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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 (April 2024)

17 May 2024

Dear Sir,

We refer to the Monthly EM&A Report under the captioned Project, which was certified on 16 May 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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Independent Environmental Checker
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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

2024-05-16

aurecon

Bringing ideas to life

Document control record

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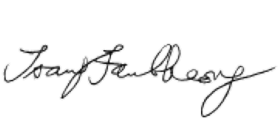
Author signature		Certified by	
Name	Joe Ho	Name	F. C. Tsang
Title	Environmental Team Consultant	Title	Environmental Team Leader

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Executive Summary

A1. This is the 3rd 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 April to 30 April 2024.

Key Construction Works in the Reporting Period

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

Ha Che

- Site Clearance Work
- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

Lin Fa Tei

- Site Clearance Work
- Lifting Operation;
- Plant Operation; and
- Excavation

Sung Shan New Village

- No Construction Work

Monitoring and Audit Programme

A3. The monthly EM&A programme was undertaken by the ET in accordance with the approved 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 and Lin Fa Tei: 3, 5, 8, 10, 12, 15, 17, 19, 23, 25, 27 and 29 April 2024 Sung Shan New Village: 17, 19, 23, 25, 27 and 29 April 2024
Noise Monitoring	Ha Che and Lin Fa Tei: 5, 12, 19 and 26 April 2024 Sung Shan New Village: 19 and 26 April 2024
Weekly Environmental Site Inspection	3, 10, 17 and 24 April 2024

Breaches of Action and Limit Levels

A4. Summary of the environmental exceedances of 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(1)		Total No. of non-project related exceedances(1)	No. of exceedances related to the the project(1)		Total No. of exceedance related to the project(1)
		AL	LL		AL	LL	
Water Quality	DO	0	0	0	0	0	0
	Turbidity	0	0	0	0	0	0
	SS	2	1	3	0	0	0
Noise	$L_{eq(30mins)}$	0	0	0	0	0	0

Note:
(1) Only exceedances recorded on 10, 17 and 19 April 2024 is counted. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

Water Quality

A5. All water quality monitoring was conducted as scheduled in the reporting period. Two (2) action level exceedances for SS and seven (7) limit level exceedances for SS during impact water quality monitoring were recorded. After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

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. Construction work at Sung Shan New Village was commenced on 16 April 2024 and the construction phase EM&A programme at Sung Shan New Village started on 16 April 2024.

A11. 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 noise monitoring at LFT_M7 will be resumed when the access to the monitoring location is granted.

Future Key Issues

A12. The major site activities for the next reporting period are summarized below:

Ha Che

- Lifting Operation;
- Plant Operation;
- Excavation;
- Sheet Piling; and
- Installation of Precast unit

Lin Fa Tei

- Site Clearance Work
- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

Sung Shan New Village

- No Construction Work

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 3rd Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 1 April to 30 April 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 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**.

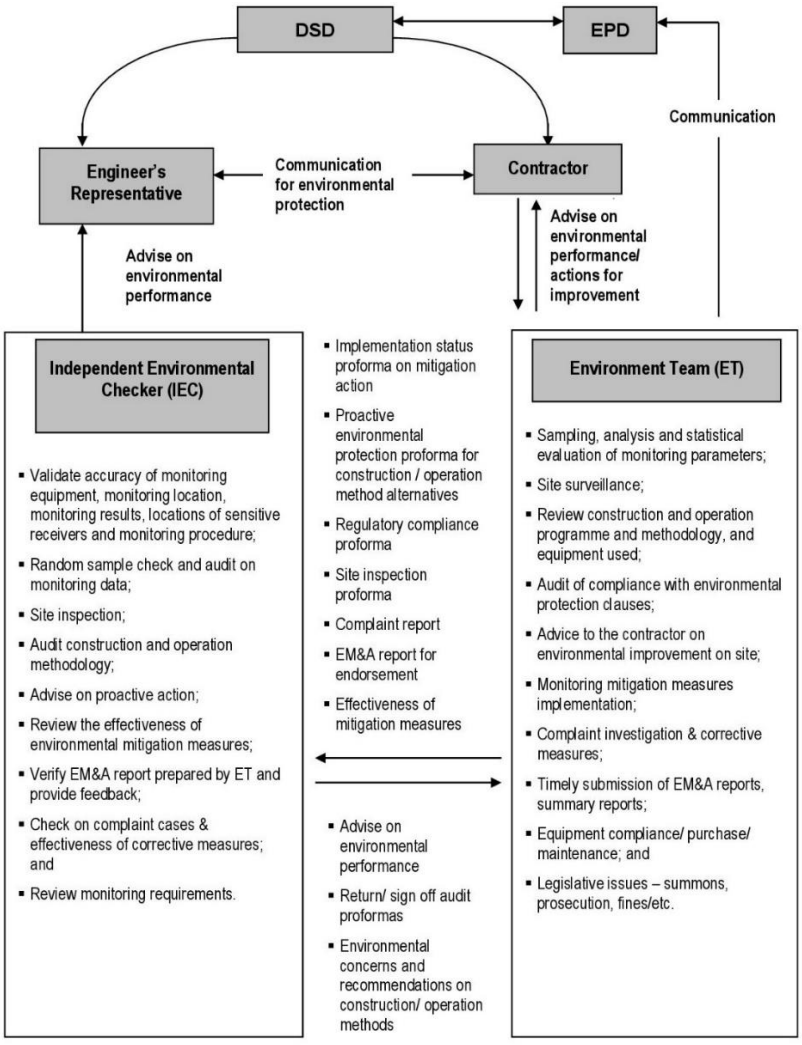


Diagram 1.1 Organisation Chart

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

- Site Clearance Work
- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

Lin Fa Tei

- Site Clearance Work
- Lifting Operation;
- Plant Operation; and
- Excavation

Sung Shan New Village

- No Construction Work

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			
Ha Che WT10002496-2023	26/04/2024	30/04/2029	Valid
Lin Fa Tei NA	NA	NA	Under Application
Tai Wo NA	NA	NA	Under Application
Sung Shan New Village NA	NA	NA	Under Application

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 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 EM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under Approved 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.
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.
Ecology	
Freshwater Crab Translocation Plan (FCTP)	The EPD had no further comment on the submitted FCTP on 9 February 2024. 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 HCMP is pending for further revision.
Mitigation Measures listed in Approved EM&A Manual	On-going

Parameters	Status
Waste Management	
Mitigation Measures listed in Approved EM&A Manual	On-going
Land Contamination	
Mitigation Measures listed in Approved 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.
Weekly Site Audit	On-going
Mitigation Measures listed in Approved 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 EM&A Manual	On-going
Environmental Audit	
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 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, turbidity, pH, 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 6 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	825497	830664	Control Monitoring Point
	C5	825486	830716	Impact Monitoring Point
LFT	C6	827232	831713	Control Monitoring Point
	C7A (3)	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) 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 6.3 of the approved 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.

Dissolved Oxygen and Temperature Measuring Equipment

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)	2	15M101091 and 22C106561	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
Water Depth Ruler	鼎峯 0708	1	NA*	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	> 99%-ile of baseline data or 130% of upstream control station of the same day
Turbidity in NTU	> 95%-ile of baseline data or >120% of upstream control station of the same day	> 99%-ile of baseline data or > 130% of upstream control station of the same day

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 limit.
(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	8.5 or > 130% of upstream control station of the same day
		Turbidity in NTU	10.37 or >120% of upstream control station of the same day	10.81 or > 130% of upstream control station of the same day
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	10.0 or > 130% of upstream control station of the same day
		Turbidity in NTU	13.64 or > 120% of upstream control station of the same day	13.87 or > 130% of upstream control station of the same day
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	7.0 or > 130% of upstream control station of the same day
		Turbidity in NTU	12.46 or > 120% of upstream control station of the same day	12.94 or > 130% of upstream control station of the same day
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	8.8 or > 130% of upstream control station of the same day
		Turbidity in NTU	20.06 or > 120% of upstream control station of the same day	21.07 or > 130% of upstream control station of the same day

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 All 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 Two (2) action level exceedances for SS and seven (7) limit level exceedances for SS during impact water quality monitoring were recorded. After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

Table 2.7 Summary of Exceedance Records of Water Quality Monitoring

Date	Station	Parameter (Unit)	Averaged Measured Value	Exceedance		Exceedances due to the Project
				Action Level (AL)	Limit Level (LL)	
10/04	C6	SS (mg/L)	4.1			N/A (Control Monitoring Point)
	C7A		6.0			N/A (Control Monitoring Point)
	C8		6.6	✓		NO
17/04	C9	SS (mg/L)	15.0			N/A (Control Monitoring Point)
	C10		19.0	✓		NO
19/04	C1A	SS (mg/L)	32.5		✓	NO
	C2		15.0			N/A (Control Monitoring Point)
	C3A		13.5			N/A (Control Monitoring Point)
23/04	C9	SS (mg/L)	15.0			N/A (Control Monitoring Point)
	C10		19.0	✓		-(1)
25/04	C6	SS (mg/L)	8.20			N/A (Control Monitoring Point)
	C7A		35.5			N/A (Control Monitoring Point)
	C8		36.5		✓	-(1)
	C9		3.7			N/A (Control Monitoring Point)
	C10		17.5		✓	-(1)
27/04	C6	SS (mg/L)	9.3			N/A (Control Monitoring Point)
	C7A		5.2			N/A (Control Monitoring Point)
	C8		9.5		✓	-(1)
29/04	C1A	SS (mg/L)	13.0		✓	-(1)
	C2		22.5			N/A (Control Monitoring Point)

Date	Station	Parameter (Unit)	Averaged Measured Value	Exceedance		Exceedances due to the Project
				Action Level (AL)	Limit Level (LL)	
	C3A		3.2			N/A (Control Monitoring Point)
	C6		1.3			N/A (Control Monitoring Point)
	C7A		9.2			N/A (Control Monitoring Point)
	C8		22.0		✓	-(1)

Note:
(1) After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

Table 2.8 Summary of Exceedance Records of Water Quality Monitoring

Parameter	No. of non-project related exceedances(1)		Total No. of non-project related exceedances(1)	No. of exceedance related to the Project(1)		Total No. of exceedance related to the Project(1)
	AL	LL		AL	LL	
Dissolved Oxygen	0	0	0	0	0	0
Turbidity	0	0	0	0	0	0
Suspended Solids	2	1	3	0	0	0

Note:
(1) Only exceedances recorded on 10, 17 and 19 April 2024 is counted. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

2.10.3 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. After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented in the next monthly EM&A report.

2.10.4 Exceedance of action level on SS was recorded during the regular monitoring at C8 on 10 April 2024. A geotextile was properly deployed onsite as the mitigation measure for preventing site runoff. No accidental site runoff was reported on 10 April 2024 at Lin Fa Tei. Sedimentation Tank and Sump Pump were deployed for directing the river water from the upstream of work area to the downstream of work area at Lin Fa Tei. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection at Lin Fa Tei on 10 April 2024. It is considered that the exceedance of action level of SS is not related to the Project.

2.10.5 Exceedance of action level on SS was recorded during the regular monitoring at C10 on 17 April 2024. A geotextile was properly deployed onsite and a water bypass was deployed to direct river water from the upstream of work area to the downstream of work area at Ha Che. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection at Ha Che on 17 April 2024. It is considered that the exceedance of action level of SS is not related to the Project.

2.10.6 Exceedance of limit level on SS was recorded during the regular monitoring at C1A on 19 April 2024. Since no construction work was carried out at Sung Shan New Village on 19 April 2024 and the work area remained in natural condition. It is considered that the exceedance of limit level of SS is not related to the Project.

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_M7	Village house near the nullah (DD112 699 S.E)	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.

3.2 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 L10 and L90 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
HC_M3A, HC_M4, HC_M6, TW_M2, TW_M3, LFT_M1, LFT_M3A, LFT_M5, LFT_M7 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	Svantek SVAN 971	2	96062 C132269
Acoustic Calibrator	Rion NC-75	1	34724244

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 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 5, 12, 19 and 26 April 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	60.3	60.7	75 dB(A)
SSNV_M3	63.6	64.0	75 dB(A)
SSNV_M6(1)	62.7	63.5	75 dB(A)
HC_M3A(1)	67.6	70.3	75 dB(A)
HC_M4	68.2	68.7	75 dB(A)
HC_M6	63.3	64.3	75 dB(A)
LFT_M1	58.0	60.0	75 dB(A)
LFT_M3A(1)	66.2	67.7	75 dB(A)
LFT_M5	64.0	66.0	75 dB(A)
LFT_M7(2)	-	-	75 dB(A)
LFT_M11	59.7	61.0	75 dB(A)

Note:
(1) For Free Field measurement, +3 dB(A) was added to the measured results.
(2) Noise monitoring at LFT_M7 has been suspended since 27 March 2024 due to the objection from property management office for providing access to designated monitoring location. The noise monitoring at LFT_M7 will be resumed when the access to the monitoring location is granted.

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_M7	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.

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

4.1.6 The pre-construction survey was carried out at Lin Fa Tei on 11, 12 and 13 March 2024 prior to the commencement of construction works at Lin Fa Tei. 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.

Post-translocation Monitoring

4.1.9 According to Section 5.2.5 of the approved 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.

4.1.10 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.

4.1.11 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.

4.1.12 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.

4.1.13 The upper and lower receptor sites of Ha Che and receptor site of Lin Fa Tei were visited on 22 April 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 and CH.C117.50 ~ CH.D239.03.

4.1.14 Site conditions of both receptor sites are similar to that during the pre-construction survey, i.e., no pollution, anthropogenic disturbance or change in vegetation was observed. Representative photos of the site conditions are presented in **Plate 4.1**.

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

4.1.15 None of the translocated individuals from the pre-construction survey 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 many rocks and riffles at the upper Ha Che receptor site and large and deep pools of water in the lower Ha Che and Lin Fa Tei receptor sites provides excellent refuge and protection for the crabs.

4.1.16 No individuals of *Cryptopotamon anacoluthon* and *Somanniathelphusa zanklon* without markings were also incidentally found in all three of the receptor sites either, which may be a result of continuous rainfall and increased waterflow flushing stream fauna away in the week prior to the monitoring.

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.

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 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 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 3, 10, 17 and 24 April 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 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.

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 3, 10, 17 and 24 April 2024 at the site portions listed in **Table 9.1** below.

Table 9.1 Site Inspection Record

Date	Inspected Site Portion	Time
3 April 2024	Lin Fa Tei and Ha Che	9:50 am – 11:30 am
10 April 2024	Lin Fa Tei	14:00 pm – 15:30 pm
17 April 2024	Lin Fa Tei, Ha Che, Sung Sang San Tsuen	14:00 pm – 16:00 pm
24 April 2024	Lin Fa Tei	14:15 pm – 15:00 pm

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
3 April 2024	Observation(s) and Recommendation(s) Nil	 Nil
10 April 2024	Observation(s) and Recommendation(s) Lin Fa Tei: 1. Inert materials nearby the drainage should be removed regularly to prevent surface run-off. 2. The stagnant water within the material storage zone should be removed or pumped.	 Lin Fa Tei: 1. Inert materials nearby the drainage had been removed regularly to prevent surface run-off. 2. The stagnant water within the material storage zone had been removed.
17 April 2024	Observation(s) and Recommendation(s) Nil	 Nil
24 April 2024	Observation(s) and Recommendation(s) Lin Fa Tei: 1. The NRMM label should be displayed on excavator “BH03” clearly.	 Lin Fa Tei: 1. The NRMM label had been displayed on excavator “BH03” clearly.

9.1.3 According to the EIA Study Report, Environmental Permit, contract documents and approved 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, two (2) action level exceedances for SS and seven (7) limit level exceedances for SS during impact water quality monitoring were recorded. After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

10.1.2 Exceedance of action level on SS was recorded during the regular monitoring at C8 on 10 April 2024. A geotextile was properly deployed onsite as the mitigation measure for preventing site runoff. No accidental site runoff was reported on 10 April 2024 at Lin Fa Tei. Sedimentation Tank and Sump Pump were deployed for directing the river water from the upstream of work area to the downstream of work area at Lin Fa Tei. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection at Lin Fa Tei on 10 April 2024. It is considered that the exceedance of action level of SS is not related to the Project.

10.1.3 Exceedance of action level on SS was recorded during the regular monitoring at C10 on 17 April 2024. A geotextile was properly deployed onsite and a water bypass was deployed to direct river water from the upstream of work area to the downstream of work area at Ha Che. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection at Ha Che on 17 April 2024. It is considered that the exceedance of action level of SS is not related to the Project.

10.1.4 Exceedance of limit level on SS was recorded during the regular monitoring at C1A on 19 April 2024. Since no construction work was carried out at Sung Shan New Village on 19 April 2024 and the work area remained in natural condition. It is considered that the exceedance of limit level of SS is not related to the Project.

10.1.5 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. 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

- Lifting Operation;
- Plant Operation;
- Excavation;
- Sheet Piling; and
- Installation of Precast unit

Lin Fa Tei

- Site Clearance Work
- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

Sung Shan New Village

- No Construction Work

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

- No effluent discharge would be allowed before acquired the effluent discharge license;

- 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 3rd Monthly EM&A Report presents the EM&A works during the reporting period from 1 April 2024 to 30 April 2024 in accordance with the approved EM&A Manual.

12.1.2 Two (2) action level exceedances for SS and seven (7) limit level exceedances for SS during impact water quality monitoring were recorded. After investigation, exceedances recorded on 10, 17 and 19 April 2024 were considered non-project related. Since the exceedances recorded on 23, 25, 27 and 29 April 2024 are under investigation, the results of investigation will be presented on next monthly EM&A report.

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 3, 10, 17 and 24 April 2024 by the ET in the reporting period.

12.1.5 No environmental complaint was received in the reporting period.

12.1.6 No notification of summons and prosecution was received in the reporting period.

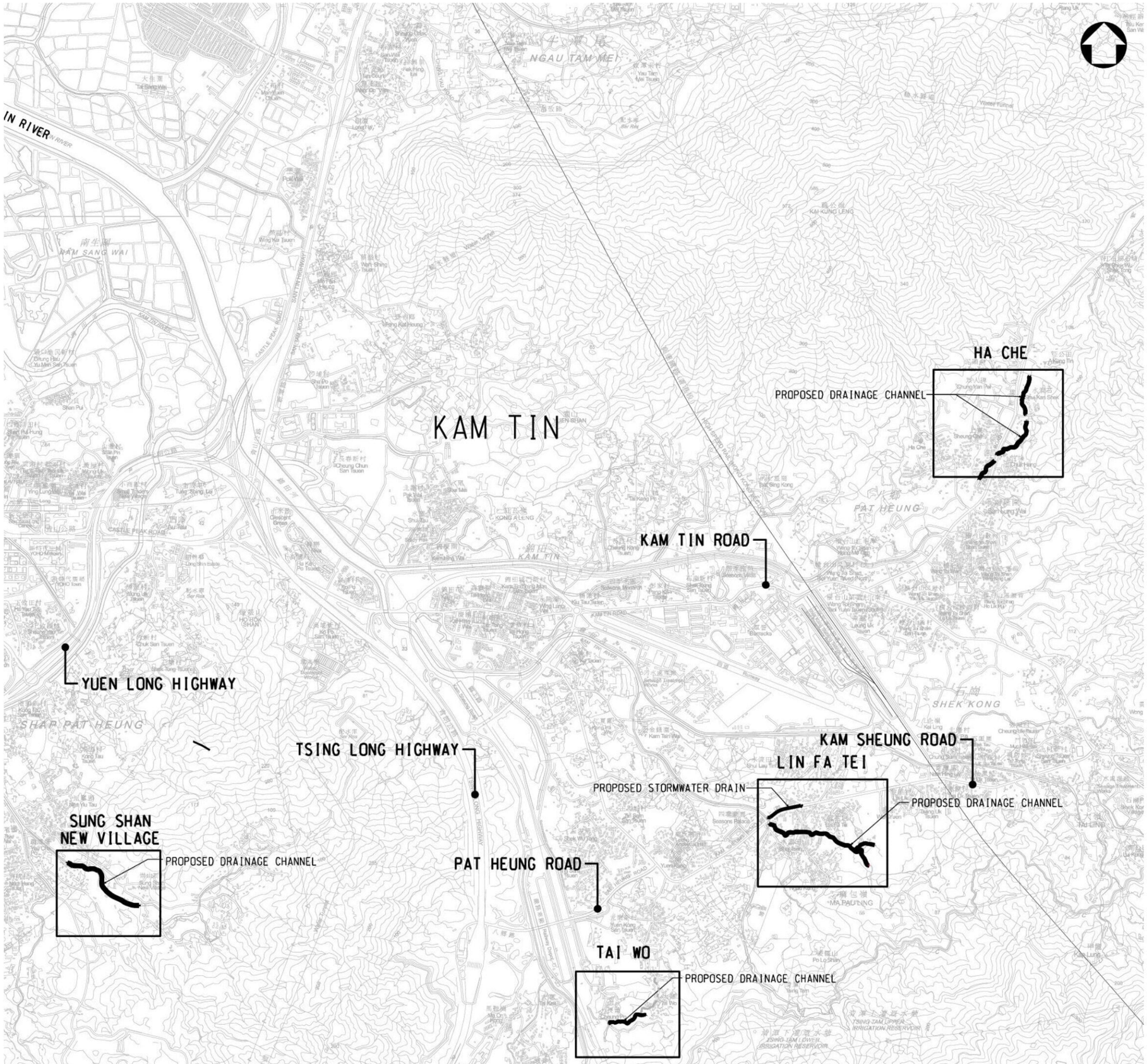
12.1.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

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: -

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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
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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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
SHUI TSJU SAN TSUEN
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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Project Management Division

Contract Title
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

TAI WO

大窩

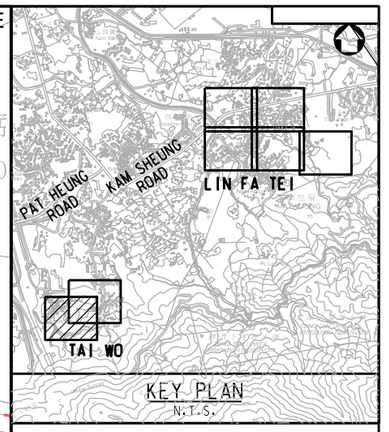
TAI WO

900CU

遊樂場
Playground

教堂
Church

啓業花園
Kai Yip Garden



KEY PLAN
N.T.S.

LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Rev.	Date	Description	By	Chk'd	Appr'd
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Drawing Status: CONTRACT

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Project Management Division

Contract Title
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

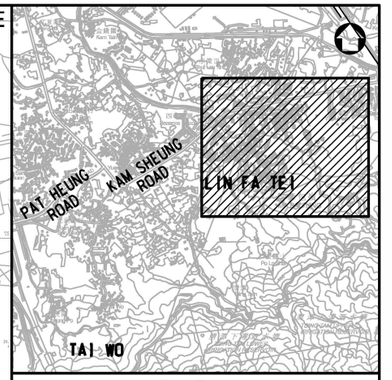
DO NOT SCALE

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

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

Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
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Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
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:

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

DO NOT SCALE

827700 E

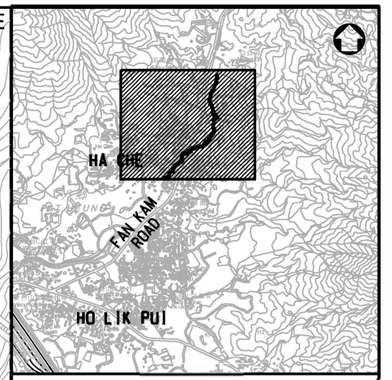
834800 N

834600 N

834400 N

Millimetres 100 0 10

HA CHE



KEY PLAN
N.T.S.

LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Rev.	Date	Description	By	Chk'd	Appr'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
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Contract Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title:
HA CHE -
GENERAL LAYOUT PLAN

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 1.2 d

Revision:

Figure 2.1 Impact Water Quality Monitoring Locations

0 50 100 200 300 400 Meters

C1A

C2

C3A

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

大嵩

TAI WO

TAI WO

900CU

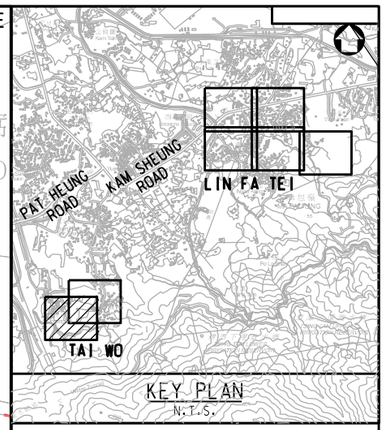
C5

C4

遊樂場
Playground

教堂
Church

啓業花園
Kai Yip Garden



LEGEND:

WORKS BOUNDARY

RECTANGULAR CHANNEL

Control Station

Impact Station

Flow Direction

Rev.	Date	Description	By	Chk'd	Appr'd
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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
1 : 500	SHC	AC	WCTT	KP
Original Size: A1	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022	Date: JUL 2022

Drawing Number: Figure 2.1b

Revision:

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

DO NOT SCALE

826800 E 827000 E 827200 E 827400 E 827600 E

832200 N

832000 N

831800 N

831600 N

KAM SHEUNG ROAD

LIN FA TEI

SHUI TSAN TIN

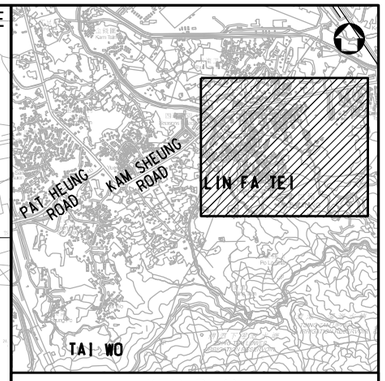
C8

C7A

C6

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

Millimetres 100 0 10



KEY PLAN
N.T.S.

LEGEND:

- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- 450CU — 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
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Suitability: -

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CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
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

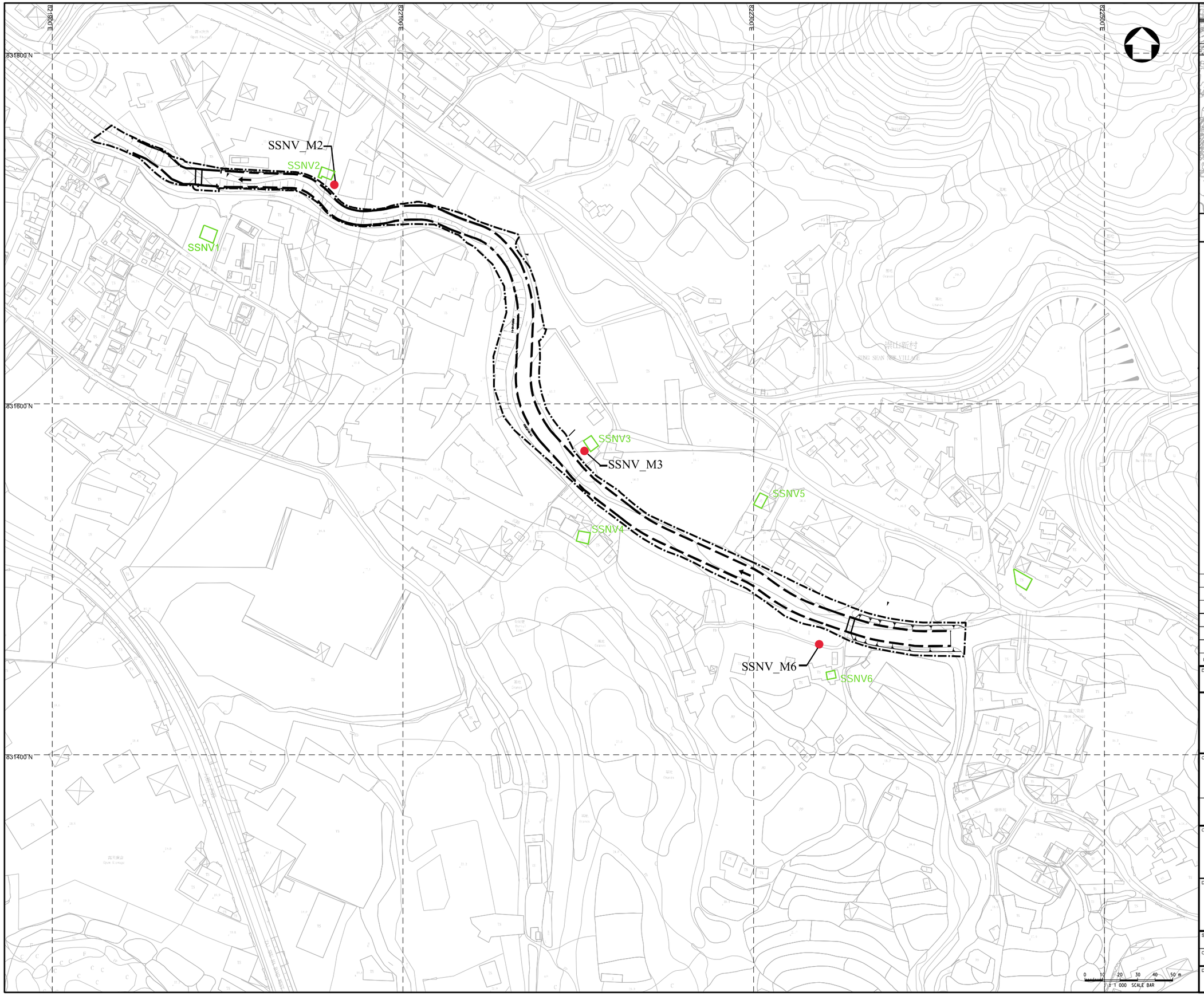
Flow Direction

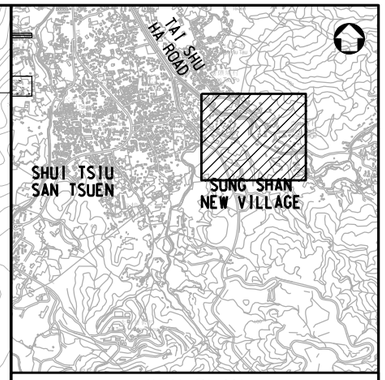
Project Title:
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

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
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Suitability: -

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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:

DO NOT SCALE

Millimetres 100 0 10

825500 E
825600 E
825700 E
830800 N
830700 N

CHEUNG PO

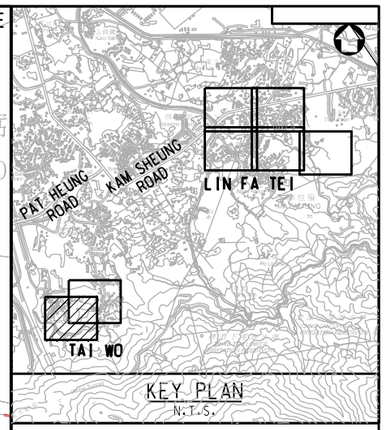
大嶼
TAI WO

TAI WO

TW_M2
TW_M3
TW1
TW2
TW3

900CU

遊樂場
Playground
教堂
Church
啓業花園
Kai Yip Garden



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

Rev.	Date	Description	By	Chk'd	Appr'd
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP
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Drawing Status: CONTRACT
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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
1 : 500	SHC	AC	WCTT	KP
Original Size	Date	Date	Date	Date
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Drawing Number: Figure 3.1b
Revision: A

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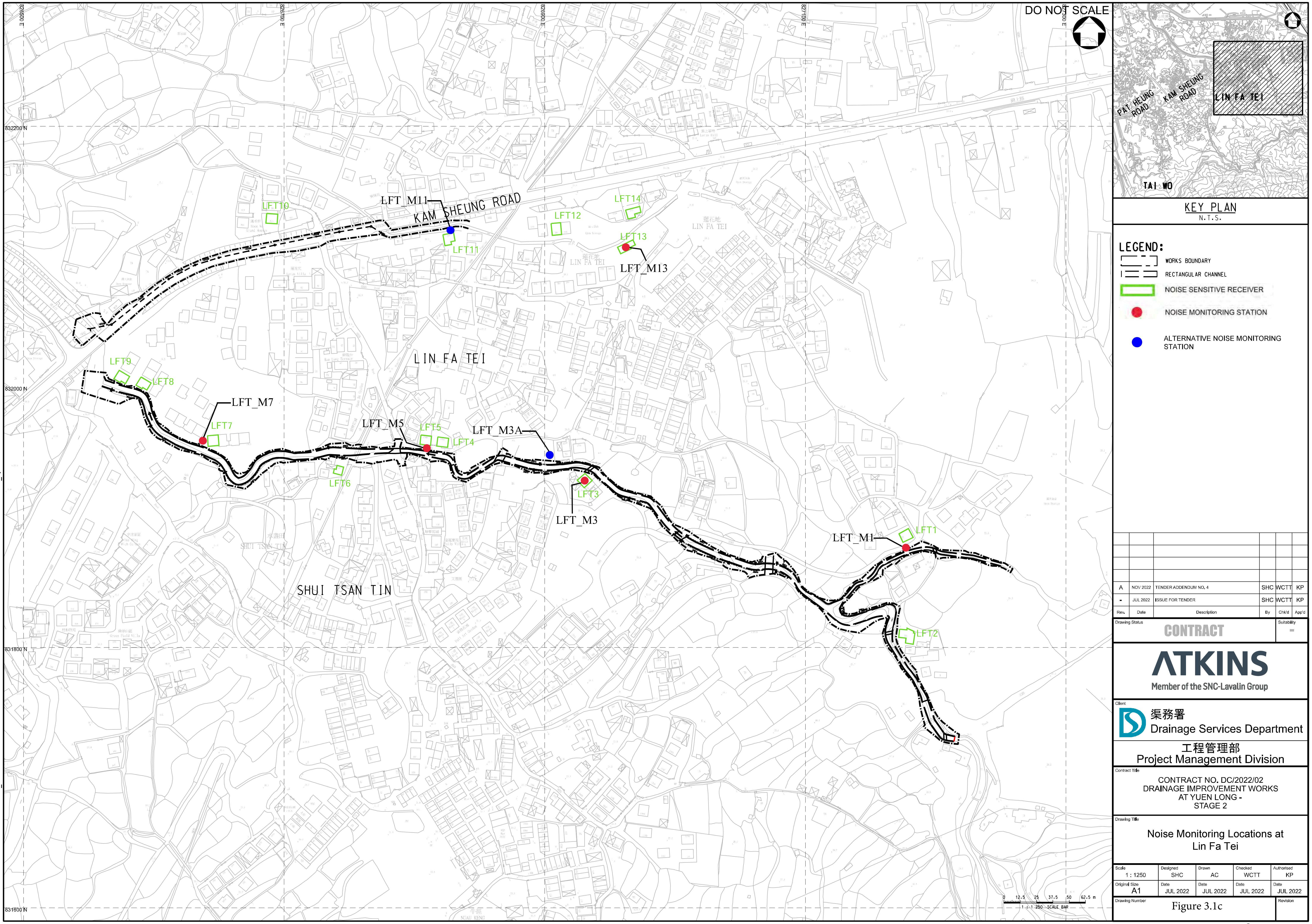
1 : 500 SCALE BAR



Rev.	Date	Description	By	Chk'd	App'd
A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
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Drawing Status: CONTRACT

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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 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

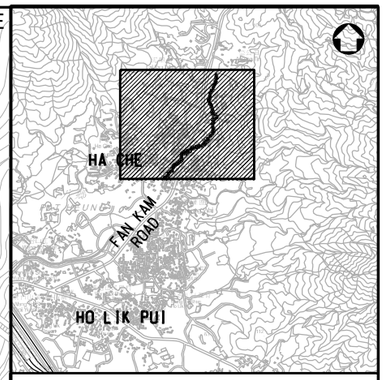
HC4

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	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022

Drawing Number: Figure 3.1d

Revision:

Figure 8.1 Area for Archaeological Survey

DO NOT SCALE

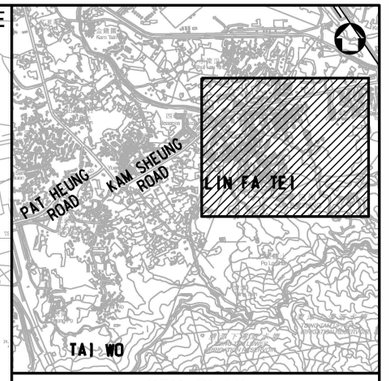
826600 E
826700 E
826800 E
826900 E
827000 E

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

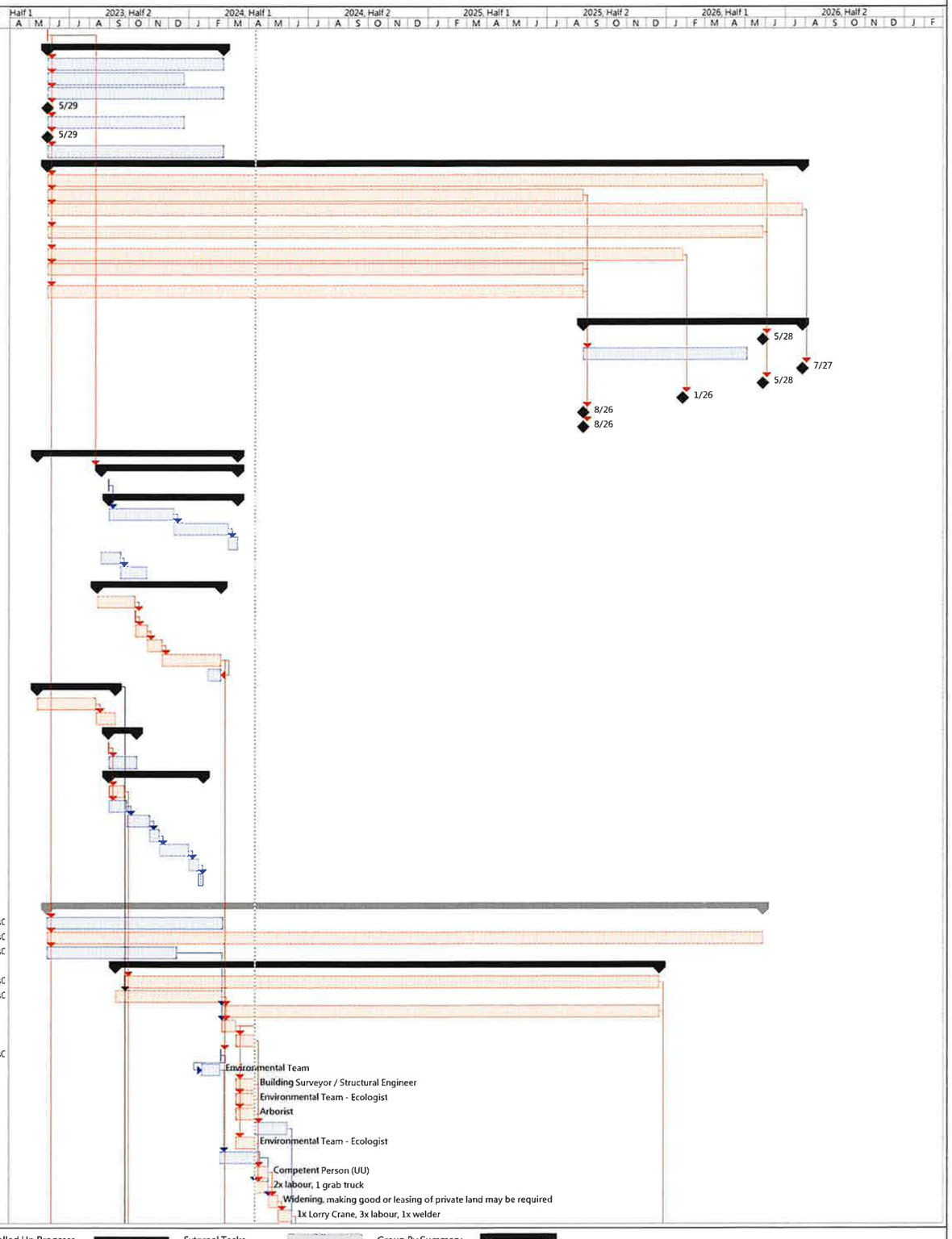
Drawing Number: Figure 8.1
Revision:

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 25/10/31	Mon 26/7/27	885 days		
3	Portion A	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/10/31	Mon 26/7/27	885 days		1
4	Portion B	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 25/12/30	Mon 26/7/27	945 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 25/10/31	Mon 26/7/27	885 days		1
6	Portion C3	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/7/27	Mon 26/7/27	1155 days		1
7	Portion D	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Tue 25/12/30	Mon 26/7/27	945 days		1
8	Portion E1	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 26/7/27	Mon 26/7/27	1155 days		1
9	Portion E2	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Fri 25/10/31	Mon 26/7/27	885 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 (1155day)	335 days	Tue 25/8/26	Mon 26/7/27	Tue 25/8/26	Mon 26/7/27	Wed 25/11/19	Mon 26/7/27	0 days		
40	Section I - Drainage Improvement Works at Sung Shan New Village	0 days	Thu 26/5/28	Thu 26/5/28	Thu 26/5/28	Thu 26/5/28	Mon 26/7/27	Mon 26/7/27	60 days		11
41	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 25/11/19	Mon 26/7/27	84 days		12
42	Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall constructi	0 days	Mon 26/7/27	Mon 26/7/27	Mon 26/7/27	Mon 26/7/27	Mon 26/7/27	Mon 26/7/27	0 days		13
43	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by t	0 days	Thu 26/5/28	Thu 26/5/28	Thu 26/5/28	Thu 26/5/28	Mon 26/7/27	Mon 26/7/27	60 days		14
44	Section V - Drainage Improvement Works at Shan Ha Tsuen	0 days	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/7/27	Mon 26/7/27	182 days		15
45	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam	0 days	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Mon 26/7/27	Mon 26/7/27	335 days		16
46	Section VII - Pipe Laying Works by Trenchless Method and Pipe Rehabilitation Work	0 days	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Tue 25/8/26	Mon 26/7/27	Mon 26/7/27	335 days		17
47											
48	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 26/7/27	0 days		
49	Project Manager's Accommodation	209 days	Mon 23/8/21	Sat 24/3/16	Mon 23/8/21	Sat 24/3/16	Sun 26/1/11	Mon 26/7/27	863 days		1FS-1 day
50	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	Sun 26/1/11	Sun 26/1/11	863 days	0	
51	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 26/1/12	Mon 26/7/27	863 days	0	
52	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 26/1/12	Tue 26/4/21	863 days		50
53	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 26/4/22	Mon 26/7/13	863 days	0	52
54	Issuance of check certificates [A]	14 days	Sun 24/3/3	Sat 24/3/16	Sun 24/3/3	Sat 24/3/16	Tue 26/7/14	Mon 26/7/27	863 days	0	53
55	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 26/5/19	Wed 26/6/17	1002 days	0	
56	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	Sun 23/10/29	Thu 26/6/18	Mon 26/7/27	1002 days	0 55
57	Environmental Team (ET) procurement	190 days	Tue 23/8/15	Tue 24/2/20	Tue 23/8/15	Tue 24/2/20	Tue 23/8/15	Mon 26/7/27	0 days		
58	C9 Tendering procedure [A]	58 days	Tue 23/8/15	Wed 23/10/11	Tue 23/8/15	Wed 23/10/11	Tue 23/8/15	Wed 23/10/11	0 days	0	
59	Commencement for ET (Aurecon) [A]	1 day	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	Thu 23/10/12	0 days	0	58
60	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	Fri 23/10/13	Mon 23/10/30	0 days	0	59
61	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	Tue 23/10/31	Wed 23/11/22	0 days	0	60
62	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	Thu 23/11/23	Tue 24/2/20	0 days	0	61
63	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 26/7/8	Mon 26/7/27	888 days	0	62FF
68	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		
69	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	
70	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	69
78	Works Area establishment	44 days	Fri 23/9/1	Sat 23/10/14	Fri 23/9/1	Sat 23/10/14	Fri 23/9/1	Mon 26/7/27	0 days		
79	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	Fri 23/9/1	0 days	0	
80	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 26/6/15	Mon 26/7/27	1017 days	0	79
81	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	Sat 23/9/2	Mon 26/7/27	0 days		
82	Establish temporary site office (containers) [A]	24 days	Sat 23/9/2	Mon 23/9/25	Sat 23/9/2	Mon 23/9/25	Sat 23/9/2	Mon 23/9/25	0 days	0	79
90	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 26/3/5	Wed 26/4/1	915 days	0	79
91	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 26/4/2	Wed 26/5/6	915 days	0	90
92	Construction of Footing [A]	15 days	Sat 23/11/4	Sat 23/11/18	Sat 23/11/4	Sat 23/11/18	Thu 26/5/7	Thu 26/5/21	915 days	0	91
93	Construction of Structure [A]	45 days	Sun 23/11/19	Tue 24/1/2	Sun 23/11/19	Tue 24/1/2	Fri 26/5/22	Sun 26/7/5	915 days	0	92
94	Interior furnishment and Furnitures [A]	15 days	Wed 24/1/3	Wed 24/1/17	Wed 24/1/3	Wed 24/1/17	Mon 26/7/6	Mon 26/7/20	915 days	0	93
95	Move-in [A]	7 days	Thu 24/1/18	Wed 24/1/24	Thu 24/1/18	Wed 24/1/24	Tue 26/7/21	Mon 26/7/27	915 days	0	94
96											
97	Section I	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		
2	access date of Portion A	270 days	Tue 23/5/30	Fri 24/2/23	Tue 23/5/30	Fri 24/2/23	Sun 24/9/1	Wed 25/5/28	460 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	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
5	Site Establishment	832 days	Tue 23/9/12	Sun 25/12/21	Tue 23/9/12	Sun 25/12/21	Tue 23/9/12	Sun 25/12/21	0 days		
6	Prepare and Accept Temp. Works Design and Method Statement	818 days	Tue 23/9/26	Sun 25/12/21	Tue 23/9/26	Sun 25/12/21	Tue 23/9/26	Sun 25/12/21	0 days	0	\\WingTatNasC
7	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
8	Initial Survey	668 days	Fri 24/2/23	Sun 25/12/21	Fri 24/2/23	Sun 25/12/21	Fri 24/2/23	Sun 25/12/21	0 days	0	7,4FS-1 day
9	Initial Safety & Environmental measures	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	7,4FS-1 day
12	Setup of instrumentation and monitoring	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	9
14	EIAO Commencement of Construction	1 day	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Tue 24/3/5	Tue 24/3/5	13 days	0	\\WingTatNasC
15	Environmental Baseline Monitoring	28 days	Tue 24/1/23	Mon 24/2/19	Tue 24/1/23	Mon 24/2/19	Mon 24/2/5	Sun 24/3/3	13 days	0	14FS-30 days
16	Condition Survey	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	9
17	Freshwater Crab Translocation Plan	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	9
18	Tree Survey	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	9
19	[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	Fri 24/4/19	Fri 24/6/7	7 days	0	18
20	Vegetation Survey	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	9
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 24/3/4	Thu 24/5/2	13 days	0	15
22	UU detection	21 days	Fri 24/4/12	Thu 24/5/2	Fri 24/4/12	Thu 24/5/2	Fri 24/4/12	Thu 24/5/2	0 days	0	16,17
23	Site Clearance	21 days	Fri 24/4/12	Thu 24/5/2	Fri 24/4/12	Thu 24/5/2	Fri 24/4/12	Thu 24/5/2	0 days	0	18,12,15,9,20
24	Establish access(es) to channels	15 days	Fri 24/5/3	Fri 24/5/17	Fri 24/5/3	Fri 24/5/17	Fri 24/5/3	Fri 24/5/17	0 days	0	23,22,21
25	Guarding / Barrier / Hoarding	21 days	Sat 24/5/18	Fri 24/6/7	Sat 24/5/18	Fri 24/6/7	Sat 24/5/18	Fri 24/6/7	0 days	0	24



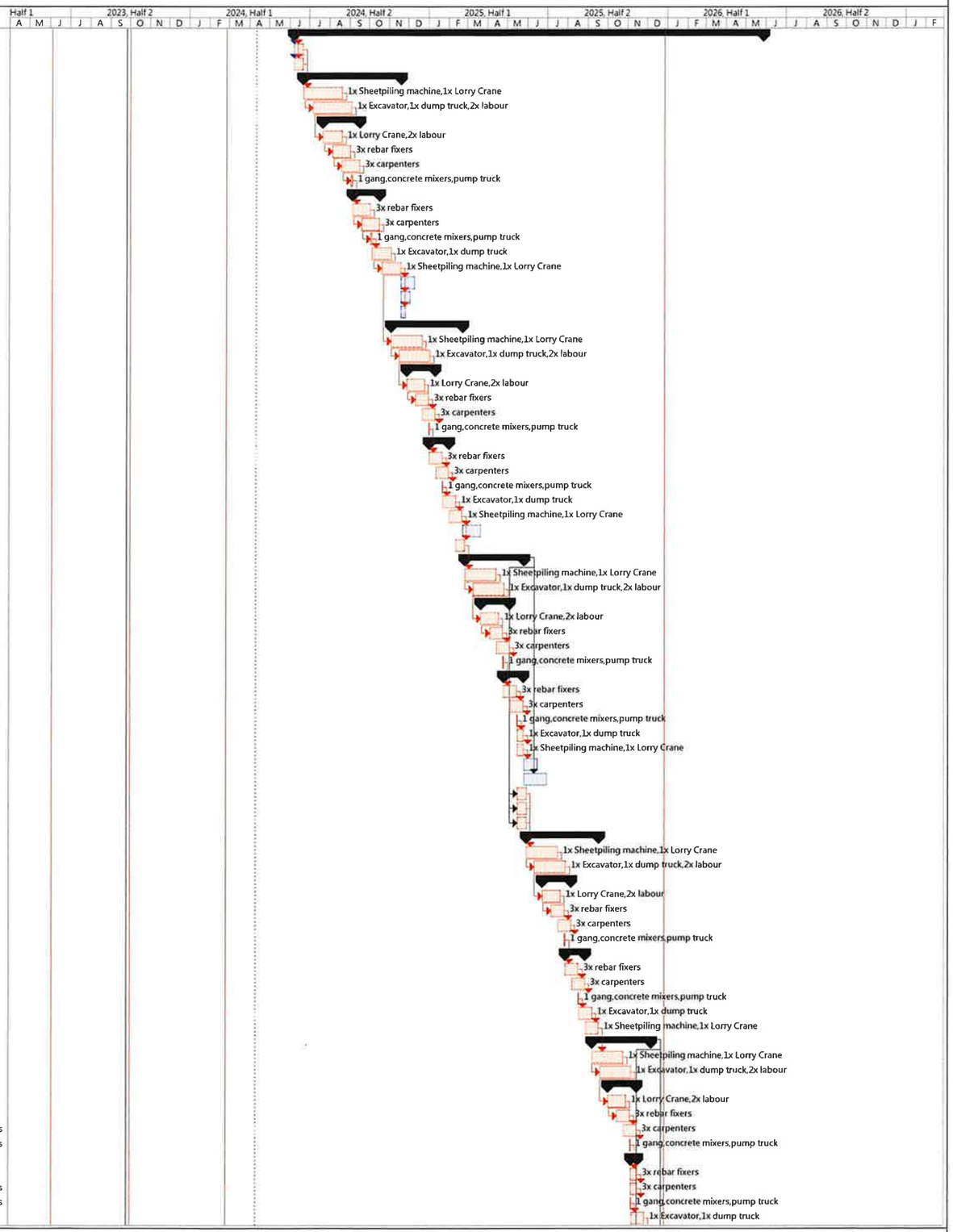
Revision : 7.0 Date: 31 March 2024

´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
26	**Drainage Channels Works**	**720 days**	**Sat 24/6/8**	**Thu 26/5/28**	**Sat 24/6/8**	**Thu 26/5/28**	**Sat 24/6/8**	**Thu 26/5/28**	**0 days**		
27	Demolish & relocate metal frame YLL796/B/6	14 days	Sat 24/6/8	Fri 24/6/21	Sat 24/6/8	Fri 24/6/21	Sat 24/6/8	Fri 24/6/21	0 days	0	25,19
28	Demolish & relocate metal frame YLL796/B/7-8	14 days	Sat 24/6/8	Fri 24/6/21	Sat 24/6/8	Fri 24/6/21	Sat 24/6/8	Fri 24/6/21	0 days	0	25,19
29	**CH.A500.00~CH.A608.13**	**151 days**	**Sat 24/6/22**	**Tue 24/11/19**	**Sat 24/6/22**	**Tue 24/11/19**	**Sat 24/6/22**	**Tue 24/11/19**	**0 days**		
30	Sheetpiling & Temp. Drainage Diversion	60 days	Sat 24/6/22	Tue 24/8/20	Sat 24/6/22	Tue 24/8/20	Sat 24/6/22	Tue 24/8/20	0 days	3	27,28
31	Excavation and Lateral Support	60 days	Sun 24/7/7	Wed 24/9/4	Sun 24/7/7	Wed 24/9/4	Sun 24/7/7	Wed 24/9/4	0 days	3	30FS-45 days
32	**Ground and Edge Beams**	**57 days**	**Mon 24/7/22**	**Mon 24/9/16**	**Mon 24/7/22**	**Mon 24/9/16**	**Mon 24/7/22**	**Mon 24/9/16**	**0 days**		
33	Install precast portion (ground beam)	30 days	Mon 24/7/22	Tue 24/8/20	Mon 24/7/22	Tue 24/8/20	Mon 24/7/22	Tue 24/8/20	0 days	0	31FS-45 days
34	Rebar Fixing	28 days	Tue 24/8/6	Mon 24/9/2	Tue 24/8/6	Mon 24/9/2	Tue 24/8/6	Mon 24/9/2	0 days	2	33FS-15 days
35	Formwork Erection and Cast-in items	28 days	Tue 24/8/20	Mon 24/9/16	Tue 24/8/20	Mon 24/9/16	Tue 24/8/20	Mon 24/9/16	0 days	2	34FS-14 days
36	Concreting	3 days	Tue 24/9/3	Thu 24/9/5	Tue 24/9/3	Thu 24/9/5	Tue 24/9/3	Thu 24/9/5	0 days	2	35FS-14 days
37	**Walls**	**42 days**	**Fri 24/9/6**	**Thu 24/10/17**	**Fri 24/9/6**	**Thu 24/10/17**	**Fri 24/9/6**	**Thu 24/10/17**	**0 days**		
38	Rebar Fixing	28 days	Fri 24/9/6	Thu 24/10/3	Fri 24/9/6	Thu 24/10/3	Fri 24/9/6	Thu 24/10/3	0 days	2	36
39	Formwork Erection and Cast-in items	28 days	Fri 24/9/20	Thu 24/10/17	Fri 24/9/20	Thu 24/10/17	Fri 24/9/20	Thu 24/10/17	0 days	2	38FS-14 days
40	Concreting	2 days	Fri 24/10/4	Sat 24/10/5	Fri 24/10/4	Sat 24/10/5	Fri 24/10/4	Sat 24/10/5	0 days	2	39FS-14 days
41	Backfilling and Compaction	30 days	Sun 24/10/6	Mon 24/11/4	Sun 24/10/6	Mon 24/11/4	Sun 24/10/6	Mon 24/11/4	0 days	0	40
42	Removal of Sheetpiles	30 days	Mon 24/10/21	Tue 24/11/19	Mon 24/10/21	Tue 24/11/19	Mon 24/10/21	Tue 24/11/19	0 days	0	41FS-15 days
43	Modify ex. Channel at Outlet	21 days	Wed 24/11/20	Tue 24/12/10	Wed 24/11/20	Tue 24/12/10	Fri 26/5/8	Thu 26/5/28	534 days	0	42
44	Excavate & Backfill ex. Unregistered feature	14 days	Wed 24/11/20	Tue 24/12/3	Wed 24/11/20	Tue 24/12/3	Fri 26/5/15	Thu 26/5/28	541 days	0	42
45	Relocate/Divert ex. Utilities	7 days	Wed 24/11/20	Tue 24/11/26	Wed 24/11/20	Tue 24/11/26	Fri 26/5/22	Thu 26/5/28	548 days	0	42
46	**CH.A400.00~CH.A500.00**	**110 days**	**Tue 24/11/5**	**Sat 25/2/22**	**Tue 24/11/5**	**Sat 25/2/22**	**Tue 24/11/5**	**Sat 25/2/22**	**0 days**		
47	Sheetpiling & Temp. Drainage Diversion	48 days	Tue 24/11/5	Sun 24/12/22	Tue 24/11/5	Sun 24/12/22	Tue 24/11/5	Sun 24/12/22	0 days	2	42FS-15 days
48	Excavation and Lateral Support	48 days	Sun 24/11/17	Fri 25/1/3	Sun 24/11/17	Fri 25/1/3	Sun 24/11/17	Fri 25/1/3	0 days	2	47FS-36 days
49	**Ground and Edge Beams**	**44 days**	**Fri 24/11/29**	**Sat 25/1/11**	**Fri 24/11/29**	**Sat 25/1/11**	**Fri 24/11/29**	**Sat 25/1/11**	**0 days**		
50	Install precast portion (ground beam)	28 days	Fri 24/11/29	Thu 24/12/26	Fri 24/11/29	Thu 24/12/26	Fri 24/11/29	Thu 24/12/26	0 days	0	48FS-36 days
51	Rebar Fixing	20 days	Fri 24/12/13	Wed 25/1/1	Fri 24/12/13	Wed 25/1/1	Fri 24/12/13	Wed 25/1/1	0 days	1	50FS-14 days
52	Formwork Erection and Cast-in items	20 days	Mon 24/12/23	Sat 25/1/11	Mon 24/12/23	Sat 25/1/11	Mon 24/12/23	Sat 25/1/11	0 days	1	51FS-10 days
53	Concreting	1 day	Thu 25/1/2	Thu 25/1/2	Thu 25/1/2	Thu 25/1/2	Thu 25/1/2	Thu 25/1/2	0 days	0	52FS-10 days
54	**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**		
55	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	53
56	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	55FS-10 days
57	Concreting	1 day	Thu 25/1/23	Thu 25/1/23	Thu 25/1/23	Thu 25/1/23	Thu 25/1/23	Thu 25/1/23	0 days	0	56FS-10 days
58	Backfilling and Compaction	20 days	Fri 25/1/24	Wed 25/2/12	Fri 25/1/24	Wed 25/2/12	Fri 25/1/24	Wed 25/2/12	0 days	0	57
59	Removal of Sheetpiles	20 days	Mon 25/2/3	Sat 25/2/22	Mon 25/2/3	Sat 25/2/22	Mon 25/2/3	Sat 25/2/22	0 days	0	58FS-10 days
60	Pedestrian Crossing no. 1	28 days	Sun 25/2/23	Sat 25/3/22	Sun 25/2/23	Sat 25/3/22	Fri 26/5/1	Thu 26/5/28	432 days	0	59
61	Demolish & relocate metal frame YLL796/B/9	14 days	Thu 25/2/13	Wed 25/2/26	Thu 25/2/13	Wed 25/2/26	Thu 25/2/13	Wed 25/2/26	0 days	0	59FS-10 days
62	**CH.A300.00~CH.A400.00**	**90 days**	**Thu 25/2/27**	**Tue 25/5/27**	**Thu 25/2/27**	**Tue 25/5/27**	**Thu 25/2/27**	**Tue 25/5/27**	**0 days**		
63	Sheetpiling & Temp. Drainage Diversion	48 days	Thu 25/2/27	Tue 25/4/15	Thu 25/2/27	Tue 25/4/15	Thu 25/2/27	Tue 25/4/15	0 days	2	61
64	Excavation and Lateral Support	48 days	Tue 25/3/11	Sun 25/4/27	Tue 25/3/11	Sun 25/4/27	Tue 25/3/11	Sun 25/4/27	0 days	2	63FS-36 days
65	**Ground and Edge Beams**	**44 days**	**Sun 25/3/23**	**Mon 25/5/5**	**Sun 25/3/23**	**Mon 25/5/5**	**Sun 25/3/23**	**Mon 25/5/5**	**0 days**		
66	Install precast portion (ground beam)	28 days	Sun 25/3/23	Sat 25/4/19	Sun 25/3/23	Sat 25/4/19	Sun 25/3/23	Sat 25/4/19	0 days	0	64FS-36 days
67	Rebar Fixing	20 days	Sun 25/4/6	Fri 25/4/25	Sun 25/4/6	Fri 25/4/25	Sun 25/4/6	Fri 25/4/25	0 days	1	66FS-14 days
68	Formwork Erection and Cast-in items	20 days	Wed 25/4/16	Mon 25/5/5	Wed 25/4/16	Mon 25/5/5	Wed 25/4/16	Mon 25/5/5	0 days	1	67FS-10 days
69	Concreting	1 day	Sat 25/4/26	Sat 25/4/26	Sat 25/4/26	Sat 25/4/26	Sat 25/4/26	Sat 25/4/26	0 days	0	68FS-10 days
70	**Walls**	**30 days**	**Sun 25/4/27**	**Mon 25/5/26**	**Sun 25/4/27**	**Mon 25/5/26**	**Sun 25/4/27**	**Mon 25/5/26**	**0 days**		
71	Rebar Fixing	20 days	Sun 25/4/27	Fri 25/5/16	Sun 25/4/27	Fri 25/5/16	Sun 25/4/27	Fri 25/5/16	0 days	1	69
72	Formwork Erection and Cast-in items	20 days	Wed 25/5/7	Mon 25/5/26	Wed 25/5/7	Mon 25/5/26	Wed 25/5/7	Mon 25/5/26	0 days	1	71FS-10 days
73	Concreting	1 day	Sat 25/5/17	Sat 25/5/17	Sat 25/5/17	Sat 25/5/17	Sat 25/5/17	Sat 25/5/17	0 days	0	72FS-10 days
74	Backfilling and Compaction	10 days	Sun 25/5/18	Tue 25/5/27	Sun 25/5/18	Tue 25/5/27	Sun 25/5/18	Tue 25/5/27	0 days	0	73
75	Removal of Sheetpiles	10 days	Sun 25/5/18	Tue 25/5/27	Sun 25/5/18	Tue 25/5/27	Sun 25/5/18	Tue 25/5/27	0 days	0	74FS-10 days
76	Animal Escape Ramp	21 days	Wed 25/5/28	Tue 25/6/17	Wed 25/5/28	Tue 25/6/17	Fri 26/5/8	Thu 26/5/28	345 days	0	75
77	1:2 slope works	35 days	Wed 25/5/28	Tue 25/7/1	Wed 25/5/28	Tue 25/7/1	Fri 26/4/24	Thu 26/5/28	331 days	5	62
78	Demolish & relocate wall, hoarding YLL796/B/13,13B	14 days	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	0 days	0	62FS-10 days
79	Demolish & relocate OSC YLL796/B/14A,14B	14 days	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	0 days	0	62FS-10 days
80	Demolish & relocate fence & wall YLL796/B/14	14 days	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	Sun 25/5/18	Sat 25/5/31	0 days	0	62FS-10 days
81	**CH.A200.00~CH.A300.00**	**110 days**	**Sun 25/6/1**	**Thu 25/9/18**	**Sun 25/6/1**	**Thu 25/9/18**	**Sun 25/6/1**	**Thu 25/9/18**	**0 days**		
82	Sheetpiling & Temp. Drainage Diversion	48 days	Sun 25/6/1	Fri 25/7/18	Sun 25/6/1	Fri 25/7/18	Sun 25/6/1	Fri 25/7/18	0 days	2	78,79,80
83	Excavation and Lateral Support	48 days	Fri 25/6/13	Wed 25/7/30	Fri 25/6/13	Wed 25/7/30	Fri 25/6/13	Wed 25/7/30	0 days	2	82FS-36 days
84	**Ground and Edge Beams**	**44 days**	**Wed 25/6/25**	**Thu 25/8/7**	**Wed 25/6/25**	**Thu 25/8/7**	**Wed 25/6/25**	**Thu 25/8/7**	**0 days**		
85	Install precast portion (ground beam)	28 days	Wed 25/6/25	Tue 25/7/22	Wed 25/6/25	Tue 25/7/22	Wed 25/6/25	Tue 25/7/22	0 days	0	83FS-36 days
86	Rebar Fixing	20 days	Wed 25/7/9	Mon 25/7/28	Wed 25/7/9	Mon 25/7/28	Wed 25/7/9	Mon 25/7/28	0 days	1	85FS-14 days
87	Formwork Erection and Cast-in items	20 days	Sat 25/7/19	Thu 25/8/7	Sat 25/7/19	Thu 25/8/7	Sat 25/7/19	Thu 25/8/7	0 days	1	86FS-10 days
88	Concreting	1 day	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	0 days	0	87FS-10 days
89	**Walls**	**30 days**	**Wed 25/7/30**	**Thu 25/8/28**	**Wed 25/7/30**	**Thu 25/8/28**	**Wed 25/7/30**	**Thu 25/8/28**	**0 days**		
90	Rebar Fixing	20 days	Wed 25/7/30	Mon 25/8/18	Wed 25/7/30	Mon 25/8/18	Wed 25/7/30	Mon 25/8/18	0 days	1	88
91	Formwork Erection and Cast-in items	20 days	Sat 25/8/9	Thu 25/8/28	Sat 25/8/9	Thu 25/8/28	Sat 25/8/9	Thu 25/8/28	0 days	1	90FS-10 days
92	Concreting	1 day	Tue 25/8/19	Tue 25/8/19	Tue 25/8/19	Tue 25/8/19	Tue 25/8/19	Tue 25/8/19	0 days	0	91FS-10 days
93	Backfilling and Compaction	20 days	Wed 25/8/20	Mon 25/9/8	Wed 25/8/20	Mon 25/9/8	Wed 25/8/20	Mon 25/9/8	0 days	0	92
94	Removal of Sheetpiles	20 days	Sat 25/8/30	Thu 25/9/18	Sat 25/8/30	Thu 25/9/18	Sat 25/8/30	Thu 25/9/18	0 days	0	93FS-10 days
95	**CH.A100.00~CH.A200.00**	**90 days**	**Tue 25/9/9**	**Sun 25/12/7**	**Tue 25/9/9**	**Sun 25/12/7**	**Tue 25/9/9**	**Sun 25/12/7**	**0 days**		
96	Sheetpiling & Temp. Drainage Diversion	48 days	Tue 25/9/9	Sun 25/10/26	Tue 25/9/9	Sun 25/10/26	Tue 25/9/9	Sun 25/10/26	0 days	2	94FS-10 days
97	Excavation and Lateral Support	48 days	Sun 25/9/21	Fri 25/11/7	Sun 25/9/21	Fri 25/11/7	Sun 25/9/21	Fri 25/11/7	0 days	2	96FS-36 days
98	**Ground and Edge Beams**	**44 days**	**Fri 25/10/3**	**Sat 25/11/15**	**Fri 25/10/3**	**Sat 25/11/15**	**Fri 25/10/3**	**Sat 25/11/15**	**0 days**		
99	Install precast portion (ground beam)	28 days	Fri 25/10/3	Thu 25/10/30	Fri 25/10/3	Thu 25/10/30	Fri 25/10/3	Thu 25/10/30	0 days	0	97FS-36 days
100	Rebar Fixing	20 days	Fri 25/10/17	Wed 25/11/5	Fri 25/10/17	Wed 25/11/5	Fri 25/10/17	Wed 25/11/5	0 days	1	99FS-14 days
101	Formwork Erection and Cast-in items	20 days	Mon 25/10/27	Sat 25/11/15	Mon 25/10/27	Sat 25/11/15	Mon 25/10/27	Sat 25/11/15	0 days	1	100FS-10 days
102	Concreting	1 day	Thu 25/11/6	Thu 25/11/6	Thu 25/11/6	Thu 25/11/6	Thu 25/11/6	Thu 25/11/6	0 days	0	101FS-10 days
103	**Walls**	**10 days**	**Fri 25/11/7**	**Sun 25/11/16**	**Fri 25/11/7**	**Sun 25/11/16**	**Fri 25/11/7**	**Sun 25/11/16**	**0 days**		
104	Rebar Fixing	10 days	Fri 25/11/7	Sun 25/11/16	Fri 25/11/7	Sun 25/11/16	Fri 25/11/7	Sun 25/11/16	0 days	1	102
105	Formwork Erection and Cast-in items	10 days	Fri 25/11/7	Sun 25/11/16	Fri 25/11/7	Sun 25/11/16	Fri 25/11/7	Sun 25/11/16	0 days	1	104FS-10 days
106	Concreting	1 day	Fri 25/11/7	Fri 25/11/7	Fri 25/11/7	Fri 25/11/7	Fri 25/11/7	Fri 25/11/7	0 days	0	105FS-10 days
107	Backfilling and Compaction	20 days	Sat 25/11/8	Thu 25/11/27	Sat 25/11/8	Thu 25/11/27	Sat 25/11/8	Thu 25/11/27	0 days	0	106



