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**Contract No. PM 10/2022 -
Independent Environmental Checker for Drainage Improvement Works at
Yuen Long – Stage 2**

Verification of Quarterly EM&A Report (Feb 2025 to Apr 2025)

30 July 2025

Dear Sir,

We refer to the Quarterly EM&A Report under the captioned Project, which was certified on 30 July 2025 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 Condition 1.9 and Section 12.3 under the Updated EM&A Manual.

Should you have any queries regarding the captioned, please contact our Hin Chan at 2828 5764 or the undersigned at 2828 5967.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



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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

Quarterly Environmental
Monitoring and Audit (EM&A)
Report – February 2025 to April
2025

**Wing Tat Civil Engineering Co.
Limited**

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Executive Summary

- A1. Drainage Services Department (DSD) has appointed Aurecon Hong Kong Limited (Aurecon) to undertake the Environmental Team services for the project and implement the EM&A works.
- A2. The construction works commenced on 20 February 2024.
- A3. This 5th Quarterly Environmental Monitoring and Audit (EM&A) Report is prepared for Contract No. DC/2022/02 Drainage Improvement Works at Yuen Long – Stage 2 (hereinafter called the “Contract”). The report summaries the findings of the EM&A programme during the reporting period from 1 February 2025 to 30 April 2025.

Key Construction Works in the Reporting Period

- A4. A summary of construction activities undertaken during the reporting period is presented below:

Ha Che

- Site clearance;
- Breaking ground;
- Temporary drainage diversion;
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting;
- Sheet piling & backfilling and compaction; and
- Removal of sheet piles, drain laying works, reinstatement.

Lin Fa Tei

- Site clearance;
- Temporary drainage diversion;
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting; and
- Sheet piling & backfilling and compaction;
- Removal of sheet piles, drain laying works, reinstatement.

Sung Shan New Village

- Site clearance;
- Temporary drainage diversion;
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting;
- Sheet piling & backfilling and compaction; and
- Removal of sheet piles, drain laying works, reinstatement.

Tai Wo

- No construction activities (from 1 April 2025 to 30 April 2025)
- Site Clearance
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

Breaches of Environmental Quality Performance Limits

Water Quality

A5. The summary of exceedance records during the reporting period is summarized in **Table A1**.

Table A1 Summary of Exceedance Records of Water Quality Monitoring

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

A6. One (1) action level exceedance for DO were recorded during the reporting period. After investigation of above the exceedances, it was considered to non-project related.

Noise

A7. No Action Level or Limit Level exceedance was recorded for construction noise monitoring during the reporting period.

Built Heritage

A8. No monitoring exceedance was recorded in the reporting period.

Complaint Log

A9. Two environmental complaints were received during the reporting period. The investigation results for the environmental complaint regarding air quality and environmental complaint regarding waste management on 19 February 2025 had been investigated during the reporting period. The summary of the investigation results was presented below:

Environmental Complaint regarding air quality on 19 February 2025

A10. It was recorded that a complaint regarding air quality was received by the EPD on 17 February 2025 and referred to DSD, ET and IEC on 19 February 2025. The complaint was related to the lack of dust suppression measures from the construction site at Tai Wo.

A11. Under the investigation, the precautionary dust suppression measures were implemented on site before and on 17 February 2025 by the contractor. The following measures included:

- Regular watering had been provided for excavated works sites and main haul road;
- Water spraying for vehicle wheeling washing and dust suppression at the exit of the construction sites;
- Paving haul road with concrete to reduce generation of fugitive dust during vehicle travelling; and
- Covering open stockpiles.

A12. To enhance the dust suppression on site, the Contractor had implemented the following measures after 17 February 2025:

- Increasing watering frequency on excavated work sites and main haul roads;
- Ensuring all excavated work sites and main haul roads had adopted proper and regular watering;

- Ensuring water spraying for vehicle wheel washing and dust suppression has been adopted at the exit of the construction sites; and
- Avoiding open stockpiles placing near air sensitive receivers and ensuring that the stockpiles are covered with tarpaulin when they are not in use.

A13. During the site investigation conducted by the ET at Tai Wo on 21 February 2025, the ET observed that:

- No muddy material on the main access road adjacent to the construction site;
- Water spraying has been adopted on main haul road and exposed area;
- Water spraying for vehicle wheel washing and dust suppression has been adopted at the exit of the construction sites. Cleaning has been deployed to prevent muddy stain left behind on public access road;
- Stockpiles are covered with tarpaulin; and
- No observation of fugitive dust.

A14. Based on the information provided by the Contractor and information collected from the site inspection, it concluded that dust suppression measures have been properly implemented on site to mitigate dust impact on the nearby residents. No deficiency observation in relation to fugitive dust impact were recorded during the site inspections on 21 February 2025. After the complaint, the Contractor has enhanced and properly implemented the precautionary and mitigation measures to suppress dust from the work area and within the site boundary. As no further complaint of lacking dust suppression measures was received, the case is considered closed.

Environmental Complaint regarding waste management on 19 February 2025

A15. It was recorded that a complaint regarding waste management was received by the EPD on 16 February 2025 and referred to the DSD, the ET and the IEC on 19 February 2025. The complaint was related to the fly-tipping of construction waste from the construction site at Tai Wo.

A16. A site investigation was conducted by the ET at Tai Wo on 21 February 2025. During the site investigation, the ET observed that:

- No construction waste was found within the work area at Tai Wo;
- Stockpile of materials within the site working area was properly covered with tarpaulin;
- A construction working area that is not related to the Project was observed near the vehicle washing facility. Construction materials that are not related to the Project were found near the vehicle washing facility but were lying outside the working area.

A17. No environmental deficiency was observed during the site investigation on 21 February 2025.

A18. Based on the information provided by the Contractor and the information collected from the site inspection, no construction waste was observed at the work area in Tai Wo. Construction materials that were considered as project non-related, was observed on the public access road at Cheung Po Tsuen. Therefore, it is concluded that the complaint is invalid.

Notification of Summons and Successful Prosecutions

A19. No notification of summons or successful prosecutions was received in the reporting period.

Reporting Changes

A20. 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. Impact noise monitoring, impact water quality monitoring and weekly site inspection at Tai Wo were resumed starting from 1 February 2025 during

the last dry season (i.e. October 2024 to March 2025). The construction work at Tai Wo was temporarily suspended since 1 April 2025 in accordance with the requirement stipulated in Condition 3.2 of EP No. EP-596/2021, thus, no impact noise monitoring, impact water quality monitoring and weekly site inspection was carried out during the above period.

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 5th Quarterly EM&A Report summarizing the key findings of the construction phase EM&A programme from 1 February 2025 to 30 April 2025 (the reporting period) and is submitted to fulfil the requirements in Section 12.3 of the approved Updated EM&A Manual of the Project.

1.2 Construction Works Programme

- 1.2.1 The construction programme and the location plan of the Project are shown in **Appendix 1.1** and **Figure 1.1** respectively. The locations of the proposed drainage improvement work 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**.

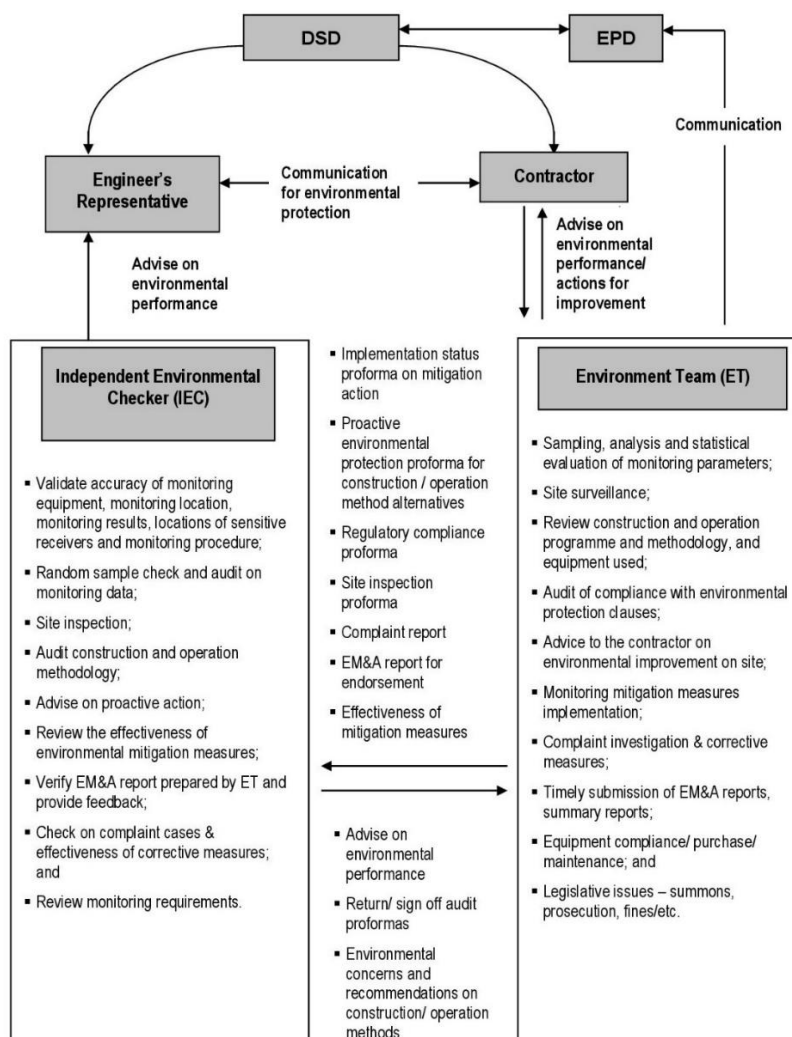


Diagram 1.1 Organisation Chart

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.

1.5 Works undertaken during the Period

1.5.1 The main construction works carried out in the reporting period were as below.

Ha Che

- Site clearance; work
- Breaking ground
- Temporary drainage diversion
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting
- Sheet piling & backfilling and compaction; and
- Removal of sheet piles, drain laying works, reinstatement.

Lin Fa Tei

- Site clearance work
- Temporary drainage diversion
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting; and
- Sheet piling & backfilling and compaction
- Removal of sheet piles, drain laying works, reinstatement.

Sung Shan New Village

- Site clearance work
- Temporary drainage diversion
- Excavation and Lateral Support, relocate/ divert utilities, rebar fixing, formwork erection and cast-in, concreting
- Sheet piling & backfilling and compaction; and
- Removal of sheet piles, drain laying works, reinstatement.

Tai Wo

- No construction activities (from 1 April 2025 to 30 April 2025)
- Site Clearance work
- Temporary Drainage Diversion
- Excavation and Lateral Support, Relocate/ Divert Utilities, Rebar Fixing, Formwork Erection and Cast-in, Concreting

1.5.2 The environmental mitigation measures corresponding to the main construction works implemented in the reporting period can be referred to **Appendix 1.3**.

2 Water Quality

2.1 Monitoring Requirement

- 2.1.1 In accordance with the approved Updated EM&A Manual, impact water quality monitoring should be carried out three days per week at all designated monitoring stations during the construction period. The interval between two sets of monitoring should not be less than 36 hours.
- 2.1.2 Replicate in-situ measurements of dissolved oxygen (DO), temperature, pH, turbidity, salinity, water depth and suspended solids (SS) for each independent sampling event shall be collected to ensure a robust statistically interpretable database.

2.2 Monitoring Location

- 2.2.1 Impact water quality monitoring was conducted at 8 monitoring stations (except Station C4 & C5) from 1 April 2025 to 30 April 2025 and conducted at 10 monitoring stations from 1 February 2025 to 31 March 2025 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 ⁽⁴⁾	825497	830664	Control Monitoring Point
	C5 ⁽⁴⁾	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.
- (4) 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. Impact water quality monitoring at Tai Wo were resumed starting from 1 February 2025 during the last dry season (i.e. October 2024 to March 2025). The construction work at Tai Wo was temporarily suspended since 1 April 2025 in accordance with the requirement stipulated in Condition 3.2 of EP No. EP-596/2021, thus, no impact noise monitoring, impact water quality monitoring and weekly site inspection was carried out during the above period.

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	Stream	Monitoring ID
Dissolved oxygen (DO), temperature, turbidity, salinity, pH, stream water depth and suspended solids (SS)	1 day in a week ⁽¹⁾	Throughout the construction phase	SSNV	C1A
				C2
				C3A
			LFT	C6
				C7A
				C8
	3 days in a week		HC	C9
				C10
			TW ⁽²⁾	C4
				C5

Notes:

- (1) Impact monitoring shall be carried out 3 days per week during the construction process. The monitoring frequency can be reduced to once per week, with sampling/ measurement at the designated monitoring locations when no exceedances were recorded during the past three-month period in accordance with Section 2.7, Appendix 4 of the Updated EM&A Manual. The change of the monitoring frequency at SSNV, LFT and HC was approved by EPD on 25 November 2024. Hence, the monitoring frequency at SSNV, LFT and HC was changed to 1 day in a week starting from 2 December 2024.
- (2) No construction work would be undertaken at Tai Wo between April and September under Condition 3.2 of EP No.: EP-596/2021. Thus, impact water quality monitoring at C4 and C5 was suspended in April 2025.

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 Action and Limit Level for Water Quality Monitoring

2.4.1 The criteria of action and limit levels for water quality monitoring are defined in **Table 2.3**.

Table 2.3 Action and Limit Levels for Water Quality

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

Note:

- (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.

2.4.2 Based on the criteria listed in **Table 2.3**, the action and limit levels for water quality are determined in **Table 2.4**.

Table 2.4 Action and Limit Levels of Water Quality

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

Notes:

- (1) The 1%-ile of baseline DO data at C1A is 6.61 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (2) The 1%-ile of baseline DO data at C5 is 8.09 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (3) The 1%-ile of baseline DO data at C8 is 5.36 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (4) The 1%-ile of baseline DO data at C10 is 2.43 mg/L, which is lower than 4 mg/L. Taking account of the baseline water quality condition and to minimise any false alarm of water quality deterioration during construction phase, DO concentration of 2.43 mg/L is adopted as the limit level.

2.5 Event and Action Plan

2.5.1 Should any non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix 2.1** 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.

2.6 Results and Observations

2.6.1 The detailed monitoring results during the reporting period are reported in the monthly EM&A Reports. The graphical presentation of water quality monitoring at the monitoring stations are shown in **Appendix 2.2**.

2.6.2 One (1) action level exceedance for DO were recorded during the reporting period. After investigation of above the exceedances, it was considered to non-project related.

2.6.3 The summary of exceedance records of water quality monitoring during the reporting period is summarized in **Table 2.5**.

Table 2.5 Summary of Exceedance Records of Water Quality Monitoring

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

Action Level Exceedance for DO on 28 March 2025

2.6.4 Action level exceedance for DO at C5 was recorded on 28 March 2025. According to the Contractor's information, pouring concrete for rectangular channel wall was carried out on site. No effluent was discharged off-site and no accidental site runoff was reported on 28 March 2025. Following the review of the monitoring results of regular water quality monitoring held on 28 March 2025 and additional monitoring held on 29 March 2025, it is noted that the DO levels at both the control station (C4) upstream of the works site and the impact station (C5) downstream of the works site are lower than the baseline levels. As no anthropogenic pollution source was identified upstream of the site during the water quality monitoring, it is considered that the non-compliance of DO action level was related to natural fluctuation of water flow. No evidence was found to indicate that the exceedance on 28 March 2025 was related to the construction works on site. No monitoring was carried out on 30 March 2025 (Sunday) when construction works were not undertaken. Regular monitoring was carried out on 31 March 2025. No further exceedances of action or limit levels were observed on the monitoring results of 31 March 2025.

2.7 Quarterly Assessment of Construction Impacts on Suspended Solids at the Project Site

2.7.1 The comparison of the difference between the quarterly mean and 1.3 times of the ambient mean is presented in **Table 2.6**.

Table 2.6 Comparison of the difference between the quarterly mean and 1.3 times of the ambient mean

Parameter	Monitoring Location	Quarterly Mean of SS (mg/L)	Baseline Level of SS (mg/L)	1.3 Times of Ambient Mean (mg/L) ⁽¹⁾	Quarterly Mean of SS > 1.3 Times of Ambient Mean (Y/N)	Request of Further Mitigation Measures (Y/N)
Suspended Solids	C1A	3.6	4.8	6.2	N	N
	C2 (Control Point)	8.5	3.2	4.2	Y	N/A
	C3A (Control Point)	4.8	2.2	2.9	Y	N/A
	C4 (Control Point)	32.1	10.7	13.9	Y	N/A
	C5	2.1	5.2	6.8	N	N
	C6 (Control Point)	17.0	3.7	4.8	Y	N/A
	C7A (Control Point)	8.0	6.7	8.7	N	N/A
	C8	2.3	4.0	5.2	N	N
	C9 (Control Point)	11.7	5.9	7.7	Y	N/A
	C10	4.6	8.5	11.1	N	N

Note:

(1) 1.3 times of the ambient mean equal to be defined as 30% increase of the baseline data.

Sung Shan New Village (Monitoring Locations C1A, C2 & C3A)

2.7.2 The quarterly mean of SS at Monitoring Location C1A (Impact Point) (3.6 mg/L) is lower than the 1.3 times of the ambient mean (6.2 mg/L). Hence, no further mitigation measures for control of water quality impact are required at Sung Shan New Village.

Tai Wo (Monitoring Locations C4 & C5)

2.7.3 The quarterly mean of SS at Monitoring Location C5 (Impact Point) (2.1 mg/L) is lower than 1.3 times of the ambient mean (6.8 mg/L). Hence, no further mitigation measures for control of water quality impact are required at Tai Wo.

Lin Fa Tei (Monitoring Locations C6, C7A & C8)

- 2.7.4 The quarterly mean of SS at Monitoring Location C8 (Impact Point) (2.3 mg/L) is lower than the 1.3 times of the ambient mean (5.2 mg/L). Hence, no further mitigation measures for control of water quality impact are required at Lin Fa Tei.

Ha Che (Monitoring Locations C9 & C10)

- 2.7.5 The quarterly mean of SS at Monitoring Location C10 (Impact Point) (4.6 mg/L) is lower than the 1.3 times of the ambient mean (11.1 mg/L). Hence, no further mitigation measures for control of water quality impact are required at Ha Che.

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 ⁽⁴⁾	#200, Cheung Po	Residential	Free-field
TW_M3 ⁽⁴⁾	Kai Yip Garden, #3H, Tai Wo	Residential	Free-field
LFT_M1	#2G, Lin Fa Tei	Residential	Façade
LFT_M3A ⁽²⁾	Near #125B, Lin Fa Tei	Residential	Free-field
LFT_M5	#156B, Lin Fa Tei	Residential	Façade
LFT_M6 ⁽³⁾	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) Due to the objection from property management office for providing access to designated monitoring location, the noise monitoring at LFT_M7 have been suspended since 27 March 2024. An alternative monitoring location LFT_M6 was proposed to replace LFT_M7 and agreed with the ER and the IEC.
- (4) 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. Impact noise monitoring at Tai Wo was resumed starting from 1 February 2025 during the last dry season (i.e. October 2024 to March 2025). The construction work at Tai Wo was temporarily suspended since 1 April 2025 in accordance with the requirement stipulated in Condition 3.2 of EP No. EP-596/2021, thus, no impact noise monitoring, impact water quality monitoring and weekly site inspection was carried out during the above period.

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. The monitoring should be conducted during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

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
SSNV_M2, SSNV_M3, SSNV_M6, HC_M3A, HC_M4, HC_M6, TW_M2, TW_M3, LFT_M1, LFT_M3A, LFT_M5, LFT_M6 and LFT_M11	Leq(30mins) (as a logarithmic average of 6 consecutive Leq(5mins))	Once every week throughout the construction phase between 0700 and 1900 on normal weekdays

3.3 Action and Limit Levels

3.3.1 The Action and Limit levels were established in accordance with the approved Updated EM&A Manual. **Table 3.3** 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 3.1** shall be carried out.

Table 3.3 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 Influencing Factors (Ifs). The limit levels are stipulated in the Technical Memorandum on Noise from Construction Work in Designated Areas.

3.4 Results and Observations

3.4.1 The detailed monitoring results during the reporting period are reported in the monthly EM&A Reports. The graphical presentation of noise monitoring at the monitoring stations are shown in **Appendix 3.2**.

3.4.2 No Action or Limit levels exceedance was recorded in the reporting period.

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.

Post-translocation Monitoring

- 4.1.2 According to Section 5.2.5 of the approved Updated EM&A Manual for the Project, monthly post-translocation monitoring shall be conducted for at least 12 months after pre-construction surveys to monitor their establishment.
- 4.1.3 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.
- 4.1.4 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.
- 4.1.5 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.
- 4.1.6 Post-translocation Monitoring was carried out in the reporting period. The monitoring results are reported in the monthly EM&A Reports prepared for this Contract.
- 4.1.7 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 during the reporting period.
- 4.1.8 However, 1 new individual of *C. anacoluthon* without markings were captured at the Ha Che Upper receptor sites in February 2025. This individual, however, was not the translocated individual as its details (i.e., carapace, sex and species) did not match with any of the translocated individuals in the record. No new individuals were captured during the survey in March and April 2025.

- 4.1.9 The inability to recapture the translocated individuals could be due to the structural complexity of the habitats of both sites. Given the presence of many rocks and riffles at the Upper Ha Che receptor site, together with large and deep pools in the Lower Ha Che receptor site, these receptor sites provide excellent refuge and protection for the crabs.

