days	Sat 25/7/19	Tue 25/7/29	Sat 25/7/19	Tue 25/7/29	Sat 25/7/19	Tue 25/7/29	0 days	2	75FS-2 days
77	Drain Laying	9 days	Mon 25/7/28	Tue 25/8/5	Mon 25/7/28	Tue 25/8/5	Mon 25/7/28	Tue 25/8/5	0 days	2	76FS-2 days
78	Bedding and Backfilling	7 days	Mon 25/8/4	Sun 25/8/10	Mon 25/8/4	Sun 25/8/10	Mon 25/8/4	Sun 25/8/10	0 days	0	77FS-2 days
79	Manhole Construction	9 days	Sat 25/8/9	Sun 25/8/17	Sat 25/8/9	Sun 25/8/17	Sat 25/8/9	Sun 25/8/17	0 days	2	78FS-2 days
80	Reinstatement	7 days	Mon 25/8/18	Sun 25/8/24	Mon 25/8/18	Sun 25/8/24	Mon 25/8/18	Sun 25/8/24	0 days	0	79
81	TTA Removal	2 days	Mon 25/8/25	Tue 25/8/26	Mon 25/8/25	Tue 25/8/26	Mon 25/8/25	Tue 25/8/26	0 days	0	80
82	**Stage 2**	**36 days**	**Wed 25/8/27**	**Wed 25/10/1**	**Wed 25/8/27**	**Wed 25/10/1**	**Wed 25/8/27**	**Wed 25/10/1**	**0 days**		
83	TTA Implementation	2 days	Wed 25/8/27	Thu 25/8/28	Wed 25/8/27	Thu 25/8/28	Wed 25/8/27	Thu 25/8/28	0 days	0	81
84	Breaking Ground	7 days	Wed 25/8/27	Tue 25/9/2	Wed 25/8/27	Tue 25/9/2	Wed 25/8/27	Tue 25/9/2	0 days	0	83FS-2 days
85	Excavation and Lateral Support	9 days	Mon 25/9/1	Tue 25/9/9	Mon 25/9/1	Tue 25/9/9	Mon 25/9/1	Tue 25/9/9	0 days	1	84FS-2 days
86	Drain Laying	7 days	Mon 25/9/8	Sun 25/9/14	Mon 25/9/8	Sun 25/9/14	Mon 25/9/8	Sun 25/9/14	0 days	1	85FS-2 days
87	Bedding and Backfilling	6 days	Sat 25/9/13	Thu 25/9/18	Sat 25/9/13	Thu 25/9/18	Sat 25/9/13	Thu 25/9/18	0 days	0	86FS-2 days
88	Manhole Construction	8 days	Wed 25/9/17	Wed 25/9/24	Wed 25/9/17	Wed 25/9/24	Wed 25/9/17	Wed 25/9/24	0 days	1	87FS-2 days
89	Reinstatement	6 days	Thu 25/9/25	Tue 25/9/30	Thu 25/9/25	Tue 25/9/30	Thu 25/9/25	Tue 25/9/30	0 days	0	88
90	TTA Removal	1 day	Wed 25/10/1	Wed 25/10/1	Wed 25/10/1	Wed 25/10/1	Wed 25/10/1	Wed 25/10/1	0 days	0	89
91	**LFT.D1b~LFT.D2,1650PC,B,L=45.56,D=3.34**	**101 days**	**Thu 25/10/2**	**Sat 26/1/10**	**Thu 25/10/2**	**Sat 26/1/10**	**Thu 25/10/2**	**Sat 26/1/10**	**0 days**		
92	**Stage 1**	**51 days**	**Thu 25/10/2**	**Fri 25/11/21**	**Thu 25/10/2**	**Fri 25/11/21**	**Thu 25/10/2**	**Fri 25/11/21**	**0 days**		
93	TTA Implementation	2 days	Thu 25/10/2	Fri 25/10/3	Thu 25/10/2	Fri 25/10/3	Thu 25/10/2	Fri 25/10/3	0 days	0	90
94	Breaking Ground	10 days	Thu 25/10/2	Sat 25/10/11	Thu 25/10/2	Sat 25/10/11	Thu 25/10/2	Sat 25/10/11	0 days	2	93FS-2 days
95	Excavation and Lateral Support	11 days	Fri 25/10/10	Mon 25/10/20	Fri 25/10/10	Mon 25/10/20	Fri 25/10/10	Mon 25/10/20	0 days	2	94FS-2 days
96	Drain Laying	10 days	Sun 25/10/19	Tue 25/10/28	Sun 25/10/19	Tue 25/10/28	Sun 25/10/19	Tue 25/10/28	0 days	2	95FS-2 days
97	Bedding and Backfilling	8 days	Mon 25/10/27	Mon 25/11/3	Mon 25/10/27	Mon 25/11/3	Mon 25/10/27	Mon 25/11/3	0 days	0	96FS-2 days
98	Manhole Construction	10 days	Sun 25/11/2	Tue 25/11/11	Sun 25/11/2	Tue 25/11/11	Sun 25/11/2	Tue 25/11/11	0 days	2	97FS-2 days
99	Reinstatement	8 days	Wed 25/11/12	Wed 25/11/19	Wed 25/11/12	Wed 25/11/19	Wed 25/11/12	Wed 25/11/19	0 days	0	98
100	TTA Removal	2 days	Thu 25/11/20	Fri 25/11/21	Thu 25/11/20	Fri 25/11/21	Thu 25/11/20	Fri 25/11/21	0 days	0	99
101	**Stage 2**	**50 days**	**Sat 25/11/22**	**Sat 26/1/10**	**Sat 25/11/22**	**Sat 26/1/10**	**Sat 25/11/22**	**Sat 26/1/10**	**0 days**		
102	TTA Implementation	2 days	Sat 25/11/22	Sun 25/11/23	Sat 25/11/22	Sun 25/11/23	Sat 25/11/22	Sun 25/11/23	0 days	0	100
103	Breaking Ground	10 days	Sat 25/11/22	Mon 25/12/1	Sat 25/11/22	Mon 25/12/1	Sat 25/11/22	Mon 25/12/1	0 days	2	102FS-2 days
104	Excavation and Lateral Support	11 days	Sun 25/11/30	Wed 25/12/10	Sun 25/11/30	Wed 25/12/10	Sun 25/11/30	Wed 25/12/10	0 days	2	103FS-2 days
105	Drain Laying	10 days	Tue 25/12/9	Thu 25/12/18	Tue 25/12/9	Thu 25/12/18	Tue 25/12/9	Thu 25/12/18	0 days	2	104FS-2 days
106	Bedding and Backfilling	8 days	Wed 25/12/17	Wed 25/12/24	Wed 25/12/17	Wed 25/12/24	Wed 25/12/17	Wed 25/12/24	0 days	0	105FS-2 days
107	Manhole Construction	10 days	Tue 25/12/23	Thu 26/1/1	Tue 25/12/23	Thu 26/1/1	Tue 25/12/23	Thu 26/1/1	0 days	2	106FS-2 days
108	Reinstatement	8 days	Fri 26/1/2	Fri 26/1/9	Fri 26/1/2	Fri 26/1/9	Fri 26/1/2	Fri 26/1/9	0 days	0	107
109	TTA Removal	1 day	Sat 26/1/10	Sat 26/1/10	Sat 26/1/10	Sat 26/1/10	Sat 26/1/10	Sat 26/1/10	0 days	0	108
110	**LFT.D1a~LFT.D1b,1650PC,B,L=25.59,D=3.411**	**46 days**	**Sun 26/1/11**	**Wed 26/2/25**	**Sun 26/1/11**	**Wed 26/2/25**	**Sun 26/1/11**	**Wed 26/2/25**	**0 days**		
111	TTA Implementation	2 days	Sun 26/1/11	Mon 26/1/12	Sun 26/1/11	Mon 26/1/12	Sun 26/1/11	Mon 26/1/12	0 days	0	109
112	Breaking Ground	9 days	Sun 26/1/11	Mon 26/1/19	Sun 26/1/11	Mon 26/1/19	Sun 26/1/11	Mon 26/1/19	0 days	0	111FS-2 days
113	Excavation and Lateral Support	10 days	Sun 26/1/18	Tue 26/1/27	Sun 26/1/18	Tue 26/1/27	Sun 26/1/18	Tue 26/1/27	0 days	2	112FS-2 days
114	Drain Laying	8 days	Mon 26/1/26	Mon 26/2/2	Mon 26/1/26	Mon 26/2/2	Mon 26/1/26	Mon 26/2/2	0 days	2	113FS-2 days
115	Bedding and Backfilling	8 days	Sun 26/2/1	Sun 26/2/8	Sun 26/2/1	Sun 26/2/8	Sun 26/2/1	Sun 26/2/8	0 days	1	114FS-2 days
116	Manhole Construction	10 days	Sat 26/2/7	Mon 26/2/16	Sat 26/2/7	Mon 26/2/16	Sat 26/2/7	Mon 26/2/16	0 days	2	115FS-2 days
117	Reinstatement	8 days	Tue 26/2/17	Tue 26/2/24	Tue 26/2/17	Tue 26/2/24	Tue 26/2/17	Tue 26/2/24	0 days	1	116
118	TTA Removal	1 day	Wed 26/2/25	Wed 26/2/25	Wed 26/2/25	Wed 26/2/25	Wed 26/2/25	Wed 26/2/25	0 days	0	117
119	**LFT.D1~LFT.D1a,1650PC,B,L=5.65,D=3.411**	**29 days**	**Thu 26/2/26**	**Thu 26/3/26**	**Thu 26/2/26**	**Thu 26/3/26**	**Thu 26/2/26**	**Thu 26/3/26**	**0 days**		
120	TTA Implementation	2 days	Thu 26/2/26	Fri 26/2/27	Thu 26/2/26	Fri 26/2/27	Thu 26/2/26	Fri 26/2/27	0 days	0	118,6,8
121	Breaking Ground	7 days	Thu 26/2/26	Wed 26/3/4	Thu 26/2/26	Wed 26/3/4	Thu 26/2/26	Wed 26/3/4	0 days	0	120FS-2 days
122	Excavation and Lateral Support	7 days	Tue 26/3/3	Mon 26/3/9	Tue 26/3/3	Mon 26/3/9	Tue 26/3/3	Mon 26/3/9	0 days	1	121FS-2 days
123	Drain Laying	7 days	Sun 26/3/8	Sat 26/3/14	Sun 26/3/8	Sat 26/3/14	Sun 26/3/8	Sat 26/3/14	0 days	1	122FS-2 days
124	Bedding and Backfilling	4 days	Fri 26/3/13	Mon 26/3/16	Fri 26/3/13	Mon 26/3/16	Fri 26/3/13	Mon 26/3/16	0 days	0	123FS-2 days
125	Manhole Construction	7 days	Sun 26/3/15	Sat 26/3/21	Sun 26/3/15	Sat 26/3/21	Sun 26/3/15	Sat 26/3/21	0 days	0	124FS-2 days
126	Reinstatement	4 days	Sun 26/3/22	Wed 26/3/25	Sun 26/3/22	Wed 26/3/25	Sun 26/3/22	Wed 26/3/25	0 days	0	125
127	TTA Removal	1 day	Thu 26/3/26	Thu 26/3/26	Thu 26/3/26	Thu 26/3/26	Thu 26/3/26	Thu 26/3/26	0 days	0	126
128	CCTV inspection and T&C	14 days	Fri 26/3/27	Thu 26/4/9	Fri 26/3/27	Thu 26/4/9	Fri 26/3/27	Thu 26/4/9	0 days	4	127
129	Final Reinstatement	14 days	Fri 26/4/10	Thu 26/4/23	Fri 26/4/10	Thu 26/4/23	Fri 26/4/10	Thu 26/4/23	0 days	4	128
110											
111	**Section IV**	**1165 days**	**Tue 23/5/30**	**Thu 26/8/6**	**Tue 23/5/30**	**Thu 26/8/6**	**Tue 23/5/30**	**Mon 26/10/5**	**0 days**		
2	access date of Portion D	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Sun 25/9/28	Sat 26/4/25	852 days	0	\\WingTatNasC
3	section IV (Ha Che)	1095 days	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	Tue 23/5/30	Thu 26/5/28	0 days	0	\\WingTatNasC
4	Planned Completion Day	70 days	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	Fri 26/5/29	Thu 26/8/6	0 days	0	3
5	Early access (portion)	144 days	Tue 23/5/30	Fri 23/10/20	Tue 23/5/30	Fri 23/10/20	Wed 23/6/14	Sat 23/11/4	15 days	0	\\WingTatNasC
6	Access to remaining STLA	1 day	Mon 23/12/25	Mon 23/12/25	Mon 23/12/25	Mon 23/12/25	Sat 26/4/25	Sat 26/4/25	852 days	0	2FS-1 day
7	Private Land Leasing	12 days	Sat 23/10/21	Wed 23/11/1	Sat 23/10/21	Wed 23/11/1	Tue 23/12/12	Sat 23/12/23	52 days	0	5
8	**Site Establishment**	**869 days**	**Tue 23/9/12**	**Tue 26/1/27**	**Tue 23/9/12**	**Tue 26/1/27**	**Sat 23/9/30**	**Thu 26/8/6**	**18 days**		
9	Prepare and Accept Temp. Works Design and Method Statement	855 days	Tue 23/9/26	Tue 26/1/27	Tue 23/9/26	Tue 26/1/27	Wed 23/10/11	Wed 26/2/11	15 days	0	\\WingTatNasC
10	Public Liaison and Negotiation with Village Rep. [A]	35 days	Tue 23/9/12	Mon 23/10/16	Tue 23/9/12	Mon 23/10/16	Sat 23/9/30	Fri 23/11/3	18 days	0	\\WingTatNasC
11	Initial Survey [A]	831 days	Fri 23/10/20	Tue 26/1/27	Fri 23/10/20	Tue 26/1/27	Sat 23/11/4	Wed 26/2/11	15 days	0	10,5FS-1 day
13	Initial Safety & Environmental measures [A]	20 days	Fri 23/10/20	Wed 23/11/8	Fri 23/10/20	Wed 23/11/8	Mon 23/12/4	Sat 23/12/23	45 days	0	10,5FS-1 day
15	EIAO Commencement of Construction [A]	1 day	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Thu 24/3/7	Thu 24/3/7	15 days	0	\\WingTatNasC
17	Environmental Baseline Monitoring [A]	29 days	Tue 24/1/23	Tue 24/2/20	Tue 24/1/23	Tue 24/2/20	Thu 26/7/9	Thu 26/8/6	898 days	0	15FS-30 days
18	Freshwater Crab Translocation Plan [A]	30 days	Sat 23/12/23	Mon 24/1/22	Sat 23/12/23	Mon 24/1/22	Wed 26/7/8	Thu 26/8/6	928 days	0	7,15SF-30 days
19	Condition Survey & Str. Assessment (Shui Kan Shek, Fu Hing Garden, Twin 150(	365 days	Thu 23/11/9	Thu 24/11/7	Thu 23/11/9	Thu 24/11/7	Sun 25/6/8	Sun 26/6/7	577 days	0	7,13
20	UU detection [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Sat 24/1/13	Thu 24/2/1	65 days	0	7,13
21	Vegetation Survey [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Sat 24/1/13	Thu 24/2/1	65 days	0	7,13
22	Tree Survey and Felling [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Sun 23/12/24	Fri 24/1/12	45 days	0	7,13
23	Setup of instrumentation and monitoring [A]	20 days	Wed 23/11/29	Mon 23/12/18	Wed 23/11/29	Mon 23/12/18	Sat 24/1/13	Thu 24/2/1	45 days	0	22



Revision.: 11.0 Date: 31 July 2024

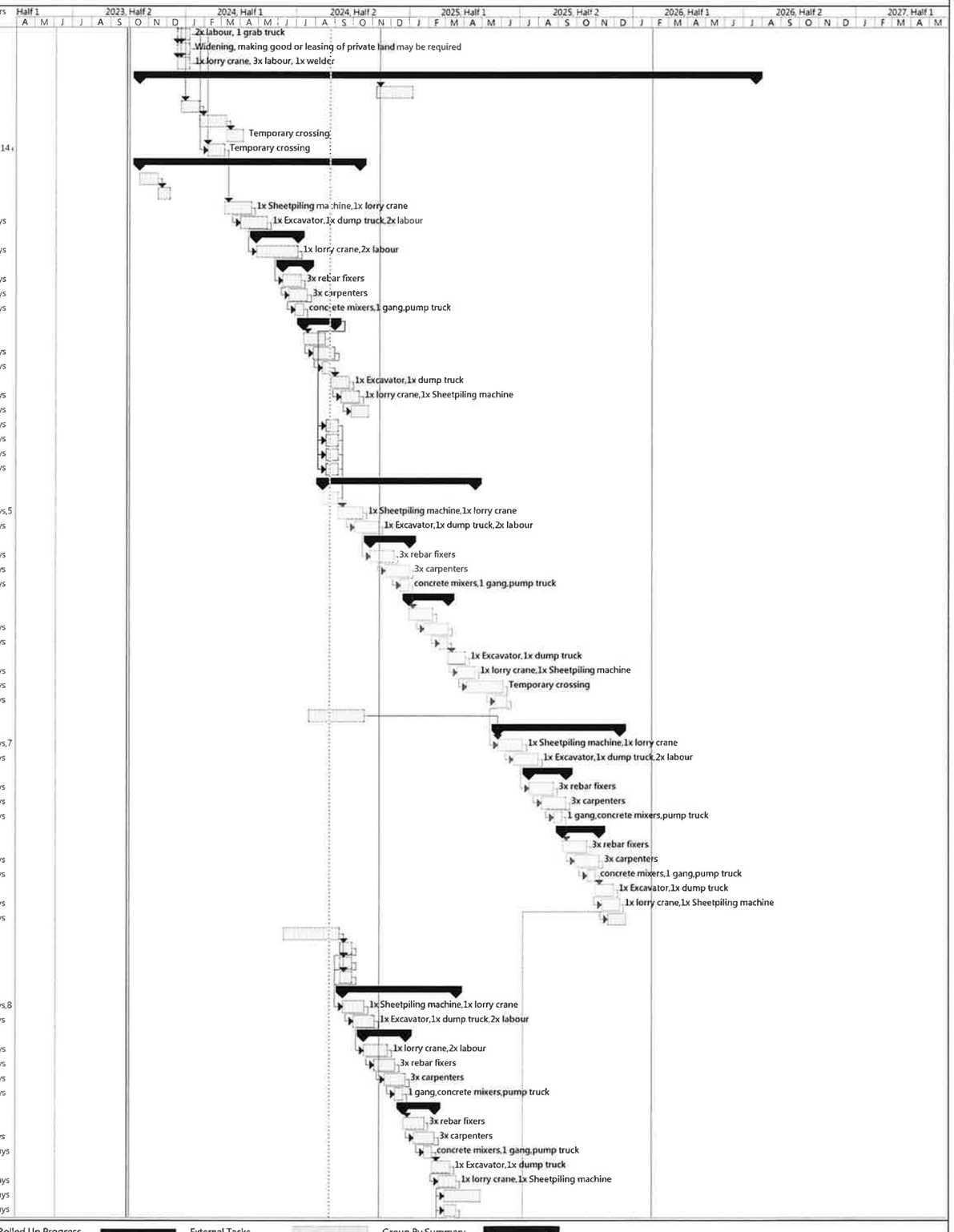
Task		Progress		Summary		Rolled Up Critical Task		Rolled Up Progress		External Tasks	
Critical Task		Milestone		Rolled Up Task		Rolled Up Milestone		Split		Project Summary	

Group By Summary
Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
24	**Site Clearance [A]**	**21 days**	**Tue 23/12/19**	**Mon 24/1/8**	**Tue 23/12/19**	**Mon 24/1/8**	**Fri 24/2/2**	**Thu 24/2/22**	**45 days**	**0**	**23,21**
25	Establish access(es) to channels [A]	21 days	Tue 23/12/19	Mon 24/1/8	Tue 23/12/19	Mon 24/1/8	Fri 24/2/2	Thu 24/2/22	45 days	0	20,23
26	Guarding / Barrier / Hoarding [A]	21 days	Tue 23/12/19	Mon 24/1/8	Tue 23/12/19	Mon 24/1/8	Fri 24/2/2	Thu 24/2/22	45 days	0	20,23
27	**Drainage Channel Works (East)**	**1008 days**	**Thu 23/10/19**	**Wed 26/7/22**	**Thu 23/10/19**	**Wed 26/7/22**	**Fri 24/2/23**	**Mon 26/10/5**	**75 days**		
28	HC05 CH.A284.946~CH.A339.556 (Ex. CH Str. Assessment)	60 days	Fri 24/11/8	Mon 25/1/6	Fri 24/11/8	Mon 25/1/6	Mon 26/6/8	Thu 26/8/6	577 days	0	19
29	(Deleted in PMI) Demolish & relocate wall, gate YLL797/2	30 days	Tue 23/12/26	Wed 24/1/24	Tue 23/12/26	Wed 24/1/24	Sun 26/4/26	Mon 26/5/25	852 days	0	6
30	(Deleted in PMI) HC01 CH.A11.13~CH.A18.14	45 days	Thu 24/1/25	Sat 24/3/9	Thu 24/1/25	Sat 24/3/9	Tue 26/5/26	Thu 26/7/9	852 days	5	29
31	(Deleted in PMI) Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 1)	28 days	Sun 24/3/10	Sat 24/4/6	Sun 24/3/10	Sat 24/4/6	Fri 26/7/10	Thu 26/8/6	852 days	0	30
32	Pedestrian & Vehicular Crossing no. 2 (Box Culvert no. 2) [A]	28 days	Thu 24/2/8	Wed 24/3/6	Thu 24/2/8	Wed 24/3/6	Fri 24/2/23	Thu 24/3/21	15 days	0	26,25,15FS-14 d
33	**HC02 CH.A18.14~CH.A120.261 (BC1~2)**	**359 days**	**Thu 23/10/19**	**Fri 24/10/11**	**Thu 23/10/19**	**Fri 24/10/11**	**Fri 24/3/22**	**Mon 26/10/5**	**155 days**		
34	EWN/007 NCE/001 Ambiguity on Drawings	30 days	Thu 23/10/19	Fri 23/11/17	Thu 23/10/19	Fri 23/11/17	Mon 26/8/17	Tue 26/9/15	1033 days	0	
35	C9 tender for Precast units [A]	20 days	Sat 23/11/18	Thu 23/12/7	Sat 23/11/18	Thu 23/12/7	Wed 26/9/16	Mon 26/10/5	1033 days	0	34
36	Sheetpiling & Temp. Drainage Diversion [A]	44 days	Thu 24/3/7	Fri 24/4/19	Thu 24/3/7	Fri 24/4/19	Fri 24/3/22	Sat 24/5/4	15 days	1	32
37	Excavation and Lateral Support [A]	44 days	Tue 24/4/2	Wed 24/5/15	Tue 24/4/2	Wed 24/5/15	Wed 24/4/17	Thu 24/5/30	15 days	1	36FS-18 days
38	**Walls**	**68 days**	**Sun 24/4/28**	**Thu 24/7/4**	**Sun 24/4/28**	**Thu 24/7/4**	**Mon 24/5/13**	**Fri 24/7/19**	**15 days**		
39	Install precast portion (double beam) [A]	68 days	Sun 24/4/28	Thu 24/7/4	Sun 24/4/28	Thu 24/7/4	Mon 24/5/13	Fri 24/7/19	15 days	0	37FS-18 days
40	**Ground Beams**	**40 days**	**Mon 24/6/10**	**Fri 24/7/19**	**Mon 24/6/10**	**Fri 24/7/19**	**Tue 24/6/25**	**Sat 24/8/3**	**15 days**		
41	Rebar Fixing [A]	30 days	Mon 24/6/10	Tue 24/7/9	Mon 24/6/10	Tue 24/7/9	Tue 24/6/25	Wed 24/7/24	15 days	1	39FS-25 days
42	Formwork Erection and Cast-in items [A]	30 days	Thu 24/6/20	Fri 24/7/19	Thu 24/6/20	Fri 24/7/19	Fri 24/7/5	Sat 24/8/3	15 days	1	41FS-20 days
43	Concreting [A]	14 days	Sun 24/6/30	Sat 24/7/13	Sun 24/6/30	Sat 24/7/13	Mon 24/7/15	Sun 24/7/28	15 days	0	42FS-20 days
44	**Top Wall**	**50 days**	**Sun 24/7/14**	**Sun 24/9/1**	**Sun 24/7/14**	**Sun 24/9/1**	**Mon 24/7/29**	**Mon 24/9/16**	**15 days**		
45	Rebar Fixing	35 days	Sun 24/7/14	Sat 24/8/17	Sun 24/7/14	Sat 24/8/17	Mon 24/7/29	Sun 24/9/1	15 days	1	43
46	Formwork Erection and Cast-in items	35 days	Mon 24/7/29	Sun 24/9/1	Mon 24/7/29	Sun 24/9/1	Tue 24/8/13	Mon 24/9/16	15 days	1	45FS-20 days
47	Concreting	14 days	Tue 24/8/13	Mon 24/8/26	Tue 24/8/13	Mon 24/8/26	Tue 24/9/3	Mon 24/9/16	21 days	0	46FS-20 days
48	Backfilling and Compaction	30 days	Tue 24/8/27	Wed 24/9/25	Tue 24/8/27	Wed 24/9/25	Mon 26/6/8	Tue 26/7/7	650 days	0	47
49	Removal of Sheetpiles	30 days	Thu 24/9/12	Fri 24/10/11	Thu 24/9/12	Fri 24/10/11	Wed 26/6/24	Thu 26/7/23	650 days	0	48FS-14 days
50	Animal Escape Ramp	28 days	Sat 24/9/28	Fri 24/10/25	Sat 24/9/28	Fri 24/10/25	Fri 26/7/10	Thu 26/8/6	650 days	0	49FS-14 days
51	Demolish & relocate toilet YLL797/5 [A]	20 days	Mon 24/8/19	Sat 24/9/7	Mon 24/8/19	Sat 24/9/7	Tue 24/9/3	Sun 24/9/22	15 days	0	44FS-14 days
52	Demolish & relocate container YLL797/6 [A]	20 days	Mon 24/8/19	Sat 24/9/7	Mon 24/8/19	Sat 24/9/7	Tue 24/9/3	Sun 24/9/22	15 days	0	44FS-14 days
53	Demolish & relocate porch YLL797/7 [A]	20 days	Mon 24/8/19	Sat 24/9/7	Mon 24/8/19	Sat 24/9/7	Tue 24/9/3	Sun 24/9/22	15 days	0	44FS-14 days
54	Demolish & relocate fencing, retaining wall YLL797/10,11 [A]	20 days	Mon 24/8/19	Sat 24/9/7	Mon 24/8/19	Sat 24/9/7	Tue 24/9/3	Sun 24/9/22	15 days	0	44FS-14 days
55	**HC03 CH.A126.235~CH.A187.706 (BC2~3)**	**251 days**	**Wed 24/8/14**	**Mon 25/4/21**	**Wed 24/8/14**	**Mon 25/4/21**	**Wed 24/8/14**	**Mon 25/4/21**	**0 days**		
56	[PMI-037] Removal of existing structural features protruding into Work Sit	25 days	Wed 24/8/14	Sat 24/9/7	Wed 24/8/14	Sat 24/9/7	Wed 24/8/14	Sat 24/9/7	0 days	0	
57	Sheetpiling & Temp. Drainage Diversion	40 days	Sun 24/9/8	Thu 24/10/17	Sun 24/9/8	Thu 24/10/17	Sun 24/9/8	Thu 24/10/17	0 days	2	51FS-15 days,5
58	Excavation and Lateral Support	40 days	Fri 24/10/4	Tue 24/11/12	Fri 24/10/4	Tue 24/11/12	Fri 24/10/4	Tue 24/11/12	0 days	2	57FS-14 days
59	**Ground Beams**	**65 days**	**Wed 24/10/30**	**Thu 25/1/2**	**Wed 24/10/30**	**Thu 25/1/2**	**Wed 24/10/30**	**Thu 25/1/2**	**0 days**		
60	Rebar Fixing	40 days	Wed 24/10/30	Sun 24/12/8	Wed 24/10/30	Sun 24/12/8	Wed 24/10/30	Sun 24/12/8	0 days	2	58FS-14 days
61	Formwork Erection and Cast-in items	40 days	Sun 24/11/24	Thu 25/1/2	Sun 24/11/24	Thu 25/1/2	Sun 24/11/24	Thu 25/1/2	0 days	2	60FS-15 days
62	Concreting	14 days	Thu 24/12/19	Wed 25/1/1	Thu 24/12/19	Wed 25/1/1	Thu 24/12/19	Wed 25/1/1	0 days	0	61FS-15 days
63	**Wall**	**65 days**	**Thu 25/1/2**	**Fri 25/3/7**	**Thu 25/1/2**	**Fri 25/3/7**	**Thu 25/1/2**	**Fri 25/3/7**	**0 days**		
64	Rebar Fixing	40 days	Thu 25/1/2	Mon 25/2/10	Thu 25/1/2	Mon 25/2/10	Thu 25/1/2	Mon 25/2/10	0 days	2	62
65	Formwork Erection and Cast-in items	40 days	Mon 25/1/27	Fri 25/3/7	Mon 25/1/27	Fri 25/3/7	Mon 25/1/27	Fri 25/3/7	0 days	2	64FS-15 days
66	Concreting	14 days	Fri 25/2/21	Thu 25/3/6	Fri 25/2/21	Thu 25/3/6	Fri 25/2/21	Thu 25/3/6	0 days	0	65FS-15 days
67	Backfilling and Compaction	30 days	Fri 25/3/7	Sat 25/4/5	Fri 25/3/7	Sat 25/4/5	Fri 25/3/7	Sat 25/4/5	0 days	0	66
68	Removal of Sheetpiles	30 days	Sun 25/3/23	Mon 25/4/21	Sun 25/3/23	Mon 25/4/21	Sun 25/3/23	Mon 25/4/21	0 days	0	67FS-14 days
69	Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 3)	60 days	Tue 25/4/8	Fri 25/6/6	Tue 25/4/8	Fri 25/6/6	Tue 25/4/8	Fri 25/6/6	0 days	0	68FS-14 days
70	Demolish & relocate drainage channel YLL797/12	20 days	Sat 25/5/24	Thu 25/6/12	Sat 25/5/24	Thu 25/6/12	Sat 25/5/24	Thu 25/6/12	0 days	0	69FS-14 days
71	[PMI016] Revised Drainage Channel Details	90 days	Tue 24/7/23	Sun 24/10/20	Tue 24/7/23	Sun 24/10/20	Fri 25/2/28	Wed 25/5/28	220 days		
72	**HC04 CH.A195.853~CH.A284.946 (BC3~Ex. CH)**	**198 days**	**Thu 25/5/29**	**Fri 25/12/12**	**Thu 25/5/29**	**Fri 25/12/12**	**Thu 25/5/29**	**Fri 25/12/12**	**0 days**		
73	Sheetpiling & Temp. Drainage Diversion	40 days	Thu 25/5/29	Mon 25/7/7	Thu 25/5/29	Mon 25/7/7	Thu 25/5/29	Mon 25/7/7	0 days	2	70FS-15 days,7
74	Excavation and Lateral Support	40 days	Mon 25/6/23	Fri 25/8/1	Mon 25/6/23	Fri 25/8/1	Mon 25/6/23	Fri 25/8/1	0 days	2	73FS-15 days
75	**Ground and Edge Beams**	**60 days**	**Fri 25/7/18**	**Mon 25/9/15**	**Fri 25/7/18**	**Mon 25/9/15**	**Fri 25/7/18**	**Mon 25/9/15**	**0 days**		
76	Rebar Fixing	40 days	Fri 25/7/18	Tue 25/8/26	Fri 25/7/18	Tue 25/8/26	Fri 25/7/18	Tue 25/8/26	0 days	2	74FS-15 days
77	Formwork Erection and Cast-in items	40 days	Thu 25/8/7	Mon 25/9/15	Thu 25/8/7	Mon 25/9/15	Thu 25/8/7	Mon 25/9/15	0 days	2	76FS-20 days
78	Concreting	14 days	Wed 25/8/27	Tue 25/9/9	Wed 25/8/27	Tue 25/9/9	Wed 25/8/27	Tue 25/9/9	0 days	0	77FS-20 days
79	**Walls**	**60 days**	**Wed 25/9/10**	**Sat 25/11/8**	**Wed 25/9/10**	**Sat 25/11/8**	**Wed 25/9/10**	**Sat 25/11/8**	**0 days**		
80	Rebar Fixing	40 days	Wed 25/9/10	Sun 25/10/19	Wed 25/9/10	Sun 25/10/19	Wed 25/9/10	Sun 25/10/19	0 days	2	78
81	Formwork Erection and Cast-in items	40 days	Tue 25/9/30	Sat 25/11/8	Tue 25/9/30	Sat 25/11/8	Tue 25/9/30	Sat 25/11/8	0 days	2	80FS-20 days
82	Concreting	14 days	Mon 25/10/20	Sun 25/11/2	Mon 25/10/20	Sun 25/11/2	Mon 25/10/20	Sun 25/11/2	0 days	0	81FS-20 days
83	Backfilling and Compaction	30 days	Mon 25/11/3	Tue 25/12/2	Mon 25/11/3	Tue 25/12/2	Mon 25/11/3	Tue 25/12/2	0 days	0	82
84	Removal of Sheetpiles	30 days	Thu 25/11/13	Fri 25/12/12	Thu 25/11/13	Fri 25/12/12	Thu 25/11/13	Fri 25/12/12	0 days	0	83FS-20 days
85	2x300 pipe with flap valve	30 days	Sun 25/11/23	Mon 25/12/22	Sun 25/11/23	Mon 25/12/22	Wed 26/7/8	Thu 26/8/6	227 days	4	84FS-20 days
86	C9 tender procedure for HC06-08	90 days	Thu 24/6/13	Tue 24/9/10	Thu 24/6/13	Tue 24/9/10	Fri 24/6/28	Wed 24/9/25	15 days		
87	Demolish & relocate metal frame YLL797/28,30,33	20 days	Wed 24/9/11	Mon 24/9/30	Wed 24/9/11	Mon 24/9/30	Thu 24/9/26	Tue 24/10/15	15 days	0	86
88	Demolish & relocate storage YLL797/29	20 days	Wed 24/9/11	Mon 24/9/30	Wed 24/9/11	Mon 24/9/30	Thu 24/9/26	Tue 24/10/15	15 days	0	86
89	Demolish & relocate retaining wall YLL797/32	20 days	Wed 24/9/11	Mon 24/9/30	Wed 24/9/11	Mon 24/9/30	Thu 24/9/26	Tue 24/10/15	15 days	0	86
90	**HC06 CH.A339.556~CH.A400.00**	**187 days**	**Mon 24/9/16**	**Fri 25/3/21**	**Mon 24/9/16**	**Fri 25/3/21**	**Tue 24/10/1**	**Sat 25/4/5**	**15 days**		
91	Sheetpiling & Temp. Drainage Diversion	35 days	Mon 24/9/16	Sun 24/10/20	Mon 24/9/16	Sun 24/10/20	Tue 24/10/1	Mon 24/11/4	15 days	2	87FS-15 days,8
92	Excavation and Lateral Support	35 days	Thu 24/10/3	Wed 24/11/6	Thu 24/10/3	Wed 24/11/6	Fri 24/10/18	Thu 24/11/21	15 days	2	91FS-18 days
93	**Ground and Edge Beams**	**69 days**	**Sun 24/10/20**	**Fri 24/12/27**	**Sun 24/10/20**	**Fri 24/12/27**	**Mon 24/11/4**	**Sat 25/1/11**	**15 days**		
94	Install precast portion	40 days	Sun 24/10/20	Thu 24/11/28	Sun 24/10/20	Thu 24/11/28	Mon 24/11/4	Fri 24/12/13	15 days	0	92FS-18 days
95	Rebar Fixing	35 days	Wed 24/11/6	Tue 24/12/10	Wed 24/11/6	Tue 24/12/10	Thu 24/11/21	Wed 24/12/25	15 days	2	94FS-23 days
96	Formwork Erection and Cast-in items	35 days	Sat 24/11/23	Fri 24/12/27	Sat 24/11/23	Fri 24/12/27	Sun 24/12/8	Sat 25/1/11	15 days	2	95FS-18 days
97	Concreting	14 days	Tue 24/12/10	Mon 24/12/23	Tue 24/12/10	Mon 24/12/23	Wed 24/12/25	Tue 25/1/7	15 days	0	96FS-18 days
98	**Walls**	**52 days**	**Tue 24/12/24**	**Thu 25/2/13**	**Tue 24/12/24**	**Thu 25/2/13**	**Wed 25/1/8**	**Fri 25/2/28**	**15 days**		
99	Rebar Fixing	35 days	Tue 24/12/24	Mon 25/1/27	Tue 24/12/24	Mon 25/1/27	Wed 25/1/8	Tue 25/2/11	15 days	2	97
100	Formwork Erection and Cast-in items	35 days	Fri 25/1/10	Thu 25/2/13	Fri 25/1/10	Thu 25/2/13	Sat 25/1/25	Fri 25/2/28	15 days	2	99FS-18 days
101	Concreting	14 days	Mon 25/1/27	Sun 25/2/9	Mon 25/1/27	Sun 25/2/9	Tue 25/2/11	Mon 25/2/24	15 days	0	100FS-18 days
102	Backfilling and Compaction	30 days	Mon 25/2/10	Tue 25/3/11	Mon 25/2/10	Tue 25/3/11	Tue 25/2/25	Wed 25/3/26	15 days	0	101
103	Removal of Sheetpiles	30 days	Thu 25/2/20	Fri 25/3/21	Thu 25/2/20	Fri 25/3/21	Fri 25/3/7	Sat 25/4/5	15 days	0	102FS-20 days
104	Temp support to 3x ex. Cable bridge	60 days	Sun 25/3/2	Wed 25/4/30	Sun 25/3/2	Wed 25/4/30	Mon 26/6/8	Thu 26/8/6	463 days	4	103FS-20 days
105	Demolish & relocate porch YLL797/34,37	20 days	Sun 25/3/2	Fri 25/3/21	Sun 25/3/2	Fri 25/3/21	Mon 25/3/17	Sat 25/4/5	15 days	0	103FS-20 days