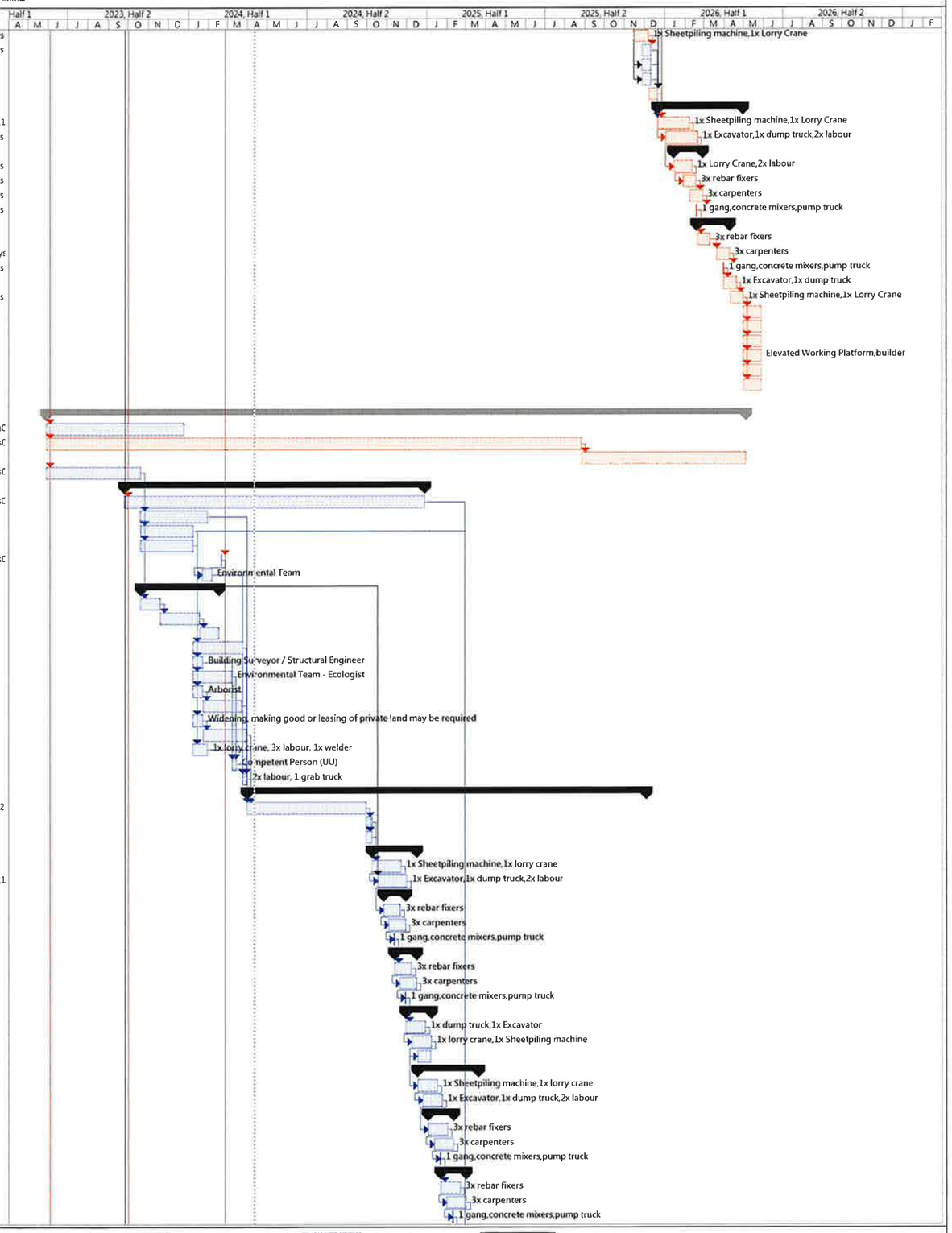
Revision.: 7.0 Date: 31 March 2024

'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
108	Removal of Sheetpiles	20 days	Tue 25/11/18	Sun 25/12/7	Tue 25/11/18	Sun 25/12/7	Tue 25/11/18	Sun 25/12/7	0 days	0	107FS-10 days
109	Demolish & relocate wall and porch YLL796/B/5,5A	14 days	Fri 25/11/28	Thu 25/12/11	Fri 25/11/28	Thu 25/12/11	Mon 25/12/8	Sun 25/12/21	10 days	0	108FS-10 days
110	Demolish & relocate booth, metal frame YLL796/B/16	14 days	Fri 25/11/28	Thu 25/12/11	Fri 25/11/28	Thu 25/12/11	Mon 25/12/8	Sun 25/12/21	10 days	0	95FS-10 days
111	Demolish & relocate wall YLL796/B/17	14 days	Fri 25/11/28	Thu 25/12/11	Fri 25/11/28	Thu 25/12/11	Mon 25/12/8	Sun 25/12/21	10 days	0	95FS-10 days
112	Relocate/Divert ex. Utilities	14 days	Mon 25/12/8	Sun 25/12/21	Mon 25/12/8	Sun 25/12/21	Mon 25/12/8	Sun 25/12/21	0 days	0	95
113	**CH.A0.00~CH.A100.00**	**130 days**	**Mon 25/12/22**	**Thu 26/4/30**	##########	**Thu 26/4/30**	##########	**Thu 26/4/30**	**0 days**		
114	Sheetpiling & Temp. Drainage Diversion	48 days	Mon 25/12/22	Sat 26/2/7	Mon 25/12/22	Sat 26/2/7	Mon 25/12/22	Sat 26/2/7	0 days	2	109,110,111,11
115	Excavation and Lateral Support	48 days	Sat 26/1/3	Thu 26/2/19	Sat 26/1/3	Thu 26/2/19	Sat 26/1/3	Thu 26/2/19	0 days	2	114FS-36 days
116	**Ground and Edge Beams**	**44 days**	**Thu 26/1/15**	**Fri 26/2/27**	**Thu 26/1/15**	**Fri 26/2/27**	**Thu 26/1/15**	**Fri 26/2/27**	**0 days**		
117	Install precast portion (ground beam)	28 days	Thu 26/1/15	Wed 26/2/11	Thu 26/1/15	Wed 26/2/11	Thu 26/1/15	Wed 26/2/11	0 days	0	115FS-36 days
118	Rebar Fixing	20 days	Thu 26/1/29	Tue 26/2/17	Thu 26/1/29	Tue 26/2/17	Thu 26/1/29	Tue 26/2/17	0 days	1	117FS-14 days
119	Formwork Erection and Cast-in items	20 days	Sun 26/2/8	Fri 26/2/27	Sun 26/2/8	Fri 26/2/27	Sun 26/2/8	Fri 26/2/27	0 days	1	118FS-10 days
120	Concreting	1 day	Wed 26/2/18	Wed 26/2/18	Wed 26/2/18	Wed 26/2/18	Wed 26/2/18	Wed 26/2/18	0 days	0	119FS-10 days
121	**Walls**	**50 days**	**Thu 26/2/19**	**Thu 26/4/9**	**Thu 26/2/19**	**Thu 26/4/9**	**Thu 26/2/19**	**Thu 26/4/9**	**0 days**		
122	Rebar Fixing	20 days	Thu 26/2/19	Tue 26/3/10	Thu 26/2/19	Tue 26/3/10	Thu 26/2/19	Tue 26/3/10	0 days	1	120
123	Formwork Erection and Cast-in items	20 days	Sat 26/3/21	Thu 26/4/9	Sat 26/3/21	Thu 26/4/9	Sat 26/3/21	Thu 26/4/9	0 days	1	122FS+10 days
124	Concreting	1 day	Tue 26/3/31	Tue 26/3/31	Tue 26/3/31	Tue 26/3/31	Tue 26/3/31	Tue 26/3/31	0 days	0	123FS-10 days
125	Backfilling and Compaction	20 days	Wed 26/4/1	Mon 26/4/20	Wed 26/4/1	Mon 26/4/20	Wed 26/4/1	Mon 26/4/20	0 days	0	124
126	Removal of Sheetpiles	20 days	Sat 26/4/11	Thu 26/4/30	Sat 26/4/11	Thu 26/4/30	Sat 26/4/11	Thu 26/4/30	0 days	0	125FS-10 days
127	Pedestrian Crossing no. 2	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
128	Connection to ex. Stream	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
129	U-channels	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
130	Facing stone	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
131	ABWF works	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
132	Bedding works	28 days	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	Fri 26/5/1	Thu 26/5/28	0 days	0	126
98											
99	**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 25/10/7	Mon 26/5/4	861 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	[NCExxx] [EWN008] Extension of time for section II due to blockade of access	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	Sun 23/10/15	Wed 24/3/6	138 days	0	\\WingTatNasC
6	**Site Establishment**	**461 days**	**Tue 23/9/26**	**Sun 24/12/29**	**Tue 23/9/26**	**Sun 24/12/29**	**Thu 24/3/7**	**Wed 25/7/16**	**163 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	Fri 24/4/12	Wed 25/7/16	199 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	Mon 24/5/6	Fri 24/8/16	199 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	Thu 24/3/7	Sat 24/5/25	138 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	Thu 24/3/7	Sat 24/5/25	138 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	Sat 24/8/24	Sat 24/8/24	185 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	Fri 24/7/26	Fri 24/8/9	185 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 24/11/6**	**Wed 25/3/5**	**382 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 24/11/6	Thu 24/12/5	382 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 24/12/6	Mon 25/2/3	382 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 25/2/4	Wed 25/3/5	382 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	Sun 24/5/26	Fri 24/8/9	138 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	Fri 24/7/26	Fri 24/8/9	199 days	0	10,9
21	Freshwater Crab Translocation Plan	60 days	Tue 24/1/9	Fri 24/3/8	Tue 24/1/9	Fri 24/3/8	Tue 24/6/11	Fri 24/8/9	154 days	0	10,9
22	Tree Survey [A]	15 days	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	Mon 24/6/3	Mon 24/6/17	146 days	0	10,9
23	[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	Tue 24/6/18	Fri 24/8/16	146 days	0	22
24	Establish access(es) to channels	15 days	Tue 24/1/9	Tue 24/1/23	Tue 24/1/9	Tue 24/1/23	Sun 24/5/26	Sun 24/6/9	138 days	0	10,9
25	[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	Mon 24/6/10	Fri 24/8/16	138 days	0	24
26	Guarding / Barrier / Hoarding	22 days	Tue 24/1/9	Tue 24/1/30	Tue 24/1/9	Tue 24/1/30	Fri 24/7/26	Fri 24/8/16	199 days	0	10,9
27	UU detection	7 days	Sat 24/3/9	Fri 24/3/15	Sat 24/3/9	Fri 24/3/15	Sat 24/8/10	Fri 24/8/16	154 days	0	20,21,24
28	Site Clearance	7 days	Mon 24/3/25	Sun 24/3/31	Mon 24/3/25	Sun 24/3/31	Sat 24/8/10	Fri 24/8/16	138 days	0	22,19,13
29	**Drainage Channels Works (Dry Season Oct-Mar only)**	**613 days**	**Mon 24/4/1**	**Thu 25/12/4**	**Mon 24/4/1**	**Thu 25/12/4**	**Sat 24/8/17**	**Mon 26/5/4**	**138 days**		
30	[NCExxx] No works for wet season	183 days	Mon 24/4/1	Mon 24/9/30	Mon 24/4/1	Mon 24/9/30	Sat 24/8/17	Sat 25/2/15	138 days		28,26,27,8,25,2
31	Demolish fences and temp. structure	9 days	Tue 24/10/1	Wed 24/10/9	Tue 24/10/1	Wed 24/10/9	Sun 25/2/16	Mon 25/2/24	138 days	0	30
32	Demolish & relocate hoarding, fencing YLL803	9 days	Tue 24/10/1	Wed 24/10/9	Tue 24/10/1	Wed 24/10/9	Sun 25/2/16	Mon 25/2/24	138 days	0	30
33	**CH.A200~CH.A288.29**	**69 days**	**Thu 24/10/10**	**Tue 24/12/17**	**Thu 24/10/10**	**Tue 24/12/17**	**Tue 25/2/25**	**Sun 25/5/4**	**138 days**		
34	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	45 days	Thu 24/10/10	Sat 24/11/23	Thu 24/10/10	Sat 24/11/23	Tue 25/2/25	Thu 25/4/10	138 days	1	31,32
35	Excavation and Lateral Support	45 days	Sat 24/10/19	Mon 24/12/2	Sat 24/10/19	Mon 24/12/2	Thu 25/3/6	Sat 25/4/19	138 days	1	34FS-36 days,1
36	**Base Slab**	**34 days**	**Mon 24/10/28**	**Sat 24/11/30**	##########	**Sat 24/11/30**	**Sat 25/3/15**	**Thu 25/4/17**	**138 days**		
37	Rebar Fixing	26 days	Mon 24/10/28	Fri 24/11/22	Mon 24/10/28	Fri 24/11/22	Sat 25/3/15	Wed 25/4/9	138 days	1	35FS-36 days
38	Formwork Erection and Cast-in items	26 days	Tue 24/11/5	Sat 24/11/30	Tue 24/11/5	Sat 24/11/30	Sun 25/3/23	Thu 25/4/17	138 days	1	37FS-18 days
39	Concreting	1 day	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	Mon 25/3/31	Mon 25/3/31	138 days	0	38FS-18 days
40	**Walls**	**34 days**	**Thu 24/11/14**	**Tue 24/12/17**	**Thu 24/11/14**	**Tue 24/12/17**	**Tue 25/4/1**	**Sun 25/5/4**	**138 days**	**0**	
41	Rebar Fixing	26 days	Thu 24/11/14	Mon 24/12/9	Thu 24/11/14	Mon 24/12/9	Tue 25/4/1	Sat 25/4/26	138 days	1	39
42	Formwork Erection and Cast-in items	26 days	**Fri 24/11/22**	Tue 24/12/17	Fri 24/11/22	Tue 24/12/17	Wed 25/4/9	Sun 25/5/4	138 days	1	41FS-18 days
43	Concreting	1 day	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	Sat 24/11/30	Thu 25/4/17	Thu 25/4/17	138 days	0	42FS-18 days
44	**CH.A200~CH.A288.29 (continue)**	39 days	**Sun 24/12/1**	**Wed 25/1/8**	**Sun 24/12/1**	**Wed 25/1/8**	**Fri 25/4/18**	**Mon 25/5/26**	**138 days**		
45	Backfilling and Compaction	30 days	Sun 24/12/1	Mon 24/12/30	Sun 24/12/1	Mon 24/12/30	Fri 25/4/18	Sat 25/5/17	138 days	0	43
46	Removal of Sheetpiles	30 days	Tue 24/12/10	Wed 25/1/8	Tue 24/12/10	Wed 25/1/8	Sun 25/4/27	Mon 25/5/26	138 days	0	45FS-21 days
47	Connection to ex. Channel at Outlet	20 days	Thu 24/12/19	Tue 25/1/7	Thu 24/12/19	Tue 25/1/7	Wed 26/4/15	Mon 26/5/4	482 days	0	46FS-21 days
48	**CH.A100~CH.A200**	93 days	**Thu 24/12/19**	**Fri 25/3/21**	**Thu 24/12/19**	**Fri 25/3/21**	**Tue 25/5/6**	**Wed 25/8/6**	138 days		
49	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	30 days	Thu 24/12/19	Fri 25/1/17	Thu 24/12/19	Fri 25/1/17	Tue 25/5/6	Wed 25/6/4	138 days	1	46FS-21 days
50	Excavation and Lateral Support	30 days	Fri 24/12/27	Sat 25/1/25	Fri 24/12/27	Sat 25/1/25	Wed 25/5/14	Thu 25/6/12	138 days	1	49FS-22 days
51	**Base Slab**	39 days	**Sat 25/1/4**	**Tue 25/2/11**	**Sat 25/1/4**	**Tue 25/2/11**	**Thu 25/5/22**	**Sun 25/6/29**	138 days		
52	Rebar Fixing	30 days	Sat 25/1/4	Sun 25/2/2	Sat 25/1/4	Sun 25/2/2	Thu 25/5/22	Fri 25/6/20	138 days	1	50FS-22 days
53	Formwork Erection and Cast-in items	30 days	Mon 25/1/13	Tue 25/2/11	Mon 25/1/13	Tue 25/2/11	Sat 25/5/31	Sun 25/6/29	138 days	1	52FS-21 days
54	Concreting	1 day	Wed 25/1/22	Wed 25/1/22	Wed 25/1/22	Wed 25/1/22	Mon 25/6/9	Mon 25/6/9	138 days	0	53FS-21 days
55	**Walls**	39 days	**Thu 25/1/23**	**Sun 25/3/2**	**Thu 25/1/23**	**Sun 25/3/2**	**Tue 25/6/10**	**Fri 25/7/18**	138 days		
56	Rebar Fixing	30 days	Thu 25/1/23	Fri 25/2/21	Thu 25/1/23	Fri 25/2/21	Tue 25/6/10	Wed 25/7/9	138 days	1	54
57	Formwork Erection and Cast-in items	30 days	Sat 25/2/1	Sun 25/3/2	Sat 25/2/1	Sun 25/3/2	Thu 25/6/19	Fri 25/7/18	138 days	1	56FS-21 days
58	Concreting	1 day	Mon 25/2/10	Mon 25/2/10	Mon 25/2/10	Mon 25/2/10	Sat 25/6/28	Sat 25/6/28	138 days	0	57FS-21 days



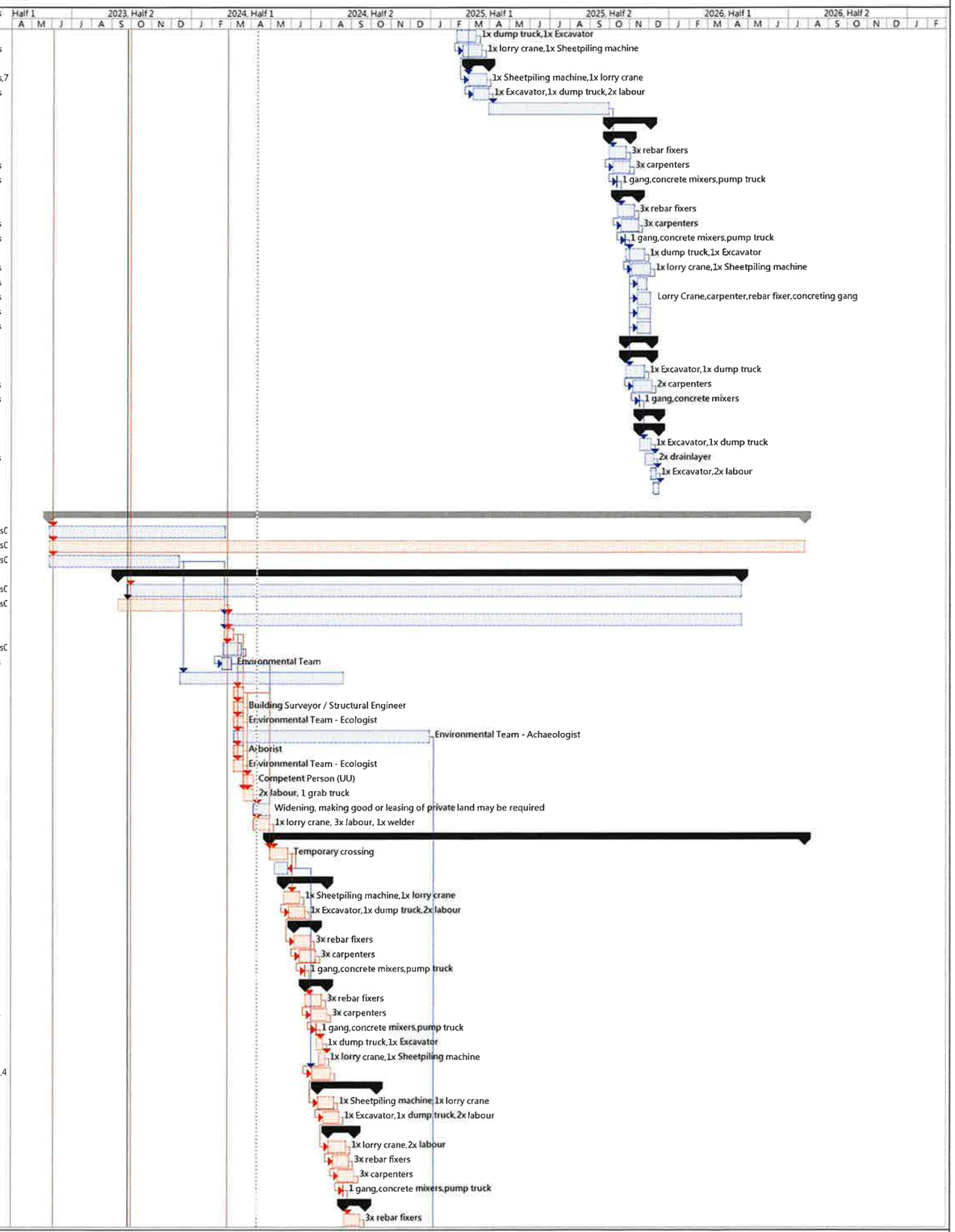
Revision.: 7.0 Date: 31 March 2024

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
59	Backfilling and Compaction	30 days	Tue 25/2/11	Wed 25/3/12	Tue 25/2/11	Wed 25/3/12	Sun 25/6/29	Mon 25/7/28	138 days	0	58
60	Removal of Sheetpiles	30 days	Thu 25/2/20	Fri 25/3/21	Thu 25/2/20	Fri 25/3/21	Tue 25/7/8	Wed 25/8/6	138 days	0	59FS-21 days
61	CH.A19.69~CH.A100	31 days	Sat 25/3/1	Mon 25/3/31	Sat 25/3/1	Mon 25/3/31	Thu 25/7/17	Sat 25/8/16	138 days	0	
62	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	28 days	Sat 25/3/1	Fri 25/3/28	Sat 25/3/1	Fri 25/3/28	Thu 25/7/17	Wed 25/8/13	138 days	1	60FS-21 days,7
63	Excavation and Lateral Support	24 days	Sat 25/3/8	Mon 25/3/31	Sat 25/3/8	Mon 25/3/31	Thu 25/7/24	Sat 25/8/16	138 days	1	62FS-21 days
64	No works for wet season	183 days	Tue 25/4/1	Tue 25/9/30	Tue 25/4/1	Tue 25/9/30	Sun 25/8/17	Sun 26/2/15	138 days	0	63
65	CH.A19.69~CH.A100 (continue)	65 days	Wed 25/10/1	Thu 25/12/4	Wed 25/10/1	Thu 25/12/4	Mon 26/2/16	Mon 26/5/4	138 days		
66	Base Slab	33 days	Wed 25/10/1	Sun 25/11/2	Wed 25/10/1	Sun 25/11/2	Mon 26/2/16	Fri 26/3/20	138 days	0	
67	Rebar Fixing	27 days	Wed 25/10/1	Mon 25/10/27	Wed 25/10/1	Mon 25/10/27	Mon 26/2/16	Sat 26/3/14	138 days	1	64
68	Formwork Erection and Cast-in items	27 days	Tue 25/10/7	Sun 25/11/2	Tue 25/10/7	Sun 25/11/2	Sun 26/2/22	Fri 26/3/20	138 days	1	67FS-21 days
69	Concreting	1 day	Mon 25/10/13	Mon 25/10/13	Mon 25/10/13	Mon 25/10/13	Sat 26/2/28	Sat 26/2/28	138 days	0	68FS-21 days
70	Walls	33 days	Tue 25/10/14	Sat 25/11/15	Tue 25/10/14	Sat 25/11/15	Sun 26/3/1	Thu 26/4/2	138 days		
71	Rebar Fixing	27 days	Tue 25/10/14	Sun 25/11/9	Tue 25/10/14	Sun 25/11/9	Sun 26/3/1	Fri 26/3/27	138 days	1	69
72	Formwork Erection and Cast-in items	27 days	Mon 25/10/20	Sat 25/11/15	Mon 25/10/20	Sat 25/11/15	Sat 26/3/7	Thu 26/4/2	138 days	1	71FS-21 days
73	Concreting	1 day	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Sun 25/10/26	Fri 26/3/13	Fri 26/3/13	138 days	0	72FS-21 days
74	Backfilling and Compaction	30 days	Mon 25/10/27	Tue 25/11/25	Mon 25/10/27	Tue 25/11/25	Fri 26/3/27	Sat 26/4/25	151 days	0	73
75	Removal of Sheetpiles	30 days	Wed 25/11/5	Thu 25/12/4	Wed 25/11/5	Thu 25/12/4	Sun 26/4/5	Mon 26/5/4	151 days	0	74FS-21 days
76	900 pipe with flap valve	15 days	Fri 25/11/14	Fri 25/11/28	Fri 25/11/14	Fri 25/11/28	Mon 26/4/20	Mon 26/5/4	157 days	0	75FS-21 days
77	Box Culvert & Pedestrian Crossing	21 days	Fri 25/11/14	Thu 25/12/4	Fri 25/11/14	Thu 25/12/4	Tue 26/4/14	Mon 26/5/4	151 days	0	75FS-21 days
78	ABWF works	21 days	Fri 25/11/14	Thu 25/12/4	Fri 25/11/14	Thu 25/12/4	Tue 26/4/14	Mon 26/5/4	151 days	0	75FS-21 days
79	Bedding works	21 days	Fri 25/11/14	Thu 25/12/4	Fri 25/11/14	Thu 25/12/4	Tue 26/4/14	Mon 26/5/4	151 days	0	75FS-21 days
80	U-Channel Works	41 days	Mon 25/10/27	Sat 25/12/6	##########	Sat 25/12/6	Sat 26/3/14	Thu 26/4/23	138 days		
81	CH.A0.00~CH.A16.40,900CU,L=16.40	41 days	Mon 25/10/27	Sat 25/12/6	##########	Sat 25/12/6	Sat 26/3/14	Thu 26/4/23	138 days		
82	Excavation and Lateral Support	30 days	Mon 25/10/27	Tue 25/11/25	Mon 25/10/27	Tue 25/11/25	Sat 26/3/14	Sun 26/4/12	138 days	1	73
83	Channel Formwork Erection	30 days	Fri 25/11/7	Sat 25/12/6	Fri 25/11/7	Sat 25/12/6	Wed 26/3/25	Thu 26/4/23	138 days	1	82FS-19 days
84	Concreting	1 day	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	Mon 25/11/17	Sat 26/4/4	Sat 26/4/4	138 days	0	83FS-20 days
85	Drain Laying Works	30 days	Tue 25/11/18	Wed 25/12/17	Tue 25/11/18	Wed 25/12/17	Sun 26/4/5	Mon 26/5/4	138 days		
86	CH.A16.40~CH.A19.69,900PC,B,L=3.30,D=1.5	30 days	Tue 25/11/18	Wed 25/12/17	Tue 25/11/18	Wed 25/12/17	Sun 26/4/5	Mon 26/5/4	138 days		
87	Excavation and Lateral Support	18 days	Tue 25/11/18	Fri 25/12/5	Tue 25/11/18	Fri 25/12/5	Sun 26/4/5	Wed 26/4/22	138 days	0	84
88	Drain Laying	14 days	Wed 25/11/26	Tue 25/12/9	Wed 25/11/26	Tue 25/12/9	Mon 26/4/13	Sun 26/4/26	138 days	0	87FS-10 days
89	Bedding and Backfilling	9 days	Fri 25/12/5	Sat 25/12/13	Fri 25/12/5	Sat 25/12/13	Wed 26/4/22	Thu 26/4/30	138 days	0	88FS-5 days
90	Reinstatement	9 days	Tue 25/12/9	Wed 25/12/17	Tue 25/12/9	Wed 25/12/17	Sun 26/4/26	Mon 26/5/4	138 days	0	89FS-5 days
100											
101	Section III	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		
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	Fri 25/10/31	Mon 26/7/27	885 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	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
5	Site Establishment	954 days	Tue 23/9/12	Wed 26/4/22	Tue 23/9/12	Wed 26/4/22	Tue 23/9/12	Mon 26/7/27	0 days		
6	Prepare and Accept Temp. Works Design and Method Statement	940 days	Tue 23/9/26	Wed 26/4/22	Tue 23/9/26	Wed 26/4/22	Sun 23/12/31	Mon 26/7/27	96 days	0	\\WingTatNasC
7	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
8	Initial Survey	790 days	Fri 24/2/23	Wed 26/4/22	Fri 24/2/23	Wed 26/4/22	Wed 24/5/29	Mon 26/7/27	96 days	0	7,4FS-1 day
10	Initial Safety & Environmental measures [A]	14 days	Fri 24/2/23	Thu 24/3/7	Fri 24/2/23	Thu 24/3/7	Fri 24/2/23	Thu 24/3/7	0 days	0	7,4FS-1 day
12	EIAO Commencement of Construction [A]	28 days	Wed 24/2/21	Tue 24/3/19	Wed 24/2/21	Tue 24/3/19	Fri 24/4/19	Thu 24/5/16	58 days	0	\\WingTatNasC
14	Environmental Baseline Monitoring [A]	15 days	Mon 24/2/19	Mon 24/3/4	Mon 24/2/19	Mon 24/3/4	Wed 24/4/17	Wed 24/5/1	58 days	0	12FS-30 days
15	Subcontracting of works	250 days	Sat 23/12/16	Wed 24/8/21	Sat 23/12/16	Wed 24/8/21	Thu 25/11/20	Mon 26/7/27	705 days	0	4
16	Setup of instrumentation and monitoring [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	0 days	0	10
17	Condition Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	0 days	0	10
18	Freshwater Crab Translocation Plan [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	0 days	0	10
19	Archaeological Survey	300 days	Fri 24/3/8	Wed 25/1/1	Fri 24/3/8	Wed 25/1/1	Tue 25/4/29	Sun 26/2/22	417 days	0	10
20	Tree Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	0 days	0	10
21	Vegetation Survey [A]	15 days	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	Fri 24/3/8	Fri 24/3/22	0 days	0	10
22	UU detection	15 days	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	0 days	0	17,18
23	Site Clearance	15 days	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	Sat 24/3/23	Sat 24/4/6	0 days	0	20,16,10,21
24	Establish access(es) to channels	25 days	Sun 24/4/7	Wed 24/5/1	Sun 24/4/7	Wed 24/5/1	Fri 26/7/3	Mon 26/7/27	817 days	0	23,22
25	Guarding / Barrier / Hoarding	25 days	Sun 24/4/7	Wed 24/5/1	Sun 24/4/7	Wed 24/5/1	Sun 24/4/7	Wed 24/5/1	0 days	0	23,22
26	Drainage Channels Works	817 days	Thu 24/5/2	Mon 26/7/27	Thu 24/5/2	Mon 26/7/27	Thu 24/5/2	Mon 26/7/27	0 days		
27	Pedestrian & Vehicular Crossing no. 1	28 days	Thu 24/5/2	Wed 24/5/29	Thu 24/5/2	Wed 24/5/29	Thu 24/5/2	Wed 24/5/29	0 days	4	25,16,14
28	CLP Cable Trough	21 days	Thu 24/5/9	Wed 24/5/29	Thu 24/5/9	Wed 24/5/29	Thu 24/7/4	Wed 24/7/24	56 days	3	27FF
29	LFT05 CH.A163.00~CH.A173.50	66 days	Thu 24/5/23	Sat 24/7/27	Thu 24/5/23	Sat 24/7/27	Thu 24/5/23	Sat 24/7/27	0 days		
30	Temp. Drainage Diversion / Sheetpiling	25 days	Thu 24/5/23	Sun 24/6/16	Thu 24/5/23	Sun 24/6/16	Thu 24/5/23	Sun 24/6/16	0 days	0	27FS-7 days
31	Excavation and Lateral Support	25 days	Fri 24/5/31	Mon 24/6/24	Fri 24/5/31	Mon 24/6/24	Fri 24/5/31	Mon 24/6/24	0 days	0	30FS-17 days
32	Ground and Edge Beams	33 days	Sat 24/6/8	Wed 24/7/10	Sat 24/6/8	Wed 24/7/10	Sat 24/6/8	Wed 24/7/10	0 days		
33	Rebar Fixing	25 days	Sat 24/6/8	Tue 24/7/2	Sat 24/6/8	Tue 24/7/2	Sat 24/6/8	Tue 24/7/2	0 days	0	31FS-17 days
34	Formwork Erection and Cast-in items	25 days	Sun 24/6/16	Wed 24/7/10	Sun 24/6/16	Wed 24/7/10	Sun 24/6/16	Wed 24/7/10	0 days	0	33FS-17 days
35	Concreting	1 day	Mon 24/6/24	Mon 24/6/24	Mon 24/6/24	Mon 24/6/24	Mon 24/6/24	Mon 24/6/24	0 days	0	34FS-17 days
36	Walls	33 days	Tue 24/6/25	Sat 24/7/27	Tue 24/6/25	Sat 24/7/27	Tue 24/6/25	Sat 24/7/27	0 days		
37	Rebar Fixing	25 days	Tue 24/6/25	Fri 24/7/19	Tue 24/6/25	Fri 24/7/19	Tue 24/6/25	Fri 24/7/19	0 days	0	35
38	Formwork Erection and Cast-in items	25 days	Wed 24/7/3	Sat 24/7/27	Wed 24/7/3	Sat 24/7/27	Wed 24/7/3	Sat 24/7/27	0 days	0	37FS-17 days
39	Concreting	1 day	Thu 24/7/11	Thu 24/7/11	Thu 24/7/11	Thu 24/7/11	Thu 24/7/11	Thu 24/7/11	0 days	0	38FS-17 days
40	Backfilling and Compaction	10 days	Fri 24/7/12	Sun 24/7/21	Fri 24/7/12	Sun 24/7/21	Fri 24/7/12	Sun 24/7/21	0 days	0	39
41	Removal of Sheetpiles	10 days	Mon 24/7/15	Wed 24/7/24	Mon 24/7/15	Wed 24/7/24	Mon 24/7/15	Wed 24/7/24	0 days	0	40FS-7 days
42	Demolish & relocate retaining wall YLL795/A/4-5	30 days	Thu 24/7/4	Fri 24/8/2	Thu 24/7/4	Fri 24/8/2	Thu 24/7/4	Fri 24/8/2	0 days	0	28FS-21 days,4
43	LFT06 CH.A173.5~CH.A227.75 (PVC1)	90 days	Sun 24/7/14	Fri 24/10/11	Sun 24/7/14	Fri 24/10/11	Sun 24/7/14	Fri 24/10/11	0 days		
44	Temp. Drainage Diversion / Sheetpiling	25 days	Sun 24/7/14	Wed 24/8/7	Sun 24/7/14	Wed 24/8/7	Sun 24/7/14	Wed 24/8/7	0 days	1	42FS-20 days
45	Excavation and Lateral Support	25 days	Mon 24/7/22	Thu 24/8/15	Mon 24/7/22	Thu 24/8/15	Mon 24/7/22	Thu 24/8/15	0 days	1	44FS-17 days
46	Ground and Edge Beams	40 days	Tue 24/7/30	Sat 24/9/7	Tue 24/7/30	Sat 24/9/7	Tue 24/7/30	Sat 24/9/7	0 days		
47	Install precast portion (ground beam)	28 days	Tue 24/7/30	Mon 24/8/26	Tue 24/7/30	Mon 24/8/26	Tue 24/7/30	Mon 24/8/26	0 days	0	45FS-17 days
48	Rebar Fixing	25 days	Tue 24/8/6	Fri 24/8/30	Tue 24/8/6	Fri 24/8/30	Tue 24/8/6	Fri 24/8/30	0 days	1	47FS-21 days
49	Formwork Erection and Cast-in items	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	1	48FS-17 days
50	Concreting	1 day	Thu 24/8/22	Thu 24/8/22	Thu 24/8/22	Thu 24/8/22	Thu 24/8/22	Thu 24/8/22	0 days	0	49FS-17 days
51	Walls	33 days	Fri 24/8/23	Tue 24/9/24	Fri 24/8/23	Tue 24/9/24	Fri 24/8/23	Tue 24/9/24	0 days		
52	Rebar Fixing	25 days	Fri 24/8/23	Mon 24/9/16	Fri 24/8/23	Mon 24/9/16	Fri 24/8/23	Mon 24/9/16	0 days	1	50



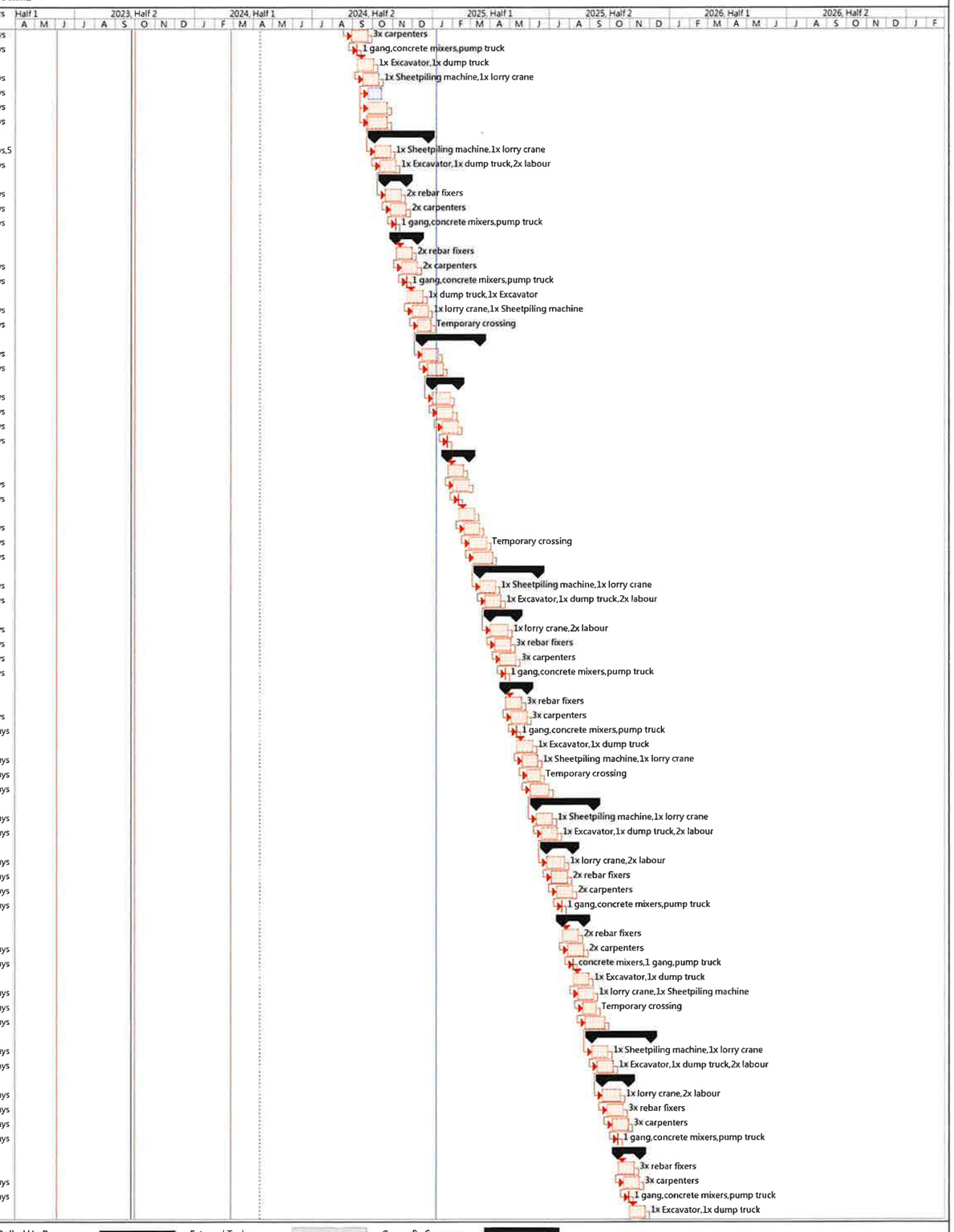
Revision.: 7.0 Date: 31 March 2024

´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
53	Formwork Erection and Cast-in items	25 days	Sat 24/8/31	Tue 24/9/24	Sat 24/8/31	Tue 24/9/24	Sat 24/8/31	Tue 24/9/24	0 days	1	52FS-17 days
54	Concreting	1 day	Sun 24/9/8	Sun 24/9/8	Sun 24/9/8	Sun 24/9/8	Sun 24/9/8	Sun 24/9/8	0 days	0	53FS-17 days
55	Backfilling and Compaction	25 days	Mon 24/9/9	Thu 24/10/3	Mon 24/9/9	Thu 24/10/3	Mon 24/9/9	Thu 24/10/3	0 days	0	54
56	Removal of Sheetpiles	25 days	Tue 24/9/17	Fri 24/10/11	Tue 24/9/17	Fri 24/10/11	Tue 24/9/17	Fri 24/10/11	0 days	0	55FS-17 days
57	Animal Escape Ramps	21 days	Wed 24/9/25	Tue 24/10/15	Wed 24/9/25	Tue 24/10/15	Tue 26/7/7	Mon 26/7/27	650 days	0	56FS-17 days
58	Demolish & relocate retaining wall YLL796/A/S-6	30 days	Wed 24/9/25	Thu 24/10/24	Wed 24/9/25	Thu 24/10/24	Wed 24/9/25	Thu 24/10/24	0 days	0	56FS-17 days
59	Demolish & relocate AFCD Weir & pedestrian crossing	30 days	Wed 24/9/25	Thu 24/10/24	Wed 24/9/25	Thu 24/10/24	Wed 24/9/25	Thu 24/10/24	0 days	0	56FS-17 days
60	**LFT02 CH.A100.00~CH.A163.00**	**83 days**	**Sat 24/10/5**	**Thu 24/12/26**	**Sat 24/10/5**	**Thu 24/12/26**	**Sat 24/10/5**	**Thu 24/12/26**	**0 days**		
61	Temp. Drainage Diversion / Sheetpiling	25 days	Sat 24/10/5	Tue 24/10/29	Sat 24/10/5	Tue 24/10/29	Sat 24/10/5	Tue 24/10/29	0 days	0	58FS-20 days,5
62	Excavation and Lateral Support	25 days	Sun 24/10/13	Wed 24/11/6	Sun 24/10/13	Wed 24/11/6	Sun 24/10/13	Wed 24/11/6	0 days	0	61FS-17 days
63	**Ground and Edge Beams**	**33 days**	**Mon 24/10/21**	**Fri 24/11/22**	**##########**	**Fri 24/11/22**	**##########**	**Fri 24/11/22**	**0 days**		
64	Rebar Fixing	25 days	Mon 24/10/21	Thu 24/11/14	Mon 24/10/21	Thu 24/11/14	Mon 24/10/21	Thu 24/11/14	0 days	0	62FS-17 days
65	Formwork Erection and Cast-in items	25 days	Tue 24/10/29	Fri 24/11/22	Tue 24/10/29	Fri 24/11/22	Tue 24/10/29	Fri 24/11/22	0 days	0	64FS-17 days
66	Concreting	1 day	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	Wed 24/11/6	0 days	0	65FS-17 days
67	**Walls**	**33 days**	**Thu 24/11/7**	**Mon 24/12/9**	**Thu 24/11/7**	**Mon 24/12/9**	**Thu 24/11/7**	**Mon 24/12/9**	**0 days**		
68	Rebar Fixing	25 days	Thu 24/11/7	Sun 24/12/1	Thu 24/11/7	Sun 24/12/1	Thu 24/11/7	Sun 24/12/1	0 days	0	66
69	Formwork Erection and Cast-in items	25 days	Fri 24/11/15	Mon 24/12/9	Fri 24/11/15	Mon 24/12/9	Fri 24/11/15	Mon 24/12/9	0 days	0	68FS-17 days
70	Concreting	1 day	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	Sat 24/11/23	0 days	0	69FS-17 days
71	Backfilling and Compaction	25 days	Sun 24/11/24	Wed 24/12/18	Sun 24/11/24	Wed 24/12/18	Sun 24/11/24	Wed 24/12/18	0 days	0	70
72	Removal of Sheetpiles	25 days	Mon 24/12/2	Thu 24/12/26	Mon 24/12/2	Thu 24/12/26	Mon 24/12/2	Thu 24/12/26	0 days	0	71FS-17 days
73	Pedestrian Crossing no. 2	21 days	Tue 24/12/10	Mon 24/12/30	Tue 24/12/10	Mon 24/12/30	Tue 24/12/10	Mon 24/12/30	0 days	3	72FS-17 days
74	**LFT07 CH.A227.5~CH.A300.75**	**90 days**	**Tue 24/12/17**	**Sun 25/3/16**	**Tue 24/12/17**	**Sun 25/3/16**	**Tue 24/12/17**	**Sun 25/3/16**	**0 days**		
75	Temp. Drainage Diversion / Sheetpiling	25 days	Tue 24/12/17	Fri 25/1/10	Tue 24/12/17	Fri 25/1/10	Tue 24/12/17	Fri 25/1/10	0 days	0	73FS-14 days
76	Excavation and Lateral Support	25 days	Wed 24/12/25	Sat 25/1/18	Wed 24/12/25	Sat 25/1/18	Wed 24/12/25	Sat 25/1/18	0 days	0	75FS-17 days
77	**Ground and Edge Beams**	**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**		
78	Install precast portion (ground beam)	28 days	Thu 25/1/2	Wed 25/1/29	Thu 25/1/2	Wed 25/1/29	Thu 25/1/2	Wed 25/1/29	0 days	0	76FS-17 days
79	Rebar Fixing	25 days	Thu 25/1/9	Sun 25/2/2	Thu 25/1/9	Sun 25/2/2	Thu 25/1/9	Sun 25/2/2	0 days	0	78FS-21 days
80	Formwork Erection and Cast-in items	25 days	Fri 25/1/17	Mon 25/2/10	Fri 25/1/17	Mon 25/2/10	Fri 25/1/17	Mon 25/2/10	0 days	0	79FS-17 days
81	Concreting	1 day	Sat 25/1/25	Sat 25/1/25	Sat 25/1/25	Sat 25/1/25	Sat 25/1/25	Sat 25/1/25	0 days	0	80FS-17 days
82	**Walls**	**33 days**	**Sun 25/1/26**	**Thu 25/2/27**	**Sun 25/1/26**	**Thu 25/2/27**	**Sun 25/1/26**	**Thu 25/2/27**	**0 days**		
83	Rebar Fixing	25 days	Sun 25/1/26	Wed 25/2/19	Sun 25/1/26	Wed 25/2/19	Sun 25/1/26	Wed 25/2/19	0 days	0	81
84	Formwork Erection and Cast-in items	25 days	Mon 25/2/3	Thu 25/2/27	Mon 25/2/3	Thu 25/2/27	Mon 25/2/3	Thu 25/2/27	0 days	0	83FS-17 days
85	Concreting	1 day	Tue 25/2/11	Tue 25/2/11	Tue 25/2/11	Tue 25/2/11	Tue 25/2/11	Tue 25/2/11	0 days	0	84FS-17 days
86	Backfilling and Compaction	25 days	Wed 25/2/12	Sat 25/3/8	Wed 25/2/12	Sat 25/3/8	Wed 25/2/12	Sat 25/3/8	0 days	0	85
87	Removal of Sheetpiles	25 days	Thu 25/2/20	Sun 25/3/16	Thu 25/2/20	Sun 25/3/16	Thu 25/2/20	Sun 25/3/16	0 days	0	86FS-17 days
88	Pedestrian & Vehicular Crossing no. 2	28 days	Fri 25/2/28	Thu 25/3/27	Fri 25/2/28	Thu 25/3/27	Fri 25/2/28	Thu 25/3/27	0 days	4	87FS-17 days
89	Demolish & relocate retaining wall YLL796/A/14-15	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	88FS-21 days
90	**LFT08 CH.A300.75~CH.A391.0**	**90 days**	**Mon 25/3/17**	**Sat 25/6/14**	**Mon 25/3/17**	**Sat 25/6/14**	**Mon 25/3/17**	**Sat 25/6/14**	**0 days**		
91	Temp. Drainage Diversion / Sheetpiling	25 days	Mon 25/3/17	Thu 25/4/10	Mon 25/3/17	Thu 25/4/10	Mon 25/3/17	Thu 25/4/10	0 days	1	89FS-20 days
92	Excavation and Lateral Support	25 days	Tue 25/3/25	Fri 25/4/18	Tue 25/3/25	Fri 25/4/18	Tue 25/3/25	Fri 25/4/18	0 days	1	91FS-17 days
93	**Ground and Edge Beams**	**40 days**	**Wed 25/4/2**	**Sun 25/5/11**	**Wed 25/4/2**	**Sun 25/5/11**	**Wed 25/4/2**	**Sun 25/5/11**	**0 days**		
94	Install precast portion (ground beam)	28 days	Wed 25/4/2	Tue 25/4/29	Wed 25/4/2	Tue 25/4/29	Wed 25/4/2	Tue 25/4/29	0 days	0	92FS-17 days
95	Rebar Fixing	25 days	Wed 25/4/9	Sat 25/5/3	Wed 25/4/9	Sat 25/5/3	Wed 25/4/9	Sat 25/5/3	0 days	1	94FS-21 days
96	Formwork Erection and Cast-in items	25 days	Thu 25/4/17	Sun 25/5/11	Thu 25/4/17	Sun 25/5/11	Thu 25/4/17	Sun 25/5/11	0 days	1	95FS-17 days
97	Concreting	1 day	Fri 25/4/25	Fri 25/4/25	Fri 25/4/25	Fri 25/4/25	Fri 25/4/25	Fri 25/4/25	0 days	0	96FS-17 days
98	**Walls**	**33 days**	**Sat 25/4/26**	**Wed 25/5/28**	**Sat 25/4/26**	**Wed 25/5/28**	**Sat 25/4/26**	**Wed 25/5/28**	**0 days**		
99	Rebar Fixing	25 days	Sat 25/4/26	Tue 25/5/20	Sat 25/4/26	Tue 25/5/20	Sat 25/4/26	Tue 25/5/20	0 days	1	97
100	Formwork Erection and Cast-in items	25 days	Sun 25/5/4	Wed 25/5/28	Sun 25/5/4	Wed 25/5/28	Sun 25/5/4	Wed 25/5/28	0 days	1	99FS-17 days
101	Concreting	1 day	Mon 25/5/12	Mon 25/5/12	Mon 25/5/12	Mon 25/5/12	Mon 25/5/12	Mon 25/5/12	0 days	0	100FS-17 days
102	Backfilling and Compaction	25 days	Tue 25/5/13	Fri 25/6/6	Tue 25/5/13	Fri 25/6/6	Tue 25/5/13	Fri 25/6/6	0 days	0	101
103	Removal of Sheetpiles	25 days	Wed 25/5/21	Sat 25/6/14	Wed 25/5/21	Sat 25/6/14	Wed 25/5/21	Sat 25/6/14	0 days	0	102FS-17 days
104	Pedestrian Crossing no. 4	21 days	Thu 25/5/29	Wed 25/6/18	Thu 25/5/29	Wed 25/6/18	Thu 25/5/29	Wed 25/6/18	0 days	3	103FS-17 days
105	Demolition of existing crossing	30 days	Mon 25/6/2	Tue 25/7/1	Mon 25/6/2	Tue 25/7/1	Mon 25/6/2	Tue 25/7/1	0 days	0	104FS-17 days
106	**LFT01 CH.A0.00~CH.A100.00 (PC1~PC2)**	**88 days**	**Thu 25/6/12**	**Sun 25/9/7**	**Thu 25/6/12**	**Sun 25/9/7**	**Thu 25/6/12**	**Sun 25/9/7**	**0 days**		
107	Temp. Drainage Diversion / Sheetpiling	25 days	Thu 25/6/12	Sun 25/7/6	Thu 25/6/12	Sun 25/7/6	Thu 25/6/12	Sun 25/7/6	0 days	1	105FS-20 days
108	Excavation and Lateral Support	25 days	Fri 25/6/20	Mon 25/7/14	Fri 25/6/20	Mon 25/7/14	Fri 25/6/20	Mon 25/7/14	0 days	1	107FS-17 days
109	**Ground and Edge Beams**	**40 days**	**Sat 25/6/28**	**Wed 25/8/6**	**Sat 25/6/28**	**Wed 25/8/6**	**Sat 25/6/28**	**Wed 25/8/6**	**0 days**		
110	Install precast portion (ground beam)	28 days	Sat 25/6/28	Fri 25/7/25	Sat 25/6/28	Fri 25/7/25	Sat 25/6/28	Fri 25/7/25	0 days	0	108FS-17 days
111	Rebar Fixing	25 days	Sat 25/7/5	Tue 25/7/29	Sat 25/7/5	Tue 25/7/29	Sat 25/7/5	Tue 25/7/29	0 days	1	110FS-21 days
112	Formwork Erection and Cast-in items	25 days	Sun 25/7/13	Wed 25/8/6	Sun 25/7/13	Wed 25/8/6	Sun 25/7/13	Wed 25/8/6	0 days	1	111FS-17 days
113	Concreting	1 day	Mon 25/7/21	Mon 25/7/21	Mon 25/7/21	Mon 25/7/21	Mon 25/7/21	Mon 25/7/21	0 days	0	112FS-17 days
114	**Walls**	**33 days**	**Tue 25/7/22**	**Sat 25/8/23**	**Tue 25/7/22**	**Sat 25/8/23**	**Tue 25/7/22**	**Sat 25/8/23**	**0 days**		
115	Rebar Fixing	25 days	Tue 25/7/22	Fri 25/8/15	Tue 25/7/22	Fri 25/8/15	Tue 25/7/22	Fri 25/8/15	0 days	1	113
116	Formwork Erection and Cast-in items	25 days	Wed 25/7/30	Sat 25/8/23	Wed 25/7/30	Sat 25/8/23	Wed 25/7/30	Sat 25/8/23	0 days	1	115FS-17 days
117	Concreting	1 day	Thu 25/8/7	Thu 25/8/7	Thu 25/8/7	Thu 25/8/7	Thu 25/8/7	Thu 25/8/7	0 days	0	116FS-17 days
118	Backfilling and Compaction	24 days	Fri 25/8/8	Sun 25/8/31	Fri 25/8/8	Sun 25/8/31	Fri 25/8/8	Sun 25/8/31	0 days	0	117
119	Removal of Sheetpiles	24 days	Fri 25/8/15	Sun 25/9/7	Fri 25/8/15	Sun 25/9/7	Fri 25/8/15	Sun 25/9/7	0 days	0	118FS-17 days
120	Pedestrian Crossing no. 1	21 days	Fri 25/8/22	Thu 25/9/11	Fri 25/8/22	Thu 25/9/11	Fri 25/8/22	Thu 25/9/11	0 days	0	119FS-17 days
121	Demolish & relocate retaining wall YLL796/A/20-22	30 days	Tue 25/8/26	Wed 25/9/24	Tue 25/8/26	Wed 25/9/24	Tue 25/8/26	Wed 25/9/24	0 days	0	120FS-17 days
122	**LFT09 CH.A391.00~CH.A464.00**	**90 days**	**Fri 25/9/5**	**Wed 25/12/3**	**Fri 25/9/5**	**Wed 25/12/3**	**Fri 25/9/5**	**Wed 25/12/3**	**0 days**		
123	Temp. Drainage Diversion / Sheetpiling	25 days	Fri 25/9/5	Mon 25/9/29	Fri 25/9/5	Mon 25/9/29	Fri 25/9/5	Mon 25/9/29	0 days	1	121FS-20 days
124	Excavation and Lateral Support	25 days	Sat 25/9/13	Tue 25/10/7	Sat 25/9/13	Tue 25/10/7	Sat 25/9/13	Tue 25/10/7	0 days	1	123FS-17 days
125	**Ground and Edge Beams**	**40 days**	**Sun 25/9/21**	**Thu 25/10/30**	**Sun 25/9/21**	**Thu 25/10/30**	**Sun 25/9/21**	**Thu 25/10/30**	**0 days**		
126	Install precast portion (ground beam)	28 days	Sun 25/9/21	Sat 25/10/18	Sun 25/9/21	Sat 25/10/18	Sun 25/9/21	Sat 25/10/18	0 days	0	124FS-17 days
127	Rebar Fixing	25 days	Sun 25/9/28	Wed 25/10/22	Sun 25/9/28	Wed 25/10/22	Sun 25/9/28	Wed 25/10/22	0 days	1	126FS-21 days
128	Formwork Erection and Cast-in items	25 days	Mon 25/10/6	Thu 25/10/30	Mon 25/10/6	Thu 25/10/30	Mon 25/10/6	Thu 25/10/30	0 days	1	127FS-17 days
129	Concreting	1 day	Tue 25/10/14	Tue 25/10/14	Tue 25/10/14	Tue 25/10/14	Tue 25/10/14	Tue 25/10/14	0 days	0	128FS-17 days
130	**Walls**	**33 days**	**Wed 25/10/15**	**Sun 25/11/16**	**Wed 25/10/15**	**Sun 25/11/16**	**Wed 25/10/15**	**Sun 25/11/16**	**0 days**		
131	Rebar Fixing	25 days	Wed 25/10/15	Sat 25/11/8	Wed 25/10/15	Sat 25/11/8	Wed 25/10/15	Sat 25/11/8	0 days	1	129
132	Formwork Erection and Cast-in items	25 days	Thu 25/10/23	Sun 25/11/16	Thu 25/10/23	Sun 25/11/16	Thu 25/10/23	Sun 25/11/16	0 days	1	131FS-17 days
133	Concreting	1 day	Fri 25/10/31	Fri 25/10/31	Fri 25/10/31	Fri 25/10/31	Fri 25/10/31	Fri 25/10/31	0 days	0	132FS-17 days
134	Backfilling and Compaction	25 days	Sat 25/11/1	Tue 25/11/25	Sat 25/11/1	Tue 25/11/25	Sat 25/11/1	Tue 25/11/25	0 days	0	133