5 Waste Management

- 5.1.1 Waste generated from the Project include inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting period. The amount of waste generated by the construction works of the Project during the reporting period are shown in **Appendix 5.1**.
- 5.1.2 Sorting of construction and demolition (C&D) materials was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimize the disposal of C&D waste to public fill.
- 5.1.3 The Contractor is advised to minimize the wastes generated through recycling or reusing. All applicable mitigation measures stipulated in the approved Updated EM&A Manual and waste management plans will be fully implemented.

6 Land Contamination

- 6.1.1 With reference to results of land contamination assessment included in the approved EIA Report (Register No.: AEIAR-229/2021), all identified sites with potential contamination are located outside the work area of the Project and no potential contamination arising from the proposed drainage improvement works is anticipated. Therefore, no land contamination issue is anticipated for this Project.
- 6.1.2 Mitigation measures listed in **Appendix 1.3** should be adopted if any suspended contamination encountered during construction.
- 6.1.3 No suspected on-site contamination was observed or reported by the Contractor in the reporting period.

7 Landscape and Visual

7.1 Audit Requirements

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

7.2 Results and Observations

- 7.2.1 To monitor and audit the implementation of landscape and visual mitigation measures, 13 weekly landscape and visual site audits were carried out in the reporting period. 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.
- 8.1.4 The licence application for archaeological survey works at Lin Fa Tei, Yuen Long was approved by the AMO on 28 June 2024. The Archaeological Survey at Lin Fa Tei was carried out from 16 to 28 October 2024. During this period, the qualified Archaeologist has excavated five test trenches (5m x 1.2m each in size) coded TT1 to TT5 respectively and executed 20 auger tests coded AH1 to AH20 respectively.
- 8.1.5 Generally, the fill deposit at the top of the excavated area is modern and formed in recent years; the sludge deposits underneath contain no archaeological remains whatsoever.
- 8.1.6 Therefore, it can be concluded that there is no archaeological potential in the Licence Area, and the construction works of the Project will not cause any adverse impact to archaeological heritage in this part of the Lin Fa Tei Site of Archaeological Interest. The completion brief of archaeological survey was submitted to AMO for review on 30 October 2024. Draft Report on the Archaeological Survey at Lin Fa Tei were submitted to the AMO on 19 November 2024. Comments on the draft Report from the AMO were issued on 10 March 2025. The Report was revised and submitted to the AMO for further review on 21 March 2025. No further comment was received from the AMO up to the end of the reporting period.

8.2 Built Heritage

- 8.2.1 According to the approved Updated EM&A manual, mitigation measures that should be implemented during the construction phase for graded historic buildings are presented in **Table 8.1**.
- 8.2.2 Condition surveys were carried out by qualified structural engineer for Lee Tat Bridge, Lan Fong Study Hall and St John's Chapel prior to construction works. The Pre-construction Condition Survey Report were submitted to the EPD on 22 December 2023 under Condition 2.10 of the EP.
- 8.2.3 Due to the distance between the works area at Ha Che and the Lan Fong Study Hall exceeded 30m radial distance during the reporting period, no vibration monitoring was undertaken. Settlement and tilting monitoring at Lan Fong Study Hall at Ha Che has been carried out during the reporting period (excluded public holiday). The distance between the north works area at Ha Che and the Lan Fong Study Hall is around 395.34m. While the distance between the south works area at Ha Che and the Lan Fong Study Hall is around 63.76m. The layout plan showing distance between the works area at Ha Che and the Lan Fong Study Hall is presented in **Figure 8.2**. The monitoring locations of Lan Fong Study Hall at Ha Che is presented are **Figure 8.3**. No exceedance for relevant monitoring was recorded during the reporting period.
- 8.2.4 Settlement, tilting and vibration monitoring at St. John's Chapel near Tai Wo were carried out in February and March 2025. As no construction work was carried out at Tai Wo in April 2025, no structural monitoring was conducted at St. John's Chapel in April 2025. The monitoring locations of St. John's Chapel near Tai Wo are presented in **Figure 8.4**. No exceedance for relevant monitoring was recorded during the reporting period.
- 8.2.5 No monitoring has been carried out at Lee Tat Bridge at Lin Fa Tei as the works areas are more than 500 m away.
- 8.2.6 Monitoring data are submitted to the AMO on quarterly basis.
- 8.2.7 No monitoring exceedance was recorded in the reporting period.

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.
Lan Fong Study Hall, Chuk Hang (Grade 3)	▪ 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.
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 audits were carried out by ET on weekly basis at least once per week to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 9.1.2 Total 13 site inspections were carried out during the reporting period. No outstanding issues were reported during the reporting period. Details of observations recorded during the site inspections are presented in **Table 9.1**.

Table 9.1 Site Observations

Date	Environmental Observations	Follow-up Status
	<u>Observation(s) and Recommendation(s)</u>	
5 Feb 2025	Ha Che: 1. The Contractor was reminded to place the updated CNP on site.	Ha Che: 1. The updated CNP has been displayed on site by the contractor.
	<u>Observation(s) and Recommendation(s)</u>	
12 Feb 2025	Lin Fa Tei: 1. The Contractor was reminded to direct waterflow to the wastewater treatment system before discharge especially during rainy day.	Lin Fa Tei: 1. The water flow was redirected to the wastewater treatment system before discharge by the contractor.
	<u>Observation(s) and Recommendation(s)</u>	
19 Feb 2025	Nil	Nil
	<u>Observation(s) and Recommendation(s)</u>	
26 Feb 2025	Nil	Nil
	<u>Observation(s) and Recommendation(s)</u>	
5 Mar 2025	Sung Shan New Village: 1. Waste near the geotextile should be removed regularly.	Sung Shan New Village: 1. Waste near the geotextile have been removed by the contractor.
	<u>Observation(s) and Recommendation(s)</u>	
12 Mar 2025	Nil	Nil
	<u>Observation(s) and Recommendation(s)</u>	
19 Mar 2025	Nil	Nil
	<u>Observation(s) and Recommendation(s)</u>	
26 Mar 2025	Ha Che: 1. Chemical should probably store.	Ha Che: 1. Chemical has been properly stored by the contractor.
	<u>Observation(s) and Recommendation(s)</u>	
2 April 2025	Nil	Nil

Date	Environmental Observations	Follow-up Status
	<u>Observation(s) and Recommendation(s)</u>	
9 April 2025	Ha Che: 1. Environmental permit should be displayed on site.	Ha Che: 1. Environmental Permit has been displayed properly on site.
16 April 2025	<u>Observation(s) and Recommendation(s)</u>	
	Nil	Nil
	<u>Observation(s) and Recommendation(s)</u>	
23 April 2025	Sung Shan New Village: 1. Impervious sheeting should be provided for placing the breaker to prevent land contamination on site.	Sung Shan New Village: 1. The breaker has been covered by impervious sheeting to prevent land contamination on site.
	<u>Observation(s) and Recommendation(s)</u>	
30 April 2025	Sung Shan New Village: 1. The Contractor should regularly maintain the condition of geotextile and remove waste nearby.	Sung Shan New Village: 1. The Contractor has properly maintained the condition of geotextile and remove waste nearby.

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

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

10.1 Summary of Exceedance

Water Quality Monitoring

10.1.1 The summary of exceedance records of water quality monitoring during the reporting period is summarized in **Table 10.1**.

Table 10.1 Summary of Exceedance Records of Water Quality Monitoring

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

10.1.2 One (1) action level exceedance for DO were recorded during the reporting period. After investigation of above the exceedances, it was considered to non-project related.

28 March 2025

10.1.3 Action level exceedance for DO at C5 was recorded on 28 March 2025. According to the Contractor's information, pouring concrete for rectangular channel wall was carried out on site. No effluent was discharged off-site and no accidental site runoff was reported on 28 March 2025. Following the review of the monitoring results of regular water quality monitoring held on 28 March 2025 and additional monitoring held on 29 March 2025, it is noted that the DO levels at both the control station (C4) upstream of the works site and the impact station (C5) downstream of the works site are lower than the baseline levels. As no anthropogenic pollution source was identified upstream of the site during the water quality monitoring, it is considered that the non-compliance of DO action level was related to natural fluctuation of water flow. No evidence was found to indicate that the exceedance on 28 March 2025 was related to the construction works on site. No monitoring was carried out on 30 March 2025 (Sunday) when construction works were not undertaken. Regular monitoring was carried out on 31 March 2025. No further exceedances of action or limit levels were observed on the monitoring results of 31 March 2025.

Noise Monitoring

10.1.4 No Action Level or Limit Level exceedance was recorded during the reporting period.

Built Heritage

10.1.5 No monitoring exceedance was recorded 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 Two environmental complaints were received during the reporting period. The investigation results for the environmental complaint regarding air quality and environmental complaint regarding waste management on 19 February 2025 had been investigated during the reporting period. The summary of the investigation results was presented below:

Environmental Complaint regarding air quality on 19 February 2025

10.3.2 It was recorded that a complaint regarding air quality was received by the EPD on 17 February 2025 and referred to DSD, ET and IEC on 19 February 2025. The complaint was related to the lack of dust suppression measures from the construction site at Tai Wo.

10.3.3 Under the investigation, the precautionary dust suppression measures were implemented on site before and on 17 February 2025 by the contractor. The following measures included:

- Regular watering had been provided for excavated works sites and main haul road;
- Water spraying for vehicle wheeling washing and dust suppression at the exit of the construction sites;
- Paving haul road with concrete to reduce generation of fugitive dust during vehicle travelling; and
- Covering open stockpiles.

10.3.4 To enhance the dust suppression on site, the Contractor had implemented the following measures after 17 February 2025:

- Increasing watering frequency on excavated work sites and main haul roads;
- Ensuring all excavated work sites and main haul roads had adopted proper and regular watering;
- Ensuring water spraying for vehicle wheel washing and dust suppression has been adopted at the exit of the construction sites; and
- Avoiding open stockpiles placing near air sensitive receivers and ensuring that the stockpiles are covered with tarpaulin when they are not in use.

10.3.5 During the site investigation conducted by the ET at Tai Wo on 21 February 2025, the ET observed that:

- No muddy material on the main access road adjacent to the construction site;
- Water spraying has been adopted on main haul road and exposed area;
- Water spraying for vehicle wheel washing and dust suppression has been adopted at the exit of the construction sites. Cleaning has been deployed to prevent muddy stain left behind on public access road;
- Stockpiles are covered with tarpaulin; and
- No observation of fugitive dust.

10.3.6 Based on the information provided by the Contractor and information collected from the site inspection, it concluded that dust suppression measures have been properly implemented on site to mitigate dust impact on the nearby residents. No deficiency observation in relation to fugitive dust impact were recorded during the site inspections on 21 February 2025. After the complaint, the Contractor has enhanced and properly implemented the precautionary and mitigation measures to suppress dust from the work area and within the site boundary. As no further complaint of lacking dust suppression measures was received, the case is considered closed.

Environmental Complaint regarding waste management on 19 February 2025

10.3.7 It was recorded that a complaint regarding waste management was received by the EPD on 16 February 2025 and referred to the DSD, the ET and the IEC on 19 February 2025. The complaint was related to the fly-tipping of construction waste from the construction site at Tai Wo.

10.3.8 A site investigation was conducted by the ET at Tai Wo on 21 February 2025. During the site investigation, the ET observed that:

- No construction waste was found within the work area at Tai Wo;
- Stockpile of materials within the site working area was properly covered with tarpaulin;
- A construction working area that is not related to the Project was observed near the vehicle washing facility. Construction materials that are not related to the Project were found near the vehicle washing facility but were lying outside the working area.

10.3.9 No environmental deficiency was observed during the site investigation on 21 February 2025.

10.3.10 Based on the information provided by the Contractor and the information collected from the site inspection, no construction waste was observed at the work area in Tai Wo. Construction materials that were considered as project non-related, was observed on the public access road at Cheung Po Tsuen. Therefore, it is concluded that the complaint is invalid.

10.3.11 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 Conclusions and Recommendations

11.1 Conclusion

- 11.1.1 This 5th Quarterly EM&A Report presents the EM&A works during the reporting period from 1 February 2025 to 30 April 2025 in accordance with the approved Updated EM&A Manual.
- 11.1.2 Water Quality Monitoring was conducted during the reporting period. One (1) action level exceedance for DO were recorded during the reporting period. After investigation of above the exceedances, it was considered to non-project related.
- 11.1.3 Construction noise monitoring was carried out during the reporting period. No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 11.1.4 Post-translocation monitoring was conducted during the reporting period. None of the translocated freshwater crabs 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 during the reporting period. However, 1 new individual of *C. anacoluthon* without markings was captured at the Ha Che upper receptor sites in February 2025. This individual, however, was not the translocated individual as its details (i.e., carapace, sex and species) did not match with any of the translocated individuals in the record.
- 11.1.5 Total 13 environmental site inspections and 13 landscape and visual site audits were carried out in the reporting period. Recommendations on mitigation measures were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 11.1.6 Two environmental complaints were received during the reporting period. The environmental complaint regarding air quality and environmental complaint regarding waste management on 19 February 2025 had been investigated during the reporting period. The case of complaint regarding air quality had been considered closed as no further complaint of lacking dust suppression measures was received while the case of complaint regarding waste management had been concluded as invalid since no construction waste was found within the works area at Tai Wo.
- 11.1.7 No further complaints were received in March to April 2025.
- 11.1.8 No notification of summons and successful prosecutions were recorded in the reporting period.
- 11.1.9 The EM&A methodology has been effective in monitoring the environmental impacts of the Project and the effectiveness of the mitigation measures. The data collected were useful in determining whether the Project had caused unacceptable impacts on the sensitive receivers. Analysis of all EM&A data collected throughout the baseline and the impact monitoring periods demonstrated the environmental acceptability of the Project.

11.2 Comments/ Recommendations

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

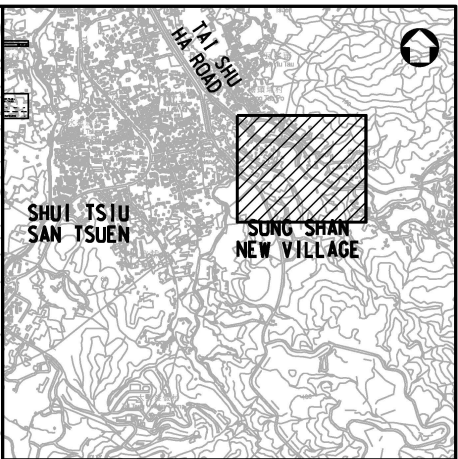
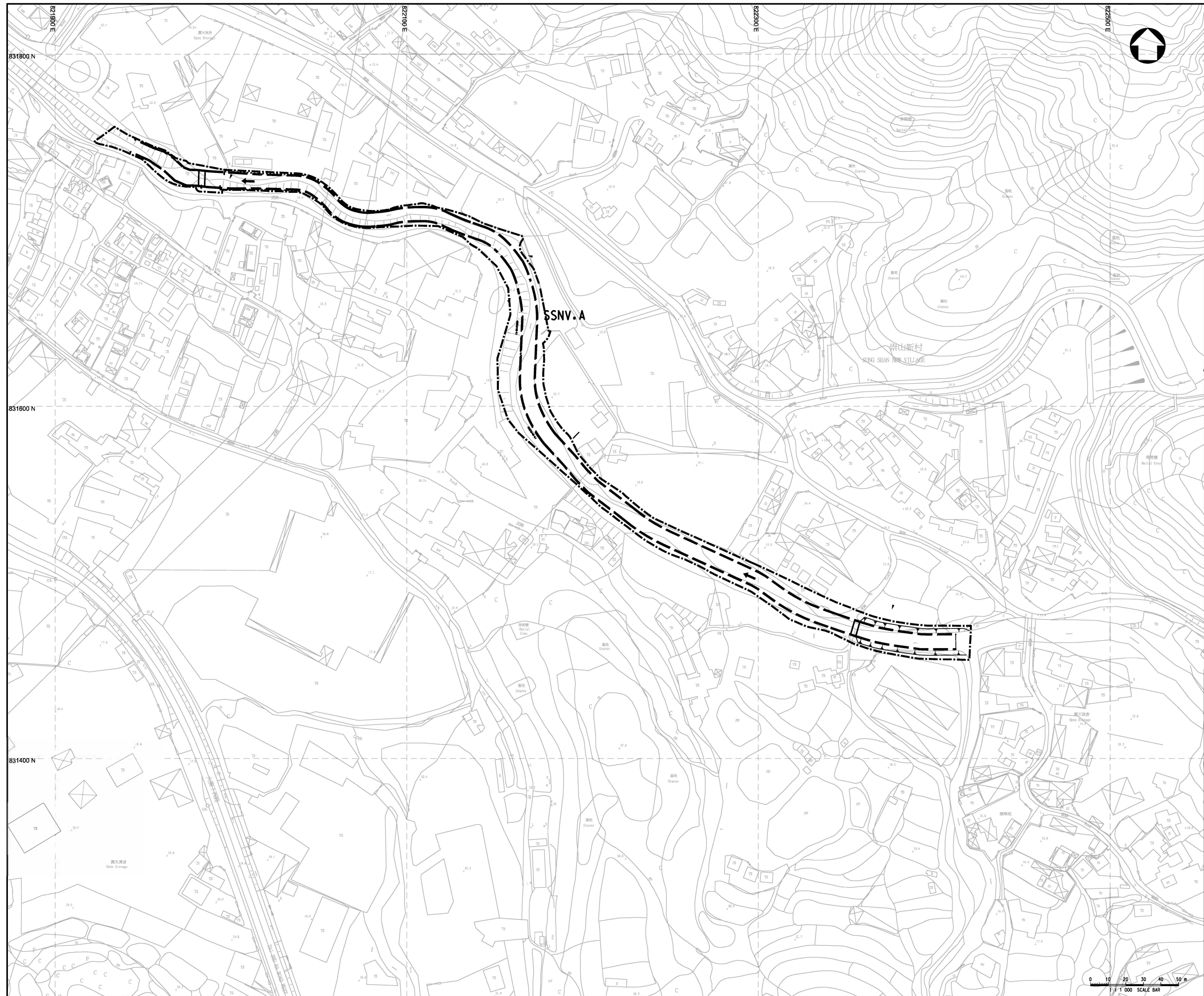
- Construction activities shall be carefully designed to minimize impact on existing retained trees; and
- Adequate tree protection measures shall be provided for the trees to be retained on site.

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

Figures

Figure 1.1 General Site Location Plan

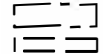
Figure 1.2 Location of Work Areas for the Project



KEY PLAN

N.T.S.