Revision.: 11.0 Date: 31 July 2024

Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
106	**Demolish & relocate car body YLL797/36**	**20 days**	**Sun 25/3/2**	**Fri 25/3/21**	**Sun 25/3/2**	**Fri 25/3/21**	**Mon 25/3/17**	**Sat 25/4/5**	**15 days**	**0**	**103FS-20 days**
107	Demolish & relocate godown YLL797/35	20 days	Sun 25/3/2	Fri 25/3/21	Sun 25/3/2	Fri 25/3/21	Mon 25/3/17	Sat 25/4/5	15 days	0	103FS-20 days
108	HC07 CH.A400.00~CH.A500.00	187 days	Fri 25/3/7	Tue 25/9/9	Fri 25/3/7	Tue 25/9/9	Sat 25/3/22	Wed 25/9/24	15 days		
109	Sheetpiling & Temp. Drainage Diversion	35 days	Fri 25/3/7	Thu 25/4/10	Fri 25/3/7	Thu 25/4/10	Sat 25/3/22	Fri 25/4/25	15 days	2	105FS-15 days,
110	Excavation and Lateral Support	35 days	Mon 25/3/24	Sun 25/4/27	Mon 25/3/24	Sun 25/4/27	Tue 25/4/8	Mon 25/5/12	15 days	2	109FS-18 days
111	**Ground and Edge Beams**	**69 days**	**Thu 25/4/10**	**Tue 25/6/17**	**Thu 25/4/10**	**Tue 25/6/17**	**Fri 25/4/25**	**Wed 25/7/2**	**15 days**		
112	Install precast portion	40 days	Thu 25/4/10	Mon 25/5/19	Thu 25/4/10	Mon 25/5/19	Fri 25/4/25	Tue 25/6/3	15 days	0	110FS-18 days
113	Rebar Fixing	35 days	Sun 25/4/27	Sat 25/5/31	Sun 25/4/27	Sat 25/5/31	Mon 25/5/12	Sun 25/6/15	15 days	2	112FS-23 days
114	Formwork Erection and Cast-in items	35 days	Wed 25/5/14	Tue 25/6/17	Wed 25/5/14	Tue 25/6/17	Thu 25/5/29	Wed 25/7/2	15 days	2	113FS-18 days
115	Concreting	14 days	Sat 25/5/31	Fri 25/6/13	Sat 25/5/31	Fri 25/6/13	Sun 25/6/15	Sat 25/6/28	15 days	0	114FS-18 days
116	**Walls**	**52 days**	**Sat 25/6/14**	**Mon 25/8/4**	**Sat 25/6/14**	**Mon 25/8/4**	**Sun 25/6/29**	**Tue 25/8/19**	**15 days**		
117	Rebar Fixing	35 days	Sat 25/6/14	Fri 25/7/18	Sat 25/6/14	Fri 25/7/18	Sun 25/6/29	Sat 25/8/2	15 days	2	115
118	Formwork Erection and Cast-in items	35 days	Tue 25/7/1	Mon 25/8/4	Tue 25/7/1	Mon 25/8/4	Wed 25/7/16	Tue 25/8/19	15 days	2	117FS-18 days
119	Concreting	14 days	Fri 25/7/18	Thu 25/7/31	Fri 25/7/18	Thu 25/7/31	Sat 25/8/2	Fri 25/8/15	15 days	0	118FS-18 days
120	Backfilling and Compaction	30 days	Fri 25/8/1	Sat 25/8/30	Fri 25/8/1	Sat 25/8/30	Sat 25/8/16	Sun 25/9/14	15 days	0	119
121	Removal of Sheetpiles	30 days	Mon 25/8/11	Tue 25/9/9	Mon 25/8/11	Tue 25/9/9	Tue 25/8/26	Wed 25/9/24	15 days	0	120FS-20 days
122	Demolish & relocate porch, hoarding YLL797/44	20 days	Thu 25/8/21	Tue 25/9/9	Thu 25/8/21	Tue 25/9/9	Fri 25/9/5	Wed 25/9/24	15 days	0	121FS-20 days
123	Demolish & relocate porch YLL797/38,39	20 days	Thu 25/8/21	Tue 25/9/9	Thu 25/8/21	Tue 25/9/9	Fri 25/9/5	Wed 25/9/24	15 days	0	121FS-20 days
124	HC08 CH.A500.00~CH.A546.816	170 days	Tue 25/8/26	Wed 26/2/11	Tue 25/8/26	Wed 26/2/11	Wed 25/9/10	Thu 26/2/26	15 days		
125	Sheetpiling & Temp. Drainage Diversion	30 days	Tue 25/8/26	Wed 25/9/24	Tue 25/8/26	Wed 25/9/24	Wed 25/9/10	Thu 25/10/9	15 days	2	122FS-15 days,
126	Excavation and Lateral Support	30 days	Wed 25/9/10	Thu 25/10/9	Wed 25/9/10	Thu 25/10/9	Thu 25/9/25	Fri 25/10/24	15 days	2	125FS-15 days
127	**Ground and Edge Beams**	**65 days**	**Thu 25/9/25**	**Fri 25/11/28**	**Thu 25/9/25**	**Fri 25/11/28**	**Fri 25/10/10**	**Sat 25/12/13**	**15 days**		
128	Install precast portion	40 days	Thu 25/9/25	Mon 25/11/3	Thu 25/9/25	Mon 25/11/3	Fri 25/10/10	Tue 25/11/18	15 days	0	126FS-15 days
129	Rebar Fixing	30 days	Wed 25/10/15	Thu 25/11/13	Wed 25/10/15	Thu 25/11/13	Thu 25/10/30	Fri 25/11/28	15 days	2	128FS-20 days
130	Formwork Erection and Cast-in items	30 days	Thu 25/10/30	Fri 25/11/28	Thu 25/10/30	Fri 25/11/28	Fri 25/11/14	Sat 25/12/13	15 days	2	129FS-15 days
131	Concreting	10 days	Fri 25/11/14	Sun 25/11/23	Fri 25/11/14	Sun 25/11/23	Sat 25/11/29	Mon 25/12/8	15 days	0	130FS-15 days
132	**Walls**	**45 days**	**Mon 25/11/24**	**Wed 26/1/7**	**##########**	**Wed 26/1/7**	**Tue 25/12/9**	**Thu 26/1/22**	**15 days**		
133	Rebar Fixing	30 days	Mon 25/11/24	Tue 25/12/23	Mon 25/11/24	Tue 25/12/23	Tue 25/12/9	Wed 26/1/7	15 days	2	131
134	Formwork Erection and Cast-in items	30 days	Tue 25/12/9	Wed 26/1/7	Tue 25/12/9	Wed 26/1/7	Wed 25/12/24	Thu 26/1/22	15 days	2	133FS-15 days
135	Concreting	10 days	Wed 25/12/24	Fri 26/1/2	Wed 25/12/24	Fri 26/1/2	Thu 26/1/8	Sat 26/1/17	15 days	0	134FS-15 days
136	Backfilling and Compaction	30 days	Sat 26/1/3	Sun 26/2/1	Sat 26/1/3	Sun 26/2/1	Sun 26/1/18	Mon 26/2/16	15 days	0	135
137	Removal of Sheetpiles	30 days	Tue 26/1/13	Wed 26/2/11	Tue 26/1/13	Wed 26/2/11	Wed 26/1/28	Thu 26/2/26	15 days	0	136FS-20 days
138	Pedestrian & Vehicular Crossing no. 3 (Box Culvert no. 4)	60 days	Fri 26/1/23	Mon 26/3/23	Fri 26/1/23	Mon 26/3/23	Mon 26/6/8	Thu 26/8/6	136 days	4	137FS-20 days
139	Demolish & relocate hoarding, wall YLL797/40	20 days	Fri 26/1/23	Wed 26/2/11	Fri 26/1/23	Wed 26/2/11	Sat 26/2/7	Thu 26/2/26	15 days	0	137FS-20 days
140	Demolish & relocate storage YLL797/42	20 days	Fri 26/1/23	Wed 26/2/11	Fri 26/1/23	Wed 26/2/11	Sat 26/2/7	Thu 26/2/26	15 days	0	137FS-20 days
141	HC09 CH.A546.816~CH.A611.404	155 days	Wed 26/1/28	Wed 26/7/1	Wed 26/1/28	Wed 26/7/1	Thu 26/2/12	Thu 26/7/16	15 days		
142	Sheetpiling & Temp. Drainage Diversion	30 days	Wed 26/1/28	Thu 26/2/26	Wed 26/1/28	Thu 26/2/26	Thu 26/2/12	Fri 26/3/13	15 days	1	139FS-15 days,
143	Excavation and Lateral Support	30 days	Thu 26/2/12	Fri 26/3/13	Thu 26/2/12	Fri 26/3/13	Fri 26/2/27	Sat 26/3/28	15 days	1	142FS-15 days
144	**Base Slab**	**45 days**	**Fri 26/2/27**	**Sun 26/4/12**	**Fri 26/2/27**	**Sun 26/4/12**	**Sat 26/3/14**	**Mon 26/4/27**	**15 days**		
145	Rebar Fixing	30 days	Fri 26/2/27	Sat 26/3/28	Fri 26/2/27	Sat 26/3/28	Sat 26/3/14	Sun 26/4/12	15 days	1	143FS-15 days
146	Formwork Erection and Cast-in items	30 days	Sat 26/3/14	Sun 26/4/12	Sat 26/3/14	Sun 26/4/12	Sun 26/3/29	Mon 26/4/27	15 days	1	145FS-15 days
147	Concreting	10 days	Sun 26/3/29	Tue 26/4/7	Sun 26/3/29	Tue 26/4/7	Mon 26/4/13	Wed 26/4/22	15 days	0	146FS-15 days
148	**Walls and Roof Slab**	**45 days**	**Wed 26/4/8**	**Fri 26/5/22**	**Wed 26/4/8**	**Fri 26/5/22**	**Thu 26/4/23**	**Sat 26/6/6**	**15 days**		
149	Rebar Fixing	30 days	Wed 26/4/8	Thu 26/5/7	Wed 26/4/8	Thu 26/5/7	Thu 26/4/23	Fri 26/5/22	15 days	1	147
150	Formwork Erection and Cast-in items	30 days	Thu 26/4/23	Fri 26/5/22	Thu 26/4/23	Fri 26/5/22	Fri 26/5/8	Sat 26/6/6	15 days	1	149FS-15 days
151	Concreting	10 days	Fri 26/5/8	Sun 26/5/17	Fri 26/5/8	Sun 26/5/17	Sat 26/5/23	Mon 26/6/1	15 days	0	150FS-15 days
152	Backfilling and Compaction	30 days	Mon 26/5/18	Tue 26/6/16	Mon 26/5/18	Tue 26/6/16	Tue 26/6/2	Wed 26/7/1	15 days	0	151
153	Removal of Sheetpiles	30 days	Tue 26/6/2	Wed 26/7/1	Tue 26/6/2	Wed 26/7/1	Wed 26/6/17	Thu 26/7/16	15 days	0	152FS-15 days
154	Facing stone	21 days	Thu 26/7/2	Wed 26/7/22	Thu 26/7/2	Wed 26/7/22	Fri 26/7/17	Thu 26/8/6	15 days	0	153
155	ABWF works	21 days	Thu 26/7/2	Wed 26/7/22	Thu 26/7/2	Wed 26/7/22	Fri 26/7/17	Thu 26/8/6	15 days	0	153
156	Bedding works	21 days	Thu 26/7/2	Wed 26/7/22	Thu 26/7/2	Wed 26/7/22	Fri 26/7/17	Thu 26/8/6	15 days	0	153
157	Drainage Channel Works (West)	637 days	Fri 24/11/8	Thu 26/8/6	Fri 24/11/8	Thu 26/8/6	Mon 25/7/21	Thu 26/8/6	0 days		
158	HC11 CH.A674.419~CH.A740.619 (Ex. CH Str. Assessment)	60 days	Fri 24/11/8	Mon 25/1/6	Fri 24/11/8	Mon 25/1/6	Mon 26/6/8	Thu 26/8/6	577 days	0	19
159	Demolish ex. Geotechnical feature 6NE-B/R19	25 days	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	0 days	0	84FS-145 days
160	Demolish ex. Geotechnical feature 6NE-B/R19	25 days	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	0 days	0	84FS-145 days
161	Demolish & relocate boundary wall, platform, gate YLL797/46	25 days	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	Mon 25/7/21	Thu 25/8/14	0 days	0	84FS-145 days
162	HC12 CH.A740.619~CH.A863.619	211 days	Thu 25/7/31	Thu 26/2/26	Thu 25/7/31	Thu 26/2/26	Thu 25/7/31	Thu 26/2/26	0 days		
163	Sheetpiling & Temp. Drainage Diversion	50 days	Thu 25/7/31	Thu 25/9/18	Thu 25/7/31	Thu 25/9/18	Thu 25/7/31	Thu 25/9/18	0 days	2	159FS-15 days,
164	Excavation and Lateral Support	50 days	Mon 25/8/25	Mon 25/10/13	Mon 25/8/25	Mon 25/10/13	Mon 25/8/25	Mon 25/10/13	0 days	2	163FS-25 days
165	**Ground and Edge Beams**	**77 days**	**Fri 25/9/19**	**Thu 25/12/4**	**Fri 25/9/19**	**Thu 25/12/4**	**Fri 25/9/19**	**Thu 25/12/4**	**0 days**		
166	Install precast portion	50 days	Fri 25/9/19	Fri 25/11/7	Fri 25/9/19	Fri 25/11/7	Fri 25/9/19	Fri 25/11/7	0 days	0	164FS-25 days
167	Rebar Fixing	35 days	Tue 25/10/14	Mon 25/11/17	Tue 25/10/14	Mon 25/11/17	Tue 25/10/14	Mon 25/11/17	0 days	2	166FS-25 days
168	Formwork Erection and Cast-in items	35 days	Fri 25/10/31	Thu 25/12/4	Fri 25/10/31	Thu 25/12/4	Fri 25/10/31	Thu 25/12/4	0 days	2	167FS-18 days
169	Concreting	14 days	Mon 25/11/17	Sun 25/11/30	Mon 25/11/17	Sun 25/11/30	Mon 25/11/17	Sun 25/11/30	0 days	0	168FS-18 days
170	**Walls**	**52 days**	**Mon 25/12/1**	**Wed 26/1/21**	**Mon 25/12/1**	**Wed 26/1/21**	**Mon 25/12/1**	**Wed 26/1/21**	**0 days**		
171	Rebar Fixing	35 days	Mon 25/12/1	Sun 26/1/4	Mon 25/12/1	Sun 26/1/4	Mon 25/12/1	Sun 26/1/4	0 days	2	169
172	Formwork Erection and Cast-in items	35 days	Thu 25/12/18	Wed 26/1/21	Thu 25/12/18	Wed 26/1/21	Thu 25/12/18	Wed 26/1/21	0 days	2	171FS-18 days
173	Concreting	14 days	Sun 26/1/4	Sat 26/1/17	Sun 26/1/4	Sat 26/1/17	Sun 26/1/4	Sat 26/1/17	0 days	0	172FS-18 days
174	Backfilling and Compaction	30 days	Sun 26/1/18	Mon 26/2/16	Sun 26/1/18	Mon 26/2/16	Sun 26/1/18	Mon 26/2/16	0 days	0	173
175	Removal of Sheetpiles	30 days	Wed 26/1/28	Thu 26/2/26	Wed 26/1/28	Thu 26/2/26	Wed 26/1/28	Thu 26/2/26	0 days	0	174FS-20 days
176	HC13 CH.A863.619~CH.A905.630	180 days	Sat 26/2/7	Wed 26/8/5	Sat 26/2/7	Wed 26/8/5	Sat 26/2/7	Wed 26/8/5	0 days		
177	Sheetpiling & Temp. Drainage Diversion	50 days	Sat 26/2/7	Sat 26/3/28	Sat 26/2/7	Sat 26/3/28	Sat 26/2/7	Sat 26/3/28	0 days	2	175FS-20 days
178	Excavation and Lateral Support	50 days	Wed 26/3/4	Wed 26/4/22	Wed 26/3/4	Wed 26/4/22	Wed 26/3/4	Wed 26/4/22	0 days	2	177FS-25 days
179	**Ground and Edge Beams**	**65 days**	**Sun 26/3/29**	**Mon 26/6/1**	**Sun 26/3/29**	**Mon 26/6/1**	**Sun 26/3/29**	**Mon 26/6/1**	**0 days**		
180	Install precast portion (ground beam)	40 days	Sun 26/3/29	Thu 26/5/7	Sun 26/3/29	Thu 26/5/7	Sun 26/3/29	Thu 26/5/7	0 days	0	178FS-25 days
181	Rebar Fixing	30 days	Sat 26/4/18	Sun 26/5/17	Sat 26/4/18	Sun 26/5/17	Sat 26/4/18	Sun 26/5/17	0 days	2	180FS-20 days
182	Formwork Erection and Cast-in items	30 days	Sun 26/5/3	Mon 26/6/1	Sun 26/5/3	Mon 26/6/1	Sun 26/5/3	Mon 26/6/1	0 days	2	181FS-15 days
183	Concreting	10 days	Mon 26/5/18	Wed 26/5/27	Mon 26/5/18	Wed 26/5/27	Mon 26/5/18	Wed 26/5/27	0 days	0	182FS-15 days
184	**Walls**	**30 days**	**Thu 26/5/28**	**Fri 26/6/26**	**Thu 26/5/28**	**Fri 26/6/26**	**Thu 26/5/28**	**Fri 26/6/26**	**0 days**		
185	Rebar Fixing	20 days	Thu 26/5/28	Tue 26/6/16	Thu 26/5/28	Tue 26/6/16	Thu 26/5/28	Tue 26/6/16	0 days	2	183
186	Formwork Erection and Cast-in items	20 days	Sun 26/6/7	Fri 26/6/26	Sun 26/6/7	Fri 26/6/26	Sun 26/6/7	Fri 26/6/26	0 days	2	185FS-10 days
187	Concreting	10 days	Wed 26/6/17	Fri 26/6/26	Wed 26/6/17	Fri 26/6/26	Wed 26/6/17	Fri 26/6/26	0 days	0	186FS-10 days

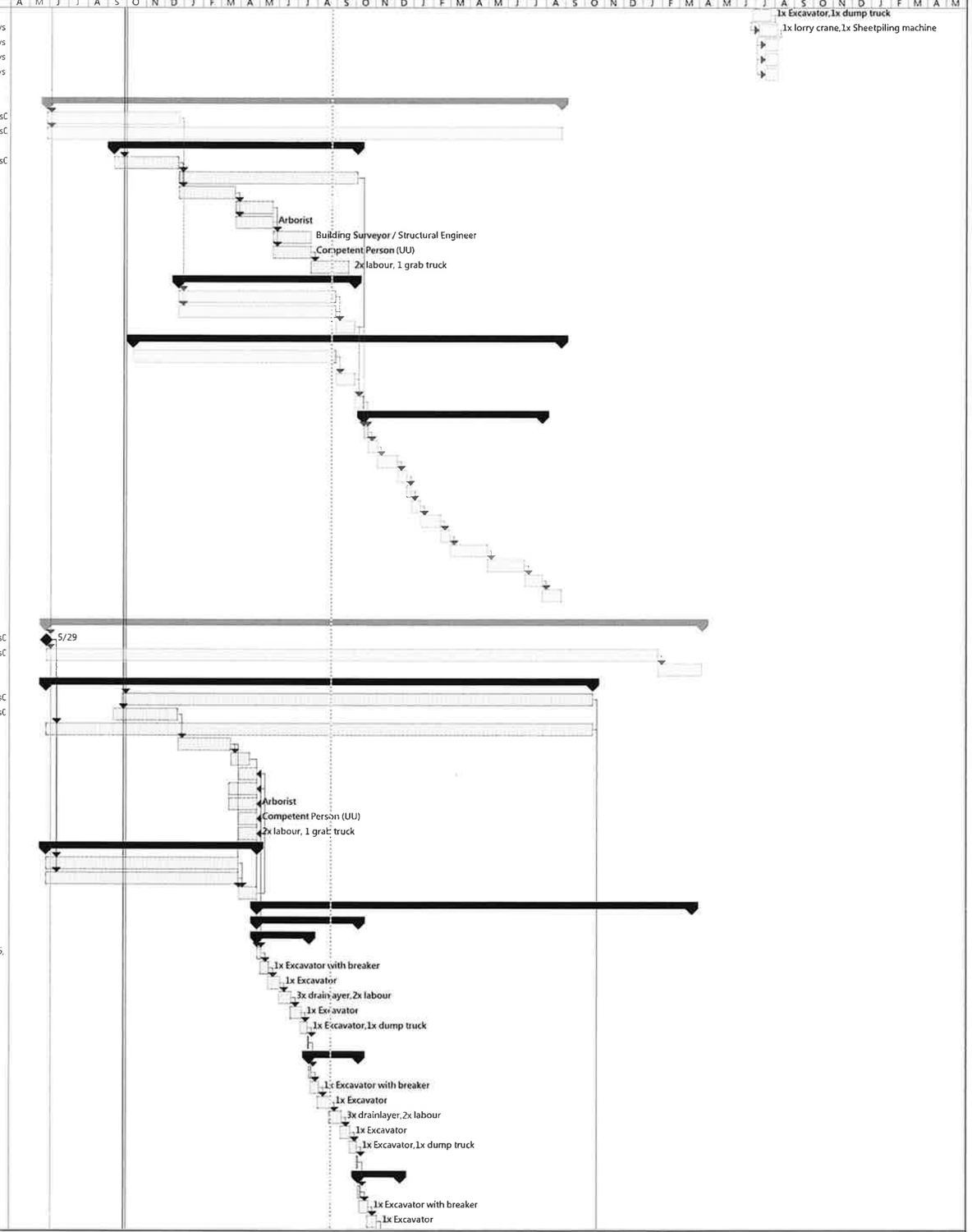
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
188	**Backfilling and Compaction**	**30 days**	**Sat 26/6/27**	**Sun 26/7/26**	**Sat 26/6/27**	Sun 26/7/26	**Sat** 26/6/27	Sun 26/7/26	**0 days**	0	187
189	Removal of Sheetpiles	30 days	Tue 26/7/7	Wed 26/8/5	Tue 26/7/7	Wed 26/8/5	Tue 26/7/7	Wed 26/8/5	0 days	0	188FS-20 days
190	Facing stone	21 days	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	0 days	0	189FS-20 days
191	ABWF works	21 days	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	0 days	0	189FS-20 days
192	Bedding works	21 days	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	Fri 26/7/17	Thu 26/8/6	0 days	0	189FS-20 days
112											
113	Section VII	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Mon 26/10/5	0 days		
2	access date of Portion D	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	0 days	0	\\WingTatNasC
3	section VII (Ha Che - Fam Kam Road)	820 days	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	Tue 23/5/30	Tue 25/8/26	0 days	0	\\WingTatNasC
4	Site Establishment	389 days	Tue 23/9/12	Fri 24/10/4	Tue 23/9/12	Fri 24/10/4	Fri 23/9/22	Mon 26/10/5	10 days		
5	Public Liaison and Negotiation with Village Rep. [A]	104 days	Tue 23/9/12	Sun 23/12/24	Tue 23/9/12	Sun 23/12/24	Fri 23/9/22	Wed 24/1/3	10 days	0	\\WingTatNasC
6	Initial Survey	285 days	Mon 23/12/25	Fri 24/10/4	Mon 23/12/25	Fri 24/10/4	Thu 24/1/4	Mon 24/10/14	10 days	0	2FS-1 day,5
8	Initial Safety & Environmental measures	91 days	Mon 23/12/25	Sun 24/3/24	Mon 23/12/25	Sun 24/3/24	Thu 26/1/8	Wed 26/4/8	745 days	0	2FS-1 day,5
9	Setup of instrumentation and monitoring	60 days	Mon 24/3/25	Thu 24/5/23	Mon 24/3/25	Thu 24/5/23	Thu 26/4/9	Sun 26/6/7	745 days	0	8
10	Tree Survey [A]	60 days	Mon 24/3/25	Thu 24/5/23	Mon 24/3/25	Thu 24/5/23	Thu 26/4/9	Sun 26/6/7	745 days	0	8
11	Condition Survey	60 days	Fri 24/5/24	Mon 24/7/22	Fri 24/5/24	Mon 24/7/22	Fri 26/8/7	Mon 26/10/5	805 days	0	9,10
12	UU detection	60 days	Fri 24/5/24	Mon 24/7/22	Fri 24/5/24	Mon 24/7/22	Mon 26/6/8	Thu 26/8/6	745 days	0	9,10
13	Site Clearance	60 days	Tue 24/7/23	Fri 24/9/20	Tue 24/7/23	Fri 24/9/20	Fri 26/8/7	Mon 26/10/5	745 days	0	12
14	Temporary Traffic Arrangement	281 days	Mon 23/12/25	Mon 24/9/30	##########	Mon 24/9/30	##########	Mon 24/9/30	0 days		
15	Application of XP	251 days	Mon 23/12/25	Sat 24/8/31	Mon 23/12/25	Sat 24/8/31	Mon 23/12/25	Sat 24/8/31	0 days	0	2FS-1 day
16	Submission of TTA and Arrange TMLG [A]	251 days	Mon 23/12/25	Sat 24/8/31	Mon 23/12/25	Sat 24/8/31	Mon 23/12/25	Sat 24/8/31	0 days	0	2FS-1 day
17	Approval of TTA [A]	30 days	Sun 24/9/1	Mon 24/9/30	Sun 24/9/1	Mon 24/9/30	Sun 24/9/1	Mon 24/9/30	0 days	0	15,16
18	Drain Laying Works	684 days	Fri 23/10/13	Tue 25/8/26	Fri 23/10/13	Tue 25/8/26	Fri 23/10/13	Tue 25/8/26	0 days		
19	[PM1022] Alternative methodology design for drainage channel underneath Fan Kam Road (impact to be ascertained)	324 days	Fri 23/10/13	Sat 24/8/31	Fri 23/10/13	Sat 24/8/31	Fri 23/10/13	Sat 24/8/31	0 days	0	
20	Acceptance of alternative methodology and protection method to ex. Dongjiang Watermain	30 days	Sun 24/9/1	Mon 24/9/30	Sun 24/9/1	Mon 24/9/30	Sun 24/9/1	Mon 24/9/30	0 days	0	19
21	Protection to ex. Dongjiang Water Main	14 days	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	Tue 24/10/1	Mon 24/10/14	0 days	0	17,20
22	HC10 CH.A611.404~CH.A674.419 (Fan Kam Road)	286 days	Tue 24/10/15	Sun 25/7/27	Tue 24/10/15	Sun 25/7/27	Tue 24/10/15	Sun 25/7/27	0 days		
23	N/B TTA implementation	7 days	Tue 24/10/15	Mon 24/10/21	Tue 24/10/15	Mon 24/10/21	Tue 24/10/15	Mon 24/10/21	0 days	0	21,17,6
24	**Sheet Piles installation**	15 days	Tue 24/10/22	Tue 24/11/5	Tue 24/10/22	Tue 24/11/5	Tue 24/10/22	Tue 24/11/5	0 days	0	23
25	Construction of top slab	32 days	Wed 24/11/6	Sat 24/12/7	Wed 24/11/6	Sat 24/12/7	Wed 24/11/6	Sat 24/12/7	0 days	0	24
26	Backfilling and reinstatement	15 days	Sun 24/12/8	Sun 24/12/22	Sun 24/12/8	Sun 24/12/22	Sun 24/12/8	Sun 24/12/22	0 days	0	25
27	S/B TTA implementation	7 days	Mon 24/12/23	Sun 24/12/29	Mon 24/12/23	Sun 24/12/29	Mon 24/12/23	Sun 24/12/29	0 days	0	26
28	Sheet Piles installation	15 days	Mon 24/12/30	Mon 25/1/13	Mon 24/12/30	Mon 25/1/13	Mon 24/12/30	Mon 25/1/13	0 days	0	27
29	Construction of top slab	32 days	Tue 25/1/14	Fri 25/2/14	Tue 25/1/14	Fri 25/2/14	Tue 25/1/14	Fri 25/2/14	0 days	0	28
30	Backfilling and reinstatement	15 days	Sat 25/2/15	Sat 25/3/1	Sat 25/2/15	Sat 25/3/1	Sat 25/2/15	Sat 25/3/1	0 days	0	29
31	Demolition of existing culvert & install temp. support	60 days	Sun 25/3/2	Wed 25/4/30	Sun 25/3/2	Wed 25/4/30	Sun 25/3/2	Wed 25/4/30	0 days	0	30
32	Construction of alternative box-culvert	60 days	Thu 25/5/1	Sun 25/6/29	Thu 25/5/1	Sun 25/6/29	Thu 25/5/1	Sun 25/6/29	0 days	0	31
33	Removal of temporary support	28 days	Mon 25/6/30	Sun 25/7/27	Mon 25/6/30	Sun 25/7/27	Mon 25/6/30	Sun 25/7/27	0 days	0	32
34	CCTV inspection and T&C	30 days	Mon 25/7/28	Tue 25/8/26	Mon 25/7/28	Tue 25/8/26	Mon 25/7/28	Tue 25/8/26	0 days	0	33
114											
115	Section V	1045 days	Mon 23/5/29	Tue 26/4/7	Mon 23/5/29	Tue 26/4/7	Tue 23/5/30	Mon 26/10/5	1 day		
2	access date of Portion E1	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Tue 23/6/13	Tue 23/6/13	15 days	0	\\WingTatNasC
3	section V (Shan Ha Tsuen - Shan Ha Road)	973 days	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	0 days	0	\\WingTatNasC
4	Planned Completion Day	70 days	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	0 days	0	3
5	Site Establishment	871 days	Mon 23/5/29	Wed 25/10/15	Mon 23/5/29	Wed 25/10/15	Tue 23/6/13	Thu 25/10/30	15 days		
6	Prepare and Accept Temp. Works Design and Method Statement [A]	751 days	Tue 23/9/26	Wed 25/10/15	Tue 23/9/26	Wed 25/10/15	Wed 23/10/11	Thu 25/10/30	15 days	0	\\WingTatNasC
7	Public Liaison and Negotiation with Village Rep. [A]	104 days	Tue 23/9/12	Sun 23/12/24	Tue 23/9/12	Sun 23/12/24	Mon 23/10/9	Sat 24/1/20	27 days	0	\\WingTatNasC
8	Initial Survey [A]	871 days	Mon 23/5/29	Wed 25/10/15	Mon 23/5/29	Wed 25/10/15	Tue 23/6/13	Thu 25/10/30	15 days	0	2FS-1 day
9	[EWN011] Objection and additional request of Village Rep.	85 days	Mon 23/12/25	Mon 24/3/18	Mon 23/12/25	Mon 24/3/18	Sun 24/1/21	Sun 24/4/14	27 days	0	7
10	[EWN011] Objection and additional request of Village Rep.	30 days	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	Mon 24/4/15	Tue 24/5/14	27 days	0	9
12	Initial Safety & Environmental measures [A]	30 days	Sun 24/3/31	Mon 24/4/29	Sun 24/3/31	Mon 24/4/29	Mon 24/4/15	Tue 24/5/14	15 days	0	17FF
14	Setup of instrumentation and monitoring [A]	45 days	Sat 24/3/16	Mon 24/4/29	Sat 24/3/16	Mon 24/4/29	Sun 24/3/31	Tue 24/5/14	15 days	0	17FF
15	Tree Survey [A]	45 days	Sat 24/3/16	Mon 24/4/29	Sat 24/3/16	Mon 24/4/29	Sun 24/3/31	Tue 24/5/14	15 days	0	17FF
16	UU detection [A]	30 days	Sun 24/3/31	Mon 24/4/29	Sun 24/3/31	Mon 24/4/29	Mon 24/4/15	Tue 24/5/14	15 days	0	17FF
17	Site Clearance [A]	30 days	Sun 24/3/31	Mon 24/4/29	Sun 24/3/31	Mon 24/4/29	Mon 24/4/15	Tue 24/5/14	15 days	0	21FF
18	Temporary Traffic Arrangement	337 days	Mon 23/5/29	Mon 24/4/29	Mon 23/5/29	Mon 24/4/29	Tue 23/6/13	Tue 24/5/14	15 days		
19	Application of XP [A]	307 days	Mon 23/5/29	Sat 24/3/30	Mon 23/5/29	Sat 24/3/30	Tue 23/6/13	Sun 24/4/14	15 days	0	2FS-1 day
20	Submission of TTA and Arrange TMLG [A]	307 days	Mon 23/5/29	Sat 24/3/30	Mon 23/5/29	Sat 24/3/30	Tue 23/6/13	Sun 24/4/14	15 days	0	2FS-1 day
21	Approval of TTA [A]	30 days	Sun 24/3/31	Mon 24/4/29	Sun 24/3/31	Mon 24/4/29	Mon 24/4/15	Tue 24/5/14	15 days	0	19,20,9
22	Drain Laying Works	692 days	Tue 24/4/30	Sun 26/3/22	Tue 24/4/30	Sun 26/3/22	Wed 24/5/15	Mon 26/4/6	15 days		
23	SHT.A3A~SHT.A04,1500PC,B,L=49.29,D=3.65	161 days	Tue 24/4/30	Mon 24/10/7	Tue 24/4/30	Mon 24/10/7	Wed 24/5/15	Tue 24/10/22	15 days		
24	Stage 1	83 days	Tue 24/4/30	Sun 24/7/21	Tue 24/4/30	Sun 24/7/21	Wed 24/5/15	Mon 24/8/5	15 days		
25	TTA Implementation (trial run) [A]	7 days	Tue 24/4/30	Mon 24/5/6	Tue 24/4/30	Mon 24/5/6	Wed 24/5/15	Tue 24/5/21	15 days	0	17,21,12,14,15,
26	Breaking Ground [A]	14 days	Sun 24/5/5	Sat 24/5/18	Sun 24/5/5	Sat 24/5/18	Mon 24/5/20	Sun 24/6/2	15 days	1	25FS-2 days
27	Excavation and Lateral Support [A]	20 days	Fri 24/5/17	Wed 24/6/5	Fri 24/5/17	Wed 24/6/5	Sat 24/6/1	Thu 24/6/20	15 days	2	26FS-2 days
28	Drain Laying [A]	20 days	Tue 24/6/4	Sun 24/6/23	Tue 24/6/4	Sun 24/6/23	Wed 24/6/19	Mon 24/7/8	15 days	2	27FS-2 days
29	Bedding and Backfilling [A]	18 days	Sat 24/6/22	Tue 24/7/9	Sat 24/6/22	Tue 24/7/9	Sun 24/7/7	Wed 24/7/24	15 days	0	28FS-2 days
30	Reinstatement [A]	12 days	Mon 24/7/8	Fri 24/7/19	Mon 24/7/8	Fri 24/7/19	Tue 24/7/23	Sat 24/8/3	15 days	0	29FS-2 days
31	TTA Removal [A]	2 days	Sat 24/7/20	Sun 24/7/21	Sat 24/7/20	Sun 24/7/21	Sun 24/8/4	Mon 24/8/5	15 days	0	30
32	Stage 2	78 days	Mon 24/7/22	Mon 24/10/7	Mon 24/7/22	Mon 24/10/7	Tue 24/8/6	Tue 24/10/22	15 days		
33	TTA Implementation [A]	4 days	Mon 24/7/22	Thu 24/7/25	Mon 24/7/22	Thu 24/7/25	Tue 24/8/6	Fri 24/8/9	15 days	0	31
34	Breaking Ground [A]	14 days	Wed 24/7/24	Tue 24/8/6	Wed 24/7/24	Tue 24/8/6	Thu 24/8/8	Wed 24/8/21	15 days	1	33FS-2 days
35	Excavation and Lateral Support	20 days	Mon 24/8/5	Sat 24/8/24	Mon 24/8/5	Sat 24/8/24	Tue 24/8/20	Sun 24/9/8	15 days	2	34FS-2 days
36	Drain Laying	20 days	Fri 24/8/23	Wed 24/9/11	Fri 24/8/23	Wed 24/9/11	Sat 24/9/7	Thu 24/9/26	15 days	2	35FS-2 days
37	Bedding and Backfilling	16 days	Tue 24/9/10	Wed 24/9/25	Tue 24/9/10	Wed 24/9/25	Wed 24/9/25	Thu 24/10/10	15 days	0	36FS-2 days
38	Reinstatement	12 days	Tue 24/9/24	Sat 24/10/5	Tue 24/9/24	Sat 24/10/5	Wed 24/10/9	Sun 24/10/20	15 days	0	37FS-2 days
39	TTA Removal	2 days	Sun 24/10/6	Mon 24/10/7	Sun 24/10/6	Mon 24/10/7	Mon 24/10/21	Tue 24/10/22	15 days	0	38
40	SHT.A05~SHT.A06A,1500PC,B,L=13.12,D=3.15	66 days	Tue 24/10/8	Thu 24/12/12	Tue 24/10/8	Thu 24/12/12	Wed 24/10/23	Fri 24/12/27	15 days		
41	TTA Implementation	4 days	Tue 24/10/8	Fri 24/10/11	Tue 24/10/8	Fri 24/10/11	Wed 24/10/23	Sat 24/10/26	15 days	0	39
42	Breaking Ground	14 days	Thu 24/10/10	Wed 24/10/23	Thu 24/10/10	Wed 24/10/23	Fri 24/10/25	Thu 24/11/7	15 days	1	41FS-2 days
43	Excavation and Lateral Support	16 days	Tue 24/10/22	Wed 24/11/6	Tue 24/10/22	Wed 24/11/6	Wed 24/11/6	Thu 24/11/21	15 days	2	42FS-2 days