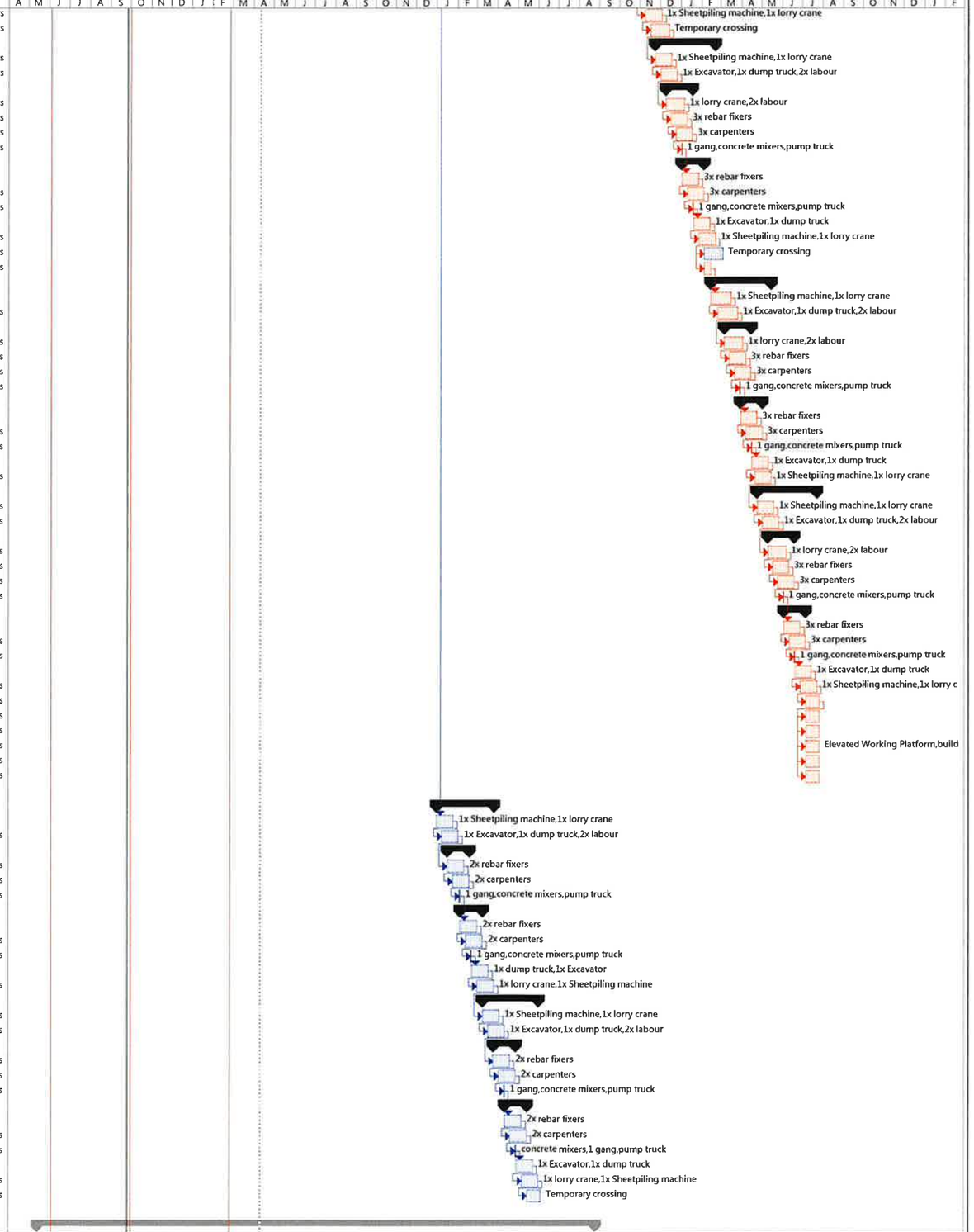
Revision.: 7.0 Date: 31 March 2024

´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
135	Removal of Sheetpiles	25 days	Sun 25/11/9	Wed 25/12/3	Sun 25/11/9	Wed 25/12/3	Sun 25/11/9	Wed 25/12/3	0 days	0	134FS-17 days
136	Pedestrian & Vehicular Crossing no. 3	28 days	Mon 25/11/17	Sun 25/12/14	Mon 25/11/17	Sun 25/12/14	Mon 25/11/17	Sun 25/12/14	0 days	4	135FS-17 days
137	**LFT10 CH.A464.00~CH.A554.00**	**90 days**	**Mon 25/11/24**	**Sat 26/2/21**	##########	**Sat 26/2/21**	##########	**Sat 26/2/21**	**0 days**		
138	Temp. Drainage Diversion / Sheetpiling	25 days	Mon 25/11/24	Thu 25/12/18	Mon 25/11/24	Thu 25/12/18	Mon 25/11/24	Thu 25/12/18	0 days	1	136FS-21 days
139	Excavation and Lateral Support	25 days	Tue 25/12/2	Fri 25/12/26	Tue 25/12/2	Fri 25/12/26	Tue 25/12/2	Fri 25/12/26	0 days	1	138FS-17 days
140	**Ground and Edge Beams**	**40 days**	**Wed 25/12/10**	**Sun 26/1/18**	**Wed 25/12/10**	**Sun 26/1/18**	**Wed 25/12/10**	**Sun 26/1/18**	**0 days**		
141	Install precast portion (ground beam)	28 days	Wed 25/12/10	Tue 26/1/6	Wed 25/12/10	Tue 26/1/6	Wed 25/12/10	Tue 26/1/6	0 days	0	139FS-17 days
142	Rebar Fixing	25 days	Wed 25/12/17	Sat 26/1/10	Wed 25/12/17	Sat 26/1/10	Wed 25/12/17	Sat 26/1/10	0 days	1	141FS-21 days
143	Formwork Erection and Cast-in items	25 days	Thu 25/12/25	Sun 26/1/18	Thu 25/12/25	Sun 26/1/18	Thu 25/12/25	Sun 26/1/18	0 days	1	142FS-17 days
144	Concreting	1 day	Fri 26/1/2	Fri 26/1/2	Fri 26/1/2	Fri 26/1/2	Fri 26/1/2	Fri 26/1/2	0 days	0	143FS-17 days
145	**Walls**	**33 days**	**Sat 26/1/3**	**Wed 26/2/4**	**Sat 26/1/3**	**Wed 26/2/4**	**Sat 26/1/3**	**Wed 26/2/4**	**0 days**		
146	Rebar Fixing	25 days	Sat 26/1/3	Tue 26/1/27	Sat 26/1/3	Tue 26/1/27	Sat 26/1/3	Tue 26/1/27	0 days	1	144
147	Formwork Erection and Cast-in items	25 days	Sun 26/1/11	Wed 26/2/4	Sun 26/1/11	Wed 26/2/4	Sun 26/1/11	Wed 26/2/4	0 days	1	146FS-17 days
148	Concreting	1 day	Mon 26/1/19	Mon 26/1/19	Mon 26/1/19	Mon 26/1/19	Mon 26/1/19	Mon 26/1/19	0 days	0	147FS-17 days
149	Backfilling and Compaction	25 days	Tue 26/1/20	Fri 26/2/13	Tue 26/1/20	Fri 26/2/13	Tue 26/1/20	Fri 26/2/13	0 days	0	148
150	Removal of Sheetpiles	25 days	Wed 26/1/28	Sat 26/2/21	Wed 26/1/28	Sat 26/2/21	Wed 26/1/28	Sat 26/2/21	0 days	0	149FS-17 days
151	Pedestrian & Vehicular Crossing no. 4	28 days	Thu 26/2/5	Wed 26/3/4	Thu 26/2/5	Wed 26/3/4	Tue 26/6/30	Mon 26/7/27	145 days	4	150FS-17 days
152	Protection to ex. Dongjiang Water Main	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	150FS-17 days
153	**LFT11 CH.A554.00~CH.A700.00**	**90 days**	**Sun 26/2/15**	**Fri 26/5/15**	**Sun 26/2/15**	**Fri 26/5/15**	**Sun 26/2/15**	**Fri 26/5/15**	**0 days**		
154	Temp. Drainage Diversion / Sheetpiling	30 days	Sun 26/2/15	Mon 26/3/16	Sun 26/2/15	Mon 26/3/16	Sun 26/2/15	Mon 26/3/16	0 days	1	152
155	Excavation and Lateral Support	30 days	Wed 26/2/25	Thu 26/3/26	Wed 26/2/25	Thu 26/3/26	Wed 26/2/25	Thu 26/3/26	0 days	1	154FS-20 days
156	**Ground and Edge Beams**	**40 days**	**Sat 26/3/7**	**Wed 26/4/15**	**Sat 26/3/7**	**Wed 26/4/15**	**Sat 26/3/7**	**Wed 26/4/15**	**0 days**		
157	Install precast portion (ground beam)	28 days	Sat 26/3/7	Fri 26/4/3	Sat 26/3/7	Fri 26/4/3	Sat 26/3/7	Fri 26/4/3	0 days	0	155FS-20 days
158	Rebar Fixing	25 days	Sat 26/3/14	Tue 26/4/7	Sat 26/3/14	Tue 26/4/7	Sat 26/3/14	Tue 26/4/7	0 days	1	157FS-21 days
159	Formwork Erection and Cast-in items	25 days	Sun 26/3/22	Wed 26/4/15	Sun 26/3/22	Wed 26/4/15	Sun 26/3/22	Wed 26/4/15	0 days	1	158FS-17 days
160	Concreting	1 day	Mon 26/3/30	Mon 26/3/30	Mon 26/3/30	Mon 26/3/30	Mon 26/3/30	Mon 26/3/30	0 days	0	159FS-17 days
161	**Walls**	**33 days**	**Tue 26/3/31**	**Sat 26/5/2**	**Tue 26/3/31**	**Sat 26/5/2**	**Tue 26/3/31**	**Sat 26/5/2**	**0 days**		
162	Rebar Fixing	25 days	Tue 26/3/31	Fri 26/4/24	Tue 26/3/31	Fri 26/4/24	Tue 26/3/31	Fri 26/4/24	0 days	1	160
163	Formwork Erection and Cast-in items	25 days	Wed 26/4/8	Sat 26/5/2	Wed 26/4/8	Sat 26/5/2	Wed 26/4/8	Sat 26/5/2	0 days	1	162FS-17 days
164	Concreting	1 day	Thu 26/4/16	Thu 26/4/16	Thu 26/4/16	Thu 26/4/16	Thu 26/4/16	Thu 26/4/16	0 days	0	163FS-17 days
165	Backfilling and Compaction	25 days	Fri 26/4/17	Mon 26/5/11	Fri 26/4/17	Mon 26/5/11	Fri 26/4/17	Mon 26/5/11	0 days	0	164
166	Removal of Sheetpiles	25 days	Tue 26/4/21	Fri 26/5/15	Tue 26/4/21	Fri 26/5/15	Tue 26/4/21	Fri 26/5/15	0 days	0	165FS-21 days
167	**LFT12 CH.A700.00~CH.A818.86**	**90 days**	**Sat 26/4/25**	**Thu 26/7/23**	**Sat 26/4/25**	**Thu 26/7/23**	**Sat 26/4/25**	**Thu 26/7/23**	**0 days**		
168	Temp. Drainage Diversion / Sheetpiling	25 days	Sat 26/4/25	Tue 26/5/19	Sat 26/4/25	Tue 26/5/19	Sat 26/4/25	Tue 26/5/19	0 days	1	166FS-21 days
169	Excavation and Lateral Support	25 days	Sun 26/5/3	Wed 26/5/27	Sun 26/5/3	Wed 26/5/27	Sun 26/5/3	Wed 26/5/27	0 days	1	168FS-17 days
170	**Ground and Edge Beams**	**40 days**	**Mon 26/5/11**	**Fri 26/6/19**	**Mon 26/5/11**	**Fri 26/6/19**	**Mon 26/5/11**	**Fri 26/6/19**	**0 days**		
171	Install precast portion (ground beam)	28 days	Mon 26/5/11	Sun 26/6/7	Mon 26/5/11	Sun 26/6/7	Mon 26/5/11	Sun 26/6/7	0 days	0	169FS-17 days
172	Rebar Fixing	25 days	Mon 26/5/18	Thu 26/6/11	Mon 26/5/18	Thu 26/6/11	Mon 26/5/18	Thu 26/6/11	0 days	1	171FS-21 days
173	Formwork Erection and Cast-in items	25 days	Tue 26/5/26	Fri 26/6/19	Tue 26/5/26	Fri 26/6/19	Tue 26/5/26	Fri 26/6/19	0 days	1	172FS-17 days
174	Concreting	1 day	Wed 26/6/3	Wed 26/6/3	Wed 26/6/3	Wed 26/6/3	Wed 26/6/3	Wed 26/6/3	0 days	0	173FS-17 days
175	**Walls**	**33 days**	**Thu 26/6/4**	**Mon 26/7/6**	**Thu 26/6/4**	**Mon 26/7/6**	**Thu 26/6/4**	**Mon 26/7/6**	**0 days**		
176	Rebar Fixing	25 days	Thu 26/6/4	Sun 26/6/28	Thu 26/6/4	Sun 26/6/28	Thu 26/6/4	Sun 26/6/28	0 days	1	174
177	Formwork Erection and Cast-in items	25 days	Fri 26/6/12	Mon 26/7/6	Fri 26/6/12	Mon 26/7/6	Fri 26/6/12	Mon 26/7/6	0 days	1	176FS-17 days
178	Concreting	1 day	Sat 26/6/20	Sat 26/6/20	Sat 26/6/20	Sat 26/6/20	Sat 26/6/20	Sat 26/6/20	0 days	0	177FS-17 days
179	Backfilling and Compaction	25 days	Sun 26/6/21	Wed 26/7/15	Sun 26/6/21	Wed 26/7/15	Sun 26/6/21	Wed 26/7/15	0 days	0	178
180	Removal of Sheetpiles	25 days	Mon 26/6/29	Thu 26/7/23	Mon 26/6/29	Thu 26/7/23	Mon 26/6/29	Thu 26/7/23	0 days	0	179FS-17 days
181	Relocate Septic Tank & Soakaway Pit	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	4	180FS-17 days
182	Animal Escape Ramp	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	0	181FS-21 days
183	U-channels	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	0	181FS-21 days
184	Facing stone	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	0	181FS-21 days
185	ABWF works	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	0	181FS-21 days
186	Bedding works	21 days	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	Tue 26/7/7	Mon 26/7/27	0 days	0	181FS-21 days
187											
188	**LFT04 CH.B51.00~CH.B149.77**	**85 days**	**Thu 25/1/2**	**Thu 25/3/27**	**Thu 25/1/2**	**Thu 25/3/27**	**Mon 26/2/23**	**Mon 26/5/18**	**417 days**		
189	Temp. Drainage Diversion / Sheetpiling	25 days	Thu 25/1/2	Sun 25/1/26	Thu 25/1/2	Sun 25/1/26	Mon 26/2/23	Thu 26/3/19	417 days	0	19
190	Excavation and Lateral Support	25 days	Fri 25/1/10	Mon 25/2/3	Fri 25/1/10	Mon 25/2/3	Tue 26/3/3	Fri 26/3/27	417 days	0	189FS-17 days
191	**Ground and Edge Beams**	**33 days**	**Sat 25/1/18**	**Wed 25/2/19**	**Sat 25/1/18**	**Wed 25/2/19**	**Wed 26/3/11**	**Sun 26/4/12**	**417 days**		
192	Rebar Fixing	25 days	Sat 25/1/18	Tue 25/2/11	Sat 25/1/18	Tue 25/2/11	Wed 26/3/11	Sat 26/4/4	417 days	0	190FS-17 days
193	Formwork Erection and Cast-in items	25 days	Sun 25/1/26	Wed 25/2/19	Sun 25/1/26	Wed 25/2/19	Thu 26/3/19	Sun 26/4/12	417 days	0	192FS-17 days
194	Concreting	1 day	Wed 25/2/5	Wed 25/2/5	Wed 25/2/5	Wed 25/2/5	Sun 26/3/29	Sun 26/3/29	417 days	0	193FS-15 days
195	**Walls**	**33 days**	**Thu 25/2/6**	**Mon 25/3/10**	**Thu 25/2/6**	**Mon 25/3/10**	**Mon 26/3/30**	**Fri 26/5/1**	**417 days**		
196	Rebar Fixing	25 days	Thu 25/2/6	Sun 25/3/2	Thu 25/2/6	Sun 25/3/2	Mon 26/3/30	Thu 26/4/23	417 days	0	194
197	Formwork Erection and Cast-in items	25 days	Fri 25/2/14	Mon 25/3/10	Fri 25/2/14	Mon 25/3/10	Tue 26/4/7	Fri 26/5/1	417 days	0	196FS-17 days
198	Concreting	1 day	Sat 25/2/22	Sat 25/2/22	Sat 25/2/22	Sat 25/2/22	Wed 26/4/15	Wed 26/4/15	417 days	0	197FS-17 days
199	Backfilling and Compaction	25 days	Sun 25/2/23	Wed 25/3/19	Sun 25/2/23	Wed 25/3/19	Thu 26/4/16	Sun 26/5/10	417 days	0	198
200	Removal of Sheetpiles	25 days	Mon 25/3/3	Thu 25/3/27	Mon 25/3/3	Thu 25/3/27	Fri 26/4/24	Mon 26/5/18	417 days	0	199FS-17 days
201	**LFT03 CH.B0.00~CH.B51.00 (PC3)**	**83 days**	**Tue 25/3/11**	**Sun 25/6/1**	**Tue 25/3/11**	**Sun 25/6/1**	**Sat 26/5/2**	**Thu 26/7/23**	**417 days**		
202	Temp. Drainage Diversion / Sheetpiling	25 days	Tue 25/3/11	Fri 25/4/4	Tue 25/3/11	Fri 25/4/4	Sat 26/5/2	Tue 26/5/26	417 days	1	200FS-17 days
203	Excavation and Lateral Support	25 days	Wed 25/3/19	Sat 25/4/12	Wed 25/3/19	Sat 25/4/12	Sun 26/5/10	Wed 26/6/3	417 days	1	202FS-17 days
204	**Ground and Edge Beams**	**33 days**	**Thu 25/3/27**	**Mon 25/4/28**	**Thu 25/3/27**	**Mon 25/4/28**	**Mon 26/5/18**	**Fri 26/6/19**	**417 days**		
205	Rebar Fixing	25 days	Thu 25/3/27	Sun 25/4/20	Thu 25/3/27	Sun 25/4/20	Mon 26/5/18	Thu 26/6/11	417 days	1	203FS-17 days
206	Formwork Erection and Cast-in items	25 days	Fri 25/4/4	Mon 25/4/28	Fri 25/4/4	Mon 25/4/28	Tue 26/5/26	Fri 26/6/19	417 days	1	205FS-17 days
207	Concreting	1 day	Sat 25/4/12	Sat 25/4/12	Sat 25/4/12	Sat 25/4/12	Wed 26/6/3	Wed 26/6/3	417 days	0	206FS-17 days
208	**Walls**	**33 days**	**Sun 25/4/13**	**Thu 25/5/15**	**Sun 25/4/13**	**Thu 25/5/15**	**Thu 26/6/4**	**Mon 26/7/6**	**417 days**		
209	Rebar Fixing	25 days	Sun 25/4/13	Wed 25/5/7	Sun 25/4/13	Wed 25/5/7	Thu 26/6/4	Sun 26/6/28	417 days	1	207
210	Formwork Erection and Cast-in items	25 days	Mon 25/4/21	Thu 25/5/15	Mon 25/4/21	Thu 25/5/15	Fri 26/6/12	Mon 26/7/6	417 days	1	209FS-17 days
211	Concreting	1 day	Tue 25/4/29	Tue 25/4/29	Tue 25/4/29	Tue 25/4/29	Sat 26/6/20	Sat 26/6/20	417 days	0	210FS-17 days
212	Backfilling and Compaction	25 days	Wed 25/4/30	Sat 25/5/24	Wed 25/4/30	Sat 25/5/24	Sun 26/6/21	Wed 26/7/15	417 days	0	211
213	Removal of Sheetpiles	25 days	Thu 25/5/8	Sun 25/6/1	Thu 25/5/8	Sun 25/6/1	Mon 26/6/29	Thu 26/7/23	417 days	0	212FS-17 days
214	Pedestrian Crossing no. 3	21 days	Fri 25/5/16	Thu 25/6/5	Fri 25/5/16	Thu 25/6/5	Tue 26/7/7	Mon 26/7/27	417 days	3	213FS-17 days
102											
103	**Section VI**	**835 days**	**Mon 23/5/15**	**Tue 25/8/26**	**Mon 23/5/15**	**Tue 25/8/26**	**Mon 23/5/15**	**Tue 25/8/26**	**0 days**		



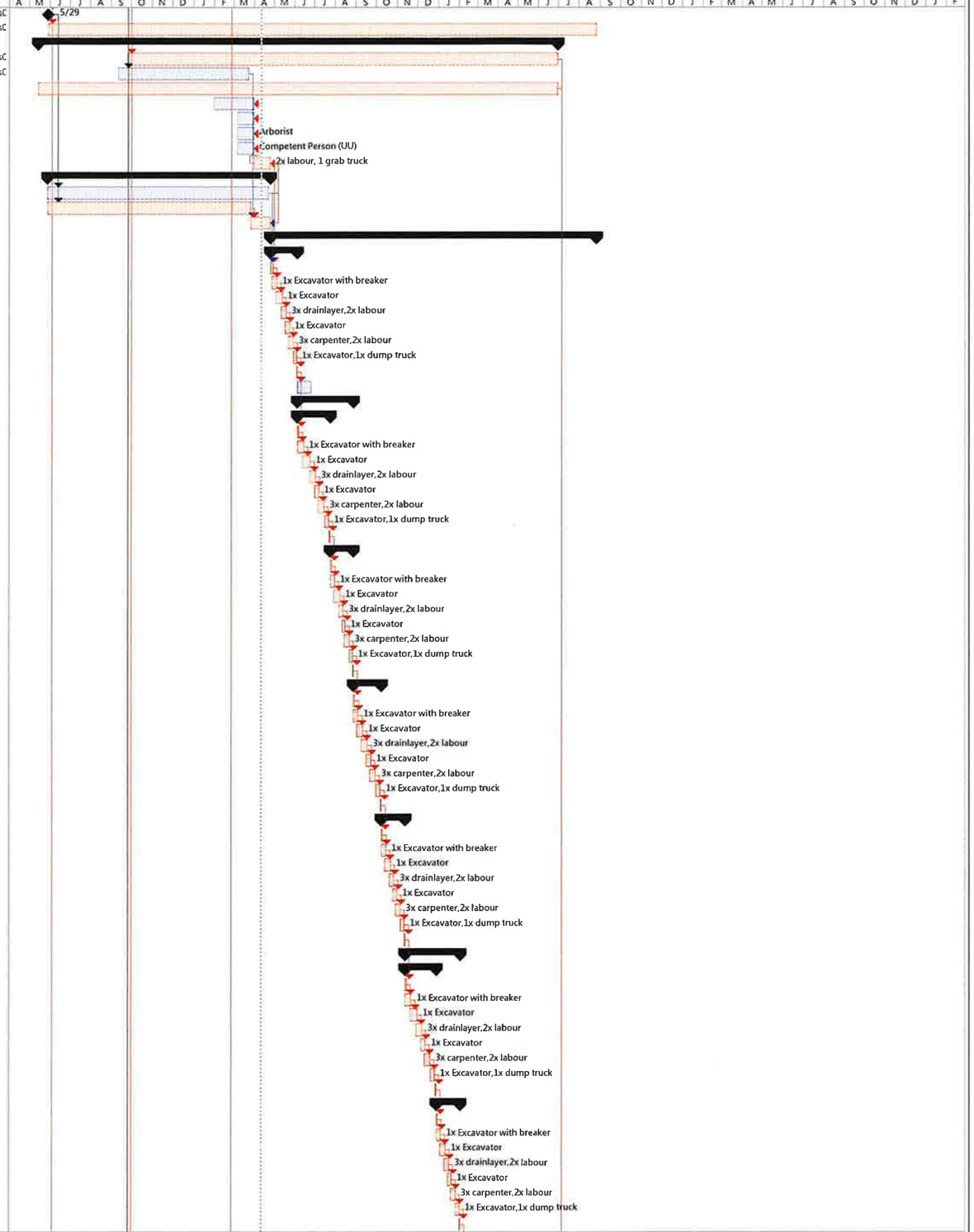
Revision : 7.0 Date: 31 March 2024

´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
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	**Site Establishment**	**778 days**	**Mon 23/5/15**	**Mon 25/6/30**	**Mon 23/5/15**	**Mon 25/6/30**	**Mon 23/5/15**	**Tue 25/8/26**	**0 days**		
5	Prepare and Accept Temp. Works Design and Method Statement	644 days	Tue 23/9/26	Mon 25/6/30	Tue 23/9/26	Mon 25/6/30	Tue 23/9/26	Mon 25/6/30	0 days	0	\\WingTatNasC
6	Public Liaison and Negotiation with Village Rep.	194 days	Tue 23/9/12	Sat 24/3/23	Tue 23/9/12	Sat 24/3/23	Fri 23/9/15	Tue 24/3/26	3 days	0	\\WingTatNasC
7	Initial Survey	778 days	Mon 23/5/15	Mon 25/6/30	Mon 23/5/15	Mon 25/6/30	Mon 23/5/15	Mon 25/6/30	0 days	0	
9	Initial Safety & Environmental measures	60 days	Thu 24/2/1	Mon 24/4/1	Thu 24/2/1	Mon 24/4/1	Sat 25/6/28	Tue 25/8/26	513 days	0	14SF
11	Setup of instrumentation and monitoring	25 days	Thu 24/3/7	Mon 24/4/1	Thu 24/3/7	Mon 24/4/1	Sat 25/8/2	Tue 25/8/26	513 days	0	14SF
12	Tree Survey	25 days	Thu 24/3/7	Mon 24/4/1	Thu 24/3/7	Mon 24/4/1	Sat 25/8/2	Tue 25/8/26	513 days	0	14SF
13	UU detection	25 days	Thu 24/3/7	Mon 24/4/1	Thu 24/3/7	Mon 24/4/1	Sat 25/8/2	Tue 25/8/26	513 days	0	14SF
14	Site Clearance	25 days	Mon 24/4/1	Thu 24/4/25	Mon 24/4/1	Thu 24/4/25	Mon 24/4/1	Thu 24/4/25	0 days	0	18FF
15	**Temporary Traffic Arrangement**	**333 days**	**Mon 23/5/29**	**Thu 24/4/25**	**Mon 23/5/29**	**Thu 24/4/25**	**Mon 23/5/29**	**Thu 24/4/25**	**0 days**		
16	Application of XP	330 days	Mon 23/5/29	Mon 24/4/22	Mon 23/5/29	Mon 24/4/22	Thu 23/6/1	Thu 24/4/25	3 days	0	2FS-1 day
17	Submission of TTA and Arrange TMLG	303 days	Mon 23/5/29	Tue 24/3/26	Mon 23/5/29	Tue 24/3/26	Mon 23/5/29	Tue 24/3/26	0 days	0	2FS-1 day
18	Approval of TTA	30 days	Wed 24/3/27	Thu 24/4/25	Wed 24/3/27	Thu 24/4/25	Wed 24/3/27	Thu 24/4/25	0 days	0	16FF,17,6
19	**Drain Laying Works**	**488 days**	**Fri 24/4/26**	**Tue 25/8/26**	**Fri 24/4/26**	**Tue 25/8/26**	**Fri 24/4/26**	**Tue 25/8/26**	**0 days**		
20	**LFT.D5~NKT Channel,1650PC,B,L=14.5,D=3.54**	**41 days**	**Fri 24/4/26**	**Wed 24/6/5**	**Fri 24/4/26**	**Wed 24/6/5**	**Fri 24/4/26**	**Wed 24/6/5**	**0 days**		
21	TTA Implementation (trial run)	4 days	Fri 24/4/26	Mon 24/4/29	Fri 24/4/26	Mon 24/4/29	Fri 24/4/26	Mon 24/4/29	0 days	0	14,16
22	Breaking Ground	8 days	Sun 24/4/28	Sun 24/5/5	Sun 24/4/28	Sun 24/5/5	Sun 24/4/28	Sun 24/5/5	0 days	0	21FS-2 days
23	Excavation and Lateral Support	10 days	Sat 24/5/4	Mon 24/5/13	Sat 24/5/4	Mon 24/5/13	Sat 24/5/4	Mon 24/5/13	0 days	1	22FS-2 days
24	Drain Laying	8 days	Sun 24/5/12	Sun 24/5/19	Sun 24/5/12	Sun 24/5/19	Sun 24/5/12	Sun 24/5/19	0 days	0	23FS-2 days
25	Bedding and Backfilling	7 days	Sat 24/5/18	Fri 24/5/24	Sat 24/5/18	Fri 24/5/24	Sat 24/5/18	Fri 24/5/24	0 days	0	24FS-2 days
26	Manhole Construction	8 days	Thu 24/5/23	Thu 24/5/30	Thu 24/5/23	Thu 24/5/30	Thu 24/5/23	Thu 24/5/30	0 days	0	25FS-2 days
27	Reinstatement	5 days	Fri 24/5/31	Tue 24/6/4	Fri 24/5/31	Tue 24/6/4	Fri 24/5/31	Tue 24/6/4	0 days	0	26
28	TTA Removal	1 day	Wed 24/6/5	Wed 24/6/5	Wed 24/6/5	Wed 24/6/5	Wed 24/6/5	Wed 24/6/5	0 days	0	27
29	Proposed flap valve	21 days	Thu 24/6/6	Wed 24/6/26	Thu 24/6/6	Wed 24/6/26	Wed 25/8/6	Tue 25/8/26	426 days	0	28
30	**LFT.D4~LFT.D5,1650PC,B,L=50.95,D=3.417**	**85 days**	**Thu 24/6/6**	**Thu 24/8/29**	**Thu 24/6/6**	**Thu 24/8/29**	**Thu 24/6/6**	**Thu 24/8/29**	**0 days**		
31	**Stage 1**	**50 days**	**Thu 24/6/6**	**Thu 24/7/25**	**Thu 24/6/6**	**Thu 24/7/25**	**Thu 24/6/6**	**Thu 24/7/25**	**0 days**		
32	TTA Implementation	2 days	Thu 24/6/6	Fri 24/6/7	Thu 24/6/6	Fri 24/6/7	Thu 24/6/6	Fri 24/6/7	0 days	0	28
33	Breaking Ground	10 days	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	0 days	2	32FS-2 days
34	Excavation and Lateral Support	12 days	Fri 24/6/14	Tue 24/6/25	Fri 24/6/14	Tue 24/6/25	Fri 24/6/14	Tue 24/6/25	0 days	2	33FS-2 days
35	Drain Laying	10 days	Mon 24/6/24	Wed 24/7/3	Mon 24/6/24	Wed 24/7/3	Mon 24/6/24	Wed 24/7/3	0 days	2	34FS-2 days
36	Bedding and Backfilling	7 days	Tue 24/7/2	Mon 24/7/8	Tue 24/7/2	Mon 24/7/8	Tue 24/7/2	Mon 24/7/8	0 days	0	35FS-2 days
37	Manhole Construction	10 days	Sun 24/7/7	Tue 24/7/16	Sun 24/7/7	Tue 24/7/16	Sun 24/7/7	Tue 24/7/16	0 days	2	36FS-2 days
38	Reinstatement	7 days	Wed 24/7/17	Tue 24/7/23	Wed 24/7/17	Tue 24/7/23	Wed 24/7/17	Tue 24/7/23	0 days	0	37
39	TTA Removal	2 days	Wed 24/7/24	Thu 24/7/25	Wed 24/7/24	Thu 24/7/25	Wed 24/7/24	Thu 24/7/25	0 days	0	38
40	**Stage 2**	**35 days**	**Fri 24/7/26**	**Thu 24/8/29**	**Fri 24/7/26**	**Thu 24/8/29**	**Fri 24/7/26**	**Thu 24/8/29**	**0 days**		
41	TTA Implementation	2 days	Fri 24/7/26	Sat 24/7/27	Fri 24/7/26	Sat 24/7/27	Fri 24/7/26	Sat 24/7/27	0 days	0	39
42	Breaking Ground	7 days	Fri 24/7/26	Thu 24/8/1	Fri 24/7/26	Thu 24/8/1	Fri 24/7/26	Thu 24/8/1	0 days	2	41FS-2 days
43	Excavation and Lateral Support	10 days	Wed 24/7/31	Fri 24/8/9	Wed 24/7/31	Fri 24/8/9	Wed 24/7/31	Fri 24/8/9	0 days	2	42FS-2 days
44	Drain Laying	7 days	Thu 24/8/8	Wed 24/8/14	Thu 24/8/8	Wed 24/8/14	Thu 24/8/8	Wed 24/8/14	0 days	2	43FS-2 days
45	Bedding and Backfilling	5 days	Tue 24/8/13	Sat 24/8/17	Tue 24/8/13	Sat 24/8/17	Tue 24/8/13	Sat 24/8/17	0 days	0	44FS-2 days
46	Manhole Construction	8 days	Fri 24/8/16	Fri 24/8/23	Fri 24/8/16	Fri 24/8/23	Fri 24/8/16	Fri 24/8/23	0 days	2	45FS-2 days
47	Reinstatement	5 days	Sat 24/8/24	Wed 24/8/28	Sat 24/8/24	Wed 24/8/28	Sat 24/8/24	Wed 24/8/28	0 days	0	46
48	TTA Removal	1 day	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	Thu 24/8/29	0 days	0	47
49	**LFT.D3a~LFT.D4,1650PC,B,L=22.88,D=3.418**	**41 days**	**Fri 24/8/30**	**Wed 24/10/9**	**Fri 24/8/30**	**Wed 24/10/9**	**Fri 24/8/30**	**Wed 24/10/9**	**0 days**		
50	TTA Implementation	2 days	Fri 24/8/30	Sat 24/8/31	Fri 24/8/30	Sat 24/8/31	Fri 24/8/30	Sat 24/8/31	0 days	0	48
51	Breaking Ground	7 days	Fri 24/8/30	Thu 24/9/5	Fri 24/8/30	Thu 24/9/5	Fri 24/8/30	Thu 24/9/5	0 days	0	50FS-2 days
52	Excavation and Lateral Support	9 days	Wed 24/9/4	Thu 24/9/12	Wed 24/9/4	Thu 24/9/12	Wed 24/9/4	Thu 24/9/12	0 days	2	51FS-2 days
53	Drain Laying	9 days	Wed 24/9/11	Thu 24/9/19	Wed 24/9/11	Thu 24/9/19	Wed 24/9/11	Thu 24/9/19	0 days	2	52FS-2 days
54	Bedding and Backfilling	7 days	Wed 24/9/18	Tue 24/9/24	Wed 24/9/18	Tue 24/9/24	Wed 24/9/18	Tue 24/9/24	0 days	0	53FS-2 days
55	Manhole Construction	9 days	Mon 24/9/23	Tue 24/10/1	Mon 24/9/23	Tue 24/10/1	Mon 24/9/23	Tue 24/10/1	0 days	2	54FS-2 days
56	Reinstatement	7 days	Wed 24/10/2	Tue 24/10/8	Wed 24/10/2	Tue 24/10/8	Wed 24/10/2	Tue 24/10/8	0 days	0	55
57	TTA Removal	1 day	Wed 24/10/9	Wed 24/10/9	Wed 24/10/9	Wed 24/10/9	Wed 24/10/9	Wed 24/10/9	0 days	0	56
58	**LFT.D3~LFT.D3a,1650PC,B,L=13.9,D=3.418**	**35 days**	**Thu 24/10/10**	**Wed 24/11/13**	**Thu 24/10/10**	**Wed 24/11/13**	**Thu 24/10/10**	**Wed 24/11/13**	**0 days**		
59	TTA Implementation	2 days	Thu 24/10/10	Fri 24/10/11	Thu 24/10/10	Fri 24/10/11	Thu 24/10/10	Fri 24/10/11	0 days	0	57
60	Breaking Ground	7 days	Thu 24/10/10	Wed 24/10/16	Thu 24/10/10	Wed 24/10/16	Thu 24/10/10	Wed 24/10/16	0 days	0	59FS-2 days
61	Excavation and Lateral Support	9 days	Tue 24/10/15	Wed 24/10/23	Tue 24/10/15	Wed 24/10/23	Tue 24/10/15	Wed 24/10/23	0 days	1	60FS-2 days
62	Drain Laying	7 days	Tue 24/10/22	Mon 24/10/28	Tue 24/10/22	Mon 24/10/28	Tue 24/10/22	Mon 24/10/28	0 days	0	61FS-2 days
63	Bedding and Backfilling	6 days	Sun 24/10/27	Fri 24/11/1	Sun 24/10/27	Fri 24/11/1	Sun 24/10/27	Fri 24/11/1	0 days	0	62FS-2 days
64	Manhole Construction	7 days	Thu 24/10/31	Wed 24/11/6	Thu 24/10/31	Wed 24/11/6	Thu 24/10/31	Wed 24/11/6	0 days	0	63FS-2 days
65	Reinstatement	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	64
66	TTA Removal	1 day	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	Wed 24/11/13	0 days	0	65
67	**LFT.D2~LFT.D3,1650PC,B,L=39,D=3.34**	**82 days**	**Thu 24/11/14**	**Mon 25/2/3**	**Thu 24/11/14**	**Mon 25/2/3**	**Thu 24/11/14**	**Mon 25/2/3**	**0 days**		
68	**Stage 1**	**46 days**	**Thu 24/11/14**	**Sun 24/12/29**	**Thu 24/11/14**	**Sun 24/12/29**	**Thu 24/11/14**	**Sun 24/12/29**	**0 days**		
69	TTA Implementation	2 days	Thu 24/11/14	Fri 24/11/15	Thu 24/11/14	Fri 24/11/15	Thu 24/11/14	Fri 24/11/15	0 days	0	66
70	Breaking Ground	9 days	Thu 24/11/14	Fri 24/11/22	Thu 24/11/14	Fri 24/11/22	Thu 24/11/14	Fri 24/11/22	0 days	2	69FS-2 days
71	Excavation and Lateral Support	11 days	Thu 24/11/21	Sun 24/12/1	Thu 24/11/21	Sun 24/12/1	Thu 24/11/21	Sun 24/12/1	0 days	2	70FS-2 days
72	Drain Laying	9 days	Sat 24/11/30	Sun 24/12/8	Sat 24/11/30	Sun 24/12/8	Sat 24/11/30	Sun 24/12/8	0 days	2	71FS-2 days
73	Bedding and Backfilling	7 days	Sat 24/12/7	Fri 24/12/13	Sat 24/12/7	Fri 24/12/13	Sat 24/12/7	Fri 24/12/13	0 days	0	72FS-2 days
74	Manhole Construction	9 days	Thu 24/12/12	Fri 24/12/20	Thu 24/12/12	Fri 24/12/20	Thu 24/12/12	Fri 24/12/20	0 days	2	73FS-2 days
75	Reinstatement	7 days	Sat 24/12/21	Fri 24/12/27	Sat 24/12/21	Fri 24/12/27	Sat 24/12/21	Fri 24/12/27	0 days	0	74
76	TTA Removal	2 days	Sat 24/12/28	Sun 24/12/29	Sat 24/12/28	Sun 24/12/29	Sat 24/12/28	Sun 24/12/29	0 days	0	75
77	**Stage 2**	**36 days**	**Mon 24/12/30**	**Mon 25/2/3**	**##########**	**Mon 25/2/3**	**##########**	**Mon 25/2/3**	**0 days**		
78	TTA Implementation	2 days	Mon 24/12/30	Tue 24/12/31	Mon 24/12/30	Tue 24/12/31	Mon 24/12/30	Tue 24/12/31	0 days	0	76
79	Breaking Ground	7 days	Mon 24/12/30	Sun 25/1/5	Mon 24/12/30	Sun 25/1/5	Mon 24/12/30	Sun 25/1/5	0 days	0	78FS-2 days
80	Excavation and Lateral Support	9 days	Sat 25/1/4	Sun 25/1/12	Sat 25/1/4	Sun 25/1/12	Sat 25/1/4	Sun 25/1/12	0 days	1	79FS-2 days
81	Drain Laying	7 days	Sat 25/1/11	Fri 25/1/17	Sat 25/1/11	Fri 25/1/17	Sat 25/1/11	Fri 25/1/17	0 days	1	80FS-2 days
82	Bedding and Backfilling	6 days	Thu 25/1/16	Tue 25/1/21	Thu 25/1/16	Tue 25/1/21	Thu 25/1/16	Tue 25/1/21	0 days	0	81FS-2 days
83	Manhole Construction	8 days	Mon 25/1/20	Mon 25/1/27	Mon 25/1/20	Mon 25/1/27	Mon 25/1/20	Mon 25/1/27	0 days	1	82FS-2 days
84	Reinstatement	6 days	Tue 25/1/28	Sun 25/2/2	Tue 25/1/28	Sun 25/2/2	Tue 25/1/28	Sun 25/2/2	0 days	0	83
85	TTA Removal	1 day	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	Mon 25/2/3	0 days	0	84



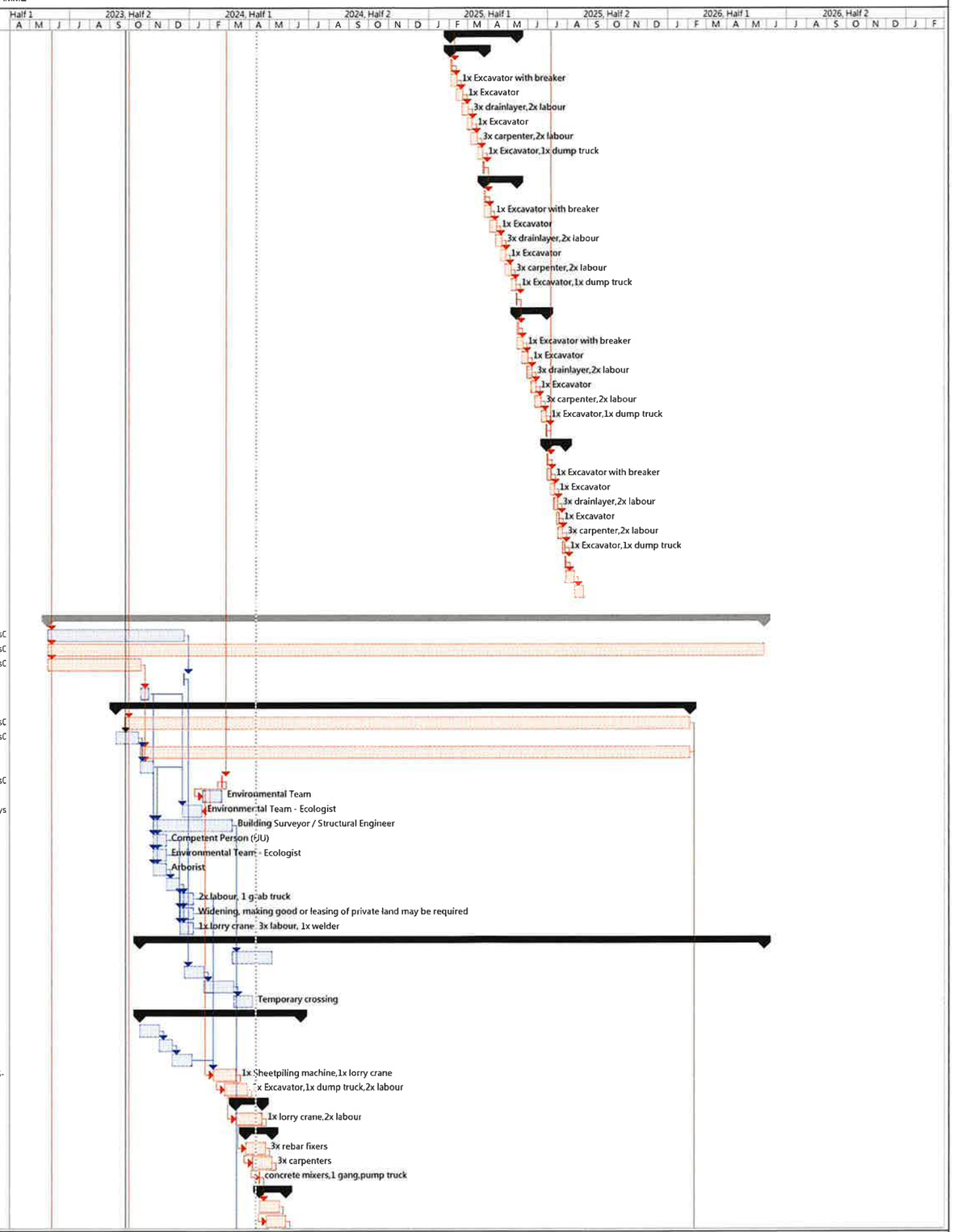
Revision : 7.0 Date: 31 March 2024

´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
86	LFT.D1b~LFT.D2,1650PC,B,L=45.56,D=3.34	101 days	Tue 25/2/4	Thu 25/5/15	Tue 25/2/4	Thu 25/5/15	Tue 25/2/4	Thu 25/5/15	0 days		
87	Stage 1	51 days	Tue 25/2/4	Wed 25/3/26	Tue 25/2/4	Wed 25/3/26	Tue 25/2/4	Wed 25/3/26	0 days		
88	TTA Implementation	2 days	Tue 25/2/4	Wed 25/2/5	Tue 25/2/4	Wed 25/2/5	Tue 25/2/4	Wed 25/2/5	0 days	0	85
89	Breaking Ground	10 days	Tue 25/2/4	Thu 25/2/13	Tue 25/2/4	Thu 25/2/13	Tue 25/2/4	Thu 25/2/13	0 days	2	88FS-2 days
90	Excavation and Lateral Support	11 days	Wed 25/2/12	Sat 25/2/22	Wed 25/2/12	Sat 25/2/22	Wed 25/2/12	Sat 25/2/22	0 days	2	89FS-2 days
91	Drain Laying	10 days	Fri 25/2/21	Sun 25/3/2	Fri 25/2/21	Sun 25/3/2	Fri 25/2/21	Sun 25/3/2	0 days	2	90FS-2 days
92	Bedding and Backfilling	8 days	Sat 25/3/1	Sat 25/3/8	Sat 25/3/1	Sat 25/3/8	Sat 25/3/1	Sat 25/3/8	0 days	0	91FS-2 days
93	Manhole Construction	10 days	Fri 25/3/7	Sun 25/3/16	Fri 25/3/7	Sun 25/3/16	Fri 25/3/7	Sun 25/3/16	0 days	2	92FS-2 days
94	Reinstatement	8 days	Mon 25/3/17	Mon 25/3/24	Mon 25/3/17	Mon 25/3/24	Mon 25/3/17	Mon 25/3/24	0 days	0	93
95	TTA Removal	2 days	Tue 25/3/25	Wed 25/3/26	Tue 25/3/25	Wed 25/3/26	Tue 25/3/25	Wed 25/3/26	0 days	0	94
96	Stage 2	50 days	Thu 25/3/27	Thu 25/5/15	Thu 25/3/27	Thu 25/5/15	Thu 25/3/27	Thu 25/5/15	0 days		
97	TTA Implementation	2 days	Thu 25/3/27	Fri 25/3/28	Thu 25/3/27	Fri 25/3/28	Thu 25/3/27	Fri 25/3/28	0 days	0	95
98	Breaking Ground	10 days	Thu 25/3/27	Sat 25/4/5	Thu 25/3/27	Sat 25/4/5	Thu 25/3/27	Sat 25/4/5	0 days	2	97FS-2 days
99	Excavation and Lateral Support	11 days	Fri 25/4/4	Mon 25/4/14	Fri 25/4/4	Mon 25/4/14	Fri 25/4/4	Mon 25/4/14	0 days	2	98FS-2 days
100	Drain Laying	10 days	Sun 25/4/13	Tue 25/4/22	Sun 25/4/13	Tue 25/4/22	Sun 25/4/13	Tue 25/4/22	0 days	2	99FS-2 days
101	Bedding and Backfilling	8 days	Mon 25/4/21	Mon 25/4/28	Mon 25/4/21	Mon 25/4/28	Mon 25/4/21	Mon 25/4/28	0 days	0	100FS-2 days
102	Manhole Construction	10 days	Sun 25/4/27	Tue 25/5/6	Sun 25/4/27	Tue 25/5/6	Sun 25/4/27	Tue 25/5/6	0 days	2	101FS-2 days
103	Reinstatement	8 days	Wed 25/5/7	Wed 25/5/14	Wed 25/5/7	Wed 25/5/14	Wed 25/5/7	Wed 25/5/14	0 days	0	102
104	TTA Removal	1 day	Thu 25/5/15	Thu 25/5/15	Thu 25/5/15	Thu 25/5/15	Thu 25/5/15	Thu 25/5/15	0 days	0	103
105	LFT.D1a~LFT.D1b,1650PC,B,L=25.59,D=3.411	46 days	Fri 25/5/16	Mon 25/6/30	Fri 25/5/16	Mon 25/6/30	Fri 25/5/16	Mon 25/6/30	0 days		
106	TTA Implementation	2 days	Fri 25/5/16	Sat 25/5/17	Fri 25/5/16	Sat 25/5/17	Fri 25/5/16	Sat 25/5/17	0 days	0	104
107	Breaking Ground	9 days	Fri 25/5/16	Sat 25/5/24	Fri 25/5/16	Sat 25/5/24	Fri 25/5/16	Sat 25/5/24	0 days	0	106FS-2 days
108	Excavation and Lateral Support	10 days	Fri 25/5/23	Sun 25/6/1	Fri 25/5/23	Sun 25/6/1	Fri 25/5/23	Sun 25/6/1	0 days	2	107FS-2 days
109	Drain Laying	8 days	Sat 25/5/31	Sat 25/6/7	Sat 25/5/31	Sat 25/6/7	Sat 25/5/31	Sat 25/6/7	0 days	2	108FS-2 days
110	Bedding and Backfilling	8 days	Fri 25/6/6	Fri 25/6/13	Fri 25/6/6	Fri 25/6/13	Fri 25/6/6	Fri 25/6/13	0 days	1	109FS-2 days
111	Manhole Construction	10 days	Thu 25/6/12	Sat 25/6/21	Thu 25/6/12	Sat 25/6/21	Thu 25/6/12	Sat 25/6/21	0 days	2	110FS-2 days
112	Reinstatement	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	1	111
113	TTA Removal	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	112
114	LFT.D1~LFT.D1a,1650PC,B,L=5.65,D=3.411	29 days	Tue 25/7/1	Tue 25/7/29	Tue 25/7/1	Tue 25/7/29	Tue 25/7/1	Tue 25/7/29	0 days		
115	TTA Implementation	2 days	Tue 25/7/1	Wed 25/7/2	Tue 25/7/1	Wed 25/7/2	Tue 25/7/1	Wed 25/7/2	0 days	0	113,5,7
116	Breaking Ground	7 days	Tue 25/7/1	Mon 25/7/7	Tue 25/7/1	Mon 25/7/7	Tue 25/7/1	Mon 25/7/7	0 days	0	115FS-2 days
117	Excavation and Lateral Support	7 days	Sun 25/7/6	Sat 25/7/12	Sun 25/7/6	Sat 25/7/12	Sun 25/7/6	Sat 25/7/12	0 days	1	116FS-2 days
118	Drain Laying	7 days	Fri 25/7/11	Thu 25/7/17	Fri 25/7/11	Thu 25/7/17	Fri 25/7/11	Thu 25/7/17	0 days	1	117FS-2 days
119	Bedding and Backfilling	4 days	Wed 25/7/16	Sat 25/7/19	Wed 25/7/16	Sat 25/7/19	Wed 25/7/16	Sat 25/7/19	0 days	0	118FS-2 days
120	Manhole Construction	7 days	Fri 25/7/18	Thu 25/7/24	Fri 25/7/18	Thu 25/7/24	Fri 25/7/18	Thu 25/7/24	0 days	0	119FS-2 days
121	Reinstatement	4 days	Fri 25/7/25	Mon 25/7/28	Fri 25/7/25	Mon 25/7/28	Fri 25/7/25	Mon 25/7/28	0 days	0	120
122	TTA Removal	1 day	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	Tue 25/7/29	0 days	0	121
123	CCTV inspection and T&C	14 days	Wed 25/7/30	Tue 25/8/12	Wed 25/7/30	Tue 25/8/12	Wed 25/7/30	Tue 25/8/12	0 days	4	122
124	Final Reinstatement	14 days	Wed 25/8/13	Tue 25/8/26	Wed 25/8/13	Tue 25/8/26	Wed 25/8/13	Tue 25/8/26	0 days	4	123
104											
105	Section IV	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		
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 25/7/20	Sat 26/2/14	782 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	Early access (portion)	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
5	Access to remaining STLA	1 day	Mon 23/12/25	Mon 23/12/25	Mon 23/12/25	Mon 23/12/25	Sat 26/2/14	Sat 26/2/14	782 days	0	2FS-1 day
6	Private Land Leasing	12 days	Sat 23/10/21	Wed 23/11/1	Sat 23/10/21	Wed 23/11/1	Mon 23/11/27	Fri 23/12/8	37 days	0	4
7	Site Establishment	877 days	Tue 23/9/12	Wed 26/2/4	Tue 23/9/12	Wed 26/2/4	Fri 23/9/15	Thu 26/5/28	3 days		
8	Prepare and Accept Temp. Works Design and Method Statement	863 days	Tue 23/9/26	Wed 26/2/4	Tue 23/9/26	Wed 26/2/4	Tue 23/9/26	Wed 26/2/4	0 days	0	\\WingTatNasC
9	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	Fri 23/9/15	Thu 23/10/19	3 days	0	\\WingTatNasC
10	Initial Survey [A]	839 days	Fri 23/10/20	Wed 26/2/4	Fri 23/10/20	Wed 26/2/4	Fri 23/10/20	Wed 26/2/4	0 days	0	9,4FS-1 day
12	Initial Safety & Environmental measures [A]	20 days	Fri 23/10/20	Wed 23/11/8	Fri 23/10/20	Wed 23/11/8	Sun 23/11/19	Fri 23/12/8	30 days	0	9,4FS-1 day
14	EIAO Commencement of Construction	1 day	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	Wed 24/2/21	0 days	0	\\WingTatNasC
16	Environmental Baseline Monitoring	29 days	Tue 24/1/23	Tue 24/2/20	Tue 24/1/23	Tue 24/2/20	Thu 26/4/30	Thu 26/5/28	828 days	0	14FS-30 days
17	Freshwater Crab Translocation Plan [A]	30 days	Sat 23/12/23	Mon 24/1/22	Sat 23/12/23	Mon 24/1/22	Wed 26/4/29	Thu 26/5/28	858 days	0	6,14SF-30 days
18	Condition Survey & Str. Assessment (Shui Kan Shek, Fu Hing Garden, Twin 150(	120 days	Thu 23/11/9	Thu 24/3/7	Thu 23/11/9	Thu 24/3/7	Sun 25/11/30	Sun 26/3/29	752 days	0	6,12
19	UU detection [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Fri 23/12/29	Wed 24/1/17	50 days	0	6,12
20	Vegetation Survey [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Fri 23/12/29	Wed 24/1/17	50 days	0	6,12
21	Tree Survey and Felling [A]	20 days	Thu 23/11/9	Tue 23/11/28	Thu 23/11/9	Tue 23/11/28	Sat 23/12/9	Thu 23/12/28	30 days	0	6,12
22	Setup of instrumentation and monitoring [A]	20 days	Wed 23/11/29	Mon 23/12/18	Wed 23/11/29	Mon 23/12/18	Fri 23/12/29	Wed 24/1/17	30 days	0	21
23	Site Clearance [A]	21 days	Tue 23/12/19	Mon 24/1/8	Tue 23/12/19	Mon 24/1/8	Thu 24/1/18	Wed 24/2/7	30 days	0	22,20
24	Establish access(es) to channels [A]	21 days	Tue 23/12/19	Mon 24/1/8	Tue 23/12/19	Mon 24/1/8	Thu 24/1/18	Wed 24/2/7	30 days	0	19,22
25	Guarding / Barrier / Hoarding [A]	21 days	Tue 23/12/19	Mon 24/1/8	Tue 23/12/19	Mon 24/1/8	Thu 24/1/18	Wed 24/2/7	30 days	0	19,22
26	Drainage Channel Works (East)	953 days	Thu 23/10/19	Thu 26/5/28	Thu 23/10/19	Thu 26/5/28	##########	Thu 26/5/28	0 days		
27	HC05 CH.A284.946~CH.A339.556 (Ex. CH Str. Assessment)	60 days	Fri 24/3/8	Mon 24/5/6	Fri 24/3/8	Mon 24/5/6	Mon 26/3/30	Thu 26/5/28	752 days	0	18
28	(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 26/2/15	Mon 26/3/16	782 days	0	5
29	(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 26/3/17	Thu 26/4/30	782 days	5	28
30	(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 26/5/1	Thu 26/5/28	782 days	0	29
31	HC02 CH.A18.14~CH.A120.261 (BC1~2)	245 days	Thu 23/10/19	Wed 24/6/19	Thu 23/10/19	Wed 24/6/19	##########	Wed 24/6/19	0 days		
32	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 23/11/20	Tue 23/12/19	32 days	0	
33	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 23/12/20	Mon 24/1/8	32 days	0	32
34	Fabrication of Precast units	30 days	Fri 23/12/8	Sat 24/1/6	Fri 23/12/8	Sat 24/1/6	Tue 24/1/9	Wed 24/2/7	32 days	0	33
35	Sheetpiling & Temp. Drainage Diversion	35 days	Thu 24/2/8	Wed 24/3/13	Thu 24/2/8	Wed 24/3/13	Thu 24/2/8	Wed 24/3/13	0 days	1	34,24,25,14FS-
36	Excavation and Lateral Support	35 days	Sun 24/2/25	Sat 24/3/30	Sun 24/2/25	Sat 24/3/30	Sun 24/2/25	Sat 24/3/30	0 days	1	35FS-18 days
37	Walls	40 days	Wed 24/3/13	Sun 24/4/21	Wed 24/3/13	Sun 24/4/21	Wed 24/3/13	Sun 24/4/21	0 days		
38	Install precast portion (double beam)	40 days	Wed 24/3/13	Sun 24/4/21	Wed 24/3/13	Sun 24/4/21	Wed 24/3/13	Sun 24/4/21	0 days	0	36FS-18 days
39	Ground Beams	40 days	Thu 24/3/28	Mon 24/5/6	Thu 24/3/28	Mon 24/5/6	Thu 24/3/28	Mon 24/5/6	0 days		
40	Rebar Fixing	30 days	Thu 24/3/28	Fri 24/4/26	Thu 24/3/28	Fri 24/4/26	Thu 24/3/28	Fri 24/4/26	0 days	1	38FS-25 days
41	Formwork Erection and Cast-in items	30 days	Sun 24/4/7	Mon 24/5/6	Sun 24/4/7	Mon 24/5/6	Sun 24/4/7	Mon 24/5/6	0 days	1	40FS-20 days
42	Concreting	1 day	Wed 24/4/17	Wed 24/4/17	Wed 24/4/17	Wed 24/4/17	Wed 24/4/17	Wed 24/4/17	0 days	0	41FS-20 days
43	Other in-situ portions	40 days	Thu 24/4/18	Mon 24/5/27	Thu 24/4/18	Mon 24/5/27	Thu 24/4/18	Mon 24/5/27	0 days		
44	Rebar Fixing	30 days	Thu 24/4/18	Fri 24/5/17	Thu 24/4/18	Fri 24/5/17	Thu 24/4/18	Fri 24/5/17	0 days	1	42
45	Formwork Erection and Cast-in items	30 days	Sun 24/4/28	Mon 24/5/27	Sun 24/4/28	Mon 24/5/27	Sun 24/4/28	Mon 24/5/27	0 days	1	44FS-20 days