LEGEND:



WORKS BOUNDARY

RECTANGULAR CHANNEL

[illegible]

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工程管理部
Project Management Division

Contract Title

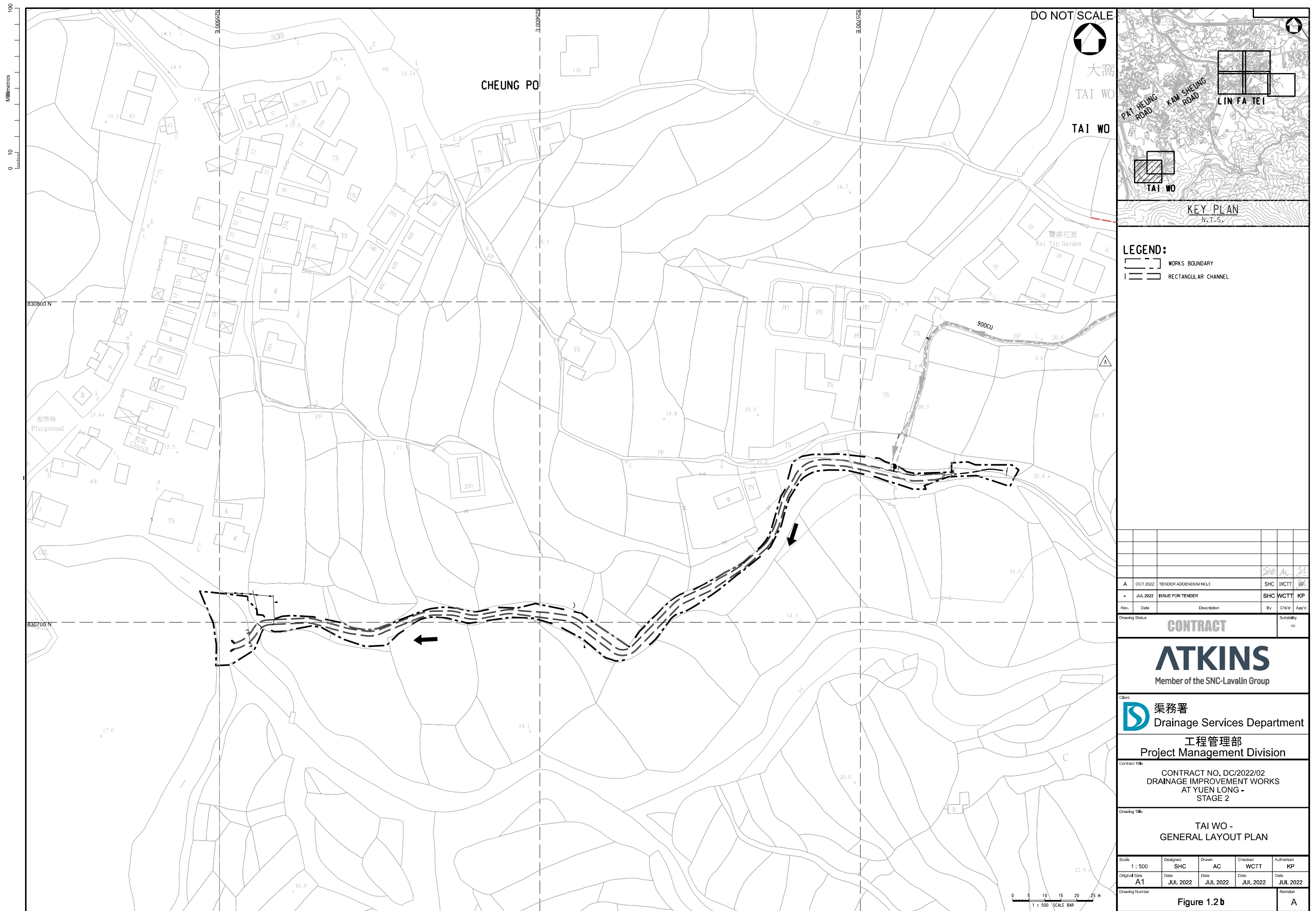
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

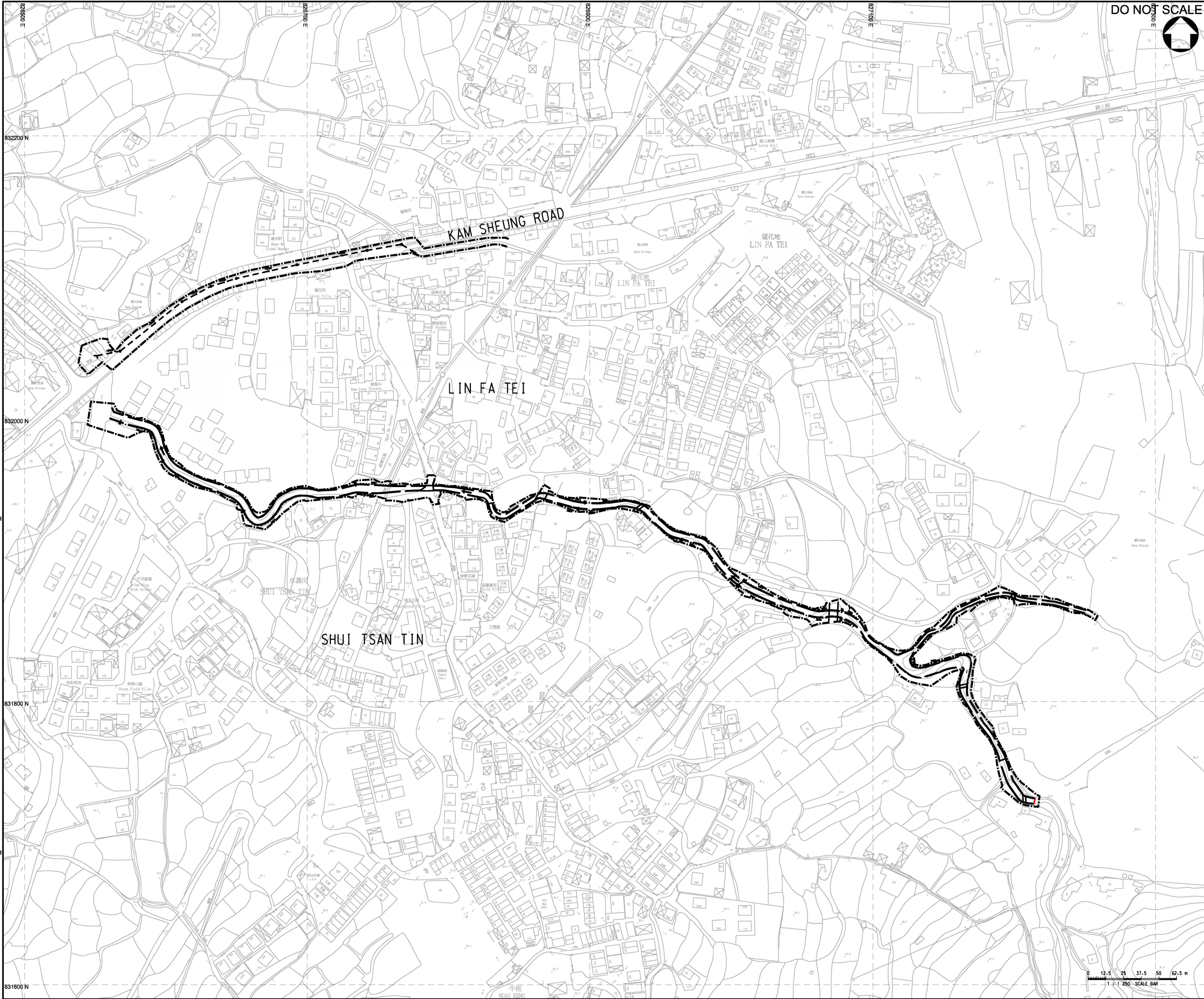
Drawing Title

SUNG SHAN NEW VILLAGE - GENERAL LAYOUT PLAN

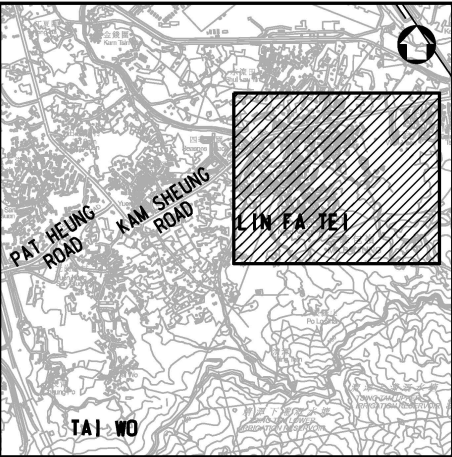
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Original Size A1	Date JUL 2022	Date JUL 2022	Date JUL 2022	Date JUL 2022
Drawing Number				Revision

Figure 1.2 a





DO NOT SCALE



KEY PLAN
N.T.S.

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

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

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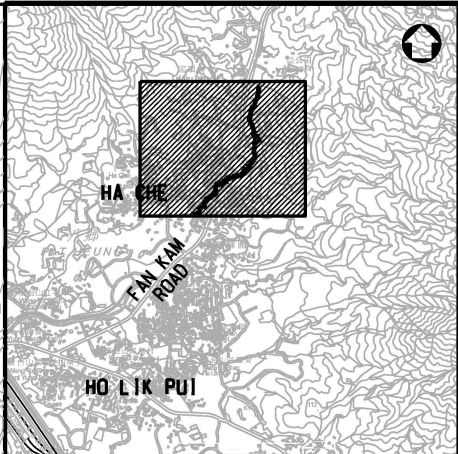
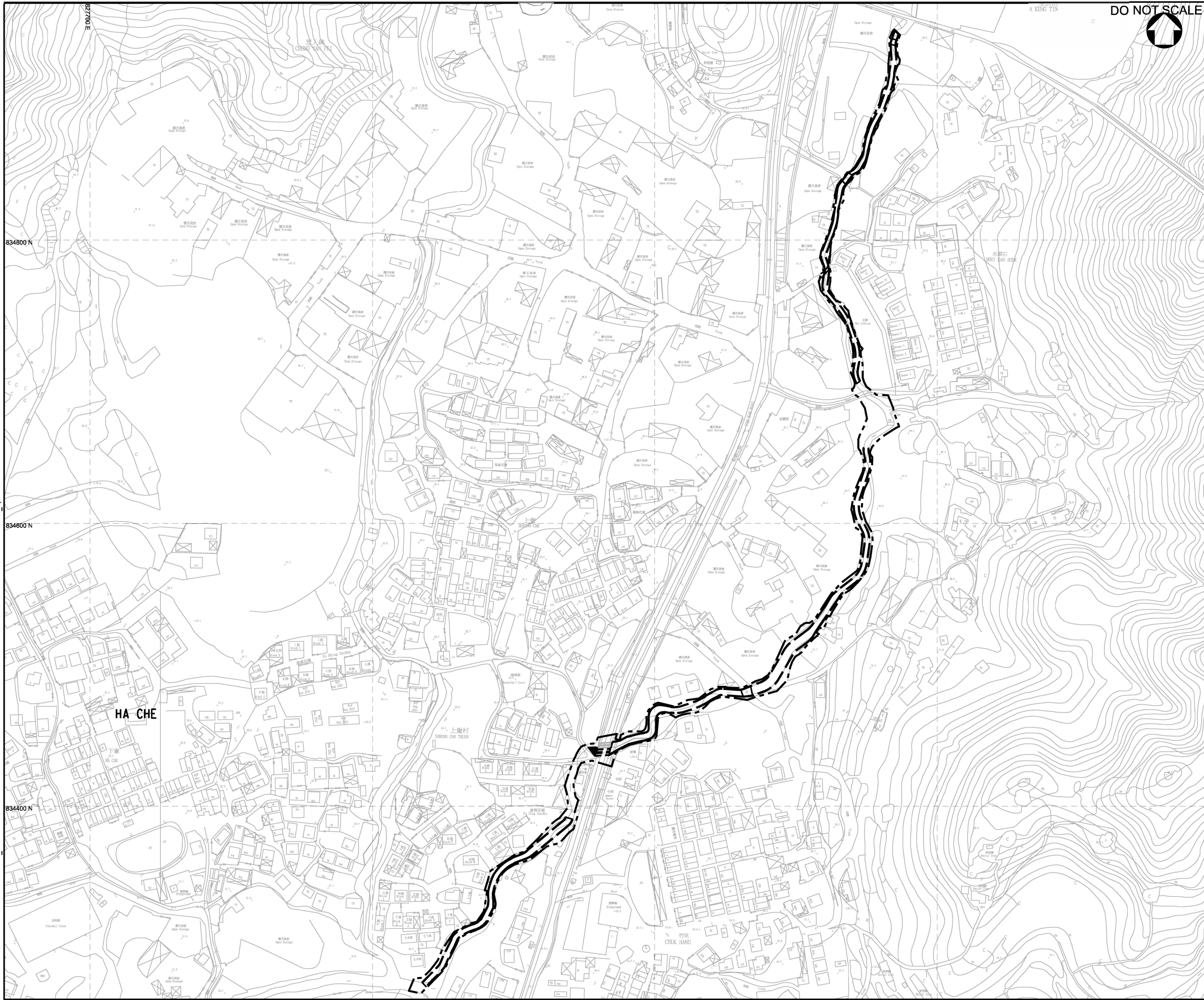
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Project Management Division

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
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Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022
Drawing Number	Figure 1.2 c			Revision

100
0 10
Millimetres



KEY PLAN
N.T.S.

- LEGEND:
- WORKS BOUNDARY
 - RECTANGULAR CHANNEL

A	NOV 2022	TENDER ADDENDUM NO. 4	SHC	WCTT	KP
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP
Rev.	Date	Description	By	Chkd	App'd
Drawing Status			Sustainability		
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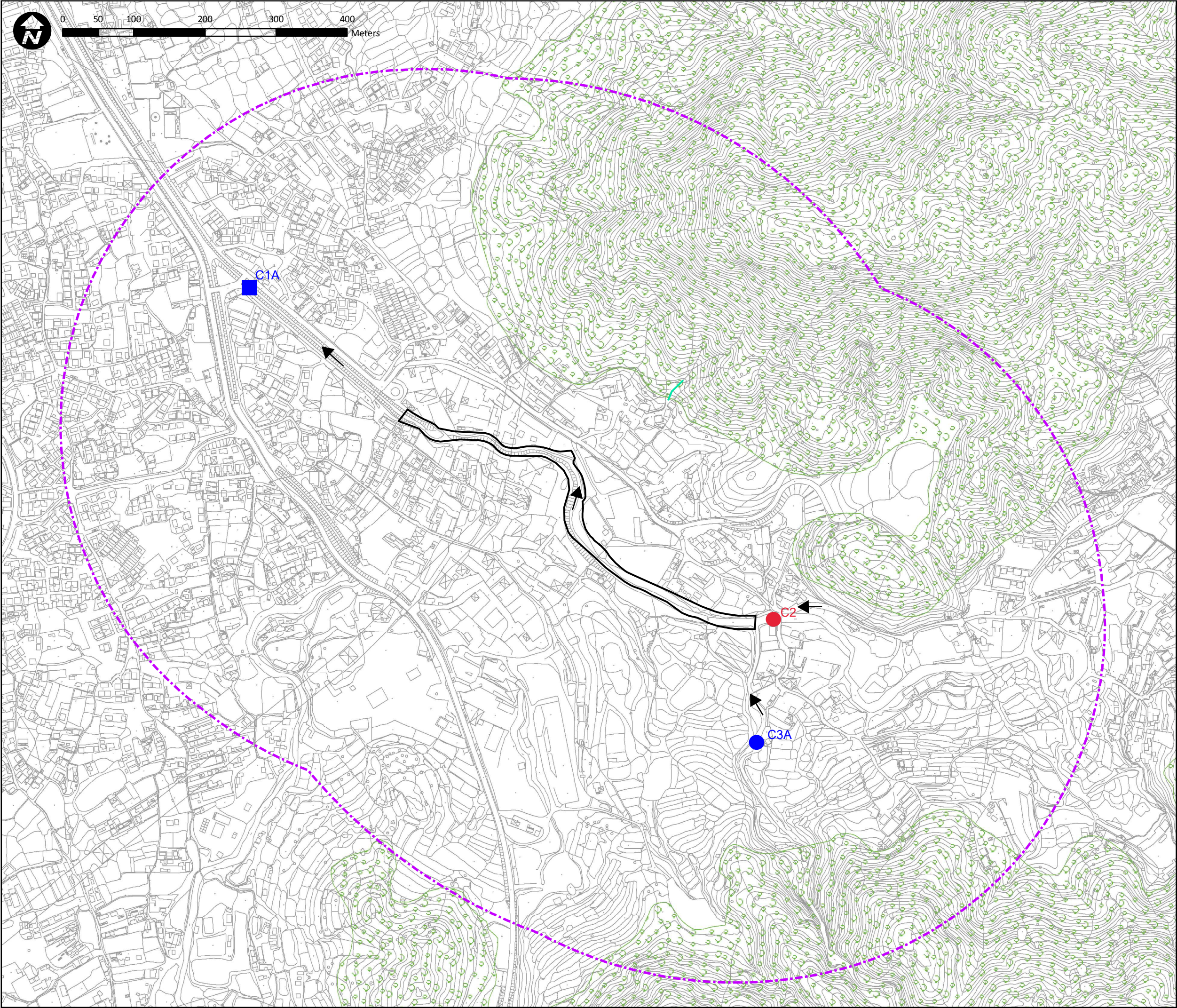
Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
HA CHE -
GENERAL LAYOUT PLAN

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

Drawing Number Figure 1.2 d	Revision
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Figure 2.1 Impact Water Quality Monitoring Locations

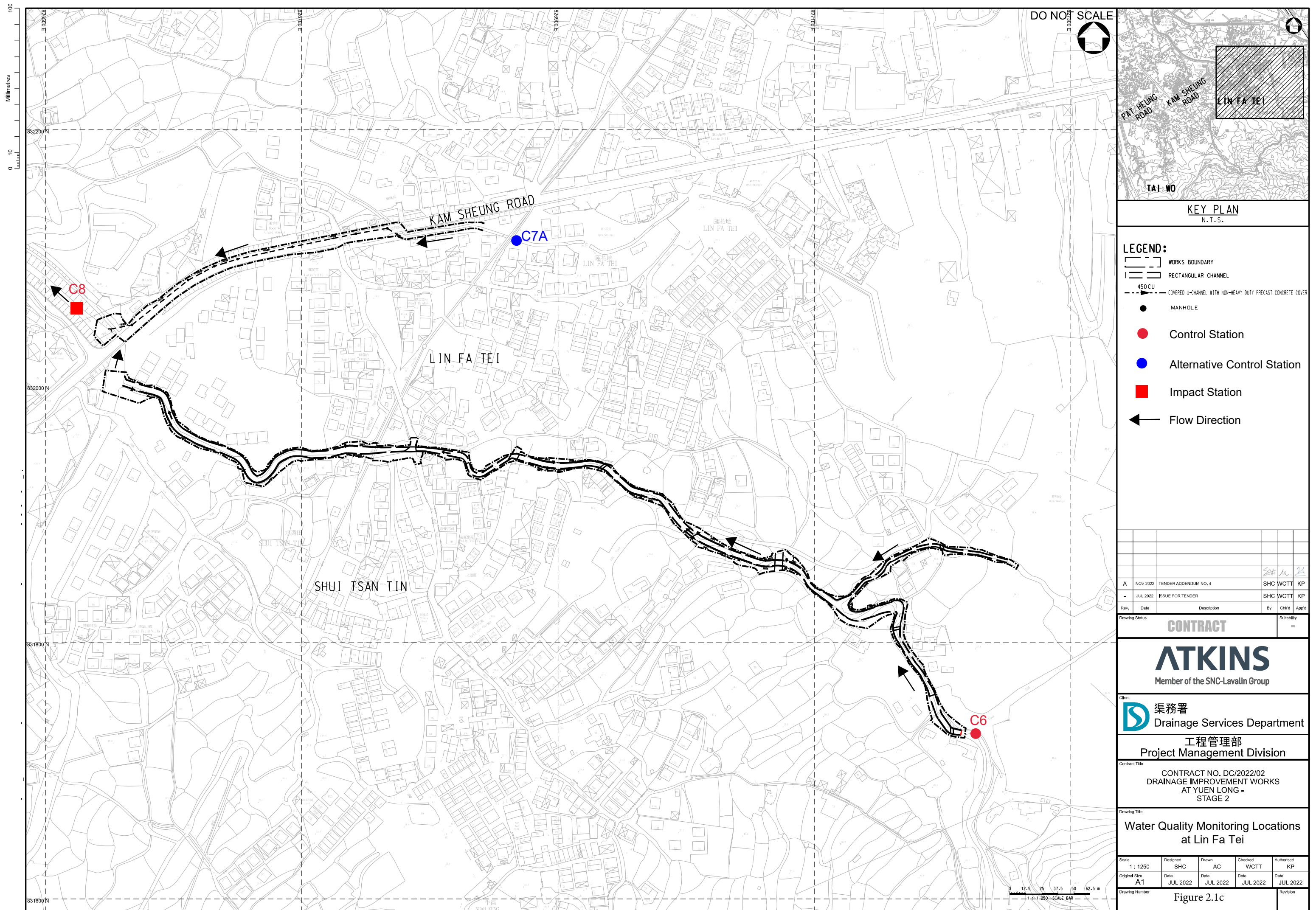


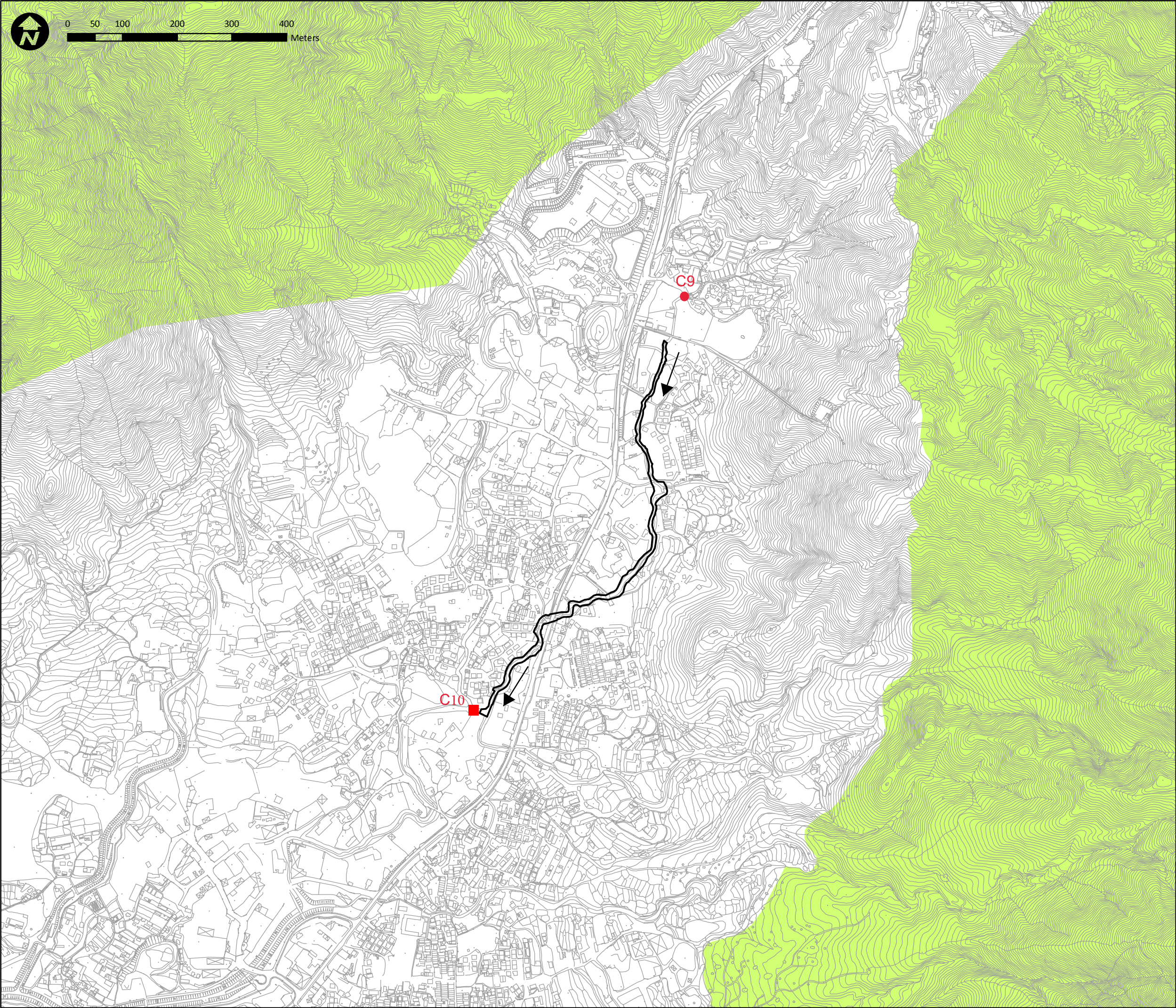
- Legend:
- Work Limit Boundary
 - 500 m study area
 - Control Station
 - Alternative Control Station
 - Alternative Impact Station
 - Flow direction