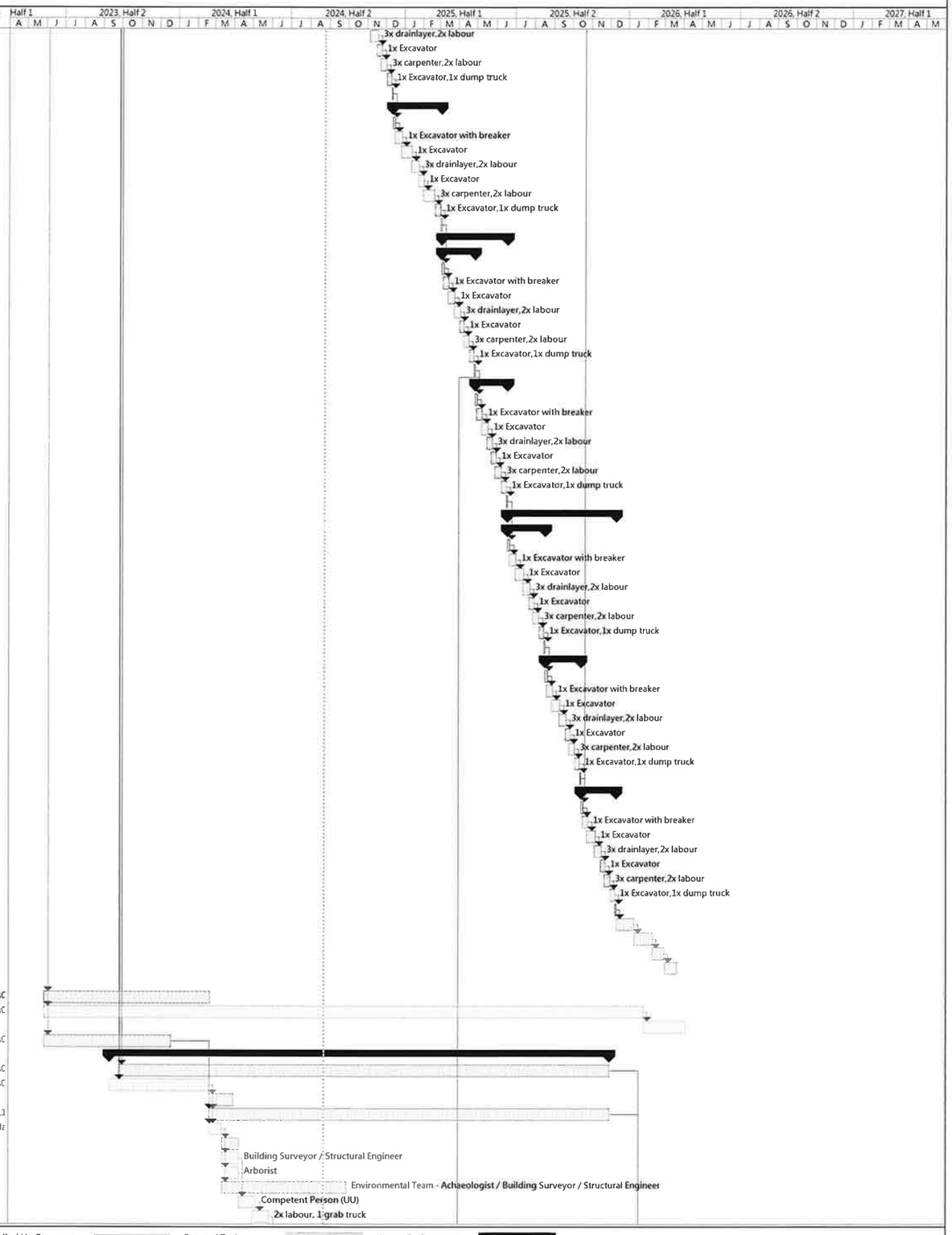
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
44	**Drain Laying**	**14 days**	**Tue 24/11/5**	**Mon 24/11/18**	**Tue 24/11/5**	**Mon 24/11/18**	Wed 24/11/20	**Tue 24/12/3**	**15 days**	**2**	43FS-2 days
45	Bedding and Backfilling	8 days	Sun 24/11/17	Sun 24/11/24	Sun 24/11/17	Sun 24/11/24	Mon 24/12/2	Mon 24/12/9	15 days	0	44FS-2 days
46	Manhole Construction	10 days	Sat 24/11/23	Mon 24/12/2	Sat 24/11/23	Mon 24/12/2	Sun 24/12/8	Tue 24/12/17	15 days	1	45FS-2 days
47	Reinstatement	8 days	Tue 24/12/3	Tue 24/12/10	Tue 24/12/3	Tue 24/12/10	Wed 24/12/18	Wed 24/12/25	15 days	0	46
48	TTA Removal	2 days	Wed 24/12/11	Thu 24/12/12	Wed 24/12/11	Thu 24/12/12	Thu 24/12/26	Fri 24/12/27	15 days	0	47
49	**SHT.A03~SHT.A3A,1500PC,B,L=8.59,D=3.65**	**82 days**	**Fri 24/12/13**	**Tue 25/3/4**	**Fri 24/12/13**	**Tue 25/3/4**	**Sat 24/12/28**	**Wed 25/3/19**	**15 days**		
50	TTA Implementation	4 days	Fri 24/12/13	Mon 24/12/16	Fri 24/12/13	Mon 24/12/16	Sat 24/12/28	Tue 24/12/31	15 days	0	48
51	Breaking Ground	14 days	Sun 24/12/15	Sat 24/12/28	Sun 24/12/15	Sat 24/12/28	Mon 24/12/30	Sun 25/1/12	15 days	1	50FS-2 days
52	Excavation and Lateral Support	18 days	Fri 24/12/27	Mon 25/1/13	Fri 24/12/27	Mon 25/1/13	Sat 25/1/11	Tue 25/1/28	15 days	2	51FS-2 days
53	Drain Laying	14 days	Sun 25/1/12	Sat 25/1/25	Sun 25/1/12	Sat 25/1/25	Mon 25/1/27	Sun 25/2/9	15 days	2	52FS-2 days
54	Bedding and Backfilling	10 days	Fri 25/1/24	Sun 25/2/2	Fri 25/1/24	Sun 25/2/2	Sat 25/2/8	Mon 25/2/17	15 days	0	53FS-2 days
55	Manhole Construction	20 days	Sat 25/2/1	Thu 25/2/20	Sat 25/2/1	Thu 25/2/20	Sun 25/2/16	Fri 25/3/7	15 days	1	54FS-2 days
56	Reinstatement	10 days	Fri 25/2/21	Sun 25/3/2	Fri 25/2/21	Sun 25/3/2	Sat 25/3/8	Mon 25/3/17	15 days	0	55
57	TTA Removal	2 days	Mon 25/3/3	Tue 25/3/4	Mon 25/3/3	Tue 25/3/4	Tue 25/3/18	Wed 25/3/19	15 days	0	56
58	**SHT.A02~SHT.A03,1500PC,T,L=32.82,D=3.6**	**107 days**	**Wed 25/3/5**	**Thu 25/6/19**	**Wed 25/3/5**	**Thu 25/6/19**	**Thu 25/3/20**	**Fri 25/7/4**	**15 days**		
59	**Stage 1**	**55 days**	**Wed 25/3/5**	**Mon 25/4/28**	**Wed 25/3/5**	**Mon 25/4/28**	**Thu 25/3/20**	**Tue 25/5/13**	**15 days**		
60	TTA Implementation	4 days	Wed 25/3/5	Sat 25/3/8	Wed 25/3/5	Sat 25/3/8	Thu 25/3/20	Sun 25/3/23	15 days	0	57
61	Breaking Ground	10 days	Fri 25/3/7	Sun 25/3/16	Fri 25/3/7	Sun 25/3/16	Sat 25/3/22	Mon 25/3/31	15 days	1	60FS-2 days
62	Excavation and Lateral Support	12 days	Sat 25/3/15	Wed 25/3/26	Sat 25/3/15	Wed 25/3/26	Sun 25/3/30	Thu 25/4/10	15 days	2	61FS-2 days
63	Drain Laying	11 days	Tue 25/3/25	Fri 25/4/4	Tue 25/3/25	Fri 25/4/4	Wed 25/4/9	Sat 25/4/19	15 days	2	62FS-2 days
64	Bedding and Backfilling	8 days	Thu 25/4/3	Thu 25/4/10	Thu 25/4/3	Thu 25/4/10	Fri 25/4/18	Fri 25/4/25	15 days	0	63FS-2 days
65	Manhole Construction	10 days	Wed 25/4/9	Fri 25/4/18	Wed 25/4/9	Fri 25/4/18	Thu 25/4/24	Sat 25/5/3	15 days	1	64FS-2 days
66	Reinstatement	8 days	Sat 25/4/19	Sat 25/4/26	Sat 25/4/19	Sat 25/4/26	Sun 25/5/4	Sun 25/5/11	15 days	0	65
67	TTA Removal	2 days	Sun 25/4/27	Mon 25/4/28	Sun 25/4/27	Mon 25/4/28	Mon 25/5/12	Tue 25/5/13	15 days	0	66
68	**Stage 2**	**52 days**	**Tue 25/4/29**	**Thu 25/6/19**	**Tue 25/4/29**	**Thu 25/6/19**	**Wed 25/5/14**	**Fri 25/7/4**	**15 days**		
69	TTA Implementation	4 days	Tue 25/4/29	Fri 25/5/2	Tue 25/4/29	Fri 25/5/2	Wed 25/5/14	Sat 25/5/17	15 days	0	67
70	Breaking Ground	10 days	Thu 25/5/1	Sat 25/5/10	Thu 25/5/1	Sat 25/5/10	Fri 25/5/16	Sun 25/5/25	15 days	0	69FS-2 days
71	Excavation and Lateral Support	11 days	Fri 25/5/9	Mon 25/5/19	Fri 25/5/9	Mon 25/5/19	Sat 25/5/24	Tue 25/6/3	15 days	2	70FS-2 days
72	Drain Laying	9 days	Sun 25/5/18	Mon 25/5/26	Sun 25/5/18	Mon 25/5/26	Mon 25/6/2	Tue 25/6/10	15 days	2	71FS-2 days
73	Bedding and Backfilling	8 days	Sun 25/5/25	Sun 25/6/1	Sun 25/5/25	Sun 25/6/1	Mon 25/6/9	Mon 25/6/16	15 days	0	72FS-2 days
74	Manhole Construction	10 days	Sat 25/5/31	Mon 25/6/9	Sat 25/5/31	Mon 25/6/9	Sun 25/6/15	Tue 25/6/24	15 days	0	73FS-2 days
75	Reinstatement	8 days	Tue 25/6/10	Tue 25/6/17	Tue 25/6/10	Tue 25/6/17	Wed 25/6/25	Wed 25/7/2	15 days	0	74
76	TTA Removal	2 days	Wed 25/6/18	Thu 25/6/19	Wed 25/6/18	Thu 25/6/19	Thu 25/7/3	Fri 25/7/4	15 days	0	75
77	**SHT.A04~SHT.A05,1500PC,B,L=81.31,D=3.44**	**176 days**	**Fri 25/6/20**	**Fri 25/12/12**	**Fri 25/6/20**	**Fri 25/12/12**	**Sat 25/7/5**	**Sat 25/12/27**	**15 days**		
78	**Stage 1**	**60 days**	**Fri 25/6/20**	**Mon 25/8/18**	**Fri 25/6/20**	**Mon 25/8/18**	**Sat 25/7/5**	**Tue 25/9/2**	**15 days**		
79	TTA Implementation	4 days	Fri 25/6/20	Mon 25/6/23	Fri 25/6/20	Mon 25/6/23	Sat 25/7/5	Tue 25/7/8	15 days	0	76
80	Breaking Ground	12 days	Sun 25/6/22	Thu 25/7/3	Sun 25/6/22	Thu 25/7/3	Mon 25/7/7	Fri 25/7/18	15 days	1	79FS-2 days
81	Excavation and Lateral Support	14 days	Wed 25/7/2	Tue 25/7/15	Wed 25/7/2	Tue 25/7/15	Thu 25/7/17	Wed 25/7/30	15 days	2	80FS-2 days
82	Drain Laying	12 days	Mon 25/7/14	Fri 25/7/25	Mon 25/7/14	Fri 25/7/25	Tue 25/7/29	Sat 25/8/9	15 days	2	81FS-2 days
83	Bedding and Backfilling	8 days	Thu 25/7/24	Thu 25/7/31	Thu 25/7/24	Thu 25/7/31	Fri 25/8/8	Fri 25/8/15	15 days	0	82FS-2 days
84	Manhole Construction	10 days	Wed 25/7/30	Fri 25/8/8	Wed 25/7/30	Fri 25/8/8	Thu 25/8/14	Sat 25/8/23	15 days	1	83FS-2 days
85	Reinstatement	8 days	Sat 25/8/9	Sat 25/8/16	Sat 25/8/9	Sat 25/8/16	Sun 25/8/24	Sun 25/8/31	15 days	0	84
86	TTA Removal	2 days	Sun 25/8/17	Mon 25/8/18	Sun 25/8/17	Mon 25/8/18	Mon 25/9/1	Tue 25/9/2	15 days	0	85
87	**Stage 2**	**58 days**	**Tue 25/8/19**	**Wed 25/10/15**	**Tue 25/8/19**	**Wed 25/10/15**	**Wed 25/9/3**	**Thu 25/10/30**	**15 days**		
88	TTA Implementation	4 days	Tue 25/8/19	Fri 25/8/22	Tue 25/8/19	Fri 25/8/22	Wed 25/9/3	Sat 25/9/6	15 days	0	86
89	Breaking Ground	10 days	Thu 25/8/21	Sat 25/8/30	Thu 25/8/21	Sat 25/8/30	Fri 25/9/5	Sun 25/9/14	15 days	1	88FS-2 days
90	Excavation and Lateral Support	14 days	Fri 25/8/29	Thu 25/9/11	Fri 25/8/29	Thu 25/9/11	Sat 25/9/13	Fri 25/9/26	15 days	2	89FS-2 days
91	Drain Laying	12 days	Wed 25/9/10	Sun 25/9/21	Wed 25/9/10	Sun 25/9/21	Thu 25/9/25	Mon 25/10/6	15 days	2	90FS-2 days
92	Bedding and Backfilling	8 days	Sat 25/9/20	Sat 25/9/27	Sat 25/9/20	Sat 25/9/27	Sun 25/10/5	Sun 25/10/12	15 days	0	91FS-2 days
93	Manhole Construction	10 days	Fri 25/9/26	Sun 25/10/5	Fri 25/9/26	Sun 25/10/5	Sat 25/10/11	Mon 25/10/20	15 days	1	92FS-2 days
94	Reinstatement	8 days	Mon 25/10/6	Mon 25/10/13	Mon 25/10/6	Mon 25/10/13	Tue 25/10/21	Tue 25/10/28	15 days	0	93
95	TTA Removal	2 days	Tue 25/10/14	Wed 25/10/15	Tue 25/10/14	Wed 25/10/15	Wed 25/10/29	Thu 25/10/30	15 days	0	94
96	**Stage 3**	**58 days**	**Thu 25/10/16**	**Fri 25/12/12**	**Thu 25/10/16**	**Fri 25/12/12**	**Fri 25/10/31**	**Sat 25/12/27**	**15 days**		
97	TTA Implementation	4 days	Thu 25/10/16	Sun 25/10/19	Thu 25/10/16	Sun 25/10/19	Fri 25/10/31	Mon 25/11/3	15 days	0	95,6,8
98	Breaking Ground	10 days	Sat 25/10/18	Mon 25/10/27	Sat 25/10/18	Mon 25/10/27	Sun 25/11/2	Tue 25/11/11	15 days	1	97FS-2 days
99	Excavation and Lateral Support	14 days	Sun 25/10/26	Sat 25/11/8	Sun 25/10/26	Sat 25/11/8	Mon 25/11/10	Sun 25/11/23	15 days	2	98FS-2 days
100	Drain Laying	12 days	Fri 25/11/7	Tue 25/11/18	Fri 25/11/7	Tue 25/11/18	Sat 25/11/22	Wed 25/12/3	15 days	2	99FS-2 days
101	Bedding and Backfilling	8 days	Mon 25/11/17	Mon 25/11/24	Mon 25/11/17	Mon 25/11/24	Tue 25/12/2	Tue 25/12/9	15 days	0	100FS-2 days
102	Manhole Construction	10 days	Sun 25/11/23	Tue 25/12/2	Sun 25/11/23	Tue 25/12/2	Mon 25/12/8	Wed 25/12/17	15 days	1	101FS-2 days
103	Reinstatement	8 days	Wed 25/12/3	Wed 25/12/10	Wed 25/12/3	Wed 25/12/10	Thu 25/12/18	Thu 25/12/25	15 days	0	102
104	TTA Removal	2 days	Thu 25/12/11	Fri 25/12/12	Thu 25/12/11	Fri 25/12/12	Fri 25/12/26	Sat 25/12/27	15 days	0	103
105	Connection of ex. 900pipe to SHT.A05	30 days	Sat 25/12/13	Sun 26/1/11	Sat 25/12/13	Sun 26/1/11	Sun 25/12/28	Mon 26/1/26	15 days	0	104
106	Connection of ex. 900pipe to SHT.A06A	30 days	Mon 26/1/12	Tue 26/2/10	Mon 26/1/12	Tue 26/2/10	Tue 26/1/27	Wed 26/2/25	15 days	0	105
107	CCTV inspection	20 days	Wed 26/2/11	Mon 26/3/2	Wed 26/2/11	Mon 26/3/2	Thu 26/2/26	Tue 26/3/17	15 days	0	106
108	Reinstatement	20 days	Tue 26/3/3	Sun 26/3/22	Tue 26/3/3	Sun 26/3/22	Wed 26/3/18	Mon 26/4/6	15 days	0	107
109											
110	access date of Portion E2	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/5/2	Mon 26/1/26	703 days	0	\\WingTatNasC
111	section V (Shan Ha Tsuen)	973 days	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	Tue 23/5/30	Mon 26/1/26	0 days	0	\\WingTatNasC
112	Planned Completion Day	70 days	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	Tue 26/1/27	Mon 26/4/6	0 days	0	111
113	Early Access (partial) [A]	205 days	Tue 23/5/30	Wed 23/12/20	Tue 23/5/30	Wed 23/12/20	Thu 23/8/3	Fri 24/2/23	65 days	0	\\WingTatNasC
114	**Site Establishment**	**812 days**	**Tue 23/9/12**	**Mon 25/12/1**	**Tue 23/9/12**	**Mon 25/12/1**	**Tue 23/9/12**	**Mon 26/10/5**	**0 days**		
115	Prepare and Accept Temp. Works Design and Method Statement [A]	798 days	Tue 23/9/26	Mon 25/12/1	Tue 23/9/26	Mon 25/12/1	Mon 23/11/13	Sun 26/1/18	48 days	0	\\WingTatNasC
116	Public Liaison and Negotiation with Village Rep.	164 days	Tue 23/9/12	Thu 24/2/22	Tue 23/9/12	Thu 24/2/22	Tue 23/9/12	Thu 24/2/22	0 days	0	\\WingTatNasC
117	[NCExxx] Objection and additional request of local landlord	40 days	Fri 24/2/23	Tue 24/4/2	Fri 24/2/23	Tue 24/4/2	Thu 26/8/27	Mon 26/10/5	916 days		116
118	Initial Survey [A]	648 days	Fri 24/2/23	Mon 25/12/1	Fri 24/2/23	Mon 25/12/1	Thu 24/4/11	Sun 26/1/18	48 days	0	113FS-1 day,11
119	Initial Safety & Environmental measures [A]	21 days	Fri 24/2/23	Thu 24/3/14	Fri 24/2/23	Thu 24/3/14	Fri 24/2/23	Thu 24/3/14	0 days	0	116,113FS-1 da
120	Setup of instrumentation and monitoring [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Tue 26/9/8	Mon 26/10/5	907 days	0	119
121	Condition Survey [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	0 days	0	119
122	Tree Survey [A]	28 days	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	Fri 24/3/15	Thu 24/4/11	0 days	0	119
123	Built Heritage Survey [A]	200 days	Fri 24/3/15	Mon 24/9/30	Fri 24/3/15	Mon 24/9/30	Fri 26/3/20	Mon 26/10/5	735 days	0	119
124	UU detection [A]	28 days	Fri 24/4/12	Thu 24/5/9	Fri 24/4/12	Thu 24/5/9	Fri 24/4/12	Thu 24/5/9	0 days	0	121,122
125	Site Clearance [A]	28 days	Fri 24/5/3	Thu 24/5/30	Fri 24/5/3	Thu 24/5/30	Fri 24/5/3	Thu 24/5/30	0 days	0	124FS-7 days



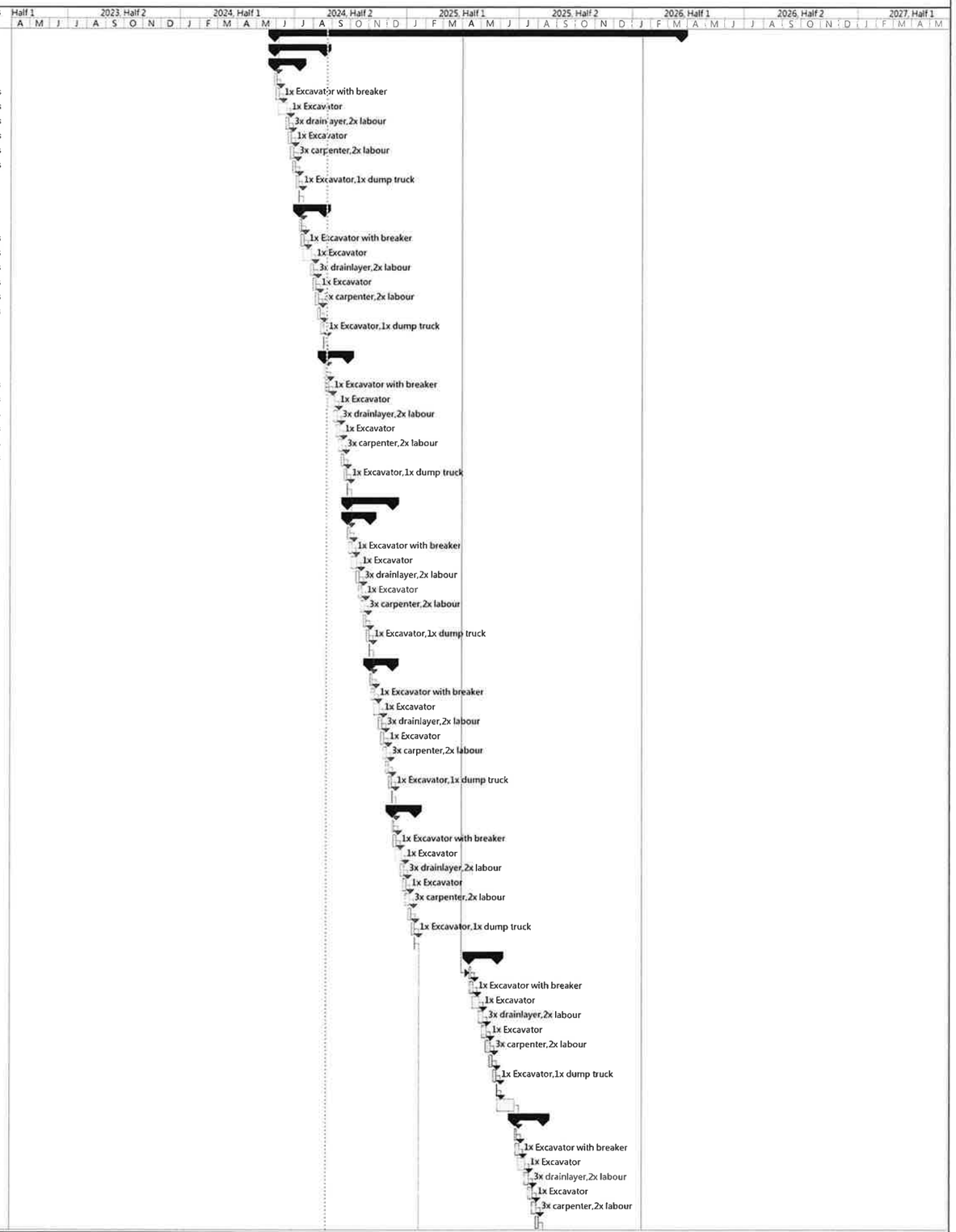
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
126	**Drain Laying Works (West)**	**661 days**	**Fri 24/5/31**	**Sun 26/3/22**	**Fri 24/5/31**	**Sun 26/3/22**	**Fri 24/5/31**	**Mon 26/4/6**	**0 days**		
127	SHT.B02~SHT.B03,900PC,B,L=36.94,D=1.72	82 days	Fri 24/5/31	Tue 24/8/20	Fri 24/5/31	Tue 24/8/20	Fri 24/5/31	Tue 24/8/20	0 days		
128	Stage 1	41 days	Fri 24/5/31	Wed 24/7/10	Fri 24/5/31	Wed 24/7/10	Fri 24/5/31	Wed 24/7/10	0 days		
129	TTA implementation [A]	4 days	Fri 24/5/31	Mon 24/6/3	Fri 24/5/31	Mon 24/6/3	Fri 24/5/31	Mon 24/6/3	0 days	0	125
130	Breaking pavement [A]	6 days	Sun 24/6/2	Fri 24/6/7	Sun 24/6/2	Fri 24/6/7	Sun 24/6/2	Fri 24/6/7	0 days	0	129FS-2 days
131	Excavation and Lateral Support [A]	14 days	Thu 24/6/6	Wed 24/6/19	Thu 24/6/6	Wed 24/6/19	Thu 24/6/6	Wed 24/6/19	0 days	0	130FS-2 days
132	Manhole bedding construction [A]	6 days	Tue 24/6/18	Sun 24/6/23	Tue 24/6/18	Sun 24/6/23	Tue 24/6/18	Sun 24/6/23	0 days	0	131FS-2 days
133	Drain Laying [A]	6 days	Sat 24/6/22	Thu 24/6/27	Sat 24/6/22	Thu 24/6/27	Sat 24/6/22	Thu 24/6/27	0 days	0	132FS-2 days
134	Manhole construction [A]	6 days	Wed 24/6/26	Mon 24/7/1	Wed 24/6/26	Mon 24/7/1	Wed 24/6/26	Mon 24/7/1	0 days	0	133FS-2 days
135	Backfilling and Compaction [A]	5 days	Sun 24/6/30	Thu 24/7/4	Sun 24/6/30	Thu 24/7/4	Sun 24/6/30	Thu 24/7/4	0 days	0	134FS-2 days
136	Reinstatement [A]	5 days	Fri 24/7/5	Tue 24/7/9	Fri 24/7/5	Tue 24/7/9	Fri 24/7/5	Tue 24/7/9	0 days	0	135
137	TTA removal [A]	1 day	Wed 24/7/10	Wed 24/7/10	Wed 24/7/10	Wed 24/7/10	Wed 24/7/10	Wed 24/7/10	0 days	0	136
138	Stage 2	41 days	Thu 24/7/11	Tue 24/8/20	Thu 24/7/11	Tue 24/8/20	Thu 24/7/11	Tue 24/8/20	0 days		
139	TTA implementation [A]	4 days	Thu 24/7/11	Sun 24/7/14	Thu 24/7/11	Sun 24/7/14	Thu 24/7/11	Sun 24/7/14	0 days	0	137
140	Breaking pavement [A]	6 days	Sat 24/7/13	Thu 24/7/18	Sat 24/7/13	Thu 24/7/18	Sat 24/7/13	Thu 24/7/18	0 days	0	139FS-2 days
141	Excavation and Lateral Support [A]	14 days	Wed 24/7/17	Tue 24/7/30	Wed 24/7/17	Tue 24/7/30	Wed 24/7/17	Tue 24/7/30	0 days	0	140FS-2 days
142	Manhole bedding construction [A]	6 days	Mon 24/7/29	Sat 24/8/3	Mon 24/7/29	Sat 24/8/3	Mon 24/7/29	Sat 24/8/3	0 days	0	141FS-2 days
143	Drain Laying [A]	6 days	Fri 24/8/2	Wed 24/8/7	Fri 24/8/2	Wed 24/8/7	Fri 24/8/2	Wed 24/8/7	0 days	0	142FS-2 days
144	Manhole construction [A]	6 days	Tue 24/8/6	Sun 24/8/11	Tue 24/8/6	Sun 24/8/11	Tue 24/8/6	Sun 24/8/11	0 days	0	143FS-2 days
145	Backfilling and Compaction [A]	5 days	Sat 24/8/10	Wed 24/8/14	Sat 24/8/10	Wed 24/8/14	Sat 24/8/10	Wed 24/8/14	0 days	0	144FS-2 days
146	Reinstatement	5 days	Thu 24/8/15	Mon 24/8/19	Thu 24/8/15	Mon 24/8/19	Thu 24/8/15	Mon 24/8/19	0 days	0	145
147	TTA removal	1 day	Tue 24/8/20	Tue 24/8/20	Tue 24/8/20	Tue 24/8/20	Tue 24/8/20	Tue 24/8/20	0 days	0	146
148	SHT.B03~SHT.B04,900PC,B,L=21,D=1.97	39 days	Wed 24/8/21	Sat 24/9/28	Wed 24/8/21	Sat 24/9/28	Wed 24/8/21	Sat 24/9/28	0 days		
149	TTA implementation [A]	4 days	Wed 24/8/21	Sat 24/8/24	Wed 24/8/21	Sat 24/8/24	Wed 24/8/21	Sat 24/8/24	0 days	0	147
150	Breaking pavement [A]	6 days	Fri 24/8/23	Wed 24/8/28	Fri 24/8/23	Wed 24/8/28	Fri 24/8/23	Wed 24/8/28	0 days	0	149FS-2 days
151	Excavation and Lateral Support	12 days	Tue 24/8/27	Sat 24/9/7	Tue 24/8/27	Sat 24/9/7	Tue 24/8/27	Sat 24/9/7	0 days	0	150FS-2 days
152	Manhole bedding construction	6 days	Fri 24/9/6	Wed 24/9/11	Fri 24/9/6	Wed 24/9/11	Fri 24/9/6	Wed 24/9/11	0 days	0	151FS-2 days
153	Drain Laying	6 days	Tue 24/9/10	Sun 24/9/15	Tue 24/9/10	Sun 24/9/15	Tue 24/9/10	Sun 24/9/15	0 days	0	152FS-2 days
154	Manhole construction	6 days	Sat 24/9/14	Thu 24/9/19	Sat 24/9/14	Thu 24/9/19	Sat 24/9/14	Thu 24/9/19	0 days	0	153FS-2 days
155	Backfilling and Compaction	5 days	Wed 24/9/18	Sun 24/9/22	Wed 24/9/18	Sun 24/9/22	Wed 24/9/18	Sun 24/9/22	0 days	0	154FS-2 days
156	Reinstatement	5 days	Mon 24/9/23	Fri 24/9/27	Mon 24/9/23	Fri 24/9/27	Mon 24/9/23	Fri 24/9/27	0 days	0	155
157	TTA removal	1 day	Sat 24/9/28	Sat 24/9/28	Sat 24/9/28	Sat 24/9/28	Sat 24/9/28	Sat 24/9/28	0 days	0	156
158	SHT.B01~SHT.B02,900PC,B,L=61.6,D=1.59	74 days	Sun 24/9/29	Wed 24/12/11	Sun 24/9/29	Wed 24/12/11	Sun 24/9/29	Wed 24/12/11	0 days		
159	Stage 1	37 days	Sun 24/9/29	Mon 24/11/4	Sun 24/9/29	Mon 24/11/4	Sun 24/9/29	Mon 24/11/4	0 days		
160	TTA implementation	4 days	Sun 24/9/29	Wed 24/10/2	Sun 24/9/29	Wed 24/10/2	Sun 24/9/29	Wed 24/10/2	0 days	0	157
161	Breaking pavement	6 days	Tue 24/10/1	Sun 24/10/6	Tue 24/10/1	Sun 24/10/6	Tue 24/10/1	Sun 24/10/6	0 days	0	160FS-2 days
162	Excavation and Lateral Support	10 days	Sat 24/10/5	Mon 24/10/14	Sat 24/10/5	Mon 24/10/14	Sat 24/10/5	Mon 24/10/14	0 days	0	161FS-2 days
163	Manhole bedding construction	6 days	Sun 24/10/13	Fri 24/10/18	Sun 24/10/13	Fri 24/10/18	Sun 24/10/13	Fri 24/10/18	0 days	0	162FS-2 days
164	Drain Laying	6 days	Thu 24/10/17	Tue 24/10/22	Thu 24/10/17	Tue 24/10/22	Thu 24/10/17	Tue 24/10/22	0 days	0	163FS-2 days
165	Manhole construction	6 days	Mon 24/10/21	Sat 24/10/26	Mon 24/10/21	Sat 24/10/26	Mon 24/10/21	Sat 24/10/26	0 days	0	164FS-2 days
166	Backfilling and Compaction	5 days	Fri 24/10/25	Tue 24/10/29	Fri 24/10/25	Tue 24/10/29	Fri 24/10/25	Tue 24/10/29	0 days	0	165FS-2 days
167	Reinstatement	5 days	Wed 24/10/30	Sun 24/11/3	Wed 24/10/30	Sun 24/11/3	Wed 24/10/30	Sun 24/11/3	0 days	0	166
168	TTA removal	1 day	Mon 24/11/4	Mon 24/11/4	Mon 24/11/4	Mon 24/11/4	Mon 24/11/4	Mon 24/11/4	0 days	0	167
169	Stage 2	37 days	Tue 24/11/5	Wed 24/12/11	Tue 24/11/5	Wed 24/12/11	Tue 24/11/5	Wed 24/12/11	0 days		
170	TTA implementation	4 days	Tue 24/11/5	Fri 24/11/8	Tue 24/11/5	Fri 24/11/8	Tue 24/11/5	Fri 24/11/8	0 days	0	168
171	Breaking pavement	6 days	Thu 24/11/7	Tue 24/11/12	Thu 24/11/7	Tue 24/11/12	Thu 24/11/7	Tue 24/11/12	0 days	0	170FS-2 days
172	Excavation and Lateral Support	10 days	Mon 24/11/11	Wed 24/11/20	Mon 24/11/11	Wed 24/11/20	Mon 24/11/11	Wed 24/11/20	0 days	0	171FS-2 days
173	Manhole bedding construction	6 days	Tue 24/11/19	Sun 24/11/24	Tue 24/11/19	Sun 24/11/24	Tue 24/11/19	Sun 24/11/24	0 days	0	172FS-2 days
174	Drain Laying	6 days	Sat 24/11/23	Thu 24/11/28	Sat 24/11/23	Thu 24/11/28	Sat 24/11/23	Thu 24/11/28	0 days	0	173FS-2 days
175	Manhole construction	6 days	Wed 24/11/27	Mon 24/12/2	Wed 24/11/27	Mon 24/12/2	Wed 24/11/27	Mon 24/12/2	0 days	0	174FS-2 days
176	Backfilling and Compaction	5 days	Sun 24/12/1	Thu 24/12/5	Sun 24/12/1	Thu 24/12/5	Sun 24/12/1	Thu 24/12/5	0 days	0	175FS-2 days
177	Reinstatement	5 days	Fri 24/12/6	Tue 24/12/10	Fri 24/12/6	Tue 24/12/10	Fri 24/12/6	Tue 24/12/10	0 days	0	176
178	TTA removal	1 day	Wed 24/12/11	Wed 24/12/11	Wed 24/12/11	Wed 24/12/11	Wed 24/12/11	Wed 24/12/11	0 days	0	177
179	SHT.CP2~SHT.B01,900PC,B,L=10.36,D=1.59	37 days	Thu 24/12/12	Fri 25/1/17	Thu 24/12/12	Fri 25/1/17	Thu 24/12/12	Fri 25/1/17	0 days		
180	TTA implementation	3 days	Thu 24/12/12	Sat 24/12/14	Thu 24/12/12	Sat 24/12/14	Thu 24/12/12	Sat 24/12/14	0 days	0	178
181	Breaking pavement	6 days	Fri 24/12/13	Wed 24/12/18	Fri 24/12/13	Wed 24/12/18	Fri 24/12/13	Wed 24/12/18	0 days	0	180FS-2 days
182	Excavation and Lateral Support	10 days	Tue 24/12/17	Thu 24/12/26	Tue 24/12/17	Thu 24/12/26	Tue 24/12/17	Thu 24/12/26	0 days	0	181FS-2 days
183	Manhole bedding construction	6 days	Wed 24/12/25	Mon 24/12/30	Wed 24/12/25	Mon 24/12/30	Wed 24/12/25	Mon 24/12/30	0 days	0	182FS-2 days
184	Drain Laying	6 days	Sun 24/12/29	Fri 25/1/3	Sun 24/12/29	Fri 25/1/3	Sun 24/12/29	Fri 25/1/3	0 days	0	183FS-2 days
185	Manhole construction	7 days	Thu 25/1/2	Wed 25/1/8	Thu 25/1/2	Wed 25/1/8	Thu 25/1/2	Wed 25/1/8	0 days	0	184FS-2 days
186	Backfilling and Compaction	5 days	Tue 25/1/7	Sat 25/1/11	Tue 25/1/7	Sat 25/1/11	Tue 25/1/7	Sat 25/1/11	0 days	0	185FS-2 days
187	Reinstatement	5 days	Sun 25/1/12	Thu 25/1/16	Sun 25/1/12	Thu 25/1/16	Sun 25/1/12	Thu 25/1/16	0 days	0	186
188	TTA removal	1 day	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	Fri 25/1/17	0 days	0	187
189	SHT.B04~SHT.A1A,900PC,B,L=13.155D=2.06	46 days	Tue 25/4/15	Fri 25/5/30	Tue 25/4/15	Fri 25/5/30	Wed 25/4/30	Sat 25/6/14	15 days		
190	TTA implementation	3 days	Tue 25/4/15	Thu 25/4/17	Tue 25/4/15	Thu 25/4/17	Wed 25/4/30	Fri 25/5/2	15 days	0	67FS-14 days
191	Breaking pavement	6 days	Wed 25/4/16	Mon 25/4/21	Wed 25/4/16	Mon 25/4/21	Thu 25/5/1	Tue 25/5/6	15 days	0	190FS-2 days
192	Excavation and Lateral Support	12 days	Sun 25/4/20	Thu 25/5/1	Sun 25/4/20	Thu 25/5/1	Mon 25/5/5	Fri 25/5/16	15 days	0	191FS-2 days
193	Manhole bedding construction	8 days	Wed 25/4/30	Wed 25/5/7	Wed 25/4/30	Wed 25/5/7	Thu 25/5/15	Thu 25/5/22	15 days	0	192FS-2 days
194	Drain Laying	8 days	Tue 25/5/6	Tue 25/5/13	Tue 25/5/6	Tue 25/5/13	Wed 25/5/21	Wed 25/5/28	15 days	0	193FS-2 days
195	Manhole construction	8 days	Mon 25/5/12	Mon 25/5/19	Mon 25/5/12	Mon 25/5/19	Tue 25/5/27	Tue 25/6/3	15 days	0	194FS-2 days
196	Backfilling and Compaction	6 days	Sun 25/5/18	Fri 25/5/23	Sun 25/5/18	Fri 25/5/23	Mon 25/6/2	Sat 25/6/7	15 days	0	195FS-2 days
197	Reinstatement	6 days	Sat 25/5/24	Thu 25/5/29	Sat 25/5/24	Thu 25/5/29	Sun 25/6/8	Fri 25/6/13	15 days	0	196
198	TTA removal	1 day	Fri 25/5/30	Fri 25/5/30	Fri 25/5/30	Fri 25/5/30	Sat 25/6/14	Sat 25/6/14	15 days	0	197
199	Connection of ex. UC to SHT.A1A	28 days	Sat 25/5/31	Fri 25/6/27	Sat 25/5/31	Fri 25/6/27	Sun 25/6/15	Sat 25/7/12	15 days	0	198
200	SHT.CP1~SHT.A1A,550PC,B,L=4.16,D=2.06	46 days	Sat 25/6/28	Tue 25/8/12	Sat 25/6/28	Tue 25/8/12	Sun 25/7/13	Wed 25/8/27	15 days		
201	TTA implementation	3 days	Sat 25/6/28	Mon 25/6/30	Sat 25/6/28	Mon 25/6/30	Sun 25/7/13	Tue 25/7/15	15 days	0	199
202	Breaking pavement	6 days	Sun 25/6/29	Fri 25/7/4	Sun 25/6/29	Fri 25/7/4	Mon 25/7/14	Sat 25/7/19	15 days	0	201FS-2 days
203	Excavation and Lateral Support	12 days	Thu 25/7/3	Mon 25/7/14	Thu 25/7/3	Mon 25/7/14	Fri 25/7/18	Tue 25/7/29	15 days	0	202FS-2 days
204	Manhole bedding construction	8 days	Sun 25/7/13	Sun 25/7/20	Sun 25/7/13	Sun 25/7/20	Mon 25/7/28	Mon 25/8/4	15 days	0	203FS-2 days
205	Drain Laying	8 days	Sat 25/7/19	Sat 25/7/26	Sat 25/7/19	Sat 25/7/26	Sun 25/8/3	Sun 25/8/10	15 days	0	204FS-2 days
206	Manhole construction	8 days	Fri 25/7/25	Fri 25/8/1	Fri 25/7/25	Fri 25/8/1	Sat 25/8/9	Sat 25/8/16	15 days	0	205FS-2 days
207	Backfilling and Compaction	6 days	Thu 25/7/31	Tue 25/8/5	Thu 25/7/31	Tue 25/8/5	Fri 25/8/15	Wed 25/8/20	15 days	0	206FS-2 days