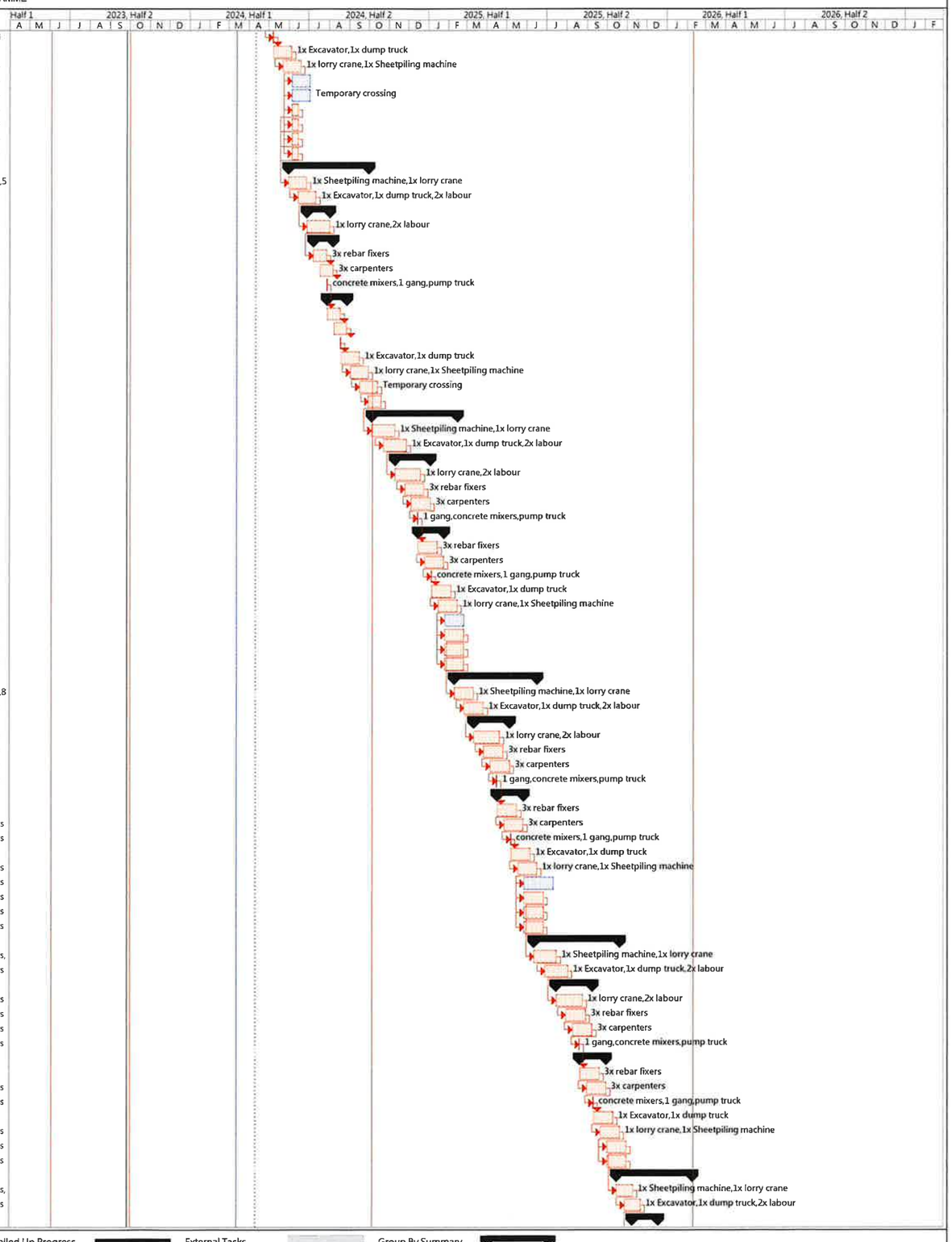
Revision : 7.0 Date: 31 March 2024

´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
46	Concreting	1 day	Wed 24/5/8	Wed 24/5/8	Wed 24/5/8	Wed 24/5/8	Wed 24/5/8	Wed 24/5/8	0 days	0	45FS-20 days
47	Backfilling and Compaction	28 days	Thu 24/5/9	Wed 24/6/5	Thu 24/5/9	Wed 24/6/5	Thu 24/5/9	Wed 24/6/5	0 days	0	46
48	Removal of Sheetpiles	28 days	Thu 24/5/23	Wed 24/6/19	Thu 24/5/23	Wed 24/6/19	Thu 24/5/23	Wed 24/6/19	0 days	0	47FS-14 days
49	Animal Escape Ramp	28 days	Thu 24/6/6	Wed 24/7/3	Thu 24/6/6	Wed 24/7/3	Fri 26/5/1	Thu 26/5/28	694 days	0	48FS-14 days
50	Pedestrian & Vehicular Crossing no. 2 (Box Culvert no. 2)	28 days	Thu 24/6/6	Wed 24/7/3	Thu 24/6/6	Wed 24/7/3	Fri 26/5/1	Thu 26/5/28	694 days	0	48FS-14 days
51	Demolish & relocate toilet YLL797/5	10 days	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	0 days	0	48FS-14 days
52	Demolish & relocate container YLL797/6	10 days	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	0 days	0	48FS-14 days
53	Demolish & relocate porch YLL797/7	10 days	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	0 days	0	48FS-14 days
54	Demolish & relocate fencing, retaining wall YLL797/10,11	10 days	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	Thu 24/6/6	Sat 24/6/15	0 days	0	48FS-14 days
55	**HC03 CH.A126.235~CH.A187.706 (BC2~3)**	**122 days**	**Sat 24/6/1**	**Mon 24/9/30**	**Sat 24/6/1**	**Mon 24/9/30**	**Sat 24/6/1**	**Mon 24/9/30**	**0 days**		
56	Sheetpiling & Temp. Drainage Diversion	28 days	Sat 24/6/1	Fri 24/6/28	Sat 24/6/1	Fri 24/6/28	Sat 24/6/1	Fri 24/6/28	0 days	2	51FS-15 days,5
57	Excavation and Lateral Support	28 days	Sat 24/6/15	Fri 24/7/12	Sat 24/6/15	Fri 24/7/12	Sat 24/6/15	Fri 24/7/12	0 days	2	56FS-14 days
58	**Walls**	**35 days**	**Sat 24/6/29**	**Fri 24/8/2**	**Sat 24/6/29**	**Fri 24/8/2**	**Sat 24/6/29**	**Fri 24/8/2**	**0 days**		
59	Install precast portion (double beam)	35 days	Sat 24/6/29	Fri 24/8/2	Sat 24/6/29	Fri 24/8/2	Sat 24/6/29	Fri 24/8/2	0 days	0	57FS-14 days
60	**Ground Beams**	**30 days**	**Tue 24/7/9**	**Wed 24/8/7**	**Tue 24/7/9**	**Wed 24/8/7**	**Tue 24/7/9**	**Wed 24/8/7**	**0 days**		
61	Rebar Fixing	20 days	Tue 24/7/9	Sun 24/7/28	Tue 24/7/9	Sun 24/7/28	Tue 24/7/9	Sun 24/7/28	0 days	2	59FS-25 days
62	Formwork Erection and Cast-in items	20 days	Fri 24/7/19	Wed 24/8/7	Fri 24/7/19	Wed 24/8/7	Fri 24/7/19	Wed 24/8/7	0 days	2	61FS-10 days
63	Concreting	1 day	Mon 24/7/29	Mon 24/7/29	Mon 24/7/29	Mon 24/7/29	Mon 24/7/29	Mon 24/7/29	0 days	0	62FS-10 days
64	**Other in-situ portions**	**30 days**	**Tue 24/7/30**	**Wed 24/8/28**	**Tue 24/7/30**	**Wed 24/8/28**	**Tue 24/7/30**	**Wed 24/8/28**	**0 days**		
65	Rebar Fixing	20 days	Tue 24/7/30	Sun 24/8/18	Tue 24/7/30	Sun 24/8/18	Tue 24/7/30	Sun 24/8/18	0 days	2	63
66	Formwork Erection and Cast-in items	20 days	Fri 24/8/9	Wed 24/8/28	Fri 24/8/9	Wed 24/8/28	Fri 24/8/9	Wed 24/8/28	0 days	2	65FS-10 days
67	Concreting	1 day	Mon 24/8/19	Mon 24/8/19	Mon 24/8/19	Mon 24/8/19	Mon 24/8/19	Mon 24/8/19	0 days	0	66FS-10 days
68	Backfilling and Compaction	28 days	Tue 24/8/20	Mon 24/9/16	Tue 24/8/20	Mon 24/9/16	Tue 24/8/20	Mon 24/9/16	0 days	0	67
69	Removal of Sheetpiles	28 days	Tue 24/9/3	Mon 24/9/30	Tue 24/9/3	Mon 24/9/30	Tue 24/9/3	Mon 24/9/30	0 days	0	68FS-14 days
71	Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 3)	28 days	Tue 24/9/17	Mon 24/10/14	Tue 24/9/17	Mon 24/10/14	Tue 24/9/17	Mon 24/10/14	0 days	0	69FS-14 days
72	Demolish & relocate drainage channel YLL797/12	20 days	Tue 24/10/1	Sun 24/10/20	Tue 24/10/1	Sun 24/10/20	Tue 24/10/1	Sun 24/10/20	0 days	0	71FS-14 days
73	**HC04 CH.A195.853~CH.A284.946 (BC3~Ex. CH)**	**133 days**	**Sun 24/10/6**	**Sat 25/2/15**	**Sun 24/10/6**	**Sat 25/2/15**	**Sun 24/10/6**	**Sat 25/2/15**	**0 days**		
74	Sheetpiling & Temp. Drainage Diversion	36 days	Sun 24/10/6	Sun 24/11/10	Sun 24/10/6	Sun 24/11/10	Sun 24/10/6	Sun 24/11/10	0 days	2	72FS-15 days
75	Excavation and Lateral Support	36 days	Thu 24/10/24	Thu 24/11/28	Thu 24/10/24	Thu 24/11/28	Thu 24/10/24	Thu 24/11/28	0 days	2	74FS-18 days
76	**Ground and Edge Beams**	**55 days**	**Mon 24/11/11**	**Sat 25/1/4**	**##########**	**Sat 25/1/4**	**##########**	**Sat 25/1/4**	**0 days**		
77	Install precast portion (ground beam)	40 days	Mon 24/11/11	Fri 24/12/20	Mon 24/11/11	Fri 24/12/20	Mon 24/11/11	Fri 24/12/20	0 days	0	75FS-18 days
78	Rebar Fixing	30 days	Tue 24/11/26	Wed 24/12/25	Tue 24/11/26	Wed 24/12/25	Tue 24/11/26	Wed 24/12/25	0 days	2	77FS-25 days
79	Formwork Erection and Cast-in items	30 days	Fri 24/12/6	Sat 25/1/4	Fri 24/12/6	Sat 25/1/4	Fri 24/12/6	Sat 25/1/4	0 days	2	78FS-20 days
80	Concreting	1 day	Mon 24/12/16	Mon 24/12/16	Mon 24/12/16	Mon 24/12/16	Mon 24/12/16	Mon 24/12/16	0 days	0	79FS-20 days
81	**Walls**	**40 days**	**Tue 24/12/17**	**Sat 25/1/25**	**Tue 24/12/17**	**Sat 25/1/25**	**Tue 24/12/17**	**Sat 25/1/25**	**0 days**		
82	Rebar Fixing	30 days	Tue 24/12/17	Wed 25/1/15	Tue 24/12/17	Wed 25/1/15	Tue 24/12/17	Wed 25/1/15	0 days	2	80
83	Formwork Erection and Cast-in items	30 days	Fri 24/12/27	Sat 25/1/25	Fri 24/12/27	Sat 25/1/25	Fri 24/12/27	Sat 25/1/25	0 days	2	82FS-20 days
84	Concreting	1 day	Mon 25/1/6	Mon 25/1/6	Mon 25/1/6	Mon 25/1/6	Mon 25/1/6	Mon 25/1/6	0 days	0	83FS-20 days
85	Backfilling and Compaction	30 days	Tue 25/1/7	Wed 25/2/5	Tue 25/1/7	Wed 25/2/5	Tue 25/1/7	Wed 25/2/5	0 days	0	84
86	Removal of Sheetpiles	30 days	Fri 25/1/17	Sat 25/2/15	Fri 25/1/17	Sat 25/2/15	Fri 25/1/17	Sat 25/2/15	0 days	0	85FS-20 days
87	2x300 pipe with flap valve	30 days	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	Wed 26/4/29	Thu 26/5/28	457 days	4	86FS-20 days
88	Demolish & relocate metal frame YLL797/28,30,33	30 days	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	0 days	0	86FS-20 days
89	Demolish & relocate storage YLL797/29	30 days	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	0 days	0	86FS-20 days
90	Demolish & relocate retaining wall YLL797/32	30 days	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	Mon 25/1/27	Tue 25/2/25	0 days	0	86FS-20 days
91	**HC06 CH.A339.556~CH.A400.00**	**127 days**	**Tue 25/2/11**	**Tue 25/6/17**	**Tue 25/2/11**	**Tue 25/6/17**	**Tue 25/2/11**	**Tue 25/6/17**	**0 days**		
92	Sheetpiling & Temp. Drainage Diversion	30 days	Tue 25/2/11	Wed 25/3/12	Tue 25/2/11	Wed 25/3/12	Tue 25/2/11	Wed 25/3/12	0 days	2	88FS-15 days,8
93	Excavation and Lateral Support	30 days	Wed 25/2/26	Thu 25/3/27	Wed 25/2/26	Thu 25/3/27	Wed 25/2/26	Thu 25/3/27	0 days	2	92FS-15 days
94	**Ground and Edge Beams**	**55 days**	**Thu 25/3/13**	**Tue 25/5/6**	**Thu 25/3/13**	**Tue 25/5/6**	**Thu 25/3/13**	**Tue 25/5/6**	**0 days**		
95	Install precast portion (ground beam)	40 days	Thu 25/3/13	Mon 25/4/21	Thu 25/3/13	Mon 25/4/21	Thu 25/3/13	Mon 25/4/21	0 days	0	93FS-15 days
96	Rebar Fixing	30 days	Fri 25/3/28	Sat 25/4/26	Fri 25/3/28	Sat 25/4/26	Fri 25/3/28	Sat 25/4/26	0 days	2	95FS-25 days
97	Formwork Erection and Cast-in items	30 days	Mon 25/4/7	Tue 25/5/6	Mon 25/4/7	Tue 25/5/6	Mon 25/4/7	Tue 25/5/6	0 days	2	96FS-20 days
98	Concreting	1 day	Thu 25/4/17	Thu 25/4/17	Thu 25/4/17	Thu 25/4/17	Thu 25/4/17	Thu 25/4/17	0 days	0	97FS-20 days
99	**Walls**	**40 days**	**Fri 25/4/18**	**Tue 25/5/27**	**Fri 25/4/18**	**Tue 25/5/27**	**Fri 25/4/18**	**Tue 25/5/27**	**0 days**		
100	Rebar Fixing	30 days	Fri 25/4/18	Sat 25/5/17	Fri 25/4/18	Sat 25/5/17	Fri 25/4/18	Sat 25/5/17	0 days	2	98
101	Formwork Erection and Cast-in items	30 days	Mon 25/4/28	Tue 25/5/27	Mon 25/4/28	Tue 25/5/27	Mon 25/4/28	Tue 25/5/27	0 days	2	100FS-20 days
102	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	101FS-20 days
103	Backfilling and Compaction	30 days	Fri 25/5/9	Sat 25/6/7	Fri 25/5/9	Sat 25/6/7	Fri 25/5/9	Sat 25/6/7	0 days	0	102
104	Removal of Sheetpiles	30 days	Mon 25/5/19	Tue 25/6/17	Mon 25/5/19	Tue 25/6/17	Mon 25/5/19	Tue 25/6/17	0 days	0	103FS-20 days
105	Temp support to 3x ex. Cable bridge	45 days	Thu 25/5/29	Sat 25/7/12	Thu 25/5/29	Sat 25/7/12	Tue 26/4/14	Thu 26/5/28	320 days	4	104FS-20 days
106	Demolish & relocate porch YLL797/34,37	30 days	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	0 days	0	104FS-20 days
107	Demolish & relocate car body YLL797/36	30 days	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	0 days	0	104FS-20 days
108	Demolish & relocate godown YLL797/35	30 days	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	Thu 25/5/29	Fri 25/6/27	0 days	0	104FS-20 days
109	**HC07 CH.A400.00~CH.A500.00**	**131 days**	**Fri 25/6/13**	**Tue 25/10/21**	**Fri 25/6/13**	**Tue 25/10/21**	**Fri 25/6/13**	**Tue 25/10/21**	**0 days**		
110	Sheetpiling & Temp. Drainage Diversion	35 days	Fri 25/6/13	Thu 25/7/17	Fri 25/6/13	Thu 25/7/17	Fri 25/6/13	Thu 25/7/17	0 days	2	106FS-15 days,
111	Excavation and Lateral Support	35 days	Mon 25/6/30	Sun 25/8/3	Mon 25/6/30	Sun 25/8/3	Mon 25/6/30	Sun 25/8/3	0 days	2	110FS-18 days
112	**Ground and Edge Beams**	**55 days**	**Thu 25/7/17**	**Tue 25/9/9**	**Thu 25/7/17**	**Tue 25/9/9**	**Thu 25/7/17**	**Tue 25/9/9**	**0 days**		
113	Install precast portion (ground beam)	40 days	Thu 25/7/17	Mon 25/8/25	Thu 25/7/17	Mon 25/8/25	Thu 25/7/17	Mon 25/8/25	0 days	0	111FS-18 days
114	Rebar Fixing	30 days	Fri 25/8/1	Sat 25/8/30	Fri 25/8/1	Sat 25/8/30	Fri 25/8/1	Sat 25/8/30	0 days	2	113FS-25 days
115	Formwork Erection and Cast-in items	30 days	Mon 25/8/11	Tue 25/9/9	Mon 25/8/11	Tue 25/9/9	Mon 25/8/11	Tue 25/9/9	0 days	2	114FS-20 days
116	Concreting	1 day	Thu 25/8/21	Thu 25/8/21	Thu 25/8/21	Thu 25/8/21	Thu 25/8/21	Thu 25/8/21	0 days	0	115FS-20 days
117	**Walls**	**40 days**	**Fri 25/8/22**	**Tue 25/9/30**	**Fri 25/8/22**	**Tue 25/9/30**	**Fri 25/8/22**	**Tue 25/9/30**	**0 days**		
118	Rebar Fixing	30 days	Fri 25/8/22	Sat 25/9/20	Fri 25/8/22	Sat 25/9/20	Fri 25/8/22	Sat 25/9/20	0 days	2	116
119	Formwork Erection and Cast-in items	30 days	Mon 25/9/1	Tue 25/9/30	Mon 25/9/1	Tue 25/9/30	Mon 25/9/1	Tue 25/9/30	0 days	2	118FS-20 days
120	Concreting	1 day	Thu 25/9/11	Thu 25/9/11	Thu 25/9/11	Thu 25/9/11	Thu 25/9/11	Thu 25/9/11	0 days	0	119FS-20 days
121	Backfilling and Compaction	30 days	Fri 25/9/12	Sat 25/10/11	Fri 25/9/12	Sat 25/10/11	Fri 25/9/12	Sat 25/10/11	0 days	0	120
122	Removal of Sheetpiles	30 days	Mon 25/9/22	Tue 25/10/21	Mon 25/9/22	Tue 25/10/21	Mon 25/9/22	Tue 25/10/21	0 days	0	121FS-20 days
123	Demolish & relocate porch, hoarding YLL797/44	30 days	Thu 25/10/2	Fri 25/10/31	Thu 25/10/2	Fri 25/10/31	Thu 25/10/2	Fri 25/10/31	0 days	0	122FS-20 days
124	Demolish & relocate porch YLL797/38,39	30 days	Thu 25/10/2	Fri 25/10/31	Thu 25/10/2	Fri 25/10/31	Thu 25/10/2	Fri 25/10/31	0 days	0	122FS-20 days
125	**HC08 CH.A500.00~CH.A546.816**	**116 days**	**Fri 25/10/17**	**Mon 26/2/9**	**Fri 25/10/17**	**Mon 26/2/9**	**Fri 25/10/17**	**Mon 26/2/9**	**0 days**		
126	Sheetpiling & Temp. Drainage Diversion	25 days	Fri 25/10/17	Mon 25/11/10	Fri 25/10/17	Mon 25/11/10	Fri 25/10/17	Mon 25/11/10	0 days	2	123FS-15 days,
127	Excavation and Lateral Support	25 days	Wed 25/10/29	Sat 25/11/22	Wed 25/10/29	Sat 25/11/22	Wed 25/10/29	Sat 25/11/22	0 days	2	126FS-13 days
128	**Ground and Edge Beams**	**40 days**	**Mon 25/11/10**	**Fri 25/12/19**	**##########**	**Fri 25/12/19**	**##########**	**Fri 25/12/19**	**0 days**		



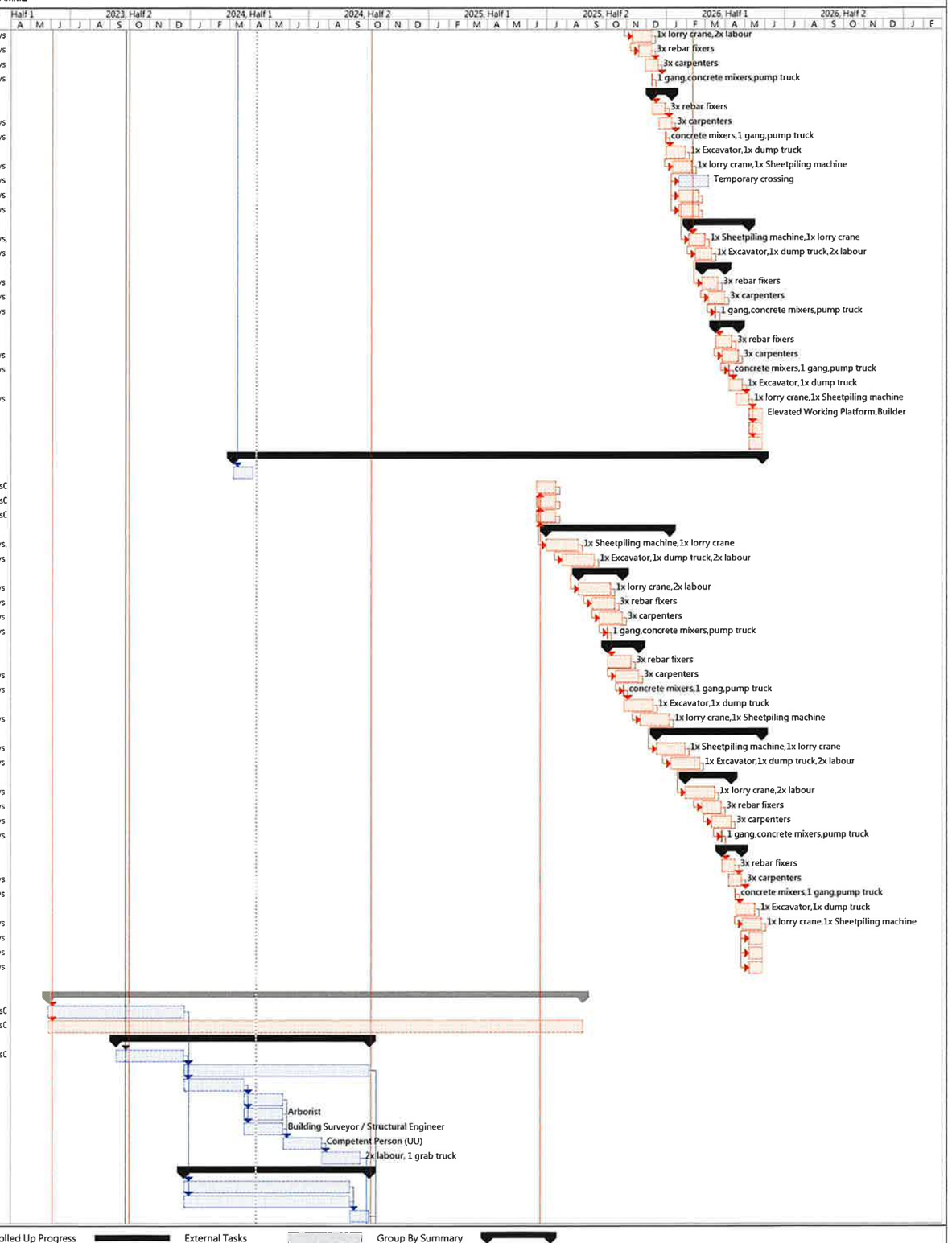
Revision.: 7.0 Date: 31 March 2024

´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
129	Install precast portion (ground beam)	30 days	Mon 25/11/10	Tue 25/12/9	Mon 25/11/10	Tue 25/12/9	Mon 25/11/10	Tue 25/12/9	0 days	0	127FS-13 days
130	Rebar Fixing	20 days	Thu 25/11/20	Tue 25/12/9	Thu 25/11/20	Tue 25/12/9	Thu 25/11/20	Tue 25/12/9	0 days	2	129FS-20 days
131	Formwork Erection and Cast-in items	20 days	Sun 25/11/30	Fri 25/12/19	Sun 25/11/30	Fri 25/12/19	Sun 25/11/30	Fri 25/12/19	0 days	2	130FS-10 days
132	Concreting	1 day	Wed 25/12/10	Wed 25/12/10	Wed 25/12/10	Wed 25/12/10	Wed 25/12/10	Wed 25/12/10	0 days	0	131FS-10 days
133	**Walls**	**30 days**	**Thu 25/12/11**	**Fri 26/1/9**	**Thu 25/12/11**	**Fri 26/1/9**	**Thu 25/12/11**	**Fri 26/1/9**	**0 days**		
134	Rebar Fixing	20 days	Thu 25/12/11	Tue 25/12/30	Thu 25/12/11	Tue 25/12/30	Thu 25/12/11	Tue 25/12/30	0 days	2	132
135	Formwork Erection and Cast-in items	20 days	Sun 25/12/21	Fri 26/1/9	Sun 25/12/21	Fri 26/1/9	Sun 25/12/21	Fri 26/1/9	0 days	2	134FS-10 days
136	Concreting	1 day	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	0 days	0	135FS-10 days
137	Backfilling and Compaction	30 days	Thu 26/1/1	Fri 26/1/30	Thu 26/1/1	Fri 26/1/30	Thu 26/1/1	Fri 26/1/30	0 days	0	136
138	Removal of Sheetpiles	30 days	Sun 26/1/11	Mon 26/2/9	Sun 26/1/11	Mon 26/2/9	Sun 26/1/11	Mon 26/2/9	0 days	0	137FS-20 days
139	Pedestrian & Vehicular Crossing no. 3 (Box Culvert no. 4)	45 days	Wed 26/1/21	Fri 26/3/6	Wed 26/1/21	Fri 26/3/6	Tue 26/4/14	Thu 26/5/28	83 days	4	138FS-20 days
140	Demolish & relocate hoarding, wall YLL797/40	30 days	Wed 26/1/21	Thu 26/2/19	Wed 26/1/21	Thu 26/2/19	Wed 26/1/21	Thu 26/2/19	0 days	0	138FS-20 days
141	Demolish & relocate storage YLL797/42	30 days	Wed 26/1/21	Thu 26/2/19	Wed 26/1/21	Thu 26/2/19	Wed 26/1/21	Thu 26/2/19	0 days	0	138FS-20 days
142	**HC09 CH.A546.816~CH.A611.404**	**92 days**	**Thu 26/2/5**	**Thu 26/5/7**	**Thu 26/2/5**	**Thu 26/5/7**	**Thu 26/2/5**	**Thu 26/5/7**	**0 days**		
143	Sheetpiling & Temp. Drainage Diversion	25 days	Thu 26/2/5	Sun 26/3/1	Thu 26/2/5	Sun 26/3/1	Thu 26/2/5	Sun 26/3/1	0 days	1	140FS-15 days,
144	Excavation and Lateral Support	25 days	Sun 26/2/15	Wed 26/3/11	Sun 26/2/15	Wed 26/3/11	Sun 26/2/15	Wed 26/3/11	0 days	1	143FS-15 days
145	**Base Slab**	**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**		
146	Rebar Fixing	25 days	Wed 26/2/25	Sat 26/3/21	Wed 26/2/25	Sat 26/3/21	Wed 26/2/25	Sat 26/3/21	0 days	1	144FS-15 days
147	Formwork Erection and Cast-in items	25 days	Sat 26/3/7	Tue 26/3/31	Sat 26/3/7	Tue 26/3/31	Sat 26/3/7	Tue 26/3/31	0 days	1	146FS-15 days
148	Concreting	1 day	Tue 26/3/17	Tue 26/3/17	Tue 26/3/17	Tue 26/3/17	Tue 26/3/17	Tue 26/3/17	0 days	0	147FS-15 days
149	**Walls and Roof Slab**	**35 days**	**Wed 26/3/18**	**Tue 26/4/21**	**Wed 26/3/18**	**Tue 26/4/21**	**Wed 26/3/18**	**Tue 26/4/21**	**0 days**		
150	Rebar Fixing	25 days	Wed 26/3/18	Sat 26/4/11	Wed 26/3/18	Sat 26/4/11	Wed 26/3/18	Sat 26/4/11	0 days	1	148
151	Formwork Erection and Cast-in items	25 days	Sat 26/3/28	Tue 26/4/21	Sat 26/3/28	Tue 26/4/21	Sat 26/3/28	Tue 26/4/21	0 days	1	150FS-15 days
152	Concreting	1 day	Tue 26/4/7	Tue 26/4/7	Tue 26/4/7	Tue 26/4/7	Tue 26/4/7	Tue 26/4/7	0 days	0	151FS-15 days
153	Backfilling and Compaction	20 days	Wed 26/4/8	Mon 26/4/27	Wed 26/4/8	Mon 26/4/27	Wed 26/4/8	Mon 26/4/27	0 days	0	152
154	Removal of Sheetpiles	20 days	Sat 26/4/18	Thu 26/5/7	Sat 26/4/18	Thu 26/5/7	Sat 26/4/18	Thu 26/5/7	0 days	0	153FS-10 days
155	Facing stone	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	154
156	ABWF works	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	154
157	Bedding works	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	154
158	**Drainage Channel Works (West)**	**812 days**	**Fri 24/3/8**	**Thu 26/5/28**	**Fri 24/3/8**	**Thu 26/5/28**	**Mon 25/6/16**	**Thu 26/5/28**	**0 days**		
159	HC11 CH.A674.419~CH.A740.619 (Ex. CH Str. Assessment)	30 days	Fri 24/3/8	Sat 24/4/6	Fri 24/3/8	Sat 24/4/6	Wed 26/4/29	Thu 26/5/28	782 days	0	18
161	Demolish ex. Geotechnical feature 6NE-B/R19	30 days	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	0 days	0	\\WingTatNasC
162	Demolish ex. Geotechnical feature 6NE-B/R19	30 days	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	0 days	0	\\WingTatNasC
163	Demolish & relocate boundary wall, platform, gate YLL797/46	30 days	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	Mon 25/6/16	Tue 25/7/15	0 days	0	\\WingTatNasC
164	**HC12 CH.A740.619~CH.A863.619**	**190 days**	**Tue 25/7/1**	**Tue 26/1/6**	**Tue 25/7/1**	**Tue 26/1/6**	**Tue 25/7/1**	**Tue 26/1/6**	**0 days**		
165	Sheetpiling & Temp. Drainage Diversion	50 days	Tue 25/7/1	Tue 25/8/19	Tue 25/7/1	Tue 25/8/19	Tue 25/7/1	Tue 25/8/19	0 days	2	161FS-15 days,
166	Excavation and Lateral Support	50 days	Sat 25/7/26	Sat 25/9/13	Sat 25/7/26	Sat 25/9/13	Sat 25/7/26	Sat 25/9/13	0 days	2	165FS-25 days
167	**Ground and Edge Beams**	**68 days**	**Wed 25/8/20**	**Sun 25/10/26**	**Wed 25/8/20**	**Sun 25/10/26**	**Wed 25/8/20**	**Sun 25/10/26**	**0 days**		
168	Install precast portion (ground beam)	50 days	Wed 25/8/20	Wed 25/10/8	Wed 25/8/20	Wed 25/10/8	Wed 25/8/20	Wed 25/10/8	0 days	0	166FS-25 days
169	Rebar Fixing	36 days	Tue 25/9/9	Tue 25/10/14	Tue 25/9/9	Tue 25/10/14	Tue 25/9/9	Tue 25/10/14	0 days	2	168FS-30 days
170	Formwork Erection and Cast-in items	36 days	Sun 25/9/21	Sun 25/10/26	Sun 25/9/21	Sun 25/10/26	Sun 25/9/21	Sun 25/10/26	0 days	2	169FS-24 days
171	Concreting	1 day	Fri 25/10/3	Fri 25/10/3	Fri 25/10/3	Fri 25/10/3	Fri 25/10/3	Fri 25/10/3	0 days	0	170FS-24 days
172	**Walls**	**48 days**	**Sat 25/10/4**	**Thu 25/11/20**	**Sat 25/10/4**	**Thu 25/11/20**	**Sat 25/10/4**	**Thu 25/11/20**	**0 days**		
173	Rebar Fixing	36 days	Sat 25/10/4	Sat 25/11/8	Sat 25/10/4	Sat 25/11/8	Sat 25/10/4	Sat 25/11/8	0 days	2	171
174	Formwork Erection and Cast-in items	36 days	Thu 25/10/16	Thu 25/11/20	Thu 25/10/16	Thu 25/11/20	Thu 25/10/16	Thu 25/11/20	0 days	2	173FS-24 days
175	Concreting	1 day	Tue 25/10/28	Tue 25/10/28	Tue 25/10/28	Tue 25/10/28	Tue 25/10/28	Tue 25/10/28	0 days	0	174FS-24 days
176	Backfilling and Compaction	45 days	Wed 25/10/29	Fri 25/12/12	Wed 25/10/29	Fri 25/12/12	Wed 25/10/29	Fri 25/12/12	0 days	0	175
177	Removal of Sheetpiles	45 days	Sun 25/11/23	Tue 26/1/6	Sun 25/11/23	Tue 26/1/6	Sun 25/11/23	Tue 26/1/6	0 days	0	176FS-20 days
178	**HC13 CH.A863.619~CH.A905.630**	**161 days**	**Thu 25/12/18**	**Wed 26/5/27**	**Thu 25/12/18**	**Wed 26/5/27**	**Thu 25/12/18**	**Wed 26/5/27**	**0 days**		
179	Sheetpiling & Temp. Drainage Diversion	44 days	Thu 25/12/18	Fri 26/1/30	Thu 25/12/18	Fri 26/1/30	Thu 25/12/18	Fri 26/1/30	0 days	2	177FS-20 days
180	Excavation and Lateral Support	44 days	Fri 26/1/9	Sat 26/2/21	Fri 26/1/9	Sat 26/2/21	Fri 26/1/9	Sat 26/2/21	0 days	2	179FS-22 days
181	**Ground and Edge Beams**	**70 days**	**Sat 26/1/31**	**Fri 26/4/10**	**Sat 26/1/31**	**Fri 26/4/10**	**Sat 26/1/31**	**Fri 26/4/10**	**0 days**		
182	Install precast portion (ground beam)	45 days	Sat 26/1/31	Mon 26/3/16	Sat 26/1/31	Mon 26/3/16	Sat 26/1/31	Mon 26/3/16	0 days	0	180FS-22 days
183	Rebar Fixing	30 days	Wed 26/2/25	Thu 26/3/26	Wed 26/2/25	Thu 26/3/26	Wed 26/2/25	Thu 26/3/26	0 days	2	182FS-20 days
184	Formwork Erection and Cast-in items	30 days	Thu 26/3/12	Fri 26/4/10	Thu 26/3/12	Fri 26/4/10	Thu 26/3/12	Fri 26/4/10	0 days	2	183FS-15 days
185	Concreting	1 day	Fri 26/3/27	Fri 26/3/27	Fri 26/3/27	Fri 26/3/27	Fri 26/3/27	Fri 26/3/27	0 days	0	184FS-15 days
186	**Walls**	**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**		
187	Rebar Fixing	20 days	Sat 26/3/28	Thu 26/4/16	Sat 26/3/28	Thu 26/4/16	Sat 26/3/28	Thu 26/4/16	0 days	2	185
188	Formwork Erection and Cast-in items	20 days	Tue 26/4/7	Sun 26/4/26	Tue 26/4/7	Sun 26/4/26	Tue 26/4/7	Sun 26/4/26	0 days	2	187FS-10 days
189	Concreting	1 day	Fri 26/4/17	Fri 26/4/17	Fri 26/4/17	Fri 26/4/17	Fri 26/4/17	Fri 26/4/17	0 days	0	188FS-10 days
190	Backfilling and Compaction	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	0	189
191	Removal of Sheetpiles	30 days	Tue 26/4/28	Wed 26/5/27	Tue 26/4/28	Wed 26/5/27	Tue 26/4/28	Wed 26/5/27	0 days	0	190FS-20 days
192	Facing stone	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	191FS-20 days
193	ABWF works	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	191FS-20 days
194	Bedding works	21 days	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	Fri 26/5/8	Thu 26/5/28	0 days	0	191FS-20 days
106											
107	**Section VII**	**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**		
2	access date of Portion D	210 days	Tue 23/5/30	Mon 23/12/25	Tue 23/5/30	Mon 23/12/25	Fri 23/6/9	Thu 24/1/4	10 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**	**##########**	**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 24/1/4	Wed 24/4/3	10 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 24/4/4	Sun 24/6/2	10 days	0	8
10	Tree Survey	60 days	Mon 24/3/25	Thu 24/5/23	Mon 24/3/25	Thu 24/5/23	Thu 24/4/4	Sun 24/6/2	10 days	0	8
11	Condition Survey	60 days	Mon 24/3/25	Thu 24/5/23	Mon 24/3/25	Thu 24/5/23	Thu 24/4/4	Sun 24/6/2	10 days	0	8
12	UU detection	60 days	Fri 24/5/24	Mon 24/7/22	Fri 24/5/24	Mon 24/7/22	Mon 24/6/3	Thu 24/8/1	10 days	0	9,11,10
13	Site Clearance	60 days	Tue 24/7/23	Fri 24/9/20	Tue 24/7/23	Fri 24/9/20	Fri 24/8/2	Mon 24/9/30	10 days	0	12
14	**Temporary Traffic Arrangement**	**285 days**	**Mon 23/12/25**	**Fri 24/10/4**	**##########**	**Fri 24/10/4**	**Thu 24/1/4**	**##########**	**10 days**		
15	Application of XP	255 days	Mon 23/12/25	Wed 24/9/4	Mon 23/12/25	Wed 24/9/4	Thu 24/1/4	Sat 24/9/14	10 days	0	2FS-1 day
16	Submission of TTA and Arrange TMLG	255 days	Mon 23/12/25	Wed 24/9/4	Mon 23/12/25	Wed 24/9/4	Thu 24/1/4	Sat 24/9/14	10 days	0	2FS-1 day
17	Approval of TTA	30 days	Thu 24/9/5	Fri 24/10/4	Thu 24/9/5	Fri 24/10/4	Sun 24/9/15	Mon 24/10/14	10 days	0	15,16



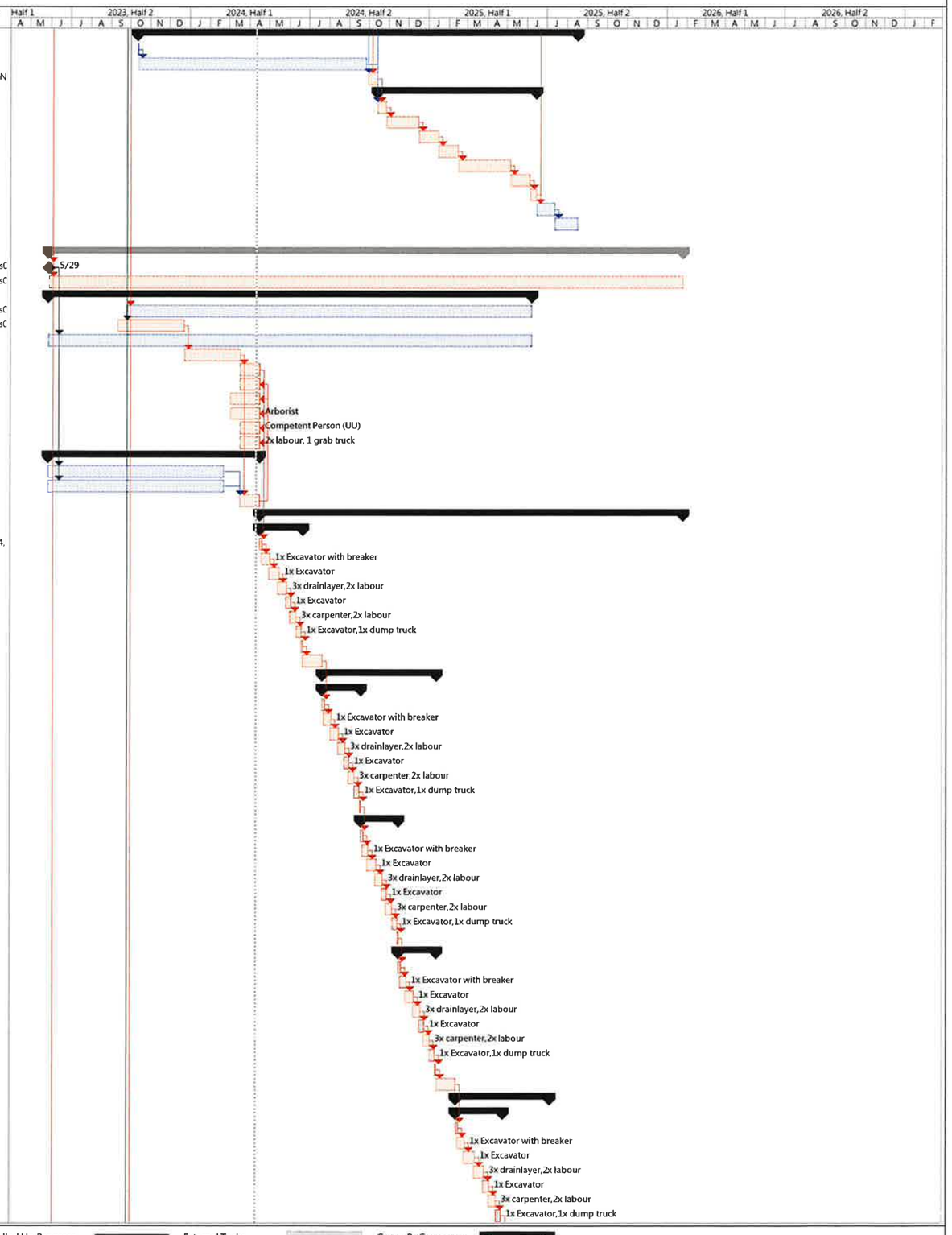
Revision.: 7.0 Date: 31 March 2024

´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
18	**Drain Laying Works**	**675 days**	**Fri 23/10/13**	**Sun 25/8/17**	**Fri 23/10/13**	**Sun 25/8/17**	**##########**	**Tue 25/8/26**	**9 days**		
19	EWN/002 Insufficient space for Twin pipes	1 day	Fri 23/10/13	Fri 23/10/13	Fri 23/10/13	Fri 23/10/13	Mon 23/10/30	Mon 23/10/30	17 days	0	
20	Temp. Works Design for alternative method	350 days	Sat 23/10/14	Fri 24/9/27	Sat 23/10/14	Fri 24/9/27	Tue 23/10/31	Mon 24/10/14	17 days	0	19
22	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	13,\\WingTatN
23	**HC10 CH.A611.404~CH.A674.419 (Fan Kam Road)**	**244 days**	**Tue 24/10/15**	**Sun 25/6/15**	**Tue 24/10/15**	**Sun 25/6/15**	**Tue 24/10/15**	**Sun 25/6/15**	**0 days**		
24	Mobilisation of plant	14 days	Tue 24/10/15	Mon 24/10/28	Tue 24/10/15	Mon 24/10/28	Tue 24/10/15	Mon 24/10/28	0 days	0	22,17,20,6
25	Installation of pipe roofing	50 days	Tue 24/10/29	Tue 24/12/17	Tue 24/10/29	Tue 24/12/17	Tue 24/10/29	Tue 24/12/17	0 days	10	24
26	Demolition of existing drainage structure	30 days	Wed 24/12/18	Thu 25/1/16	Wed 24/12/18	Thu 25/1/16	Wed 24/12/18	Thu 25/1/16	0 days	3	25
27	Installation of temporary support	30 days	Fri 25/1/17	Sat 25/2/15	Fri 25/1/17	Sat 25/2/15	Fri 25/1/17	Sat 25/2/15	0 days	5	26
28	Construction of alternative box-culvert	80 days	Sun 25/2/16	Tue 25/5/6	Sun 25/2/16	Tue 25/5/6	Sun 25/2/16	Tue 25/5/6	0 days	10	27
29	Removal of temporary support	30 days	Wed 25/5/7	Thu 25/6/5	Wed 25/5/7	Thu 25/6/5	Wed 25/5/7	Thu 25/6/5	0 days	3	28
30	Demoblisation	10 days	Fri 25/6/6	Sun 25/6/15	Fri 25/6/6	Sun 25/6/15	Fri 25/6/6	Sun 25/6/15	0 days	0	29
34	CCTV inspection	28 days	Mon 25/6/16	Sun 25/7/13	Mon 25/6/16	Sun 25/7/13	Wed 25/6/25	Tue 25/7/22	9 days	4	30
35	Reinstatement	35 days	Mon 25/7/14	Sun 25/8/17	Mon 25/7/14	Sun 25/8/17	Wed 25/7/23	Tue 25/8/26	9 days	5	34
108											
109	**Section V**	**974 days**	**Mon 23/5/29**	**Mon 26/1/26**	**Mon 23/5/29**	**Mon 26/1/26**	**Tue 23/5/30**	**Mon 26/1/26**	**0 days**		
2	access date of Portion E1	0 days	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Mon 23/5/29	Fri 23/6/23	Fri 23/6/23	25 days	0	\\WingTatNasC
3	section V (Shan Ha Tsuen - Shan Ha Road) (40d expected EOT)	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	**Site Establishment**	**742 days**	**Mon 23/5/29**	**Sun 25/6/8**	**Mon 23/5/29**	**Sun 25/6/8**	**Tue 23/9/12**	**Mon 26/1/26**	**106 days**		
5	Prepare and Accept Temp. Works Design and Method Statement [A]	622 days	Tue 23/9/26	Sun 25/6/8	Tue 23/9/26	Sun 25/6/8	Wed 24/5/15	Mon 26/1/26	232 days	0	\\WingTatNasC
6	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	Tue 23/9/12	Sun 23/12/24	0 days	0	\\WingTatNasC
7	Initial Survey [A]	742 days	Mon 23/5/29	Sun 25/6/8	Mon 23/5/29	Sun 25/6/8	Tue 24/1/16	Mon 26/1/26	232 days	0	2FS-1 day
8	[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	Mon 23/12/25	Mon 24/3/18	0 days	0	6
9	[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	Tue 24/3/19	Wed 24/4/17	0 days	0	8
11	Initial Safety & Environmental measures [A]	30 days	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	0 days	0	16FF
13	Setup of instrumentation and monitoring [A]	45 days	Mon 24/3/4	Wed 24/4/17	Mon 24/3/4	Wed 24/4/17	Mon 24/3/4	Wed 24/4/17	0 days	0	16FF
14	Tree Survey [A]	45 days	Mon 24/3/4	Wed 24/4/17	Mon 24/3/4	Wed 24/4/17	Mon 24/3/4	Wed 24/4/17	0 days	0	16FF
15	UU detection	30 days	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	0 days	0	16FF
16	Site Clearance	30 days	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	0 days	0	20FF
17	**Temporary Traffic Arrangement**	**325 days**	**Mon 23/5/29**	**Wed 24/4/17**	**Mon 23/5/29**	**Wed 24/4/17**	**Fri 23/6/23**	**Wed 24/4/17**	**0 days**		
18	Application of XP [A]	270 days	Mon 23/5/29	Thu 24/2/22	Mon 23/5/29	Thu 24/2/22	Fri 23/6/23	Mon 24/3/18	25 days	0	2FS-1 day
19	Submission of TTA and Arrange TMLG [A]	270 days	Mon 23/5/29	Thu 24/2/22	Mon 23/5/29	Thu 24/2/22	Fri 23/6/23	Mon 24/3/18	25 days	0	2FS-1 day
20	Approval of TTA	30 days	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	Tue 24/3/19	Wed 24/4/17	0 days	0	18,19,8
21	**Drain Laying Works**	**649 days**	**Thu 24/4/18**	**Mon 26/1/26**	**Thu 24/4/18**	**Mon 26/1/26**	**Thu 24/4/18**	**Mon 26/1/26**	**0 days**		
22	**SHT.A05~SHT.A06A,1500PC,B,L=13.12,D=3.15**	**66 days**	**Thu 24/4/18**	**Sat 24/6/22**	**Thu 24/4/18**	**Sat 24/6/22**	**Thu 24/4/18**	**Sat 24/6/22**	**0 days**		
23	TTA Implementation	4 days	Thu 24/4/18	Sun 24/4/21	Thu 24/4/18	Sun 24/4/21	Thu 24/4/18	Sun 24/4/21	0 days	0	16,20,11,13,14,
24	Breaking Ground	14 days	Sat 24/4/20	Fri 24/5/3	Sat 24/4/20	Fri 24/5/3	Sat 24/4/20	Fri 24/5/3	0 days	1	23FS-2 days
25	Excavation and Lateral Support	16 days	Thu 24/5/2	Fri 24/5/17	Thu 24/5/2	Fri 24/5/17	Thu 24/5/2	Fri 24/5/17	0 days	2	24FS-2 days
26	Drain Laying	14 days	Thu 24/5/16	Wed 24/5/29	Thu 24/5/16	Wed 24/5/29	Thu 24/5/16	Wed 24/5/29	0 days	2	25FS-2 days
27	Bedding and Backfilling	8 days	Tue 24/5/28	Tue 24/6/4	Tue 24/5/28	Tue 24/6/4	Tue 24/5/28	Tue 24/6/4	0 days	0	26FS-2 days
28	Manhole Construction	10 days	Mon 24/6/3	Wed 24/6/12	Mon 24/6/3	Wed 24/6/12	Mon 24/6/3	Wed 24/6/12	0 days	1	27FS-2 days
29	Reinstatement	8 days	Thu 24/6/13	Thu 24/6/20	Thu 24/6/13	Thu 24/6/20	Thu 24/6/13	Thu 24/6/20	0 days	0	28
30	TTA Removal	2 days	Fri 24/6/21	Sat 24/6/22	Fri 24/6/21	Sat 24/6/22	Fri 24/6/21	Sat 24/6/22	0 days	0	29
31	Connection of ex. 900pipe to SHT.A06A	30 days	Sun 24/6/23	Mon 24/7/22	Sun 24/6/23	Mon 24/7/22	Sun 24/6/23	Mon 24/7/22	0 days	0	30
32	**SHT.A04~SHT.A05,1500PC,B,L=81.31,D=3.44**	**176 days**	**Tue 24/7/23**	**Tue 25/1/14**	**Tue 24/7/23**	**Tue 25/1/14**	**Tue 24/7/23**	**Tue 25/1/14**	**0 days**		
33	**Stage 1**	**60 days**	**Tue 24/7/23**	**Fri 24/9/20**	**Tue 24/7/23**	**Fri 24/9/20**	**Tue 24/7/23**	**Fri 24/9/20**	**0 days**		
34	TTA Implementation	4 days	Tue 24/7/23	Fri 24/7/26	Tue 24/7/23	Fri 24/7/26	Tue 24/7/23	Fri 24/7/26	0 days	0	31
35	Breaking Ground	12 days	Thu 24/7/25	Mon 24/8/5	Thu 24/7/25	Mon 24/8/5	Thu 24/7/25	Mon 24/8/5	0 days	1	34FS-2 days
36	Excavation and Lateral Support	14 days	Sun 24/8/4	Sat 24/8/17	Sun 24/8/4	Sat 24/8/17	Sun 24/8/4	Sat 24/8/17	0 days	2	35FS-2 days
37	Drain Laying	12 days	Fri 24/8/16	Tue 24/8/27	Fri 24/8/16	Tue 24/8/27	Fri 24/8/16	Tue 24/8/27	0 days	2	36FS-2 days
38	Bedding and Backfilling	8 days	Mon 24/8/26	Mon 24/9/2	Mon 24/8/26	Mon 24/9/2	Mon 24/8/26	Mon 24/9/2	0 days	0	37FS-2 days
39	Manhole Construction	10 days	Sun 24/9/1	Tue 24/9/10	Sun 24/9/1	Tue 24/9/10	Sun 24/9/1	Tue 24/9/10	0 days	1	38FS-2 days
40	Reinstatement	8 days	Wed 24/9/11	Wed 24/9/18	Wed 24/9/11	Wed 24/9/18	Wed 24/9/11	Wed 24/9/18	0 days	0	39
41	TTA Removal	2 days	Thu 24/9/19	Fri 24/9/20	Thu 24/9/19	Fri 24/9/20	Thu 24/9/19	Fri 24/9/20	0 days	0	40
42	**Stage 2**	**58 days**	**Sat 24/9/21**	**Sun 24/11/17**	**Sat 24/9/21**	**Sun 24/11/17**	**Sat 24/9/21**	**Sun 24/11/17**	**0 days**		
43	TTA Implementation	4 days	Sat 24/9/21	Tue 24/9/24	Sat 24/9/21	Tue 24/9/24	Sat 24/9/21	Tue 24/9/24	0 days	0	41
44	Breaking Ground	10 days	Mon 24/9/23	Wed 24/10/2	Mon 24/9/23	Wed 24/10/2	Mon 24/9/23	Wed 24/10/2	0 days	1	43FS-2 days
45	Excavation and Lateral Support	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	2	44FS-2 days
46	Drain Laying	12 days	Sun 24/10/13	Thu 24/10/24	Sun 24/10/13	Thu 24/10/24	Sun 24/10/13	Thu 24/10/24	0 days	2	45FS-2 days
47	Bedding and Backfilling	8 days	Wed 24/10/23	Wed 24/10/30	Wed 24/10/23	Wed 24/10/30	Wed 24/10/23	Wed 24/10/30	0 days	0	46FS-2 days
48	Manhole Construction	10 days	Tue 24/10/29	Thu 24/11/7	Tue 24/10/29	Thu 24/11/7	Tue 24/10/29	Thu 24/11/7	0 days	1	47FS-2 days
49	Reinstatement	8 days	Fri 24/11/8	Fri 24/11/15	Fri 24/11/8	Fri 24/11/15	Fri 24/11/8	Fri 24/11/15	0 days	0	48
50	TTA Removal	2 days	Sat 24/11/16	Sun 24/11/17	Sat 24/11/16	Sun 24/11/17	Sat 24/11/16	Sun 24/11/17	0 days	0	49
51	**Stage 3**	**58 days**	**Mon 24/11/18**	**Tue 25/1/14**	**##########**	**Tue 25/1/14**	**##########**	**Tue 25/1/14**	**0 days**		
52	TTA Implementation	4 days	Mon 24/11/18	Thu 24/11/21	Mon 24/11/18	Thu 24/11/21	Mon 24/11/18	Thu 24/11/21	0 days	0	50
53	Breaking Ground	10 days	Wed 24/11/20	Fri 24/11/29	Wed 24/11/20	Fri 24/11/29	Wed 24/11/20	Fri 24/11/29	0 days	1	52FS-2 days
54	Excavation and Lateral Support	14 days	Thu 24/11/28	Wed 24/12/11	Thu 24/11/28	Wed 24/12/11	Thu 24/11/28	Wed 24/12/11	0 days	2	53FS-2 days
55	Drain Laying	12 days	Tue 24/12/10	Sat 24/12/21	Tue 24/12/10	Sat 24/12/21	Tue 24/12/10	Sat 24/12/21	0 days	2	54FS-2 days
56	Bedding and Backfilling	8 days	Fri 24/12/20	Fri 24/12/27	Fri 24/12/20	Fri 24/12/27	Fri 24/12/20	Fri 24/12/27	0 days	0	55FS-2 days
57	Manhole Construction	10 days	Thu 24/12/26	Sat 25/1/4	Thu 24/12/26	Sat 25/1/4	Thu 24/12/26	Sat 25/1/4	0 days	1	56FS-2 days
58	Reinstatement	8 days	Sun 25/1/5	Sun 25/1/12	Sun 25/1/5	Sun 25/1/12	Sun 25/1/5	Sun 25/1/12	0 days	0	57
59	TTA Removal	2 days	Mon 25/1/13	Tue 25/1/14	Mon 25/1/13	Tue 25/1/14	Mon 25/1/13	Tue 25/1/14	0 days	0	58
60	Connection of ex. 900pipe to SHT.A05	30 days	Wed 25/1/15	Thu 25/2/13	Wed 25/1/15	Thu 25/2/13	Wed 25/1/15	Thu 25/2/13	0 days	0	59
61	**SHT.A3A~SHT.A04,1500PC,B,L=49.29,D=3.65**	**144 days**	**Fri 25/2/14**	**Mon 25/7/7**	**Fri 25/2/14**	**Mon 25/7/7**	**Fri 25/2/14**	**Mon 25/7/7**	**0 days**		
62	**Stage 1**	**72 days**	**Fri 25/2/14**	**Sat 25/4/26**	**Fri 25/2/14**	**Sat 25/4/26**	**Fri 25/2/14**	**Sat 25/4/26**	**0 days**		
63	TTA Implementation	4 days	Fri 25/2/14	Mon 25/2/17	Fri 25/2/14	Mon 25/2/17	Fri 25/2/14	Mon 25/2/17	0 days	0	60
64	Breaking Ground	12 days	Sun 25/2/16	Thu 25/2/27	Sun 25/2/16	Thu 25/2/27	Sun 25/2/16	Thu 25/2/27	0 days	1	63FS-2 days
65	Excavation and Lateral Support	18 days	Wed 25/2/26	Sat 25/3/15	Wed 25/2/26	Sat 25/3/15	Wed 25/2/26	Sat 25/3/15	0 days	2	64FS-2 days
66	Drain Laying	16 days	Fri 25/3/14	Sat 25/3/29	Fri 25/3/14	Sat 25/3/29	Fri 25/3/14	Sat 25/3/29	0 days	2	65FS-2 days
67	Bedding and Backfilling	10 days	Fri 25/3/28	Sun 25/4/6	Fri 25/3/28	Sun 25/4/6	Fri 25/3/28	Sun 25/4/6	0 days	0	66FS-2 days
68	Manhole Construction	12 days	Sat 25/4/5	Wed 25/4/16	Sat 25/4/5	Wed 25/4/16	Sat 25/4/5	Wed 25/4/16	0 days	1	67FS-2 days
69	Reinstatement	8 days	Thu 25/4/17	Thu 25/4/24	Thu 25/4/17	Thu 25/4/24	Thu 25/4/17	Thu 25/4/24	0 days	0	68