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

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

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





LEGEND:

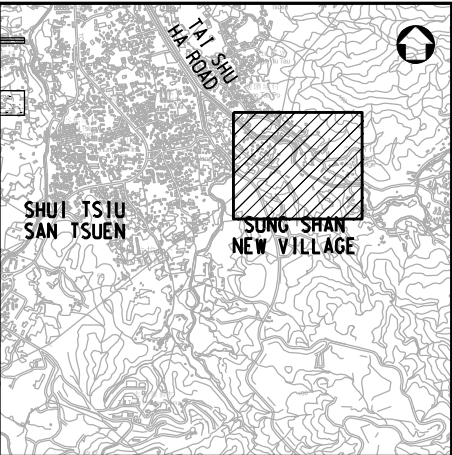
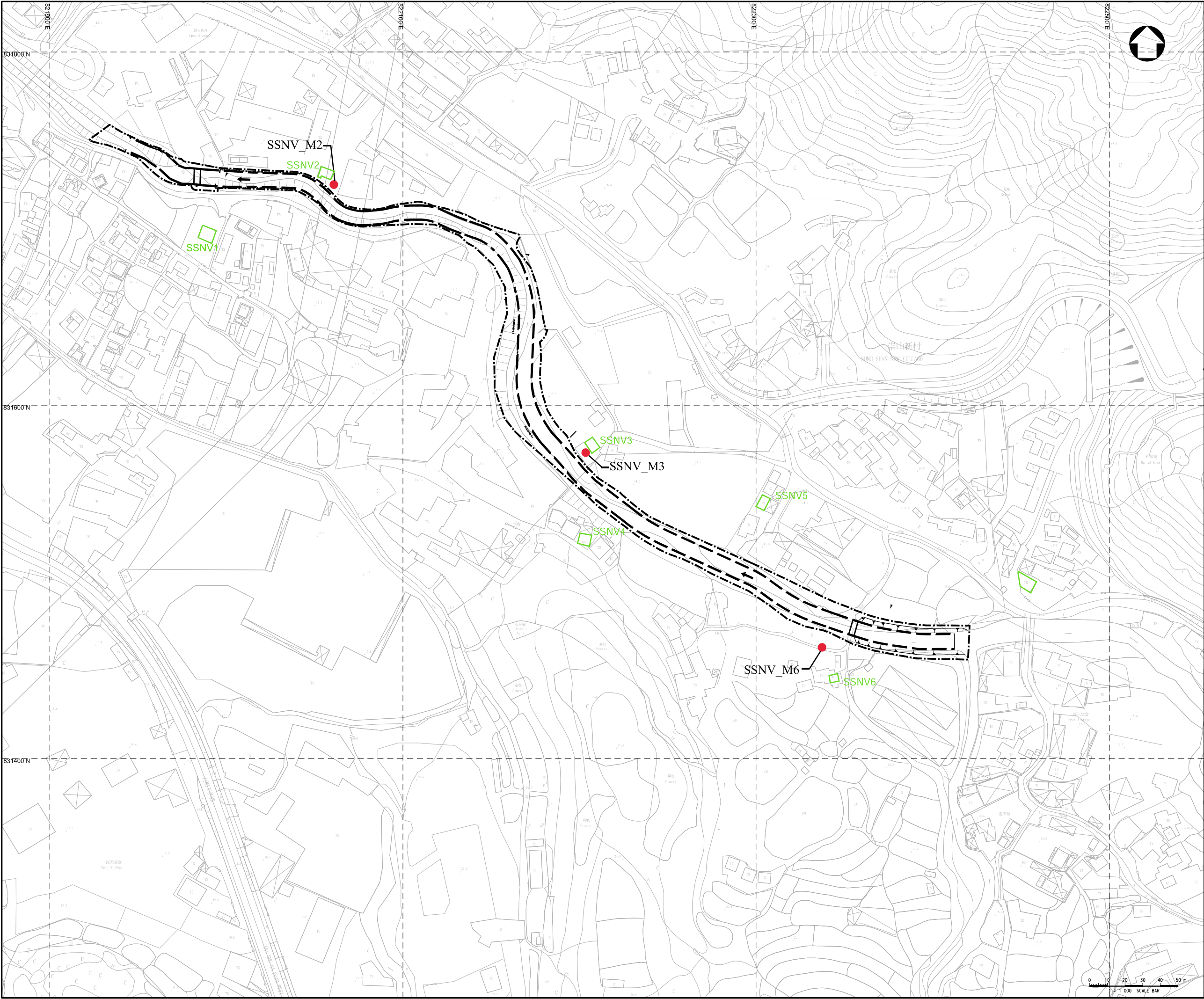
- WORKS BOUNDARY
- RECTANGULAR CHANNEL
- Control Station
- Impact Station
- Flow Direction

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:	Revision:

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	Suitability
A	OCT 2022	TENDER ADDENDUM NO.3	SHC	WCTT	KP	
-	JUL 2022	ISSUE FOR TENDER	SHC	WCTT	KP	
Drawing Status						CONTRACT

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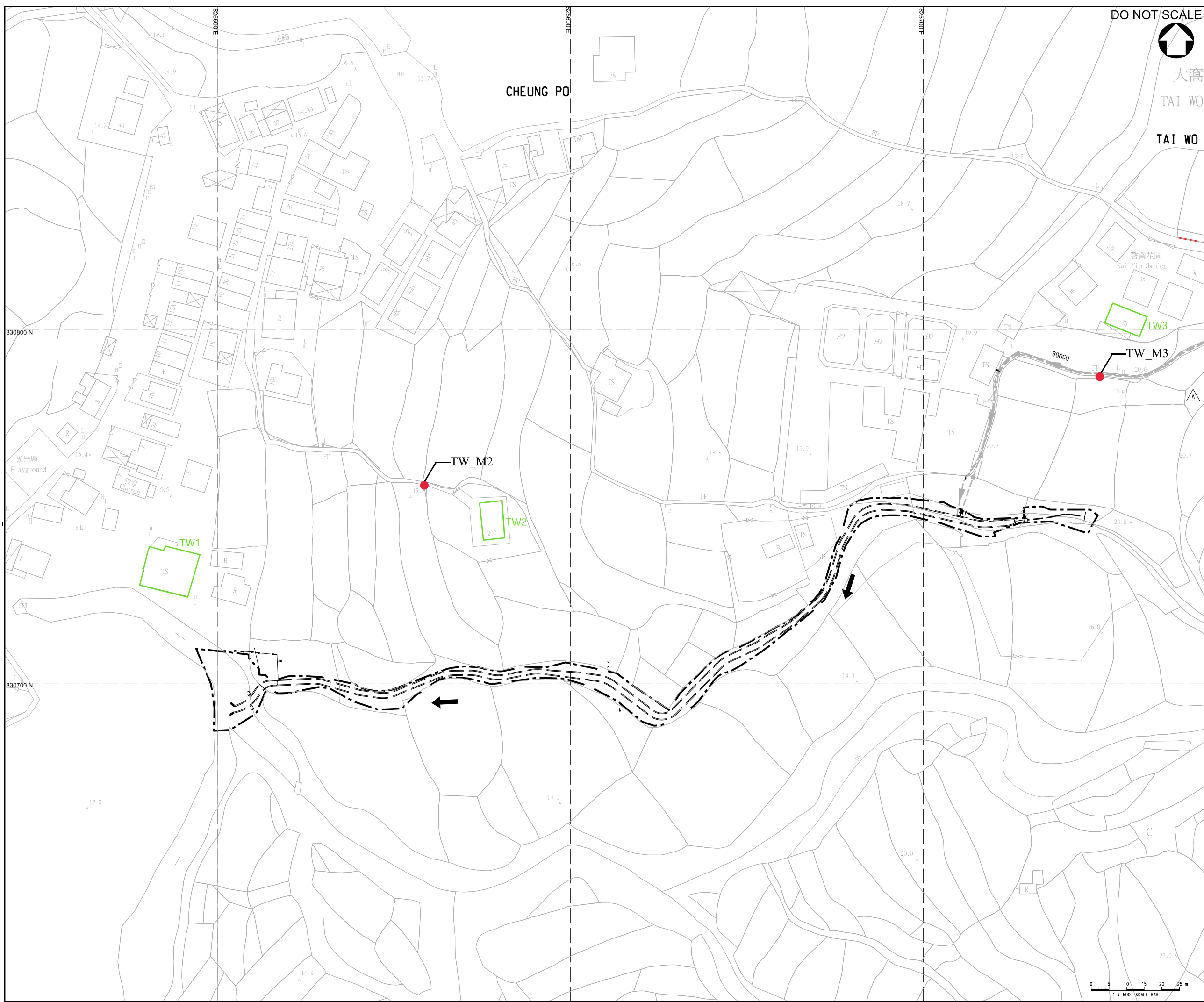
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Project Management Division

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

Drawing Title
Noise Monitoring Locations at
Sung Shan New Village

Scale	Designed	Drawn	Checked	Authorised
1 : 1000	SHC	AC	WCTT	KP
Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022
Drawing Number	Revision			
Figure 3.1a				

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Millimetres
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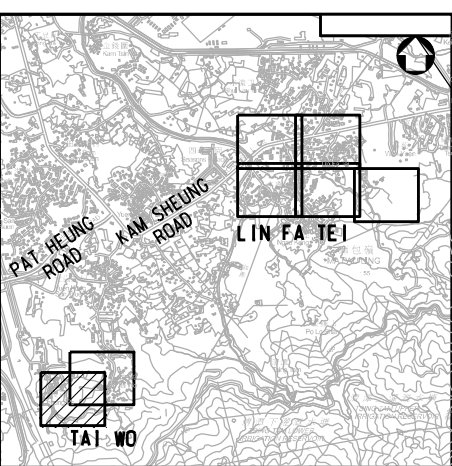
DO NOT SCALE



大窩

TAI WO

TAI WO



KEY PLAN

N.T.S.

LEGEND:

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

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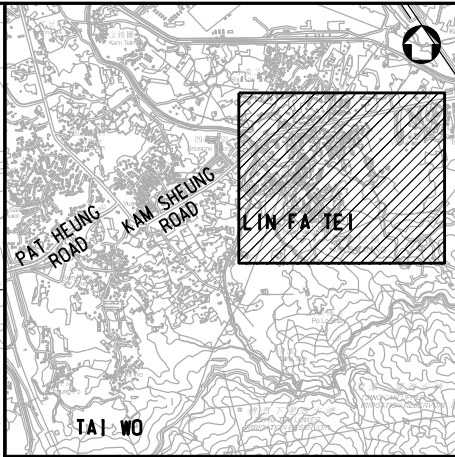
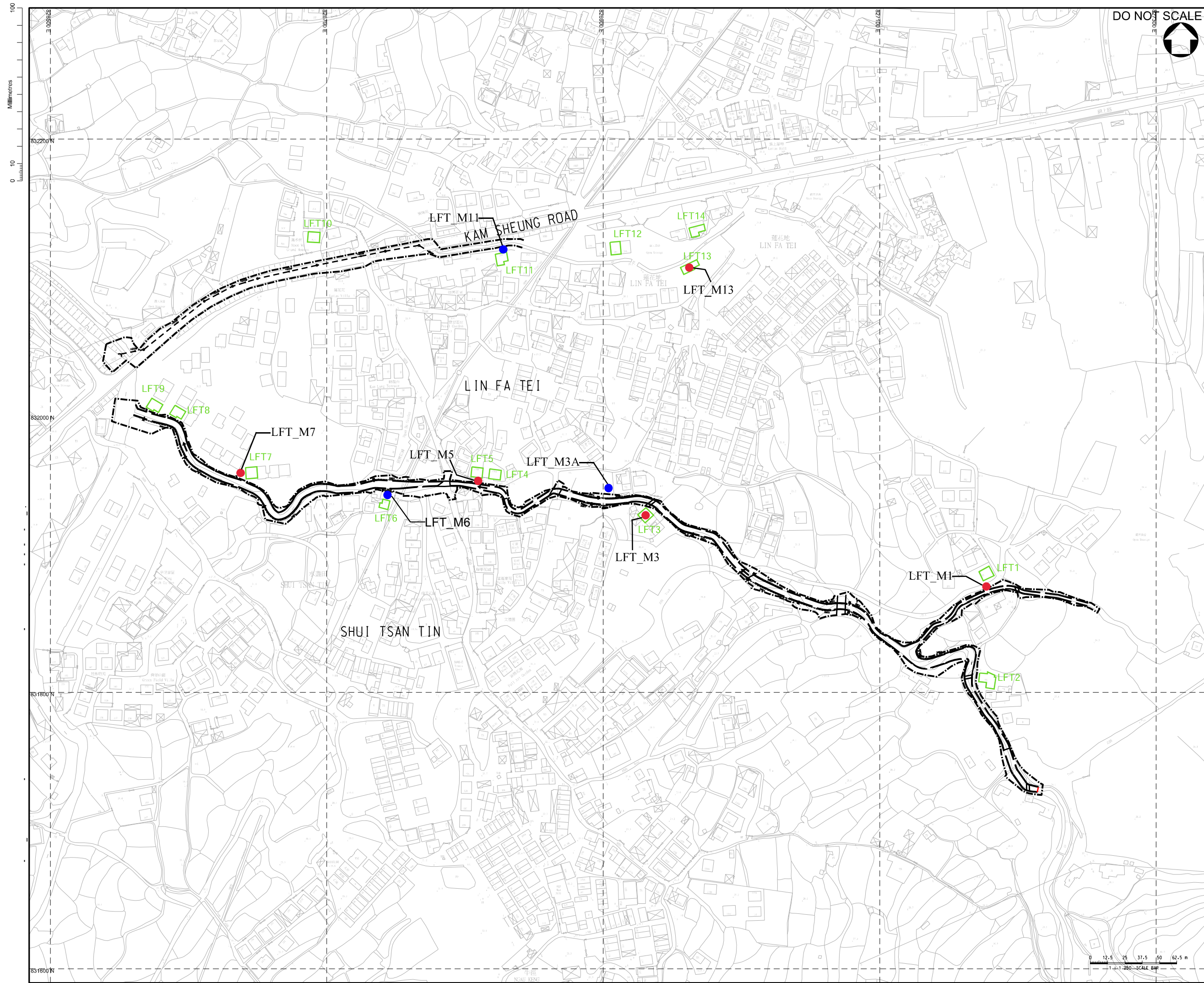
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Project Management Division

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

Drawing Title
Noise Monitoring Locations at
Tai Wo

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 3.1b
Revision
A



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	Suitability
A	NOV 2022	TENDER ADDENDUM NO. 4				
-	JUL 2022	ISSUE FOR TENDER				
Drawing Status						
CONTRACT						

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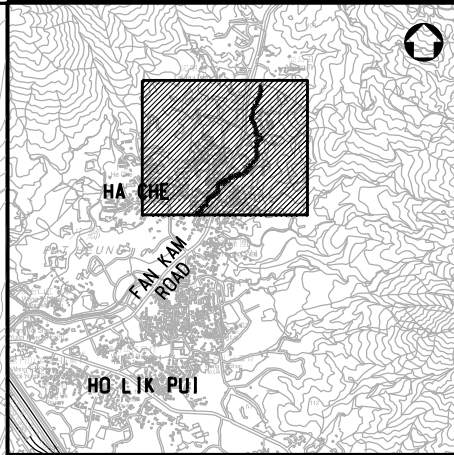
Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
Noise Monitoring Locations at
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 3.1c			Revision

0 10 100
Millimetres

DO NOT SCALE



KEY PLAN
N.T.S.

LEGEND:

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

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



Client
 渠務署
Drainage Services Department

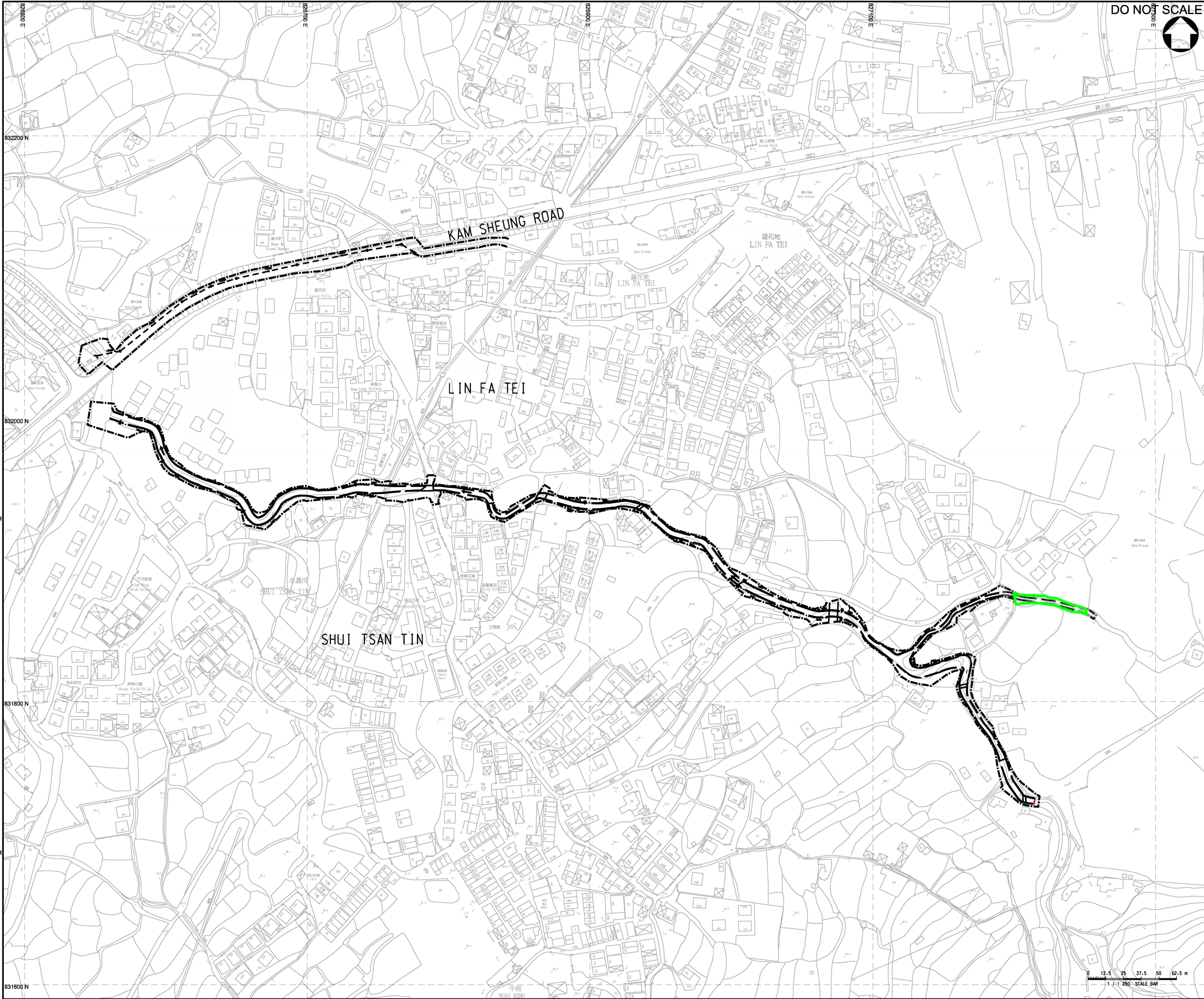
工程管理部
Project Management Division

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

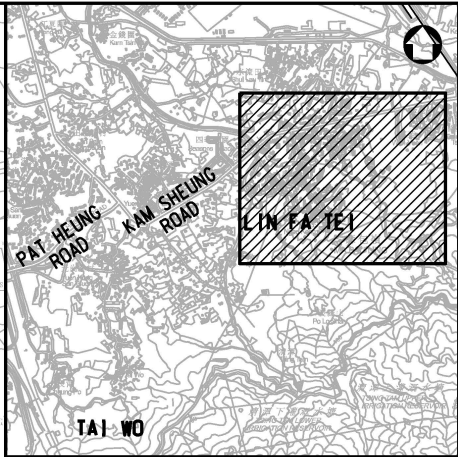
Drawing Title
Noise Monitoring Locations at
Ha Che

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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



KEY PLAN
N.T.S.