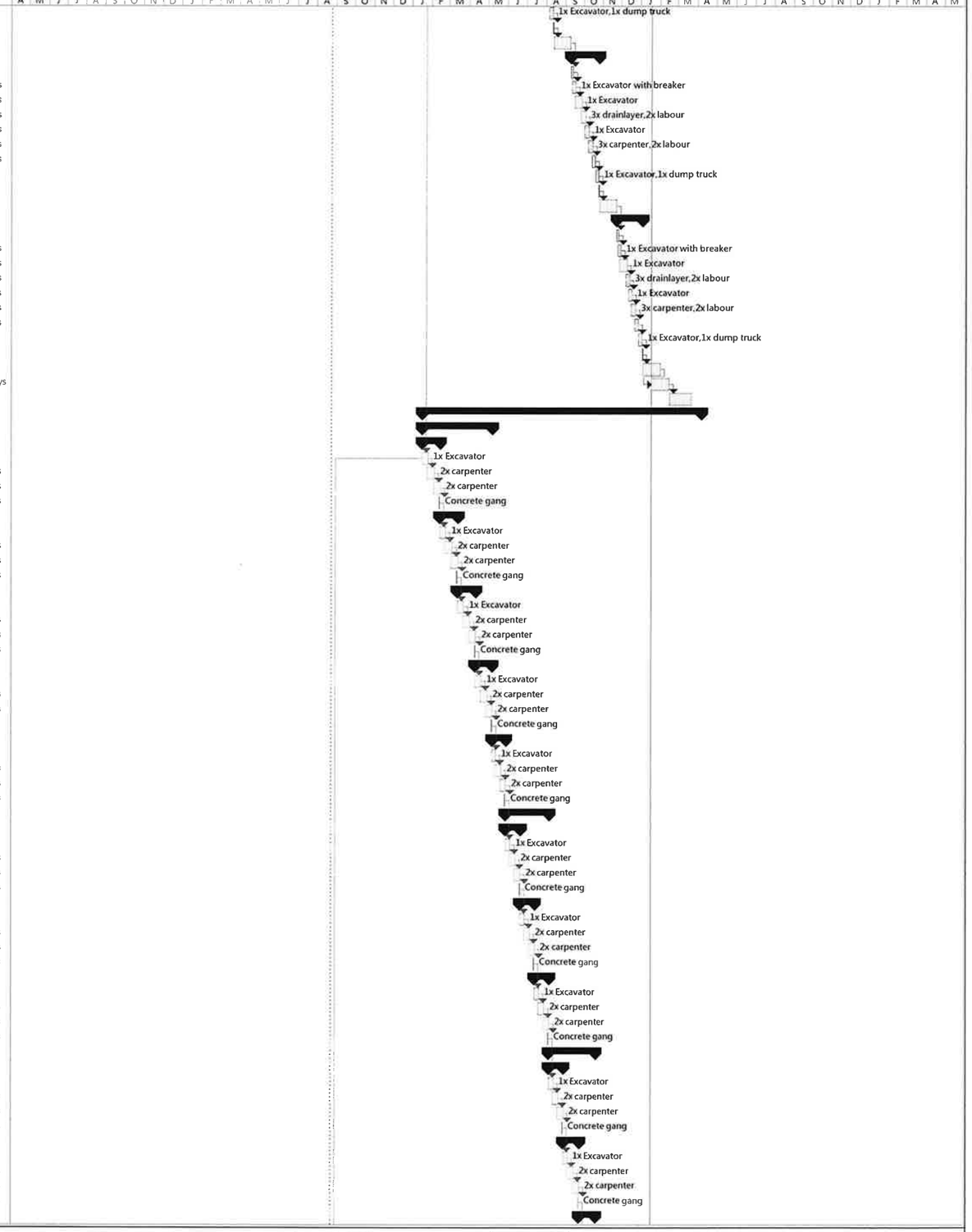
Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
208	Reinstatement	6 days	Wed 25/8/6	Mon 25/8/11	Wed 25/8/6	Mon 25/8/11	Thu 25/8/21	Tue 25/8/26	15 days	0	207
209	TTA removal	1 day	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	Wed 25/8/27	Wed 25/8/27	15 days	0	208
210	Connection of ex. 550pipe to SHT.CP1	28 days	Wed 25/8/13	Tue 25/9/9	Wed 25/8/13	Tue 25/9/9	Thu 25/8/28	Wed 25/9/24	15 days	0	209
211	SHT.A1A~SHT.A01,1200PC,B,L=7.675,D=2.14	47 days	Wed 25/9/10	Sun 25/10/26	Wed 25/9/10	Sun 25/10/26	Thu 25/9/25	##########	15 days		
212	TTA implementation	4 days	Wed 25/9/10	Sat 25/9/13	Wed 25/9/10	Sat 25/9/13	Thu 25/9/25	Sun 25/9/28	15 days	0	210
213	Breaking pavement	6 days	Fri 25/9/12	Wed 25/9/17	Fri 25/9/12	Wed 25/9/17	Sat 25/9/27	Thu 25/10/2	15 days	0	212FS-2 days
214	Excavation and Lateral Support	12 days	Tue 25/9/16	Sat 25/9/27	Tue 25/9/16	Sat 25/9/27	Wed 25/10/1	Sun 25/10/12	15 days	0	213FS-2 days
215	Manhole bedding construction	8 days	Fri 25/9/26	Fri 25/10/3	Fri 25/9/26	Fri 25/10/3	Sat 25/10/11	Sat 25/10/18	15 days	0	214FS-2 days
216	Drain Laying	8 days	Thu 25/10/2	Thu 25/10/9	Thu 25/10/2	Thu 25/10/9	Fri 25/10/17	Fri 25/10/24	15 days	0	215FS-2 days
217	Manhole construction	8 days	Wed 25/10/8	Wed 25/10/15	Wed 25/10/8	Wed 25/10/15	Thu 25/10/23	Thu 25/10/30	15 days	0	216FS-2 days
218	Backfilling and Compaction	6 days	Tue 25/10/14	Sun 25/10/19	Tue 25/10/14	Sun 25/10/19	Wed 25/10/29	Mon 25/11/3	15 days	0	217FS-2 days
219	Reinstatement	6 days	Mon 25/10/20	Sat 25/10/25	Mon 25/10/20	Sat 25/10/25	Tue 25/11/4	Sun 25/11/9	15 days	0	218
220	TTA removal	1 day	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Mon 25/11/10	Mon 25/11/10	15 days	0	219
221	Connection of ex. Pipe to SHT.A01	28 days	Mon 25/10/27	Sun 25/11/23	Mon 25/10/27	Sun 25/11/23	Tue 25/11/11	Mon 25/12/8	15 days	0	220
222	SHT.A01~SHT.A02,1500PC,B,L=8.39,D=3.6	42 days	Mon 25/11/24	Sun 26/1/4	##########	Sun 26/1/4	Tue 25/12/9	Mon 26/1/19	15 days		
223	TTA implementation	4 days	Mon 25/11/24	Thu 25/11/27	Mon 25/11/24	Thu 25/11/27	Tue 25/12/9	Fri 25/12/12	15 days	0	221
224	Breaking pavement	5 days	Wed 25/11/26	Sun 25/11/30	Wed 25/11/26	Sun 25/11/30	Thu 25/12/11	Mon 25/12/15	15 days	0	223FS-2 days
225	Excavation and Lateral Support	12 days	Sat 25/11/29	Wed 25/12/10	Sat 25/11/29	Wed 25/12/10	Sun 25/12/14	Thu 25/12/25	15 days	0	224FS-2 days
226	Drain Laying	6 days	Tue 25/12/9	Sun 25/12/14	Tue 25/12/9	Sun 25/12/14	Wed 25/12/24	Mon 25/12/29	15 days	0	225FS-2 days
227	Bedding and Backfilling	6 days	Sat 25/12/13	Thu 25/12/18	Sat 25/12/13	Thu 25/12/18	Sun 25/12/28	Fri 26/1/2	15 days	0	226FS-2 days
228	Manhole construction	8 days	Wed 25/12/17	Wed 25/12/24	Wed 25/12/17	Wed 25/12/24	Thu 26/1/1	Thu 26/1/8	15 days	0	227FS-2 days
229	Backfilling and Compaction	6 days	Tue 25/12/23	Sun 25/12/28	Tue 25/12/23	Sun 25/12/28	Wed 26/1/7	Mon 26/1/12	15 days	0	228FS-2 days
230	Reinstatement	6 days	Mon 25/12/29	Sat 26/1/3	Mon 25/12/29	Sat 26/1/3	Tue 26/1/13	Sun 26/1/18	15 days	0	229
231	TTA removal	1 day	Sun 26/1/4	Sun 26/1/4	Sun 26/1/4	Sun 26/1/4	Mon 26/1/19	Mon 26/1/19	15 days	0	230
232	Temporary decking over ex. UC	28 days	Mon 26/1/5	Sun 26/2/1	Mon 26/1/5	Sun 26/2/1	Tue 26/1/20	Mon 26/2/16	15 days	0	231
233	CCTV inspection	28 days	Mon 26/1/19	Sun 26/2/15	Mon 26/1/19	Sun 26/2/15	Tue 26/2/3	Mon 26/3/2	15 days	0	232FS-14 days
234	Reinstatement	35 days	Mon 26/2/16	Sun 26/3/22	Mon 26/2/16	Sun 26/3/22	Tue 26/3/3	Mon 26/4/6	15 days	0	233
235	U-Channel Works (West)	445 days	Sat 25/1/18	Tue 26/4/7	Sat 25/1/18	Tue 26/4/7	Sat 25/1/18	Mon 26/10/5	0 days		
236	End~ex. UC,450CU(G),L=70	111 days	Sat 25/1/18	Thu 25/5/8	Sat 25/1/18	Thu 25/5/8	Sat 25/1/18	Thu 25/5/8	0 days		
237	Stage 1	29 days	Sat 25/1/18	Sat 25/2/15	Sat 25/1/18	Sat 25/2/15	Sat 25/1/18	Sat 25/2/15	0 days		
238	Excavation and Lateral Support	10 days	Sat 25/1/18	Mon 25/1/27	Sat 25/1/18	Mon 25/1/27	Sat 25/1/18	Mon 25/1/27	0 days	0	188
239	Formwork Erection	12 days	Sun 25/1/26	Thu 25/2/6	Sun 25/1/26	Thu 25/2/6	Sun 25/1/26	Thu 25/2/6	0 days	0	238FS-2 days
240	Catchpit construcion	11 days	Wed 25/2/5	Sat 25/2/15	Wed 25/2/5	Sat 25/2/15	Wed 25/2/5	Sat 25/2/15	0 days	0	239FS-2 days
241	Concreting	1 day	Fri 25/2/14	Fri 25/2/14	Fri 25/2/14	Fri 25/2/14	Fri 25/2/14	Fri 25/2/14	0 days	0	240FS-2 days
242	Stage 2	29 days	Sat 25/2/15	Sat 25/3/15	Sat 25/2/15	Sat 25/3/15	Sat 25/2/15	Sat 25/3/15	0 days		
243	Excavation and Lateral Support	10 days	Sat 25/2/15	Mon 25/2/24	Sat 25/2/15	Mon 25/2/24	Sat 25/2/15	Mon 25/2/24	0 days	0	241
244	Formwork Erection	12 days	Sun 25/2/23	Thu 25/3/6	Sun 25/2/23	Thu 25/3/6	Sun 25/2/23	Thu 25/3/6	0 days	0	243FS-2 days
245	Catchpit construcion	11 days	Wed 25/3/5	Sat 25/3/15	Wed 25/3/5	Sat 25/3/15	Wed 25/3/5	Sat 25/3/15	0 days	0	244FS-2 days
246	Concreting	1 day	Fri 25/3/14	Fri 25/3/14	Fri 25/3/14	Fri 25/3/14	Fri 25/3/14	Fri 25/3/14	0 days	0	245FS-2 days
247	Stage 3	29 days	Sat 25/3/15	Sat 25/4/12	Sat 25/3/15	Sat 25/4/12	Sat 25/3/15	Sat 25/4/12	0 days		
248	Excavation and Lateral Support	10 days	Sat 25/3/15	Mon 25/3/24	Sat 25/3/15	Mon 25/3/24	Sat 25/3/15	Mon 25/3/24	0 days	0	246
249	Formwork Erection	12 days	Sun 25/3/23	Thu 25/4/3	Sun 25/3/23	Thu 25/4/3	Sun 25/3/23	Thu 25/4/3	0 days	0	248FS-2 days
250	Catchpit construcion	11 days	Wed 25/4/2	Sat 25/4/12	Wed 25/4/2	Sat 25/4/12	Wed 25/4/2	Sat 25/4/12	0 days	0	249FS-2 days
251	Concreting	1 day	Fri 25/4/11	Fri 25/4/11	Fri 25/4/11	Fri 25/4/11	Fri 25/4/11	Fri 25/4/11	0 days	0	250FS-2 days
252	Stage 4	27 days	Sat 25/4/12	Thu 25/5/8	Sat 25/4/12	Thu 25/5/8	Sat 25/4/12	Thu 25/5/8	0 days		
253	Excavation and Lateral Support	10 days	Sat 25/4/12	Mon 25/4/21	Sat 25/4/12	Mon 25/4/21	Sat 25/4/12	Mon 25/4/21	0 days	0	251
254	Formwork Erection	11 days	Sun 25/4/20	Wed 25/4/30	Sun 25/4/20	Wed 25/4/30	Sun 25/4/20	Wed 25/4/30	0 days	0	253FS-2 days
255	Catchpit construcion	10 days	Tue 25/4/29	Thu 25/5/8	Tue 25/4/29	Thu 25/5/8	Tue 25/4/29	Thu 25/5/8	0 days	0	254FS-2 days
256	Concreting	1 day	Thu 25/5/8	Thu 25/5/8	Thu 25/5/8	Thu 25/5/8	Thu 25/5/8	Thu 25/5/8	0 days	0	255FS-1 day
257	SHT.CP2.5~SHT.CP2,300->900CU(G),L=11.4	22 days	Fri 25/5/9	Fri 25/5/30	Fri 25/5/9	Fri 25/5/30	Fri 25/5/9	Fri 25/5/30	0 days		
258	Excavation and Lateral Support	6 days	Fri 25/5/9	Wed 25/5/14	Fri 25/5/9	Wed 25/5/14	Fri 25/5/9	Wed 25/5/14	0 days	0	256
259	Formwork Erection	11 days	Tue 25/5/13	Fri 25/5/23	Tue 25/5/13	Fri 25/5/23	Tue 25/5/13	Fri 25/5/23	0 days	0	258FS-2 days
260	Catchpit construcion	9 days	Thu 25/5/22	Fri 25/5/30	Thu 25/5/22	Fri 25/5/30	Thu 25/5/22	Fri 25/5/30	0 days	0	259FS-2 days
261	Concreting	1 day	Thu 25/5/29	Thu 25/5/29	Thu 25/5/29	Thu 25/5/29	Thu 25/5/29	Thu 25/5/29	0 days	0	260FS-2 days
262	SHT.CP3~SHT.CP2.5,300->900CU(G),L=66.5	70 days	Fri 25/5/30	Thu 25/8/7	Fri 25/5/30	Thu 25/8/7	Fri 25/5/30	Thu 25/8/7	0 days		
263	Stage 1	24 days	Fri 25/5/30	Sun 25/6/22	Fri 25/5/30	Sun 25/6/22	Fri 25/5/30	Sun 25/6/22	0 days		
264	Excavation and Lateral Support	8 days	Fri 25/5/30	Fri 25/6/6	Fri 25/5/30	Fri 25/6/6	Fri 25/5/30	Fri 25/6/6	0 days	0	261
265	Formwork Erection	10 days	Thu 25/6/5	Sat 25/6/14	Thu 25/6/5	Sat 25/6/14	Thu 25/6/5	Sat 25/6/14	0 days	0	264FS-2 days
266	Catchpit construcion	10 days	Fri 25/6/13	Sun 25/6/22	Fri 25/6/13	Sun 25/6/22	Fri 25/6/13	Sun 25/6/22	0 days	0	265FS-2 days
267	Concreting	1 day	Sat 25/6/21	Sat 25/6/21	Sat 25/6/21	Sat 25/6/21	Sat 25/6/21	Sat 25/6/21	0 days	0	266FS-2 days
268	Stage 2	24 days	Sun 25/6/22	Tue 25/7/15	Sun 25/6/22	Tue 25/7/15	Sun 25/6/22	Tue 25/7/15	0 days		
269	Excavation and Lateral Support	8 days	Sun 25/6/22	Sun 25/6/29	Sun 25/6/22	Sun 25/6/29	Sun 25/6/22	Sun 25/6/29	0 days	0	267
270	Formwork Erection	10 days	Sat 25/6/28	Mon 25/7/7	Sat 25/6/28	Mon 25/7/7	Sat 25/6/28	Mon 25/7/7	0 days	0	269FS-2 days
271	Catchpit construcion	10 days	Sun 25/7/6	Tue 25/7/15	Sun 25/7/6	Tue 25/7/15	Sun 25/7/6	Tue 25/7/15	0 days	0	270FS-2 days
272	Concreting	1 day	Mon 25/7/14	Mon 25/7/14	Mon 25/7/14	Mon 25/7/14	Mon 25/7/14	Mon 25/7/14	0 days	0	271FS-2 days
273	Stage 3	24 days	Tue 25/7/15	Thu 25/8/7	Tue 25/7/15	Thu 25/8/7	Tue 25/7/15	Thu 25/8/7	0 days		
274	Excavation and Lateral Support	8 days	Tue 25/7/15	Tue 25/7/22	Tue 25/7/15	Tue 25/7/22	Tue 25/7/15	Tue 25/7/22	0 days	0	272
275	Formwork Erection	10 days	Mon 25/7/21	Wed 25/7/30	Mon 25/7/21	Wed 25/7/30	Mon 25/7/21	Wed 25/7/30	0 days	0	274FS-2 days
276	Catchpit construcion	10 days	Tue 25/7/29	Thu 25/8/7	Tue 25/7/29	Thu 25/8/7	Tue 25/7/29	Thu 25/8/7	0 days	0	275FS-2 days
277	Concreting	1 day	Wed 25/8/6	Wed 25/8/6	Wed 25/8/6	Wed 25/8/6	Wed 25/8/6	Wed 25/8/6	0 days	0	276FS-2 days
278	SHT.CP3.3~SHT.CP3,300->450CU(G),L=54.5	76 days	Thu 25/8/7	Tue 25/10/21	Thu 25/8/7	Tue 25/10/21	Thu 25/8/7	Tue 25/10/21	0 days		
279	Stage 1	24 days	Thu 25/8/7	Sat 25/8/30	Thu 25/8/7	Sat 25/8/30	Thu 25/8/7	Sat 25/8/30	0 days		
280	Excavation and Lateral Support	8 days	Thu 25/8/7	Thu 25/8/14	Thu 25/8/7	Thu 25/8/14	Thu 25/8/7	Thu 25/8/14	0 days	0	277
281	Formwork Erection	10 days	Wed 25/8/13	Fri 25/8/22	Wed 25/8/13	Fri 25/8/22	Wed 25/8/13	Fri 25/8/22	0 days	0	280FS-2 days
282	Catchpit construcion	10 days	Thu 25/8/21	Sat 25/8/30	Thu 25/8/21	Sat 25/8/30	Thu 25/8/21	Sat 25/8/30	0 days	0	281FS-2 days
283	Concreting	1 day	Fri 25/8/29	Fri 25/8/29	Fri 25/8/29	Fri 25/8/29	Fri 25/8/29	Fri 25/8/29	0 days	0	282FS-2 days
284	Stage 2	27 days	Sat 25/8/30	Thu 25/9/25	Sat 25/8/30	Thu 25/9/25	Sat 25/8/30	Thu 25/9/25	0 days		
285	Excavation and Lateral Support	8 days	Sat 25/8/30	Sat 25/9/6	Sat 25/8/30	Sat 25/9/6	Sat 25/8/30	Sat 25/9/6	0 days	0	283
286	Formwork Erection	12 days	Fri 25/9/5	Tue 25/9/16	Fri 25/9/5	Tue 25/9/16	Fri 25/9/5	Tue 25/9/16	0 days	0	285FS-2 days
287	Catchpit construcion	11 days	Mon 25/9/15	Thu 25/9/25	Mon 25/9/15	Thu 25/9/25	Mon 25/9/15	Thu 25/9/25	0 days	0	286FS-2 days
288	Concreting	1 day	Wed 25/9/24	Wed 25/9/24	Wed 25/9/24	Wed 25/9/24	Wed 25/9/24	Wed 25/9/24	0 days	0	287FS-2 days
289	Stage 3	27 days	Thu 25/9/25	Tue 25/10/21	Thu 25/9/25	Tue 25/10/21	Thu 25/9/25	Tue 25/10/21	0 days		



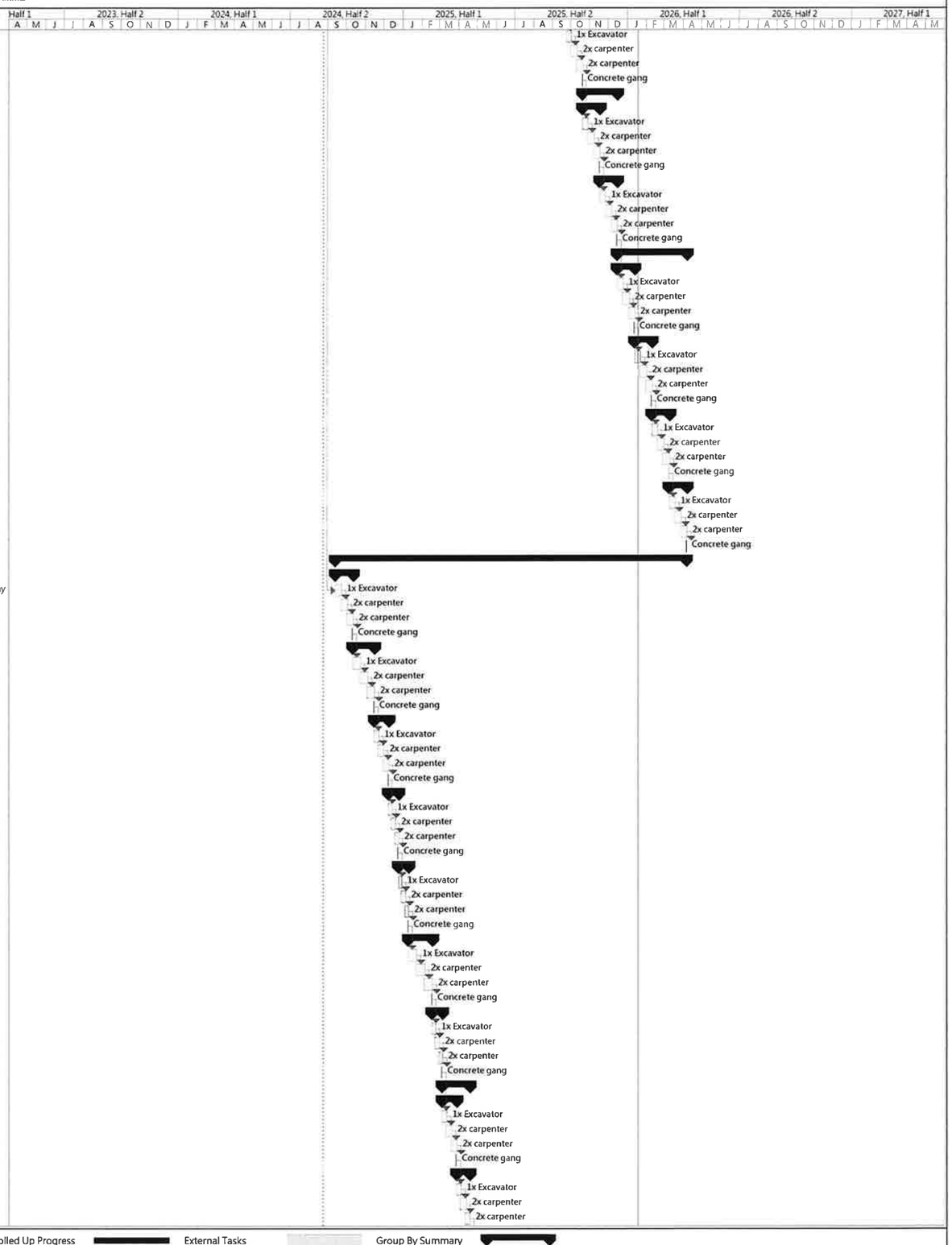
Revision : 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
Critical Task | Milestone | Rolled Up Task | Rolled Up Milestone | Split | Project Summary | Deadline

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

WING TAT CIVIL ENGINEERING CO LTD
CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2
PROJECT PROGRAMME

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
290	Excavation and Lateral Support	8 days	Thu 25/9/25	Thu 25/10/2	Thu 25/9/25	Thu 25/10/2	Thu 25/9/25	Thu 25/10/2	0 days	0	283
291	Formwork Erection	12 days	Wed 25/10/1	Sun 25/10/12	Wed 25/10/1	Sun 25/10/12	Wed 25/10/1	Sun 25/10/12	0 days	0	290FS-2 days
292	Catchpit construcion	11 days	Sat 25/10/11	Tue 25/10/21	Sat 25/10/11	Tue 25/10/21	Sat 25/10/11	Tue 25/10/21	0 days	0	291FS-2 days
293	Concreting	1 day	Mon 25/10/20	Mon 25/10/20	Mon 25/10/20	Mon 25/10/20	Mon 25/10/20	Mon 25/10/20	0 days	0	292FS-2 days
294	SHT.CP3,5~SHT.CP3.3,300->450CU(G),L=43.3	57 days	Tue 25/10/21	Tue 25/12/16	Tue 25/10/21	Tue 25/12/16	Tue 25/10/21	Tue 25/12/16	0 days		
295	Stage 1	29 days	Tue 25/10/21	Tue 25/11/18	Tue 25/10/21	Tue 25/11/18	Tue 25/10/21	Tue 25/11/18	0 days		
296	Excavation and Lateral Support	10 days	Tue 25/10/21	Thu 25/10/30	Tue 25/10/21	Thu 25/10/30	Tue 25/10/21	Thu 25/10/30	0 days	0	293
297	Formwork Erection	12 days	Wed 25/10/29	Sun 25/11/9	Wed 25/10/29	Sun 25/11/9	Wed 25/10/29	Sun 25/11/9	0 days	0	296FS-2 days
298	Catchpit construcion	11 days	Sat 25/11/8	Tue 25/11/18	Sat 25/11/8	Tue 25/11/18	Sat 25/11/8	Tue 25/11/18	0 days	0	297FS-2 days
299	Concreting	1 day	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	0 days	0	298FS-2 days
300	Stage 2	29 days	Tue 25/11/18	Tue 25/12/16	Tue 25/11/18	Tue 25/12/16	Tue 25/11/18	Tue 25/12/16	0 days		
301	Excavation and Lateral Support	10 days	Tue 25/11/18	Thu 25/11/27	Tue 25/11/18	Thu 25/11/27	Tue 25/11/18	Thu 25/11/27	0 days	0	299
302	Formwork Erection	12 days	Wed 25/11/26	Sun 25/12/7	Wed 25/11/26	Sun 25/12/7	Wed 25/11/26	Sun 25/12/7	0 days	0	301FS-2 days
303	Catchpit construcion	11 days	Sat 25/12/6	Tue 25/12/16	Sat 25/12/6	Tue 25/12/16	Sat 25/12/6	Tue 25/12/16	0 days	0	302FS-2 days
304	Concreting	1 day	Mon 25/12/15	Mon 25/12/15	Mon 25/12/15	Mon 25/12/15	Mon 25/12/15	Mon 25/12/15	0 days	0	303FS-2 days
305	End~SHT.CP3.5,300->450CU(G),L=107.7	113 days	Tue 25/12/16	Tue 26/4/7	Tue 25/12/16	Tue 26/4/7	Tue 25/12/16	Mon 26/10/5	0 days		
306	Stage 1	29 days	Tue 25/12/16	Tue 26/1/13	Tue 25/12/16	Tue 26/1/13	Tue 25/12/16	Tue 26/1/13	0 days		
307	Excavation and Lateral Support	10 days	Tue 25/12/16	Thu 25/12/25	Tue 25/12/16	Thu 25/12/25	Tue 25/12/16	Thu 25/12/25	0 days	0	304
308	Formwork Erection	12 days	Wed 25/12/24	Sun 26/1/4	Wed 25/12/24	Sun 26/1/4	Wed 25/12/24	Sun 26/1/4	0 days	0	307FS-2 days
309	Catchpit construcion	11 days	Sat 26/1/3	Tue 26/1/13	Sat 26/1/3	Tue 26/1/13	Sat 26/1/3	Tue 26/1/13	0 days	0	308FS-2 days
310	Concreting	1 day	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	Mon 26/1/12	0 days	0	309FS-2 days
311	Stage 2	29 days	Tue 26/1/13	Tue 26/2/10	Tue 26/1/13	Tue 26/2/10	Tue 26/1/13	Tue 26/2/10	0 days		
312	Excavation and Lateral Support	10 days	Tue 26/1/13	Thu 26/1/22	Tue 26/1/13	Thu 26/1/22	Tue 26/1/13	Thu 26/1/22	0 days	0	310
313	Formwork Erection	12 days	Wed 26/1/21	Sun 26/2/1	Wed 26/1/21	Sun 26/2/1	Wed 26/1/21	Sun 26/2/1	0 days	0	312FS-2 days
314	Catchpit construcion	11 days	Sat 26/1/31	Tue 26/2/10	Sat 26/1/31	Tue 26/2/10	Sat 26/1/31	Tue 26/2/10	0 days	0	313FS-2 days
315	Concreting	1 day	Mon 26/2/9	Mon 26/2/9	Mon 26/2/9	Mon 26/2/9	Mon 26/2/9	Mon 26/2/9	0 days	0	314FS-2 days
316	Stage 3	29 days	Tue 26/2/10	Tue 26/3/10	Tue 26/2/10	Tue 26/3/10	Tue 26/2/10	Tue 26/3/10	0 days		
317	Excavation and Lateral Support	10 days	Tue 26/2/10	Thu 26/2/19	Tue 26/2/10	Thu 26/2/19	Tue 26/2/10	Thu 26/2/19	0 days	0	315
318	Formwork Erection	12 days	Wed 26/2/18	Sun 26/3/1	Wed 26/2/18	Sun 26/3/1	Wed 26/2/18	Sun 26/3/1	0 days	0	317FS-2 days
319	Catchpit construcion	11 days	Sat 26/2/28	Tue 26/3/10	Sat 26/2/28	Tue 26/3/10	Sat 26/2/28	Tue 26/3/10	0 days	0	318FS-2 days
320	Concreting	1 day	Mon 26/3/9	Mon 26/3/9	Mon 26/3/9	Mon 26/3/9	Mon 26/3/9	Mon 26/3/9	0 days	0	319FS-2 days
321	Stage 4	29 days	Tue 26/3/10	Tue 26/4/7	Tue 26/3/10	Tue 26/4/7	Tue 26/3/10	Mon 26/10/5	0 days		
322	Excavation and Lateral Support	10 days	Tue 26/3/10	Thu 26/3/19	Tue 26/3/10	Thu 26/3/19	Tue 26/3/10	Thu 26/3/19	0 days	0	320
323	Formwork Erection	12 days	Wed 26/3/18	Sun 26/3/29	Wed 26/3/18	Sun 26/3/29	Wed 26/3/18	Sun 26/3/29	0 days	0	322FS-2 days
324	Catchpit construcion	11 days	Sat 26/3/28	Tue 26/4/7	Sat 26/3/28	Tue 26/4/7	Sat 26/3/28	Tue 26/4/7	0 days	0	323FS-2 days
325	Concreting	1 day	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	Mon 26/10/5	Mon 26/10/5	182 days	0	324FS-2 days
326	U-Channel Works (East)	570 days	Sat 24/9/14	Mon 26/4/6	Sat 24/9/14	Mon 26/4/6	Sat 24/9/14	Mon 26/4/6	0 days		
327	SHT.CP11~SHT.CP10E,750CU(HD-G),L=19.8	30 days	Sat 24/9/14	Sun 24/10/13	Sat 24/9/14	Sun 24/10/13	Sat 24/9/14	Sun 24/10/13	0 days		
328	Excavation and Lateral Support	11 days	Sat 24/9/14	Tue 24/9/24	Sat 24/9/14	Tue 24/9/24	Sat 24/9/14	Tue 24/9/24	0 days	0	238SS-126 day
329	Formwork Erection	12 days	Mon 24/9/23	Fri 24/10/4	Mon 24/9/23	Fri 24/10/4	Mon 24/9/23	Fri 24/10/4	0 days	0	328FS-2 days
330	Catchpit construcion	11 days	Thu 24/10/3	Sun 24/10/13	Thu 24/10/3	Sun 24/10/13	Thu 24/10/3	Sun 24/10/13	0 days	0	329FS-2 days
331	Concreting	1 day	Sat 24/10/12	Sat 24/10/12	Sat 24/10/12	Sat 24/10/12	Sat 24/10/12	Sat 24/10/12	0 days	0	330FS-2 days
332	SHT.CP10E~SHT.CP10D,750CU(HD-G),L=23.7	36 days	Sun 24/10/13	Sun 24/11/17	Sun 24/10/13	Sun 24/11/17	Sun 24/10/13	Sun 24/11/17	0 days		
333	Excavation and Lateral Support	13 days	Sun 24/10/13	Fri 24/10/25	Sun 24/10/13	Fri 24/10/25	Sun 24/10/13	Fri 24/10/25	0 days	0	331
334	Formwork Erection	14 days	Thu 24/10/24	Wed 24/11/6	Thu 24/10/24	Wed 24/11/6	Thu 24/10/24	Wed 24/11/6	0 days	0	333FS-2 days
335	Catchpit construcion	13 days	Tue 24/11/5	Sun 24/11/17	Tue 24/11/5	Sun 24/11/17	Tue 24/11/5	Sun 24/11/17	0 days	0	334FS-2 days
336	Concreting	1 day	Sat 24/11/16	Sat 24/11/16	Sat 24/11/16	Sat 24/11/16	Sat 24/11/16	Sat 24/11/16	0 days	0	335FS-2 days
337	SHT.CP10D~SHT.CP10C,750CU(HD-G),L=11.9	24 days	Sun 24/11/17	Tue 24/12/10	Sun 24/11/17	Tue 24/12/10	Sun 24/11/17	Tue 24/12/10	0 days		
338	Excavation and Lateral Support	8 days	Sun 24/11/17	Sun 24/11/24	Sun 24/11/17	Sun 24/11/24	Sun 24/11/17	Sun 24/11/24	0 days	0	336
339	Formwork Erection	10 days	Sat 24/11/23	Mon 24/12/2	Sat 24/11/23	Mon 24/12/2	Sat 24/11/23	Mon 24/12/2	0 days	0	338FS-2 days
340	Catchpit construcion	10 days	Sun 24/12/1	Tue 24/12/10	Sun 24/12/1	Tue 24/12/10	Sun 24/12/1	Tue 24/12/10	0 days	0	339FS-2 days
341	Concreting	1 day	Mon 24/12/9	Mon 24/12/9	Mon 24/12/9	Mon 24/12/9	Mon 24/12/9	Mon 24/12/9	0 days	0	340FS-2 days
342	SHT.CP10C~SHT.CP10B,750CU(HD-G),L=6.5	17 days	Tue 24/12/10	Thu 24/12/26	Tue 24/12/10	Thu 24/12/26	Tue 24/12/10	Thu 24/12/26	0 days		
343	Excavation and Lateral Support	6 days	Tue 24/12/10	Sun 24/12/15	Tue 24/12/10	Sun 24/12/15	Tue 24/12/10	Sun 24/12/15	0 days	0	341
344	Formwork Erection	8 days	Sat 24/12/14	Sat 24/12/21	Sat 24/12/14	Sat 24/12/21	Sat 24/12/14	Sat 24/12/21	0 days	0	343FS-2 days
345	Catchpit construcion	7 days	Fri 24/12/20	Thu 24/12/26	Fri 24/12/20	Thu 24/12/26	Fri 24/12/20	Thu 24/12/26	0 days	0	344FS-2 days
346	Concreting	1 day	Wed 24/12/25	Wed 24/12/25	Wed 24/12/25	Wed 24/12/25	Wed 24/12/25	Wed 24/12/25	0 days	0	345FS-2 days
347	SHT.CP10B~SHT.CP10A,750CU(HD-G),L=6.4	17 days	Thu 24/12/26	Sat 25/1/11	Thu 24/12/26	Sat 25/1/11	Thu 24/12/26	Sat 25/1/11	0 days		
348	Excavation and Lateral Support	6 days	Thu 24/12/26	Tue 24/12/31	Thu 24/12/26	Tue 24/12/31	Thu 24/12/26	Tue 24/12/31	0 days	0	346
349	Formwork Erection	8 days	Mon 24/12/30	Mon 25/1/6	Mon 24/12/30	Mon 25/1/6	Mon 24/12/30	Mon 25/1/6	0 days	0	348FS-2 days
350	Catchpit construcion	7 days	Sun 25/1/5	Sat 25/1/11	Sun 25/1/5	Sat 25/1/11	Sun 25/1/5	Sat 25/1/11	0 days	0	349FS-2 days
351	Concreting	1 day	Fri 25/1/10	Fri 25/1/10	Fri 25/1/10	Fri 25/1/10	Fri 25/1/10	Fri 25/1/10	0 days	0	350FS-2 days
352	SHT.CP10A~SHT.CP10,750CU(HD-G),L=26.7	39 days	Sat 25/1/11	Tue 25/2/18	Sat 25/1/11	Tue 25/2/18	Sat 25/1/11	Tue 25/2/18	0 days		
353	Excavation and Lateral Support	14 days	Sat 25/1/11	Fri 25/1/24	Sat 25/1/11	Fri 25/1/24	Sat 25/1/11	Fri 25/1/24	0 days	0	351
354	Formwork Erection	15 days	Thu 25/1/23	Thu 25/2/6	Thu 25/1/23	Thu 25/2/6	Thu 25/1/23	Thu 25/2/6	0 days	0	353FS-2 days
355	Catchpit construcion	14 days	Wed 25/2/5	Tue 25/2/18	Wed 25/2/5	Tue 25/2/18	Wed 25/2/5	Tue 25/2/18	0 days	0	354FS-2 days
356	Concreting	1 day	Mon 25/2/17	Mon 25/2/17	Mon 25/2/17	Mon 25/2/17	Mon 25/2/17	Mon 25/2/17	0 days	0	355FS-2 days
357	SHT.CP10~SHT.CP9,750CU(HD-G),L=4.3	17 days	Tue 25/2/18	Thu 25/3/6	Tue 25/2/18	Thu 25/3/6	Tue 25/2/18	Thu 25/3/6	0 days		
358	Excavation and Lateral Support	6 days	Tue 25/2/18	Sun 25/2/23	Tue 25/2/18	Sun 25/2/23	Tue 25/2/18	Sun 25/2/23	0 days	0	356
359	Formwork Erection	8 days	Sat 25/2/22	Sat 25/3/1	Sat 25/2/22	Sat 25/3/1	Sat 25/2/22	Sat 25/3/1	0 days	0	358FS-2 days
360	Catchpit construcion	7 days	Fri 25/2/28	Thu 25/3/6	Fri 25/2/28	Thu 25/3/6	Fri 25/2/28	Thu 25/3/6	0 days	0	359FS-2 days
361	Concreting	1 day	Wed 25/3/5	Wed 25/3/5	Wed 25/3/5	Wed 25/3/5	Wed 25/3/5	Wed 25/3/5	0 days	0	360FS-2 days
362	SHT.CP9~SHT.CP8,600CU(HD-G),L=33.7	45 days	Thu 25/3/6	Sat 25/4/19	Thu 25/3/6	Sat 25/4/19	Thu 25/3/6	Sat 25/4/19	0 days		
363	Stage 1	24 days	Thu 25/3/6	Sat 25/3/29	Thu 25/3/6	Sat 25/3/29	Thu 25/3/6	Sat 25/3/29	0 days		
364	Excavation and Lateral Support	8 days	Thu 25/3/6	Thu 25/3/13	Thu 25/3/6	Thu 25/3/13	Thu 25/3/6	Thu 25/3/13	0 days	0	361
365	Formwork Erection	10 days	Wed 25/3/12	Fri 25/3/21	Wed 25/3/12	Fri 25/3/21	Wed 25/3/12	Fri 25/3/21	0 days	0	364FS-2 days
366	Catchpit construcion	10 days	Thu 25/3/20	Sat 25/3/29	Thu 25/3/20	Sat 25/3/29	Thu 25/3/20	Sat 25/3/29	0 days	0	365FS-2 days
367	Concreting	1 day	Fri 25/3/28	Fri 25/3/28	Fri 25/3/28	Fri 25/3/28	Fri 25/3/28	Fri 25/3/28	0 days	0	366FS-2 days
368	Stage 2	22 days	Sat 25/3/29	Sat 25/4/19	Sat 25/3/29	Sat 25/4/19	Sat 25/3/29	Sat 25/4/19	0 days		
369	Excavation and Lateral Support	8 days	Sat 25/3/29	Sat 25/4/5	Sat 25/3/29	Sat 25/4/5	Sat 25/3/29	Sat 25/4/5	0 days	0	367
370	Formwork Erection	10 days	Fri 25/4/4	Sun 25/4/13	Fri 25/4/4	Sun 25/4/13	Fri 25/4/4	Sun 25/4/13	0 days	0	369FS-2 days
371	Catchpit construcion	8 days	Sat 25/4/12	Sat 25/4/19	Sat 25/4/12	Sat 25/4/19	Sat 25/4/12	Sat 25/4/19	0 days	0	370FS-2 days



Revision.: 11.0 Date: 31 July 2024

´Task | Progress | Summary | Rolled Up Critical Task | Rolled Up Progress | External Tasks | Group By Summary
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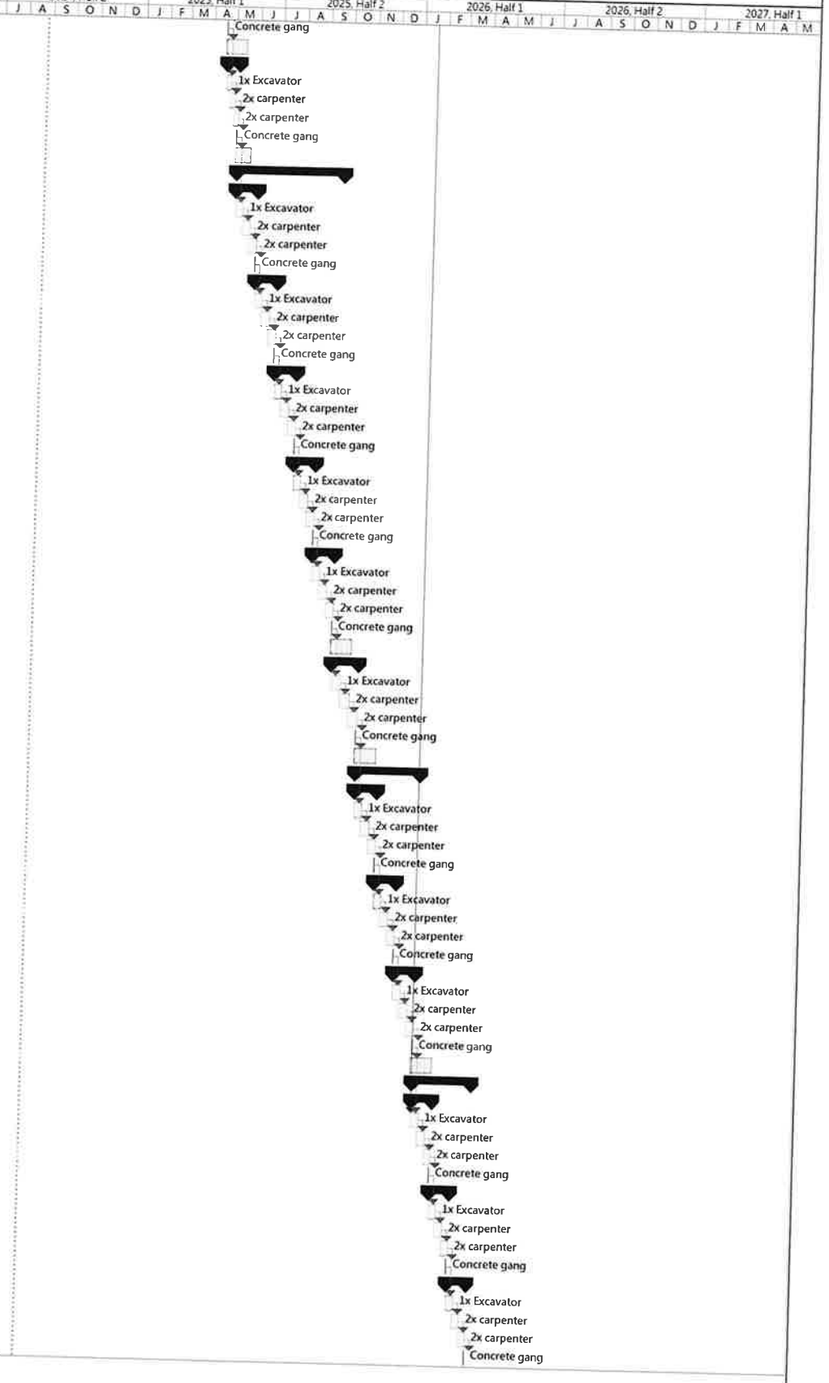
Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)
Drainage Channel: {U/S}~{D/S}