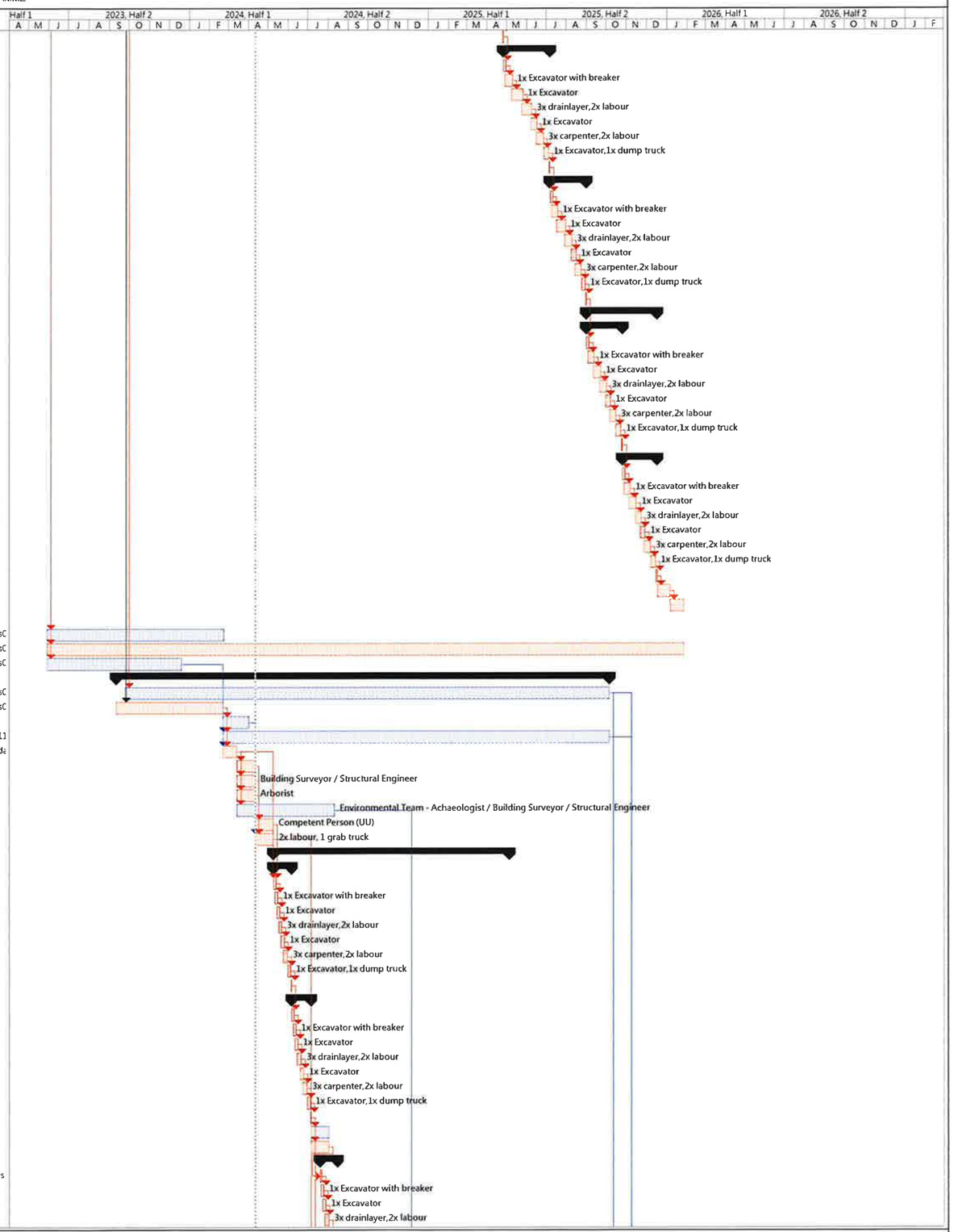
Revision.: 7.0 Date: 31 March 2024

´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
70	TTA Removal	2 days	Fri 25/4/25	Sat 25/4/26	Fri 25/4/25	Sat 25/4/26	Fri 25/4/25	Sat 25/4/26	0 days	0	69
71	**Stage 2**	**72 days**	**Sun 25/4/27**	**Mon 25/7/7**	**Sun 25/4/27**	**Mon 25/7/7**	**Sun 25/4/27**	**Mon 25/7/7**	**0 days**		
72	TTA Implementation	4 days	Sun 25/4/27	Wed 25/4/30	Sun 25/4/27	Wed 25/4/30	Sun 25/4/27	Wed 25/4/30	0 days	0	70
73	Breaking Ground	12 days	Tue 25/4/29	Sat 25/5/10	Tue 25/4/29	Sat 25/5/10	Tue 25/4/29	Sat 25/5/10	0 days	1	72FS-2 days
74	Excavation and Lateral Support	18 days	Fri 25/5/9	Mon 25/5/26	Fri 25/5/9	Mon 25/5/26	Fri 25/5/9	Mon 25/5/26	0 days	2	73FS-2 days
75	Drain Laying	16 days	Sun 25/5/25	Mon 25/6/9	Sun 25/5/25	Mon 25/6/9	Sun 25/5/25	Mon 25/6/9	0 days	2	74FS-2 days
76	Bedding and Backfilling	10 days	Sun 25/6/8	Tue 25/6/17	Sun 25/6/8	Tue 25/6/17	Sun 25/6/8	Tue 25/6/17	0 days	0	75FS-2 days
77	Manhole Construction	12 days	Mon 25/6/16	Fri 25/6/27	Mon 25/6/16	Fri 25/6/27	Mon 25/6/16	Fri 25/6/27	0 days	1	76FS-2 days
78	Reinstatement	8 days	Sat 25/6/28	Sat 25/7/5	Sat 25/6/28	Sat 25/7/5	Sat 25/6/28	Sat 25/7/5	0 days	0	77
79	TTA Removal	2 days	Sun 25/7/6	Mon 25/7/7	Sun 25/7/6	Mon 25/7/7	Sun 25/7/6	Mon 25/7/7	0 days	0	78
80	**SHT.A03~SHT.A3A,1500PC,B,L=8.59,D=3.65**	**56 days**	**Tue 25/7/8**	**Mon 25/9/1**	**Tue 25/7/8**	**Mon 25/9/1**	**Tue 25/7/8**	**Mon 25/9/1**	**0 days**		
81	TTA Implementation	4 days	Tue 25/7/8	Fri 25/7/11	Tue 25/7/8	Fri 25/7/11	Tue 25/7/8	Fri 25/7/11	0 days	0	79
82	Breaking Ground	10 days	Thu 25/7/10	Sat 25/7/19	Thu 25/7/10	Sat 25/7/19	Thu 25/7/10	Sat 25/7/19	0 days	1	81FS-2 days
83	Excavation and Lateral Support	14 days	Fri 25/7/18	Thu 25/7/31	Fri 25/7/18	Thu 25/7/31	Fri 25/7/18	Thu 25/7/31	0 days	2	82FS-2 days
84	Drain Laying	12 days	Wed 25/7/30	Sun 25/8/10	Wed 25/7/30	Sun 25/8/10	Wed 25/7/30	Sun 25/8/10	0 days	2	83FS-2 days
85	Bedding and Backfilling	8 days	Sat 25/8/9	Sat 25/8/16	Sat 25/8/9	Sat 25/8/16	Sat 25/8/9	Sat 25/8/16	0 days	0	84FS-2 days
86	Manhole Construction	10 days	Fri 25/8/15	Sun 25/8/24	Fri 25/8/15	Sun 25/8/24	Fri 25/8/15	Sun 25/8/24	0 days	1	85FS-2 days
87	Reinstatement	6 days	Mon 25/8/25	Sat 25/8/30	Mon 25/8/25	Sat 25/8/30	Mon 25/8/25	Sat 25/8/30	0 days	0	86
88	TTA Removal	2 days	Sun 25/8/31	Mon 25/9/1	Sun 25/8/31	Mon 25/9/1	Sun 25/8/31	Mon 25/9/1	0 days	0	87
89	**SHT.A02~SHT.A03,1500PC,T,L=32.82,D=3.6**	**107 days**	**Tue 25/9/2**	**Wed 25/12/17**	**Tue 25/9/2**	**Wed 25/12/17**	**Tue 25/9/2**	**Wed 25/12/17**	**0 days**		
90	**Stage 1**	**55 days**	**Tue 25/9/2**	**Sun 25/10/26**	**Tue 25/9/2**	**Sun 25/10/26**	**Tue 25/9/2**	**Sun 25/10/26**	**0 days**		
91	TTA Implementation	4 days	Tue 25/9/2	Fri 25/9/5	Tue 25/9/2	Fri 25/9/5	Tue 25/9/2	Fri 25/9/5	0 days	0	88
92	Breaking Ground	10 days	Thu 25/9/4	Sat 25/9/13	Thu 25/9/4	Sat 25/9/13	Thu 25/9/4	Sat 25/9/13	0 days	1	91FS-2 days
93	Excavation and Lateral Support	12 days	Fri 25/9/12	Tue 25/9/23	Fri 25/9/12	Tue 25/9/23	Fri 25/9/12	Tue 25/9/23	0 days	2	92FS-2 days
94	Drain Laying	11 days	Mon 25/9/22	Thu 25/10/2	Mon 25/9/22	Thu 25/10/2	Mon 25/9/22	Thu 25/10/2	0 days	2	93FS-2 days
95	Bedding and Backfilling	8 days	Wed 25/10/1	Wed 25/10/8	Wed 25/10/1	Wed 25/10/8	Wed 25/10/1	Wed 25/10/8	0 days	0	94FS-2 days
96	Manhole Construction	10 days	Tue 25/10/7	Thu 25/10/16	Tue 25/10/7	Thu 25/10/16	Tue 25/10/7	Thu 25/10/16	0 days	1	95FS-2 days
97	Reinstatement	8 days	Fri 25/10/17	Fri 25/10/24	Fri 25/10/17	Fri 25/10/24	Fri 25/10/17	Fri 25/10/24	0 days	0	96
98	TTA Removal	2 days	Sat 25/10/25	Sun 25/10/26	Sat 25/10/25	Sun 25/10/26	Sat 25/10/25	Sun 25/10/26	0 days	0	97
99	**Stage 2**	**52 days**	**Mon 25/10/27**	**Wed 25/12/17**	**##########**	**Wed 25/12/17**	**##########**	**Wed 25/12/17**	**0 days**		
100	TTA Implementation	4 days	Mon 25/10/27	Thu 25/10/30	Mon 25/10/27	Thu 25/10/30	Mon 25/10/27	Thu 25/10/30	0 days	0	98
101	Breaking Ground	10 days	Wed 25/10/29	Fri 25/11/7	Wed 25/10/29	Fri 25/11/7	Wed 25/10/29	Fri 25/11/7	0 days	0	100FS-2 days
102	Excavation and Lateral Support	11 days	Thu 25/11/6	Sun 25/11/16	Thu 25/11/6	Sun 25/11/16	Thu 25/11/6	Sun 25/11/16	0 days	2	101FS-2 days
103	Drain Laying	9 days	Sat 25/11/15	Sun 25/11/23	Sat 25/11/15	Sun 25/11/23	Sat 25/11/15	Sun 25/11/23	0 days	2	102FS-2 days
104	Bedding and Backfilling	8 days	Sat 25/11/22	Sat 25/11/29	Sat 25/11/22	Sat 25/11/29	Sat 25/11/22	Sat 25/11/29	0 days	0	103FS-2 days
105	Manhole Construction	10 days	Fri 25/11/28	Sun 25/12/7	Fri 25/11/28	Sun 25/12/7	Fri 25/11/28	Sun 25/12/7	0 days	0	104FS-2 days
106	Reinstatement	8 days	Mon 25/12/8	Mon 25/12/15	Mon 25/12/8	Mon 25/12/15	Mon 25/12/8	Mon 25/12/15	0 days	0	105
107	TTA Removal	2 days	Tue 25/12/16	Wed 25/12/17	Tue 25/12/16	Wed 25/12/17	Tue 25/12/16	Wed 25/12/17	0 days	0	106
108	CCTV inspection	20 days	Thu 25/12/18	Tue 26/1/6	Thu 25/12/18	Tue 26/1/6	Thu 25/12/18	Tue 26/1/6	0 days	0	107
109	Reinstatement	20 days	Wed 26/1/7	Mon 26/1/26	Wed 26/1/7	Mon 26/1/26	Wed 26/1/7	Mon 26/1/26	0 days	0	108
110											
111	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
112	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
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**	**756 days**	**Tue 23/9/12**	**Mon 25/10/6**	**Tue 23/9/12**	**Mon 25/10/6**	**Tue 23/9/12**	**Tue 25/10/7**	**0 days**		
115	Prepare and Accept Temp. Works Design and Method Statement [A]	742 days	Tue 23/9/26	Mon 25/10/6	Tue 23/9/26	Mon 25/10/6	Wed 23/9/27	Tue 25/10/7	1 day	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	Sun 24/3/3	Thu 24/4/11	9 days		116
118	Initial Survey [A]	592 days	Fri 24/2/23	Mon 25/10/6	Fri 24/2/23	Mon 25/10/6	Sat 24/2/24	Tue 25/10/7	1 day	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	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
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]	150 days	Sun 24/8/11	Fri 24/3/15	Sun 24/8/11	Thu 25/4/3	Sat 25/8/30	384 days	0	119
124	UU detection	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
125	Site Clearance	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	122,120,117
126	**Drain Laying Works (West)**	**361 days**	**Fri 24/5/10**	**Mon 25/5/5**	**Fri 24/5/10**	**Mon 25/5/5**	**Fri 24/5/10**	**Mon 26/1/26**	**0 days**		
127	**SHT.A01~SHT.A02,1500PC,B,L=8.39,D=3.6**	**28 days**	**Fri 24/5/10**	**Thu 24/6/6**	**Fri 24/5/10**	**Thu 24/6/6**	**Fri 24/5/10**	**Thu 24/6/6**	**0 days**		
128	TTA implementation	4 days	Fri 24/5/10	Mon 24/5/13	Fri 24/5/10	Mon 24/5/13	Fri 24/5/10	Mon 24/5/13	0 days	0	125,124,119
129	Breaking pavement	5 days	Sun 24/5/12	Thu 24/5/16	Sun 24/5/12	Thu 24/5/16	Sun 24/5/12	Thu 24/5/16	0 days	0	128FS-2 days
130	Excavation and Lateral Support	5 days	Wed 24/5/15	Sun 24/5/19	Wed 24/5/15	Sun 24/5/19	Wed 24/5/15	Sun 24/5/19	0 days	0	129FS-2 days
131	Drain Laying	5 days	Sat 24/5/18	Wed 24/5/22	Sat 24/5/18	Wed 24/5/22	Sat 24/5/18	Wed 24/5/22	0 days	0	130FS-2 days
132	Bedding and Backfilling	6 days	Tue 24/5/21	Sun 24/5/26	Tue 24/5/21	Sun 24/5/26	Tue 24/5/21	Sun 24/5/26	0 days	0	131FS-2 days
133	Manhole construction	7 days	Sat 24/5/25	Fri 24/5/31	Sat 24/5/25	Fri 24/5/31	Sat 24/5/25	Fri 24/5/31	0 days	0	132FS-2 days
134	Reinstatement	5 days	Sat 24/6/1	Wed 24/6/5	Sat 24/6/1	Wed 24/6/5	Sat 24/6/1	Wed 24/6/5	0 days	0	133
135	TTA removal	1 day	Thu 24/6/6	Thu 24/6/6	Thu 24/6/6	Thu 24/6/6	Thu 24/6/6	Thu 24/6/6	0 days	0	134
136	**SHT.A1A~SHT.A01,1200PC,B,L=7.675,D=2.14**	**30 days**	**Fri 24/6/7**	**Sat 24/7/6**	**Fri 24/6/7**	**Sat 24/7/6**	**Fri 24/6/7**	**Sat 24/7/6**	**0 days**		
137	TTA implementation	4 days	Fri 24/6/7	Mon 24/6/10	Fri 24/6/7	Mon 24/6/10	Fri 24/6/7	Mon 24/6/10	0 days	0	135
138	Breaking pavement	5 days	Sun 24/6/9	Thu 24/6/13	Sun 24/6/9	Thu 24/6/13	Sun 24/6/9	Thu 24/6/13	0 days	0	137FS-2 days
139	Excavation and Lateral Support	5 days	Wed 24/6/12	Sun 24/6/16	Wed 24/6/12	Sun 24/6/16	Wed 24/6/12	Sun 24/6/16	0 days	0	138FS-2 days
140	Manhole bedding construction	7 days	Sat 24/6/15	Fri 24/6/21	Sat 24/6/15	Fri 24/6/21	Sat 24/6/15	Fri 24/6/21	0 days	0	139FS-2 days
141	Drain Laying	6 days	Thu 24/6/20	Tue 24/6/25	Thu 24/6/20	Tue 24/6/25	Thu 24/6/20	Tue 24/6/25	0 days	0	140FS-2 days
142	Manhole construction	7 days	Mon 24/6/24	Sun 24/6/30	Mon 24/6/24	Sun 24/6/30	Mon 24/6/24	Sun 24/6/30	0 days	0	141FS-2 days
143	Reinstatement	5 days	Mon 24/7/1	Fri 24/7/5	Mon 24/7/1	Fri 24/7/5	Mon 24/7/1	Fri 24/7/5	0 days	0	142
144	TTA removal	1 day	Sat 24/7/6	Sat 24/7/6	Sat 24/7/6	Sat 24/7/6	Sat 24/7/6	Sat 24/7/6	0 days	0	143
145	Connection of ex. Pipe to SHT.A01	28 days	Sun 24/7/7	Sat 24/8/3	Sun 24/7/7	Sat 24/8/3	Tue 25/12/30	Mon 26/1/26	541 days	0	144
146	Temporary decking over ex. UC	28 days	Sun 24/7/7	Sat 24/8/3	Sun 24/7/7	Sat 24/8/3	Sun 24/7/7	Sat 24/8/3	0 days	0	144
147	**SHT.CP1~SHT.A1A,550PC,B,L=4.16,D=2.06**	**27 days**	**Sun 24/7/21**	**Fri 24/8/16**	**Sun 24/7/21**	**Fri 24/8/16**	**Sun 24/7/21**	**Fri 24/8/16**	**0 days**		
148	TTA implementation	3 days	Sun 24/7/21	Tue 24/7/23	Sun 24/7/21	Tue 24/7/23	Sun 24/7/21	Tue 24/7/23	0 days	0	146FS-14 days
149	Breaking pavement	5 days	Mon 24/7/22	Fri 24/7/26	Mon 24/7/22	Fri 24/7/26	Mon 24/7/22	Fri 24/7/26	0 days	0	148FS-2 days
150	Excavation and Lateral Support	5 days	Thu 24/7/25	Mon 24/7/29	Thu 24/7/25	Mon 24/7/29	Thu 24/7/25	Mon 24/7/29	0 days	0	149FS-2 days
151	Manhole bedding construction	7 days	Sun 24/7/28	Sat 24/8/3	Sun 24/7/28	Sat 24/8/3	Sun 24/7/28	Sat 24/8/3	0 days	0	150FS-2 days

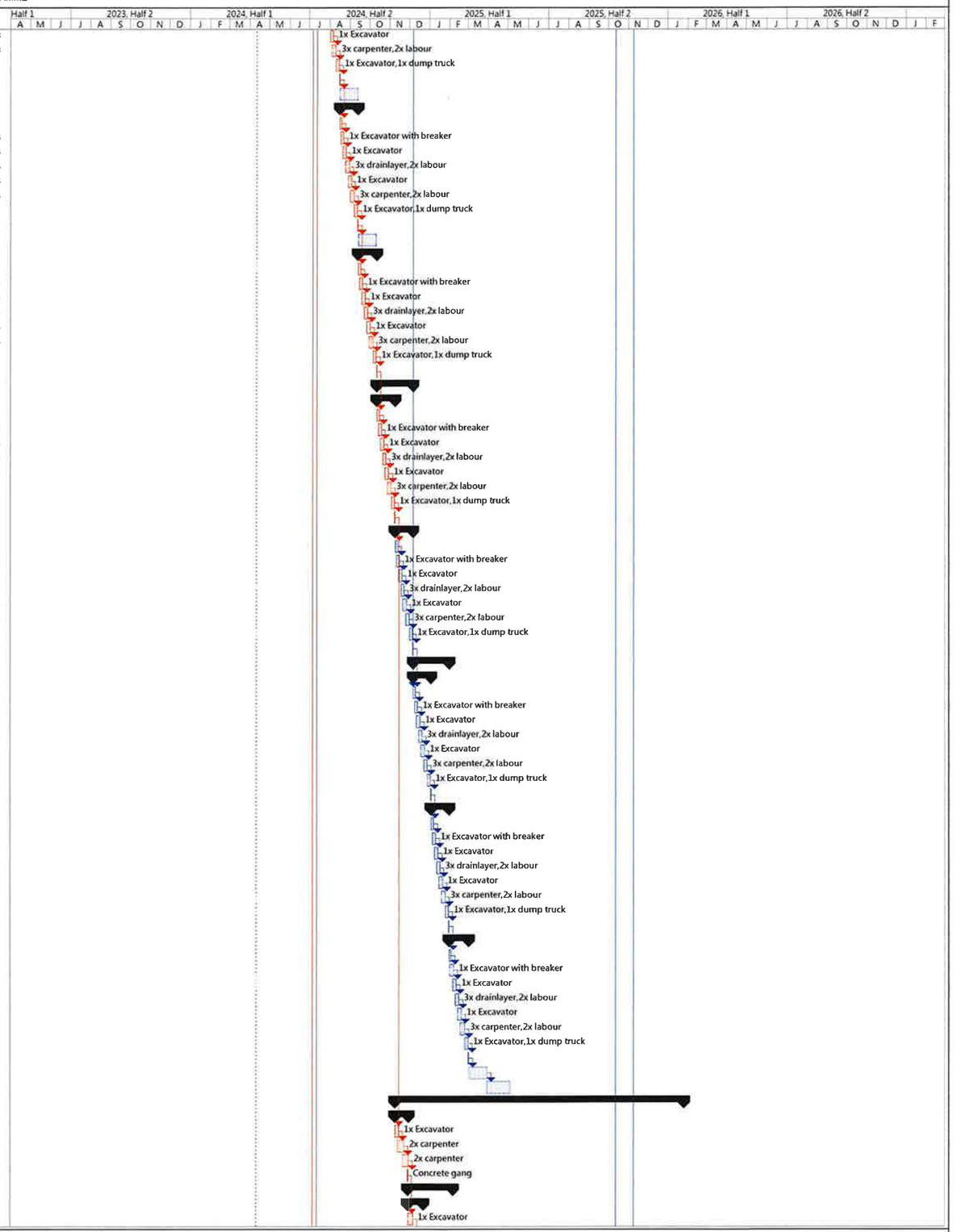


Revision.: 7.0 Date: 31 March 2024

´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}

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
152	Drain Laying	5 days	Fri 24/8/2	Tue 24/8/6	Fri 24/8/2	Tue 24/8/6	Fri 24/8/2	Tue 24/8/6	0 days	0	151FS-2 days
153	Manhole construction	6 days	Mon 24/8/5	Sat 24/8/10	Mon 24/8/5	Sat 24/8/10	Mon 24/8/5	Sat 24/8/10	0 days	0	152FS-2 days
154	Reinstatement	5 days	Sun 24/8/11	Thu 24/8/15	Sun 24/8/11	Thu 24/8/15	Sun 24/8/11	Thu 24/8/15	0 days	0	153
155	TTA removal	1 day	Fri 24/8/16	Fri 24/8/16	Fri 24/8/16	Fri 24/8/16	Fri 24/8/16	Fri 24/8/16	0 days	0	154
156	Connection of ex. 550pipe to SHT.CP1	28 days	Sat 24/8/17	Fri 24/9/13	Sat 24/8/17	Fri 24/9/13	Tue 25/12/30	Mon 26/1/26	500 days	0	155
157	**SHT.B04~SHT.A1A,900PC,B,L=13.155D=2.06**	**28 days**	**Sat 24/8/17**	**Fri 24/9/13**	**Sat 24/8/17**	**Fri 24/9/13**	**Sat 24/8/17**	**Fri 24/9/13**	**0 days**		
158	TTA implementation	3 days	Sat 24/8/17	Mon 24/8/19	Sat 24/8/17	Mon 24/8/19	Sat 24/8/17	Mon 24/8/19	0 days	0	155
159	Breaking pavement	5 days	Sun 24/8/18	Thu 24/8/22	Sun 24/8/18	Thu 24/8/22	Sun 24/8/18	Thu 24/8/22	0 days	0	158FS-2 days
160	Excavation and Lateral Support	6 days	Wed 24/8/21	Mon 24/8/26	Wed 24/8/21	Mon 24/8/26	Wed 24/8/21	Mon 24/8/26	0 days	0	159FS-2 days
161	Manhole bedding construction	7 days	Sun 24/8/25	Sat 24/8/31	Sun 24/8/25	Sat 24/8/31	Sun 24/8/25	Sat 24/8/31	0 days	0	160FS-2 days
162	Drain Laying	5 days	Fri 24/8/30	Tue 24/9/3	Fri 24/8/30	Tue 24/9/3	Fri 24/8/30	Tue 24/9/3	0 days	0	161FS-2 days
163	Manhole construction	6 days	Mon 24/9/2	Sat 24/9/7	Mon 24/9/2	Sat 24/9/7	Mon 24/9/2	Sat 24/9/7	0 days	0	162FS-2 days
164	Reinstatement	5 days	Sun 24/9/8	Thu 24/9/12	Sun 24/9/8	Thu 24/9/12	Sun 24/9/8	Thu 24/9/12	0 days	0	163
165	TTA removal	1 day	Fri 24/9/13	Fri 24/9/13	Fri 24/9/13	Fri 24/9/13	Fri 24/9/13	Fri 24/9/13	0 days	0	164
166	Connection of ex. UC to SHT.A1A	28 days	Sat 24/9/14	Fri 24/10/11	Sat 24/9/14	Fri 24/10/11	Tue 25/12/30	Mon 26/1/26	472 days	0	165
167	**SHT.B03~SHT.B04,900PC,B,L=21,D=1.97**	**29 days**	**Sat 24/9/14**	**Sat 24/10/12**	**Sat 24/9/14**	**Sat 24/10/12**	**Sat 24/9/14**	**Sat 24/10/12**	**0 days**		
168	TTA implementation	4 days	Sat 24/9/14	Tue 24/9/17	Sat 24/9/14	Tue 24/9/17	Sat 24/9/14	Tue 24/9/17	0 days	0	165
169	Breaking pavement	5 days	Mon 24/9/16	Fri 24/9/20	Mon 24/9/16	Fri 24/9/20	Mon 24/9/16	Fri 24/9/20	0 days	0	168FS-2 days
170	Excavation and Lateral Support	6 days	Thu 24/9/19	Tue 24/9/24	Thu 24/9/19	Tue 24/9/24	Thu 24/9/19	Tue 24/9/24	0 days	0	169FS-2 days
171	Manhole bedding construction	6 days	Mon 24/9/23	Sat 24/9/28	Mon 24/9/23	Sat 24/9/28	Mon 24/9/23	Sat 24/9/28	0 days	0	170FS-2 days
172	Drain Laying	6 days	Fri 24/9/27	Wed 24/10/2	Fri 24/9/27	Wed 24/10/2	Fri 24/9/27	Wed 24/10/2	0 days	0	171FS-2 days
173	Manhole construction	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	172FS-2 days
174	Reinstatement	5 days	Mon 24/10/7	Fri 24/10/11	Mon 24/10/7	Fri 24/10/11	Mon 24/10/7	Fri 24/10/11	0 days	0	173
175	TTA removal	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	174
176	**SHT.B02~SHT.B03,900PC,B,L=36.94,D=1.72**	**56 days**	**Sun 24/10/13**	**Sat 24/12/7**	**Sun 24/10/13**	**Sat 24/12/7**	**Sun 24/10/13**	**Sat 25/8/30**	**0 days**		
177	**Stage 1**	**28 days**	**Sun 24/10/13**	**Sat 24/11/9**	**Sun 24/10/13**	**Sat 24/11/9**	**Sun 24/10/13**	**Sat 24/11/9**	**0 days**		
178	TTA implementation	4 days	Sun 24/10/13	Wed 24/10/16	Sun 24/10/13	Wed 24/10/16	Sun 24/10/13	Wed 24/10/16	0 days	0	175
179	Breaking pavement	5 days	Tue 24/10/15	Sat 24/10/19	Tue 24/10/15	Sat 24/10/19	Tue 24/10/15	Sat 24/10/19	0 days	0	178FS-2 days
180	Excavation and Lateral Support	6 days	Fri 24/10/18	Wed 24/10/23	Fri 24/10/18	Wed 24/10/23	Fri 24/10/18	Wed 24/10/23	0 days	0	179FS-2 days
181	Manhole bedding construction	5 days	Tue 24/10/22	Sat 24/10/26	Tue 24/10/22	Sat 24/10/26	Tue 24/10/22	Sat 24/10/26	0 days	0	180FS-2 days
182	Drain Laying	6 days	Fri 24/10/25	Wed 24/10/30	Fri 24/10/25	Wed 24/10/30	Fri 24/10/25	Wed 24/10/30	0 days	0	181FS-2 days
183	Manhole construction	6 days	Tue 24/10/29	Sun 24/11/3	Tue 24/10/29	Sun 24/11/3	Tue 24/10/29	Sun 24/11/3	0 days	0	182FS-2 days
184	Reinstatement	5 days	Mon 24/11/4	Fri 24/11/8	Mon 24/11/4	Fri 24/11/8	Mon 24/11/4	Fri 24/11/8	0 days	0	183
185	TTA removal	1 day	Sat 24/11/9	Sat 24/11/9	Sat 24/11/9	Sat 24/11/9	Sat 24/11/9	Sat 24/11/9	0 days	0	184
186	**Stage 2**	**28 days**	**Sun 24/11/10**	**Sat 24/12/7**	**Sun 24/11/10**	**Sat 24/12/7**	**Sun 25/8/3**	**Sat 25/8/30**	**266 days**		
187	TTA implementation	4 days	Sun 24/11/10	Wed 24/11/13	Sun 24/11/10	Wed 24/11/13	Sun 25/8/3	Wed 25/8/6	266 days	0	185
188	Breaking pavement	5 days	Tue 24/11/12	Sat 24/11/16	Tue 24/11/12	Sat 24/11/16	Tue 25/8/5	Sat 25/8/9	266 days	0	187FS-2 days
189	Excavation and Lateral Support	6 days	Fri 24/11/15	Wed 24/11/20	Fri 24/11/15	Wed 24/11/20	Fri 25/8/8	Wed 25/8/13	266 days	0	188FS-2 days
190	Manhole bedding construction	5 days	Tue 24/11/19	Sat 24/11/23	Tue 24/11/19	Sat 24/11/23	Tue 25/8/12	Sat 25/8/16	266 days	0	189FS-2 days
191	Drain Laying	6 days	Fri 24/11/22	Wed 24/11/27	Fri 24/11/22	Wed 24/11/27	Fri 25/8/15	Wed 25/8/20	266 days	0	190FS-2 days
192	Manhole construction	6 days	Tue 24/11/26	Sun 24/12/1	Tue 24/11/26	Sun 24/12/1	Tue 25/8/19	Sun 25/8/24	266 days	0	191FS-2 days
193	Reinstatement	5 days	Mon 24/12/2	Fri 24/12/6	Mon 24/12/2	Fri 24/12/6	Mon 25/8/25	Fri 25/8/29	266 days	0	192
194	TTA removal	1 day	Sat 24/12/7	Sat 24/12/7	Sat 24/12/7	Sat 24/12/7	Sat 25/8/30	Sat 25/8/30	266 days	0	193
195	**SHT.B01~SHT.B02,900PC,B,L=61.6,D=1.59**	**56 days**	**Sun 24/12/8**	**Sat 25/2/1**	**Sun 24/12/8**	**Sat 25/2/1**	**Sun 25/8/31**	**Sat 25/10/25**	**266 days**		
196	**Stage 1**	**28 days**	**Sun 24/12/8**	**Sat 25/1/4**	**Sun 24/12/8**	**Sat 25/1/4**	**Sun 25/8/31**	**Sat 25/9/27**	**266 days**		
197	TTA implementation	4 days	Sun 24/12/8	Wed 24/12/11	Sun 24/12/8	Wed 24/12/11	Sun 25/8/31	Wed 25/9/3	266 days	0	123,194
198	Breaking pavement	5 days	Tue 24/12/10	Sat 24/12/14	Tue 24/12/10	Sat 24/12/14	Tue 25/9/2	Sat 25/9/6	266 days	0	197FS-2 days
199	Excavation and Lateral Support	6 days	Fri 24/12/13	Wed 24/12/18	Fri 24/12/13	Wed 24/12/18	Fri 25/9/5	Wed 25/9/10	266 days	0	198FS-2 days
200	Manhole bedding construction	5 days	Tue 24/12/17	Sat 24/12/21	Tue 24/12/17	Sat 24/12/21	Tue 25/9/9	Sat 25/9/13	266 days	0	199FS-2 days
201	Drain Laying	6 days	Fri 24/12/20	Wed 24/12/25	Fri 24/12/20	Wed 24/12/25	Fri 25/9/12	Wed 25/9/17	266 days	0	200FS-2 days
202	Manhole construction	6 days	Tue 24/12/24	Sun 24/12/29	Tue 24/12/24	Sun 24/12/29	Tue 25/9/16	Sun 25/9/21	266 days	0	201FS-2 days
203	Reinstatement	5 days	Mon 24/12/30	Fri 25/1/3	Mon 24/12/30	Fri 25/1/3	Mon 25/9/22	Fri 25/9/26	266 days	0	202
204	TTA removal	1 day	Sat 25/1/4	Sat 25/1/4	Sat 25/1/4	Sat 25/1/4	Sat 25/9/27	Sat 25/9/27	266 days	0	203
205	**Stage 2**	**28 days**	**Sun 25/1/5**	**Sat 25/2/1**	**Sun 25/1/5**	**Sat 25/2/1**	**Sun 25/9/28**	**Sat 25/10/25**	**266 days**		
206	TTA implementation	4 days	Sun 25/1/5	Wed 25/1/8	Sun 25/1/5	Wed 25/1/8	Sun 25/9/28	Wed 25/10/1	266 days	0	204
207	Breaking pavement	5 days	Tue 25/1/7	Sat 25/1/11	Tue 25/1/7	Sat 25/1/11	Tue 25/9/30	Sat 25/10/4	266 days	0	206FS-2 days
208	Excavation and Lateral Support	6 days	Fri 25/1/10	Wed 25/1/15	Fri 25/1/10	Wed 25/1/15	Fri 25/10/3	Wed 25/10/8	266 days	0	207FS-2 days
209	Manhole bedding construction	5 days	Tue 25/1/14	Sat 25/1/18	Tue 25/1/14	Sat 25/1/18	Tue 25/10/7	Sat 25/10/11	266 days	0	208FS-2 days
210	Drain Laying	6 days	Fri 25/1/17	Wed 25/1/22	Fri 25/1/17	Wed 25/1/22	Fri 25/10/10	Wed 25/10/15	266 days	0	209FS-2 days
211	Manhole construction	6 days	Tue 25/1/21	Sun 25/1/26	Tue 25/1/21	Sun 25/1/26	Tue 25/10/14	Sun 25/10/19	266 days	0	210FS-2 days
212	Reinstatement	5 days	Mon 25/1/27	Fri 25/1/31	Mon 25/1/27	Fri 25/1/31	Mon 25/10/20	Fri 25/10/24	266 days	0	211
213	TTA removal	1 day	Sat 25/2/1	Sat 25/2/1	Sat 25/2/1	Sat 25/2/1	Sat 25/10/25	Sat 25/10/25	266 days	0	212
214	**SHT.CP2~SHT.B01,900PC,B,L=10.36,D=1.59**	**30 days**	**Sun 25/2/2**	**Mon 25/3/3**	**Sun 25/2/2**	**Mon 25/3/3**	**Sun 25/10/26**	**###########**	**266 days**		
215	TTA implementation	3 days	Sun 25/2/2	Tue 25/2/4	Sun 25/2/2	Tue 25/2/4	Sun 25/10/26	Tue 25/10/28	266 days	0	213
216	Breaking pavement	6 days	Mon 25/2/3	Sat 25/2/8	Mon 25/2/3	Sat 25/2/8	Mon 25/10/27	Sat 25/11/1	266 days	0	215FS-2 days
217	Excavation and Lateral Support	6 days	Fri 25/2/7	Wed 25/2/12	Fri 25/2/7	Wed 25/2/12	Fri 25/10/31	Wed 25/11/5	266 days	0	216FS-2 days
218	Manhole bedding construction	6 days	Tue 25/2/11	Sun 25/2/16	Tue 25/2/11	Sun 25/2/16	Tue 25/11/4	Sun 25/11/9	266 days	0	217FS-2 days
219	Drain Laying	6 days	Sat 25/2/15	Thu 25/2/20	Sat 25/2/15	Thu 25/2/20	Sat 25/11/8	Thu 25/11/13	266 days	0	218FS-2 days
220	Manhole construction	7 days	Wed 25/2/19	Tue 25/2/25	Wed 25/2/19	Tue 25/2/25	Wed 25/11/12	Tue 25/11/18	266 days	0	219FS-2 days
221	Reinstatement	5 days	Wed 25/2/26	Sun 25/3/2	Wed 25/2/26	Sun 25/3/2	Wed 25/11/19	Sun 25/11/23	266 days	0	220
222	TTA removal	1 day	Mon 25/3/3	Mon 25/3/3	Mon 25/3/3	Mon 25/3/3	Mon 25/11/24	Mon 25/11/24	266 days	0	221
223	CCTV inspection	28 days	Tue 25/3/4	Mon 25/3/31	Tue 25/3/4	Mon 25/3/31	Tue 25/11/25	Mon 25/12/22	266 days	0	222
224	Reinstatement	35 days	Tue 25/4/1	Mon 25/5/5	Tue 25/4/1	Mon 25/5/5	Tue 25/12/23	Mon 26/1/26	266 days	0	223
225	**U-Channel Works (West)**	**443 days**	**Sun 24/11/10**	**Mon 26/1/26**	**Sun 24/11/10**	**Mon 26/1/26**	**Sun 24/11/10**	**Mon 26/1/26**	**0 days**		
226	**SHT.CP2.5~SHT.CP2,300->900CU(G),L=11.4**	**21 days**	**Sun 24/11/10**	**Sat 24/11/30**	**Sun 24/11/10**	**Sat 24/11/30**	**Sun 24/11/10**	**Sat 24/11/30**	**0 days**		
227	Excavation and Lateral Support	6 days	Sun 24/11/10	Fri 24/11/15	Sun 24/11/10	Fri 24/11/15	Sun 24/11/10	Fri 24/11/15	0 days	0	185
228	Formwork Erection	10 days	Thu 24/11/14	Sat 24/11/23	Thu 24/11/14	Sat 24/11/23	Thu 24/11/14	Sat 24/11/23	0 days	0	227FS-2 days
229	Catchpit construcion	9 days	Fri 24/11/22	Sat 24/11/30	Fri 24/11/22	Sat 24/11/30	Fri 24/11/22	Sat 24/11/30	0 days	0	228FS-2 days
230	Concreting	1 day	Fri 24/11/29	Fri 24/11/29	Fri 24/11/29	Fri 24/11/29	Fri 24/11/29	Fri 24/11/29	0 days	0	229FS-2 days
231	**SHT.CP3~SHT.CP2.5,300->900CU(G),L=66.5**	**70 days**	**Sat 24/11/30**	**Fri 25/2/7**	**Sat 24/11/30**	**Fri 25/2/7**	**Sat 24/11/30**	**Fri 25/2/7**	**0 days**		
232	**Stage 1**	**24 days**	**Sat 24/11/30**	**Mon 24/12/23**	**Sat 24/11/30**	**Mon 24/12/23**	**Sat 24/11/30**	**###########**	**0 days**		
233	Excavation and Lateral Support	8 days	Sat 24/11/30	Sat 24/12/7	Sat 24/11/30	Sat 24/12/7	Sat 24/11/30	Sat 24/12/7	0 days	0	230

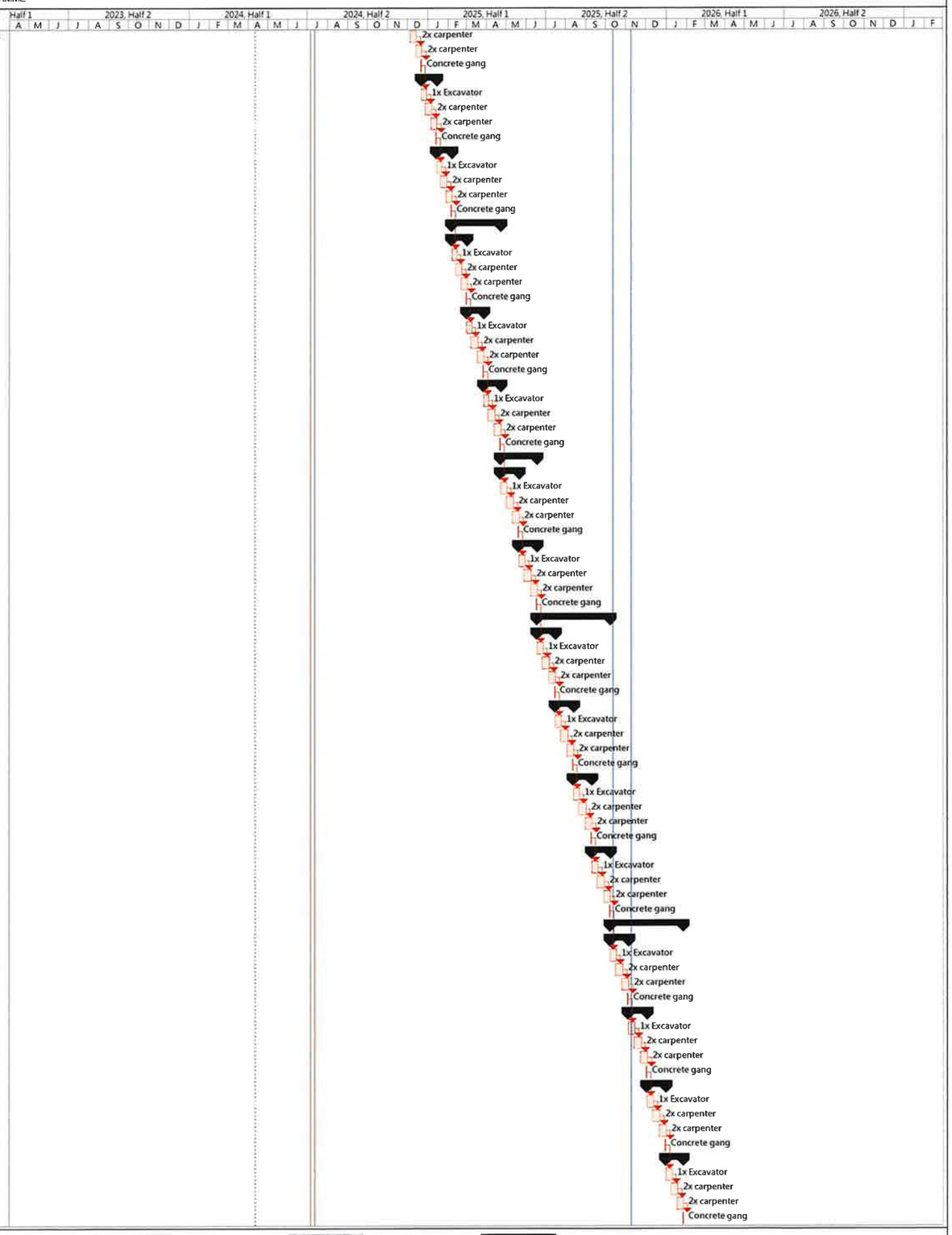


Revision : 7.0 Date: 31 March 2024

´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}

ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
234	Formwork Erection	10 days	Fri 24/12/6	Sun 24/12/15	Fri 24/12/6	Sun 24/12/15	Fri 24/12/6	Sun 24/12/15	0 days	0	233FS-2 days
235	Catchpit construcion	10 days	Sat 24/12/14	Mon 24/12/23	Sat 24/12/14	Mon 24/12/23	Sat 24/12/14	Mon 24/12/23	0 days	0	234FS-2 days
236	Concreting	1 day	Sun 24/12/22	Sun 24/12/22	Sun 24/12/22	Sun 24/12/22	Sun 24/12/22	Sun 24/12/22	0 days	0	235FS-2 days
237	**Stage 2**	**24 days**	**Mon 24/12/23**	**Wed 25/1/15**	##########	**Wed 25/1/15**	##########	**Wed 25/1/15**	**0 days**		
238	Excavation and Lateral Support	8 days	Mon 24/12/23	Mon 24/12/30	Mon 24/12/23	Mon 24/12/30	Mon 24/12/23	Mon 24/12/30	0 days	0	236
239	Formwork Erection	10 days	Sun 24/12/29	Tue 25/1/7	Sun 24/12/29	Tue 25/1/7	Sun 24/12/29	Tue 25/1/7	0 days	0	238FS-2 days
240	Catchpit construcion	10 days	Mon 25/1/6	Wed 25/1/15	Mon 25/1/6	Wed 25/1/15	Mon 25/1/6	Wed 25/1/15	0 days	0	239FS-2 days
241	Concreting	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	240FS-2 days
242	**Stage 3**	**24 days**	**Wed 25/1/15**	**Fri 25/2/7**	**Wed 25/1/15**	**Fri 25/2/7**	**Wed 25/1/15**	**Fri 25/2/7**	**0 days**		
243	Excavation and Lateral Support	8 days	Wed 25/1/15	Wed 25/1/22	Wed 25/1/15	Wed 25/1/22	Wed 25/1/15	Wed 25/1/22	0 days	0	241
244	Formwork Erection	10 days	Tue 25/1/21	Thu 25/1/30	Tue 25/1/21	Thu 25/1/30	Tue 25/1/21	Thu 25/1/30	0 days	0	243FS-2 days
245	Catchpit construcion	10 days	Wed 25/1/29	Fri 25/2/7	Wed 25/1/29	Fri 25/2/7	Wed 25/1/29	Fri 25/2/7	0 days	0	244FS-2 days
246	Concreting	1 day	Thu 25/2/6	Thu 25/2/6	Thu 25/2/6	Thu 25/2/6	Thu 25/2/6	Thu 25/2/6	0 days	0	245FS-2 days
247	**SHT.CP3.3~SHT.CP3,300->450CU(G),L=54.5**	**76 days**	**Fri 25/2/7**	**Wed 25/4/23**	**Fri 25/2/7**	**Wed 25/4/23**	**Fri 25/2/7**	**Wed 25/4/23**	**0 days**		
248	**Stage 1**	**24 days**	**Fri 25/2/7**	**Sun 25/3/2**	**Fri 25/2/7**	**Sun 25/3/2**	**Fri 25/2/7**	**Sun 25/3/2**	**0 days**		
249	Excavation and Lateral Support	8 days	Fri 25/2/7	Fri 25/2/14	Fri 25/2/7	Fri 25/2/14	Fri 25/2/7	Fri 25/2/14	0 days	0	246
250	Formwork Erection	10 days	Thu 25/2/13	Sat 25/2/22	Thu 25/2/13	Sat 25/2/22	Thu 25/2/13	Sat 25/2/22	0 days	0	249FS-2 days
251	Catchpit construcion	10 days	Fri 25/2/21	Sun 25/3/2	Fri 25/2/21	Sun 25/3/2	Fri 25/2/21	Sun 25/3/2	0 days	0	250FS-2 days
252	Concreting	1 day	Sat 25/3/1	Sat 25/3/1	Sat 25/3/1	Sat 25/3/1	Sat 25/3/1	Sat 25/3/1	0 days	0	251FS-2 days
253	**Stage 2**	**27 days**	**Sun 25/3/2**	**Fri 25/3/28**	**Sun 25/3/2**	**Fri 25/3/28**	**Sun 25/3/2**	**Fri 25/3/28**	**0 days**		
254	Excavation and Lateral Support	8 days	Sun 25/3/2	Sun 25/3/9	Sun 25/3/2	Sun 25/3/9	Sun 25/3/2	Sun 25/3/9	0 days	0	252
255	Formwork Erection	12 days	Sat 25/3/8	Wed 25/3/19	Sat 25/3/8	Wed 25/3/19	Sat 25/3/8	Wed 25/3/19	0 days	0	254FS-2 days
256	Catchpit construcion	11 days	Tue 25/3/18	Fri 25/3/28	Tue 25/3/18	Fri 25/3/28	Tue 25/3/18	Fri 25/3/28	0 days	0	255FS-2 days
257	Concreting	1 day	Thu 25/3/27	Thu 25/3/27	Thu 25/3/27	Thu 25/3/27	Thu 25/3/27	Thu 25/3/27	0 days	0	256FS-2 days
258	**Stage 3**	**27 days**	**Fri 25/3/28**	**Wed 25/4/23**	**Fri 25/3/28**	**Wed 25/4/23**	**Fri 25/3/28**	**Wed 25/4/23**	**0 days**		
259	Excavation and Lateral Support	8 days	Fri 25/3/28	Fri 25/4/4	Fri 25/3/28	Fri 25/4/4	Fri 25/3/28	Fri 25/4/4	0 days	0	257
260	Formwork Erection	12 days	Thu 25/4/3	Mon 25/4/14	Thu 25/4/3	Mon 25/4/14	Thu 25/4/3	Mon 25/4/14	0 days	0	259FS-2 days
261	Catchpit construcion	11 days	Sun 25/4/13	Wed 25/4/23	Sun 25/4/13	Wed 25/4/23	Sun 25/4/13	Wed 25/4/23	0 days	0	260FS-2 days
262	Concreting	1 day	Tue 25/4/22	Tue 25/4/22	Tue 25/4/22	Tue 25/4/22	Tue 25/4/22	Tue 25/4/22	0 days	0	261FS-2 days
263	**SHT.CP3.5~SHT.CP3.3,300->450CU(G),L=43.3**	**57 days**	**Wed 25/4/23**	**Wed 25/6/18**	**Wed 25/4/23**	**Wed 25/6/18**	**Wed 25/4/23**	**Wed 25/6/18**	**0 days**		
264	**Stage 1**	**29 days**	**Wed 25/4/23**	**Wed 25/5/21**	**Wed 25/4/23**	**Wed 25/5/21**	**Wed 25/4/23**	**Wed 25/5/21**	**0 days**		
265	Excavation and Lateral Support	10 days	Wed 25/4/23	Fri 25/5/2	Wed 25/4/23	Fri 25/5/2	Wed 25/4/23	Fri 25/5/2	0 days	0	262
266	Formwork Erection	12 days	Thu 25/5/1	Mon 25/5/12	Thu 25/5/1	Mon 25/5/12	Thu 25/5/1	Mon 25/5/12	0 days	0	265FS-2 days
267	Catchpit construcion	11 days	Sun 25/5/11	Wed 25/5/21	Sun 25/5/11	Wed 25/5/21	Sun 25/5/11	Wed 25/5/21	0 days	0	266FS-2 days
268	Concreting	1 day	Tue 25/5/20	Tue 25/5/20	Tue 25/5/20	Tue 25/5/20	Tue 25/5/20	Tue 25/5/20	0 days	0	267FS-2 days
269	**Stage 2**	**29 days**	**Wed 25/5/21**	**Wed 25/6/18**	**Wed 25/5/21**	**Wed 25/6/18**	**Wed 25/5/21**	**Wed 25/6/18**	**0 days**		
270	Excavation and Lateral Support	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	268
271	Formwork Erection	12 days	Thu 25/5/29	Mon 25/6/9	Thu 25/5/29	Mon 25/6/9	Thu 25/5/29	Mon 25/6/9	0 days	0	270FS-2 days
272	Catchpit construcion	11 days	Sun 25/6/8	Wed 25/6/18	Sun 25/6/8	Wed 25/6/18	Sun 25/6/8	Wed 25/6/18	0 days	0	271FS-2 days
273	Concreting	1 day	Tue 25/6/17	Tue 25/6/17	Tue 25/6/17	Tue 25/6/17	Tue 25/6/17	Tue 25/6/17	0 days	0	272FS-2 days
274	**End~SHT.CP3.5,300->450CU(G),L=107.7**	**113 days**	**Wed 25/6/18**	**Wed 25/10/8**	**Wed 25/6/18**	**Wed 25/10/8**	**Wed 25/6/18**	**Wed 25/10/8**	**0 days**		
275	**Stage 1**	**29 days**	**Wed 25/6/18**	**Wed 25/7/16**	**Wed 25/6/18**	**Wed 25/7/16**	**Wed 25/6/18**	**Wed 25/7/16**	**0 days**		
276	Excavation and Lateral Support	10 days	Wed 25/6/18	Fri 25/6/27	Wed 25/6/18	Fri 25/6/27	Wed 25/6/18	Fri 25/6/27	0 days	0	273
277	Formwork Erection	12 days	Thu 25/6/26	Mon 25/7/7	Thu 25/6/26	Mon 25/7/7	Thu 25/6/26	Mon 25/7/7	0 days	0	276FS-2 days
278	Catchpit construcion	11 days	Sun 25/7/6	Wed 25/7/16	Sun 25/7/6	Wed 25/7/16	Sun 25/7/6	Wed 25/7/16	0 days	0	277FS-2 days
279	Concreting	1 day	Tue 25/7/15	Tue 25/7/15	Tue 25/7/15	Tue 25/7/15	Tue 25/7/15	Tue 25/7/15	0 days	0	278FS-2 days
280	**Stage 2**	**29 days**	**Wed 25/7/16**	**Wed 25/8/13**	**Wed 25/7/16**	**Wed 25/8/13**	**Wed 25/7/16**	**Wed 25/8/13**	**0 days**		
281	Excavation and Lateral Support	10 days	Wed 25/7/16	Fri 25/7/25	Wed 25/7/16	Fri 25/7/25	Wed 25/7/16	Fri 25/7/25	0 days	0	279
282	Formwork Erection	12 days	Thu 25/7/24	Mon 25/8/4	Thu 25/7/24	Mon 25/8/4	Thu 25/7/24	Mon 25/8/4	0 days	0	281FS-2 days
283	Catchpit construcion	11 days	Sun 25/8/3	Wed 25/8/13	Sun 25/8/3	Wed 25/8/13	Sun 25/8/3	Wed 25/8/13	0 days	0	282FS-2 days
284	Concreting	1 day	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	Tue 25/8/12	0 days	0	283FS-2 days
285	**Stage 3**	**29 days**	**Wed 25/8/13**	**Wed 25/9/10**	**Wed 25/8/13**	**Wed 25/9/10**	**Wed 25/8/13**	**Wed 25/9/10**	**0 days**		
286	Excavation and Lateral Support	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	284
287	Formwork Erection	12 days	Thu 25/8/21	Mon 25/9/1	Thu 25/8/21	Mon 25/9/1	Thu 25/8/21	Mon 25/9/1	0 days	0	286FS-2 days
288	Catchpit construcion	11 days	Sun 25/8/31	Wed 25/9/10	Sun 25/8/31	Wed 25/9/10	Sun 25/8/31	Wed 25/9/10	0 days	0	287FS-2 days
289	Concreting	1 day	Tue 25/9/9	Tue 25/9/9	Tue 25/9/9	Tue 25/9/9	Tue 25/9/9	Tue 25/9/9	0 days	0	288FS-2 days
290	**Stage 4**	**29 days**	**Wed 25/9/10**	**Wed 25/10/8**	**Wed 25/9/10**	**Wed 25/10/8**	**Wed 25/9/10**	**Wed 25/10/8**	**0 days**		
291	Excavation and Lateral Support	10 days	Wed 25/9/10	Fri 25/9/19	Wed 25/9/10	Fri 25/9/19	Wed 25/9/10	Fri 25/9/19	0 days	0	289
292	Formwork Erection	12 days	Thu 25/9/18	Mon 25/9/29	Thu 25/9/18	Mon 25/9/29	Thu 25/9/18	Mon 25/9/29	0 days	0	291FS-2 days
293	Catchpit construcion	11 days	Sun 25/9/28	Wed 25/10/8	Sun 25/9/28	Wed 25/10/8	Sun 25/9/28	Wed 25/10/8	0 days	0	292FS-2 days
294	Concreting	1 day	Tue 25/10/7	Tue 25/10/7	Tue 25/10/7	Tue 25/10/7	Tue 25/10/7	Tue 25/10/7	0 days	0	293FS-2 days
295	**End~ex. UC,450CU(G),L=70**	**111 days**	**Wed 25/10/8**	**Mon 26/1/26**	**Wed 25/10/8**	**Mon 26/1/26**	**Wed 25/10/8**	**Mon 26/1/26**	**0 days**		
296	**Stage 1**	**29 days**	**Wed 25/10/8**	**Wed 25/11/5**	**Wed 25/10/8**	**Wed 25/11/5**	**Wed 25/10/8**	**Wed 25/11/5**	**0 days**		
297	Excavation and Lateral Support	10 days	Wed 25/10/8	Fri 25/10/17	Wed 25/10/8	Fri 25/10/17	Wed 25/10/8	Fri 25/10/17	0 days	0	294,115,118
298	Formwork Erection	12 days	Thu 25/10/16	Mon 25/10/27	Thu 25/10/16	Mon 25/10/27	Thu 25/10/16	Mon 25/10/27	0 days	0	297FS-2 days
299	Catchpit construcion	11 days	Sun 25/10/26	Wed 25/11/5	Sun 25/10/26	Wed 25/11/5	Sun 25/10/26	Wed 25/11/5	0 days	0	298FS-2 days
300	Concreting	1 day	Tue 25/11/4	Tue 25/11/4	Tue 25/11/4	Tue 25/11/4	Tue 25/11/4	Tue 25/11/4	0 days	0	299FS-2 days
301	**Stage 2**	**29 days**	**Wed 25/11/5**	**Wed 25/12/3**	**Wed 25/11/5**	**Wed 25/12/3**	**Wed 25/11/5**	**Wed 25/12/3**	**0 days**		
302	Excavation and Lateral Support	10 days	Wed 25/11/5	Fri 25/11/14	Wed 25/11/5	Fri 25/11/14	Wed 25/11/5	Fri 25/11/14	0 days	0	300
303	Formwork Erection	12 days	Thu 25/11/13	Mon 25/11/24	Thu 25/11/13	Mon 25/11/24	Thu 25/11/13	Mon 25/11/24	0 days	0	302FS-2 days
304	Catchpit construcion	11 days	Sun 25/11/23	Wed 25/12/3	Sun 25/11/23	Wed 25/12/3	Sun 25/11/23	Wed 25/12/3	0 days	0	303FS-2 days
305	Concreting	1 day	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	Tue 25/12/2	0 days	0	304FS-2 days
306	**Stage 3**	**29 days**	**Wed 25/12/3**	**Wed 25/12/31**	**Wed 25/12/3**	**Wed 25/12/31**	**Wed 25/12/3**	**Wed 25/12/31**	**0 days**		
307	Excavation and Lateral Support	10 days	Wed 25/12/3	Fri 25/12/12	Wed 25/12/3	Fri 25/12/12	Wed 25/12/3	Fri 25/12/12	0 days	0	305
308	Formwork Erection	12 days	Thu 25/12/11	Mon 25/12/22	Thu 25/12/11	Mon 25/12/22	Thu 25/12/11	Mon 25/12/22	0 days	0	307FS-2 days
309	Catchpit construcion	11 days	Sun 25/12/21	Wed 25/12/31	Sun 25/12/21	Wed 25/12/31	Sun 25/12/21	Wed 25/12/31	0 days	0	308FS-2 days
310	Concreting	1 day	Tue 25/12/30	Tue 25/12/30	Tue 25/12/30	Tue 25/12/30	Tue 25/12/30	Tue 25/12/30	0 days	0	309FS-2 days
311	**Stage 4**	**27 days**	**Wed 25/12/31**	**Mon 26/1/26**	**Wed 25/12/31**	**Mon 26/1/26**	**Wed 25/12/31**	**Mon 26/1/26**	**0 days**		
312	Excavation and Lateral Support	10 days	Wed 25/12/31	Fri 26/1/9	Wed 25/12/31	Fri 26/1/9	Wed 25/12/31	Fri 26/1/9	0 days	0	310
313	Formwork Erection	11 days	Thu 26/1/8	Sun 26/1/18	Thu 26/1/8	Sun 26/1/18	Thu 26/1/8	Sun 26/1/18	0 days	0	312FS-2 days
314	Catchpit construcion	10 days	Sat 26/1/17	Mon 26/1/26	Sat 26/1/17	Mon 26/1/26	Sat 26/1/17	Mon 26/1/26	0 days	0	313FS-2 days
315	Concreting	1 day	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	0 days	0	314FS-1 day