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

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

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工程管理部
Project Management Division

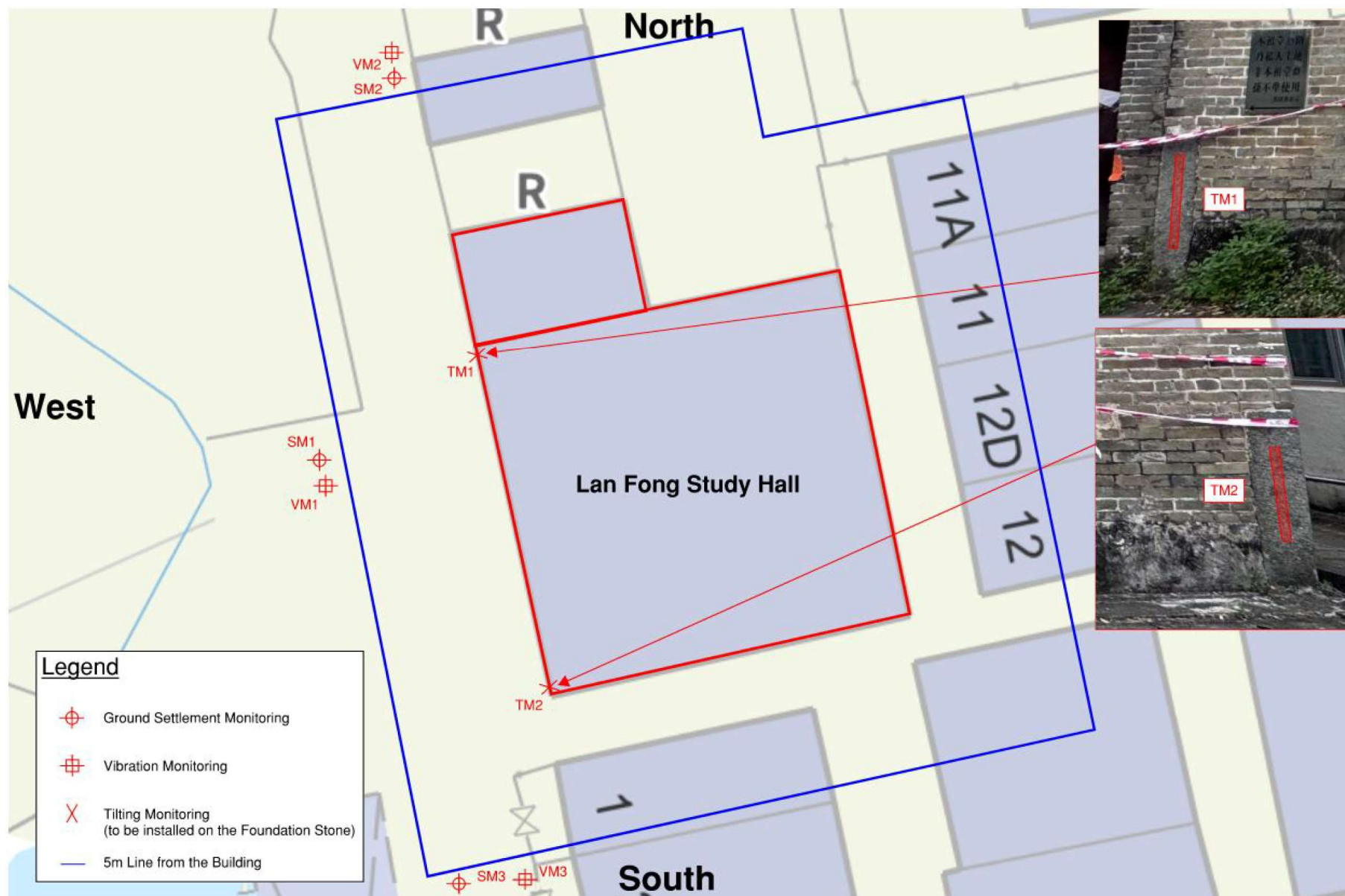
Contract Title
CONTRACT NO. DC/2022/02
DRAINAGE IMPROVEMENT WORKS
AT YUEN LONG -
STAGE 2

Drawing Title
AREA IDENTIFIED FOR ARCHAEOLOGICAL
SURVEY

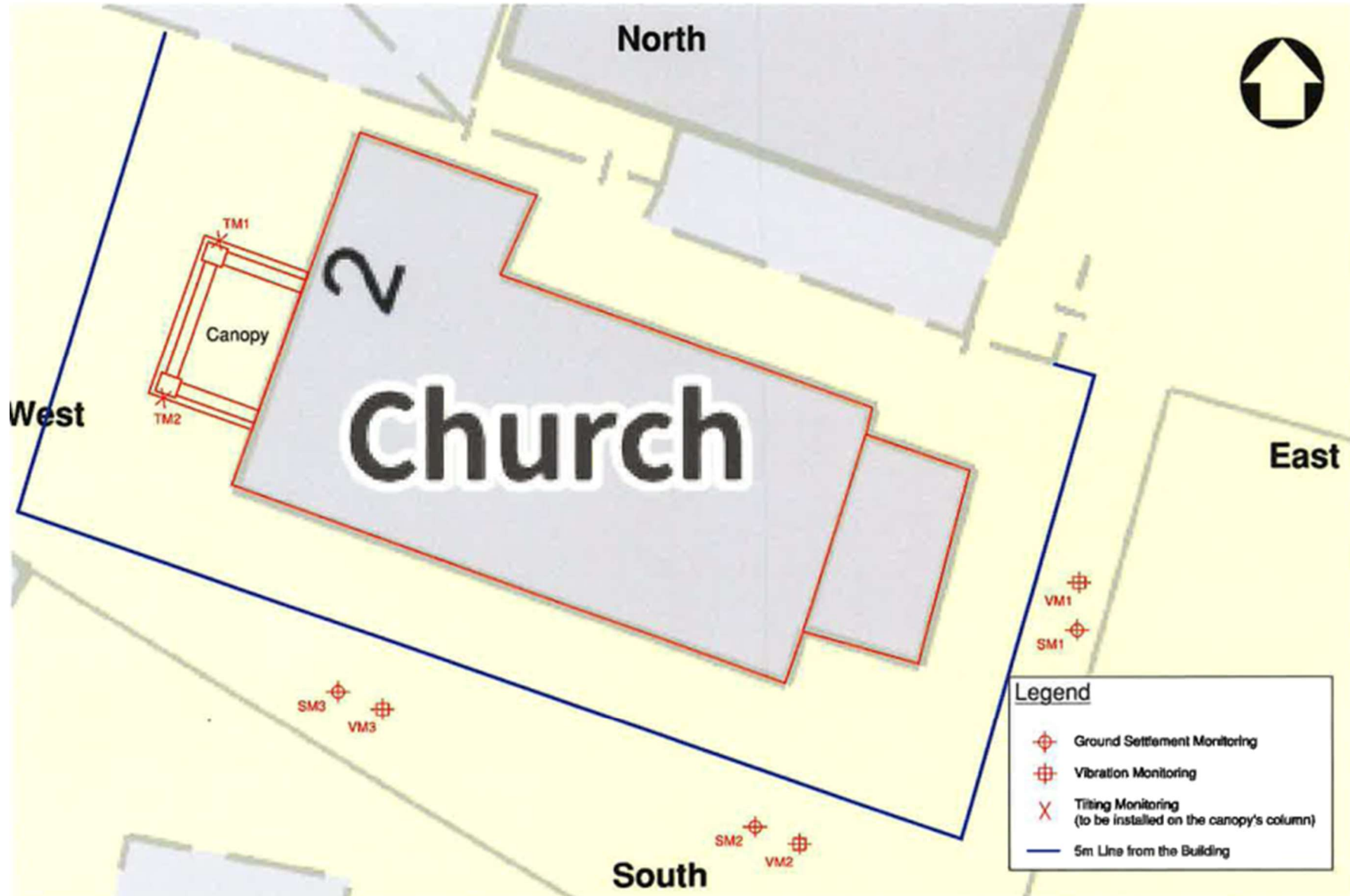
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Original Size	Date	Date	Date	Date
A1	JUL 2022	JUL 2022	JUL 2022	JUL 2022
Drawing Number	Figure 8.1			Revision

Figure 8.2 Layout plan showing distance between the works area at Ha Che and the Lan Fong Study Hall

**Figure 8.3 Monitoring Locations of Lan Fong Study Hall
at Ha Che**



**Figure 8.4 Monitoring Locations of St. John's Chapel
near Tai Wo**



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	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors	Half 1	2023 Half 2	2024 Half 1	2024 Half 2	2025 Half 1	2025 Half 2	2026 Half 1	2026 Half 2	2027 Half 1	2027 Half 2
									A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N D
1	Starting date	Mon 23/5/29	Earlier Than	1 day	Mon 23/5/29	Mon 23/5/29	-5 days											
2	Access date	NA	As Possible	270 days	Mon 23/5/29	Fri 24/2/23	1132 days											
3	Portion A	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	1132 days	1										
4	Portion B	NA	As Possible	210 days	Tue 23/5/30	Mon 23/12/25	1192 days	1										
5	Portion C1 & C2	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	1132 days	1										
6	Portion C3	NA	As Possible	0 days	Mon 23/5/29	Mon 23/5/29	1402 days	1										
7	Portion D	NA	As Possible	210 days	Tue 23/5/30	Mon 23/12/25	1192 days	1										
8	Portion E1	NA	As Possible	0 days	Mon 23/5/29	Mon 23/5/29	1402 days	1										
9	Portion E2	NA	As Possible	270 days	Tue 23/5/30	Fri 24/2/23	1132 days	1										
10	Completion Date (Extended as accepted)	NA	As Possible	1166.5 days	Tue 23/5/30	Sat 26/8/8	-5 days											
11	Section I - Drainage Improvement Works at Sung Shan New Village	Thu 26/5/28	Later Than	1095 days	Tue 23/5/30	Thu 26/5/28	0 days	1										
12	Section II - Drainage Improvement Works at Tai Wo	Tue 25/8/26	Later Than	820 days	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)	NA	As Soon As Possible	1166.5 days	Tue 23/5/30	Sat 26/8/8	-3 days											
14	Original	NA	As Possible	1155 days	Tue 23/5/30	Mon 26/7/27	-3 days	1										
15	EOT - Indement weather Cl. 60.1(13)(v)(v)	Sat 26/8/8	Later Than	11.5 days	Tue 26/7/28	Sat 26/8/8	-3 days	14										
16	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)	NA	As Soon As Possible	1108.5 days	Tue 23/5/30	Thu 26/6/11	-5 days											
17	Original	NA	As Possible	1095 days	Tue 23/5/30	Thu 26/5/28	-5 days	1										
18	EOT - Indement weather Cl. 60.1(13)(v)(v)	Thu 26/6/11	Later Than	13.5 days	Fri 26/5/29	Thu 26/6/11	-5 days	17										
19	Section V - Drainage Improvement Works at Shan Ha Tsuen	NA	As Possible	982 days	Tue 23/5/30	Wed 26/2/4	-5 days											
20	Original	NA	As Possible	973 days	Tue 23/5/30	Mon 26/1/26	-5 days	1										
21	EOT - Indement weather Cl. 60.1(13)(v)(v)	Wed 26/2/4	Later Than	9 days	Tue 26/1/27	Wed 26/2/4	-5 days	20										
22	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei	Tue 25/8/26	Finish No Later Than	820 days	Tue 23/5/30	Tue 25/8/26	0 days	1										
23	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	Tue 25/8/26	Finish No Later Than	820 days	Tue 23/5/30	Tue 25/8/26	0 days	1										
44	Planned Completion Day of whole of the works	NA	As Possible	582 days	Tue 25/8/26	Wed 27/3/31	0 days											
45	Section I - Drainage Improvement Works at Sung Shan New Village	NA	As Possible	280 days	Fri 26/5/29	Thu 27/3/4	0 days											
46	EOT - Indement weather (anticipated upto 31 Jul 2024)	Thu 26/8/6	Later Than	70 days	Fri 26/5/29	Thu 26/8/6	0 days	11										
47	EOT - Uncharted/Retained Trees obstructing the works	Sun 27/1/3	Later Than	150 days	Fri 26/8/7	Sun 27/1/3	0 days	46										
48	EOT - Obstruction to Sheet Piling at CH.A50 - CHA280	Thu 27/3/4	Later Than	60 days	Mon 27/1/4	Thu 27/3/4	0 days	47										
49	Section II - Drainage Improvement Works at Tai Wo	NA	As Possible	582 days	Wed 25/8/27	Wed 27/3/31	0 days											
50	EOT - Blockade of access by others	Wed 27/3/31	Later Than	582 days	Wed 25/8/27	Wed 27/3/31	0 days	12										
51	Section III - Drainage Improvement Works at Lin Fa Tei (except flood wall construction and drainage improvement works along Kam Sheung Road)	NA	As Soon As Possible	61.5 days	Wed 26/8/5	Mon 26/10/5	0 days											
52	EOT - Indement weather (anticipated upto 31 Jul 2024)	Mon 26/10/5	Later Than	61.5 days	Wed 26/8/5	Mon 26/10/5	-3 days	13										
53	Section IV - Drainage Improvement Works at Ha Che (except pipe laying works by trenchless method and pipe rehabilitation works across Fan Kam Road)	NA	As Soon As Possible	271.5 days	Sat 26/6/6	Thu 27/3/4	0 days											
54	EOT - Indement weather (anticipated upto 31 Jul 2024)	Thu 26/8/6	Later Than	61.5 days	Sat 26/6/6	Thu 26/8/6	-5 days	16										
55	EOT - Additional request from landlord of HC06/07	Sun 27/1/3	Later Than	150 days	Fri 26/8/7	Sun 27/1/3	0 days	54										
56	EOT - Additional Trees behind Arbutus of HC04	Thu 27/3/4	Later Than	60 days	Mon 27/1/4	Thu 27/3/4	0 days	55										
57	Section V - Drainage Improvement Works at Shan Ha Tsuen	NA	As Possible	66 days	Sat 26/1/31	Mon 26/4/6	0 days											
58	EOT - Indement weather (anticipated upto 31 Jul 2024)	Mon 26/4/6	Later Than	66 days	Sat 26/1/31	Mon 26/4/6	-5 days	19										
59	Section VI - Flood Wall Construction and Drainage Improvement Works along Kam Sheung Road at Lin Fa Tei	NA	As Soon As Possible	400 days	Wed 25/8/27	Wed 26/9/30	0 days											
60	EOT - Difficulty/infeasibility for construction of 1650mm dia. pipe at Kam Sheur	Wed 26/9/30	Later Than	400 days	Wed 25/8/27	Wed 26/9/30	0 days	22										
61	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	NA	As Soon As Possible	0 days	Tue 25/8/26	Tue 25/8/26	582 days	23										
62																		
63	Project establishment	NA	As Possible	307 days	Mon 23/5/15	Sat 24/3/16	0 days											
64	Project Manager's Accommodation	NA	As Possible	209 days	Mon 23/8/21	Sat 24/3/16	1110 days	1FS-1 day										
65	PMI001 - Possession of Works Area at 22 Fan Kam road [A]	Fri 23/9/1	Earlier Than	1 day	Fri 23/9/1	Fri 23/9/1	1110 days											
66	Renovation and Certification of ex. PM accommodation	NA	As Possible	197 days	Sat 23/9/2	Sat 24/3/16	1110 days											
67	Inspection and review of ex. PM accommodation [A]	NA	As Possible	100 days	Sat 23/9/2	Sun 23/12/10	1110 days	65										
68	Arranging time slot with RSS for power and server down [A]	NA	As Possible	83 days	Mon 23/12/11	Sat 24/3/2	1110 days	67										
69	Issuance of check certificates [A]	NA	As Possible	14 days	Sun 24/3/3	Sat 24/3/16	1110 days	68										
70	C11 Tendering procedure for EDMS & DWSS [A]	Mon 23/8/21	Earlier Than	30 days	Mon 23/8/21	Tue 23/9/19	1249 days											
71	Installation and commissioning of EDMS & DWSS [A]	NA	As Possible	40 days	Wed 23/9/20	Sun 23/10/29	1249 days	70										
72	Environmental Team (ET) procurement	NA	As Possible	190 days	Tue 23/8/15	Tue 24/2/20	0 days											
73	C9 Tendering procedure [A]	Tue 23/8/15	Earlier Than	58 days	Tue 23/8/15	Wed 23/10/11	0 days											
74	Commencement for ET (Aurecon) [A]	NA	As Possible	1 day	Thu 23/10/12	Thu 23/10/12	0 days	73										
75	Proposal and Acceptance of ET Members [A]	NA	As Possible	18 days	Fri 23/10/13	Mon 23/10/30	0 days	74										
76	Updating and Acceptance of EM&A Manual [A]	NA	As Possible	23 days	Tue 23/10/31	Wed 23/11/22	0 days	75										
77	Notice of Commencement of Construction to EPD [A]	NA	As Possible	90 days	Thu 23/11/23	Tue 24/2/20	0 days	76										
78	Complete necessary submissions to EPD [A]	NA	As Possible	20 days	Thu 24/2/1	Tue 24/2/20	1135 days	77FF										
83	Setup Public Liaison Team	NA	As Possible	120 days	Mon 23/5/15	Mon 23/9/11	0 days											
84	Recruitment of Public Liaison Officer [A]	NA	As Possible	90 days	Mon 23/5/15	Sat 23/8/12	0 days											
85	Appointment and Acceptance of Public Liaison Officer [A]	NA	As Possible	30 days	Sun 23/8/13	Mon 23/9/11	0 days	84										
93	Works Area establishment	NA	As Possible	44 days	Fri 23/9/1	Sat 23/10/14	15 days											
94	PMI001 - Possession of Works Area at 22 Fan Kam road [A]	Fri 23/9/1	Earlier Than	1 day	Fri 23/9/1	Fri 23/9/1	15 days											
95	Establish concrete haul road and slab [A]	NA	As Possible	43 days	Sat 23/9/2	Sat 23/10/14	1264 days	94										
96	Contractor's Accommodation (office and welfare facilities)	NA	As Possible	145 days	Sat 23/9/2	Wed 24/1/24	15 days											
97	Establish temporary site office (containers) [A]	NA	As Possible	24 days	Sat 23/9/2	Mon 23/9/25	15 days	94										
105	C9 Tendering procedure for Contractor's Site Office [A]	NA	As Possible	28 days	Sat 23/9/2	Fri 23/9/29	1162 days	94										
106	Proposal and Acceptance of Temp. Works Design and Method Statement [A]	NA	As Possible	35 days	Sat 23/9/30	Fri 23/11/3	1162 days	105										
107	Construction of Footing [A]	NA	As Possible	15 days	Sat 23/11/4	Sat 23/11/18	1162 days	106										
108	Construction of Structure [A]	NA	As Possible	45 days	Sun 23/11/19	Tue 24/1/2	1162 days	107										
109	Interior furnishment and Furnitures [A]	NA	As Possible	15 days	Wed 24/1/3	Wed 24/1/17	1162 days	108										
110	Move-in [A]	NA	As Possible	7 days	Thu 24/1/18	Wed 24/1/24	1162 days	109										
111																		
112	Section I	NA	As Possible	1375 days	Tue 23/5/30	Thu 27/3/4	0 days											
2	access date of Portion A	Fri 24/2/23	Later Than	270 days	Tue 23/5/30	Fri 24/2/23	0 days	\\WingTatNasC										
3	Period of section I (Sung Shan New Village)	NA	As Possible	1095 days	Tue 23/5/30	Thu 26/5/28	0 days	\\WingTatNasC										

Revision.: 18.0

Date: 28 February 2025

Task

Critical Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Deadline

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

U-Channel: {U/S}~{D/S}.size+type,length(m)

Drainage Channel: {U/S}~{D/S}

Page 1

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WING TAT CIVIL ENGINEERING CO.LTD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors	Half 1	2023 Half 2					2024 Half 1					2024 Half 2					2025 Half 1					2025 Half 2					2026 Half 1					2026 Half 2					2027 Half 1					2027 Half 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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88	Concreting	NA	As Possible	4 days	Thu 25/12/25	Sun 25/12/28	60 days	87FS-12 days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