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
372	Concreting	1 day	Fri 25/4/18	Fri 25/4/18	Fri 25/4/18	Fri 25/4/18	Fri 25/4/18	Fri 25/4/18	0 days	0	371FS-2 days
373	Connection of ex. 300CU to SHT.CP8	28 days	Thu 25/4/17	Wed 25/5/14	Thu 25/4/17	Wed 25/5/14	Tue 26/3/10	Mon 26/4/6	327 days	0	372FS-2 days
374	SHT.CP8~SHT.CP7,600CU(HD-G),L=8.5	17 days	Sat 25/4/19	Mon 25/5/5	Sat 25/4/19	Mon 25/5/5	Sat 25/4/19	Mon 25/5/5	0 days		
375	Excavation and Lateral Support	6 days	Sat 25/4/19	Thu 25/4/24	Sat 25/4/19	Thu 25/4/24	Sat 25/4/19	Thu 25/4/24	0 days	0	372
376	Formwork Erection	8 days	Wed 25/4/23	Wed 25/4/30	Wed 25/4/23	Wed 25/4/30	Wed 25/4/23	Wed 25/4/30	0 days	0	375FS-2 days
377	Catchpit construcion	7 days	Tue 25/4/29	Mon 25/5/5	Tue 25/4/29	Mon 25/5/5	Tue 25/4/29	Mon 25/5/5	0 days	0	376FS-2 days
378	Concreting	1 day	Sun 25/5/4	Sun 25/5/4	Sun 25/5/4	Sun 25/5/4	Sun 25/5/4	Sun 25/5/4	0 days	0	377FS-2 days
379	Reconstruction of U/S end wall	21 days	Sat 25/5/3	Fri 25/5/23	Sat 25/5/3	Fri 25/5/23	Tue 26/3/17	Mon 26/4/6	318 days	0	378FS-2 days
380	SHT.CP7~SHT.CP6,600CU(HD-G),L=130.8	141 days	Mon 25/5/5	Mon 25/9/22	Mon 25/5/5	Mon 25/9/22	Mon 25/5/5	Mon 25/9/22	0 days		
381	Stage 1	29 days	Mon 25/5/5	Mon 25/6/2	Mon 25/5/5	Mon 25/6/2	Mon 25/5/5	Mon 25/6/2	0 days		
382	Excavation and Lateral Support	10 days	Mon 25/5/5	Wed 25/5/14	Mon 25/5/5	Wed 25/5/14	Mon 25/5/5	Wed 25/5/14	0 days	0	378
383	Formwork Erection	12 days	Tue 25/5/13	Sat 25/5/24	Tue 25/5/13	Sat 25/5/24	Tue 25/5/13	Sat 25/5/24	0 days	0	382FS-2 days
384	Catchpit construcion	11 days	Fri 25/5/23	Mon 25/6/2	Fri 25/5/23	Mon 25/6/2	Fri 25/5/23	Mon 25/6/2	0 days	0	383FS-2 days
385	Concreting	1 day	Sun 25/6/1	Sun 25/6/1	Sun 25/6/1	Sun 25/6/1	Sun 25/6/1	Sun 25/6/1	0 days	0	384FS-2 days
386	Stage 2	29 days	Mon 25/6/2	Mon 25/6/30	Mon 25/6/2	Mon 25/6/30	Mon 25/6/2	Mon 25/6/30	0 days		
387	Excavation and Lateral Support	10 days	Mon 25/6/2	Wed 25/6/11	Mon 25/6/2	Wed 25/6/11	Mon 25/6/2	Wed 25/6/11	0 days	0	385
388	Formwork Erection	12 days	Tue 25/6/10	Sat 25/6/21	Tue 25/6/10	Sat 25/6/21	Tue 25/6/10	Sat 25/6/21	0 days	0	387FS-2 days
389	Catchpit construcion	11 days	Fri 25/6/20	Mon 25/6/30	Fri 25/6/20	Mon 25/6/30	Fri 25/6/20	Mon 25/6/30	0 days	0	388FS-2 days
390	Concreting	1 day	Sun 25/6/29	Sun 25/6/29	Sun 25/6/29	Sun 25/6/29	Sun 25/6/29	Sun 25/6/29	0 days	0	389FS-2 days
391	Stage 3	29 days	Mon 25/6/30	Mon 25/7/28	Mon 25/6/30	Mon 25/7/28	Mon 25/6/30	Mon 25/7/28	0 days		
392	Excavation and Lateral Support	10 days	Mon 25/6/30	Wed 25/7/9	Mon 25/6/30	Wed 25/7/9	Mon 25/6/30	Wed 25/7/9	0 days	0	390
393	Formwork Erection	12 days	Tue 25/7/8	Sat 25/7/19	Tue 25/7/8	Sat 25/7/19	Tue 25/7/8	Sat 25/7/19	0 days	0	392FS-2 days
394	Catchpit construcion	11 days	Fri 25/7/18	Mon 25/7/28	Fri 25/7/18	Mon 25/7/28	Fri 25/7/18	Mon 25/7/28	0 days	0	393FS-2 days
395	Concreting	1 day	Sun 25/7/27	Sun 25/7/27	Sun 25/7/27	Sun 25/7/27	Sun 25/7/27	Sun 25/7/27	0 days	0	394FS-2 days
396	Stage 4	29 days	Mon 25/7/28	Mon 25/8/25	Mon 25/7/28	Mon 25/8/25	Mon 25/7/28	Mon 25/8/25	0 days		
397	Excavation and Lateral Support	10 days	Mon 25/7/28	Wed 25/8/6	Mon 25/7/28	Wed 25/8/6	Mon 25/7/28	Wed 25/8/6	0 days	0	395
398	Formwork Erection	12 days	Tue 25/8/5	Sat 25/8/16	Tue 25/8/5	Sat 25/8/16	Tue 25/8/5	Sat 25/8/16	0 days	0	397FS-2 days
399	Catchpit construcion	11 days	Fri 25/8/15	Mon 25/8/25	Fri 25/8/15	Mon 25/8/25	Fri 25/8/15	Mon 25/8/25	0 days	0	398FS-2 days
400	Concreting	1 day	Sun 25/8/24	Sun 25/8/24	Sun 25/8/24	Sun 25/8/24	Sun 25/8/24	Sun 25/8/24	0 days	0	399FS-2 days
401	Stage 5	29 days	Mon 25/8/25	Mon 25/9/22	Mon 25/8/25	Mon 25/9/22	Mon 25/8/25	Mon 25/9/22	0 days		
402	Excavation and Lateral Support	10 days	Mon 25/8/25	Wed 25/9/3	Mon 25/8/25	Wed 25/9/3	Mon 25/8/25	Wed 25/9/3	0 days	0	400
403	Formwork Erection	12 days	Tue 25/9/2	Sat 25/9/13	Tue 25/9/2	Sat 25/9/13	Tue 25/9/2	Sat 25/9/13	0 days	0	402FS-2 days
404	Catchpit construcion	11 days	Fri 25/9/12	Mon 25/9/22	Fri 25/9/12	Mon 25/9/22	Fri 25/9/12	Mon 25/9/22	0 days	0	403FS-2 days
405	Concreting	1 day	Sun 25/9/21	Sun 25/9/21	Sun 25/9/21	Sun 25/9/21	Sun 25/9/21	Sun 25/9/21	0 days	0	404FS-2 days
406	Connection of ex. 400CU to SHT.CP6	28 days	Sat 25/9/20	Fri 25/10/17	Sat 25/9/20	Fri 25/10/17	Tue 26/3/10	Mon 26/4/6	171 days	0	405FS-2 days
407	SHT.CP6~SHT.CP5,600CU(HD-G),L=24.1	36 days	Mon 25/9/22	Mon 25/10/27	Mon 25/9/22	Mon 25/10/27	Mon 25/9/22	##########	0 days		
408	Excavation and Lateral Support	13 days	Mon 25/9/22	Sat 25/10/4	Mon 25/9/22	Sat 25/10/4	Mon 25/9/22	Sat 25/10/4	0 days	0	405
409	Formwork Erection	14 days	Fri 25/10/3	Thu 25/10/16	Fri 25/10/3	Thu 25/10/16	Fri 25/10/3	Thu 25/10/16	0 days	0	408FS-2 days
410	Catchpit construcion	13 days	Wed 25/10/15	Mon 25/10/27	Wed 25/10/15	Mon 25/10/27	Wed 25/10/15	Mon 25/10/27	0 days	0	409FS-2 days
411	Concreting	1 day	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	0 days	0	410FS-2 days
412	Connection of ex. 400CU to SHT.CP5	28 days	Sat 25/10/25	Fri 25/11/21	Sat 25/10/25	Fri 25/11/21	Tue 26/3/10	Mon 26/4/6	136 days	0	411FS-2 days
413	SHT.CP5~SHT.CP4,600CU(HD-G),L=73.9	85 days	Mon 25/10/27	Mon 26/1/19	##########	Mon 26/1/19	##########	Mon 26/1/19	0 days		
414	Stage 1	29 days	Mon 25/10/27	Mon 25/11/24	##########	Mon 25/11/24	##########	##########	0 days		
415	Excavation and Lateral Support	10 days	Mon 25/10/27	Wed 25/11/5	Mon 25/10/27	Wed 25/11/5	Mon 25/10/27	Wed 25/11/5	0 days	0	411
416	Formwork Erection	12 days	Tue 25/11/4	Sat 25/11/15	Tue 25/11/4	Sat 25/11/15	Tue 25/11/4	Sat 25/11/15	0 days	0	415FS-2 days
417	Catchpit construcion	11 days	Fri 25/11/14	Mon 25/11/24	Fri 25/11/14	Mon 25/11/24	Fri 25/11/14	Mon 25/11/24	0 days	0	416FS-2 days
418	Concreting	1 day	Sun 25/11/23	Sun 25/11/23	Sun 25/11/23	Sun 25/11/23	Sun 25/11/23	Sun 25/11/23	0 days	0	417FS-2 days
419	Stage 2	29 days	Mon 25/11/24	Mon 25/12/22	##########	Mon 25/12/22	##########	##########	0 days		
420	Excavation and Lateral Support	10 days	Mon 25/11/24	Wed 25/12/3	Mon 25/11/24	Wed 25/12/3	Mon 25/11/24	Wed 25/12/3	0 days	0	418
421	Formwork Erection	12 days	Tue 25/12/2	Sat 25/12/13	Tue 25/12/2	Sat 25/12/13	Tue 25/12/2	Sat 25/12/13	0 days	0	420FS-2 days
422	Catchpit construcion	11 days	Fri 25/12/12	Mon 25/12/22	Fri 25/12/12	Mon 25/12/22	Fri 25/12/12	Mon 25/12/22	0 days	0	421FS-2 days
423	Concreting	1 day	Sun 25/12/21	Sun 25/12/21	Sun 25/12/21	Sun 25/12/21	Sun 25/12/21	Sun 25/12/21	0 days	0	422FS-2 days
424	Stage 3	29 days	Mon 25/12/22	Mon 26/1/19	##########	Mon 26/1/19	##########	Mon 26/1/19	0 days		
425	Excavation and Lateral Support	10 days	Mon 25/12/22	Wed 25/12/31	Mon 25/12/22	Wed 25/12/31	Mon 25/12/22	Wed 25/12/31	0 days	0	423
426	Formwork Erection	12 days	Tue 25/12/30	Sat 26/1/10	Tue 25/12/30	Sat 26/1/10	Tue 25/12/30	Sat 26/1/10	0 days	0	425FS-2 days
427	Catchpit construcion	11 days	Fri 26/1/9	Mon 26/1/19	Fri 26/1/9	Mon 26/1/19	Fri 26/1/9	Mon 26/1/19	0 days	0	426FS-2 days
428	Concreting	1 day	Sun 26/1/18	Sun 26/1/18	Sun 26/1/18	Sun 26/1/18	Sun 26/1/18	Sun 26/1/18	0 days	0	427FS-2 days
429	Connection of ex. 450CU to SHT.CP4	28 days	Sat 26/1/17	Fri 26/2/13	Sat 26/1/17	Fri 26/2/13	Tue 26/3/10	Mon 26/4/6	52 days	0	428FS-2 days
430	SHT.CP4~End,525CU(HD-G),L=82.3	78 days	Mon 26/1/19	Mon 26/4/6	Mon 26/1/19	Mon 26/4/6	Mon 26/1/19	Mon 26/4/6	0 days		
431	Stage 1	27 days	Mon 26/1/19	Sat 26/2/14	Mon 26/1/19	Sat 26/2/14	Mon 26/1/19	Sat 26/2/14	0 days		
432	Excavation and Lateral Support	10 days	Mon 26/1/19	Wed 26/1/28	Mon 26/1/19	Wed 26/1/28	Mon 26/1/19	Wed 26/1/28	0 days	0	428,115,118
433	Formwork Erection	11 days	Tue 26/1/27	Fri 26/2/6	Tue 26/1/27	Fri 26/2/6	Tue 26/1/27	Fri 26/2/6	0 days	0	432FS-2 days
434	Catchpit construcion	10 days	Thu 26/2/5	Sat 26/2/14	Thu 26/2/5	Sat 26/2/14	Thu 26/2/5	Sat 26/2/14	0 days	0	433FS-2 days
435	Concreting	1 day	Fri 26/2/13	Fri 26/2/13	Fri 26/2/13	Fri 26/2/13	Fri 26/2/13	Fri 26/2/13	0 days	0	434FS-2 days
436	Stage 2	27 days	Sat 26/2/14	Thu 26/3/12	Sat 26/2/14	Thu 26/3/12	Sat 26/2/14	Thu 26/3/12	0 days		
437	Excavation and Lateral Support	10 days	Sat 26/2/14	Mon 26/2/23	Sat 26/2/14	Mon 26/2/23	Sat 26/2/14	Mon 26/2/23	0 days	0	435
438	Formwork Erection	11 days	Sun 26/2/22	Wed 26/3/4	Sun 26/2/22	Wed 26/3/4	Sun 26/2/22	Wed 26/3/4	0 days	0	437FS-2 days
439	Catchpit construcion	10 days	Tue 26/3/3	Thu 26/3/12	Tue 26/3/3	Thu 26/3/12	Tue 26/3/3	Thu 26/3/12	0 days	0	438FS-2 days
440	Concreting	1 day	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	Wed 26/3/11	0 days	0	439FS-2 days
441	Stage 3	26 days	Thu 26/3/12	Mon 26/4/6	Thu 26/3/12	Mon 26/4/6	Thu 26/3/12	Mon 26/4/6	0 days		
442	Excavation and Lateral Support	10 days	Thu 26/3/12	Sat 26/3/21	Thu 26/3/12	Sat 26/3/21	Thu 26/3/12	Sat 26/3/21	0 days	0	440
443	Formwork Erection	10 days	Fri 26/3/20	Sun 26/3/29	Fri 26/3/20	Sun 26/3/29	Fri 26/3/20	Sun 26/3/29	0 days	0	442FS-2 days
444	Catchpit construcion	10 days	Sat 26/3/28	Mon 26/4/6	Sat 26/3/28	Mon 26/4/6	Sat 26/3/28	Mon 26/4/6	0 days	0	443FS-2 days
445	Concreting	1 day	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	Mon 26/4/6	0 days	0	444FS-1 day



Appendix 1.2 Project Organization Chart

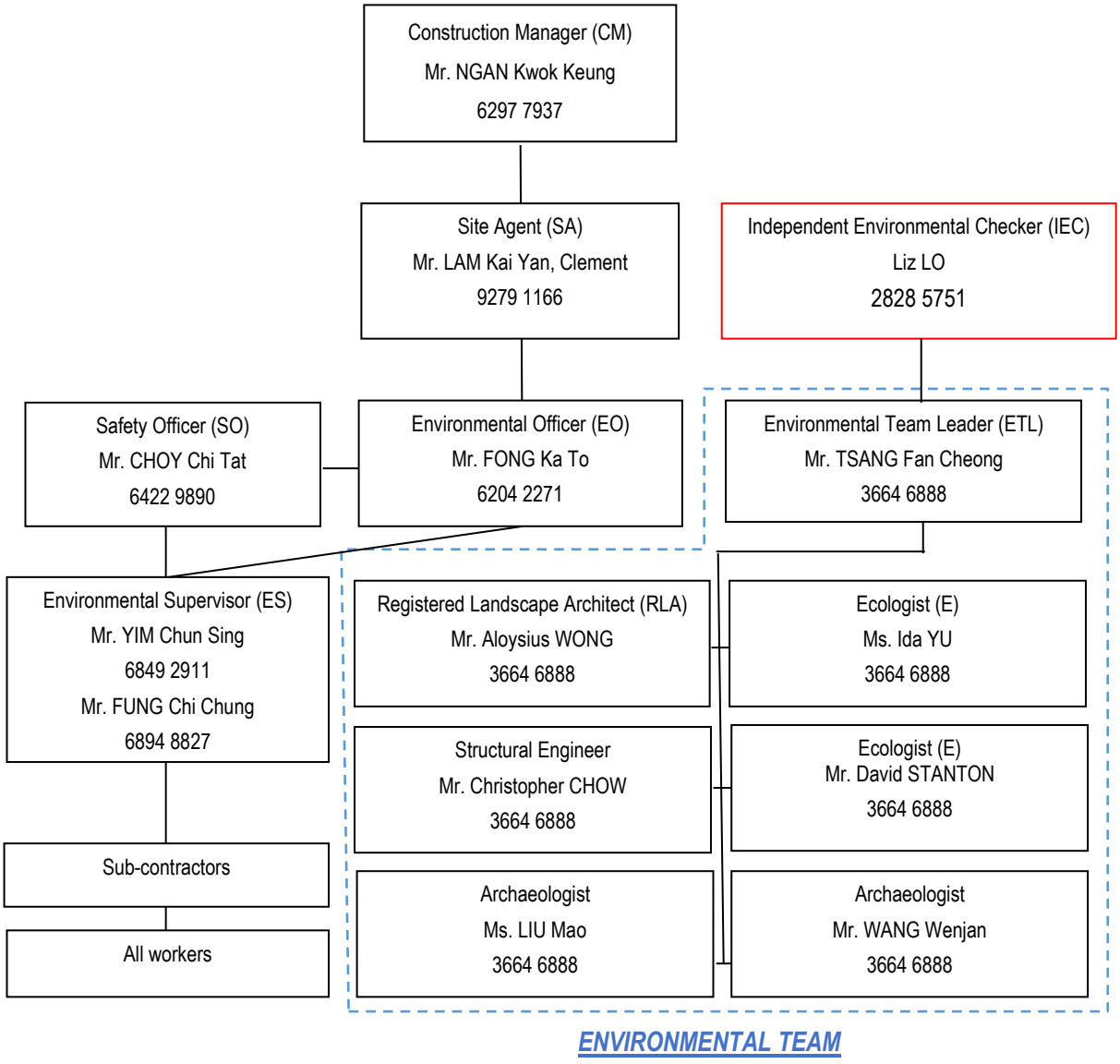
Appendix 1

Wing Tat Civil Engineering Co. Ltd

Contract No. : DC/2022/02

Drainage Improvement Works at Yuen Long – Stage 2

Organization Chart of Environmental Management (updated on 12-06-2024)



Appendix 1.3 Implementation Status of Environmental Mitigation Measure

Air Quality Impact Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S.3.8.1	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• Proper and regular watering should be provided for all exposed and excavated work sites.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	• All excavated or stockpile of dusty materials should be entirely covered by impervious sheeting or sprayed with water to ensure that the entire surface is wet. They should be sprayed with water immediately prior to any loading or transfer activities. These materials should be removed, backfilled or reinstated where practicable.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• After the removal of stockpiles, the remaining dusty material should be sprayed with water and cleared from the surface of roads. Stockpiling areas of dusty materials should not be extended beyond the pedestrian barriers, fencing or traffic cones.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• At locations with proposed open excavation and reinstatement works, hoarding of not less than 2.4 m from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. The contractor should ensure that the hoardings are well maintained throughout the entire construction period.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	• Vehicles used for the transportation of dusty materials/ spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• Vehicle wheel washing facilities will be provided at exit of the works site. The areas where vehicle wheel washing activities are carried out and the section of the construction site between the vehicle washing facilities and the exit should be paved with concrete or bituminous materials.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• Where possible, routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	• All demolished materials that may generate dust should be covered entirely by impervious sheeting or placed in a covered area with the top and three sides enclosed within a day of demolition.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• At construction works areas where demolition takes place, water or dust suppression chemicals should be sprayed prior to, during and immediately after the demolition activities to ensure that the top surface remains wet.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• The requirements stipulated in the Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness should be followed as far as practicable to enhance the cleanliness and tidiness of construction sites.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	• NRMMs should be approved or exempted with a label issued by EPD. The label should be displayed at a conspicuous position of the machine or vehicle. Nonroad vehicles are required to meet the Euro V emission standards and smoke requirements as stipulated under the Air Pollution Control (Vehicle Design Standards) (Emission) Regulation.	Emission from NRMM during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.3.8.1	S.3.2.3	• The works at overlapping section are recommended to be scheduled to avoid works at the areas near Fan Kam Road. • The Contractor shall liaise with No. CE 61/2012 (HY) – Improvement to Fan Kam Road – Investigation contractors so as to avoid undertaking works concurrently with the works from CE 61/2012 Project when they are in the close proximity. As a conservative approach, works for drainage improvement shall be carried when the works from the No. CE 61/2012 project is over 500 m away.	Prevent potential cumulative construction air quality impacts	Contractor(s)	At all construction areas of the site for Ha Che during the entire construction period	-	Implemented	Ha Che: 20 February 2024

Noise Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
Construction Phase									
S.4.6.6	S. 4.8.1	Use of quiet PMEs and smaller sized of PMEs as practicable.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	
S.4.6.7	S. 4.8.1	Use of quiet PME for generator, mobile crane and excavator, wheeled/ tracked.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
S.4.6.8	S. 4.8.1	The Contractor should be responsible for the design of temporary/ movable noise barriers with consideration of the size of PME and the requirements of intercepting the line of sight between the noise sensitive receivers and PME.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	The mitigation measures of utilising material stockpiles and other structures as noise barriers, is not applicable to the construction areas.

S.4.7.1	S. 4.8.1	• The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the NCO (Cap. 400) (for Construction Industry) published by the EPD; • The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines; • Before commencing any work, the Contractor shall submit to the Environmental Review for approval the method of working, equipment and noise mitigation measures intended to be used at the site; • The Contractor shall devise and execute working methods to minimise the noise impact on the identified surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented; • Noisy equipment and noisy activities should be located as far away from the NSR's as is practical; • Machines and plant (such as dump truck, vibratory compactor, lorry, cranes) that may be intermitted use should be shut down between work periods or should be throttled down to a minimum. Additionally, the combined use of noisy equipment/ machines should be avoided, when possible;	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction programme; • Silencers, mufflers or acoustic treatment mats on construction equipment should be utilised and properly maintained during the construction duration; • Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and • Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable.							
S.4.7.2	S. 4.8.1	The Contractor shall, from time to time, be aware of the noise impacts on the surrounding NSRs through adequate noise monitoring during the works so that adjustments can be made to the number of plants used for any construction activity and the corresponding plant positioning. These requirements shall be incorporated into the project works contract.	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	

Ecological Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S.5.9.2	S.5.2.1	The section of watercourse with construction activities should be hydrologically isolated from the rest of the watercourse as far as practicable (except discharge of treated runoff).	Ecological – to avoid and minimize the spatial impact/ disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.5.9.2	S.5.2.1	The staged construction activities should be commenced from upstream and progresses toward the downstream area and the reinstatement work especially the planting of riparian vegetation should also be undertaken in stages and commenced as soon as the hardscape work completed in the working section	Ecological – to avoid and minimize the spatial impact and shorten the temporal disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

S.5.9.3	S.5.2.2	Good Site Practice • Effective implementation of an Environmental Management Systems in accordance with the ISO 14001 for all work sites; • Effective implementation of mitigation measures recommended for dust suppression, noise reduction, as well as water quality and waste management as detailed in other sections of the EIA Report. • Effective implementation of the Tree Preservation Measures as detailed in the guidelines published by the Tree Management Office. • Staff awareness training on the ecological importance of the riverine habitats and inhabited wildlife, as well as briefing on the mitigation measures recommended in the EIA Report. • Well defined and fenced Work Area to prevent intentional or accidental encroachment or trespassing into the adjacent habitats for access, parking and operation of plants/ machineries, as well as stockpiling of construction material or waste; • Fence off any potentially ecologically sensitive resources within the work area with warning signpost; • Water diversion by means of submerged water pump should be avoided as far as practicable to prevent obstruction of wildlife movement along the channel;	Ecological – to avoid or minimize the potential disturbance to the habitats and wildlife inhabited within or adjacent to the work sites	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
		• Waste and refuse should be stored or dumped in appropriate receptacles and on-site burning of waste should be strictly prohibited; • Excavated material should be properly covered or promptly disposed of, and opportunities to stockpile and backfill the topsoil should be explored; • No chemical should be stockpiled on-site until absolutely necessary; • On-site maintenance of plant/ machineries/ vehicle should be avoided as far as practicable; • Silt/ Sediment/ Oil traps should be installed to avoid direct discharge of effluent or site run-off; • Regular ecological checks; • Cut down of vegetation during site clearance should be in stages before groundwork takes place as such to disperse any wildlife that is sheltering in the immediate area; and • minimise vehicle access.						

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.4	S.5.2.10	The construction work in Tai Wo should be scheduled in the dry season and sandbags or other similar facilities should be placed along the southern boundary of the work site to prevent any accidental discharge of untreated effluent into the buffered grassland and EIS under adverse weather condition. In addition, discharge of any treated or untreated effluent, either by means of soakaway or direct discharge to nearby waterways, should be directed away from the grassland buffer and the EIS. The above measure should be audited regularly as part of the routine site inspection undertaken by the ET.	Ecological – to avoid and minimize any potential impact to the Cheung Po EIA from site discharge	Contractor(s)	Tai Wo	EIA, contractual requirements	Implemented	
S.5.9.6 to 5.9.7	S.5.2.7, 5.2.8	A detail survey to update the abundance and distribution of the endemic freshwater crabs within the project site (include the original watercourse which will be cut-off at Ha Che and Lin Fa Tei, inclusive of a receptor site search for the preparation of a “Freshwater Crab Translocation Plan”, in which the whole process including logistic arrangement should be detailed for the approval of AFCD.	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species	Engineer	Lin Fa Tei and Ha Che, before the commencement of the construction work	EIA, contractual requirements	Implemented, EPD advised no comment on the FCTP on 9 Feb 2024. A formal reply letter was issued by the EPD on 4 July 2024 after the submission of hardcopy for their record.	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.6 to 5.9.7	S.5.2.9	Capture and translocate two endemic freshwater crabs and undertake post-translocation monitoring programme in accordance to the approved "Freshwater Crab Translocation Plan".	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species.	Contractor, ET	Lin Fa Tei and Ha Che, within one month before the commencement of the construction work	EIA, contractual requirements	Implemented, pre-construction surveys at Ha Che and Lin Fa Tei were completed between 5 and 7 Feb 2024 and 11 and 13 Mar 2024 respectively	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024
S.5.9.6 to 5.9.8	S.5.2.9	Before the commencement of a construction work in a new section, the site should be inspected by the ecologist to confirm no inhabitation of the two freshwater crab species.	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species	Contractor, ET	Lin Fa Tei and Ha Che, within one month before the commencement of the construction work	EIA, contractual requirements	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024
S.5.9.9	S.5.2.4	The *Aquilaria sinensis* (seedling) within the site boundary at Sung Shan New Village to be protected and retained during construction in accordance with DEVB TCW No. 4/2020 Tree Preservation	Ecological – to preserve the floral species of conservation concern	Engineer	Sung Shan New Village	EIA, contractual requirements	Implemented	Sung Shan New Village: 16 April 2024
S.5.9.13-5.9.19	S.5.2.15	Restoration of wildlife habitat by ecological habitat and niche that could promote colonisation of aquatic wildlife during the reinstatement of embankment and channel bed	Ecological – to compensate for the loss of wildlife habitat especially the two endemic freshwater crab species	Contractor(s)	All sites during construction	EIA, contractual requirements	The restoration and planting works will be conducted after the completion of construction work at Ha Che, Lin Fa Tei and Sung Shan New Village	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

Water Quality Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
Construction Phase									
S.6.7.2	S.6.2.3	The mitigation measures should cover, but not limited to the following Best Management Practices: • Sand/ silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove sand/ silt particles from runoff to meet the requirements of the Technical Memorandum standards under the WPCO. The design of silt removal facilities should be based on the guidelines provided in ProPECC PN 2/23. All drainage facilities and erosion and sediment control structures should be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. • Work programmes should be designed to minimize the size of work areas to minimize the soil exposure soil and reduce the potential for increased siltation and runoff;	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and ProPECC PN 2/23	Implemented.	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	WPCO licenses for Ha Che, Lin Fa Tei, Sung Shan New Village and Tai Wo were granted on 26 Apr 2024, 24 May 2024, 10 July 2024 and 29 July 2024 respectively.

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• Boundaries of earthworks should be marked and surrounded by dykes or embankments for flood protection, as necessary; • Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure the proper function; • Water pumped out from excavations should be discharged into silt removal facilities; • Careful programming of the works to minimize soil excavation during the rainy season. If excavation of soil cannot be avoided during the wet season (April to September), exposed slope surfaces should be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarized in ProPECC PN 2/23; • Earthwork surfaces should be well compacted and the subsequent permanent work or surface protection should be							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		carried out immediately after the final surfaces are formed; • Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. The discharge of wastewater should be kept to a minimum; • To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on-line standby pump of adequate capacity and with automatic alternating devices; • Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment. Surface run-off should be segregated from the concrete batching plant and casting yard area as much as possible, and diverted to the stormwater drainage system. Surface run-off contaminated by materials in a							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		concrete batching plant or casting yard should be adequately treated before disposal into stormwater drains; • Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric during rainstorms.							

S.6.7.4	S6.2.3	The guidelines stipulated in the ProPECC PN 2/23 "Construction Site Drainage" issued by the EPD should be followed to minimise the potential water quality impacts. Good housekeeping and stormwater best management practices, as detailed below, should be implemented to ensure that all construction runoff are well controlled to minimise the water quality impacts that arise due to the construction works of the Project. • Flood protection such as dikes or embankments should be provided around the boundaries of earthwork areas. Temporary ditches should be provided as appropriate to facilitate the runoff discharge into drainage system, through a silt/ sediment trap. The silt/ sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates; • Construction works should be programmed to avoid surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and ProPECC PN 2/23	Implemented.	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	• WPCO licenses for Ha Che, Lin Fa Tei, Sung Shan New Village and Tai Wo were granted on 26 Apr 2024, 24 May 2024, 10 July 2024 and 29 July 2024 respectively. • The provision of oil interceptors in the drainage system downstream is not applicable as there is no oil/ fuel pollution spotted at the construction sites. • Fuel tanks and storage areas are not placed

		slope surfaces should be covered by tarpaulin or other means; • All drainage facilities and erosion and sediment control structures, if any, should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms; • Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;			at the construction sites. • Deficiency of mitigation measures for sediment control but rectified by the Contractor.

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• All open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; 3Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; • Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 2/23. Particular attention should be paid to the control of silty surface runoff during storm events;							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to the public road should be paved with sufficient backfall toward the wheel-washing bay to prevent vehicle tracking of soil and silty water to public roads and drains; • Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources as far as possible. The oil interceptors, if any, should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		system after accidental spillage; • Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; • All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.							
S.6.7.5	S.6.2.3	Maintenance of vehicles and equipment involving activities with potential for leakage and spillage is expected to be carried out off-site and should only be undertaken within areas appropriately equipped to control these discharges.	To control the effluent discharge during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	
S.6.7.6	S.6.2.3	Contractor shall apply for a discharge license under WPCO.	To control the effluent discharge during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented.	Ha Che: 26 Apr 2024 Lin Fa Tei: 24 May 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
								Sung Shan New Village: 16 April 2024	
S.6.7.7 & S.6.7.8	S.6.2.3	Sewage from Workforce • Portable chemical toilets and/ or sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater to 0.15 m^3/day/worker of sewage and be responsible for appropriate disposal and maintenance. • Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site should be conducted to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the	To control sewage generation during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		construction phase of the project would not cause water quality impact after undertaking all required measures.							
S.6.7.10 - S.6.7.15	S.6.2.3	Widening of Drainage Channels • Due to the characteristics of narrow width and small water flow of the existing channel, the excavation should be carried out in dry condition (even in wet season) by diverting the stream flow from upstream by a temporary drainage channel with a temporary sheet piles, earth bund or barrier so that the works area will remain dry for later excavation and widening works; • The temporary drainage channel would be backfilled when the construction works are completed or the temporary diversion is no longer required. Although flooding of the proposed contaminant section seldom occurs in dry season, the excavation would consider to suspend when flood water enters the containment causing leakage of runoffs to stream water;	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• After dewatering of the streams, the sediments should be allowed to dry before excavation (yet still maintain a moist state to avoid dust nuisance). This will facilitate excavation of the sediments and also minimize the risk of drained water flowing back into watercourses or diversion channels as the sediment is handled. Where time or weather constraints require handling of wet sediment, care should be taken in the removal of sediment and the storage area should be bunded to prevent silty runoff entering watercourses. Given its small quantity, all excavated sediment should be reused on-site as backfilling material;							
		• To further minimize the leakage and loss of sediments during excavation, tightly sealed closed grab excavators should be employed in river sections where material to be handled is wet. Where material is dry and in non-river sections, conventional excavations can be used;							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• Excavated sediment will likely be temporarily stored on-site for reuse as backfilling material. This should be stored in a bunded area and covered at any time to avoid inadvertent release of silts and suspended solids to nearby water bodies; • Regular monitoring of suspended solids, pH and turbidity should be conducted during excavation works. Any exceedance of water quality in the nearby water bodies caused by inadvertent release of site runoff should be rectified in accordance with EM&A programme for this project.							
S.6.7.16	S6.2.3	Cast in-situ Construction • Minimise the area of the site which generates contaminated stormwater runoff; • Provide a separate dedicated drainage system to discharge clean stormwater from the site; • Drain all contaminated stormwater and process wastewater to a collection pit for recycling; • Regularly clean out solids that accumulate in the pit;	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		• There must be no dry weather wastewater discharges from the site; • Monitor wet weather discharges for pH and suspended solids. Retain the records.							
S.6.7.17	S6.2.3	Registration to EPD as a CWP (Chemical Waste Producers) is required if chemical wastes are generated and need to be disposed of. Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance (WDO). The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the WDO should be used as a guideline for handing chemical wastes.	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO, WDO and the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024	
S.6.7.18	S.6.2.3	Mitigation measures to avoid potential impact to Cheung Po EIS • The construction work in Tai Wo should be scheduled in the dry season and sand bags or other similar facilities should be placed along the southern boundary to the work site to prevent any accidental discharge of untreated effluent into the buffered grassland and	Water quality control during construction	Contractor(s)	At Tai Wo Area during the entire construction period	WPCO	Implemented		

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		EIS under adverse weather condition; • Discharge of any treated or untreated effluent, either by means of soakaway or direct discharge to nearby waterways, should be directed away from the grassland buffer and the EIS.							