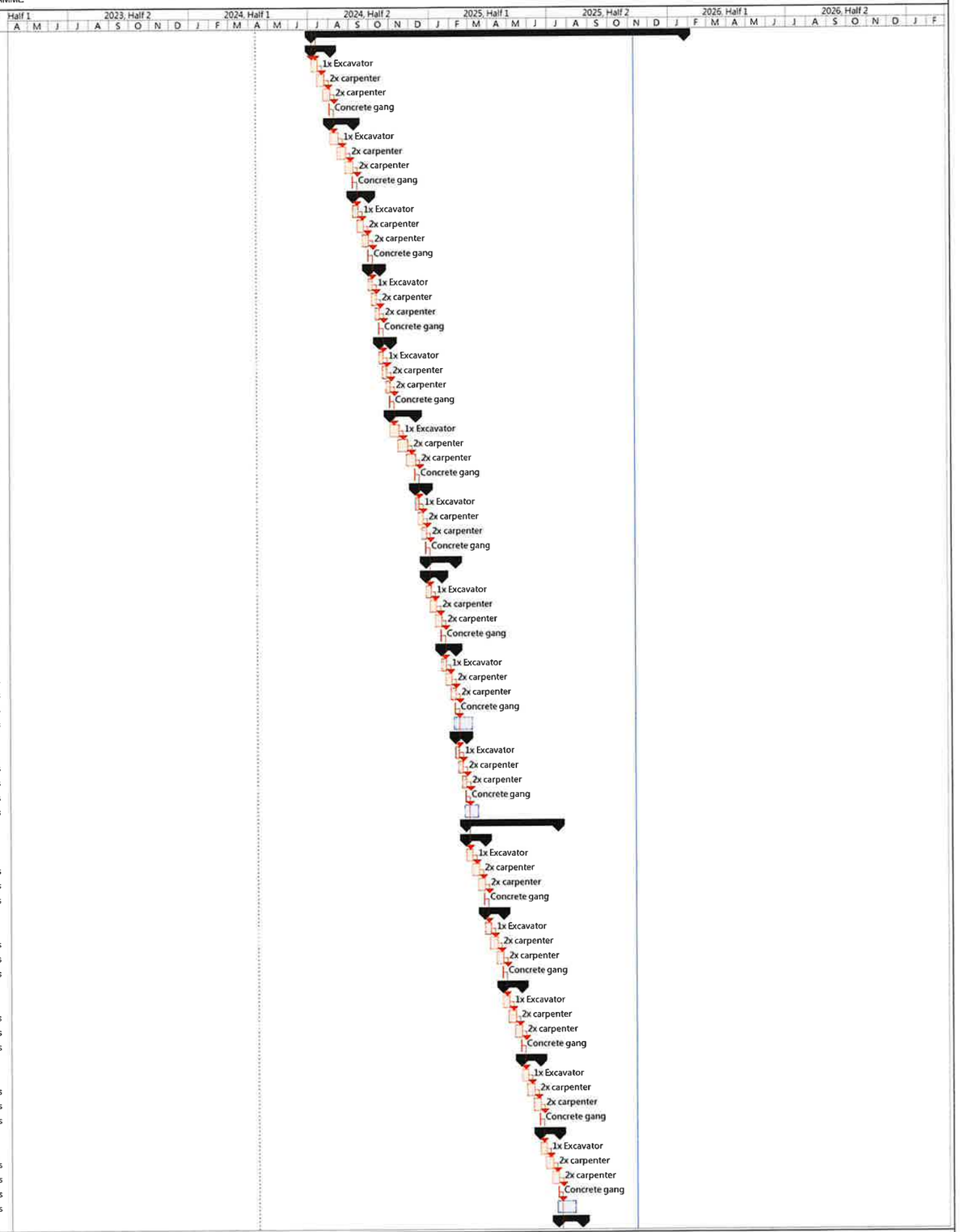


Revision.: 7.0 Date: 31 March 2024

´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}

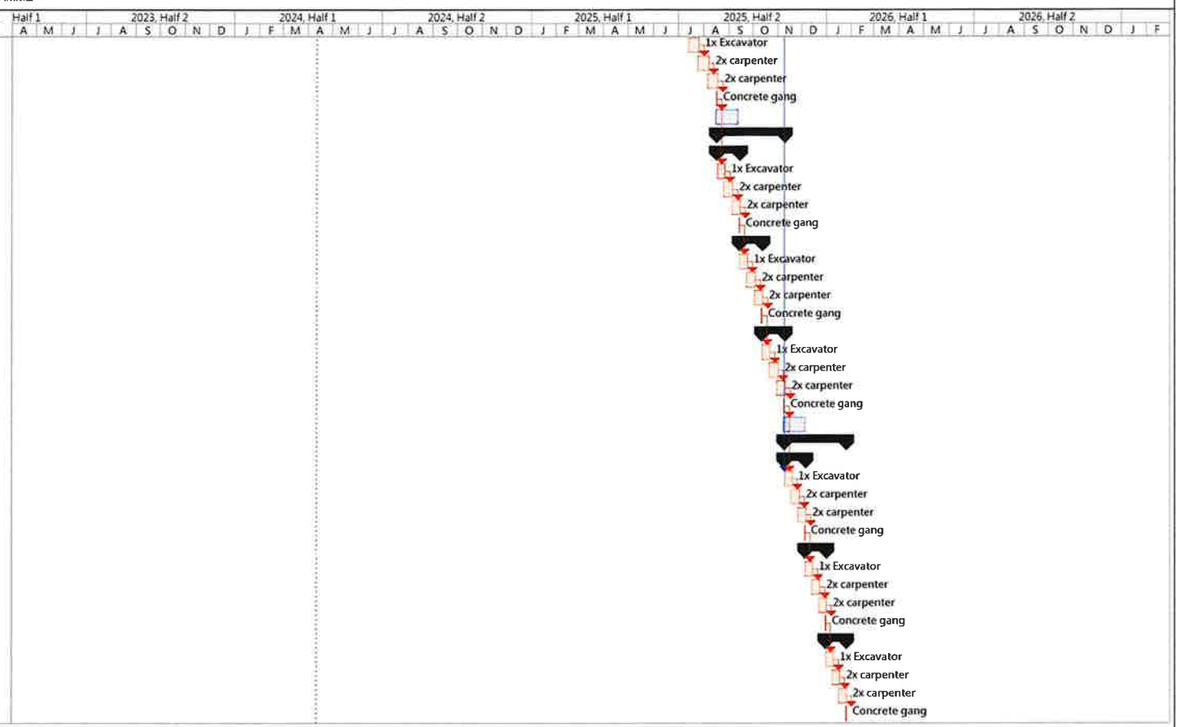
ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors
316	**U-Channel Works (East)**	**569 days**	**Sun 24/7/7**	**Mon 26/1/26**	**Sun 24/7/7**	**Mon 26/1/26**	**Sun 24/7/7**	**Mon 26/1/26**	**0 days**		
317	**SHT.CP11~SHT.CP10E,750CU(HD-G),L=19.8**	**29 days**	**Sun 24/7/7**	**Sun 24/8/4**	**Sun 24/7/7**	**Sun 24/8/4**	**Sun 24/7/7**	**Sun 24/8/4**	**0 days**		
318	Excavation and Lateral Support	10 days	Sun 24/7/7	Tue 24/7/16	Sun 24/7/7	Tue 24/7/16	Sun 24/7/7	Tue 24/7/16	0 days	0	125,144
319	Formwork Erection	12 days	Mon 24/7/15	Fri 24/7/26	Mon 24/7/15	Fri 24/7/26	Mon 24/7/15	Fri 24/7/26	0 days	0	318FS-2 days
320	Catchpit construcion	11 days	Thu 24/7/25	Sun 24/8/4	Thu 24/7/25	Sun 24/8/4	Thu 24/7/25	Sun 24/8/4	0 days	0	319FS-2 days
321	Concreting	1 day	Sat 24/8/3	Sat 24/8/3	Sat 24/8/3	Sat 24/8/3	Sat 24/8/3	Sat 24/8/3	0 days	0	320FS-2 days
322	**SHT.CP10E~SHT.CP10D,750CU(HD-G),L=23.7**	**36 days**	**Sun 24/8/4**	**Sun 24/9/8**	**Sun 24/8/4**	**Sun 24/9/8**	**Sun 24/8/4**	**Sun 24/9/8**	**0 days**		
323	Excavation and Lateral Support	13 days	Sun 24/8/4	Fri 24/8/16	Sun 24/8/4	Fri 24/8/16	Sun 24/8/4	Fri 24/8/16	0 days	0	321
324	Formwork Erection	14 days	Thu 24/8/15	Wed 24/8/28	Thu 24/8/15	Wed 24/8/28	Thu 24/8/15	Wed 24/8/28	0 days	0	323FS-2 days
325	Catchpit construcion	13 days	Tue 24/8/27	Sun 24/9/8	Tue 24/8/27	Sun 24/9/8	Tue 24/8/27	Sun 24/9/8	0 days	0	324FS-2 days
326	Concreting	1 day	Sat 24/9/7	Sat 24/9/7	Sat 24/9/7	Sat 24/9/7	Sat 24/9/7	Sat 24/9/7	0 days	0	325FS-2 days
327	**SHT.CP10D~SHT.CP10C,750CU(HD-G),L=11.9**	**24 days**	**Sun 24/9/8**	**Tue 24/10/1**	**Sun 24/9/8**	**Tue 24/10/1**	**Sun 24/9/8**	**Tue 24/10/1**	**0 days**		
328	Excavation and Lateral Support	8 days	Sun 24/9/8	Sun 24/9/15	Sun 24/9/8	Sun 24/9/15	Sun 24/9/8	Sun 24/9/15	0 days	0	326
329	Formwork Erection	10 days	Sat 24/9/14	Mon 24/9/23	Sat 24/9/14	Mon 24/9/23	Sat 24/9/14	Mon 24/9/23	0 days	0	328FS-2 days
330	Catchpit construcion	10 days	Sun 24/9/22	Tue 24/10/1	Sun 24/9/22	Tue 24/10/1	Sun 24/9/22	Tue 24/10/1	0 days	0	329FS-2 days
331	Concreting	1 day	Mon 24/9/30	Mon 24/9/30	Mon 24/9/30	Mon 24/9/30	Mon 24/9/30	Mon 24/9/30	0 days	0	330FS-2 days
332	**SHT.CP10C~SHT.CP10B,750CU(HD-G),L=6.5**	**17 days**	**Tue 24/10/1**	**Thu 24/10/17**	**Tue 24/10/1**	**Thu 24/10/17**	**Tue 24/10/1**	**Thu 24/10/17**	**0 days**		
333	Excavation and Lateral Support	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	331
334	Formwork Erection	8 days	Sat 24/10/5	Sat 24/10/12	Sat 24/10/5	Sat 24/10/12	Sat 24/10/5	Sat 24/10/12	0 days	0	333FS-2 days
335	Catchpit construcion	7 days	Fri 24/10/11	Thu 24/10/17	Fri 24/10/11	Thu 24/10/17	Fri 24/10/11	Thu 24/10/17	0 days	0	334FS-2 days
336	Concreting	1 day	Wed 24/10/16	Wed 24/10/16	Wed 24/10/16	Wed 24/10/16	Wed 24/10/16	Wed 24/10/16	0 days	0	335FS-2 days
337	**SHT.CP10B~SHT.CP10A,750CU(HD-G),L=6.4**	**17 days**	**Thu 24/10/17**	**Sat 24/11/2**	**Thu 24/10/17**	**Sat 24/11/2**	**Thu 24/10/17**	**Sat 24/11/2**	**0 days**		
338	Excavation and Lateral Support	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	336
339	Formwork Erection	8 days	Mon 24/10/21	Mon 24/10/28	Mon 24/10/21	Mon 24/10/28	Mon 24/10/21	Mon 24/10/28	0 days	0	338FS-2 days
340	Catchpit construcion	7 days	Sun 24/10/27	Sat 24/11/2	Sun 24/10/27	Sat 24/11/2	Sun 24/10/27	Sat 24/11/2	0 days	0	339FS-2 days
341	Concreting	1 day	Fri 24/11/1	Fri 24/11/1	Fri 24/11/1	Fri 24/11/1	Fri 24/11/1	Fri 24/11/1	0 days	0	340FS-2 days
342	**SHT.CP10A~SHT.CP10,750CU(HD-G),L=26.7**	**39 days**	**Sat 24/11/2**	**Tue 24/12/10**	**Sat 24/11/2**	**Tue 24/12/10**	**Sat 24/11/2**	**Tue 24/12/10**	**0 days**		
343	Excavation and Lateral Support	14 days	Sat 24/11/2	Fri 24/11/15	Sat 24/11/2	Fri 24/11/15	Sat 24/11/2	Fri 24/11/15	0 days	0	341
344	Formwork Erection	15 days	Thu 24/11/14	Thu 24/11/28	Thu 24/11/14	Thu 24/11/28	Thu 24/11/14	Thu 24/11/28	0 days	0	343FS-2 days
345	Catchpit construcion	14 days	Wed 24/11/27	Tue 24/12/10	Wed 24/11/27	Tue 24/12/10	Wed 24/11/27	Tue 24/12/10	0 days	0	344FS-2 days
346	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	345FS-2 days
347	**SHT.CP10~SHT.CP9,750CU(HD-G),L=4.3**	**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**		
348	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	346
349	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	348FS-2 days
350	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	349FS-2 days
351	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	350FS-2 days
352	**SHT.CP9~SHT.CP8,600CU(HD-G),L=33.7**	**45 days**	**Thu 24/12/26**	**Sat 25/2/8**	**Thu 24/12/26**	**Sat 25/2/8**	**Thu 24/12/26**	**Sat 25/2/8**	**0 days**		
353	**Stage 1**	**24 days**	**Thu 24/12/26**	**Sat 25/1/18**	**Thu 24/12/26**	**Sat 25/1/18**	**Thu 24/12/26**	**Sat 25/1/18**	**0 days**		
354	Excavation and Lateral Support	8 days	Thu 24/12/26	Thu 25/1/2	Thu 24/12/26	Thu 25/1/2	Thu 24/12/26	Thu 25/1/2	0 days	0	351
355	Formwork Erection	10 days	Wed 25/1/1	Fri 25/1/10	Wed 25/1/1	Fri 25/1/10	Wed 25/1/1	Fri 25/1/10	0 days	0	354FS-2 days
356	Catchpit construcion	10 days	Thu 25/1/9	Sat 25/1/18	Thu 25/1/9	Sat 25/1/18	Thu 25/1/9	Sat 25/1/18	0 days	0	355FS-2 days
357	Concreting	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	356FS-2 days
358	**Stage 2**	**22 days**	**Sat 25/1/18**	**Sat 25/2/8**	**Sat 25/1/18**	**Sat 25/2/8**	**Sat 25/1/18**	**Sat 25/2/8**	**0 days**		
359	Excavation and Lateral Support	8 days	Sat 25/1/18	Sat 25/1/25	Sat 25/1/18	Sat 25/1/25	Sat 25/1/18	Sat 25/1/25	0 days	0	357
360	Formwork Erection	10 days	Fri 25/1/24	Sun 25/2/2	Fri 25/1/24	Sun 25/2/2	Fri 25/1/24	Sun 25/2/2	0 days	0	359FS-2 days
361	Catchpit construcion	8 days	Sat 25/2/1	Sat 25/2/8	Sat 25/2/1	Sat 25/2/8	Sat 25/2/1	Sat 25/2/8	0 days	0	360FS-2 days
362	Concreting	1 day	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	Fri 25/2/7	0 days	0	361FS-2 days
363	Connection of ex. 300CU to SHT.CP8	28 days	Thu 25/2/6	Wed 25/3/5	Thu 25/2/6	Wed 25/3/5	Tue 25/12/30	Mon 26/1/26	327 days	0	362FS-2 days
364	**SHT.CP8~SHT.CP7,600CU(HD-G),L=8.5**	**17 days**	**Sat 25/2/8**	**Mon 25/2/24**	**Sat 25/2/8**	**Mon 25/2/24**	**Sat 25/2/8**	**Mon 25/2/24**	**0 days**		
365	Excavation and Lateral Support	6 days	Sat 25/2/8	Thu 25/2/13	Sat 25/2/8	Thu 25/2/13	Sat 25/2/8	Thu 25/2/13	0 days	0	362
366	Formwork Erection	8 days	Wed 25/2/12	Wed 25/2/19	Wed 25/2/12	Wed 25/2/19	Wed 25/2/12	Wed 25/2/19	0 days	0	365FS-2 days
367	Catchpit construcion	7 days	Tue 25/2/18	Mon 25/2/24	Tue 25/2/18	Mon 25/2/24	Tue 25/2/18	Mon 25/2/24	0 days	0	366FS-2 days
368	Concreting	1 day	Sun 25/2/23	Sun 25/2/23	Sun 25/2/23	Sun 25/2/23	Sun 25/2/23	Sun 25/2/23	0 days	0	367FS-2 days
369	Reconstruction of U/S end wall	21 days	Sat 25/2/22	Fri 25/3/14	Sat 25/2/22	Fri 25/3/14	Tue 26/1/6	Mon 26/1/26	318 days	0	368FS-2 days
370	**SHT.CP7~SHT.CP6,600CU(HD-G),L=130.8**	**141 days**	**Mon 25/2/24**	**Mon 25/7/14**	**Mon 25/2/24**	**Mon 25/7/14**	**Mon 25/2/24**	**Mon 25/7/14**	**0 days**		
371	**Stage 1**	**29 days**	**Mon 25/2/24**	**Mon 25/3/24**	**Mon 25/2/24**	**Mon 25/3/24**	**Mon 25/2/24**	**Mon 25/3/24**	**0 days**		
372	Excavation and Lateral Support	10 days	Mon 25/2/24	Wed 25/3/5	Mon 25/2/24	Wed 25/3/5	Mon 25/2/24	Wed 25/3/5	0 days	0	368
373	Formwork Erection	12 days	Tue 25/3/4	Sat 25/3/15	Tue 25/3/4	Sat 25/3/15	Tue 25/3/4	Sat 25/3/15	0 days	0	372FS-2 days
374	Catchpit construcion	11 days	Fri 25/3/14	Mon 25/3/24	Fri 25/3/14	Mon 25/3/24	Fri 25/3/14	Mon 25/3/24	0 days	0	373FS-2 days
375	Concreting	1 day	Sun 25/3/23	Sun 25/3/23	Sun 25/3/23	Sun 25/3/23	Sun 25/3/23	Sun 25/3/23	0 days	0	374FS-2 days
376	**Stage 2**	**29 days**	**Mon 25/3/24**	**Mon 25/4/21**	**Mon 25/3/24**	**Mon 25/4/21**	**Mon 25/3/24**	**Mon 25/4/21**	**0 days**		
377	Excavation and Lateral Support	10 days	Mon 25/3/24	Wed 25/4/2	Mon 25/3/24	Wed 25/4/2	Mon 25/3/24	Wed 25/4/2	0 days	0	375
378	Formwork Erection	12 days	Tue 25/4/1	Sat 25/4/12	Tue 25/4/1	Sat 25/4/12	Tue 25/4/1	Sat 25/4/12	0 days	0	377FS-2 days
379	Catchpit construcion	11 days	Fri 25/4/11	Mon 25/4/21	Fri 25/4/11	Mon 25/4/21	Fri 25/4/11	Mon 25/4/21	0 days	0	378FS-2 days
380	Concreting	1 day	Sun 25/4/20	Sun 25/4/20	Sun 25/4/20	Sun 25/4/20	Sun 25/4/20	Sun 25/4/20	0 days	0	379FS-2 days
381	**Stage 3**	**29 days**	**Mon 25/4/21**	**Mon 25/5/19**	**Mon 25/4/21**	**Mon 25/5/19**	**Mon 25/4/21**	**Mon 25/5/19**	**0 days**		
382	Excavation and Lateral Support	10 days	Mon 25/4/21	Wed 25/4/30	Mon 25/4/21	Wed 25/4/30	Mon 25/4/21	Wed 25/4/30	0 days	0	380
383	Formwork Erection	12 days	Tue 25/4/29	Sat 25/5/10	Tue 25/4/29	Sat 25/5/10	Tue 25/4/29	Sat 25/5/10	0 days	0	382FS-2 days
384	Catchpit construcion	11 days	Fri 25/5/9	Mon 25/5/19	Fri 25/5/9	Mon 25/5/19	Fri 25/5/9	Mon 25/5/19	0 days	0	383FS-2 days
385	Concreting	1 day	Sun 25/5/18	Sun 25/5/18	Sun 25/5/18	Sun 25/5/18	Sun 25/5/18	Sun 25/5/18	0 days	0	384FS-2 days
386	**Stage 4**	**29 days**	**Mon 25/5/19**	**Mon 25/6/16**	**Mon 25/5/19**	**Mon 25/6/16**	**Mon 25/5/19**	**Mon 25/6/16**	**0 days**		
387	Excavation and Lateral Support	10 days	Mon 25/5/19	Wed 25/5/28	Mon 25/5/19	Wed 25/5/28	Mon 25/5/19	Wed 25/5/28	0 days	0	385
388	Formwork Erection	12 days	Tue 25/5/27	Sat 25/6/7	Tue 25/5/27	Sat 25/6/7	Tue 25/5/27	Sat 25/6/7	0 days	0	387FS-2 days
389	Catchpit construcion	11 days	Fri 25/6/6	Mon 25/6/16	Fri 25/6/6	Mon 25/6/16	Fri 25/6/6	Mon 25/6/16	0 days	0	388FS-2 days
390	Concreting	1 day	Sun 25/6/15	Sun 25/6/15	Sun 25/6/15	Sun 25/6/15	Sun 25/6/15	Sun 25/6/15	0 days	0	389FS-2 days
391	**Stage 5**	**29 days**	**Mon 25/6/16**	**Mon 25/7/14**	**Mon 25/6/16**	**Mon 25/7/14**	**Mon 25/6/16**	**Mon 25/7/14**	**0 days**		
392	Excavation and Lateral Support	10 days	Mon 25/6/16	Wed 25/6/25	Mon 25/6/16	Wed 25/6/25	Mon 25/6/16	Wed 25/6/25	0 days	0	390
393	Formwork Erection	12 days	Tue 25/6/24	Sat 25/7/5	Tue 25/6/24	Sat 25/7/5	Tue 25/6/24	Sat 25/7/5	0 days	0	392FS-2 days
394	Catchpit construcion	11 days	Fri 25/7/4	Mon 25/7/14	Fri 25/7/4	Mon 25/7/14	Fri 25/7/4	Mon 25/7/14	0 days	0	393FS-2 days
395	Concreting	1 day	Sun 25/7/13	Sun 25/7/13	Sun 25/7/13	Sun 25/7/13	Sun 25/7/13	Sun 25/7/13	0 days	0	394FS-2 days
396	Connection of ex. 400CU to SHT.CP6	28 days	Sat 25/7/12	Fri 25/8/8	Sat 25/7/12	Fri 25/8/8	Tue 25/12/30	Mon 26/1/26	171 days	0	395FS-2 days
397	**SHT.CP6~SHT.CP5,600CU(HD-G),L=24.1**	**36 days**	**Mon 25/7/14**	**Mon 25/8/18**	**Mon 25/7/14**	**Mon 25/8/18**	**Mon 25/7/14**	**Mon 25/8/18**	**0 days**		



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
398	Excavation and Lateral Support	13 days	Mon 25/7/14	Sat 25/7/26	Mon 25/7/14	Sat 25/7/26	Mon 25/7/14	Sat 25/7/26	0 days	0	395
399	Formwork Erection	14 days	Fri 25/7/25	Thu 25/8/7	Fri 25/7/25	Thu 25/8/7	Fri 25/7/25	Thu 25/8/7	0 days	0	398FS-2 days
400	Catchpit construcion	13 days	Wed 25/8/6	Mon 25/8/18	Wed 25/8/6	Mon 25/8/18	Wed 25/8/6	Mon 25/8/18	0 days	0	399FS-2 days
401	Concreting	1 day	Sun 25/8/17	Sun 25/8/17	Sun 25/8/17	Sun 25/8/17	Sun 25/8/17	Sun 25/8/17	0 days	0	400FS-2 days
402	Connection of ex. 400CU to SHT.CP5	28 days	Sat 25/8/16	Fri 25/9/12	Sat 25/8/16	Fri 25/9/12	Tue 25/12/30	Mon 26/1/26	136 days	0	401FS-2 days
403	SHT.CP5~SHT.CP4,600CU(HD-G),L=73.9	85 days	Mon 25/8/18	Mon 25/11/10	Mon 25/8/18	Mon 25/11/10	Mon 25/8/18	##########	0 days		
404	Stage 1	29 days	Mon 25/8/18	Mon 25/9/15	Mon 25/8/18	Mon 25/9/15	Mon 25/8/18	Mon 25/9/15	0 days		
405	Excavation and Lateral Support	10 days	Mon 25/8/18	Wed 25/8/27	Mon 25/8/18	Wed 25/8/27	Mon 25/8/18	Wed 25/8/27	0 days	0	401
406	Formwork Erection	12 days	Tue 25/8/26	Sat 25/9/6	Tue 25/8/26	Sat 25/9/6	Tue 25/8/26	Sat 25/9/6	0 days	0	405FS-2 days
407	Catchpit construcion	11 days	Fri 25/9/5	Mon 25/9/15	Fri 25/9/5	Mon 25/9/15	Fri 25/9/5	Mon 25/9/15	0 days	0	406FS-2 days
408	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	407FS-2 days
409	Stage 2	29 days	Mon 25/9/15	Mon 25/10/13	Mon 25/9/15	Mon 25/10/13	Mon 25/9/15	##########	0 days		
410	Excavation and Lateral Support	10 days	Mon 25/9/15	Wed 25/9/24	Mon 25/9/15	Wed 25/9/24	Mon 25/9/15	Wed 25/9/24	0 days	0	408
411	Formwork Erection	12 days	Tue 25/9/23	Sat 25/10/4	Tue 25/9/23	Sat 25/10/4	Tue 25/9/23	Sat 25/10/4	0 days	0	410FS-2 days
412	Catchpit construcion	11 days	Fri 25/10/3	Mon 25/10/13	Fri 25/10/3	Mon 25/10/13	Fri 25/10/3	Mon 25/10/13	0 days	0	411FS-2 days
413	Concreting	1 day	Sun 25/10/12	Sun 25/10/12	Sun 25/10/12	Sun 25/10/12	Sun 25/10/12	Sun 25/10/12	0 days	0	412FS-2 days
414	Stage 3	29 days	Mon 25/10/13	Mon 25/11/10	##########	Mon 25/11/10	##########	##########	0 days		
415	Excavation and Lateral Support	10 days	Mon 25/10/13	Wed 25/10/22	Mon 25/10/13	Wed 25/10/22	Mon 25/10/13	Wed 25/10/22	0 days	0	413
416	Formwork Erection	12 days	Tue 25/10/21	Sat 25/11/1	Tue 25/10/21	Sat 25/11/1	Tue 25/10/21	Sat 25/11/1	0 days	0	415FS-2 days
417	Catchpit construcion	11 days	Fri 25/10/31	Mon 25/11/10	Fri 25/10/31	Mon 25/11/10	Fri 25/10/31	Mon 25/11/10	0 days	0	416FS-2 days
418	Concreting	1 day	Sun 25/11/9	Sun 25/11/9	Sun 25/11/9	Sun 25/11/9	Sun 25/11/9	Sun 25/11/9	0 days	0	417FS-2 days
419	Connection of ex. 450CU to SHT.CP4	28 days	Sat 25/11/8	Fri 25/12/5	Sat 25/11/8	Fri 25/12/5	Tue 25/12/30	Mon 26/1/26	52 days	0	418FS-2 days
420	SHT.CP4~End,525CU(HD-G),L=82.3	78 days	Mon 25/11/10	Mon 26/1/26	##########	Mon 26/1/26	##########	Mon 26/1/26	0 days		
421	Stage 1	27 days	Mon 25/11/10	Sat 25/12/6	##########	Sat 25/12/6	##########	Sat 25/12/6	0 days		
422	Excavation and Lateral Support	10 days	Mon 25/11/10	Wed 25/11/19	Mon 25/11/10	Wed 25/11/19	Mon 25/11/10	Wed 25/11/19	0 days	0	418,115,118
423	Formwork Erection	11 days	Tue 25/11/18	Fri 25/11/28	Tue 25/11/18	Fri 25/11/28	Tue 25/11/18	Fri 25/11/28	0 days	0	422FS-2 days
424	Catchpit construcion	10 days	Thu 25/11/27	Sat 25/12/6	Thu 25/11/27	Sat 25/12/6	Thu 25/11/27	Sat 25/12/6	0 days	0	423FS-2 days
425	Concreting	1 day	Fri 25/12/5	Fri 25/12/5	Fri 25/12/5	Fri 25/12/5	Fri 25/12/5	Fri 25/12/5	0 days	0	424FS-2 days
426	Stage 2	27 days	Sat 25/12/6	Thu 26/1/1	Sat 25/12/6	Thu 26/1/1	Sat 25/12/6	Thu 26/1/1	0 days		
427	Excavation and Lateral Support	10 days	Sat 25/12/6	Mon 25/12/15	Sat 25/12/6	Mon 25/12/15	Sat 25/12/6	Mon 25/12/15	0 days	0	425
428	Formwork Erection	11 days	Sun 25/12/14	Wed 25/12/24	Sun 25/12/14	Wed 25/12/24	Sun 25/12/14	Wed 25/12/24	0 days	0	427FS-2 days
429	Catchpit construcion	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	0	428FS-2 days
430	Concreting	1 day	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	Wed 25/12/31	0 days	0	429FS-2 days
431	Stage 3	26 days	Thu 26/1/1	Mon 26/1/26	Thu 26/1/1	Mon 26/1/26	Thu 26/1/1	Mon 26/1/26	0 days		
432	Excavation and Lateral Support	10 days	Thu 26/1/1	Sat 26/1/10	Thu 26/1/1	Sat 26/1/10	Thu 26/1/1	Sat 26/1/10	0 days	0	430
433	Formwork Erection	10 days	Fri 26/1/9	Sun 26/1/18	Fri 26/1/9	Sun 26/1/18	Fri 26/1/9	Sun 26/1/18	0 days	0	432FS-2 days
434	Catchpit construcion	10 days	Sat 26/1/17	Mon 26/1/26	Sat 26/1/17	Mon 26/1/26	Sat 26/1/17	Mon 26/1/26	0 days	0	433FS-2 days
435	Concreting	1 day	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	Mon 26/1/26	0 days	0	434FS-1 day



Revision.: 7.0 Date: 31 March 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}

Appendix 1.2 Project Organization Chart

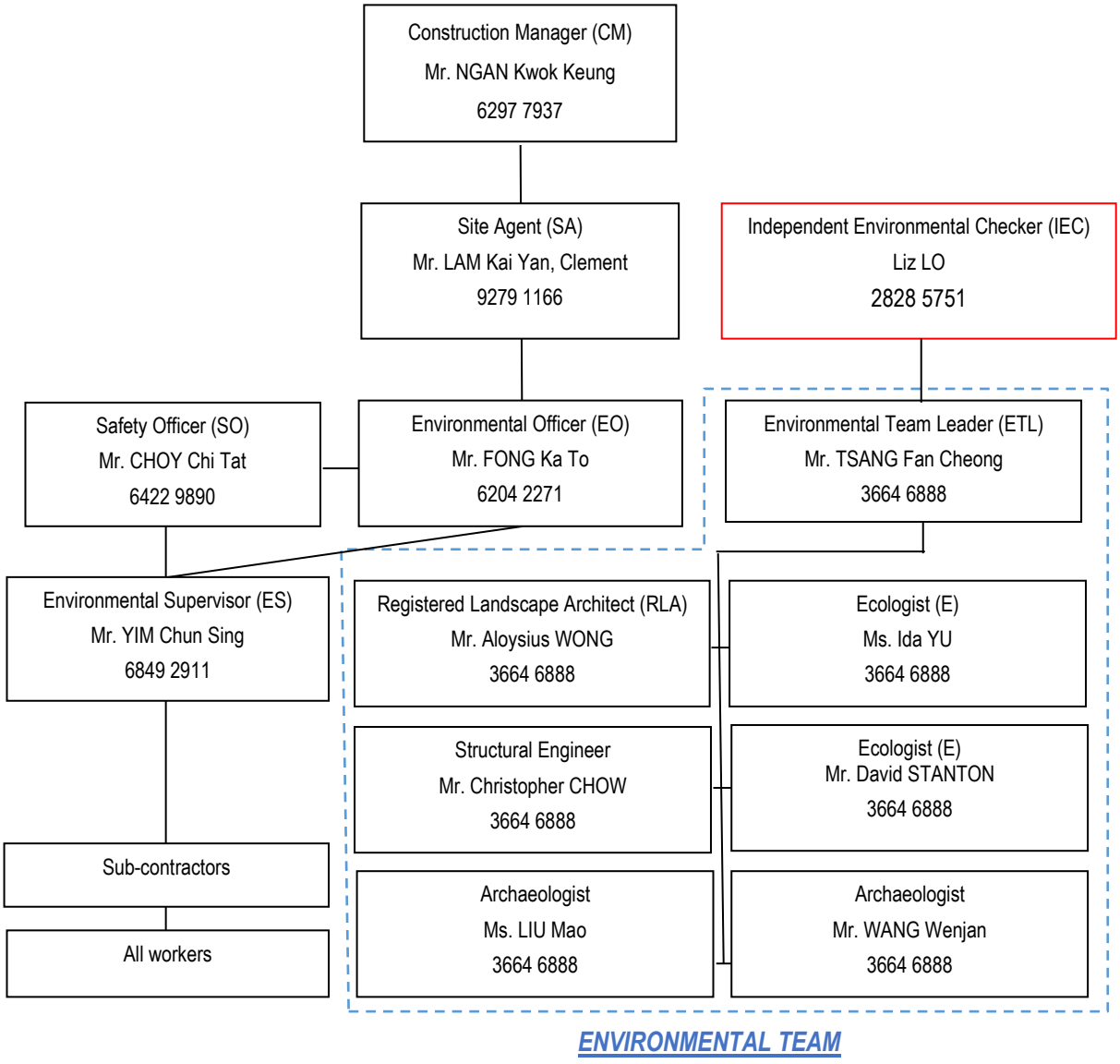
Appendix 1

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 02-05-2024)



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
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
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
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	Deficiency of Mitigation Measures but rectified by the Contractor
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

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
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
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
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
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
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

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
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
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
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
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	Deficiency of Mitigation Measures 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
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

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
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
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
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

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
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

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
		• 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

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
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
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

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
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

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
		• 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
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
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, pro-construction surveies at Ha Che and Lin Fa Tei were completed between 5 and 7 Feb 2024 and 11 and 13 Mar 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
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
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
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

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
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; • 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;	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, WPCO license for Ha Che was granted on 26 Apr 2024. WPCO license for Sung Shan New Village, Tai Wo and Lin Fa Tei is under application

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
		• 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 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;					

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
		• 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 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.	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, WPCO license for Ha Che was granted on 26 Apr 2024. WPCO license for Sung Shan New Village, Tai Wo and Lin Fa Tei is under application

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
		• 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 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;					

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
		• 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
		• 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 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.					

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
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
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	WPCO license for Ha Che was granted on 26 Apr 2024. WPCO license for Sung Shan New Village, Tai Wo and Lin Fa Tei is under application

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
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 construction phase of the project would not cause water quality impact after undertaking all required measures.	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

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
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; • 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;	Water quality control during construction	Contractor(s)	At all construction areas of the site 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
		• 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; • 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.					

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
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; • There must be no dry weather wastewater discharges from the site; • Monitor wet weather discharges for pH and suspended solids. Retain the records.	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented
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

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
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 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.	Water quality control during construction	Contractor(s)	At Tai Wo Area during the entire construction period	WPCO	Implemented

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
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
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
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

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
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
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
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

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
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
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

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
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
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
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
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
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

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
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

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
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

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
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
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
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
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

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
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
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
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
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
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

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
Construction Phase							
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

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
		• 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
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
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

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
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

Appendix 2.1 Calibration Certificates of Impact Water Quality Monitoring Equipment

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD030061
Date of Issue : 19 March 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 :	14 March 2024
Date of Calibration :	18 March 2024
Date of Next Calibration :	18 June 2024
Request No. :	D-BD030061

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	3.98	-0.02	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	9.86	-0.15	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	16.5	0.5	Satisfactory
24.0	23.1	-0.9	Satisfactory
35.5	35.1	-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	9.38	-6.20	Satisfactory
20	18.65	-6.75	Satisfactory
30	29.05	-3.17	Satisfactory

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD030061
Date of Issue : 19 March 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.41	8.13	-0.28	Satisfactory
6.11	5.88	-0.23	Satisfactory
2.56	2.40	-0.16	Satisfactory
0.83	0.41	-0.42	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.88	--	Satisfactory
10	10.88	8.8	Satisfactory
20	21.14	5.7	Satisfactory
100	106.45	6.5	Satisfactory
800	761.97	-4.8	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-BD010030
Date of Issue : 25 January 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 (a xylem brand)
Serial Number :	22C106561
Date of Received :	22 January 2024
Date of Calibration :	24 January 2024
Date of Next Calibration :	24 April 2024
Request No. :	D-BD010030

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	4.02	0.02	Satisfactory
7.42	7.45	0.03	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
33	34.1	1.1	Satisfactory
19	18.7	-0.3	Satisfactory
11	11.5	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	10.19	1.90	Satisfactory
20	21.27	6.35	Satisfactory
30	30.21	0.70	Satisfactory

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD010030
Date of Issue : 25 January 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.60	8.89	0.29	Satisfactory
5.33	5.70	0.37	Satisfactory
3.40	3.50	0.10	Satisfactory
0.34	0.26	-0.08	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.50	--	Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	Satisfactory

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

Remark(s)

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·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.

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·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-BD040041
Date of Issue : 16 April 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 (a xylem brand)
Serial Number :	22C106561
Date of Received :	10 April 2024
Date of Calibration :	16 April 2024
Date of Next Calibration :	15 July 2024
Request No. :	D-BD040041

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	4.14	0.14	Satisfactory
7.42	7.56	0.14	Satisfactory
10.01	10.09	0.08	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
11.0	11.1	0.1	Satisfactory
26.0	25.1	-0.9	Satisfactory
40.0	38.7	-1.3	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.68	-3.20	Satisfactory
20	19.27	-3.65	Satisfactory
30	28.85	-3.83	Satisfactory

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

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD040041
Date of Issue : 16 April 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.14	8.59	0.45	Satisfactory
5.35	5.12	-0.23	Satisfactory
2.92	2.72	-0.20	Satisfactory
0.32	0.26	-0.06	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.88	--	Satisfactory
10	9.62	-3.8	Satisfactory
20	18.76	-6.2	Satisfactory
100	98.45	-1.6	Satisfactory
800	770.86	-3.6	Satisfactory

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

Remark(s)

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·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.

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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)

April 2024

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3 Water quality monitoring at C6, C7A, C8, C9 and C10	4	5 Noise monitoring at HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11 Water quality monitoring at C6, C7A, C8, C9 and C10	6
7	8 Water quality monitoring at C6, C7A, C8, C9 and C10	9	10 Water quality monitoring at C6, C7A, C8, C9 and C10	11	12 Noise monitoring at HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11 Water quality monitoring at C6, C7A, C8, C9 and C10	13
14	15 Water quality monitoring at C6, C7A, C8, C9 and C10	16	17 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	18	19 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	20
21	22	23 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	24	25 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	26 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11	27 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
28	29 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	30				

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_M7, 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
3. As confirmed by the contractor, no construction work is scheduled at Lin Fa Tei and Ha Che during the public holiday (i.e. 1 April 2024 and 4 April 2024). Thus, no impact noise monitoring and impact water quality monitoring is scheduled on 1 April 2024 and 4 April 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 (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C1A	20240417	Cloudy	15:00	6.91	90.5	7.34	0.05	29.60	8.35	6	/
C1A	20240417	Cloudy	15:00	7.03	92.3	7.36	0.05	29.50	8.13	6	/
C1A	20240419	Cloudy	13:20	7.53	96.9	7.30	0.05	29.80	7.98	33	/
C1A	20240419	Cloudy	13:21	7.52	96.8	7.30	0.05	29.80	7.82	32	/
C1A	20240423	Cloudy	16:35	7.15	86.8	8.21	0.09	25.10	9.36	21	/
C1A	20240423	Cloudy	16:35	7.12	86.3	8.21	0.09	25.10	9.58	16	/
C1A	20240425	Cloudy	16:47	7.09	87.9	7.87	0.11	26.30	4.92	9	/
C1A	20240425	Cloudy	16:47	7.06	87.6	7.86	0.11	26.30	5.26	9	/
C1A	20240427	Cloudy	12:47	7.63	97.0	8.08	0.10	27.70	4.59	5	/
C1A	20240427	Cloudy	12:48	7.60	96.6	8.05	0.10	27.70	4.32	5	/
C1A	20240429	Cloudy	16:52	7.28	92.2	8.02	0.14	27.50	7.06	11	/
C1A	20240429	Cloudy	16:53	7.26	91.9	8.01	0.14	27.50	7.17	15	/

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 (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C2	20240417	Cloudy	14:31	5.65	74.0	7.37	0.05	29.50	8.03	15	/
C2	20240417	Cloudy	14:31	5.63	73.9	7.36	0.05	29.50	8.13	13	/
C2	20240419	Cloudy	13:10	5.80	74.7	7.55	0.08	29.30	8.69	14	/
C2	20240419	Cloudy	13:11	5.84	77.2	7.61	0.08	29.30	8.58	16	/
C2	20240423	Cloudy	16:12	6.81	82.4	8.29	0.09	24.90	20.83	19	/
C2	20240423	Cloudy	16:13	6.79	82.1	8.29	0.09	24.90	20.62	16	/
C2	20240425	Cloudy	16:32	5.56	68.9	7.75	0.10	26.20	5.15	10	/
C2	20240425	Cloudy	16:32	5.55	68.7	7.75	0.10	26.20	5.08	8	/
C2	20240427	Cloudy	12:22	5.29	67.2	7.92	0.10	27.70	3.43	4	/
C2	20240427	Cloudy	12:22	5.09	64.7	7.95	0.10	27.70	3.6	6	/
C2	20240429	Cloudy	16:36	4.14	52.4	8.19	0.26	27.50	27.34	19	/
C2	20240429	Cloudy	16:37	4.11	51.9	8.18	0.26	27.30	26.48	26	/

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: C3A

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C3A	20240417	Cloudy	12:42	2.98	38.7	8.06	0.36	28.90	15.48	14	/
C3A	20240417	Cloudy	12:43	2.93	38.2	8.06	0.36	29.00	14.97	9	/
C3A	20240419	Cloudy	13:02	4.12	53.1	7.99	0.18	29.30	11.21	10	/
C3A	20240419	Cloudy	13:02	4.25	53.9	8.00	0.18	29.20	10.88	17	/
C3A	20240423	Cloudy	15:59	7.60	90.6	8.57	0.02	24.20	18.14	16	/
C3A	20240423	Cloudy	15:59	7.58	90.5	8.56	0.02	24.20	18.32	18	/
C3A	20240425	Cloudy	16:20	6.85	83.4	8.14	0.02	25.30	11.09	12	/
C3A	20240425	Cloudy	16:20	6.85	83.3	8.11	0.02	25.30	11.07	10	/
C3A	20240427	Cloudy	12:08	7.21	89.3	8.30	0.16	26.30	7.57	3	/
C3A	20240427	Cloudy	12:08	7.19	89.1	8.25	0.16	26.30	7.63	4	/
C3A	20240429	Cloudy	16:11	6.76	83.4	8.23	0.02	26.10	7.03	4	/
C3A	20240429	Cloudy	16:11	6.76	83.4	8.23	0.02	26.10	6.98	3	/

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: C6

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C6	20240403	Sunny	15:11	7.42	94.4	9.03	0.11	27.70	3.58	16	/
C6	20240403	Sunny	15:12	7.43	94.5	8.97	0.11	27.80	3.49	21	/
C6	20240405	Sunny	14:52	7.58	98.1	8.83	0.10	28.80	45.43	12	/
C6	20240405	Sunny	14:52	7.56	98.1	8.88	0.10	28.80	38.75	13	/
C6	20240408	Cloudy	15:06	7.75	93.0	7.95	0.08	24.50	3.00	2	/
C6	20240408	Cloudy	15:07	7.79	93.5	7.97	0.08	24.50	2.95	2	/
C6	20240410	Sunny	14:34	7.83	91.8	8.18	0.08	23.30	5.18	4	/
C6	20240410	Sunny	14:34	7.81	91.6	8.13	0.08	23.30	4.85	4	/
C6	20240412	Sunny	15:08	7.71	93.3	8.59	0.08	25.00	3.84	8	/
C6	20240412	Sunny	15:09	7.71	93.2	8.55	0.08	24.90	4.19	10	/
C6	20240415	Cloudy	11:04	6.77	81.3	8.68	0.26	26.80	29.38	9	/
C6	20240415	Cloudy	11:04	6.81	81.7	8.68	0.26	26.80	29.52	8	/
C6	20240417	Cloudy	11:06	5.66	68.4	8.67	0.19	26.80	29.83	32	/
C6	20240417	Cloudy	11:07	5.77	69.8	8.67	0.19	26.90	29.63	33	/
C6	20240419	Cloudy	11:33	4.62	59.5	8.17	0.21	28.40	8.36	15	/
C6	20240419	Cloudy	11:34	4.62	59.5	8.17	0.21	28.40	8.35	14	/
C6	20240423	Cloudy	14:07	7.80	92.7	8.49	0.11	24.00	10.29	26	/
C6	20240423	Cloudy	14:07	7.80	92.7	8.46	0.11	24.00	9.95	22	/
C6	20240425	Cloudy	14:55	7.60	92.3	8.28	0.07	25.20	4.14	6	/
C6	20240425	Cloudy	14:56	7.58	92.1	8.23	0.07	25.20	4.26	10	/
C6	20240427	Cloudy	10:23	5.12	64.9	7.96	0.10	27.50	6.33	11	/
C6	20240427	Cloudy	10:24	5.12	64.8	7.96	0.10	27.50	5.72	8	/
C6	20240429	Cloudy	14:30	7.25	88.6	8.31	0.08	25.50	4.36	1	/
C6	20240429	Cloudy	14:30	7.23	88.4	8.28	0.08	25.50	4.32	1	/

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Water Quality Monitoring Result

Water Quality Monitoring Location: C7A

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C7A	20240403	Sunny	15:37	4.56	56.2	8.40	0.14	26.00	9.32	9	/
C7A	20240403	Sunny	15:37	4.41	54.4	8.35	0.14	26.00	9.69	9	/
C7A	20240405	Sunny	15:20	3.62	44.4	8.02	0.18	25.60	9.42	15	/
C7A	20240405	Sunny	15:21	3.54	43.4	8.01	0.18	25.60	10.51	10	/
C7A	20240408	Cloudy	15:44	4.86	59.5	7.92	0.13	25.60	7.84	7	/
C7A	20240408	Cloudy	15:44	4.81	58.8	7.83	0.13	25.60	7.83	6	/
C7A	20240410	Sunny	14:59	5.70	69.9	8.09	0.13	25.70	7.85	5	/
C7A	20240410	Sunny	15:00	5.66	69.4	8.07	0.13	25.70	7.63	7	/
C7A	20240412	Sunny	15:32	5.33	68.3	8.31	0.16	28.20	14.94	13	/
C7A	20240412	Sunny	15:33	5.24	67.2	8.30	0.16	28.20	15.02	12	/
C7A	20240415	Cloudy	11:26	4.65	59.7	8.16	0.21	28.20	8.18	33	/
C7A	20240415	Cloudy	11:26	4.65	59.7	8.16	0.21	28.20	8.88	38	/
C7A	20240417	Cloudy	11:29	4.63	59.5	8.16	0.21	28.30	8.05	20	/
C7A	20240417	Cloudy	11:30	4.62	59.5	8.16	0.21	28.30	7.95	26	/
C7A	20240419	Cloudy	11:44	4.19	53.2	8.05	0.24	27.50	11.44	11	/
C7A	20240419	Cloudy	11:45	4.24	53.8	8.05	0.24	27.50	11.00	14	/
C7A	20240423	Cloudy	14:36	6.36	76.7	8.08	0.14	24.80	20.82	22	/
C7A	20240423	Cloudy	14:37	6.38	76.9	8.09	0.14	24.80	20.58	33	/
C7A	20240425	Cloudy	15:28	5.92	73.1	7.97	0.14	26.10	15.27	33	/
C7A	20240425	Cloudy	15:29	5.89	72.7	7.93	0.14	26.10	16.44	38	/
C7A	20240427	Cloudy	10:51	5.06	64.2	7.95	0.10	27.50	4.81	4	/
C7A	20240427	Cloudy	10:51	5.06	64.2	7.95	0.10	27.50	4.79	7	/
C7A	20240429	Cloudy	15:03	5.40	68.3	8.04	0.14	27.40	8.61	8	/
C7A	20240429	Cloudy	15:03	5.37	67.9	8.02	0.14	27.40	8.77	10	/

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Water Quality Monitoring Result

Water Quality Monitoring Location: C8

Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	pH	Sal (ppt)	Temp (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C8	20240403	Sunny	15:54	7.19	87.9	8.20	0.15	25.50	5.28	7	/
C8	20240403	Sunny	15:54	6.53	79.9	8.17	0.16	25.50	5.56	6	/
C8	20240405	Sunny	15:45	6.91	84.2	7.98	0.00	25.40	6.23	14	/
C8	20240405	Sunny	15:45	6.80	82.7	7.90	0.00	25.30	5.78	13	/
C8	20240408	Cloudy	16:09	6.19	75.6	7.87	0.17	25.40	6.97	6	/
C8	20240408	Cloudy	16:09	5.75	70.3	7.87	0.17	25.40	6.95	4	/
C8	20240410	Sunny	15:18	6.50	78.6	7.94	0.16	25.00	6.90	6	/
C8	20240410	Sunny	15:19	6.37	77.2	7.93	0.16	25.00	7.06	7	/
C8	20240412	Sunny	15:58	6.05	76.3	8.08	0.16	27.20	6.56	2	/
C8	20240412	Sunny	15:58	6.17	77.7	8.09	0.16	27.20	6.54	3	/
C8	20240415	Cloudy	11:40	5.86	70.3	8.00	0.24	27.20	10.39	7	/
C8	20240415	Cloudy	11:40	5.78	69.4	8.00	0.24	27.20	10.25	5	/
C8	20240417	Cloudy	11:42	5.81	70.2	8.02	0.24	27.40	6.07	21	/
C8	20240417	Cloudy	11:43	5.64	68.2	8.02	0.24	27.50	5.94	22	/
C8	20240419	Cloudy	12:46	5.54	73.2	7.30	0.05	29.90	8.37	16	/
C8	20240419	Cloudy	12:47	5.53	73.1	7.30	0.05	29.90	8.25	14	/
C8	20240423	Cloudy	15:10	7.67	93.4	8.15	0.10	25.30	5.76	14	/
C8	20240423	Cloudy	15:10	7.67	93.4	8.16	0.10	25.30	5.85	11	/
C8	20240425	Cloudy	15:46	7.30	89.5	8.04	0.09	25.80	7.70	32	/
C8	20240425	Cloudy	15:46	7.37	90.6	8.04	0.09	25.70	7.49	41	/
C8	20240427	Cloudy	11:21	6.11	77.7	7.94	0.10	27.70	7.72	10	/
C8	20240427	Cloudy	11:21	6.10	77.6	7.95	0.10	27.70	7.38	9	/
C8	20240429	Cloudy	15:30	5.55	69.5	8.02	0.10	26.90	11.26	22	/
C8	20240429	Cloudy	15:30	5.53	69.3	8.00	0.10	26.90	11.21	22	/

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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 (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C9	20240403	Sunny	14:23	7.21	85.8	9.19	0.16	24.00	18.64	41	/
C9	20240403	Sunny	14:24	7.18	85.5	9.03	0.16	24.00	18.26	43	/
C9	20240405	Sunny	13:55	7.19	85.5	8.42	0.09	24.10	6.35	36	/
C9	20240405	Sunny	13:56	7.17	85.2	8.38	0.09	24.10	6.77	34	/
C9	20240408	Cloudy	14:11	7.14	84.9	8.29	0.08	24.00	6.85	6	/
C9	20240408	Cloudy	14:12	7.09	84.2	8.23	0.08	23.90	6.99	8	/
C9	20240410	Sunny	13:44	7.33	84.7	8.10	0.08	22.50	5.93	10	/
C9	20240410	Sunny	13:45	7.32	84.6	8.07	0.08	22.50	5.46	12	/
C9	20240412	Sunny	14:11	7.10	84.3	8.77	0.28	23.90	2.96	2	/
C9	20240412	Sunny	14:12	7.06	83.9	8.71	0.25	23.90	3.29	2	/
C9	20240415	Cloudy	10:20	6.84	82.1	8.15	0.08	24.60	5.65	24	/
C9	20240415	Cloudy	10:20	6.82	81.9	8.12	0.08	24.60	5.57	15	/
C9	20240417	Cloudy	10:21	6.73	81.3	7.94	0.09	24.90	3.58	16	/
C9	20240417	Cloudy	10:21	6.73	81.4	7.93	0.09	25.00	3.39	14	/
C9	20240419	Cloudy	10:34	3.18	39.9	7.75	0.15	26.90	8.00	18	/
C9	20240419	Cloudy	10:34	3.18	39.9	7.75	0.15	27.00	7.28	19	/
C9	20240423	Cloudy	13:13	7.60	89.9	8.82	0.27	23.70	10.22	7	/
C9	20240423	Cloudy	13:13	7.61	89.8	8.80	0.27	23.60	10.46	8	/
C9	20240425	Cloudy	14:00	7.32	87.7	8.27	0.08	24.40	5.15	3	/
C9	20240425	Cloudy	14:01	7.32	87.6	8.24	0.08	24.40	5.19	4	/
C9	20240427	Cloudy	9:28	6.95	85.6	8.33	0.14	25.90	7.11	7	/
C9	20240427	Cloudy	9:29	6.95	85.6	8.32	0.14	25.90	7.13	6	/
C9	20240429	Cloudy	13:48	7.18	86.8	8.38	0.09	24.90	2.32	23	/
C9	20240429	Cloudy	13:48	7.17	86.7	8.37	0.09	24.90	2.36	33	/

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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 (^{o}C)	Turbidty (NTU)	SS (mg/L)	Remark
C10	20240403	Sunny	14:40	5.90	71.6	8.22	0.15	25.20	9.68	5	/
C10	20240403	Sunny	14:41	5.71	69.3	8.22	0.15	25.20	10.17	5	/
C10	20240405	Sunny	14:13	3.21	39.2	7.93	0.15	25.40	6.83	5	/
C10	20240405	Sunny	14:13	3.16	38.6	7.91	0.15	25.40	6.76	5	/
C10	20240408	Cloudy	14:34	3.13	38.2	7.76	0.14	25.50	12.52	5	/
C10	20240408	Cloudy	14:34	2.98	33.4	7.75	0.14	25.50	13.57	5	/
C10	20240410	Sunny	14:06	3.61	44.0	7.85	0.15	25.30	8.66	5	/
C10	20240410	Sunny	14:06	3.52	42.9	7.83	0.15	25.30	8.25	7	/
C10	20240412	Sunny	14:32	3.18	40.3	8.22	0.15	27.50	13.43	5	/
C10	20240412	Sunny	14:33	3.05	38.7	8.18	0.15	27.50	13.34	6	/
C10	20240415	Cloudy	10:41	3.88	46.6	8.44	0.14	24.20	15.69	6	/
C10	20240415	Cloudy	10:41	3.99	47.9	8.41	0.14	24.20	15.78	4	/
C10	20240417	Cloudy	10:34	3.2	40.0	7.75	0.15	26.90	9.17	22	/
C10	20240417	Cloudy	10:34	3.19	40.0	7.75	0.15	26.90	8.91	16	/
C10	20240419	Cloudy	11:10	3.14	39.4	8.67	0.26	26.90	18.49	12	/
C10	20240419	Cloudy	11:10	3.13	39.3	8.67	0.26	26.90	19.50	20	/
C10	20240423	Cloudy	13:31	6.91	81.8	8.52	0.12	23.80	18.39	19	/
C10	20240423	Cloudy	13:31	6.89	81.6	8.49	0.12	23.80	18.19	16	/
C10	20240425	Cloudy	14:28	5.12	63.2	8.02	0.12	26.00	18.35	12	/
C10	20240425	Cloudy	14:28	5.07	62.6	7.99	0.12	26.00	18.47	10	/
C10	20240427	Cloudy	9:46	7.02	86.2	8.42	0.02	25.80	7.68	6	/
C10	20240427	Cloudy	9:46	7	86.0	8.41	0.02	25.80	7.64	8	/
C10	20240429	Cloudy	14:03	3.74	46.3	8.03	0.12	26.20	5.00	7	/
C10	20240429	Cloudy	14:03	3.64	45.1	7.98	0.12	26.20	4.81	9	/

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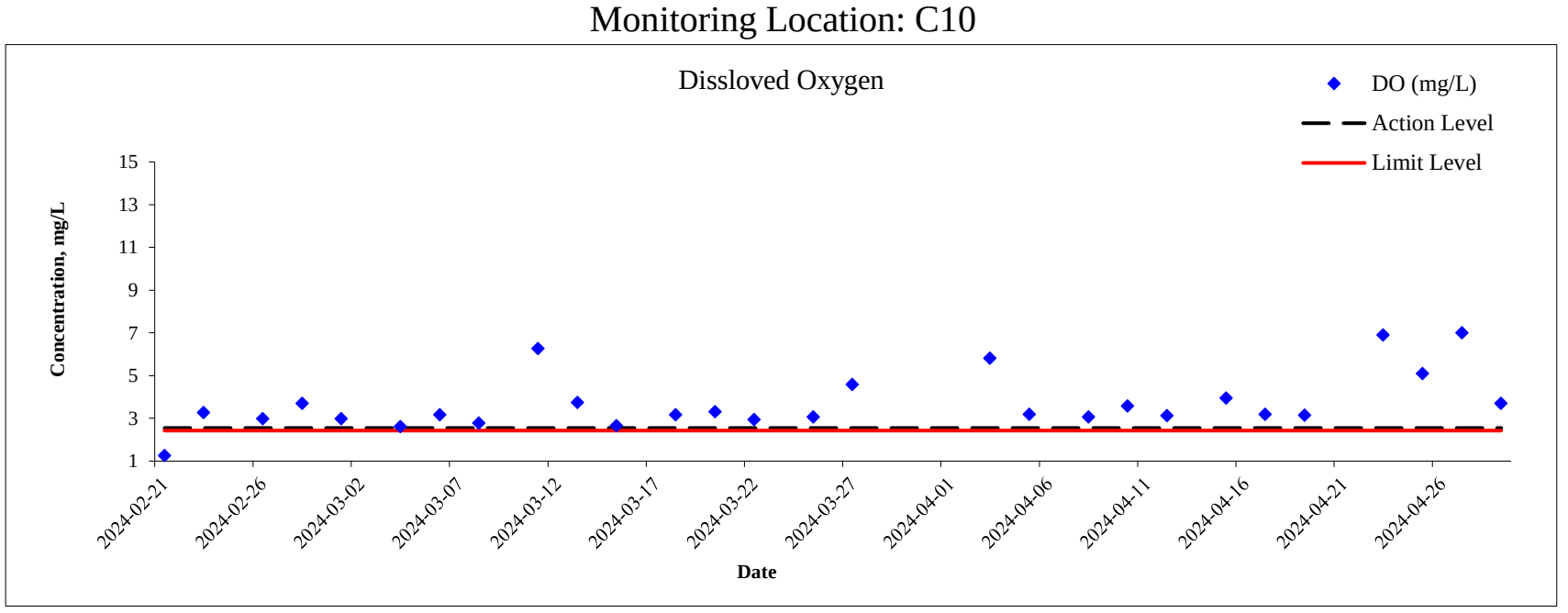
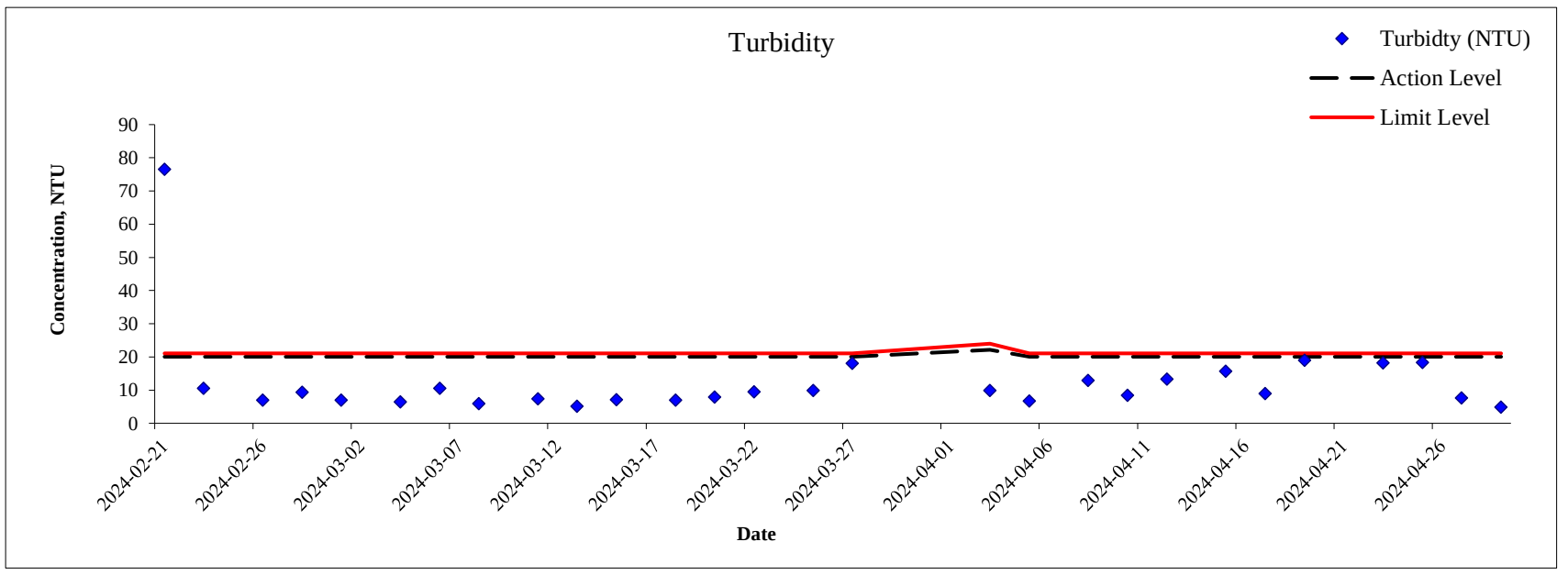
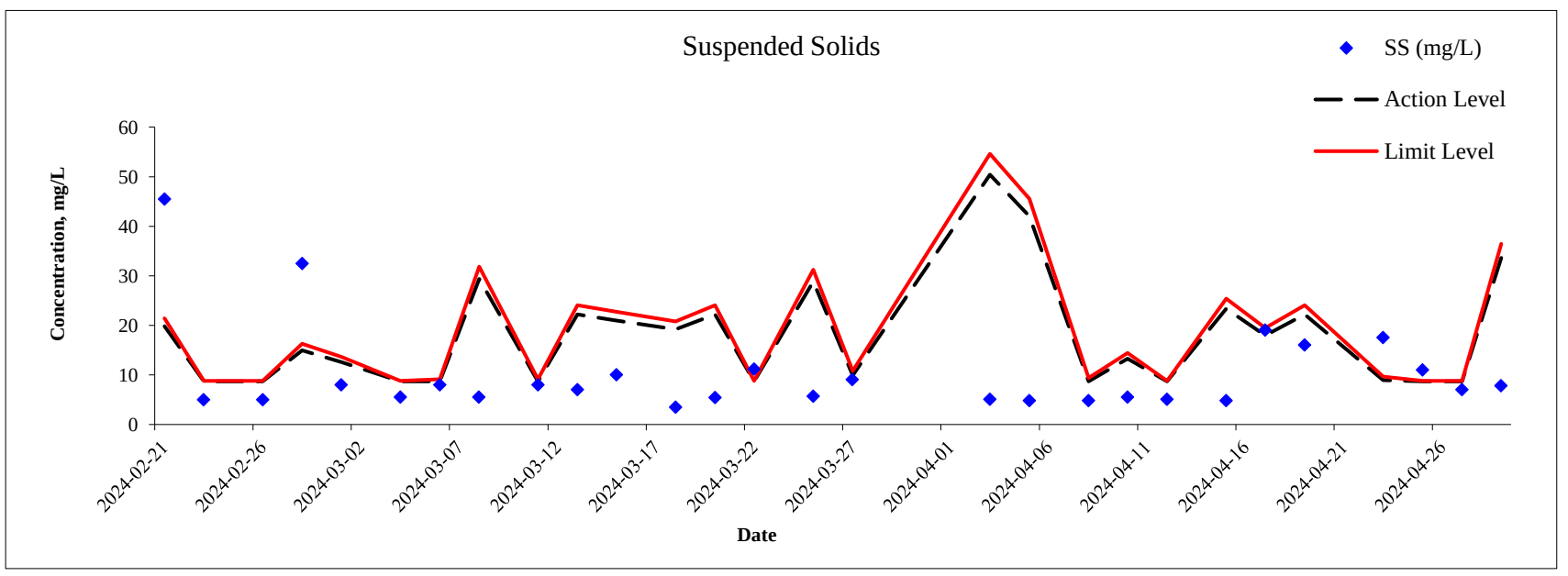
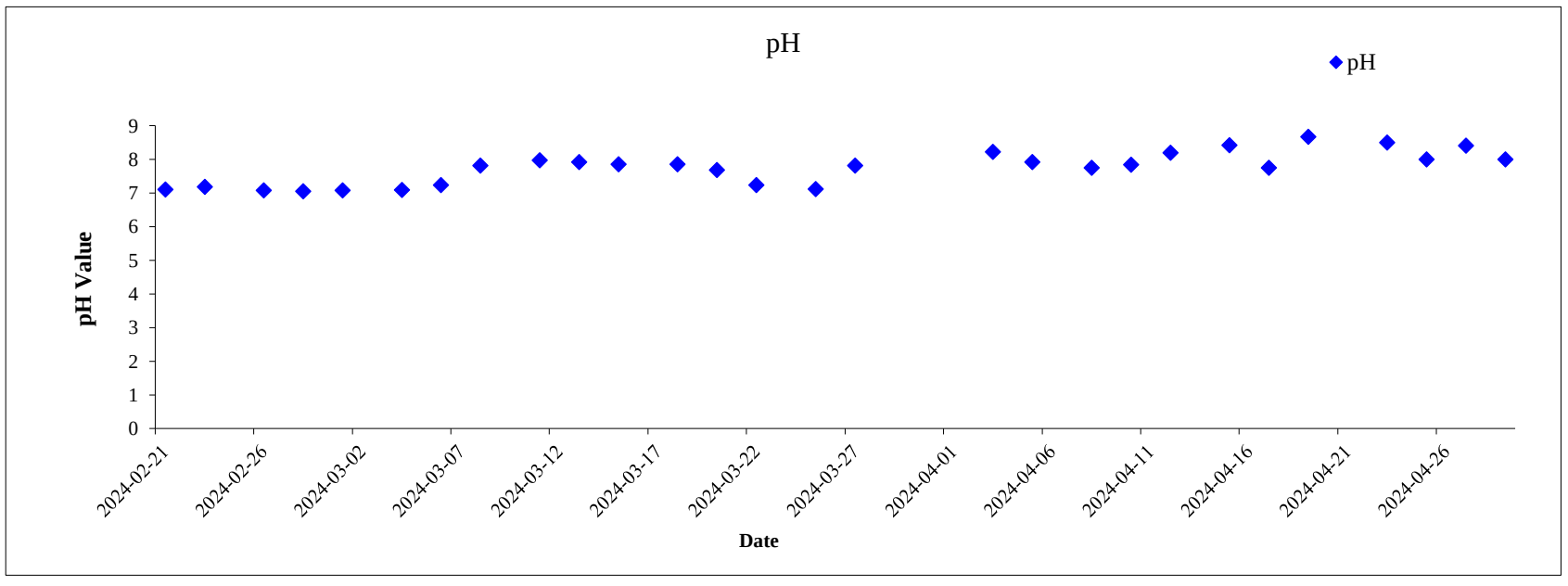
Water Quality Monitoring Result