WING TAT CIVIL ENGINEERING CO.LTD

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

PROJECT PROGRAMME

ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors	Half 1	2023 Half 2	2024 Half 1	2024 Half 2	2025 Half 1	2025 Half 2	2026 Half 1	2026 Half 2	2027 Half 1	2027 Half 2
									A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A S O N
170	Formwork Erection and Cast-in items	NA	As Possible	30 days	Thu 26/11/5	Fri 26/12/4	0 days	169FS-12 days										
171	Concreting	NA	As Possible	4 days	Mon 26/11/23	Thu 26/11/26	0 days	170FS-12 days										
172	Walls	NA	As Possible	48 days	Fri 26/11/27	Wed 27/1/13	0 days											
173	Rebar Fixing	NA	As Possible	30 days	Fri 26/11/27	Sat 26/12/26	0 days	171										
174	Formwork Erection and Cast-in items	NA	As Possible	30 days	Tue 26/12/15	Wed 27/1/13	0 days	173FS-12 days										
175	Concreting	NA	As Possible	4 days	Sat 27/1/2	Tue 27/1/5	0 days	174FS-12 days										
176	Backfilling and Compaction	NA	As Possible	20 days	Wed 27/1/6	Mon 27/1/25	0 days	175										
177	Removal of Sheetpiles	NA	As Possible	20 days	Sat 27/1/16	Thu 27/2/4	0 days	176FS-10 days										
178	Modify ex. Channel at Outlet	Thu 27/3/4	o Later Than	21 days	Fri 27/2/5	Thu 27/2/25	7 days	177										
179	Connection to ex. Stream	Thu 27/3/4	o Later Than	28 days	Fri 27/2/5	Thu 27/3/4	0 days	177										
180	U-channels	Thu 27/3/4	o Later Than	28 days	Fri 27/2/5	Thu 27/3/4	0 days	177										
181	Facing stone	Thu 27/3/4	o Later Than	28 days	Fri 27/2/5	Thu 27/3/4	0 days	177										
182	ABWF works	Thu 27/3/4	o Later Than	28 days	Fri 27/2/5	Thu 27/3/4	0 days	177										
183	Bedding works	Thu 27/3/4	o Later Than	28 days	Fri 27/2/5	Thu 27/3/4	0 days	177										
113																		
114	Section II	NA	As Possible	1402 days	Tue 23/5/30	Wed 27/3/31	0 days											
2	access date of Portion B	Mon 23/12/25	o Later Than	210 days	Tue 23/5/30	Mon 23/12/25	0 days	\\WingTatNasC										
3	section II (Tai Wo)	NA	As Possible	820 days	Tue 23/5/30	Tue 25/8/26	0 days	\\WingTatNasC										
4	Extended Completion Day	Tue 25/8/26	o Later Than	0 days	Tue 25/8/26	Tue 25/8/26	0 days	3										
5	Planned Completion Day	Wed 27/3/31	o Later Than	251 days	Wed 25/8/27	Mon 26/5/4	331 days	3										
6	Early access [A]	NA	As Possible	144 days	Tue 23/5/30	Fri 23/10/20	0 days	\\WingTatNasC										
7	Site Establishment	NA	As Possible	469 days	Tue 23/9/26	Mon 25/1/6	25 days											
8	Prepare and Accept Temp. Works Design and Method Statement	Wed 27/3/31	o Later Than	461 days	Tue 23/9/26	Sun 24/12/29	822 days	\\WingTatNasC										
9	Public Liaison and Negotiation with Village Rep.	NA	As Possible	103 days	Fri 23/10/20	Tue 24/1/30	342 days	6FS-1 day										
10	Initial Survey	NA	As Possible	80 days	Sat 23/10/21	Mon 24/1/8	0 days	6										
11	Initial Safety & Environmental measures	NA	As Possible	80 days	Sat 23/10/21	Mon 24/1/8	0 days	6										
13	EIAO Commencement of Construction	NA	As Possible	1 day	Wed 24/2/21	Wed 24/2/21	328 days	\\WingTatNasC										
14	Environmental Baseline Monitoring	NA	As Possible	15 days	Tue 24/1/23	Tue 24/2/6	328 days	13FS-30 days										
15	Subcontracting of works	NA	As Possible	120 days	Sat 23/10/21	Sat 24/2/17	350 days											
16	Preparation of tendering documents	NA	As Possible	30 days	Sat 23/10/21	Sun 23/11/19	350 days	6										
17	EWN 007 Ambiguities on drawings	NA	As Possible	60 days	Mon 23/11/20	Thu 24/1/18	350 days	16										
18	C9 Tendering procedure for Tai Wo RC works	NA	As Possible	30 days	Fri 24/1/19	Sat 24/2/17	350 days	17										
20	Setup of instrumentation and monitoring	NA	As Possible	76 days	Tue 24/1/9	Sun 24/3/24	281 days	11,10										
21	Condition Survey [A]	NA	As Possible	15 days	Tue 24/1/9	Tue 24/1/23	342 days	11,10										
22	Tree Survey [A]	NA	As Possible	15 days	Tue 24/1/9	Tue 24/1/23	289 days	11,10										
23	[PM]xxx] TPRP for Additional Trees (impact to be ascertained)	NA	As Possible	60 days	Wed 24/1/24	Sat 24/3/23	289 days	22										
24	Establish access(es) to channels	NA	As Possible	15 days	Tue 24/1/9	Tue 24/1/23	0 days	11,10										
25	[NCE]xxx] [EWN008] Blockade of access by others (impact to be ascertained)	NA	As Possible	349 days	Wed 24/1/24	Mon 25/1/6	0 days	24										
26	UU detection [A]	NA	As Possible	7 days	Wed 24/1/24	Tue 24/1/30	342 days	21,24										
27	Site Clearance [A]	NA	As Possible	7 days	Mon 24/3/25	Sun 24/3/31	281 days	22,20,14										
28	Drainage Channels Works (Dry Season Oct-Mar only)	NA	As Possible	776 days	Tue 25/1/7	Sun 27/2/21	0 days											
29	Guarding / Barrier / Hoarding	NA	As Possible	18 days	Tue 25/1/7	Fri 25/1/24	0 days	27,26,9,25,23										
30	Demolish fences and temp. structure	NA	As Possible	10 days	Tue 25/1/7	Thu 25/1/16	0 days	27,26,9,25,23										
31	Demolish & relocate hoarding, fencing YLL803	NA	As Possible	10 days	Tue 25/1/7	Thu 25/1/16	0 days	27,26,9,25,23										
32	CH.A200- CH.A288.29	NA	As Possible	302 days	Fri 25/1/17	Fri 25/11/14	0 days											
33	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	NA	As Possible	40 days	Fri 25/1/17	Tue 25/2/25	0 days	30,31,29FS-8 d.										
34	Excavation and Lateral Support	NA	As Possible	40 days	Sun 25/2/2	Thu 25/3/13	0 days	33FS-24 days,1										
35	Base Slab	NA	As Possible	27 days	Tue 25/2/18	Sun 25/3/16	0 days											
36	Rebar Fixing	NA	As Possible	20 days	Tue 25/2/18	Sun 25/3/9	0 days	34FS-24 days										
37	Formwork Erection and Cast-in items	NA	As Possible	20 days	Tue 25/2/25	Sun 25/3/16	0 days	36FS-13 days										
38	Concreting	NA	As Possible	1 day	Tue 25/3/4	Tue 25/3/4	0 days	37FS-13 days										
39	Walls	NA	As Possible	27 days	Wed 25/3/5	Mon 25/3/31	0 days											
40	Rebar Fixing	NA	As Possible	20 days	Wed 25/3/5	Mon 25/3/24	0 days	38										
41	Formwork Erection and Cast-in items	NA	As Possible	20 days	Wed 25/3/12	Mon 25/3/31	0 days	40FS-13 days										
42	Concreting	NA	As Possible	1 day	Wed 25/3/19	Wed 25/3/19	742 days	41FS-13 days										
43	[NCE]xxx] [EWN008] No works at wet season	NA	As Possible	183 days	Tue 25/4/1	Tue 25/9/30	0 days	41										
44	Backfilling and Compaction	NA	As Possible	30 days	Wed 25/10/1	Thu 25/10/30	0 days	43										
45	Removal of Sheetpiles	NA	As Possible	30 days	Thu 25/10/16	Fri 25/11/14	0 days	44FS-15 days										
46	Connection to ex. Channel at Outlet	Wed 27/3/31	o Later Than	16 days	Fri 25/10/31	Sat 25/11/15	0 days	45FS-15 days										
47	CH.A100- CH.A200	NA	As Possible	151 days	Sat 25/11/1	Tue 26/3/31	0 days											
48	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	NA	As Possible	45 days	Sat 25/11/1	Mon 25/12/15	0 days	46FS-15 days										
49	Excavation and Lateral Support	NA	As Possible	45 days	Wed 25/11/26	Fri 26/1/9	0 days	48FS-20 days										
50	Base Slab	NA	As Possible	45 days	Sun 25/12/21	Tue 26/2/3	0 days											
51	Rebar Fixing	NA	As Possible	30 days	Sun 25/12/21	Mon 26/1/19	0 days	49FS-20 days										
52	Formwork Erection and Cast-in items	NA	As Possible	30 days	Mon 26/1/5	Tue 26/2/3	0 days	51FS-15 days										
53	Concreting	NA	As Possible	1 day	Tue 26/1/20	Tue 26/1/20	0 days	52FS-15 days										
54	Walls	NA	As Possible	37 days	Wed 26/1/21	Thu 26/2/26	0 days											
55	Rebar Fixing	NA	As Possible	25 days	Wed 26/1/21	Sat 26/2/14	0 days	53										
56	Formwork Erection and Cast-in items	NA	As Possible	25 days	Mon 26/2/2	Thu 26/2/26	0 days	55FS-13 days										
57	Concreting	NA	As Possible	1 day	Sat 26/2/14	Sat 26/2/14	0 days	56FS-13 days										
58	Backfilling and Compaction	NA	As Possible	30 days	Sun 26/2/15	Mon 26/3/16	0 days	57										
59	Removal of Sheetpiles	NA	As Possible	30 days	Mon 26/3/2	Tue 26/3/31	0 days	58FS-15 days										
60	[NCE]xxx] [EWN008] No works at wet season	NA	As Possible	183 days	Wed 26/4/1	Wed 26/9/30	0 days	59										
61	CH.A19.69- CH.A100	NA	As Possible	111 days	Thu 26/10/1	Tue 27/1/19	0 days											
62	Sheetpiling & Temp. Drainage Diversion (for non-open-cut portions)	NA	As Possible	40 days	Thu 26/10/1	Mon 26/11/9	0 days	60										
63	Excavation and Lateral Support	NA	As Possible	40 days	Wed 26/10/21	Sun 26/11/29	0 days	62FS-20 days										
64	Base Slab	NA	As Possible	27 days	Fri 26/11/6	Wed 26/12/2	0 days											
65	Rebar Fixing	NA	As Possible	20 days	Fri 26/11/6	Wed 26/11/25	0 days	63FS-24 days										
66	Formwork Erection and Cast-in items	NA	As Possible	20 days	Fri 26/11/13	Wed 26/12/2	0 days	65FS-13 days										
67	Concreting	NA	As Possible	1 day	Fri 26/11/20	Fri 26/11/20	0 days	66FS-13 days										
68	Walls	NA	As Possible	27 days	Sat 26/11/21	Thu 26/12/17	0 days											
69	Rebar Fixing	NA	As Possible	20 days	Sat 26/11/21	Thu 26/12/10	0 days	67										

Revision.: 18.0

Date: 28 February 2025

Task

Task Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Critical Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Deadline

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

U-Channel: {U/S}~{D/S}.size+type,length(m)

Drainage Channel: {U/S}~{D/S}

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WING TAT CIVIL ENGINEERING CO LTD

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

PROJECT PROGRAMME

ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors
70	Formwork Erection and Cast-in items	NA	As Possible	20 days	Sat 26/11/28	Thu 26/12/17	0 days	69FS-13 days
71	Concreting	NA	As Possible	1 day	Sat 26/12/5	Sat 26/12/5	0 days	70FS-13 days
72	Backfilling and Compaction	NA	As Possible	30 days	Sun 26/12/6	Mon 27/1/4	0 days	71
73	Removal of Sheetpiles	NA	As Possible	30 days	Mon 26/12/21	Tue 27/1/19	0 days	72FS-15 days
74	900pipewith flap valve	Wed 27/3/31	Later Than	14 days	Tue 27/1/5	Mon 27/1/18	0 days	73FS-15 days
75	Box Culvert & Pedestrian Crossing	Wed 27/3/31	Later Than	28 days	Thu 27/1/14	Wed 27/2/10	0 days	74FS-5 days
76	ABWF works	Wed 27/3/31	Later Than	21 days	Mon 27/2/1	Sun 27/2/21	38 days	75FS-10 days
77	Bedding works	Wed 27/3/31	Later Than	21 days	Mon 27/2/1	Sun 27/2/21	38 days	75FS-10 days
78	U-Channel Works	NA	As Possible	30 days	Mon 27/2/1	Tue 27/3/2	0 days	
79	CH.A0.00~CH.A16.40,900CU,L=16.40	NA	As Possible	30 days	Mon 27/2/1	Tue 27/3/2	0 days	
80	Excavation and Lateral Support	NA	As Possible	30 days	Mon 27/2/1	Tue 27/3/2	0 days	75FS-10 days
81	Channel Formwork Erection	NA	As Possible	14 days	Tue 27/2/16	Mon 27/3/1	0 days	80FS-15 days
82	Concreting	NA	As Possible	1 day	Mon 27/2/15	Mon 27/2/15	0 days	81FS-15 days
83	Drain Laying Works	NA	As Possible	44 days	Tue 27/2/16	Wed 27/3/31	0 days	
84	CH.A16.40~CH.A19.69,900PC,B,L=3.30,D=1.5	NA	As Possible	44 days	Tue 27/2/16	Wed 27/3/31	0 days	
85	Excavation and Lateral Support	NA	As Possible	30 days	Tue 27/2/16	Wed 27/3/17	0 days	82
86	Drain Laying	NA	As Possible	20 days	Wed 27/3/3	Mon 27/3/22	0 days	85FS-15 days
87	Bedding and Backfilling	NA	As Possible	14 days	Sat 27/3/13	Fri 27/3/26	0 days	86FS-10 days
88	Reinstatement	Wed 27/3/31	Later Than	10 days	Mon 27/3/22	Wed 27/3/31	0 days	87FS-5 days
115								
116	Section III	NA	As Possible	1225 days	Tue 23/5/30	Mon 26/10/5	0 days	
2	access date of Portion C1 & C2	Fri 24/2/23	Later Than	270 days	Tue 23/5/30	Fri 24/2/23	0 days	\\WingTatNasC
3	section III (Lin Fa Tei)	NA	As Possible	1155 days	Tue 23/5/30	Mon 26/7/27	0 days	\\WingTatNasC
4	Extended Completion Day	Sat 26/8/8	Later Than	11.5 days	Tue 26/7/28	Sat 26/8/8	0 days	3
5	Planned Completion Day	Mon 26/10/5	Later Than	70 days	Tue 26/7/28	Mon 26/10/5	0 days	3
6	Early access (partial) [A]	NA	As Possible	200 days	Tue 23/5/30	Fri 23/12/15	70 days	\\WingTatNasC
7	Site Establishment	NA	As Possible	989 days	Tue 23/9/12	Wed 26/5/27	0 days	
8	Prepare and Accept Temp. Works Design and Method Statement	NA	As Possible	975 days	Tue 23/9/26	Wed 26/5/27	35 days	\\WingTatNasC
9	Public Liaison and Negotiation with Village Rep. [A]	NA	As Possible	164 days	Tue 23/9/12	Thu 24/2/22	0 days	\\WingTatNasC
10	Initial Survey	NA	As Possible	825 days	Fri 24/2/23	Wed 26/5/27	35 days	9.6FS-1 day
12	Initial Safety & Environmental measures [A]	NA	As Possible	14 days	Fri 24/2/23	Thu 24/3/7	0 days	9.6FS-1 day
14	EIAO Commencement of Construction [A]	NA	As Possible	28 days	Wed 24/2/21	Tue 24/3/19	930 days	\\WingTatNasC
16	Environmental Baseline Monitoring [A]	NA	As Possible	15 days	Mon 24/2/19	Mon 24/3/4	1122 days	14FS-30 days
17	Subcontracting of works	Mon 26/10/5	Later Than	250 days	Sat 23/12/16	Wed 24/8/21	775 days	6
18	Setup of instrumentation and monitoring [A]	NA	As Possible	15 days	Fri 24/3/8	Fri 24/3/22	0 days	12
19	Condition Survey [A]	NA	As Possible	15 days	Fri 24/3/8	Fri 24/3/22	0 days	12
20	Freshwater Crab Translocation Plan [A]	NA	As Possible	15 days	Fri 24/3/8	Fri 24/3/22	0 days	12
21	Archaeological Survey	NA	As Possible	300 days	Fri 24/3/8	Wed 25/1/1	333 days	12
22	Tree Survey [A]	NA	As Possible	15 days	Fri 24/3/8	Fri 24/3/22	0 days	12
23	Vegetation Survey [A]	NA	As Possible	15 days	Fri 24/3/8	Fri 24/3/22	0 days	12
24	UU detection [A]	NA	As Possible	15 days	Sat 24/3/23	Sat 24/4/6	0 days	19,20
25	Site Clearance [A]	NA	As Possible	15 days	Sat 24/3/23	Sat 24/4/6	0 days	22,18,12,23
26	Establish access(es) to channels [A]	Mon 26/10/5	Later Than	25 days	Sun 24/4/7	Wed 24/5/1	0 days	25,24
27	Guarding / Barrier / Hoarding [A]	NA	As Possible	25 days	Sun 24/4/7	Wed 24/5/1	0 days	25,24
28	Drainage Channels Works	NA	As Possible	887 days	Thu 24/5/2	Mon 26/10/5	0 days	
29	Demolish & relocate retaining wall YLL795/A/4-5 [A]	NA	As Possible	30 days	Thu 24/5/2	Fri 24/5/31	0 days	27,26
30	Pedestrian & Vehicular Crossing no. 1 [A]	NA	As Possible	45 days	Sat 24/5/11	Mon 24/6/24	0 days	29FS-21 days
31	CLP Cable Trough	NA	As Possible	30 days	Tue 24/6/25	Wed 24/7/24	980 days	30
32	LFT06 CH.A173.5~CH.A227.75 (PVC1)	NA	As Possible	138 days	Tue 24/6/18	Sat 24/11/2	0 days	
33	Temp. Drainage Diversion / Sheetpiling [A]	NA	As Possible	40 days	Tue 24/6/18	Sat 24/7/27	0 days	30FS-7 days
34	Excavation and Lateral Support [A]	NA	As Possible	40 days	Sat 24/7/13	Wed 24/8/21	0 days	33FS-15 days
35	Ground and Edge Beams	NA	As Possible	41 days	Mon 24/8/5	Sat 24/9/14	0 days	
36	Install precast reinforcement cage (ground beam) [A]	NA	As Possible	28 days	Mon 24/8/5	Sun 24/9/1	0 days	34FS-17 days
37	Rebar Fixing [A]	NA	As Possible	25 days	Tue 24/8/13	Fri 24/9/6	0 days	36FS-20 days
38	Formwork Erection and Cast-in items [A]	NA	As Possible	25 days	Wed 24/8/21	Sat 24/9/14	0 days	37FS-17 days
39	Concreting [A]	NA	As Possible	1 day	Thu 24/8/29	Thu 24/8/29	0 days	38FS-17 days
40	Walls	NA	As Possible	43 days	Fri 24/8/30	Fri 24/10/11	710 days	
41	Rebar Fixing	NA	As Possible	30 days	Fri 24/8/30	Sat 24/9/28	710 days	39
42	Formwork Erection and Cast-in items	NA	As Possible	30 days	Thu 24/9/12	Fri 24/10/11	710 days	41FS-17 days
43	Concreting	NA	As Possible	1 day	Wed 24/9/25	Wed 24/9/25	710 days	42FS-17 days
44	Backfilling and Compaction	NA	As Possible	30 days	Thu 24/9/26	Fri 24/10/25	710 days	43
45	Removal of Sheetpiles	NA	As Possible	25 days	Wed 24/10/9	Sat 24/11/2	879 days	44FS-17 days
46	LFT07 CH.A227.5~CH.A300.75	NA	As Possible	109 days	Tue 24/9/24	Fri 25/1/10	0 days	
47	Temp. Drainage Diversion / Sheetpiling [A]	NA	As Possible	33 days	Tue 24/9/24	Sat 24/10/26	0 days	39FS+25 days
48	Excavation and Lateral Support [A]	NA	As Possible	33 days	Sat 24/10/12	Wed 24/11/13	0 days	47FS-15 days
49	Ground and Edge Beams	NA	As Possible	41 days	Mon 24/10/28	Sat 24/12/7	0 days	
50	Install precast reinforcement cage (ground beam) [A]	NA	As Possible	28 days	Mon 24/10/28	Sun 24/11/24	0 days	48FS-17 days
51	Rebar Fixing [A]	NA	As Possible	25 days	Tue 24/11/5	Fri 24/11/29	0 days	50FS-20 days
52	Formwork Erection and Cast-in items [A]	NA	As Possible	25 days	Wed 24/11/13	Sat 24/12/7	0 days	51FS-17 days
53	Concreting [A]	NA	As Possible	1 day	Thu 24/11/21	Thu 24/11/21	0 days	52FS-17 days
54	Walls	NA	As Possible	33 days	Fri 24/11/22	Tue 24/12/24	622 days	
55	Rebar Fixing	NA	As Possible	25 days	Fri 24/11/22	Mon 24/12/16	622 days	53
56	Formwork Erection and Cast-in items	NA	As Possible	25 days	Sat 24/11/30	Tue 24/12/24	622 days	55FS-17 days
57	Concreting	NA	As Possible	1 day	Sun 24/12/8	Sun 24/12/8	622 days	56FS-17 days
58	Backfilling and Compaction	NA	As Possible	25 days	Mon 24/12/9	Thu 25/1/2	622 days	57
59	Removal of Sheetpiles	NA	As Possible	25 days	Tue 24/12/17	Fri 25/1/10	622 days	58FS-17 days
60	Pedestrian & Vehicular Crossing no. 2	Mon 26/10/5	Later Than	28 days	Wed 24/12/25	Tue 25/1/21	622 days	59FS-17 days
61	LFT05 CH.A163.00~CH.A173.50	NA	As Possible	72 days	Wed 24/12/25	Thu 25/3/6	0 days	
62	Temp. Drainage Diversion / Sheetpiling [A]	NA	As Possible	27 days	Wed 24/12/25	Mon 25/1/20	0 days	53FS+33 days
63	Excavation and Lateral Support	NA	As Possible	27 days	Mon 25/1/6	Sat 25/2/1	0 days	62FS-15 days
64	Ground and Edge Beams	NA	As Possible	33 days	Thu 25/1/16	Mon 25/2/17	0 days	
65	Rebar Fixing [A]	NA	As Possible	25 days	Thu 25/1/16	Sun 25/2/9	0 days	63FS-17 days