Waste Management Implication – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S.7.5.1	S.7.2.5	• An on-site environmental co-ordinator employed by the contractor should be identified prior to the outset of the work. Prior to commencement of project, the environmental coordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the Engineers Representative's approval. The WMP shall include monthly and yearly Waste Flow Tables (WFT) that indicate the amount of waste generated, recycled and disposed of (including final disposal location), and which should be regularly updated;	Waste management during construction	Contractor(s)	Prior to commencement of Project works and implemented throughout the entire construction period	ETWB TCW No. 19/2005	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• The Project contractor's waste management practices and effectiveness should also be audited by the Engineer on a regular basis;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	• The reuse/ recycling of all materials on site should be investigated and exhausted prior to treatment/ disposal off-site;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• Good site practices should be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• All waste materials should be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they should be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	• The Project contractor should be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the contractor should make arrangements for the collection of the recyclable materials. Any remaining non-inert waste should be collected and disposed of to the landfill as last resort whilst any inert C&D materials should be re-used on site as far as possible. Alternatively, if no use of the inert materials can be found on-site, the materials can be delivered to a public fill area or public fill bank after obtaining the appropriate licence;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• In order to monitor the disposal of C&D materials and solid waste at public filling facilities and landfills, and to control fly-tipping, a trip ticket system shall be implemented by the contractor, in accordance with the contract and the requirements of DEVB TCW No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	DEVB TCW No. 6/2010	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	• Under the Waste Disposal (Chemical Waste) (General) Regulation, the Project contractor shall register as a Chemical Waste Producer (CWP) if chemical wastes such as spent lubricants, paints, etc. are generated onsite. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated onsite. 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 Wastes and A Guide to the Chemical Waste Control Scheme both published by the EPD;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal (Chemical Waste) (General) Regulation	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• A sufficient number of covered bins should be provided onsite for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins should be cleared daily and the collected waste disposed of to the nearest refuse transfer station. Further to the issue of DEVB TC(W) 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;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance and DEVB TC(W) No. 8/2010	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	• Minimize windblown litter and dust during transportation by either fitting trucks with mechanical covers or transporting waste in enclosed containers;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• All chemical toilets, if any, should be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S.7.5.1	S.7.2.5	• Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; and	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	• The project contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of the project construction.	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. • Segregation and storage different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the workforce; • Use of reusable non-timber formwork to reduce the amount of C&D material; • Prior to disposal of C&D waste, it is recommended that wood, steel and other metal shall be separated for re-used and/ or recycling to minimise the quantity of waste to be disposal of to landfill; • Proper storage and site practice to minimise the potential for damage and contamination of construction materials; • Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	ETWB TCW No. 19/2005	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

Land Contamination – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S.8.8.1	S.8.2.1	Unexpected contaminated materials may be encountered near identified potential contaminated sites during construction. Should suspected contamination be found during construction, the extent and nature of contamination within project areas should be properly assessed and the contaminated soil/ groundwater should be remediated in accordance with EPD issued publications as below: • Guidance Note for Contaminated Land Assessment and Remediation; • Guidance Manual for Use of Risk-based Remediation Goals ("RBRGs") for Contaminated Land Management; and • Practice Guide for Investigation and Remediation of Contaminated Land.	Safety precautionary measures for handling possible contaminated materials	Contractor(s)	During construction works within the works areas nearby the land contamination sites HC-A, HC-C, HC-D, HC-I, LFT-A, LFT-B, LFT-C, LFT-D, LFT-E and SSNV-A	Guidance Note for Contaminated Land Assessment and Practice Guide for Investigation Remediation of Contaminated Land	No unexpected contaminated material was encountered during reporting period	N/A

Landscape & Visual Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S9.12.1.1	S.9.2	Construction Site Control CM01 - Tree Protection and Preservation Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S9.12.1.1	S.9.2	CM02 – Compensatory Tree Planting If removal of trees unavoidable due to construction impacts, trees will be compensated where technically feasible.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	No tree was removed during reporting period	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S9.12.1.1	S.9.2	CM03 - Works Area and Temporary Works Areas (Good Site Practice) The construction sequence and construction programme shall be optimized in order to minimize the duration of impact. Construction site controls shall be enforced including the storage of materials, and the location and appearance of site accommodation and site storage. The site office or temporary above-ground structures shall be sited in locations which are not visually prominent.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S9.12.1.1	S.9.2	CM04 - Advance Implementation of Mitigation Planting Replanting of existing/ disturbed vegetation shall be undertaken as soon as technically feasible.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	No replanting work was conducted during reporting period	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S9.12.1.1	S.9.2	CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S9.12.1.1	S.9.2	CM06 - Decorative Screen Hoarding Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publicly accessible routes and/ or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S9.12.1.1	S.9.2	CM07 – Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024
S9.12.1.1	S.9.2	CM08 – Topsoil reuse Excavated topsoil should be conserved for re-use by the project or other projects. This is considered a general measure for good site practice.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S9.12.1.1	S.9.2	CM09 - Channel Bed Translocation Excavated natural stream bedding should be conserved for re-use by the project. This is considered a general measure for promoting sustainability and ecological continuity.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	Ha Che: 20 February 2024 Lin Fa Tei: 20 March 2024 Sung Shan New Village: 16 April 2024

Cultural Heritage Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Table 10-3	Table 10.1	Lee Tat Bridge (GB-01) • A condition survey will be carried out in advance of works that may be affected by ground-borne vibration. The Condition Survey Report should contain descriptions of the structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring and precautionary measures that are recommended with aid of photo records. The condition survey report must be submitted to AMO for comment before construction activities commence. The contractor should implement the approved monitoring and precautionary measures; • Vibration monitoring should be undertaken during the construction works to ensure that safe levels of vibration are not exceeded. An Alert, Alarm and Action (AAA) vibration limit set at 5 / 6 / 7.5 mm/s for Grade 3 historic buildings should be adopted. A monitoring schedule, the location of monitoring equipment, the frequency of monitoring, reporting requirements and action plan should be included in the condition survey report. The location of any monitoring equipment in the building must be approved by the owner before installation;	Cultural heritage protection	Contractors	During the construction period, for Lee Tat Bridge (GB-01)	AMO Guidelines on CHIA; EIAO-TM	The condition survey report was submitted on 22 December 2023. Antiquities and Monuments Office (AMO) had no adverse comment on the report on 3 January 2024. A formal reply letter was issued by the EPD on 21 June 2024 for their acceptance on the report.	N/A

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
		• A buffer zone should be provided to separate the building or walls of the building from the construction works. The buffer zone should be clearly marked out by temporary fencing. The buffer zone should be made at least 5 m from the proposed works or if this is not possible as large as the site restrictions allow; • The contractor should ensure that safe public access is possible, through provision of clearly marked paths separated from the construction works areas, and is provided for any such affected cultural heritage structure. It is recommended that safe public access to the bridge be provided during the construction works.						
Table 10-3	Table 10.1	Lan Fong Study Hall (GB-02) • No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A	N/A
Table 10-3	Table 10.1	St. John's Chapel (GB-03) • No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A	N/A

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Table 10-1	S.10.2.1 – S.10.2.2	• The proposed drainage works in the Lin Fa Tei area near previous wooden archaeological remains; • Archaeological survey prior to construction works in area marked on Figure 10.16 of the EIA report; • A qualified archaeologist shall apply for a licence under the Antiquities and Monuments Ordinance (Cap. 53) for the archaeological fieldwork.	Identification of archaeological remains, deposits and material within survey area Identification of archaeological extent	Qualified archaeologist engaged by Contractor	Prior to construction phase	Antiquities and Monuments Ordinance	Archaeological Survey will be conducted prior to the construction works	N/A
Table 10-1	S.10.2.3	As a precautionary measure, the Antiquities and Monuments Office (AMO) should be informed immediately in case of discovery of antiquities or supposed antiquities in the course of excavation for the proposed drainage improvement works at Tai Wo area, Ha Che River area, Lin Fa Tei area (all areas except area identified for Archaeological Survey) and Sung Shan New village area, so that appropriate mitigation measures, if needed, can be timely formulated and implemented in agreement with AMO.	To ensure appropriate mitigation measures can be timely formulated and implemented to preserve archaeological data, if discovered, in agreement with AMO	Contractor	During construction phase	Antiquities and Monuments Ordinance	No antiquities or supposed antiquities was discovered during the reporting period	N/A

Appendix 2.1 Calibration Certificates of Impact Water Quality Monitoring Equipment

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD060107
Date of Issue : 03 July 2024

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	15M101091
Date of Received :	26 June 2024
Date of Calibration :	03 July 2024
Date of Next Calibration :	02 October 2024
Request No. :	D-BD060107

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H^+ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.10	0.10	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	9.90	-0.11	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
20.0	19.0	-1.0	Satisfactory
27.5	26.8	-0.7	Satisfactory
36.0	35.5	-0.5	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.90	-1.00	Satisfactory
20	20.24	1.20	Satisfactory
30	30.62	2.07	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD060107
Date of Issue : 03 July 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.55	8.34	-0.21	Satisfactory
5.80	5.60	-0.20	Satisfactory
3.40	3.40	0.00	Satisfactory
0.43	0.42	-0.01	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	2.58	--	--
10	9.62	-3.8	Satisfactory
20	19.67	-1.6	Satisfactory
100	104.41	4.4	Satisfactory
800	778.88	-2.6	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

·The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

·The results relate only to the calibrated equipment as received

·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

·"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD070022
Date of Issue : 15 July 2024

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	22C106561
Date of Received :	11 July 2024
Date of Calibration :	12 July 2024
Date of Next Calibration :	11 October 2024
Request No. :	D-BD070022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H^+ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.03	0.03	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
16.0	14.7	-1.3	Satisfactory
25.5	24.1	-1.4	Satisfactory
32.0	30.8	-1.2	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.01	0.10	Satisfactory
20	20.21	1.05	Satisfactory
30	30.90	3.00	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD070022
Date of Issue : 15 July 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.50	8.56	0.06	Satisfactory
7.11	6.66	-0.45	Satisfactory
4.31	4.13	-0.18	Satisfactory
0.69	0.30	-0.39	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	-0.12	--	--
10	9.88	-1.2	Satisfactory
20	19.42	-2.9	Satisfactory
100	97.08	-2.9	Satisfactory
800	743.03	-7.1	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

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--- END OF REPORT ---

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD080045
Date of Issue : 16 August 2024
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	24G101660
Date of Received :	15 August 2024
Date of Calibration :	16 August 2024
Date of Next Calibration :	16 November 2024
Request No. :	D-BD080045

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H^+ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Oxidation-Reduction Potential	APHA 22e 2580 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.05	0.05	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	10.00	-0.01	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
18.0	17.3	-0.7	Satisfactory
26.0	24.5	-1.5	Satisfactory
32.0	31.6	-0.4	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.73	7.30	Satisfactory
20	21.86	9.30	Satisfactory
30	32.09	6.97	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD080045
Date of Issue : 16 August 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.09	8.18	0.09	Satisfactory
7.53	7.89	0.36	Satisfactory
6.52	6.27	-0.25	Satisfactory
1.92	1.57	-0.35	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Oxidation-Reduction Potential

Expected Reading	Display Reading	Tolerance	Result
229	224.5	-4.5	Satisfactory

Tolerance of Oxidation-Reduction Potential should be less than ± 10.0 (mV)

(6) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance [a] (%)	Result
0	0.59	--	--
10	10.27	2.7	Satisfactory
20	19.59	-2.1	Satisfactory
100	93.87	-6.1	Satisfactory
800	723.00	-9.6	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

[a] For 0 NTU, Display Reading should be less than 1 NTU

Remark(s)

·The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

·The results relate only to the calibrated equipment as received

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--- END OF REPORT ---

Appendix 2.2 Event and Action Plan for Water Quality Exceedance

Event and Action Plan for Water Quality

Event	Action			
	ET [1]	IEC [1]	ER [1]	Contractor
Action Level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Check monitoring data, all plant, equipment and the Contractor's working methods; 5. Discuss mitigation measures with the IEC and the Contractor; 6. Repeat measurement on next day of exceedance.	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER; 6. Implement the agreed mitigation measures.
Action Level being exceeded by more than one consecutive sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC and the Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC and the Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; 8. Repeat measurement on next day of exceedance.	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures.

Event	Action			
	ET [1]	IEC [1]	ER [1]	Contractor
Limit Level being exceeded by one sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform the IEC, the Contractor and the DEP; 4. Check monitoring data, all plant, equipment and the Contractor's working methods; 5. Discuss mitigation measures with the IEC, the ER and the Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level.	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request the Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures.

Event	Action			
	ET [1]	IEC [1]	ER [1]	Contractor
Limit Level being exceeded by more than one consecutive sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact. 3. Inform the IEC, the Contractor and the DEP; 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Discuss mitigation measures with the IEC, the ER and the Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days.	1. Discuss with the ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works until no exceedance of Limit Level.	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures; 7. As directed by the ER, slow down or stop all or part of the construction activities.

Note (1) ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative, DEP – Director of Environmental Protection.

Appendix 2.3 Impact Monitoring Schedule of the Reporting Month

Impact Noise & Water Monitoring Schedule for Contract No. DC/2022/02 Drainage Improvement Works at Yuen Long Stage 2 (Version 0)

August 2024

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**2**	**3** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
4	**5**	**6** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**7** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**8** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**9**	**10** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
11	**12**	**13** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**14**	**15** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**16** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**17** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
18	**19**	**20** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**21**	**22** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**23** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**24** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
25	**26**	**27** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**28** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**29** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**30**	**31** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10

Noise Monitoring Locations:
Noise monitoring stations at Ha Che: HC_M3A, HC_M4, and HC_M6
Noise monitoring stations at Tai Wo: TW_M2 and TW_M3
Noise monitoring stations at Lin Fa Tei: LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11
Noise monitoring stations at Sung Shan New Village: SSNV_M2, SSNV_M3, and SSNV_M6

Water Monitoring Locations:
Water quality monitoring stations at Ha Che: C9 and C10
Water quality monitoring stations at Tai Wo: C4 and C5
Water quality monitoring stations at Lin Fa Tei: C6, C7A, and C8
Water quality monitoring stations at Sung Shan New Village: C1A, C2, and C3A

Remarks:
1. The schedule may be changed due to unforeseen circumstances (e.g. adverse weather, etc.)
2. As stipulated in EP No.: EP-596/2021 condition 3.2 and confirmed by the Contractor , no construction work is scheduled at Tai Wo between April 2024 and September 2024. Thus, impact noise monitoring and impact water quality monitoring, will be suspended between April 2024 and September 2024

Appendix 2.4 Impact Water Quality Monitoring Data

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C1A

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C1A	20240801	Cloudy	15:30	6.81	91.8	7.40	0.06	29.80	4.88	<2.5	
C1A	20240801	Cloudy	15:30	6.77	91.2	7.40	0.06	29.80	4.96	<2.5	
C1A	20240803	Sunny	11:25	7.38	99.5	7.14	0.04	30.10	6.68	<2.5	
C1A	20240803	Sunny	11:25	7.25	97.7	7.15	0.04	30.10	6.73	<2.5	
C1A	20240806	Cloudy	15:36	7.13	93.7	7.12	0.08	31.40	4.55	<2.5	
C1A	20240806	Cloudy	15:36	7.21	94.8	7.13	0.08	31.40	4.63	2.7	
C1A	20240808	Cloudy	15:25	7.28	95.3	7.35	0.06	30.10	5.48	<2.5	
C1A	20240808	Cloudy	15:25	7.32	95.9	7.36	0.06	30.10	5.66	<2.5	
C1A	20240810	Cloudy	11:20	6.95	90.1	7.36	0.06	31.20	5.88	<2.5	
C1A	20240810	Cloudy	11:20	6.88	89.3	7.37	0.06	31.20	5.96	<2.5	
C1A	20240813	Cloudy	15:37	6.88	91.7	7.12	0.08	31.40	4.55	<2.5	
C1A	20240813	Cloudy	15:37	6.87	91.6	7.13	0.08	31.40	4.63	<2.5	
C1A	20240815	Cloudy	15:33	7.02	76.7	7.68	0.09	28.60	4.95	<2.5	
C1A	20240815	Cloudy	15:33	6.99	76.5	7.67	0.09	28.60	5.04	2.8	
C1A	20240817	Cloudy	11:06	7.39	81.1	7.43	0.11	28.10	4.96	7.6	
C1A	20240817	Cloudy	11:06	7.39	81.0	7.43	0.11	28.10	5.02	6.8	
C1A	20240820	Cloudy	15:48	7.18	96.8	7.68	0.07	29.10	5.44	<2.5	
C1A	20240820	Cloudy	15:48	7.20	97.0	7.68	0.07	29.10	5.48	<2.5	
C1A	20240822	Sunny	13:56	7.07	93.2	7.17	0.05	29.80	2.92	<2.5	
C1A	20240822	Sunny	13:56	7.11	93.7	7.18	0.05	29.80	3.08	<2.5	
C1A	20240824	Fine	8:35	8.59	104.8	7.31	0.07	25.30	2.98	<2.5	
C1A	20240824	Fine	8:35	8.62	104.9	7.36	0.08	25.40	3.02	<2.5	
C1A	20240827	Sunny	16:02	7.35	97.0	7.66	0.13	28.80	4.6	<2.5	
C1A	20240827	Sunny	16:02	7.34	96.8	7.65	0.13	28.80	4.69	<2.5	
C1A	20240829	Cloudy	13:26	7.08	88.0	7.52	0.10	28.50	5.33	<2.5	
C1A	20240829	Cloudy	13:26	7.08	87.9	7.51	0.10	28.50	5.58	<2.5	
C1A	20240831	Cloudy	10:33	7.35	93.2	7.58	0.12	28.10	4.99	<2.5	
C1A	20240831	Cloudy	10:33	7.34	93.0	7.58	0.12	28.10	4.94	<2.5	

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C2

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C2	20240801	Cloudy	15:15	6.50	87.6	7.21	0.08	30.20	5.31	6.9	
C2	20240801	Cloudy	15:15	6.66	89.7	7.23	0.08	30.20	5.39	8.6	
C2	20240803	Sunny	11:18	6.78	91.4	7.30	0.09	30.60	6.11	4.3	
C2	20240803	Sunny	11:18	6.83	92.1	7.31	0.09	30.60	6.09	4.7	
C2	20240806	Cloudy	15:22	6.90	90.7	7.33	0.09	30.80	6.35	6.8	
C2	20240806	Cloudy	15:22	6.85	90	7.34	0.09	30.80	6.42	4.4	
C2	20240808	Cloudy	15:18	7.11	93.1	7.20	0.10	29.80	6.21	4.2	
C2	20240808	Cloudy	15:18	7.13	93.4	7.20	0.10	29.80	6.29	<2.5	
C2	20240810	Cloudy	11:09	6.45	83.6	7.25	0.07	30.20	6.12	<2.5	
C2	20240810	Cloudy	10:10	6.39	82.9	7.26	0.07	30.20	6.04	<2.5	
C2	20240813	Cloudy	15:20	6.20	83.7	7.33	0.09	30.80	6.35	<2.5	
C2	20240813	Cloudy	15:20	6.15	83.0	7.34	0.09	30.80	6.42	2.9	
C2	20240815	Cloudy	15:26	6.50	70.9	8.13	0.11	27.20	4.56	6.3	
C2	20240815	Cloudy	15:26	6.47	70.7	8.12	0.11	27.20	4.69	3.8	
C2	20240817	Cloudy	10:55	6.48	71.3	7.90	0.12	28.00	4.4	13.0	
C2	20240817	Cloudy	10:55	6.47	71.1	7.90	0.12	28.00	4.41	13.0	
C2	20240820	Cloudy	15:40	6.88	92.7	7.88	0.06	28.60	6.33	<2.5	
C2	20240820	Cloudy	15:40	6.91	93.1	7.89	0.06	28.60	6.21	<2.5	
C2	20240822	Sunny	13:52	7.99	102.5	7.24	0.02	28.30	5.04	<2.5	
C2	20240822	Sunny	13:52	7.96	102.2	7.22	0.02	28.30	4.89	<2.5	
C2	20240824	Fine	8:46	7.56	103.5	7.21	0.05	26.80	4.92	2.7	
C2	20240824	Fine	8:46	7.65	103.8	7.34	0.05	26.90	4.86	2.9	
C2	20240827	Sunny	15:52	6.11	80.4	7.85	0.14	29.10	4.52	<2.5	
C2	20240827	Sunny	15:52	6.07	80.1	7.84	0.14	29.10	4.65	<2.5	
C2	20240829	Cloudy	13:16	6.35	78.8	7.75	0.11	28.80	6.91	<2.5	
C2	20240829	Cloudy	13:16	6.27	78.5	7.76	0.11	28.80	6.47	<2.5	
C2	20240831	Cloudy	10:25	6.32	79.9	7.84	0.14	27.80	5.44	<2.5	
C2	20240831	Cloudy	10:25	6.30	79.7	7.82	0.14	27.80	5.67	<2.5	

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Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C3A

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C3A	20240801	Cloudy	15:06	7.53	101.5	7.58	0.05	28.50	3.69	5.1	
C3A	20240801	Cloudy	15:07	7.36	99.2	7.54	0.05	28.50	3.71	6.0	
C3A	20240803	Sunny	10:59	6.99	94.2	7.48	0.03	28.90	3.43	5.0	
C3A	20240803	Sunny	11:00	7.03	94.8	7.44	0.03	28.90	3.21	<2.5	
C3A	20240806	Cloudy	15:11	7.59	99.8	7.38	0.05	29.30	3.21	4.1	
C3A	20240806	Cloudy	15:11	7.63	100.3	7.36	0.05	29.30	3.35	5.8	
C3A	20240808	Cloudy	15:01	7.69	100.7	7.29	0.06	29.10	3.05	<2.5	
C3A	20240808	Cloudy	15:01	7.73	101.2	7.29	0.06	29.10	2.91	<2.5	
C3A	20240810	Cloudy	10:58	8.01	102.3	7.45	0.04	29.50	2.88	<2.5	
C3A	20240810	Cloudy	10:58	7.89	100.8	7.45	0.04	29.50	2.95	2.8	
C3A	20240813	Cloudy	15:09	8.66	112.1	7.38	0.05	29.30	3.21	<2.5	
C3A	20240813	Cloudy	15:09	8.65	112.0	7.36	0.05	29.30	3.35	<2.5	
C3A	20240815	Cloudy	15:09	7.59	83.2	7.67	0.03	27.10	3.72	3.8	
C3A	20240815	Cloudy	15:09	7.58	83.4	7.63	0.03	27.10	3.62	3.1	
C3A	20240817	Cloudy	10:36	8.15	89.0	7.65	0.05	27.60	3.66	10.0	
C3A	20240817	Cloudy	10:36	8.19	89.4	7.62	0.05	27.60	3.47	13.0	
C3A	20240820	Cloudy	15:29	6.86	92.4	7.20	0.03	28.30	3.21	<2.5	
C3A	20240820	Cloudy	15:29	6.81	91.8	7.20	0.03	28.30	3.24	<2.5	
C3A	20240822	Sunny	13:44	8.04	102.2	7.37	0.02	27.70	5.42	<2.5	
C3A	20240822	Sunny	13:44	8.03	102.1	7.33	0.02	27.70	5.51	<2.5	
C3A	20240824	Fine	9:01	8.42	111.6	7.95	0.03	27.30	6.88	5.1	
C3A	20240824	Fine	9:01	8.37	111.9	7.89	0.03	27.40	6.87	7.6	
C3A	20240827	Sunny	15:36	8.46	110.7	7.86	0.01	27.50	3.83	<2.5	
C3A	20240827	Sunny	15:37	8.42	111.0	7.82	0.01	27.50	3.73	<2.5	
C3A	20240829	Cloudy	12:56	7.69	95.6	7.50	0.05	27.40	3.71	2.9	
C3A	20240829	Cloudy	12:56	7.72	95.9	7.46	0.05	27.40	3.41	3.3	
C3A	20240831	Cloudy	10:12	7.76	98.2	7.93	0.01	27.10	4.02	3.2	
C3A	20240831	Cloudy	10:12	7.83	98.5	7.88	0.01	27.10	3.7	3.9	

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Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C6

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C6	20240801	Cloudy	13:58	8.21	110.6	7.69	0.05	27.70	4.82	5.6	
C6	20240801	Cloudy	13:58	8.25	111.2	7.71	0.05	27.70	4.9	6.5	
C6	20240803	Sunny	9:30	7.68	103.5	7.76	0.08	28.10	6.03	2.9	
C6	20240803	Sunny	9:30	7.59	102.3	7.79	0.08	28.10	6.18	3.7	
C6	20240806	Cloudy	13:59	7.21	94.8	7.55	0.08	28.40	4.69	3.1	
C6	20240806	Cloudy	13:59	7.33	96.3	7.55	0.08	28.40	4.78	5.2	
C6	20240808	Cloudy	13:51	7.44	97.4	7.41	0.09	28.20	5.73	<2.5	
C6	20240808	Cloudy	13:51	7.46	97.7	7.41	0.09	28.20	5.88	<2.5	
C6	20240810	Cloudy	9:41	8.28	105.8	7.34	0.09	28.80	6.78	<2.5	
C6	20240810	Cloudy	9:41	8.34	106.5	7.34	0.09	28.80	6.89	<2.5	
C6	20240813	Cloudy	13:56	9.15	117.1	7.55	0.08	28.40	4.69	<2.5	
C6	20240813	Cloudy	13:56	9.15	117.1	7.55	0.08	28.40	4.78	<2.5	
C6	20240815	Cloudy	13:59	8.76	95.8	8.15	0.08	29.80	6.38	3.8	
C6	20240815	Cloudy	13:59	8.75	96.1	8.15	0.08	29.80	6.63	4.5	
C6	20240817	Cloudy	9:19	8.92	97.1	8.35	0.07	30.20	5.71	7.0	
C6	20240817	Cloudy	9:19	8.95	97.3	8.33	0.07	30.20	5.81	11.0	
C6	20240820	Cloudy	14:08	7.12	95.9	8.01	0.12	27.80	5.68	<2.5	
C6	20240820	Cloudy	14:08	7.09	95.5	8.01	0.12	27.80	5.73	<2.5	
C6	20240822	Sunny	12:47	6.38	82.3	7.29	0.09	28.60	4.16	3.5	
C6	20240822	Sunny	12:47	6.37	82.2	7.28	0.09	28.60	4.28	3.9	
C6	20240824	Fine	9:14	8.45	116.5	7.81	0.06	27.10	4.86	13.0	
C6	20240824	Fine	9:14	8.49	116.8	7.92	0.06	27.30	4.82	8.0	
C6	20240827	Sunny	14:21	8.17	107.5	7.99	0.06	27.70	6.16	<2.5	
C6	20240827	Sunny	14:21	8.22	107.9	7.99	0.06	27.70	6.41	<2.5	
C6	20240829	Cloudy	11:47	8.13	101.1	8.29	0.06	29.60	6.42	5.6	
C6	20240829	Cloudy	11:47	8.15	101.5	8.27	0.06	29.60	6.74	8.3	
C6	20240831	Cloudy	9:18	8.41	106.5	7.97	0.07	29.50	7.28	<2.5	
C6	20240831	Cloudy	9:18	8.49	106.9	7.99	0.07	29.50	7.66	<2.5	

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Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C7A

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C7A	20240801	Cloudy	14:25	5.44	73.3	7.31	0.12	29.10	4.11	5.2	
C7A	20240801	Cloudy	14:25	5.56	74.9	7.33	0.12	29.10	3.99	5.6	
C7A	20240803	Sunny	10:00	6.01	81.0	7.15	0.15	29.30	4.59	6.0	
C7A	20240803	Sunny	10:00	5.86	79.0	7.18	0.15	29.30	4.67	6.9	
C7A	20240806	Cloudy	14:24	6.21	81.6	7.20	0.14	29.80	3.88	6.4	
C7A	20240806	Cloudy	14:24	6.28	82.5	7.20	0.14	29.80	3.95	7.4	
C7A	20240808	Cloudy	14:18	6.99	89.1	7.26	0.13	29.50	4.28	2.5	
C7A	20240808	Cloudy	14:18	7.03	89.6	7.26	0.13	29.50	4.39	2.6	
C7A	20240810	Cloudy	10:04	5.58	71.3	7.21	0.11	29.40	5.44	<2.5	
C7A	20240810	Cloudy	10:04	5.67	72.4	7.20	0.11	29.40	5.38	3.3	
C7A	20240813	Cloudy	14:25	4.93	64.8	7.20	0.14	29.80	3.88	<2.5	
C7A	20240813	Cloudy	14:25	4.90	64.4	7.20	0.14	29.80	3.95	4.3	
C7A	20240815	Cloudy	14:26	7.20	78.6	7.60	0.14	28.60	7.32	5.0	
C7A	20240815	Cloudy	14:26	7.14	78.5	7.57	0.14	28.60	6.99	6.2	
C7A	20240817	Cloudy	9:42	7.47	82.2	7.55	0.12	28.50	8.32	11.0	
C7A	20240817	Cloudy	9:42	7.52	82.1	7.52	0.12	28.50	7.31	12.0	
C7A	20240820	Cloudy	14:43	6.33	85.4	7.98	0.14	29.70	5.69	<2.5	
C7A	20240820	Cloudy	14:43	6.38	86.1	7.98	0.14	29.70	5.73	3.6	
C7A	20240822	Sunny	13:03	6.68	89.0	7.60	0.13	30.40	4.3	9.5	
C7A	20240822	Sunny	13:04	6.67	88.9	7.58	0.13	30.40	4.28	9.2	
C7A	20240824	Fine	9:23	6.58	89.6	7.65	0.08	27.80	5.66	11.0	
C7A	20240824	Fine	9:23	6.61	89.3	7.67	0.08	27.80	5.68	15.0	
C7A	20240827	Sunny	14:45	7.72	101.4	7.81	0.11	28.40	7.63	2.8	
C7A	20240827	Sunny	14:45	7.70	101.3	7.78	0.11	28.40	7.3	<2.5	
C7A	20240829	Cloudy	12:12	7.76	96.7	7.64	0.11	28.70	7.74	10.0	
C7A	20240829	Cloudy	12:12	7.78	96.6	7.48	0.11	28.70	6.88	10.0	
C7A	20240831	Cloudy	9:30	7.33	92.4	7.91	0.12	29.10	7.21	<2.5	
C7A	20240831	Cloudy	9:30	7.30	92.3	7.90	0.12	29.10	6.78	<2.5	

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Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Water Quality Monitoring Location: C8

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C8	20240801	Cloudy	14:38	7.77	104.7	7.45	0.09	28.80	5.87	<2.5	
C8	20240801	Cloudy	14:38	7.83	105.5	7.44	0.09	28.80	5.73	<2.5	
C8	20240803	Sunny	10:16	7.63	102.9	7.36	0.08	29.00	5.11	<2.5	
C8	20240803	Sunny	10:16	7.70	103.8	7.38	0.08	29.00	5.05	<2.5	
C8	20240806	Cloudy	14:39	7.09	93.2	7.48	0.07	30.00	5.48	<2.5	
C8	20240806	Cloudy	14:39	7.22	94.9	7.48	0.07	30.00	5.61	2.7	
C8	20240808	Cloudy	14:33	7.58	96.6	7.35	0.06	29.90	5.66	<2.5	
C8	20240808	Cloudy	14:33	7.65	97.5	7.36	0.06	29.90	5.78	<2.5	
C8	20240810	Cloudy	10:25	7.48	95.5	7.40	0.06	29.90	5.66	<2.5	
C8	20240810	Cloudy	10:25	7.59	97.0	7.40	0.06	29.90	5.73	<2.5	
C8	20240813	Cloudy	14:38	8.06	106.0	7.48	0.07	30.00	5.48	<2.5	
C8	20240813	Cloudy	14:38	8.05	105.8	7.48	0.07	30.00	5.61	<2.5	
C8	20240815	Cloudy	14:44	6.77	74.3	7.62	0.13	28.10	7.76	3.0	
C8	20240815	Cloudy	14:45	6.78	74.1	7.60	0.13	28.10	7.85	<2.5	
C8	20240817	Cloudy	9:59	7.51	82.3	7.66	0.13	28.00	7.68	2.3	
C8	20240817	Cloudy	9:59	7.49	82.1	7.62	0.13	28.00	7.24	3.3	
C8	20240820	Cloudy	14:59	7.28	98.1	7.77	0.09	28.80	6.29	<2.5	
C8	20240820	Cloudy	15:00	7.31	98.5	7.77	0.09	28.80	6.35	<2.5	
C8	20240822	Sunny	13:17	6.53	86.0	7.48	0.09	29.70	5.41	3.5	
C8	20240822	Sunny	13:18	6.28	82.7	7.41	0.09	29.70	5.81	2.9	
C8	20240824	Fine	9:50	7.65	103.6	7.58	0.09	28.10	6.52	5.4	
C8	20240824	Fine	9:50	7.69	104.7	7.62	0.09	28.00	6.56	6.8	
C8	20240827	Sunny	15:03	7.03	92.4	7.85	0.13	28.90	7.5	<2.5	
C8	20240827	Sunny	15:03	7.01	92.1	7.83	0.13	28.90	7.59	<2.5	
C8	20240829	Cloudy	12:28	7.62	95.0	7.57	0.13	28.50	7.95	3.3	
C8	20240829	Cloudy	12:28	7.58	94.7	7.53	0.13	28.50	7.54	4.0	
C8	20240831	Cloudy	9:40	6.88	86.7	7.44	0.09	27.70	7.87	<2.5	
C8	20240831	Cloudy	9:40	6.87	86.5	7.43	0.09	27.70	7.94	<2.5	

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Water Quality Monitoring Result

Water Quality Monitoring Location: C9

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C9	20240801	Cloudy	13:15	8.68	116.9	7.68	0.04	26.90	3.77	5.1	
C9	20240801	Cloudy	13:15	8.79	118.4	7.63	0.04	26.90	3.85	5.9	
C9	20240803	Sunny	8:46	8.11	109.3	7.61	0.06	27.60	4.11	<2.5	
C9	20240803	Sunny	8:46	8.06	108.7	7.59	0.06	27.70	4.15	<2.5	
C9	20240806	Cloudy	13:12	8.35	109.7	7.66	0.06	27.20	5.11	3.4	
C9	20240806	Cloudy	13:12	8.46	111.2	7.66	0.06	27.20	5.28	3.0	
C9	20240808	Cloudy	13:10	8.01	96.8	7.68	0.08	27.80	6.13	<2.5	
C9	20240808	Cloudy	13:10	7.99	96.6	7.68	0.08	27.80	6.22	<2.5	
C9	20240810	Cloudy	8:49	8.46	108.1	7.53	0.08	27.50	4.21	<2.5	
C9	20240810	Cloudy	8:50	8.57	109.5	7.53	0.08	27.50	4.33	<2.5	
C9	20240813	Cloudy	13:11	9.19	114.8	7.66	0.06	27.20	5.11	<2.5	
C9	20240813	Cloudy	13:11	9.18	114.7	7.66	0.06	27.20	5.28	<2.5	
C9	20240815	Cloudy	13:13	8.35	91.8	7.78	0.07	26.80	6.17	4.3	
C9	20240815	Cloudy	13:13	8.37	91.7	7.75	0.07	26.80	6.61	5.7	
C9	20240817	Cloudy	8:38	8.71	95.1	7.98	0.11	27.20	5.96	7.6	
C9	20240817	Cloudy	8:38	8.66	95.0	7.94	0.11	27.20	6.44	8.1	
C9	20240820	Cloudy	13:19	8.01	106.0	7.98	0.11	27.90	7.11	2.5	
C9	20240820	Cloudy	13:19	7.98	105.6	7.98	0.11	27.90	7.08	2.9	
C9	20240822	Sunny	11:58	8.58	105.6	7.95	0.05	25.90	8.73	8.3	
C9	20240822	Sunny	11:58	8.59	105.6	7.94	0.05	25.90	8.41	8.9	
C9	20240824	Fine	10:16	8.69	111.6	7.59	0.06	26.80	8.22	10.0	
C9	20240824	Fine	10:16	8.74	111.9	7.46	0.06	26.90	8.24	8.1	
C9	20240827	Sunny	13:40	8.13	106.7	7.68	0.09	26.80	6.45	<2.5	
C9	20240827	Sunny	13:40	8.14	106.5	7.65	0.09	26.80	6.89	<2.5	
C9	20240829	Cloudy	11:07	9.10	113.6	7.94	0.11	26.20	6.14	3.6	
C9	20240829	Cloudy	11:07	9.10	113.4	7.91	0.11	26.20	6.26	4.9	
C9	20240831	Cloudy	8:41	8.49	106.9	8.05	0.10	27.10	5.84	<2.5	
C9	20240831	Cloudy	8:41	8.46	106.8	8.04	0.10	27.10	6.44	<2.5	

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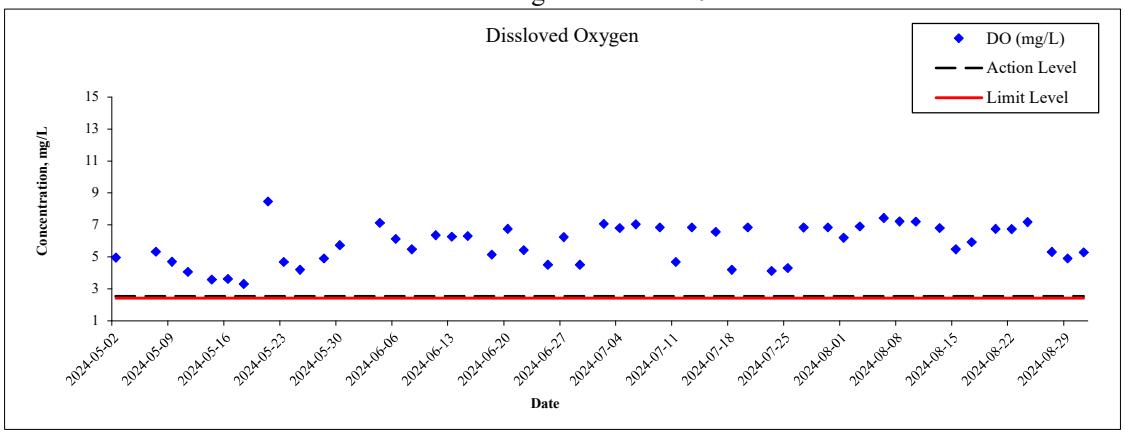
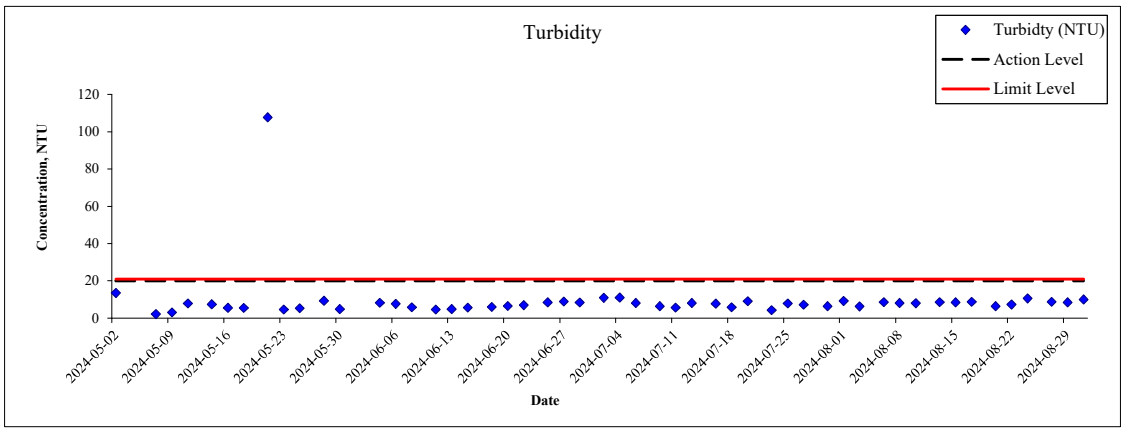
Water Quality Monitoring Result

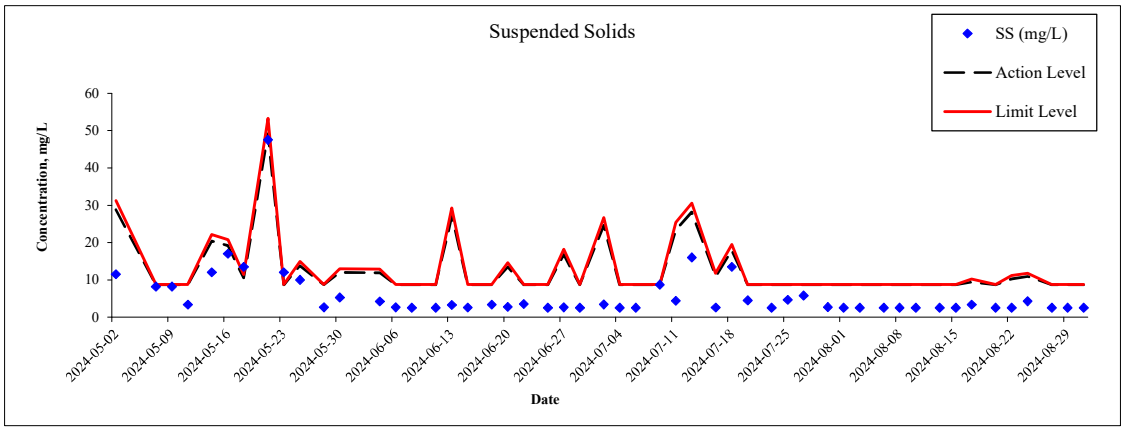
Water Quality Monitoring Location: C10

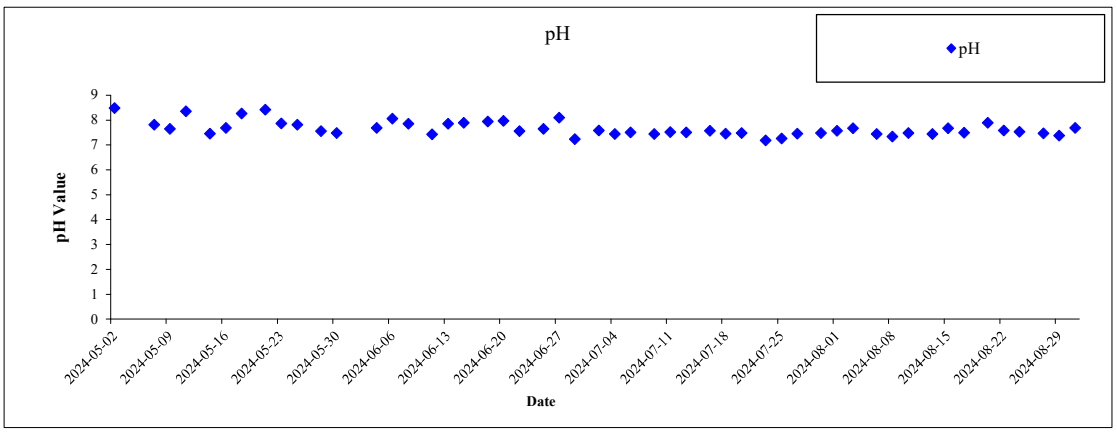
Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C10	20240801	Cloudy	13:26	6.23	83.9	7.55	0.03	28.10	9.21	<2.5	
C10	20240801	Cloudy	13:26	6.17	83.1	7.58	0.03	28.10	9.13	<2.5	
C10	20240803	Sunny	8:59	6.83	92.1	7.66	0.07	28.40	6.21	<2.5	
C10	20240803	Sunny	8:59	6.97	94.0	7.68	0.07	28.40	6.35	<2.5	
C10	20240806	Cloudy	13:24	7.54	99.1	7.44	0.08	28.30	8.73	<2.5	
C10	20240806	Cloudy	13:24	7.33	96.3	7.44	0.08	28.30	8.54	<2.5	
C10	20240808	Cloudy	13:20	7.25	87.6	7.33	0.09	28.20	8.25	<2.5	
C10	20240808	Cloudy	13:21	7.18	86.8	7.34	0.09	28.20	8.16	<2.5	
C10	20240810	Cloudy	9:03	7.14	91.2	7.48	0.06	28.60	7.98	<2.5	
C10	20240810	Cloudy	9:03	7.27	92.9	7.48	0.06	28.60	8.21	<2.5	
C10	20240813	Cloudy	13:22	6.84	87.5	7.44	0.08	28.30	8.73	<2.5	
C10	20240813	Cloudy	13:22	6.77	86.7	7.44	0.08	28.30	8.54	<2.5	
C10	20240815	Cloudy	13:25	5.53	60.3	7.66	0.10	26.80	8.76	<2.5	
C10	20240815	Cloudy	13:25	5.41	59.4	7.66	0.10	26.80	8.21	<2.5	
C10	20240817	Cloudy	8:50	5.98	65.2	7.49	0.10	26.90	8.95	3.3	
C10	20240817	Cloudy	8:50	5.88	64.3	7.49	0.10	26.90	8.47	3.3	
C10	20240820	Cloudy	13:33	6.77	89.6	7.88	0.07	28.10	6.33	<2.5	
C10	20240820	Cloudy	13:33	6.73	89.1	7.89	0.07	28.10	6.39	<2.5	
C10	20240822	Sunny	12:16	6.75	85.9	7.61	0.06	27.80	7.34	<2.5	
C10	20240822	Sunny	12:16	6.73	85.6	7.55	0.06	27.80	7.45	<2.5	
C10	20240824	Fine	10:41	7.20	94.2	7.54	0.07	27.80	10.63	4.9	
C10	20240824	Fine	10:41	7.16	94.3	7.51	0.07	27.80	10.65	3.6	
C10	20240827	Sunny	13:55	5.35	70.4	7.46	0.10	27.10	9.04	<2.5	
C10	20240827	Sunny	13:55	5.27	69.4	7.46	0.10	27.10	8.49	<2.5	
C10	20240829	Cloudy	11:17	4.98	61.7	7.36	0.12	27.30	8.94	<2.5	
C10	20240829	Cloudy	11:17	4.84	60.7	7.38	0.12	27.30	8.14	<2.5	
C10	20240831	Cloudy	8:51	5.31	67.0	7.67	0.10	26.60	9.98	<2.5	
C10	20240831	Cloudy	8:51	5.25	66.0	7.69	0.10	26.60	10.11	<2.5	