Monitoring Location: C10









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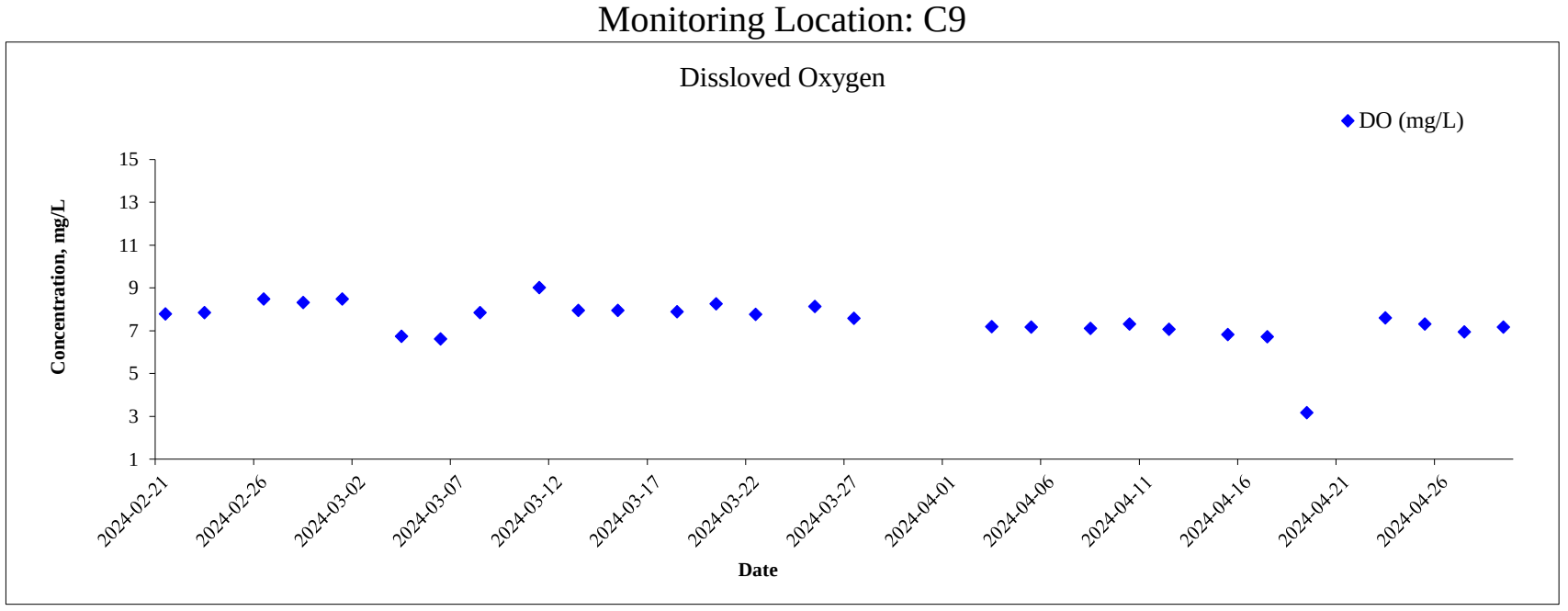
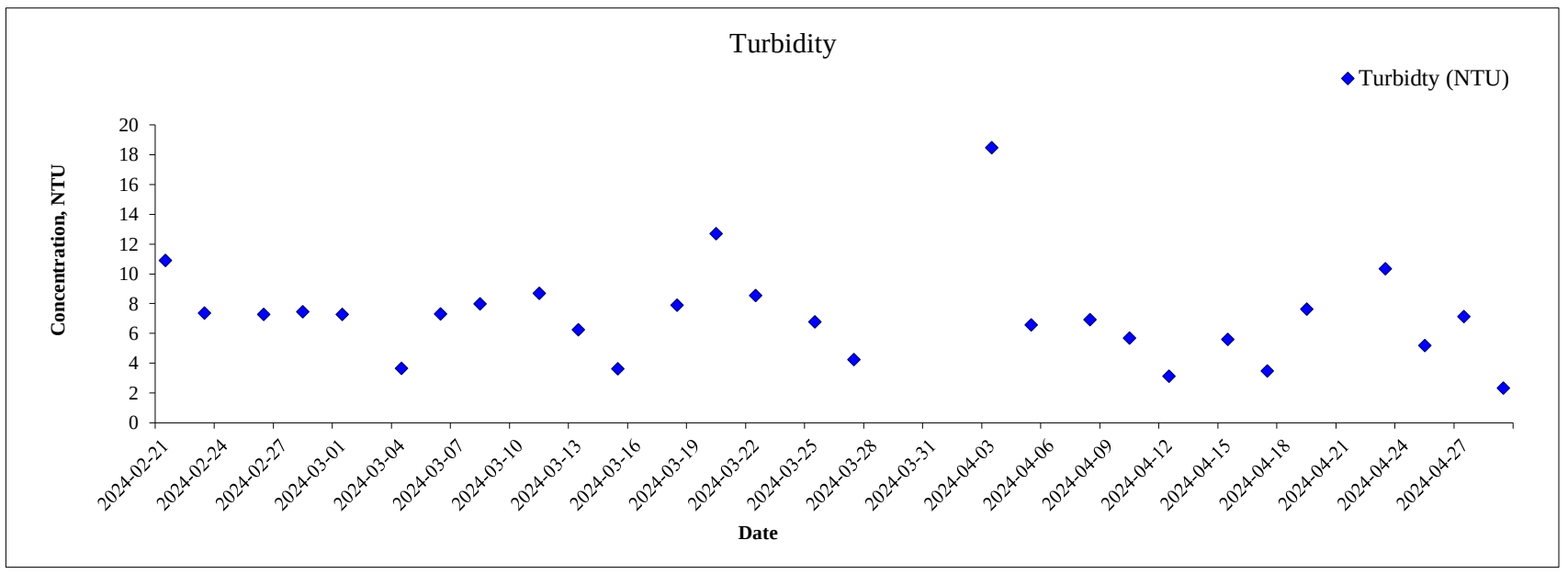
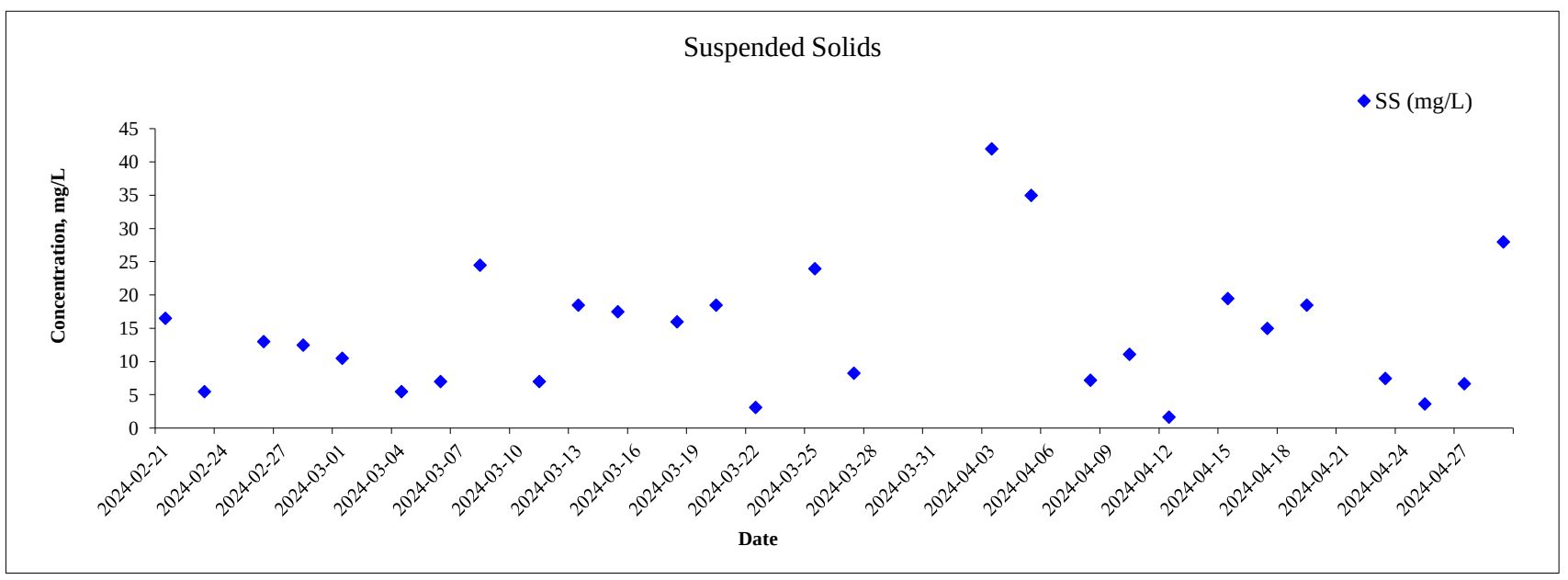
Water Quality Monitoring Result

Monitoring Location: C9







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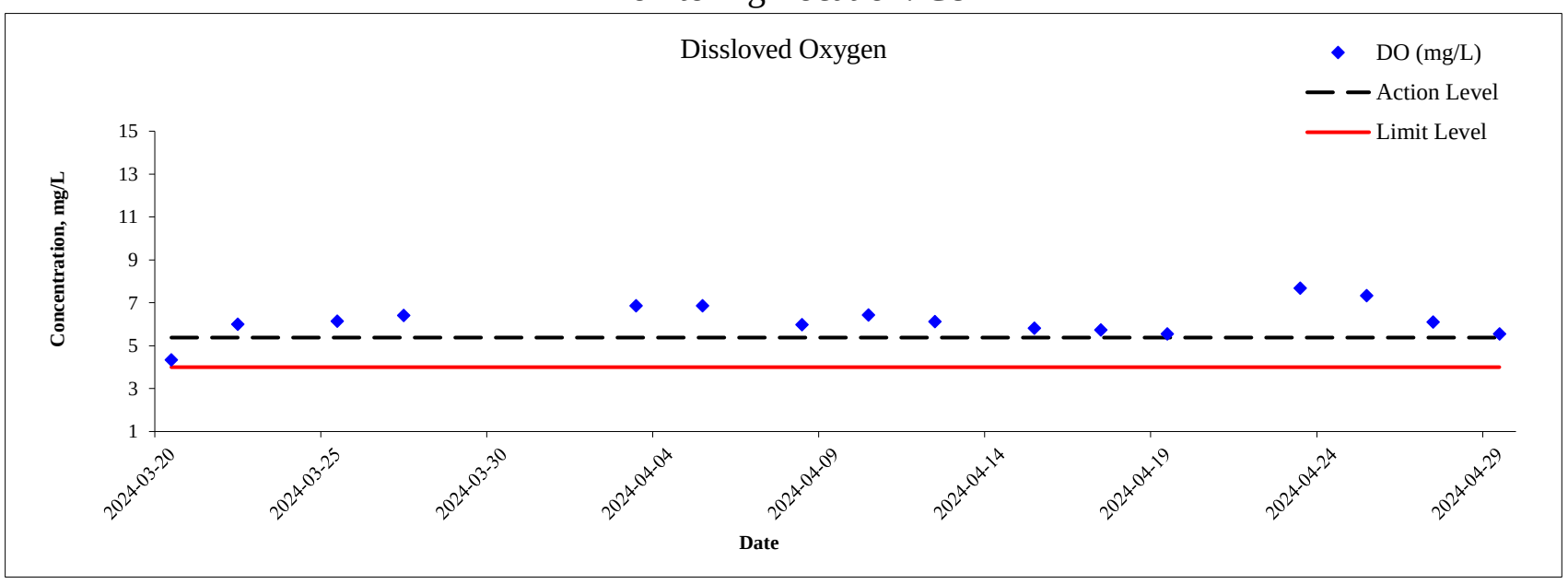
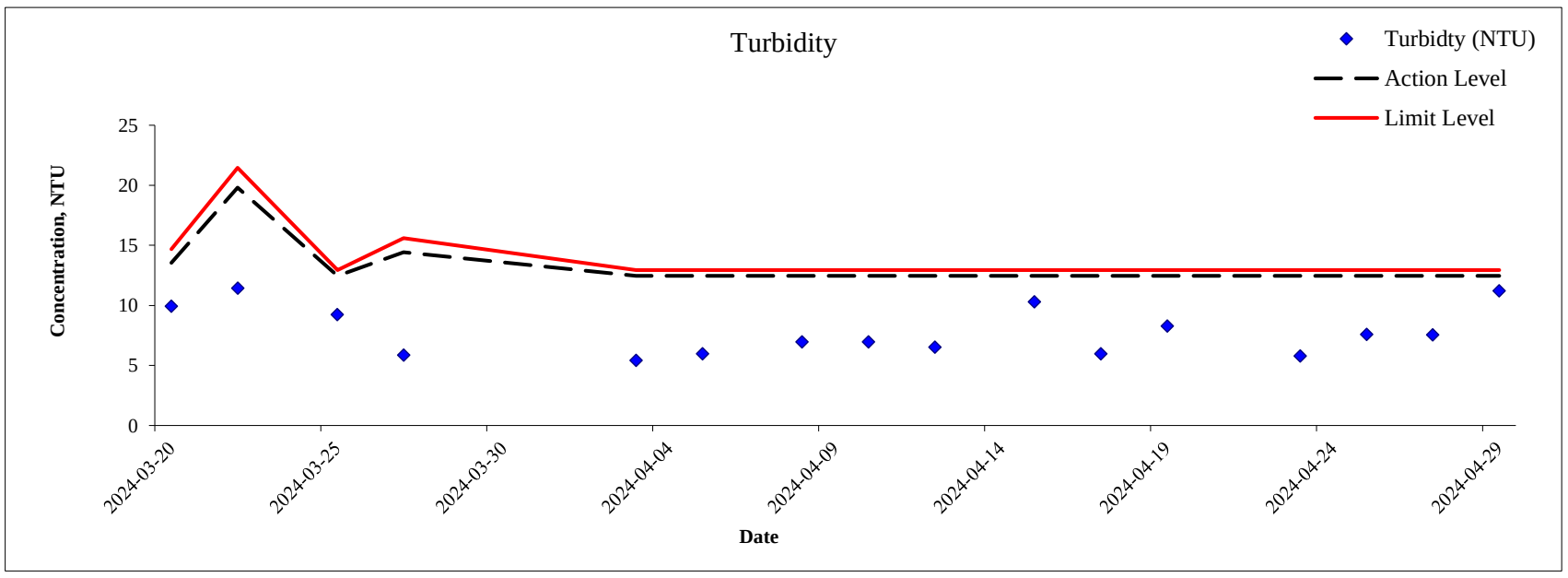
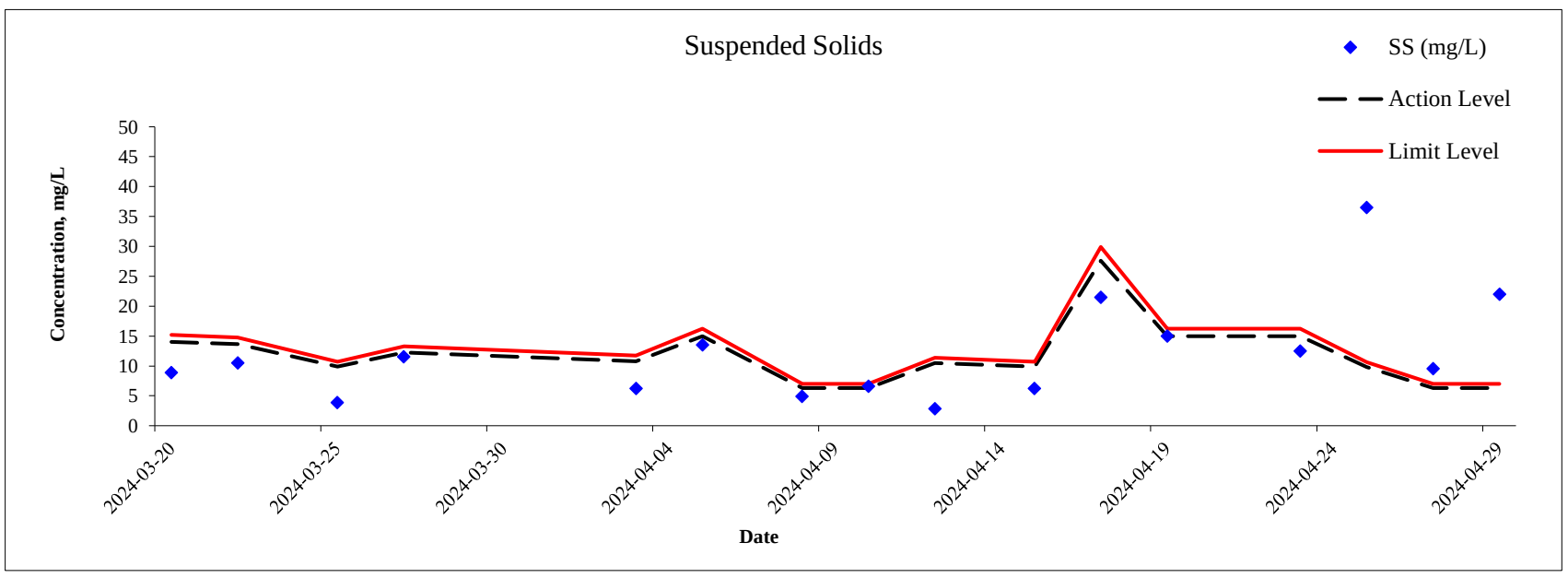
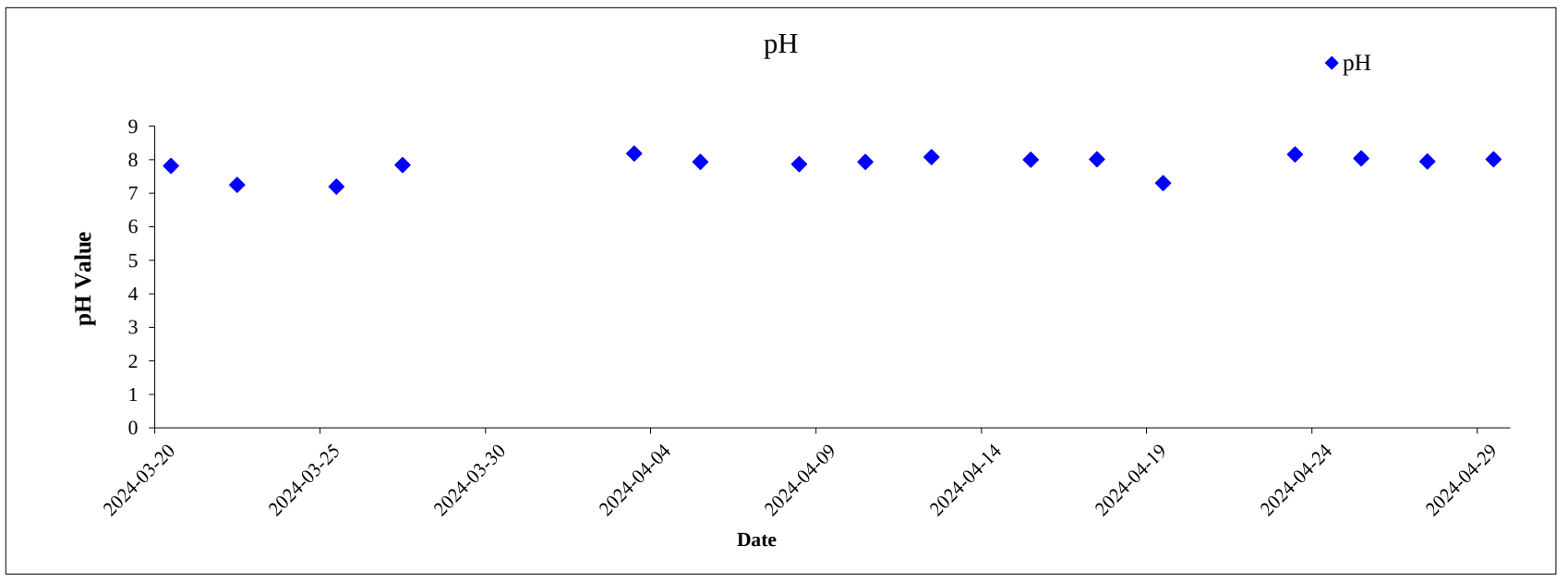
Water Quality Monitoring Result

Monitoring Location: C8









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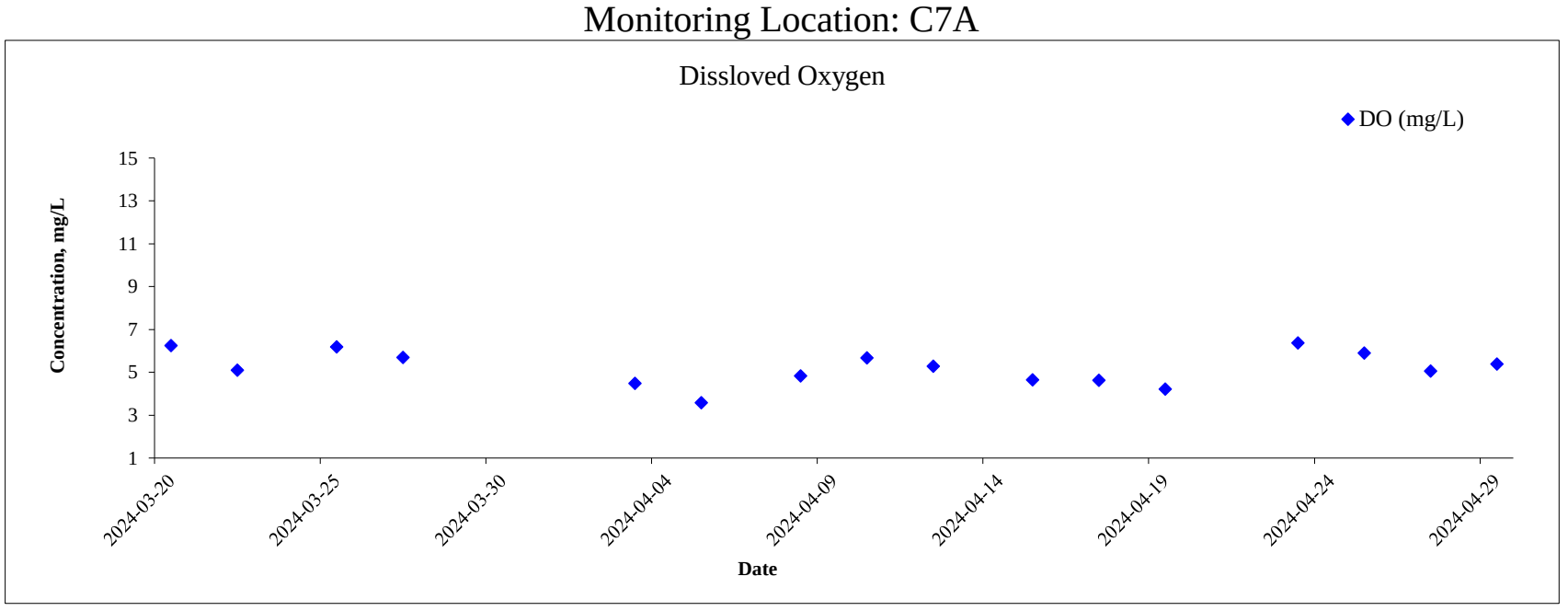
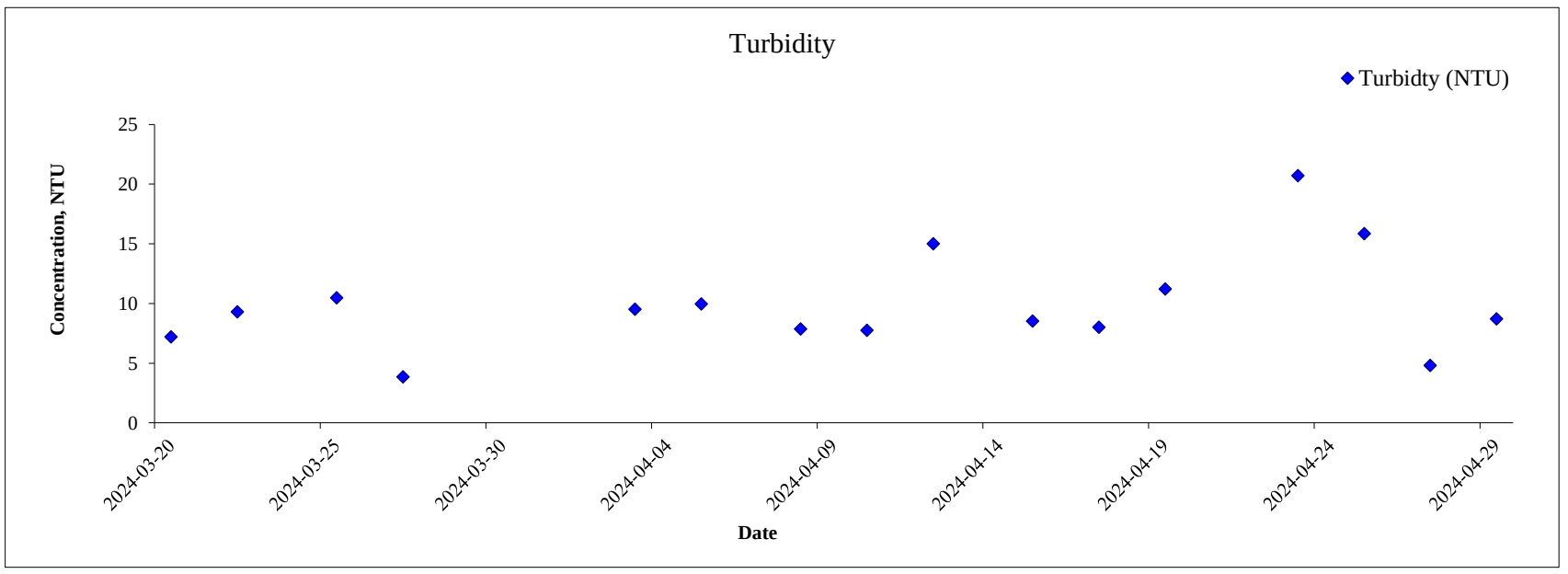
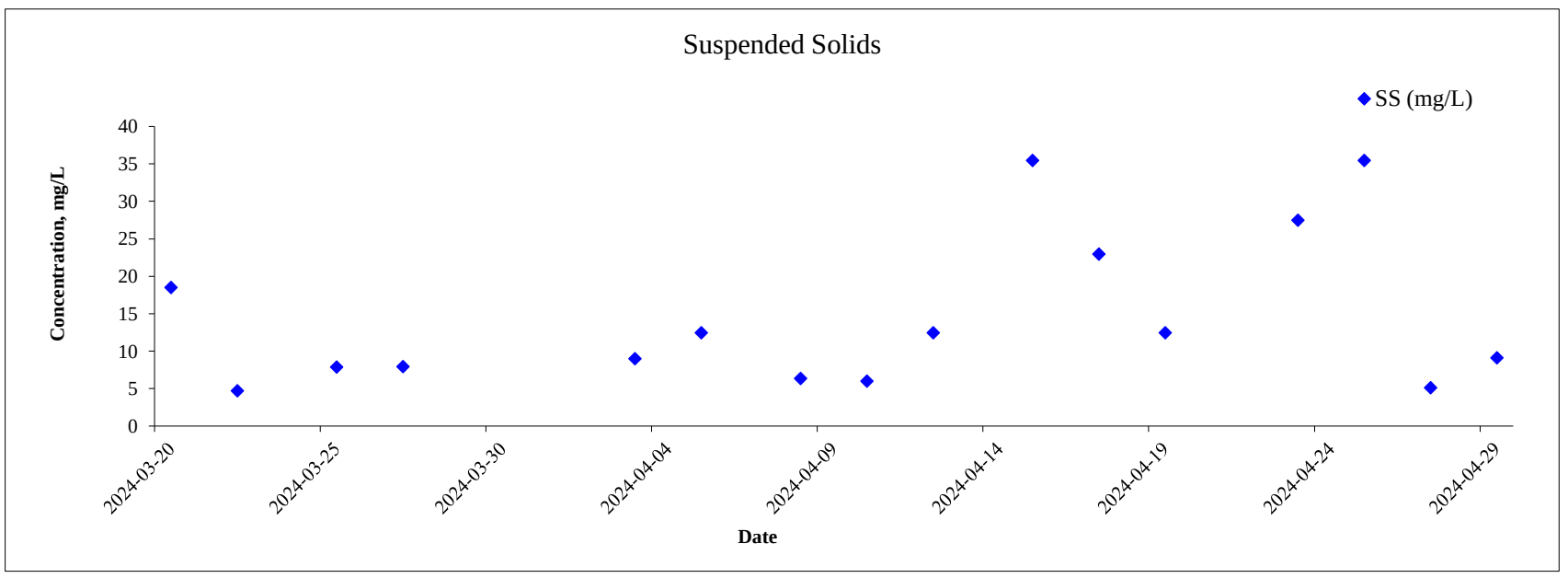
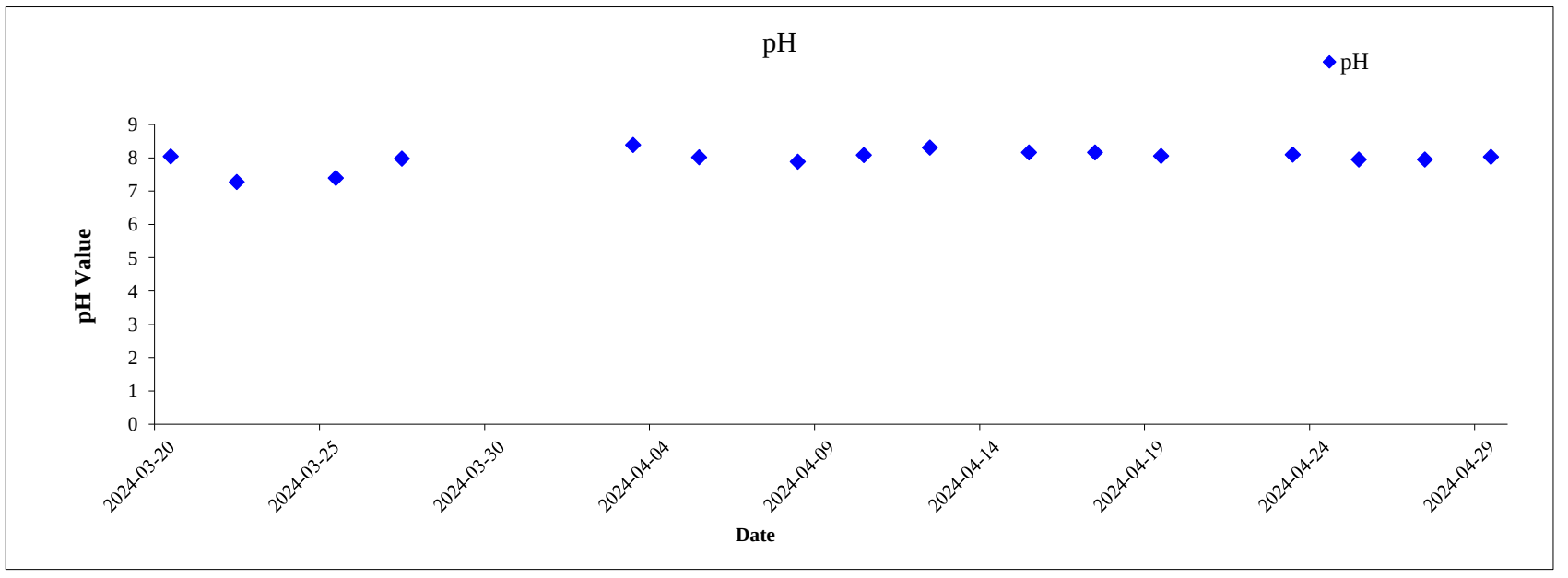
Water Quality Monitoring Result

Monitoring Location: C7A









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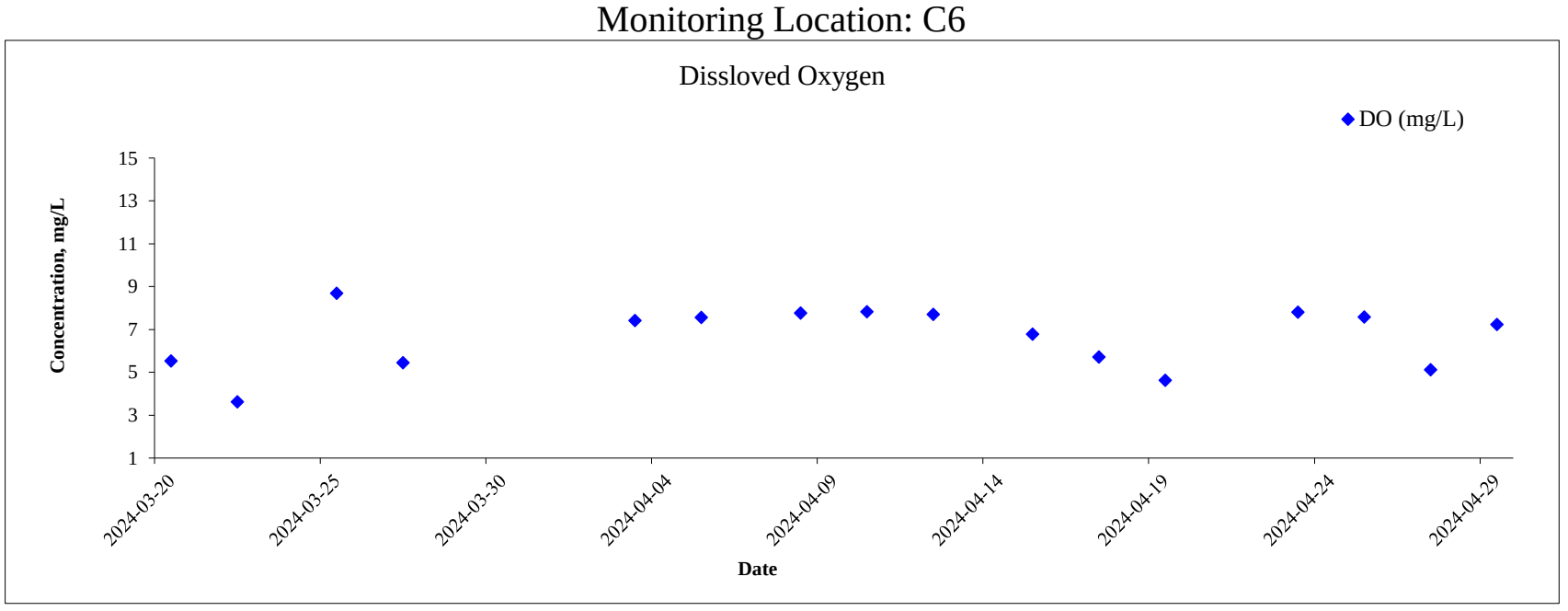
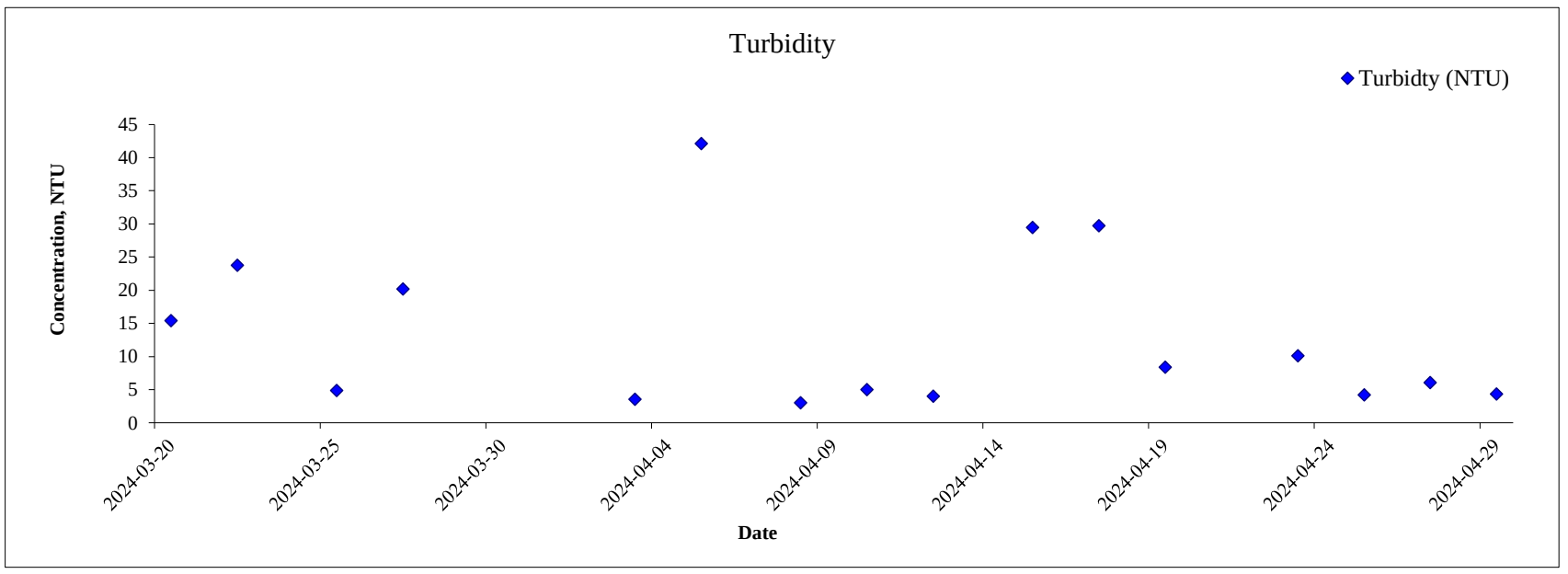
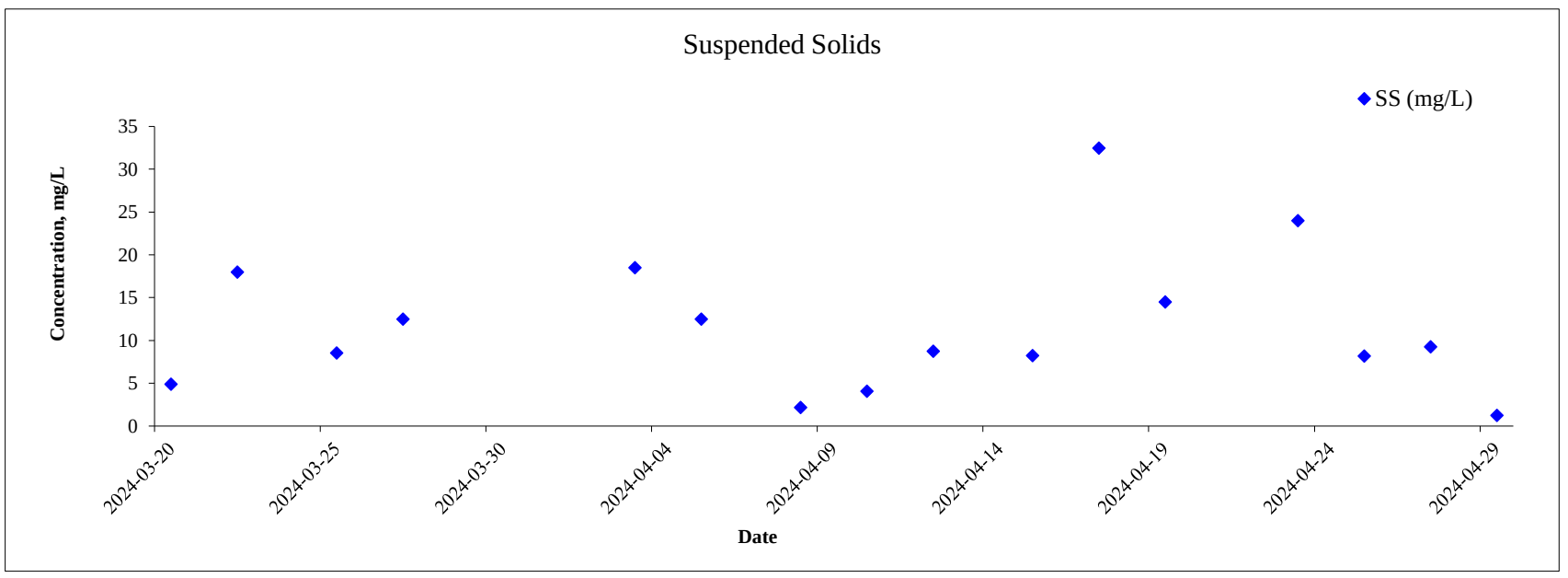
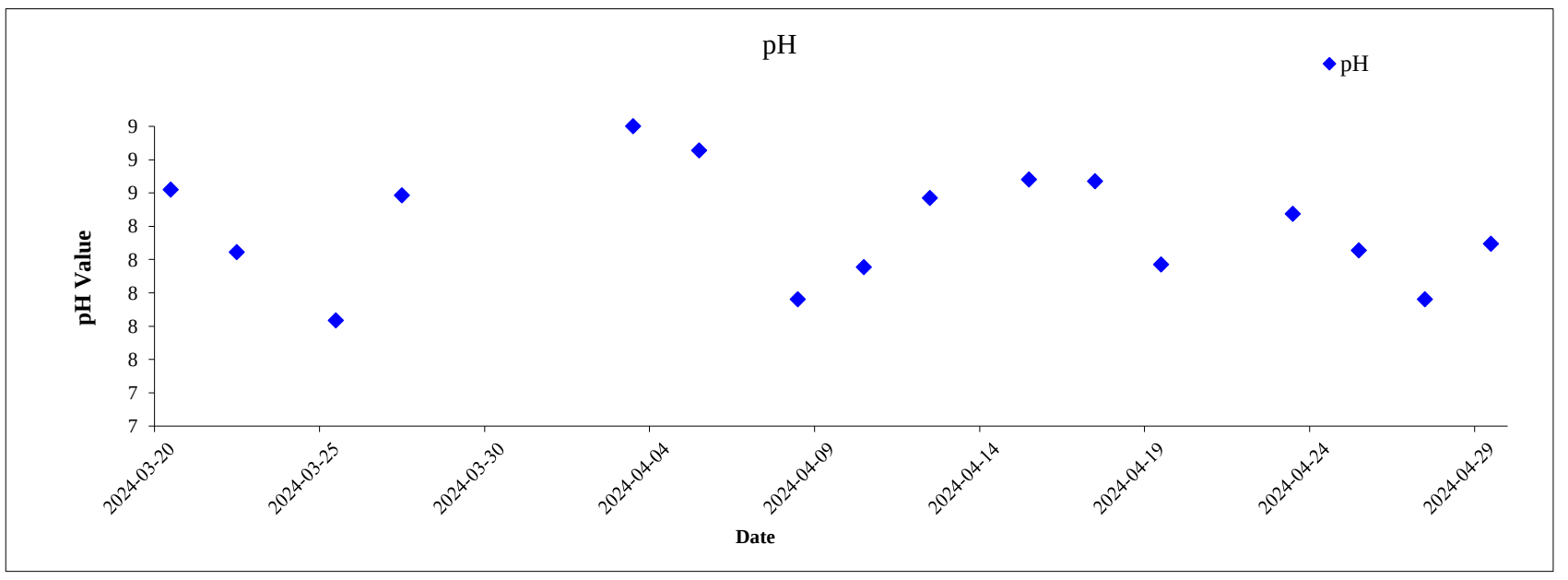
Water Quality Monitoring Result

Monitoring Location: C6



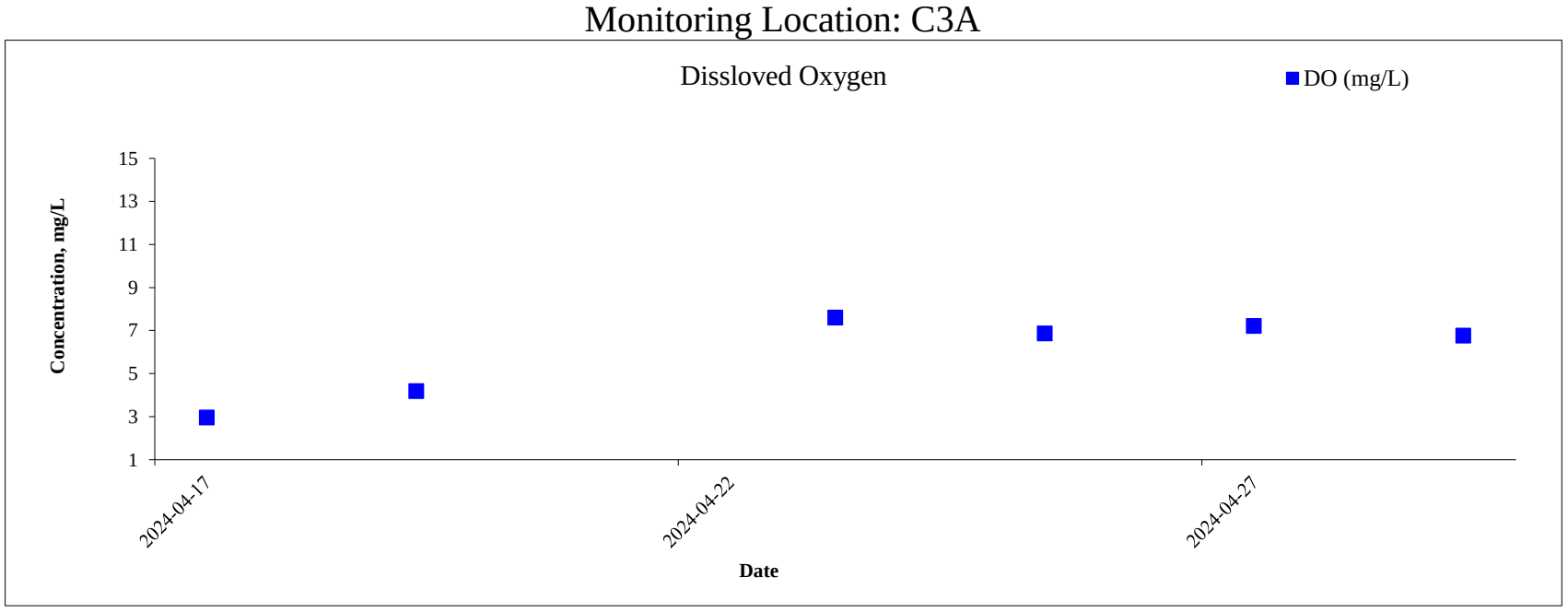


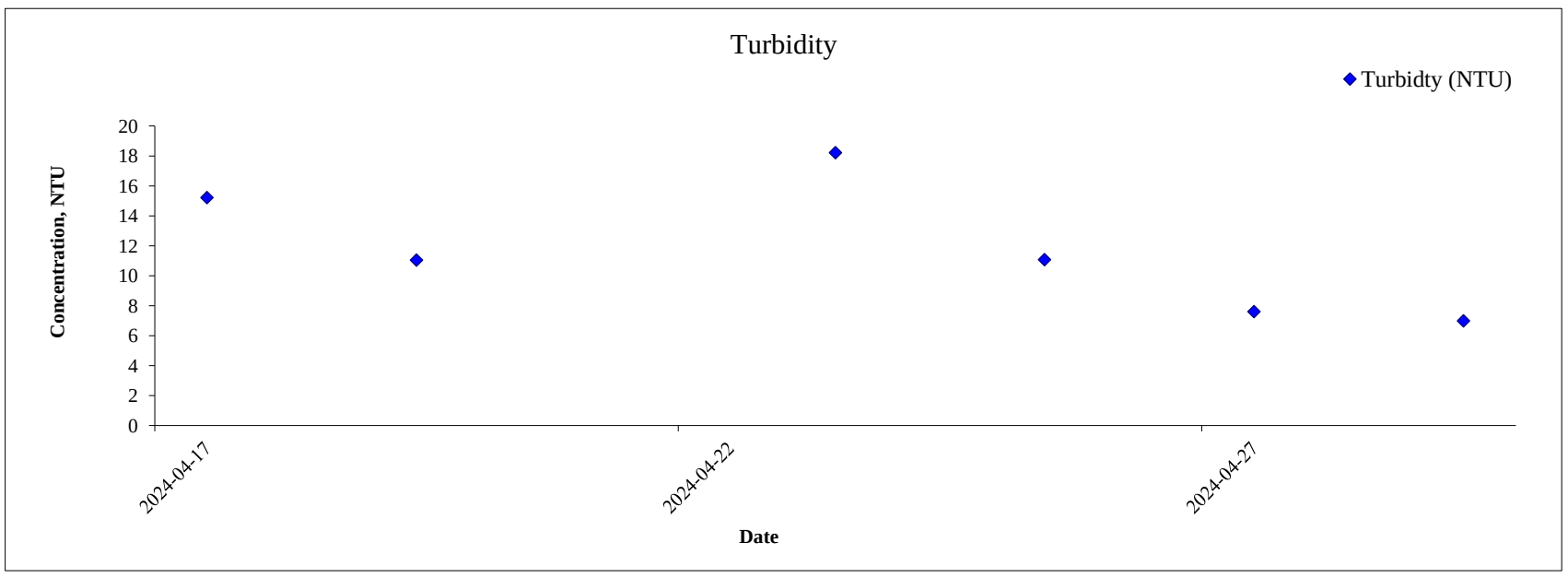


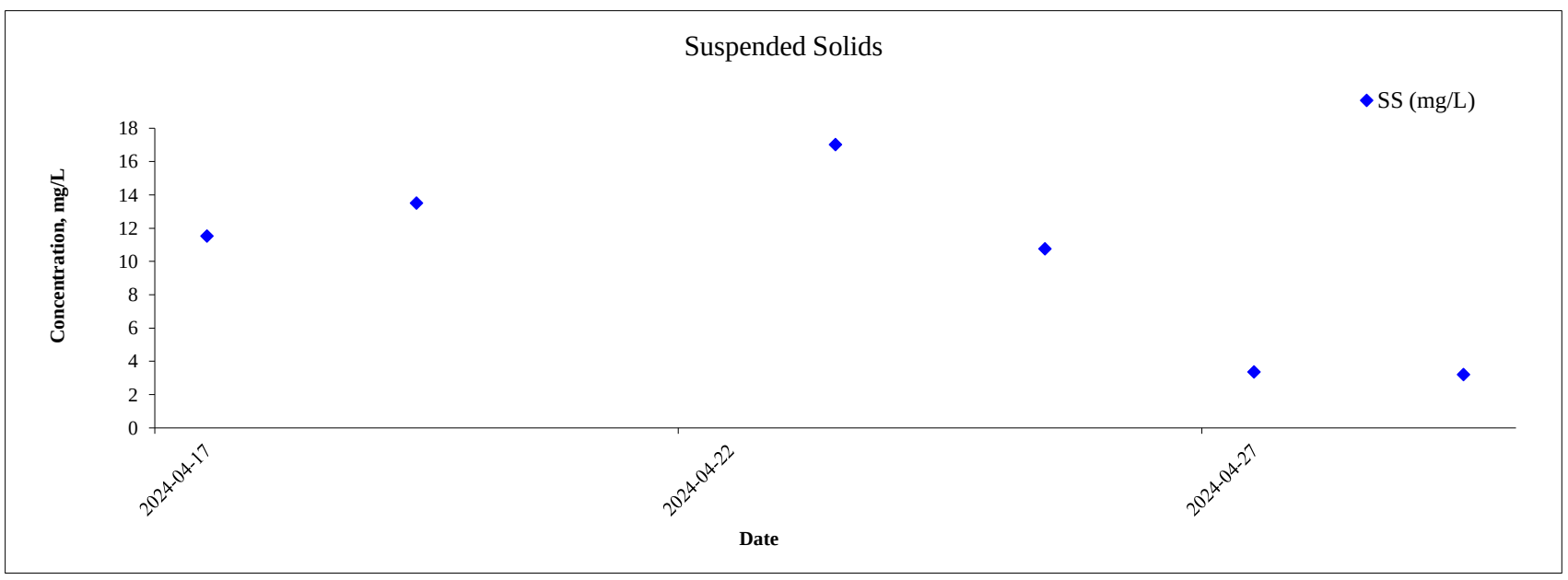


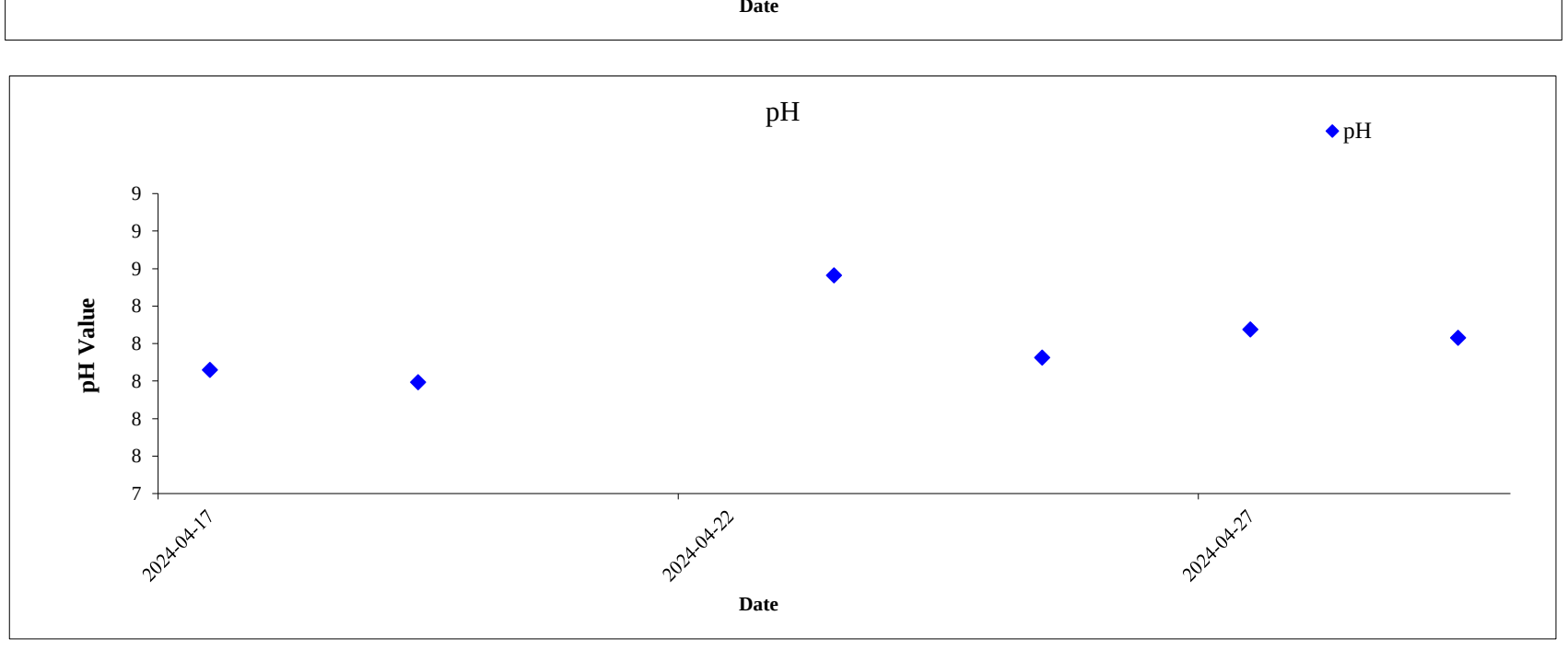
Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Monitoring Location: C3A