Revision.: 18.0

Date: 28 February 2025

Task

Task

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Milestone

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Rolled Up Task

Rolled Up Critical Task

Rolled Up Progress

Split

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Deadline

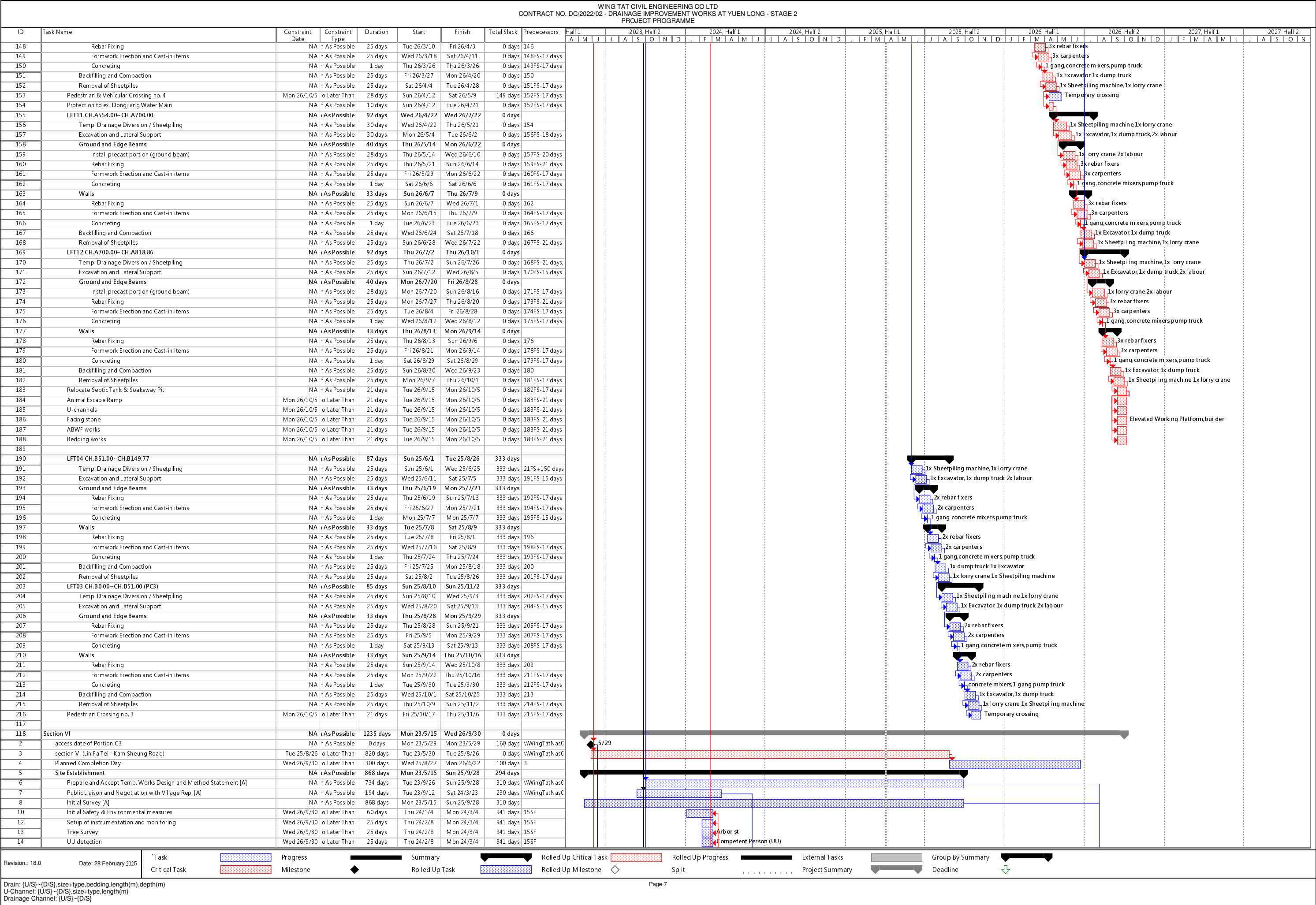
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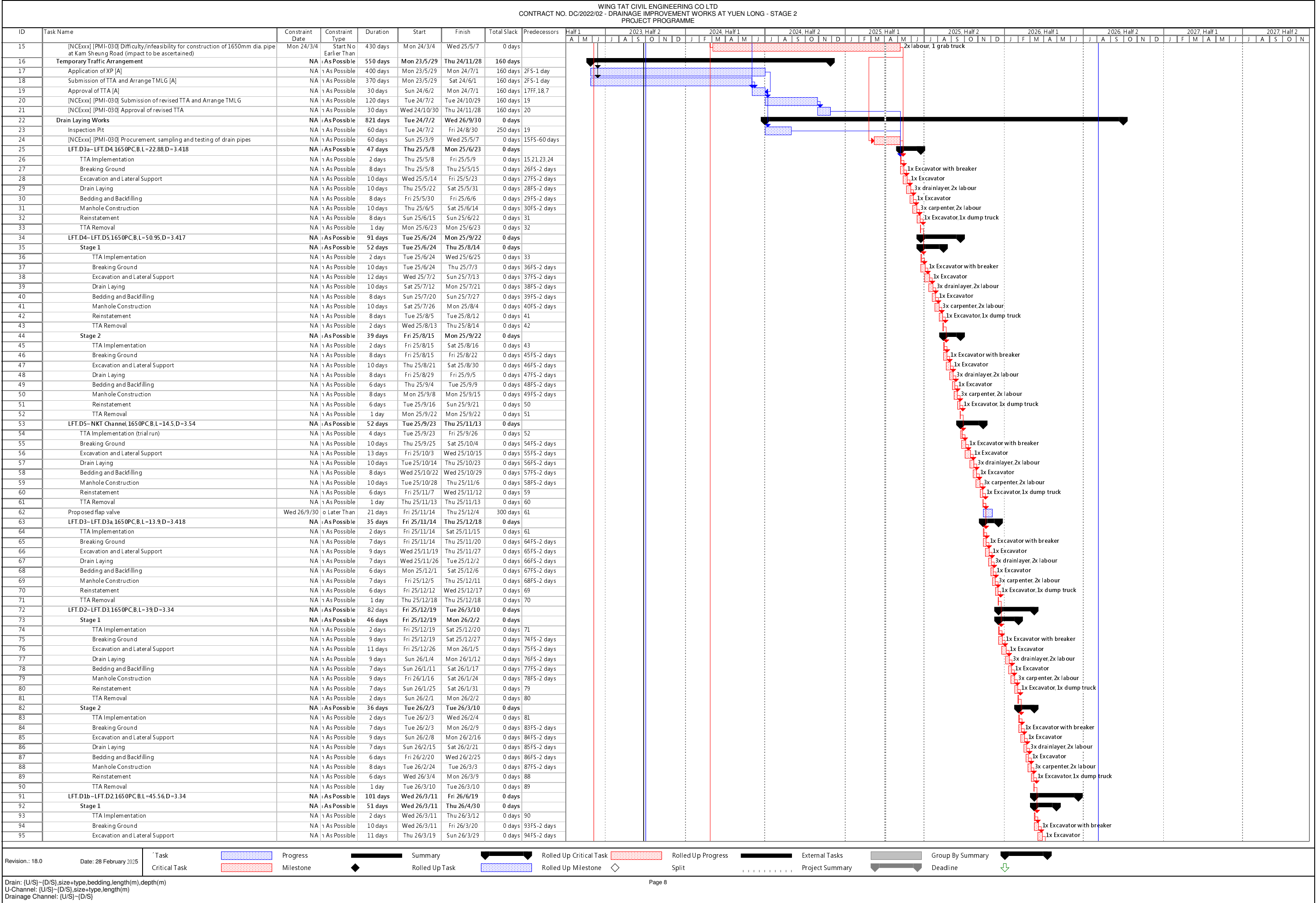
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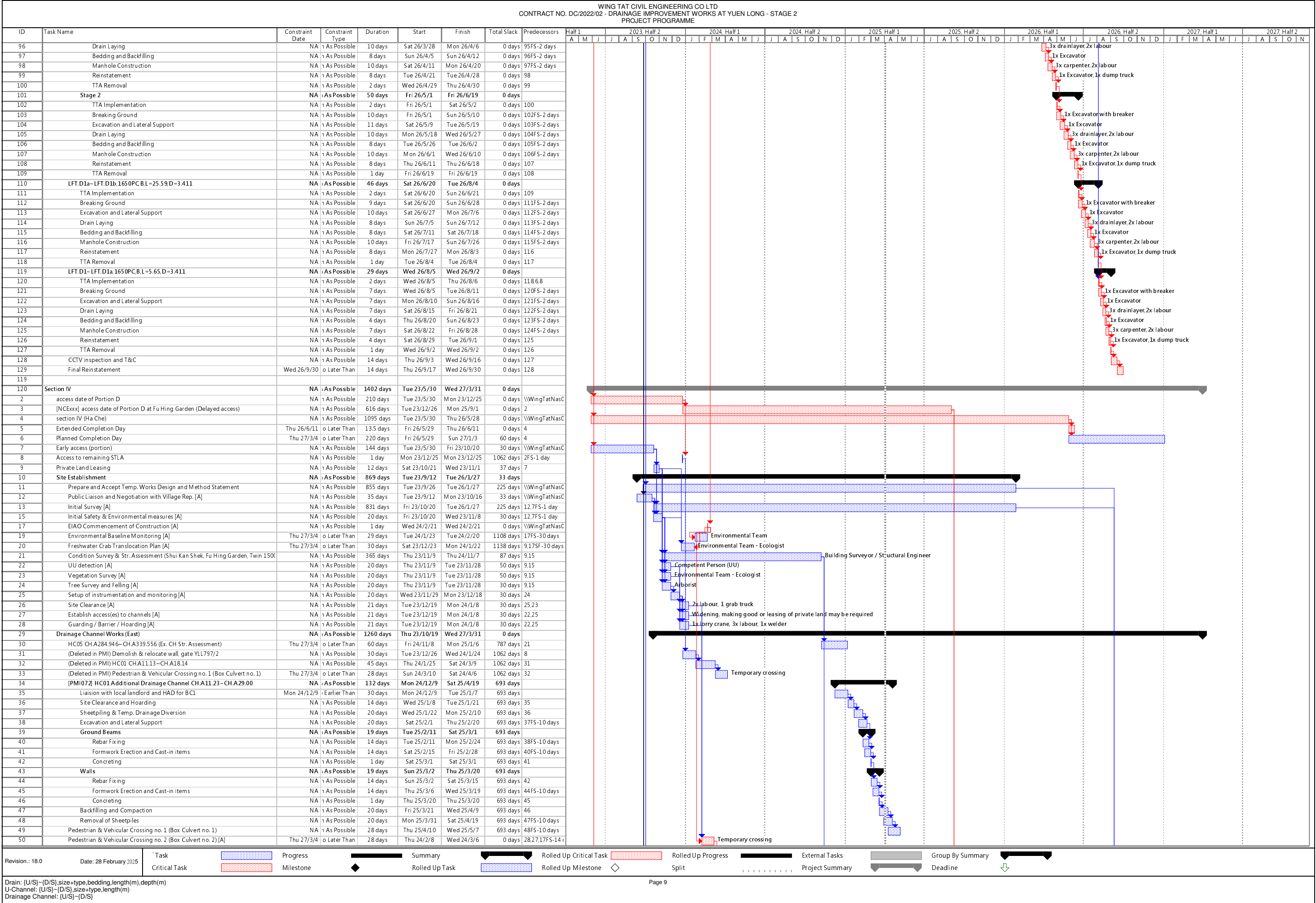
Drainage Channel: {U/S}~{D/S}

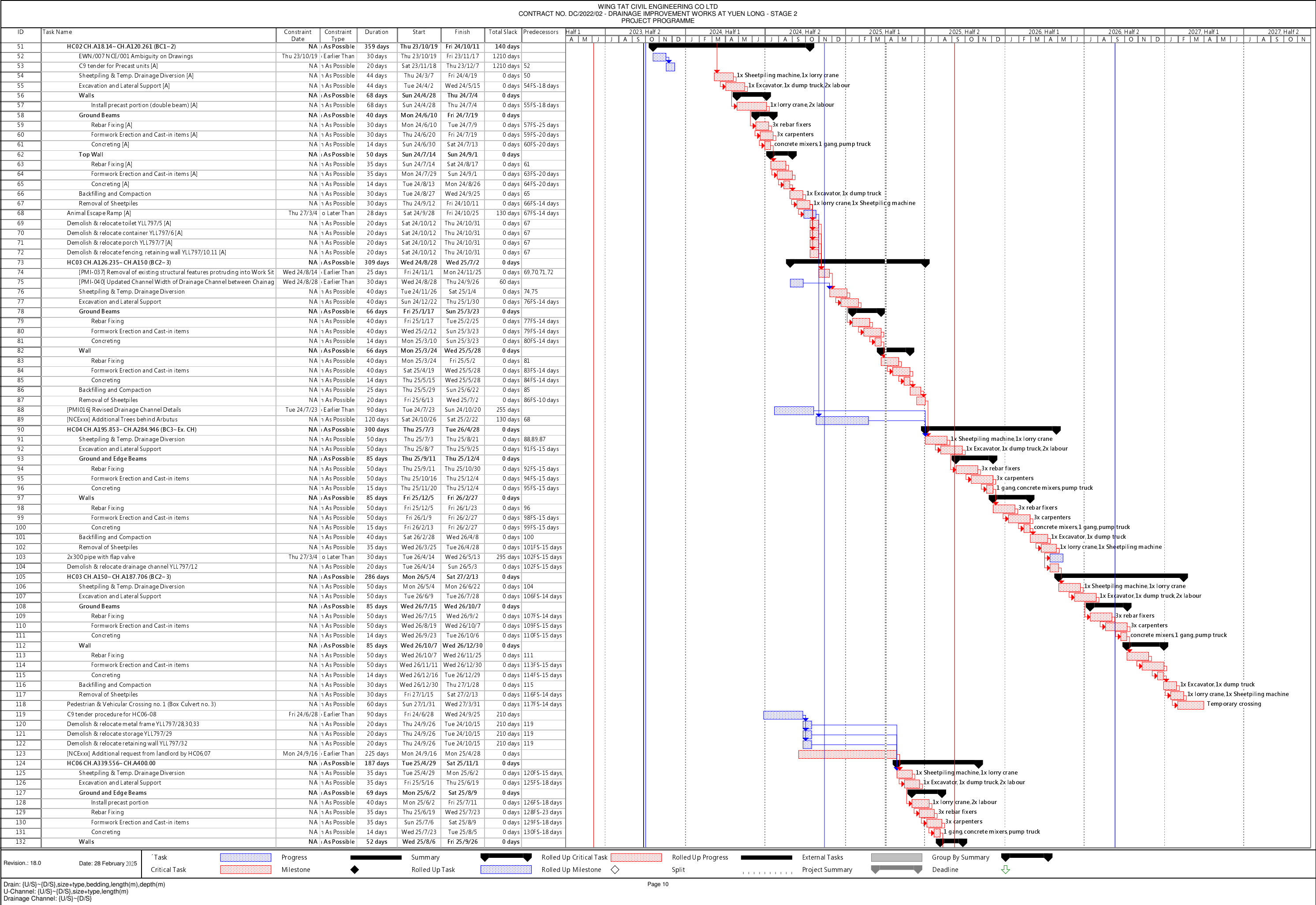
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66	Formwork Erection and Cast-in items [A]	NA	As Possible	25 days	Fri 25/1/24	Mon 25/2/17	0 days	65FS-17 days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							