Monitoring Location: C10

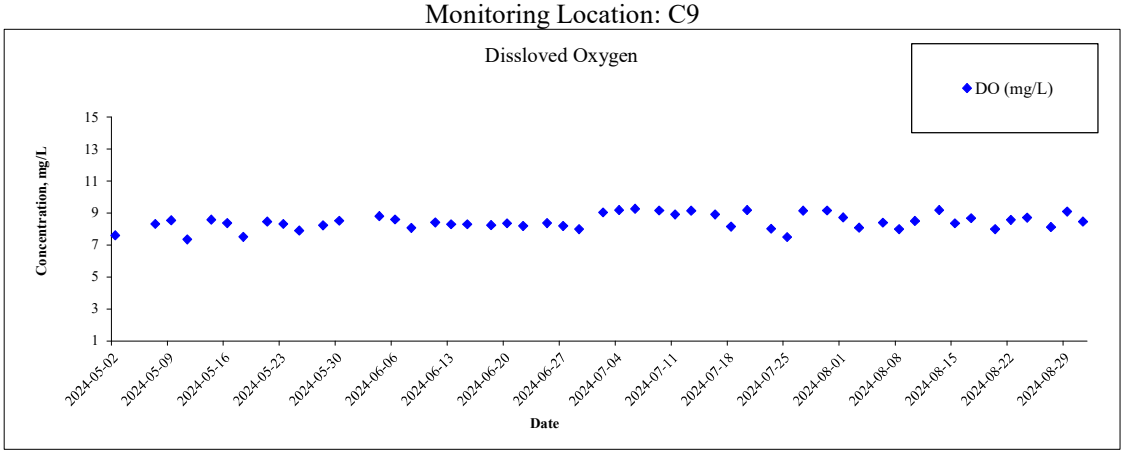


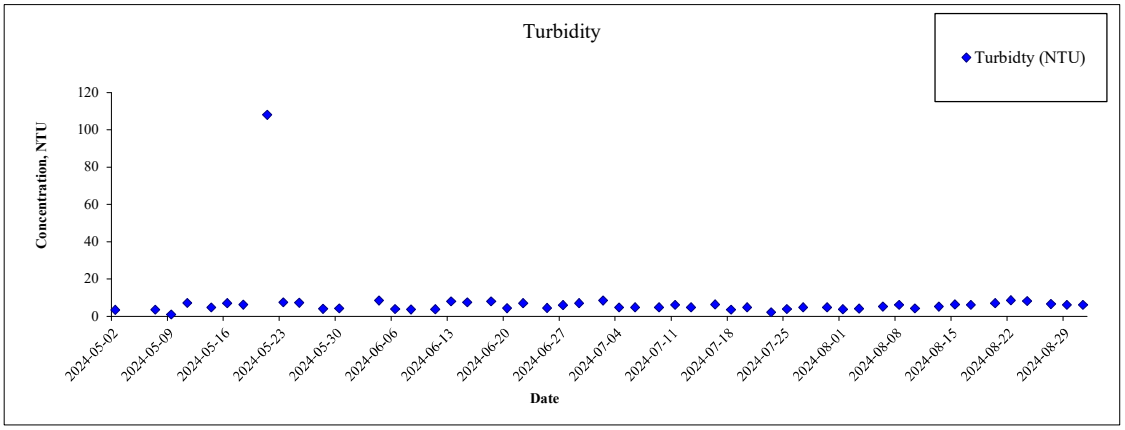


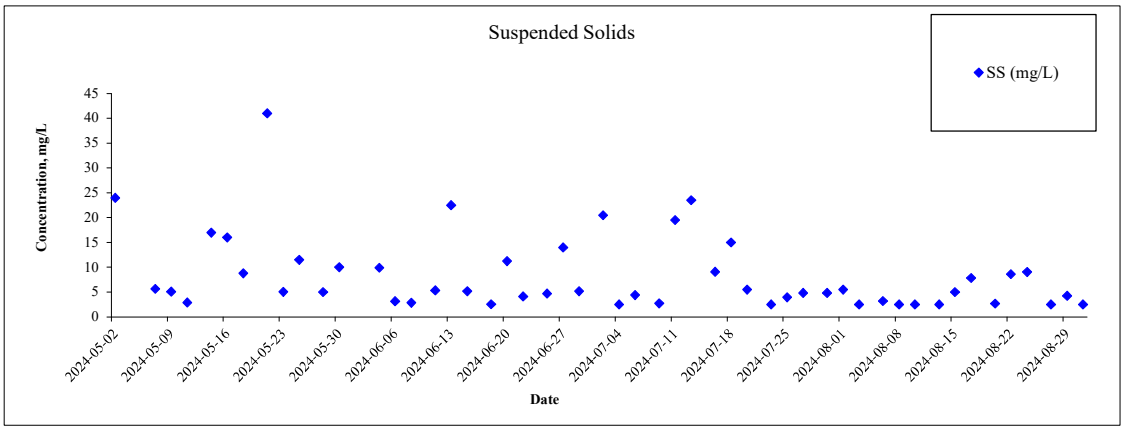


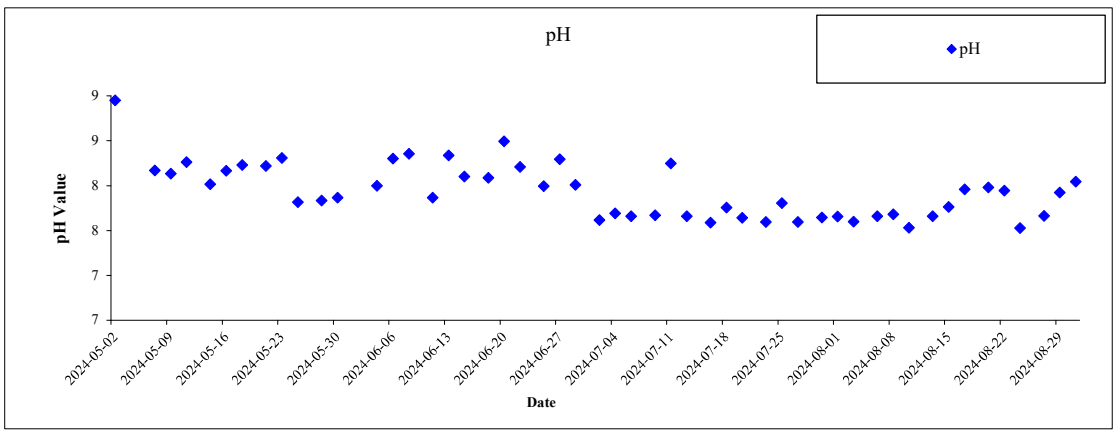


Monitoring Location: C9

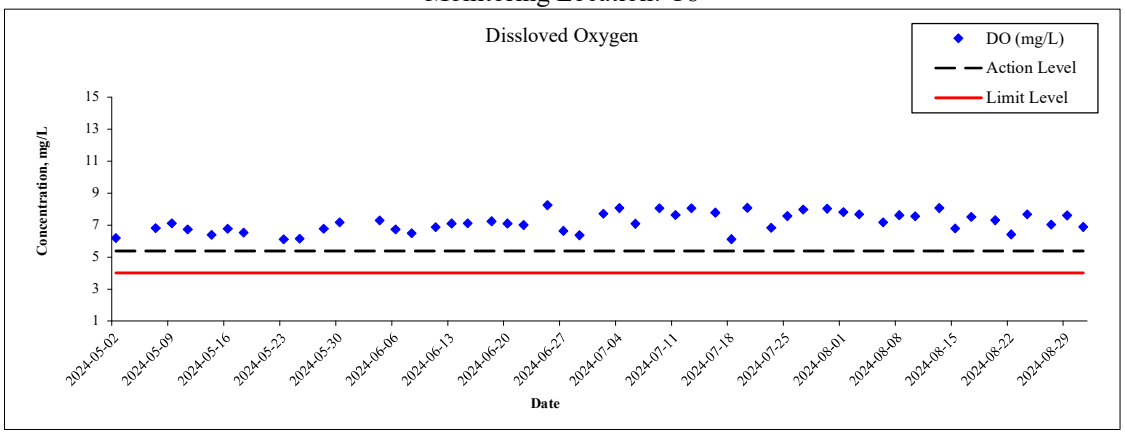


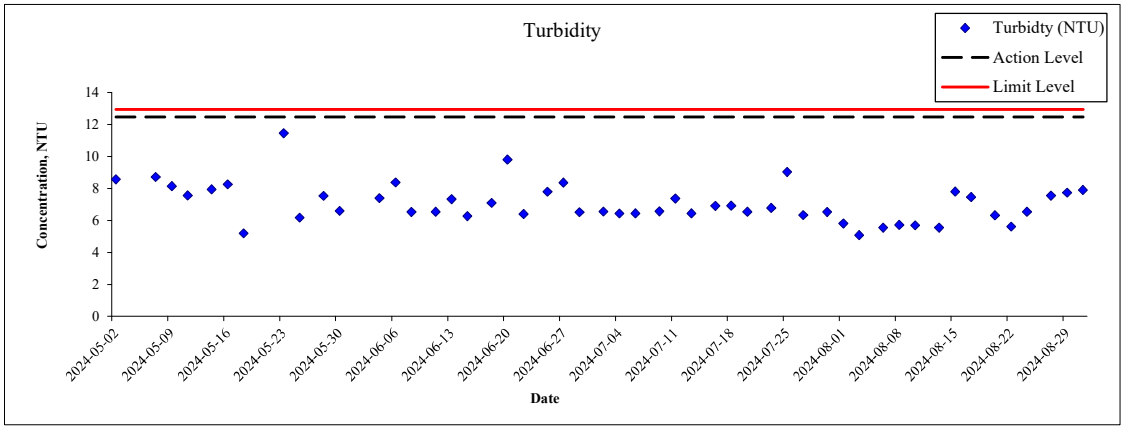


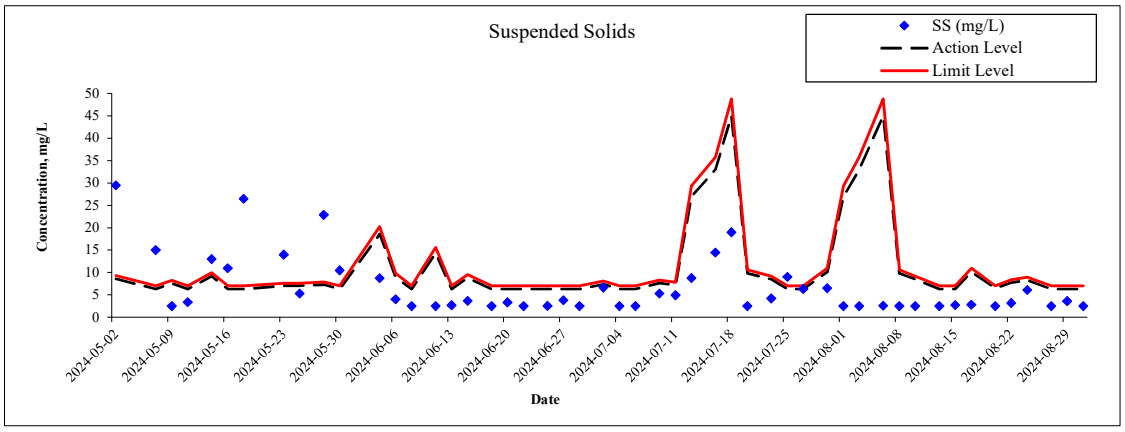


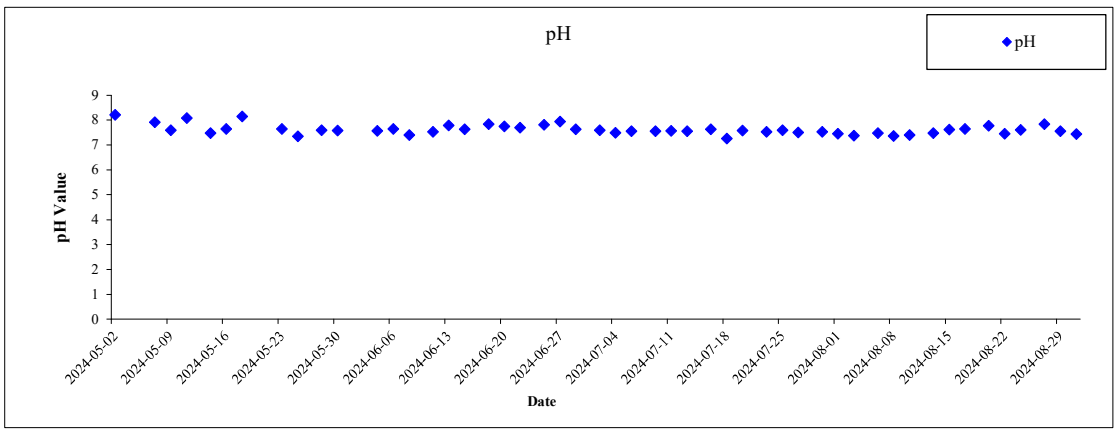


Monitoring Location: C8

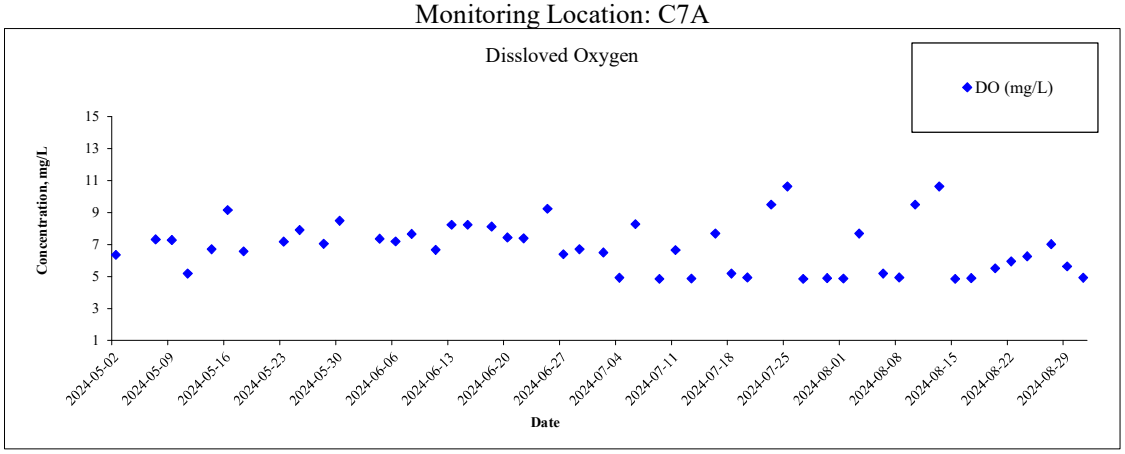


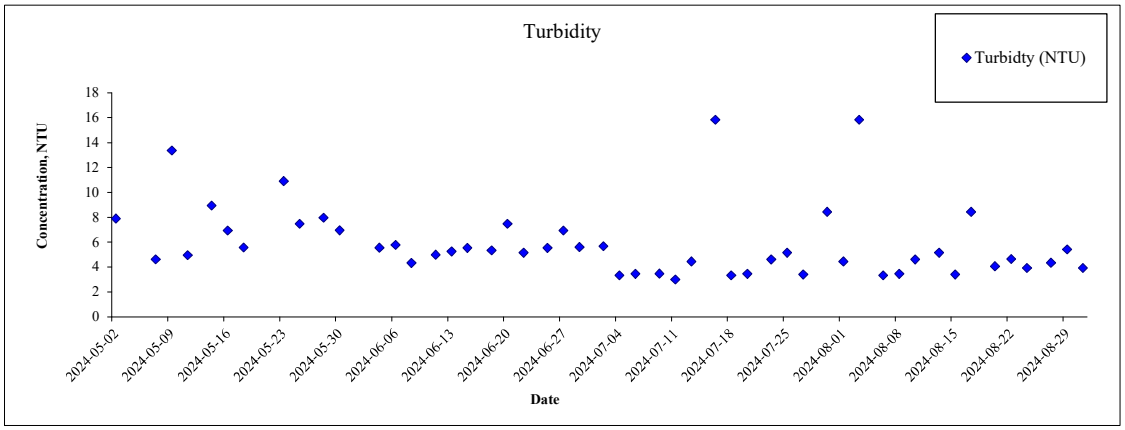


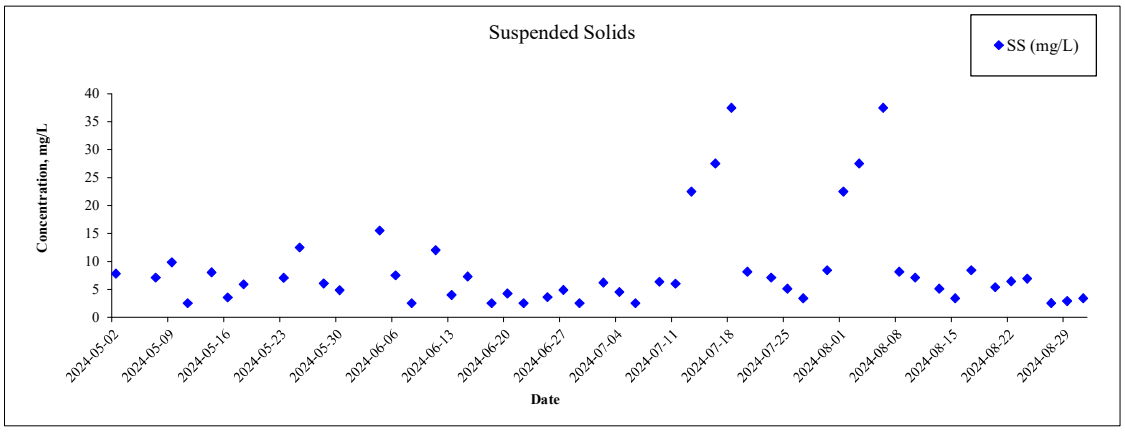


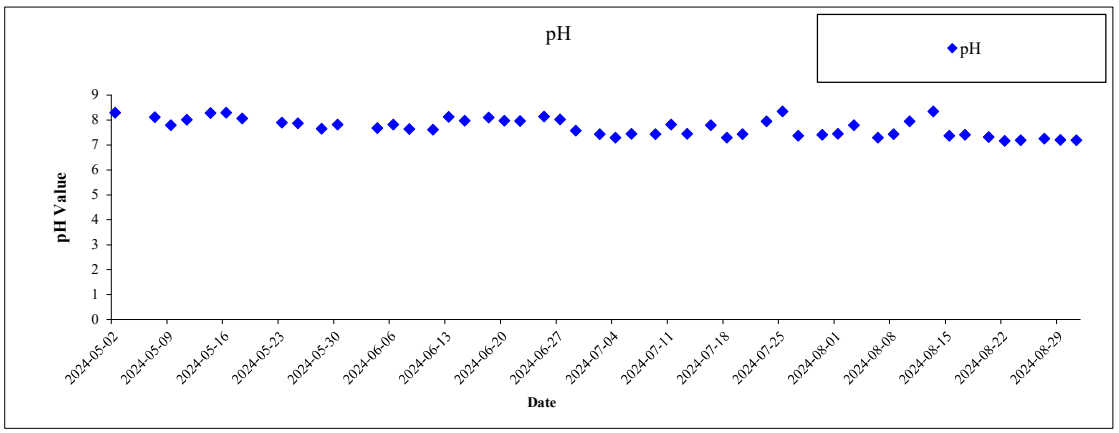


Monitoring Location: C7A

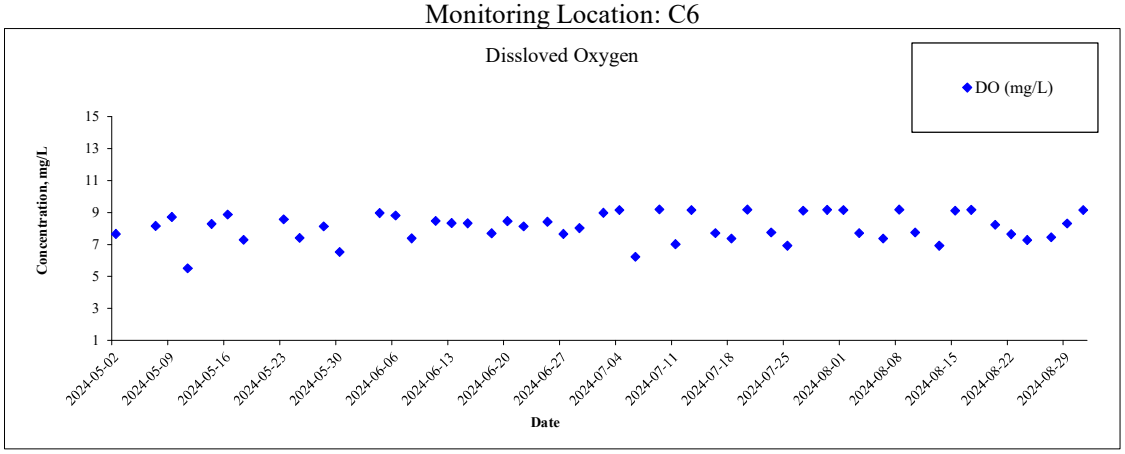


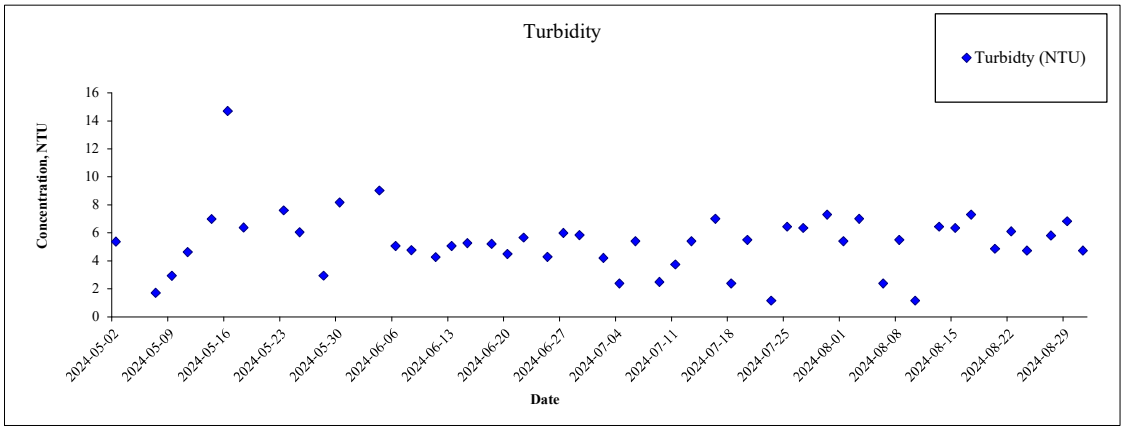


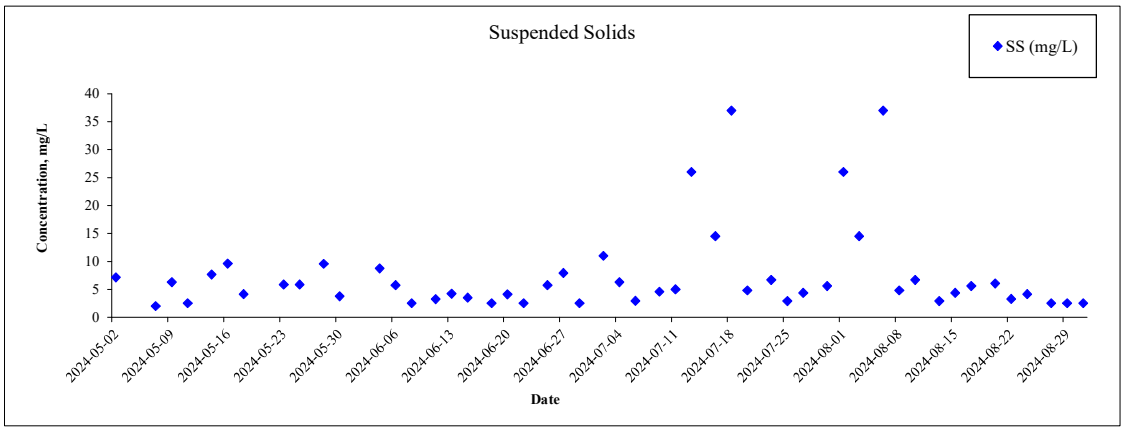


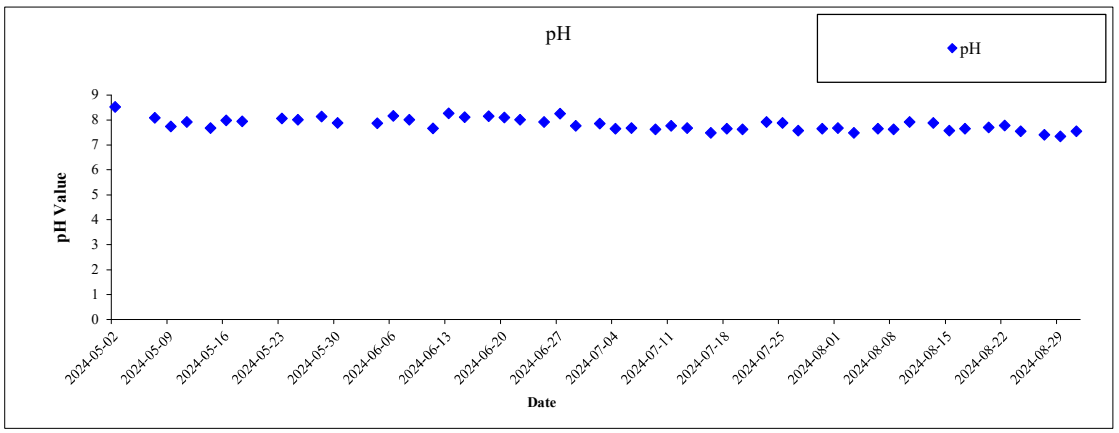


Monitoring Location: C6

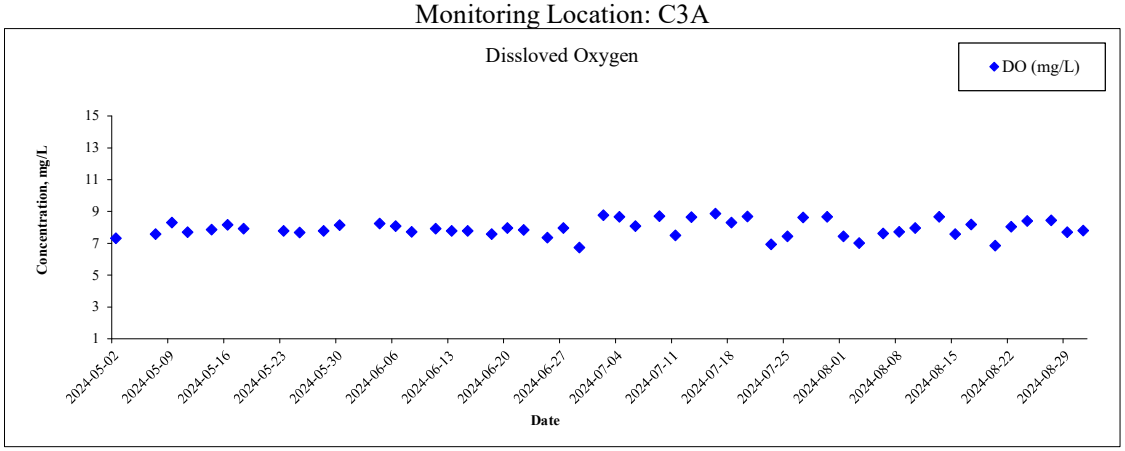


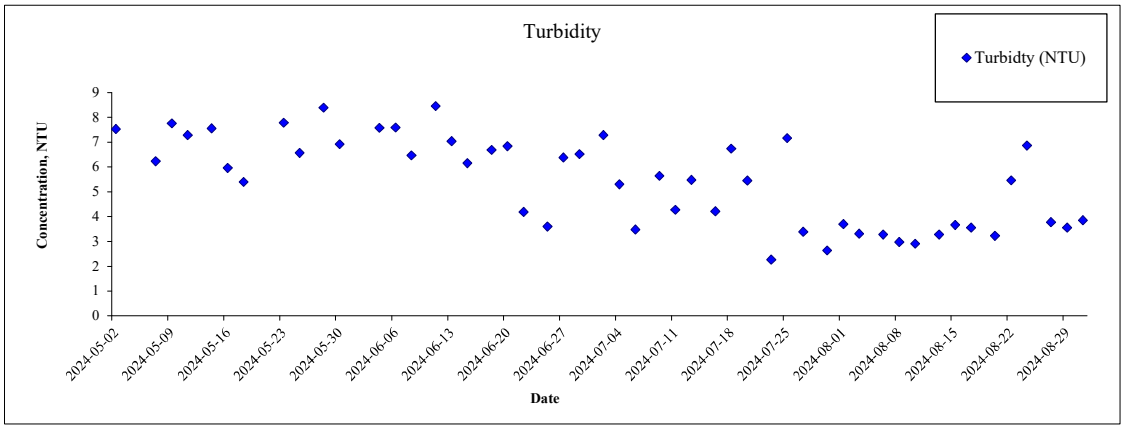


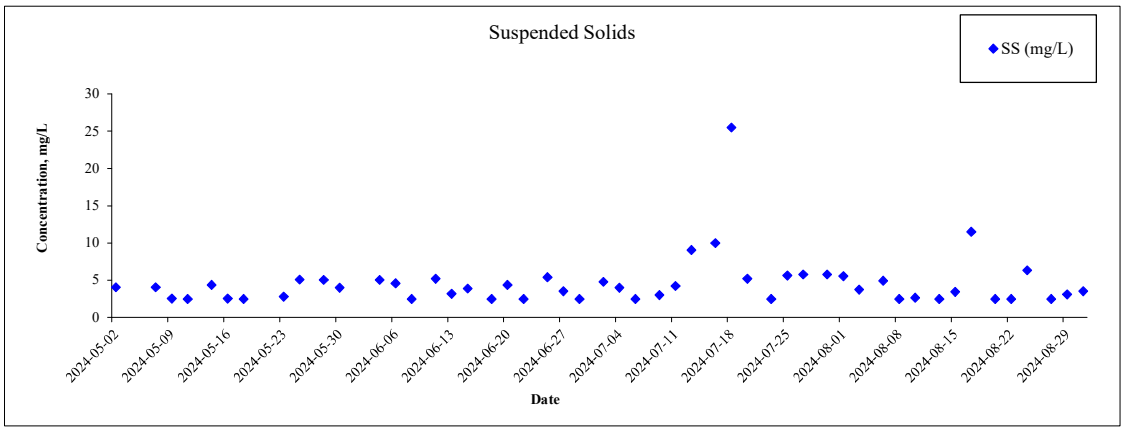


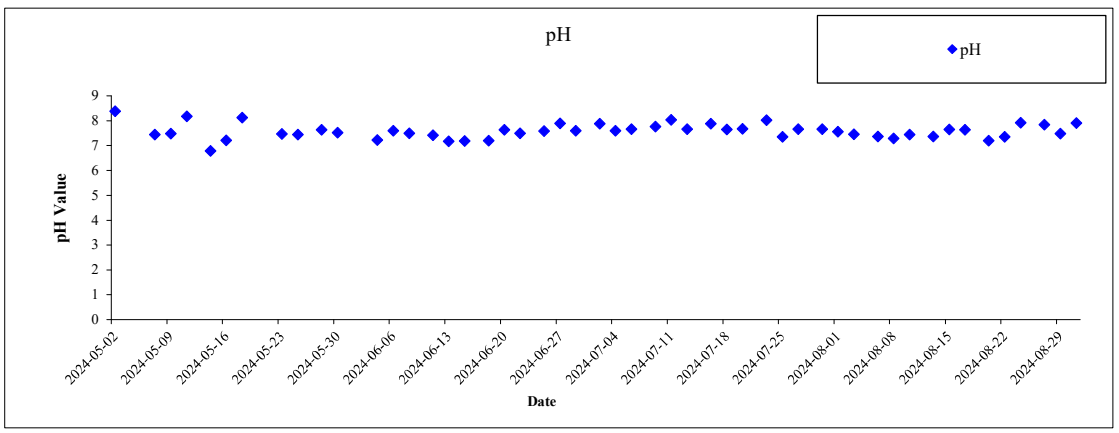


Monitoring Location: C3A

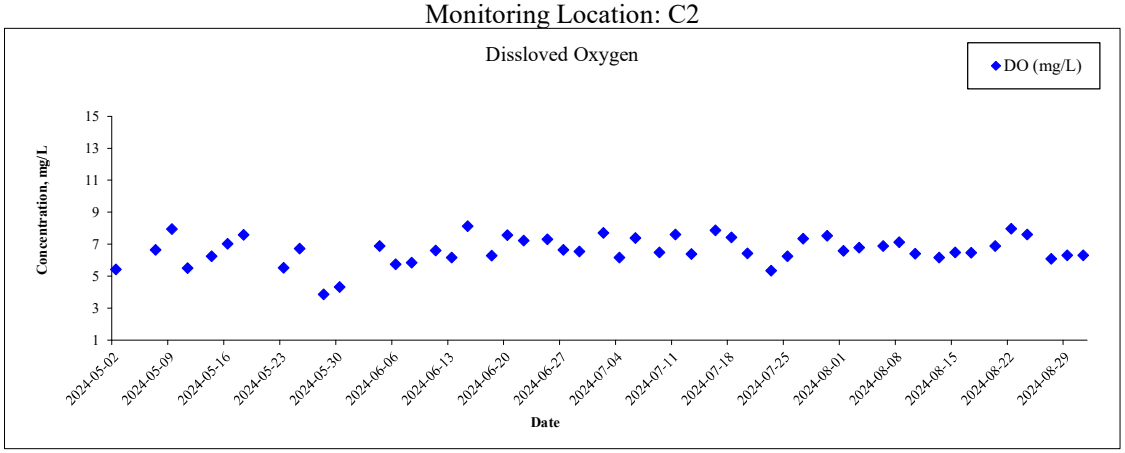


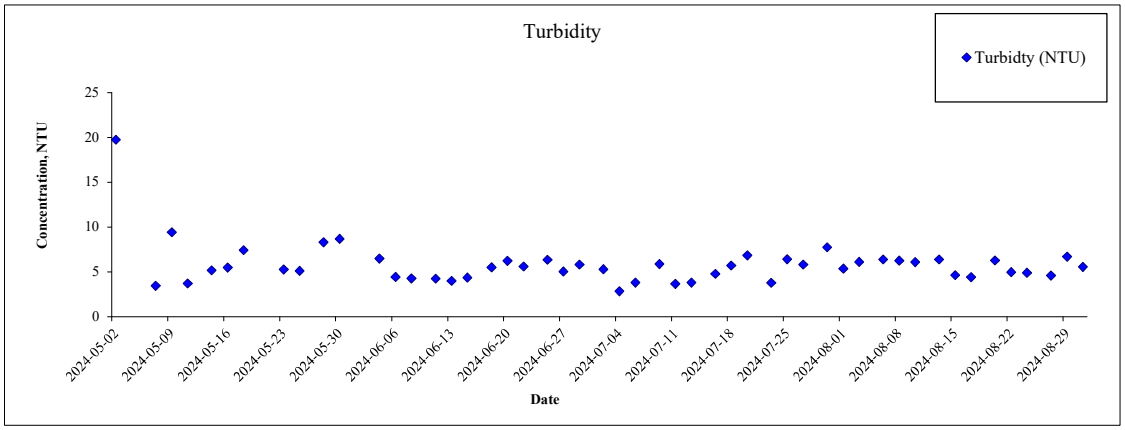


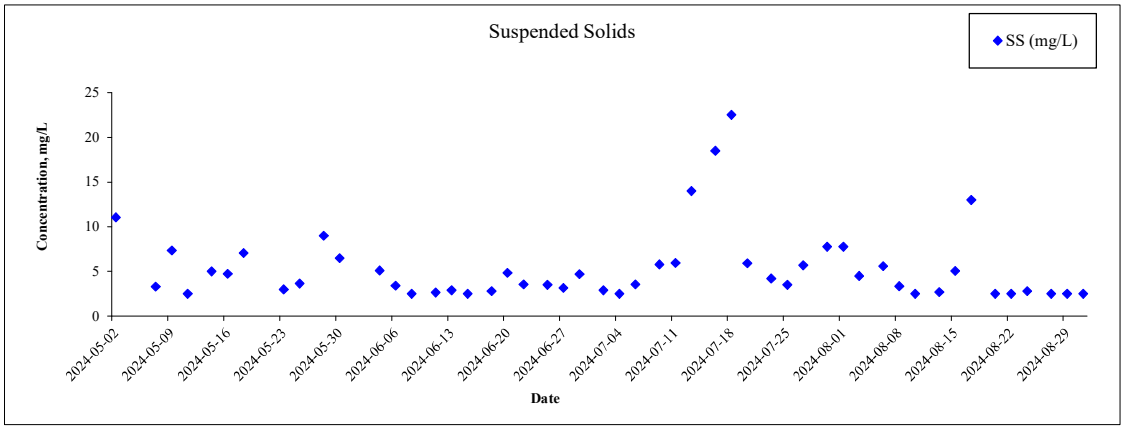


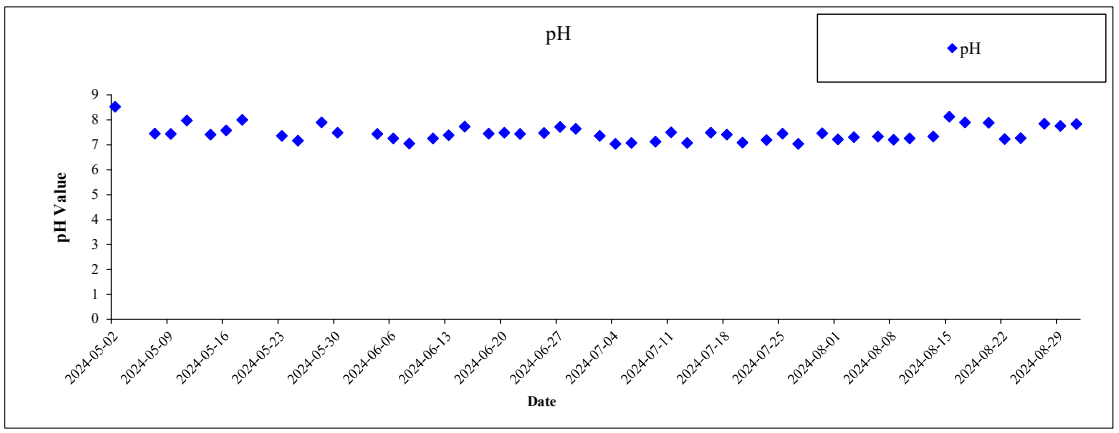


Monitoring Location: C2

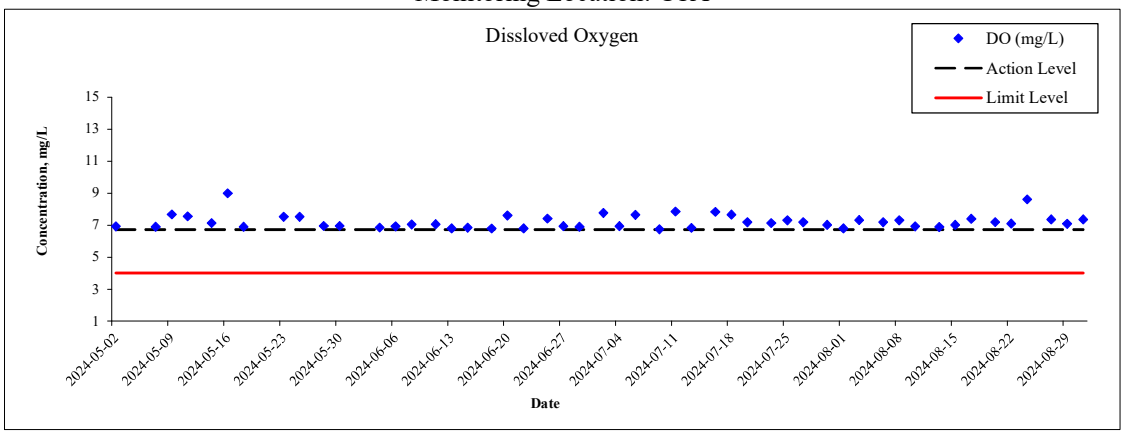


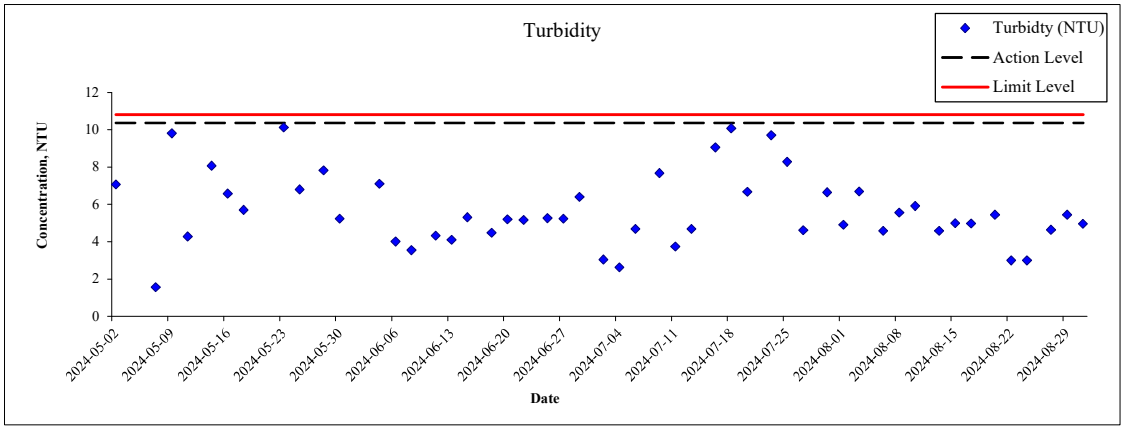


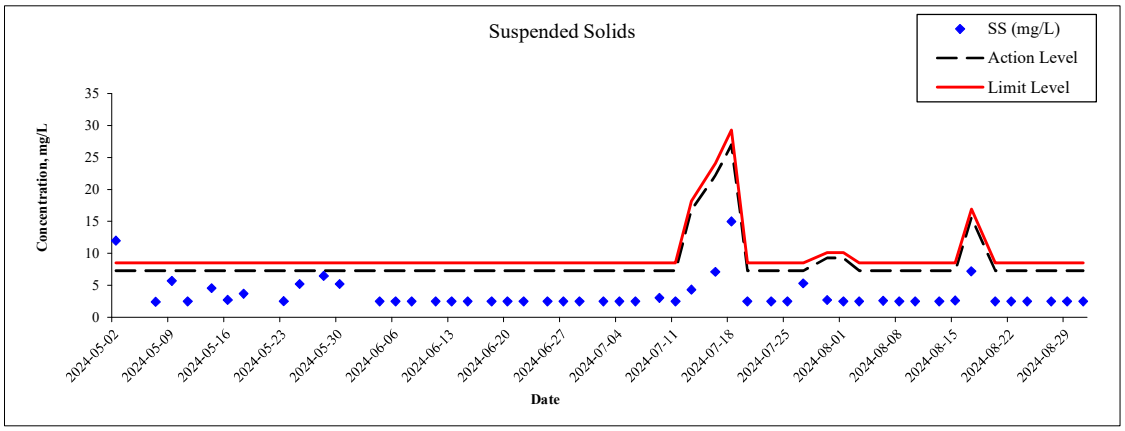


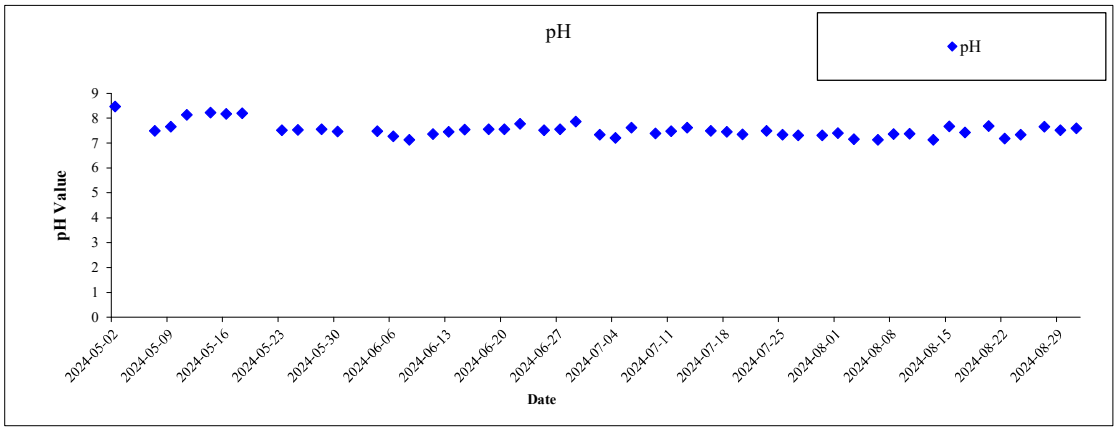


Monitoring Location: C1A









Appendix 3.1 Calibration Certificates of Impact Noise Monitoring Equipment

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***NTi Audio***
Type No.:	***XL2 (Serial No.: A2A-13661-E0)***
Microphone:	***ACO 7052 (Serial No.:73780)***
Preamplifier:	***NTi Audio MA220 (M2211) (Serial No.:6282)***