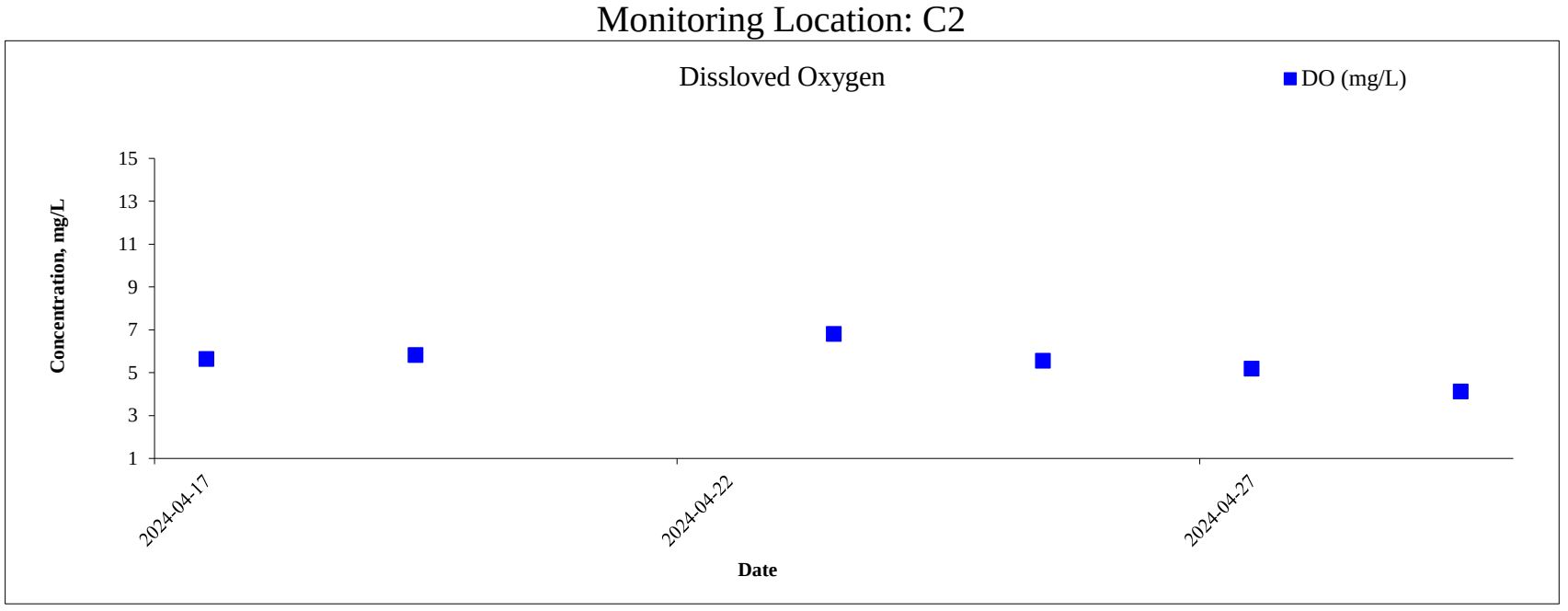


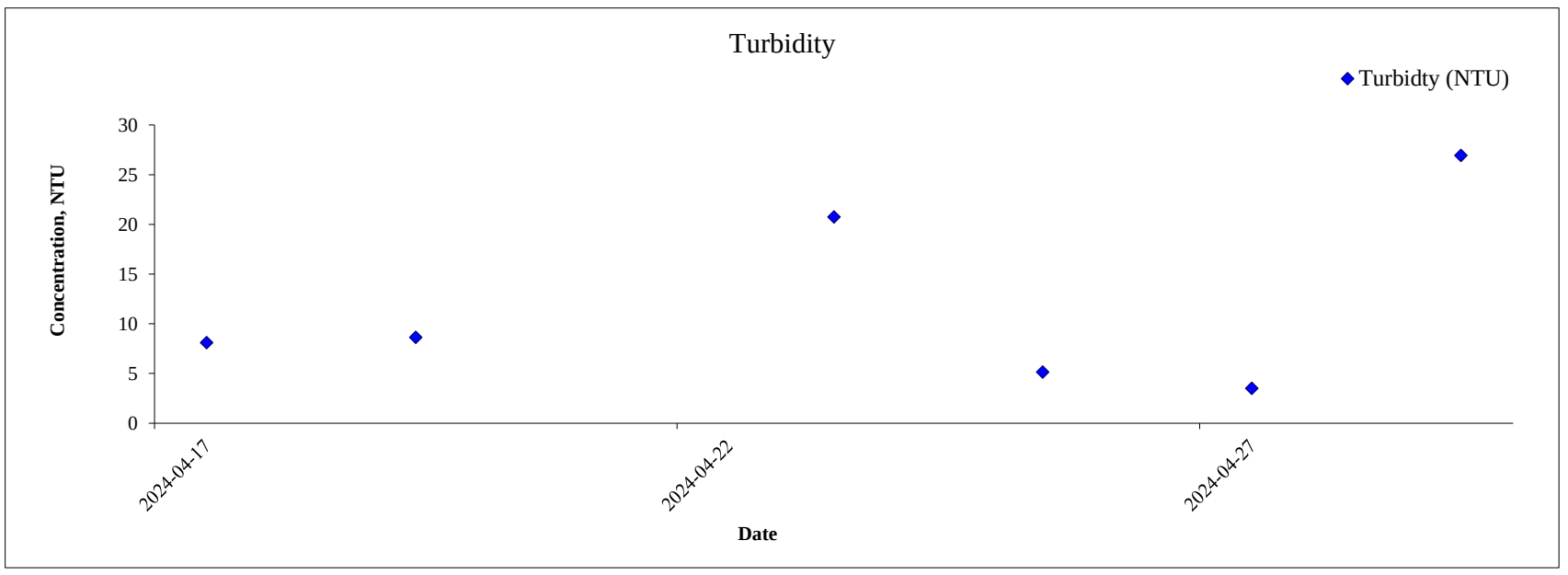


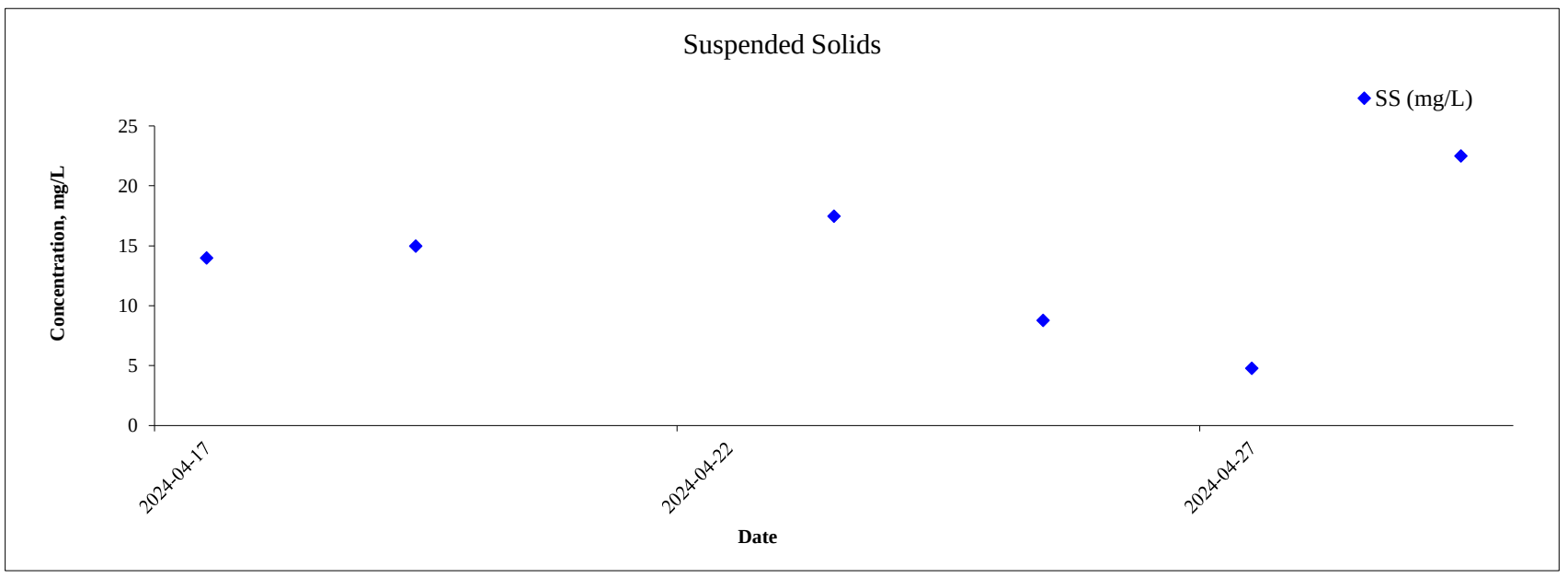


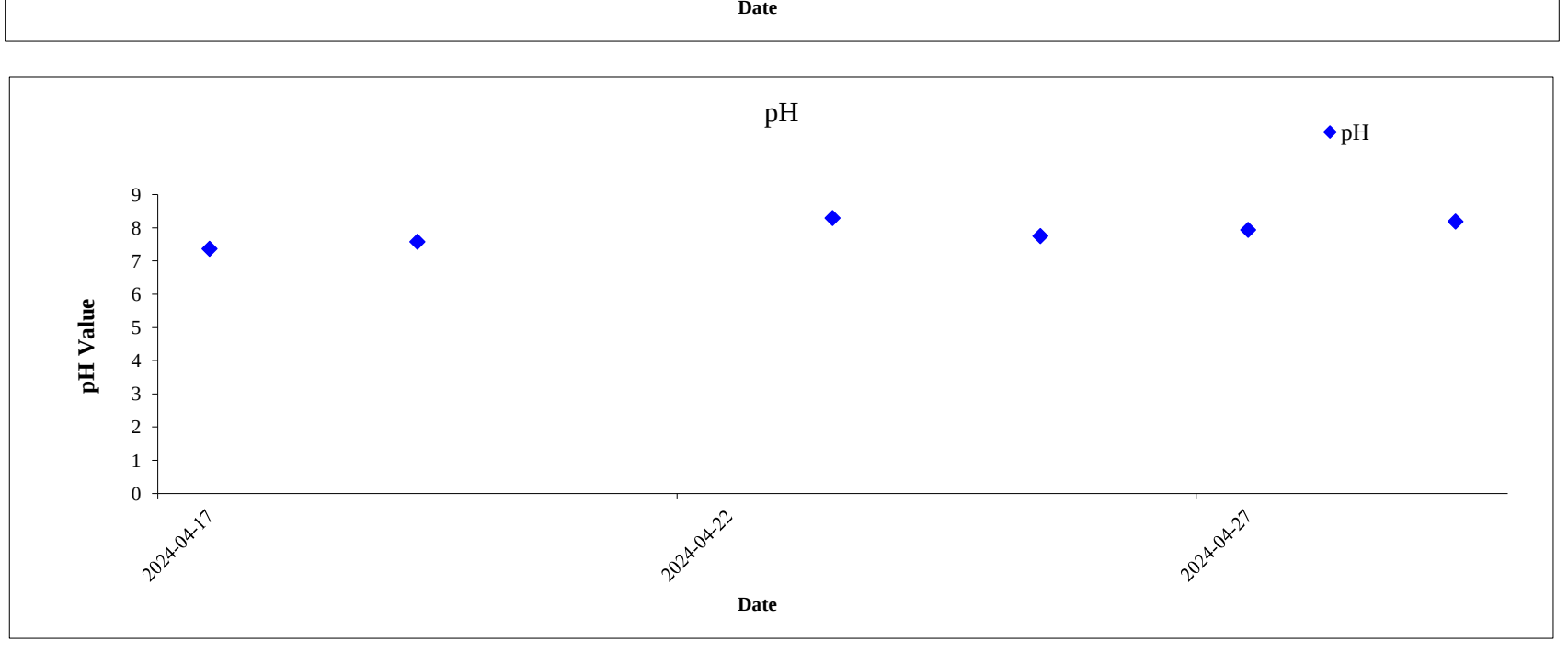
Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Monitoring Location: C2



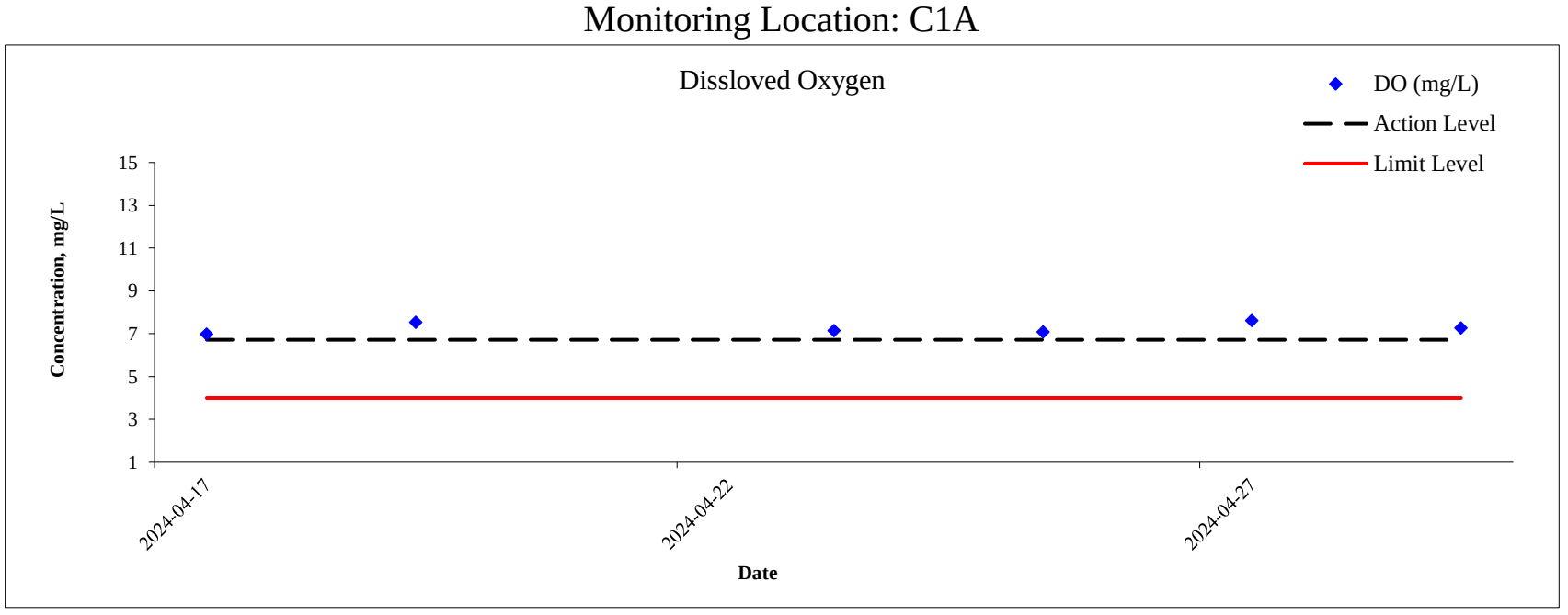


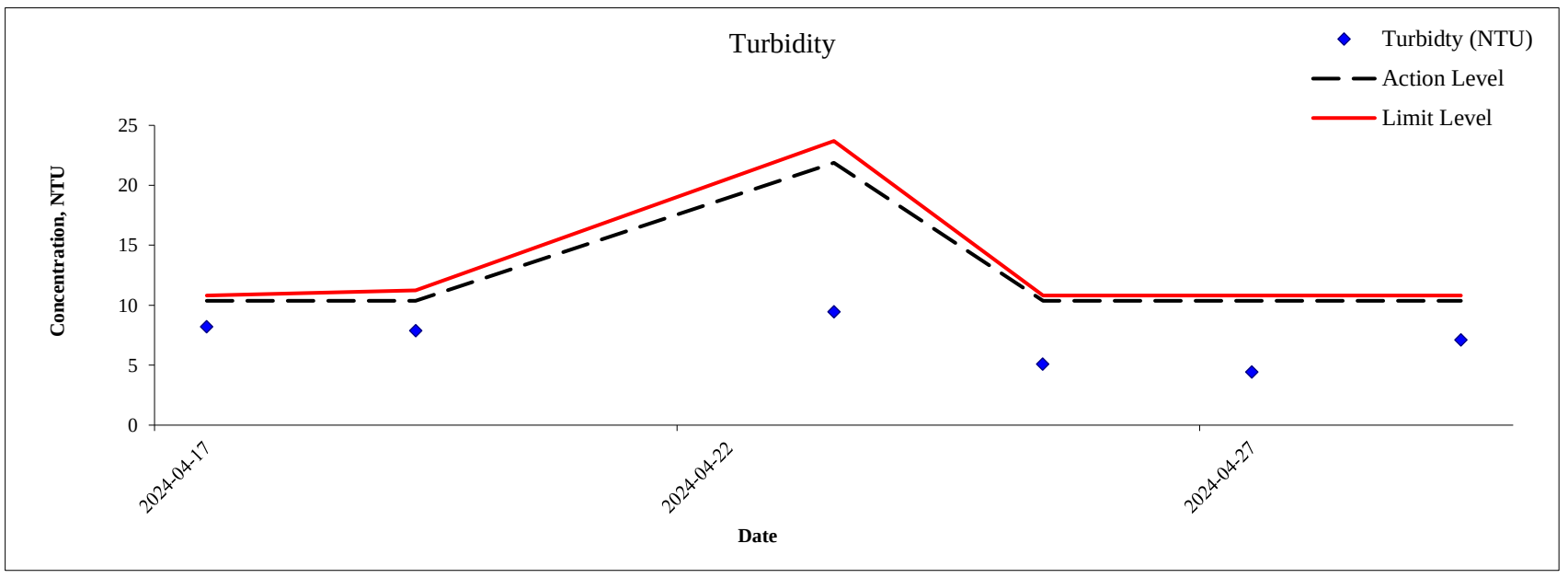


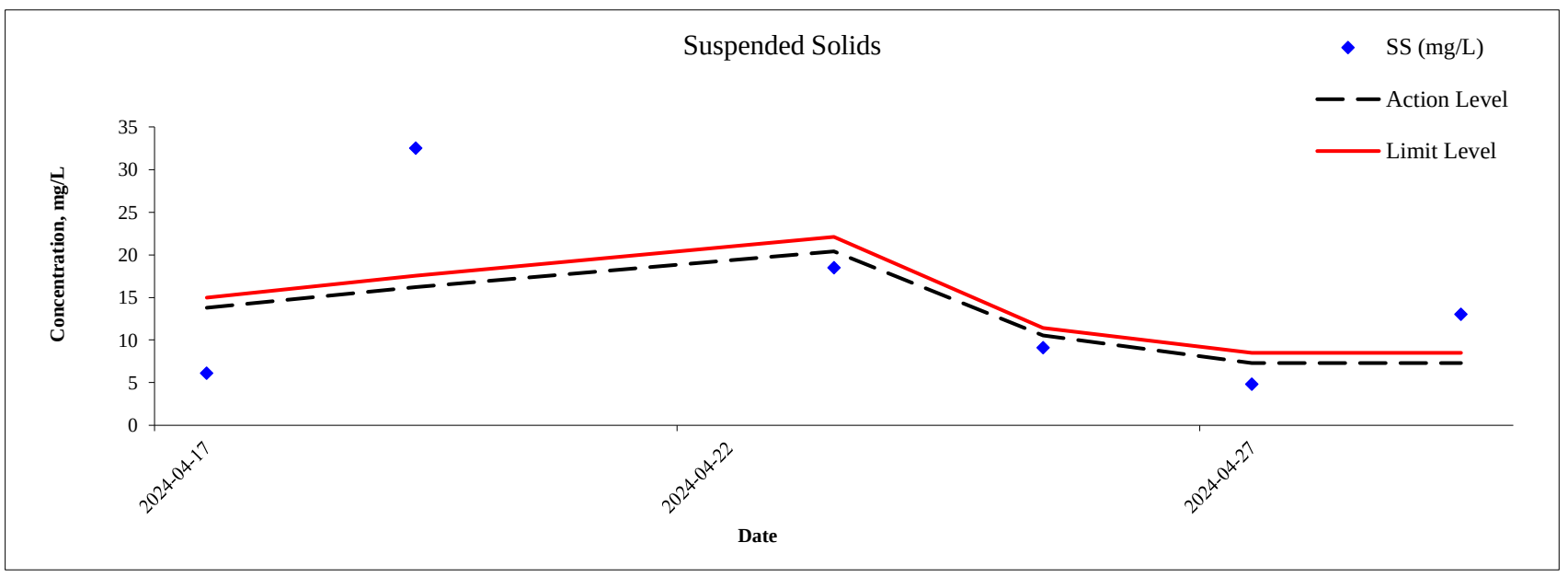


Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result

Monitoring Location: C1A







Appendix 3.1 Calibration Certificates of Impact Noise Monitoring Equipment

AC8

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***34724244***

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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

*Calibrated by:*_____
Calibration Technician

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

Date of issue: **3 August 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:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

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	AV220120	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	94.0

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

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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:	***SVANTEK***
Type No.:	***SVAN 971 (Serial No.:C132269)***
Microphone:	***ACO 7052 E (Serial No.: 85230)***
Preamplifier:	***SVANTEK SV-18 (Serial No.:C122483)***

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: 19 October 2023

Date of calibration: 26 October 2023

Date of NEXT calibration: 25 October 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: *27* **October 2023**

Certificate No.: APJ23-091-CC003

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

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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:	22.6 °C
Air Pressure:	1016 hPa
Relative Humidity:	65.3 %

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 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.3	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.3	Ref
			104		104.3	±0.3
			114		114.3	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.3	Ref
		Slow			94.3	±0.3

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dB SPL	Fast	94	31.5	94.6	±2.0
				63	95.2	±1.5
				125	94.5	±1.5
				250	94.3	±1.4
				500	94.3	±1.4
				1000	94.3	Ref
				2000	94.5	±1.6
				4000	94.2	±1.6
				8000	91.1	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	31.5	55.3	-39.4 ±2.0
				63	68.4	-26.2 ±1.5
				125	78.3	-16.1 ±1.5
				250	85.7	-8.6 ±1.4
				500	91.1	-3.2 ±1.4
				1000	94.3	Ref
				2000	95.3	+1.2 ±1.6
				4000	94.9	+1.0 ±1.6
				8000	89.8	-1.1 +2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBC SPL	Fast	94	31.5	91.7	-3.0 ±2.0
				63	94.4	-0.8 ±1.5
				125	94.3	-0.2 ±1.5
				250	94.3	-0.0 ±1.4
				500	94.3	-0.0 ±1.4
				1000	94.3	Ref
				2000	94.3	-0.2 ±1.6
				4000	93.4	-0.8 ±1.6
				8000	88.3	-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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Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***SVANTEK***
Type No.:	***971 (Serial No.: 96062)***
Microphone:	***13905***
Preamplifier:	***SVANTEK SV 18 (Serial No.:C132231)***

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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **3 August 2023**

Certificate No.: APJ23-049-CC001

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

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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: 22.6 **°C**
Air Pressure: 1006 **hPa**
Relative Humidity: 52.9 **%**

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 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

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

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dB SPL	Fast	94	31.5	94.3	±2.0
				63	94.2	±1.5
				125	94.1	±1.5
				250	94.1	±1.4
				500	94.0	±1.4
				1000	94.0	Ref
				2000	93.7	±1.6
				4000	93.1	±1.6
				8000	91.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dBA SPL	Fast	94	31.5	55.3	-39.4 ±2.0
				63	68.2	-26.2 ±1.5
				125	78.0	-16.1 ±1.5
				250	85.4	-8.6 ±1.4
				500	90.8	-3.2 ±1.4
				1000	94.0	Ref
				2000	94.9	+1.2 ±1.6
				4000	94.1	+1.0 ±1.6
				8000	90.9	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25.0-124.2	dBC SPL	Fast	94	31.5	91.3	-3.0 ±2.0
				63	93.3	-0.8 ±1.5
				125	93.9	-0.2 ±1.5
				250	94.0	-0.0 ±1.4
				500	94.0	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.6	-0.2 ±1.6
				4000	92.4	-0.8 ±1.6
				8000	89.1	–3.0 +2.1: –3.1

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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 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	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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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)		
05/04/2024	8:34	-	9:04	Fine	64.2	64.4	63.7	67.1	66.9	68.4	66.1	69.1
12/04/2024	8:12	-	8:42	Sunny	65.9	65.1	68.7	67.9	67.4	67.7	67.3	70.3
19/04/2024	8:57	-	9:27	Cloudy	64.4	63.8	65.4	64.7	64.9	64.4	64.6	67.6
26/04/2024	8:29	-	8:59	Cloudy	65.7	64.1	64.4	64.9	66.2	65.1	65.1	68.1
											Max	**Min**
											70.3	67.6

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)	
05/04/2024	9:11	-	9:41	Fine	67.8	68.1	68.9	69.4	68.8	68.1	68.6
12/04/2024	8:47	-	9:17	Sunny	69.4	68.1	68.8	68.3	67.9	67.2	68.3
19/04/2024	9:33	-	10:03	Cloudy	69.1	68.4	68.8	68.9	67.2	69.3	68.7
26/04/2024	9:02	-	9:32	Cloudy	66.9	67.4	68.2	68.7	68.2	69.5	68.2
										Max	**Min**
										68.7	68.2

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)	
05/04/2024	9:48	-	10:18	Fine	63.1	64.4	62.8	62.1	63.7	63.3	63.3
12/04/2024	9:22	-	9:52	Sunny	64.7	63.9	62.2	64.5	63.9	63.1	63.8
19/04/2024	10:07	-	10:37	Cloudy	64.2	65.7	64.1	63.5	63.3	64.8	64.3
26/04/2024	9:39	-	10:09	Cloudy	62.9	63.3	64.1	64.4	62.8	62.5	63.4
										Max	**Min**
										64.3	63.3

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 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)	
05/04/2024	13:46	-	14:16	Fine	58.4	57.6	59.1	57.4	57.2	58.1	58.0
12/04/2024	13:05	-	13:35	Sunny	59.6	57.1	57.7	58.4	58.8	59.4	58.6
19/04/2024	14:21	-	14:51	Cloudy	58.3	59.6	59.1	59.7	60.4	61.9	60.0
26/04/2024	13:51	-	14:21	Cloudy	58.6	59.3	60.2	58.8	59.4	59.9	59.4
										Max	**Min**
										60.0	58.0

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)		
05/04/2024	13:01	-	13:31	Fine	61.2	62.8	63.9	63.7	63.6	63.3	63.2	66.2
12/04/2024	11:24	-	11:54	Sunny	64.2	63.5	63.9	63.0	64.7	65.5	64.2	67.2
19/04/2024	13:36	-	14:06	Cloudy	64.1	63.6	63.3	63.7	65.2	65.4	64.3	67.3
26/04/2024	13:09	-	13:39	Cloudy	65.2	64.1	65.5	65.9	63.6	63.1	64.7	67.7
											Max	**Min**
											67.7	66.2

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)	
05/04/2024	11:14	-	11:44	Fine	65.4	64.1	63.3	63.9	63.7	65.5	64.4
12/04/2024	10:47	-	11:17	Sunny	64.1	62.8	62.3	63.8	65.4	64.9	64.0
19/04/2024	13:02	-	13:32	Cloudy	65.8	65.4	64.7	64.7	62.9	64.1	64.7
26/04/2024	11:34	-	12:04	Cloudy	64.0	65.8	66.4	65.9	65.6	67.7	66.0
										Max	**Min**
										66.0	64.0

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)	
05/04/2024	10:36	-	11:06	Fine	59.8	60.0	61.2	58.9	60.3	61.1	60.3
12/04/2024	10:09	-	10:39	Sunny	60.3	60.7	61.5	61.1	59.4	59.9	60.5
19/04/2024	11:22	-	11:52	Cloudy	61.4	59.8	59.4	58.8	59.1	59.1	59.7
26/04/2024	10:56	-	11:26	Cloudy	60.4	60.9	61.2	60.8	61.4	61.5	61.0
										Max	**Min**
										61.0	59.7

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

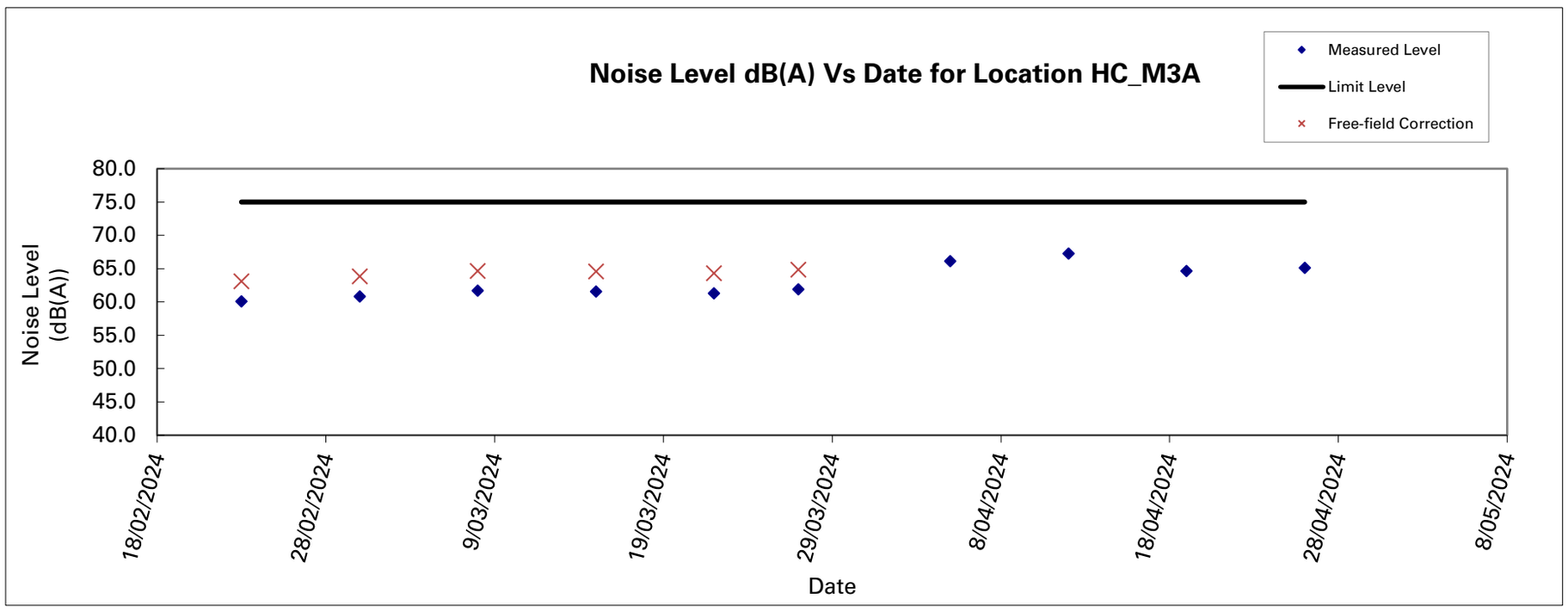
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
19/04/2024	15:11	-	15:41	Cloudy	61.2	60.7	59.6	59.9	60.1	60.4	60.3
26/04/2024	16:47	-	17:17	Cloudy	60.8	61.1	60.3	61.5	59.4	60.7	60.7
										Max	**Min**
										60.7	60.3

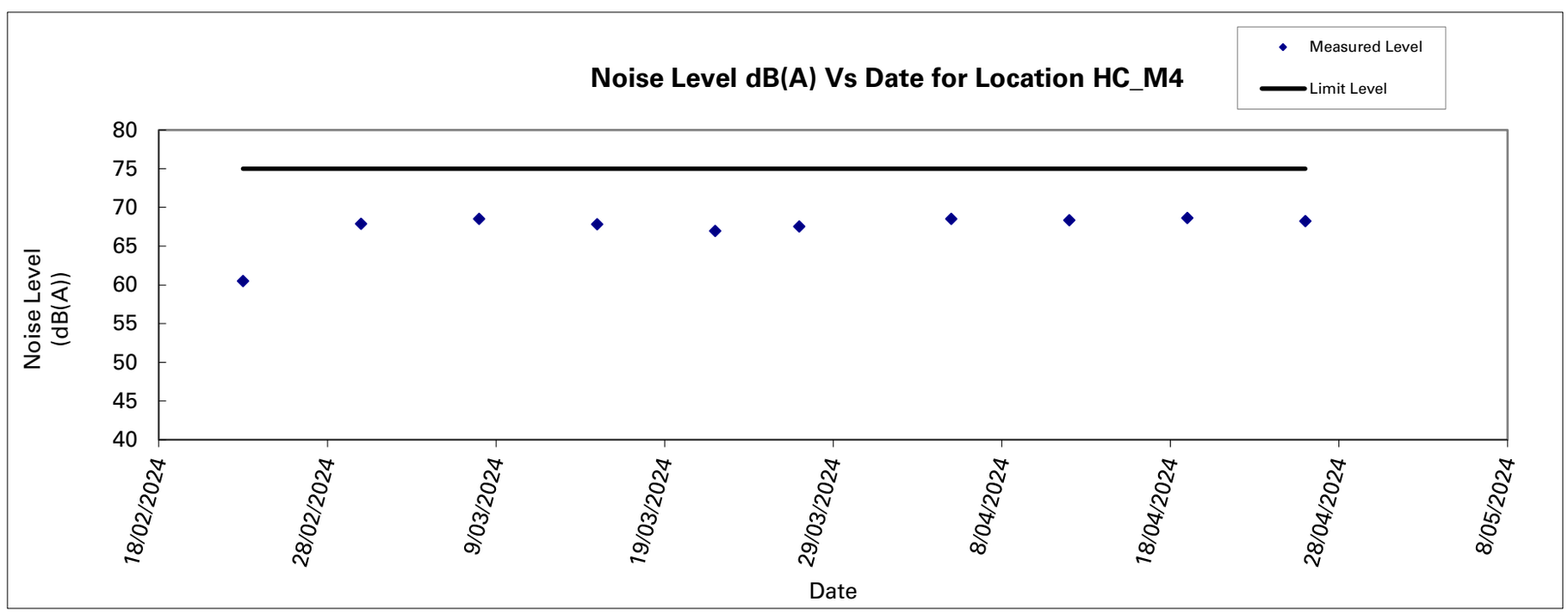
Noise Level Results at SSNV_M3

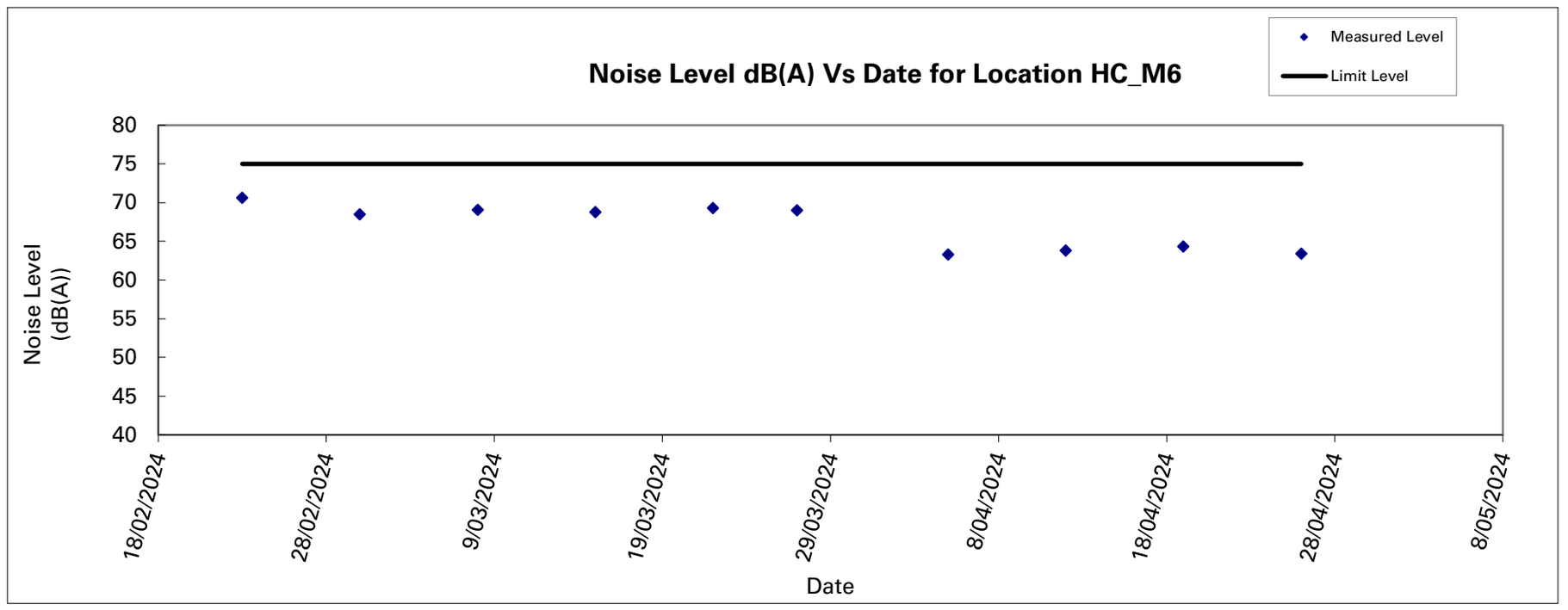
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	
19/04/2024	16:23	-	16:53	Cloudy	62.3	64.1	63.9	63.3	63.7	64.1	63.6
26/04/2024	16:09	-	16:39	Cloudy	65.9	64.8	64.4	62.7	63.0	62.3	64.0
										Max	**Min**
										64.0	63.6

Noise Level Results at SSNV_M6

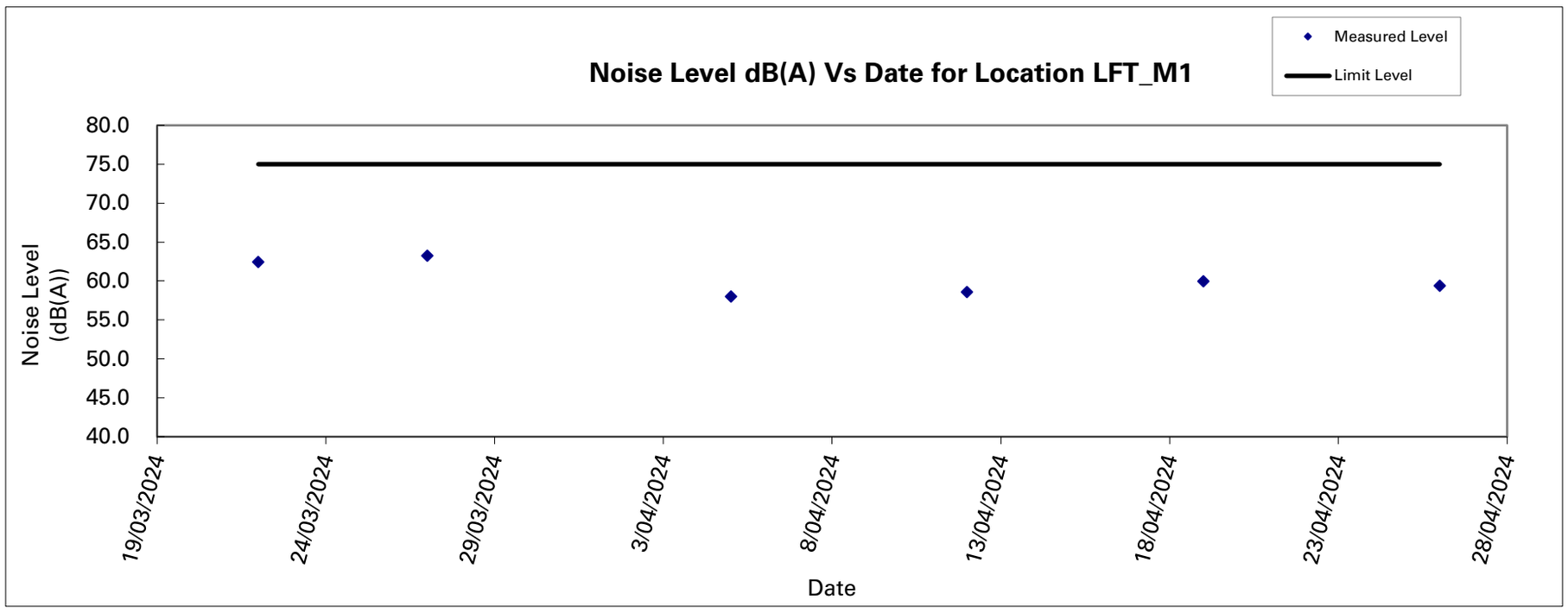
Date	Time			Weather	Leq-5min, dB(A)						Leq-30min, dB(A)	Leq-30min with free-field correction, dB(A)
					Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)		
19/04/2024	15:46	-	16:16	Cloudy	59.6	60.3	61.7	61.1	60.2	59.9	60.5	63.5
26/04/2024	15:29	-	15:59	Cloudy	59.9	60.5	60.1	59.7	58.6	59.3	59.7	62.7
											Max	**Min**
											63.5	62.7

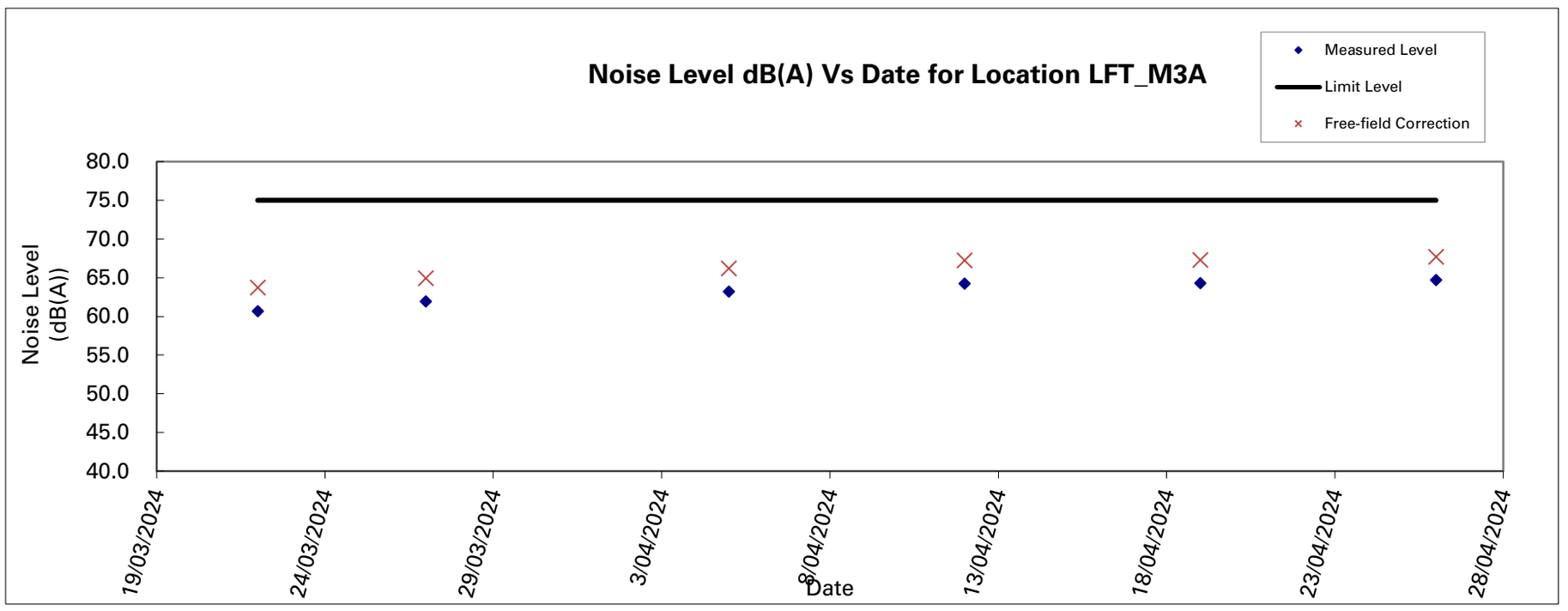

Noise Level dB(A) Vs Date for Location HC_M3A
Measured Level
Limit Level
Free-field Correction
Noise Level (dB(A))
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
18/02/2024
28/02/2024
9/03/2024
19/03/2024
29/03/2024
8/04/2024
18/04/2024
28/04/2024
8/05/2024
Date

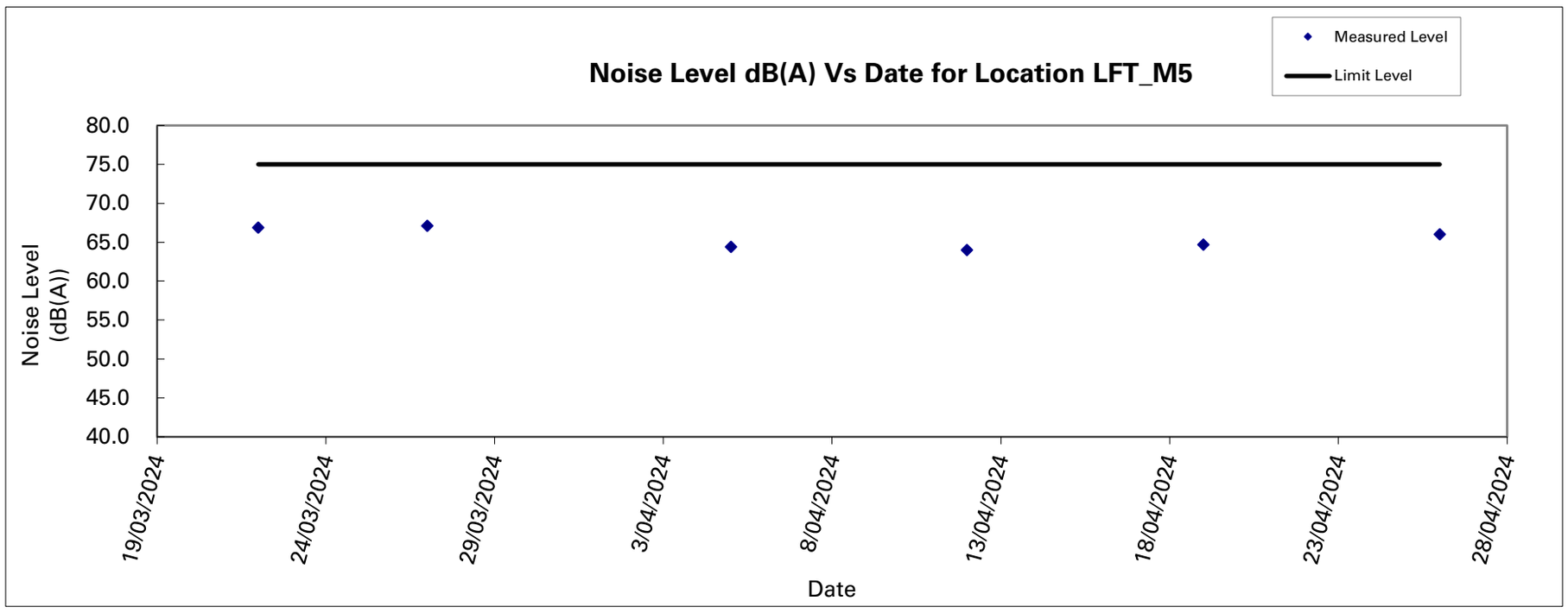

Noise Level dB(A) Vs Date for Location HC_M4
Measured Level
Limit Level
Noise Level (dB(A))
80
75
70
65
60
55
50
45
40
18/02/2024
28/02/2024
9/03/2024
19/03/2024
29/03/2024
8/04/2024
18/04/2024
28/04/2024
8/05/2024
Date


Noise Level dB(A) Vs Date for Location HC_M6
Measured Level
Limit Level
Noise Level (dB(A))
80
75
70
65
60
55
50
45
40
18/02/2024
28/02/2024
9/03/2024
19/03/2024
29/03/2024
8/04/2024
18/04/2024
28/04/2024
8/05/2024
Date

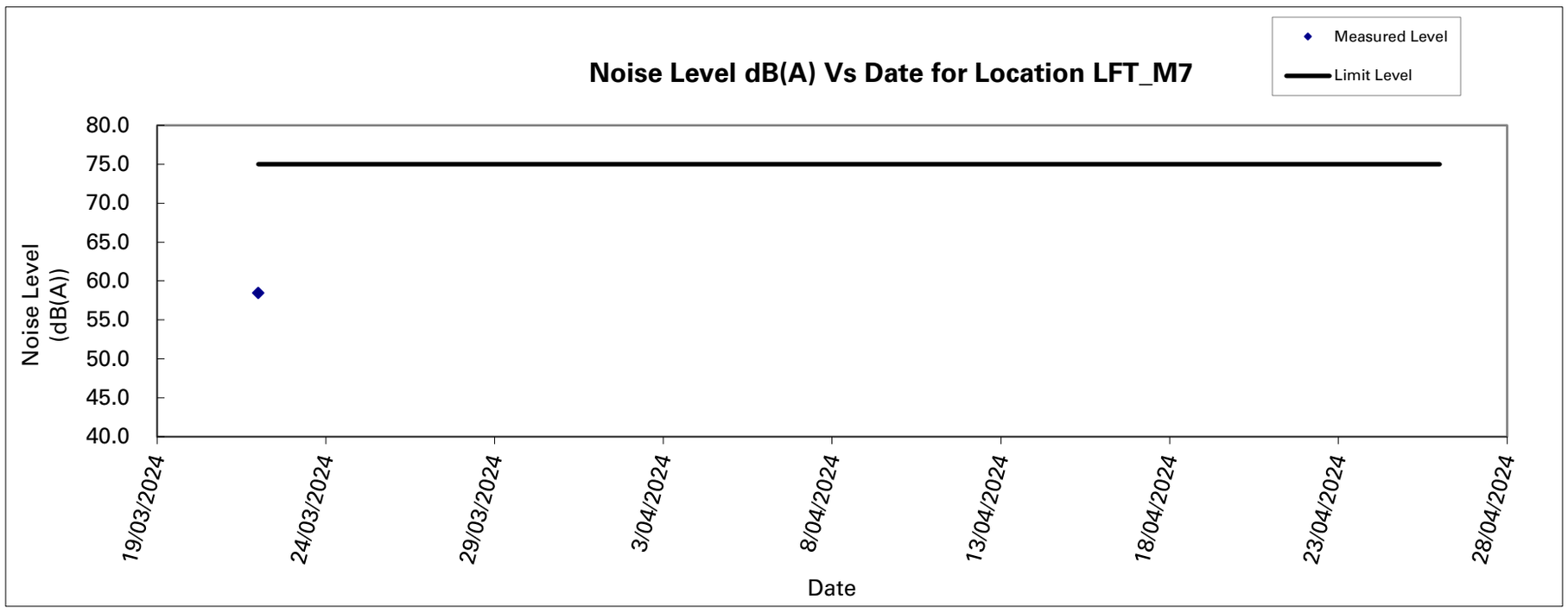
Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result

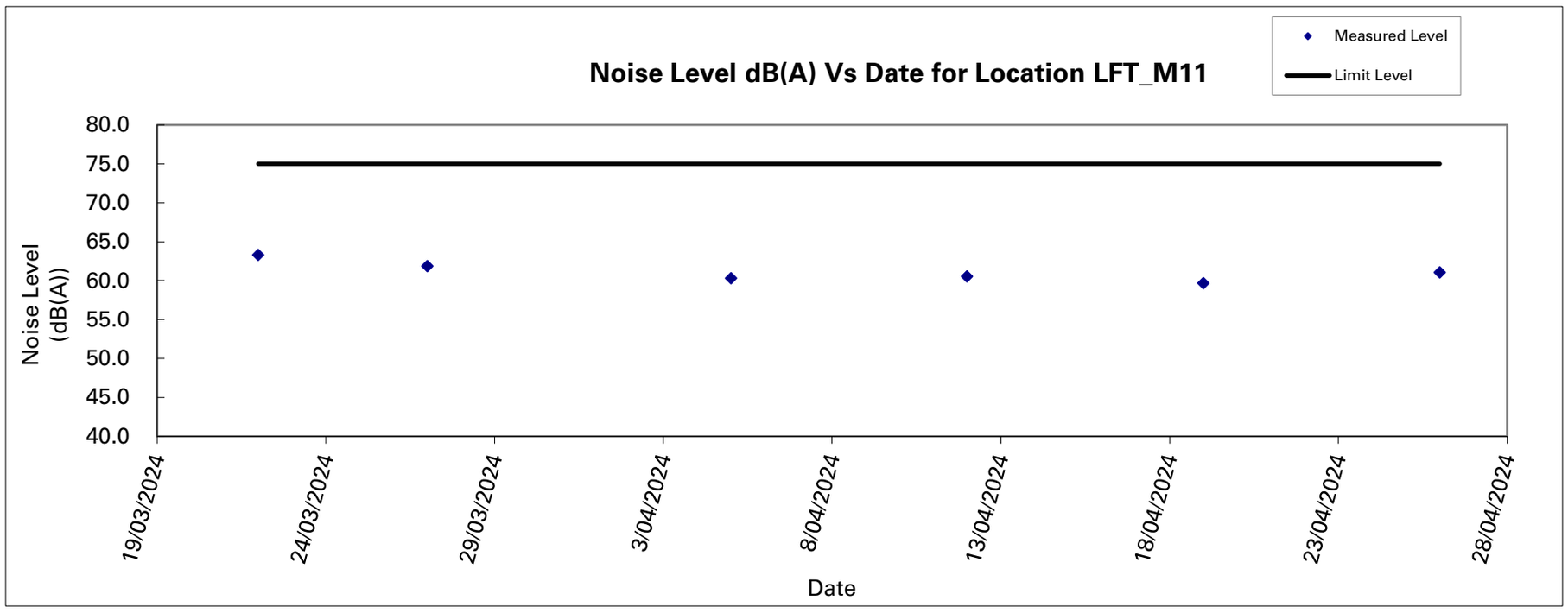




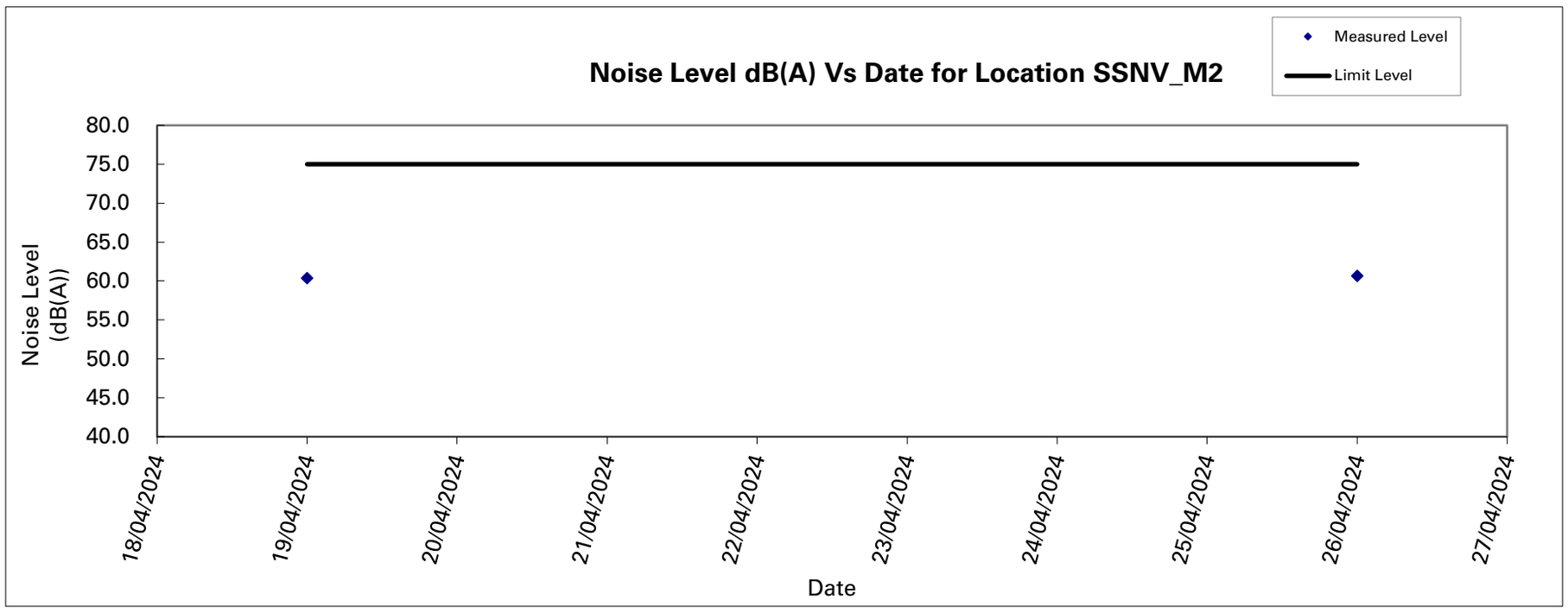


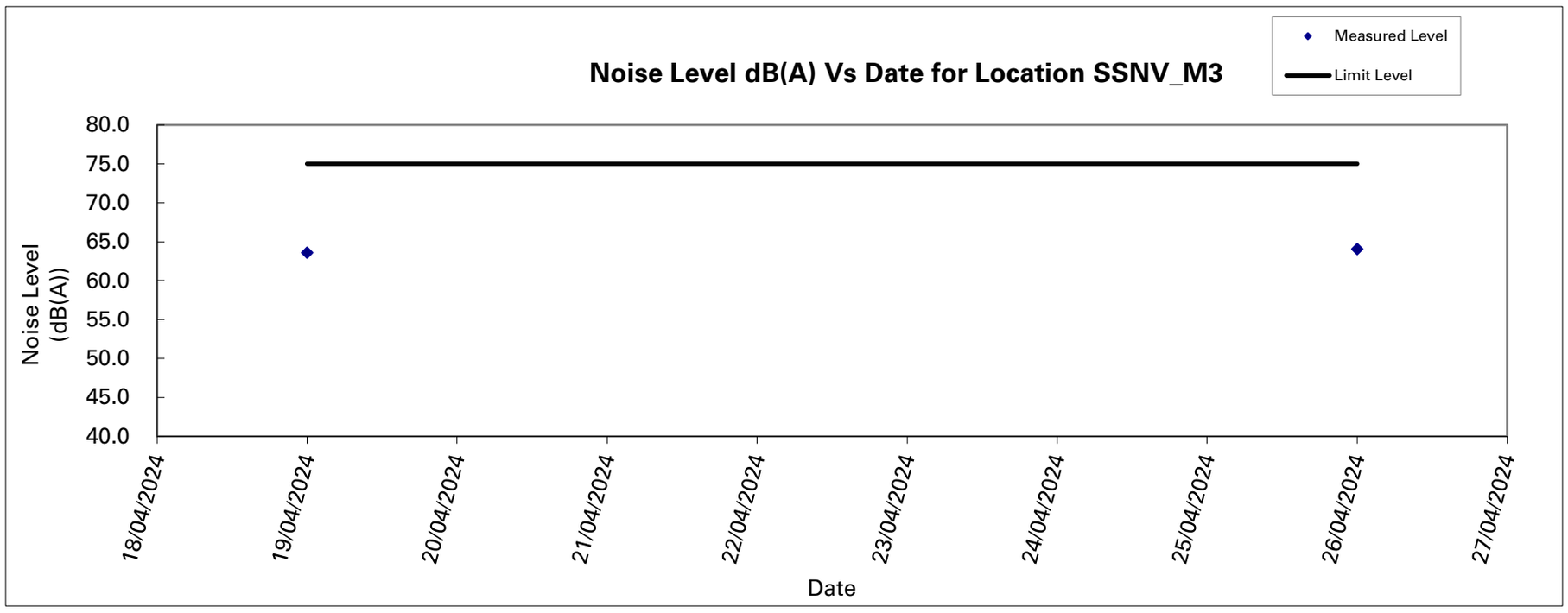
Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result

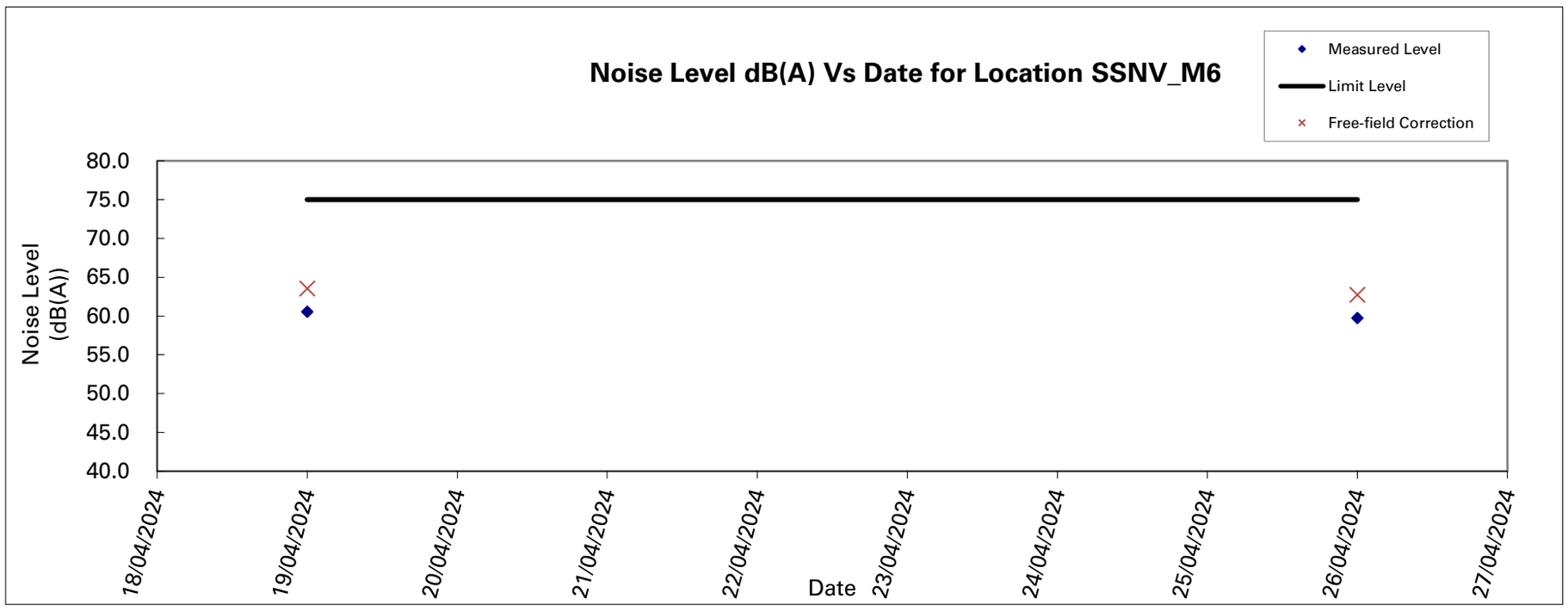




Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long -
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result







Appendix 5.1 Waste Flow Table

Appendix B

Contract No.: DC/2022/02

Monthly Summary Waste Flow Table

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity of Materials Generated	Hard Rock, Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 m^3)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m^3)
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Half Year Sub-total	**1.530**	**0.449**	**0.000**	**0.000**	**1.530**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.085**
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024 Total	**1.530**	**0.449**	**0.000**	**0.000**	**1.530**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.085**
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Half Year Sub-total	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025 Total	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
Accumulated Total	**1.530**	**0.449**	**0.000**	**0.000**	**1.530**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.085**

Remarks: 1 tonne = 2m^3

Appendix 10.1 Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 Apr 2024 - 30 Apr 2024	0	0	N/A

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 Apr 2024 - 30 Apr 2024	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 Apr 2024 - 30 Apr 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)

May 2024

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	3 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11	4 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
5	6	7 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	8	9 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	10 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11	11 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
12	13	14 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	15	16 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	17 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11	18 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
19	20	21 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	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_M7, and LFT_M11	25 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10
26	27	28 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	29	30 Water quality monitoring at C1A, C2, C3A, C6, C7A, C8, C9 and C10	31 Noise monitoring at SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11	

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_M7, 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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