Submitted by:

Customer:	*Acuity Sustainability Consulting Limited*
Address:	*Unit E, 12/F, Ford Glory Plaza,*
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

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: 31 August 2023

Date of calibration: 04 September 2023

Date of NEXT calibration: 03 September 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **04 September 2023**

Certificate No.: APJ23-053-CC001

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

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:	23.6 °C
Air Pressure:	1005 hPa
Relative Humidity:	62.6 %

3. *Calibration Equipment:*

	Type	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

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.1	±0.7

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.1	Ref
			104		104.1	±0.7
			114		114.1	±0.7

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	1000	94.1	Ref
		Slow			94.1	±0.8

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dB SPL	Fast	94	31.5	94.1	±3.5
				63	94.1	±2.5
				125	94.1	±2.0
				250	94.0	±1.9
				500	94.1	±1.9
				1000	94.1	Ref
				2000	94.4	±2.6
				4000	95.3	±3.6
				8000	94.5	±5.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	31.5	54.7	-39.4 ±3.5
				63	67.9	-26.2 ±2.5
				125	78.0	-16.1 ±2.0
				250	85.4	-8.6 ±1.9
				500	90.9	-3.2 ±1.9
				1000	94.1	Ref
				2000	95.6	+1.2 ±2.6
				4000	96.3	+1.0 ±3.6
				8000	93.4	−1.1 ±5.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 2 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC SPL	Fast	94	31.5	91.0	-3.0 ±3.5
				63	93.2	-0.8 ±2.5
				125	93.9	-0.2 ±2.0
				250	94.0	-0.0 ±1.9
				500	94.1	-0.0 ±1.9
				1000	94.1	Ref
				2000	94.2	-0.2 ±2.6
				4000	94.5	-0.8 ±3.6
				8000	91.5	−3.0 ±5.6

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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 2.

Uncertainties of Applied Value:

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

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Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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:	*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:

☑ **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: _____ ***Certified by:*** _____
Calibration Technician ***Mr. Ng Yan Wa***
Laboratory Manager

Date of issue: **02 March 2024**

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

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:*

	Type	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

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	1000	94.1	±0.4

Linearity

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

Time Weighting

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

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dB SPL	Fast	94	31.5	94.0	±2.0
				63	94.1	±1.5
				125	94.1	±1.5
				250	94.1	±1.4
				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

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

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBC 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
				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

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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	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 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.

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AC12

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***35124530***

Submitted by:

Customer:	*Acuity Sustainability Consulting Limited*
Address:	*Unit E, 12/F, Ford Glory Plaza,*
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon,
	Hong Kong

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

☑ **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: 10 November 2023

Date of calibration: 17 November 2023

Date of NEXT calibration: 16 November 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 17 November 2023

ACOUSTICS AND AIR TESTING LABORATORY CO LTD (A+A)*L

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 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:	23.4 °C
Air Pressure:	1004 hPa
Relative Humidity:	24.4 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

5. *Calibration Results*

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1

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

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
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Appendix 3.2 Event and Action Plan for Noise Exceedance

Event and Action Plan for Noise

Event	ET	IEC	ER	Contractor
Action Level	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check the effectiveness of mitigation measures.	1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Advise the ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; and 4. Supervise the implementation of remedial measures.	1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.
Limit Level	1. Notify IEC, ER, EPD, and Contractor; 2. Identify source and investigate the cause of exceedance; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess the effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; and 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; and 5. Stop the relevant portion of works as determined by ER, until the exceedance is abated.

Appendix 3.3 Impact Noise Monitoring Data

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result

Noise Level Results at HC_M3a

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)	Leq-30min with free-field correction, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)		
07/08/2024	8:01	-	8:31	Sunny	67.5	67.7	67.8	67.7	67.6	67.6	67.7	70.7
16/08/2024	8:06	-	8:36	Sunny	66.4	66.6	66.5	66.6	66.7	66.6	66.6	69.6
23/08/2024	8:11	-	8:41	Cloudy	65.8	66.1	66	66.1	66.2	66.1	66.1	69.1
28/08/2024	8:02	-	8:32	Sunny	64.9	64.8	65.1	65.2	65.1	65.0	65.0	68.0
											Max	**Min**
											70.7	68.0

Noise Level Results at HC_M4

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	8:42	-	9:12	Sunny	57.8	57.6	57.7	57.8	57.7	57.6	57.7
16/08/2024	8:46	-	9:16	Sunny	58.1	58.0	58.2	58.1	58.1	58.0	58.1
23/08/2024	8:55	-	9:25	Cloudy	57.3	57.1	57.2	57.1	57.1	57.0	57.1
28/08/2024	8:41	-	9:11	Sunny	56.5	56.4	56.6	56.5	56.4	56.4	56.5
										Max	**Min**
										58.1	56.5

Noise Level Results at HC_M6

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	9:23	-	9:53	Sunny	58.1	57.9	58	58.1	58.3	58.2	58.1
16/08/2024	9:28	-	9:58	Sunny	57.8	57.9	57.8	57.7	57.7	57.6	57.8
23/08/2024	9:36	-	10:06	Cloudy	58.6	58.7	58.7	58.8	58.7	58.8	58.7
28/08/2024	9:34	-	10:04	Sunny	58.1	58.2	58.3	58.2	58.2	58.4	58.2
										Max	**Min**
										58.7	57.8

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result

Noise Level Results at LFT_M1

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	9:15	-	9:45	Sunny	59.2	59.9	59.4	60.0	60.9	61.0	60.1
16/08/2024	9:21	-	9:51	Sunny	58.9	60.5	60.8	61.6	62.9	61.6	61.2
23/08/2024	9:03	-	9:33	Cloudy	60.4	62.4	61.1	59.1	61.3	60.0	60.8
28/08/2024	9:19	-	9:49	Sunny	60.9	62.6	59.6	61.3	61.9	63.0	61.7
										Max	**Min**
										61.7	60.1

Noise Level Results at LFT_M3A

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)	Leq-30min with free-field correction, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)		
07/08/2024	11:29	-	11:59	Sunny	53.2	53.4	53.3	53.3	53.4	53.5	53.4	56.4
16/08/2024	11:19	-	11:49	Sunny	53.7	53.6	53.5	53.6	53.6	53.5	53.6	56.6
23/08/2024	11:06	-	11:36	Cloudy	54.1	54.0	54.2	54.1	54.1	54.2	54.1	57.1
28/08/2024	11:16	-	11:46	Sunny	53.7	53.8	53.9	53.8	53.8	53.7	53.8	56.8
											Max	**Min**
											57.1	56.4

Noise Level Results at LFT_M5

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	10:49	-	11:19	Sunny	54.0	53.8	53.7	53.7	53.6	53.6	53.7
16/08/2024	10:42	-	11:12	Sunny	53.5	53.6	53.6	53.5	53.4	53.4	53.5
23/08/2024	10:30	-	11:00	Cloudy	53.7	53.8	53.7	53.6	53.5	53.5	53.6
28/08/2024	10:39	-	11:09	Sunny	53.2	53.1	53.3	53.2	53.3	53.6	53.3
										Max	**Min**
										53.7	53.3

Noise Level Results at LFT_M6

Date	Time			Weather	Leq-5min, dB(A)						30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	10:12	-	10:42	Sunny	57.9	59.6	56.3	56.2	57.3	59.1	57.9
16/08/2024	10:06	-	10:36	Sunny	56.5	59.1	58.4	57.2	58.8	58.6	58.2
23/08/2024	9:53	-	10:23	Cloudy	57.9	58.4	60.2	57.6	58.3	58.8	58.6
28/08/2024	10:02	-	10:32	Sunny	56.1	56.5	57	56.0	58.1	56.4	56.7
										Max	**Min**
										58.6	56.7

Noise Level Results at LFT_M11

Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	8:16	-	8:46	Sunny	68.0	67.9	68.1	68.2	68.1	68.0	68.1
16/08/2024	8:22	-	8:52	Sunny	67.6	67.9	68	67.9	67.8	67.8	67.8
23/08/2024	8:06	-	8:36	Cloudy	66.9	67.3	67.4	67.4	67.5	67.5	67.3
28/08/2024	8:35	-	9:05	Sunny	67.6	67.5	67.6	67.7	67.6	67.5	67.6
										Max	**Min**
										68.1	67.3

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result

Noise Level Results at SSNV_M2

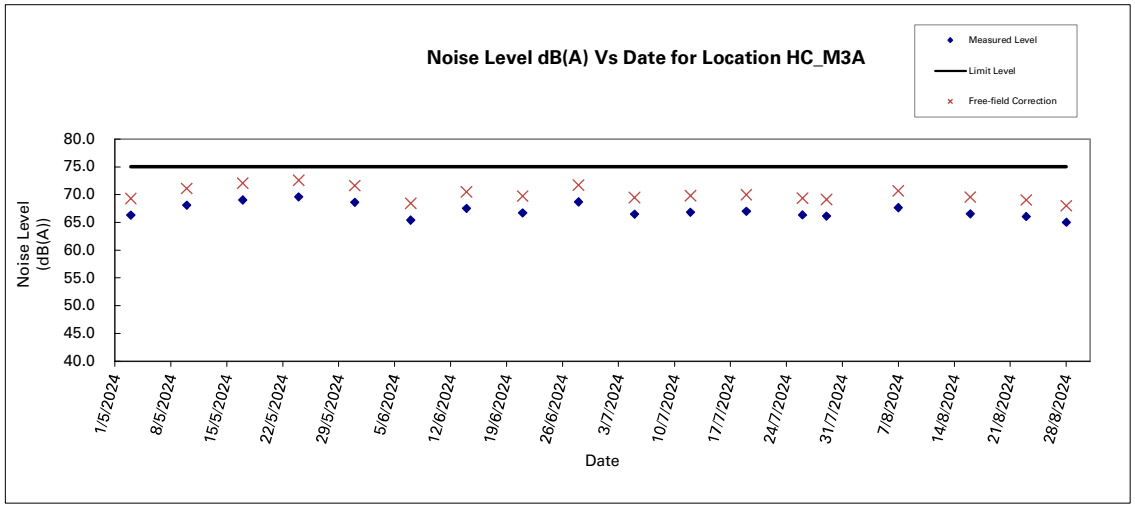
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	11:36	-	12:06	Sunny	58.8	61.0	61.0	59.2	60.1	61.6	60.4
16/08/2024	11:42	-	12:12	Sunny	61.1	62.8	58.3	60.1	60.8	60.3	60.8
23/08/2024	11:59	-	12:29	Cloudy	59.1	60.1	59.3	59.7	60.2	63.0	60.5
28/08/2024	11:45	-	12:15	Sunny	59.9	62.3	60.7	59.9	62.2	60.3	61.0
										Max	**Min**
										61.0	60.4

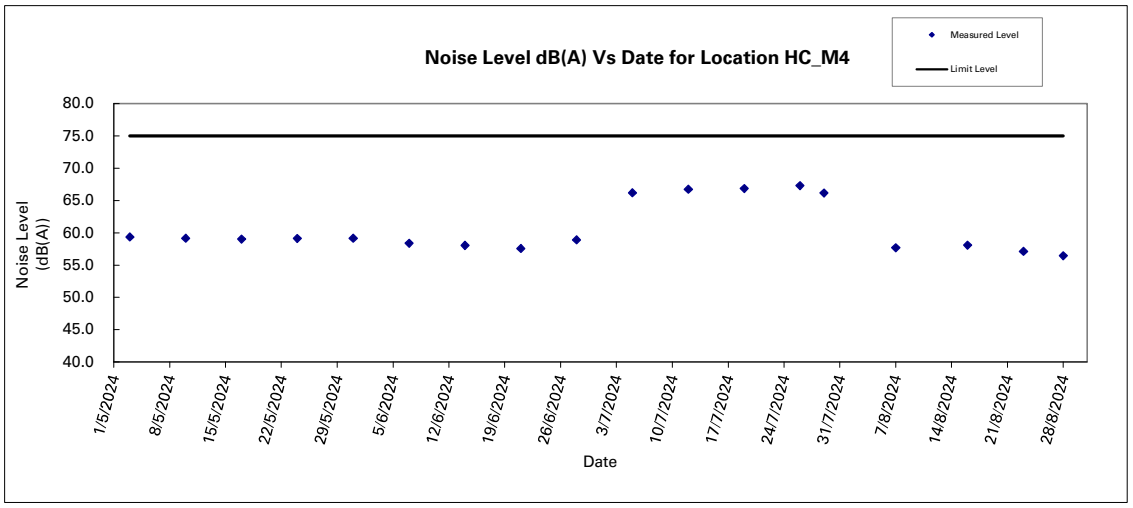
Noise Level Results at SSNV_M3

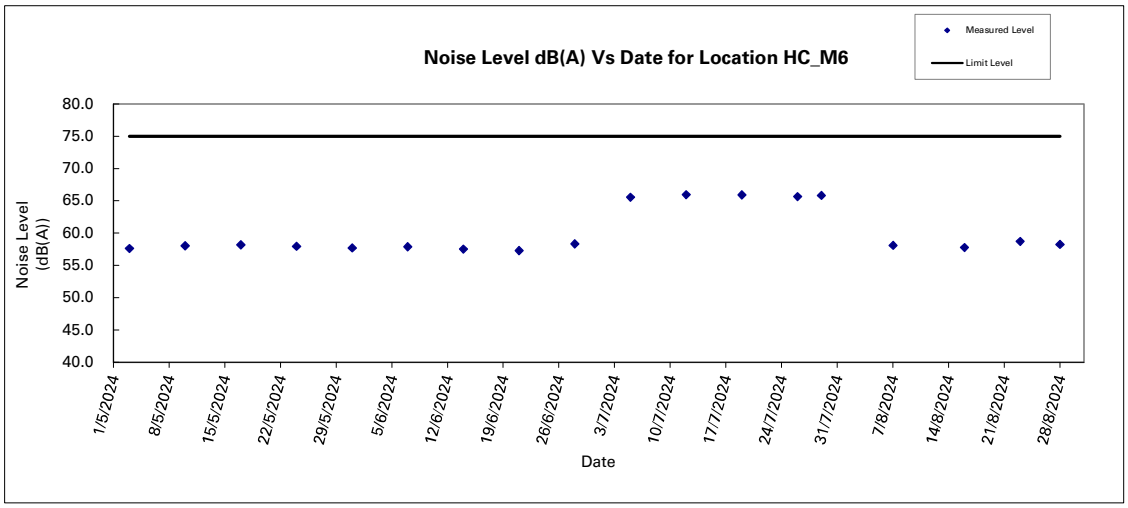
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
07/08/2024	10:59	-	11:29	Sunny	59.5	59.4	59.7	63.4	61.0	60.8	60.9
16/08/2024	11:03	-	11:33	Sunny	60.2	63.7	63.2	60.9	61.6	61.3	62.0
23/08/2024	11:16	-	11:46	Cloudy	59.0	60.2	62.8	60.2	60.4	61.3	60.8
28/08/2024	11:09	-	11:39	Sunny	61.6	60.4	61.9	61.6	61.8	60.3	61.3
										Max	**Min**
										62.0	60.8

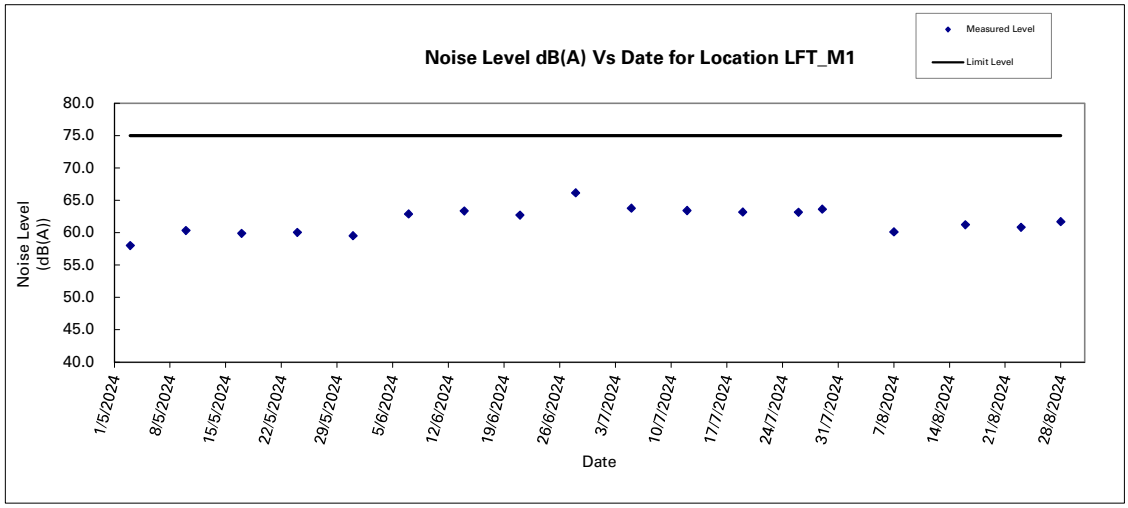
Noise Level Results at SSNV_M6

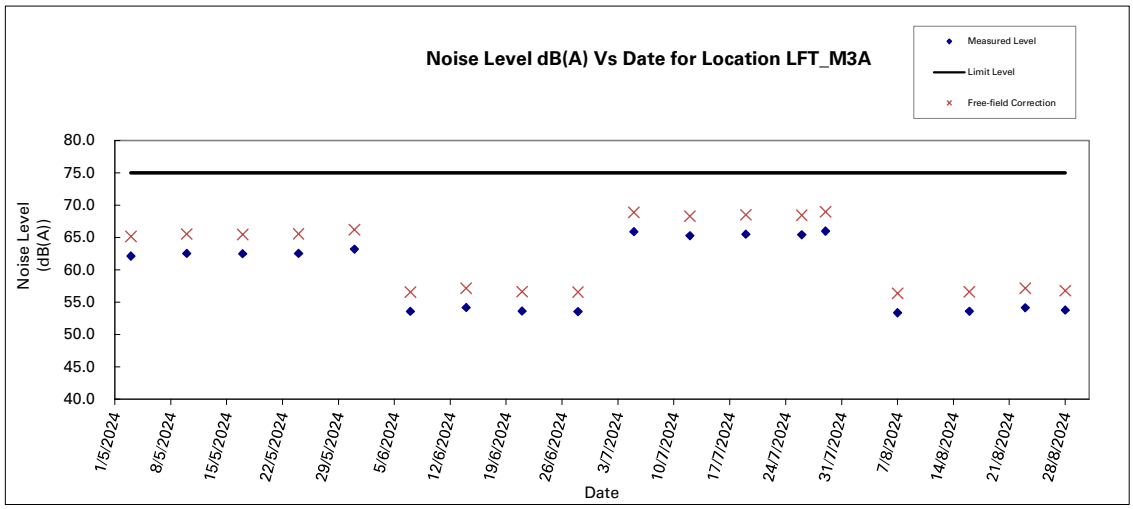
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)	Leq-30min with free-field correction, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)		
07/08/2024	10:21	-	10:51	Sunny	62.1	62.9	62.6	61.6	63.0	62.5	62.5	65.5
16/08/2024	10:23	-	10:53	Sunny	63.5	63.7	64.4	61.2	62.5	62.0	63.0	66.0
23/08/2024	10:36	-	11:06	Cloudy	60.1	61.4	61.4	60.6	62.7	63.2	61.7	64.7
28/08/2024	10:29	-	10:59	Sunny	63.9	64.8	63.0	63.2	64.3	60.3	63.5	66.5
											Max	**Min**
											66.5	64.7

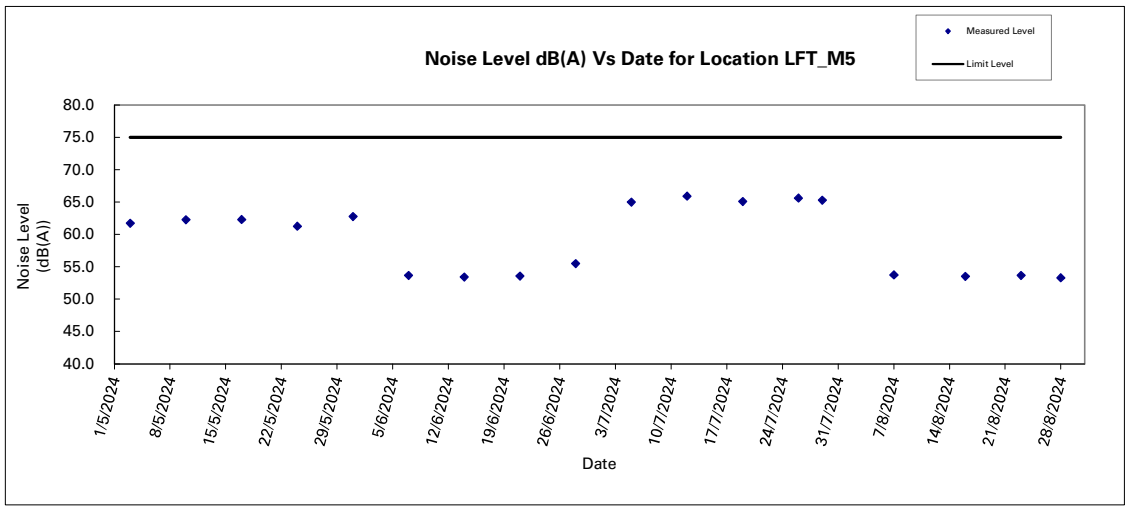

Noise Level dB(A) Vs Date for Location HC_M3A
Measured Level
Limit Level
Free-field Correction
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

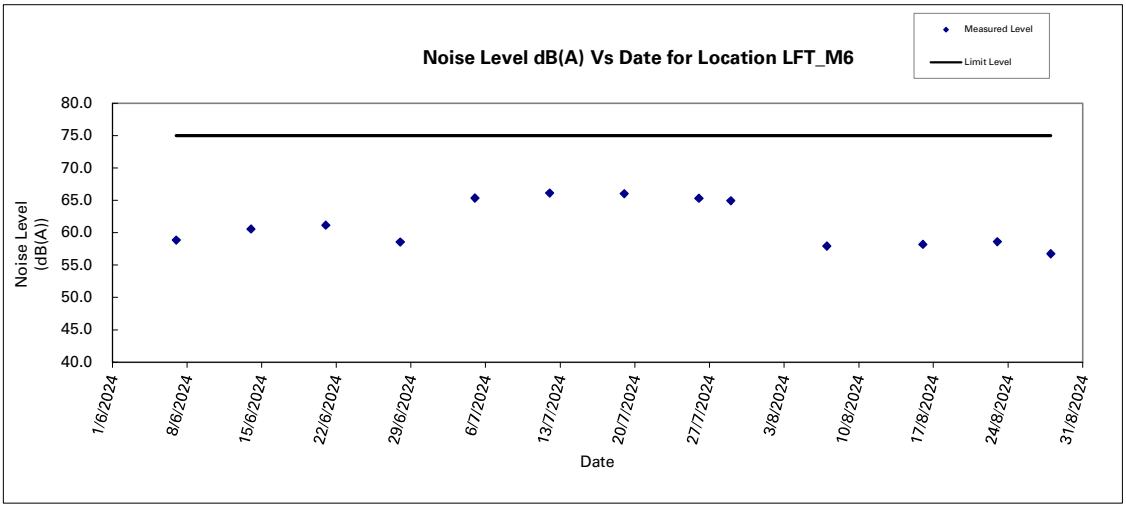

Noise Level dB(A) Vs Date for Location HC_M4
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

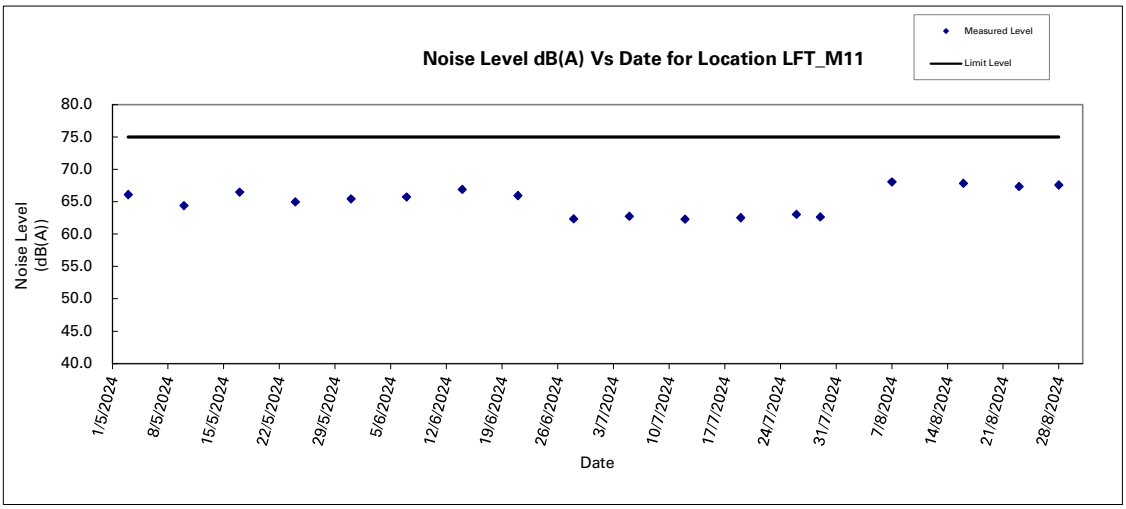

Noise Level dB(A) Vs Date for Location HC_M6
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

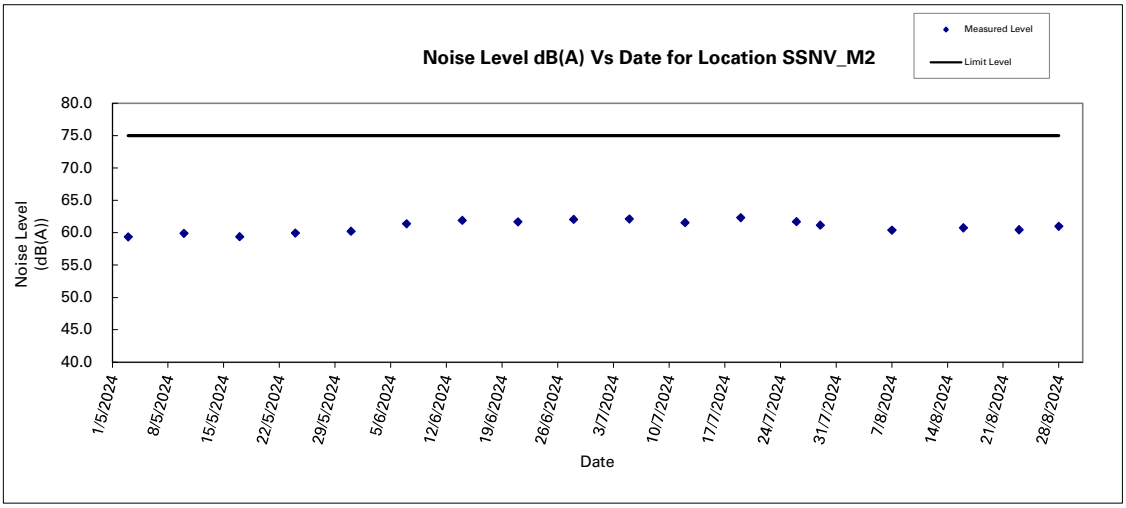

Noise Level dB(A) Vs Date for Location LFT_M1
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

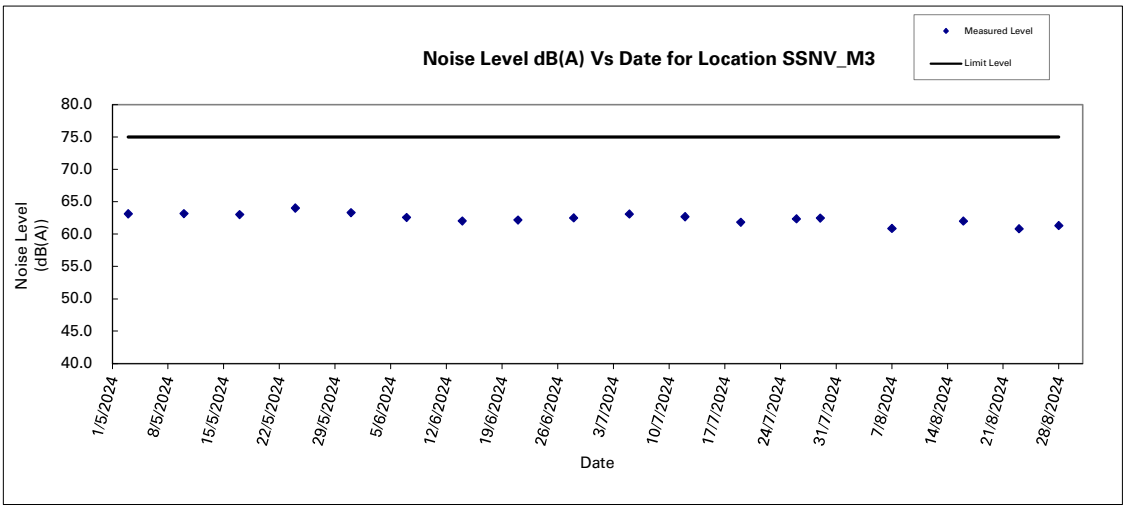

Noise Level dB(A) Vs Date for Location LFT_M3A
Measured Level
Limit Level
Free-field Correction
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

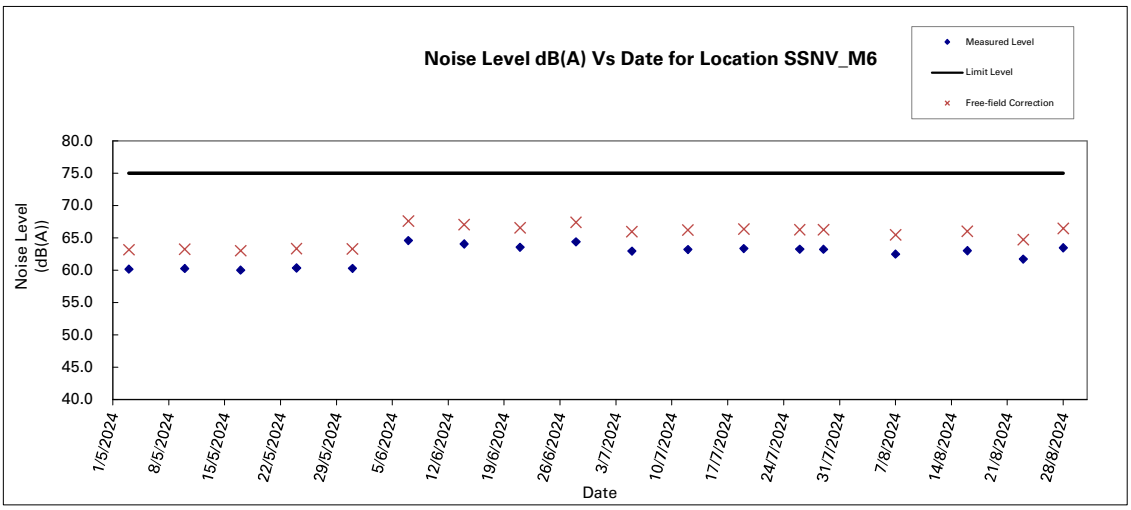

Noise Level dB(A) Vs Date for Location LFT_M5
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date


Noise Level dB(A) Vs Date for Location LFT_M6
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/6/2024
8/6/2024
15/6/2024
22/6/2024
29/6/2024
6/7/2024
13/7/2024
20/7/2024
27/7/2024
3/8/2024
10/8/2024
17/8/2024
24/8/2024
31/8/2024
Date


Noise Level dB(A) Vs Date for Location LFT_M11
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date


Noise Level dB(A) Vs Date for Location SSNV_M2
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date


Noise Level dB(A) Vs Date for Location SSNV_M3
Measured Level
Limit Level
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date


Noise Level dB(A) Vs Date for Location SSNV_M6
Measured Level
Limit Level
Free-field Correction
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
1/5/2024
8/5/2024
15/5/2024
22/5/2024
29/5/2024
5/6/2024
12/6/2024
19/6/2024
26/6/2024
3/7/2024
10/7/2024
17/7/2024
24/7/2024
31/7/2024
7/8/2024
14/8/2024
21/8/2024
28/8/2024
Date

Appendix 5.1 Waste Flow Table

Appendix 2

Name of Department : Drainage Services Department

Contract No. : DC/2022/02

Monthly Summary Waste Flow Table for 2024

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Materials Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastic	Chemical Waste	Others, e.g. General Refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	0.037	0.029	0.000	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0.020
Feb	0.053	0.046	0.000	0.000	0.053	0.000	0.000	0.000	0.000	0.000	0.030
Mar	0.437	0.098	0.000	0.000	0.437	0.000	0.000	0.000	0.000	0.000	0.055
Apr	1.040	0.305	0.000	0.000	1.040	0.000	0.000	0.000	0.000	0.000	0.000
May	0.498	0.038	0.000	0.000	0.498	0.000	0.000	0.000	0.000	0.000	0.002
Jun	0.232	0.012	0.000	0.000	0.232	0.000	0.000	0.000	0.000	0.000	0.026
Sub-total	**2.298**	**0.528**	**0.000**	**0.000**	**2.298**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.133**
Jul	1.031	0.115	0.000	0.000	1.031	0.000	0.001	0.005	0.001	0.001	0.024
Aug	1.983	0.149	0.000	0.000	1.983	0.000	0.001	0.005	0.001	0.000	0.023
Sep											
Oct											
Nov											
Dec											
Total	**5.311**	**0.792**	**0.000**	**0.000**	**5.311**	**0.000**	**0.002**	**0.010**	**0.002**	**0.001**	**0.180**

Appendix 10.1 Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 August 2024 - 31 August 2024	0	1	N/A

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 August 2024 - 31 August 2024	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 August 2024 - 31 August 2024	0	0	N/A

Appendix 11.1 Impact Monitoring Schedule of Next Reporting Month

Impact Noise & Water Monitoring Schedule for Contract No. DC/2022/02 Drainage Improvement Works at Yuen Long Stage 2 (Version 0)

September 2024

Sun	Mon	Tue	Wed	Thur	Fri	Sat
1	**2** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**3**	**4** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**5**	**6** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**7**
8	**9** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**10**	**11** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**12**	**13** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**14**
15	**16** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**17**	**18** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**19** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**20** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**21**
22	**23** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**24** Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11	**25** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**26**	**27** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	**28**
29	**30** Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10					

Noise Monitoring Locations:
Noise monitoring stations at Ha Che: HC_M3A, HC_M4, and HC_M6
Noise monitoring stations at Tai Wo: TW_M2 and TW_M3
Noise monitoring stations at Lin Fa Tei: LFT_M1, LFT_M3A, LFT_M5, LFT_M6, and LFT_M11
Noise monitoring stations at Sung Shan New Village: SSNV_M2, SSNV_M3, and SSNV_M6

Water Monitoring Locations:
Water quality monitoring stations at Ha Che: C9 and C10
Water quality monitoring stations at Tai Wo: C4 and C5
Water quality monitoring stations at Lin Fa Tei: C6, C7A, and C8
Water quality monitoring stations at Sung Shan New Village: C1A, C2, and C3A

Remarks:
1. The schedule may be changed due to unforeseen circumstances (e.g. adverse weather, etc.)
2. As stipulated in EP No.: EP-596/2021 condition 3.2 and confirmed by the Contractor , no construction work is scheduled at Tai Wo between April 2024 and September 2024. Thus, impact noise monitoring and impact water quality monitoring, will be suspended between April 2024 and September 2024

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