WING TAT CIVIL ENGINEERING CO.LTD

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

PROJECT PROGRAMME

ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors
133	Rebar Fixing	NA	As Possible	35 days	Wed 25/8/6	Tue 25/9/9	0 days	131
134	Formwork Erection and Cast-in items	NA	As Possible	35 days	Sat 25/8/23	Sat 25/9/26	0 days	133FS-18 days
135	Concreting	NA	As Possible	14 days	Tue 25/9/9	Mon 25/9/22	0 days	134FS-18 days
136	Backfilling and Compaction	NA	As Possible	30 days	Tue 25/9/23	Wed 25/10/22	0 days	135
137	Removal of Sheetpiles	NA	As Possible	30 days	Fri 25/10/3	Sat 25/11/1	0 days	136FS-20 days
138	Temp support to 3x ex. Cable bridge	Thu 27/3/4	Later Than	60 days	Mon 25/10/13	Thu 25/12/11	448 days	137FS-20 days
139	Demolish & relocate porch YLL797/34.37	NA	As Possible	20 days	Mon 25/10/13	Sat 25/11/1	0 days	137FS-20 days
140	Demolish & relocate car body YLL797/36	NA	As Possible	20 days	Mon 25/10/13	Sat 25/11/1	0 days	137FS-20 days
141	Demolish & relocate godown YLL797/35	NA	As Possible	20 days	Mon 25/10/13	Sat 25/11/1	0 days	137FS-20 days
142	HC07 CH.A400.00~CH.A500.00	NA	As Possible	187 days	Sat 25/10/18	Wed 26/4/22	0 days	
143	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	35 days	Sat 25/10/18	Fri 25/11/21	0 days	139FS-15 days,
144	Excavation and Lateral Support	NA	As Possible	35 days	Tue 25/11/4	Mon 25/12/8	0 days	143FS-18 days
145	Ground and Edge Beams	NA	As Possible	69 days	Fri 25/11/21	Wed 26/1/28	0 days	
146	Install precast portion	NA	As Possible	40 days	Fri 25/11/21	Tue 25/12/30	0 days	144FS-18 days
147	Rebar Fixing	NA	As Possible	35 days	Mon 25/12/8	Sun 26/1/11	0 days	146FS-23 days
148	Formwork Erection and Cast-in items	NA	As Possible	35 days	Thu 25/12/25	Wed 26/1/28	0 days	147FS-18 days
149	Concreting	NA	As Possible	14 days	Sun 26/1/11	Sat 26/1/24	0 days	148FS-18 days
150	Walls	NA	As Possible	52 days	Sun 26/1/25	Tue 26/3/17	0 days	
151	Rebar Fixing	NA	As Possible	35 days	Sun 26/1/25	Sat 26/2/28	0 days	149
152	Formwork Erection and Cast-in items	NA	As Possible	35 days	Wed 26/2/11	Tue 26/3/17	0 days	151FS-18 days
153	Concreting	NA	As Possible	14 days	Sat 26/2/28	Fri 26/3/13	0 days	152FS-18 days
154	Backfilling and Compaction	NA	As Possible	30 days	Sat 26/3/14	Sun 26/4/12	0 days	153
155	Removal of Sheetpiles	NA	As Possible	30 days	Tue 26/3/24	Wed 26/4/22	0 days	154FS-20 days
156	Demolish & relocate porch hoarding YLL797/44	NA	As Possible	20 days	Fri 26/4/3	Wed 26/4/22	0 days	155FS-20 days
157	Demolish & relocate porch YLL797/38,39	NA	As Possible	20 days	Fri 26/4/3	Wed 26/4/22	0 days	155FS-20 days
158	HC08 CH.A500.00~CH.A546.816	NA	As Possible	170 days	Wed 26/4/8	Thu 26/9/24	0 days	
159	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	30 days	Wed 26/4/8	Thu 26/5/7	0 days	156FS-15 days,
160	Excavation and Lateral Support	NA	As Possible	30 days	Thu 26/4/23	Fri 26/5/22	0 days	159FS-15 days
161	Ground and Edge Beams	NA	As Possible	65 days	Fri 26/5/8	Sat 26/7/11	0 days	
162	Install precast portion	NA	As Possible	40 days	Fri 26/5/8	Tue 26/6/16	0 days	160FS-15 days
163	Rebar Fixing	NA	As Possible	30 days	Thu 26/5/28	Fri 26/6/26	0 days	162FS-20 days
164	Formwork Erection and Cast-in items	NA	As Possible	30 days	Fri 26/6/12	Sat 26/7/11	0 days	163FS-15 days
165	Concreting	NA	As Possible	10 days	Sat 26/6/27	Mon 26/7/6	0 days	164FS-15 days
166	Walls	NA	As Possible	45 days	Tue 26/7/7	Thu 26/8/20	0 days	
167	Rebar Fixing	NA	As Possible	30 days	Tue 26/7/7	Wed 26/8/5	0 days	165
168	Formwork Erection and Cast-in items	NA	As Possible	30 days	Wed 26/7/22	Thu 26/8/20	0 days	167FS-15 days
169	Concreting	NA	As Possible	10 days	Thu 26/8/6	Sat 26/8/15	0 days	168FS-15 days
170	Backfilling and Compaction	NA	As Possible	30 days	Sun 26/8/16	Mon 26/9/14	0 days	169
171	Removal of Sheetpiles	NA	As Possible	30 days	Wed 26/8/26	Thu 26/9/24	0 days	170FS-20 days
172	Pedestrian & Vehicular Crossing no. 3 (Box Culvert no.4)	Thu 27/3/4	Later Than	60 days	Sat 26/9/5	Tue 26/11/3	121 days	171FS-20 days
173	Demolish & relocate hoarding wall YL797/40	NA	As Possible	20 days	Sat 26/9/5	Thu 26/9/24	0 days	171FS-20 days
174	Demolish & relocate storage YLL797/42	NA	As Possible	20 days	Sat 26/9/5	Thu 26/9/24	0 days	171FS-20 days
175	HC09 CH.A546.816~CH.A611.404	NA	As Possible	155 days	Thu 26/9/10	Thu 27/2/11	0 days	
176	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	30 days	Thu 26/9/10	Fri 26/10/9	0 days	173FS-15 days,
177	Excavation and Lateral Support	NA	As Possible	30 days	Fri 26/9/25	Sat 26/10/24	0 days	176FS-15 days
178	Base Slab	NA	As Possible	45 days	Sat 26/10/10	Mon 26/11/23	0 days	
179	Rebar Fixing	NA	As Possible	30 days	Sat 26/10/10	Sun 26/11/8	0 days	177FS-15 days
180	Formwork Erection and Cast-in items	NA	As Possible	30 days	Sun 26/10/25	Mon 26/11/23	0 days	179FS-15 days
181	Concreting	NA	As Possible	10 days	Mon 26/11/9	Wed 26/11/18	0 days	180FS-15 days
182	Walls and Roof Slab	NA	As Possible	45 days	Thu 26/11/19	Sat 27/1/2	0 days	
183	Rebar Fixing	NA	As Possible	30 days	Thu 26/11/19	Fri 26/12/18	0 days	181
184	Formwork Erection and Cast-in items	NA	As Possible	30 days	Fri 26/12/4	Sat 27/1/2	0 days	183FS-15 days
185	Concreting	NA	As Possible	10 days	Sat 26/12/19	Mon 26/12/28	0 days	184FS-15 days
186	Backfilling and Compaction	NA	As Possible	30 days	Tue 26/12/29	Wed 27/1/27	0 days	185
187	Removal of Sheetpiles	NA	As Possible	30 days	Wed 27/1/13	Thu 27/2/11	0 days	186FS-15 days
188	Facing stone	Thu 27/3/4	Later Than	21 days	Fri 27/2/12	Thu 27/3/4	0 days	187
189	ABWF works	Thu 27/3/4	Later Than	21 days	Fri 27/2/12	Thu 27/3/4	0 days	187
190	Bedding works	Thu 27/3/4	Later Than	21 days	Fri 27/2/12	Thu 27/3/4	0 days	187
191	Drainage Channel Works (West)	NA	As Possible	847 days	Fri 24/11/8	Thu 27/3/4	0 days	
192	HC11 CH.A674.419~CH.A740.619 (Ex. CH Str. Assessment)	Thu 27/3/4	Later Than	90 days	Fri 24/11/8	Wed 25/2/5	87 days	21
193	[NCExxx] Structural review for Fu Hing Garden channel	NA	As Possible	120 days	Thu 25/2/6	Thu 25/6/5	87 days	192
194	Demolish ex. Geotechnical feature 6NE-B/R19	NA	As Possible	66 days	Mon 25/9/1	Wed 25/11/5	0 days	3FS-1 day
195	Demolish ex. Geotechnical feature 6NE-B/R19	NA	As Possible	66 days	Mon 25/9/1	Wed 25/11/5	0 days	193,3FS-1 day
196	Demolish & relocate boundary wall, platform, gate YLL797/46	NA	As Possible	66 days	Mon 25/9/1	Wed 25/11/5	0 days	193,3FS-1 day
197	HC12 CH.A740.619~CH.A863.619	NA	As Possible	263 days	Wed 25/10/22	Sat 26/7/11	0 days	
198	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	60 days	Wed 25/10/22	Sat 25/12/20	0 days	194FS-15 days,
199	Excavation and Lateral Support	NA	As Possible	60 days	Wed 25/11/26	Sat 26/1/24	0 days	198FS-25 days
200	Ground and Edge Beams	NA	As Possible	80 days	Wed 25/12/31	Fri 26/3/20	0 days	
201	Rebar Fixing	NA	As Possible	50 days	Wed 25/12/31	Wed 26/2/18	0 days	199FS-25 days
202	Formwork Erection and Cast-in items	NA	As Possible	50 days	Fri 26/1/30	Fri 26/3/20	0 days	201FS-20 days
203	Concreting	NA	As Possible	14 days	Sun 26/3/1	Sat 26/3/14	0 days	202FS-20 days
204	Walls	NA	As Possible	80 days	Sun 26/3/15	Tue 26/6/2	0 days	
205	Rebar Fixing	NA	As Possible	50 days	Sun 26/3/15	Sun 26/5/3	0 days	203
206	Formwork Erection and Cast-in items	NA	As Possible	50 days	Tue 26/4/14	Tue 26/6/2	0 days	205FS-20 days
207	Concreting	NA	As Possible	14 days	Thu 26/5/14	Wed 26/5/27	0 days	206FS-20 days
208	Backfilling and Compaction	NA	As Possible	35 days	Thu 26/5/28	Wed 26/7/1	0 days	207
209	Removal of Sheetpiles	NA	As Possible	30 days	Fri 26/6/12	Sat 26/7/11	0 days	208FS-20 days
210	HC13 CH.A863.619~CH.A905.630	NA	As Possible	255 days	Mon 26/6/22	Wed 27/3/3	0 days	
211	Sheetpiling & Temp. Drainage Diversion	NA	As Possible	60 days	Mon 26/6/22	Thu 26/8/20	0 days	209FS-20 days
212	Excavation and Lateral Support	NA	As Possible	60 days	Mon 26/7/27	Thu 26/9/24	0 days	211FS-25 days
213	Ground and Edge Beams	NA	As Possible	80 days	Mon 26/8/31	Wed 26/11/18	0 days	
214	Rebar Fixing	NA	As Possible	50 days	Mon 26/8/31	Mon 26/10/19	0 days	212FS-25 days

Revision.: 18.0

Date: 28 February 2025

Task

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Rolled Up Critical Task

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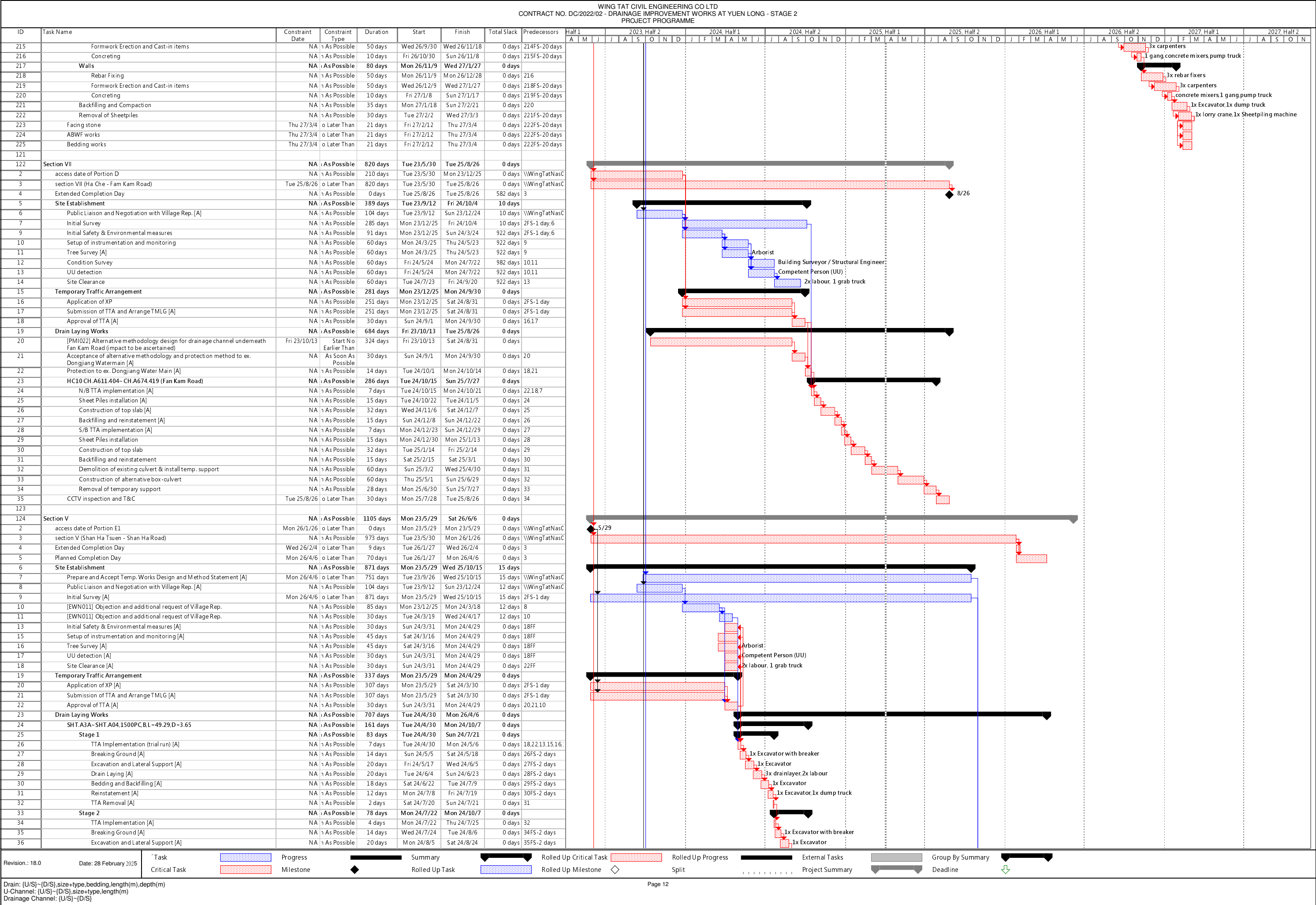
Deadline

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

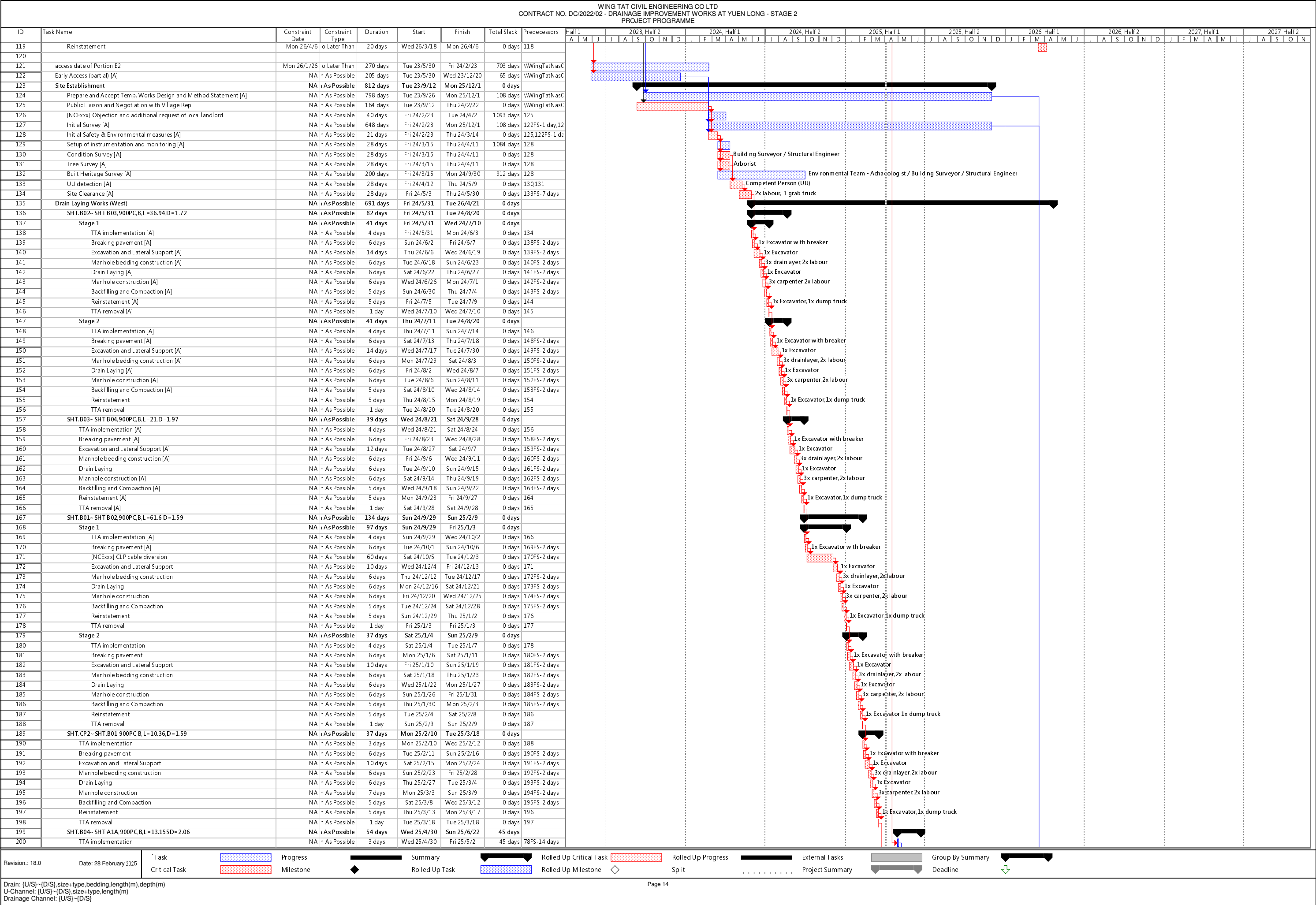
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Drainage Channel: {U/S}~{D/S}

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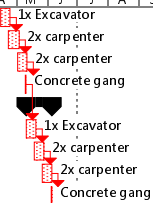


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WING TAT CIVIL ENGINEERING CO.LTD CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2 PROJECT PROGRAMME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
ID	Task Name	Constraint Date	Constraint Type	Duration	Start	Finish	Total Slack	Predecessors	Half 1	2023, Half 2					2024, Half 1					2024, Half 2					2025, Half 1					2025, Half 2					2026, Half 1					2026, Half 2					2027, Half 1					2027, Half 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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447	Excavation and Lateral Support	NA	As Possible	10 days	Wed 26/4/15	Fri 26/4/24	0 days	445																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



Rolled Up Progress

External Tasks

Project Summary

Group By Summary

Deadline

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

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

Drainage Channel: {U/S}~{D/S}

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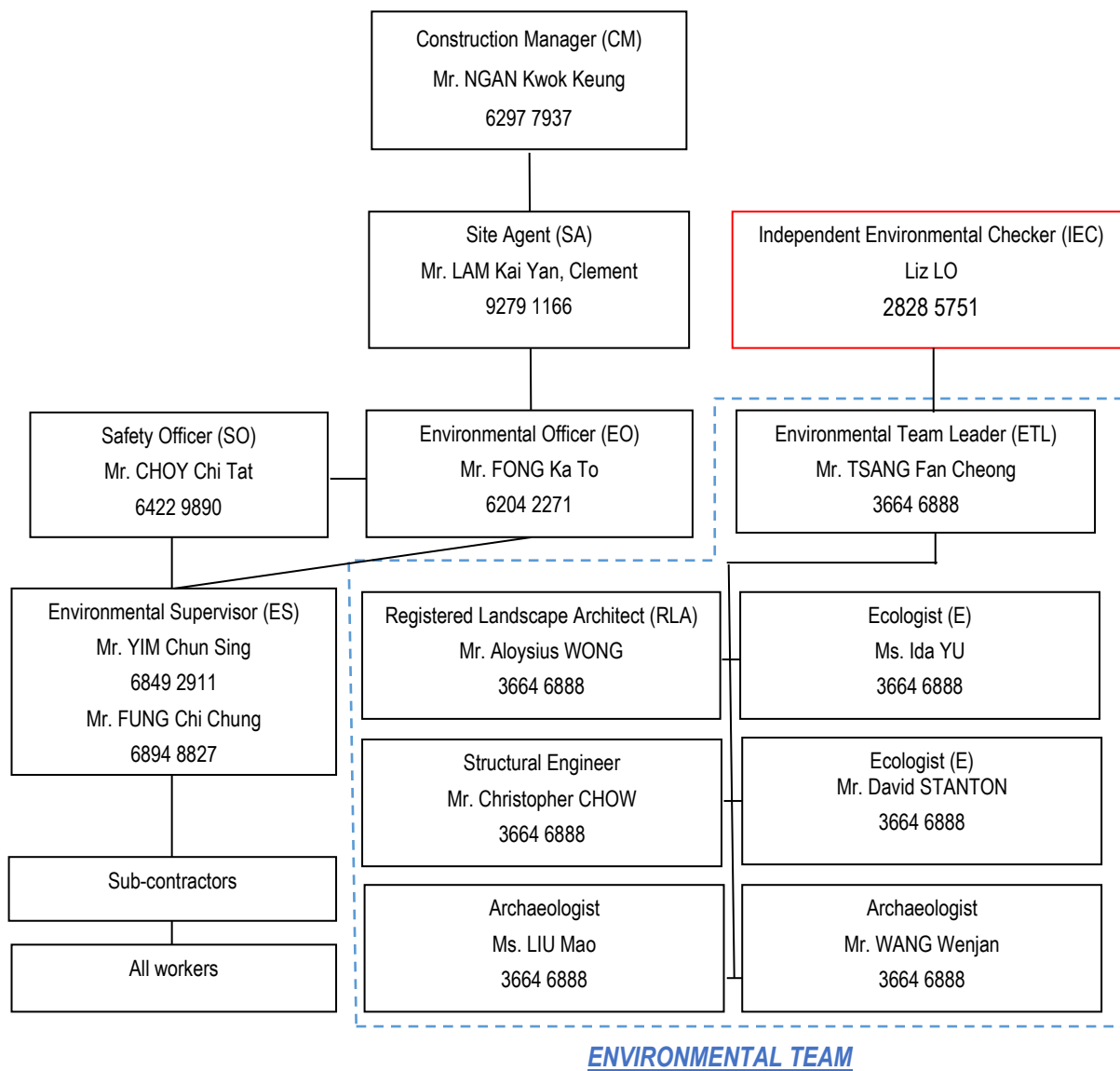
Appendix 1.2 Project Organization Chart

Wing Tat Civil Engineering Co. Ltd

Contract No. : DC/2022/02

Drainage Improvement Works at Yuen Long – Stage 2

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



Appendix 1.3 Implementation Status of Environmental Mitigation Measures

Air Quality Impact Implementation Schedule of Recommended Mitigation Measures

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.3.8.1	S.3.2.3	At locations with proposed open excavation and reinstatement works, hoarding of not less than 2.4 m from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. The contractor should ensure that the hoardings are well maintained throughout the entire construction period.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.3.8.1	S.3.2.3	Vehicle wheel washing facilities will be provided at exit of the works site. The areas where vehicle wheel washing activities are carried out and the section of the construction site between the vehicle washing facilities and the exit should be paved with concrete or bituminous materials.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.3.8.1	S.3.2.3	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.3.8.1	S.3.2.3	At construction works areas where demolition takes place, water or dust suppression chemicals should be sprayed prior to, during and immediately after the demolition activities to ensure that the top surface remains wet.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.3.8.1	S.3.2.3	The requirements stipulated in the Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness should be followed as far as practicable to enhance the cleanliness and tidiness of construction sites.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

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

Remarks:

1. "HC" equal to Ha Che
2. "LFT" equal to Lin Fa Tei
3. "SSNV" equal to Sung Shan New Village
4. "TW" equal to Tai Wo

Noise Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
Construction Phase									
S.4.6.6	S. 4.8.1	Use of quiet PME 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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	
S.4.6.7	S. 4.8.1	Use of quiet PME for generator, mobile crane and excavator, wheeled/ tracked.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	The mitigation measures of utilising material stockpiles and other structures as noise barriers, is not applicable to the construction 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	Starting date of Implementation	Remarks
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;	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
S.4.7.1	S. 4.8.1	- 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; - 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.	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

Drainage Improvement Works Near Four Villages in Yuen Long –
Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Monthly EM&A Report
Environmental Mitigation Implementation Schedule (EMIS)



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
S.4.7.2	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

Remarks:

1. "HC" equal to Ha Che
2. "LFT" equal to Lin Fa Tei
3. "SSNV" equal to Sung Shan New Village
4. "TW" equal to Tai Wo

Ecological Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
S.5.9.2	S.5.2.1	The section of watercourse with construction activities should be hydrologically isolated from the rest of the watercourse as far as practicable (except discharge of treated runoff).	Ecological – to avoid and minimize the spatial impact/ disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.5.9.2	S.5.2.1	The staged construction activities should be commenced from upstream and progresses toward the downstream area and the reinstatement work especially the planting of riparian vegetation should also be undertaken in stages and commenced as soon as the hardscape work completed in the working section	Ecological – to avoid and minimize the spatial impact and shorten the temporal disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.5.9.3	S.5.2.2	Good Site Practice - Effective implementation of an Environmental Management Systems in accordance with the ISO 14001 for all work sites; - Effective implementation of mitigation measures recommended for dust suppression, noise reduction, as well as water quality and waste management as detailed in other sections of the EIA Report.	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.3	S.5.2.2	- 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; - 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;	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.3	S.5.2.2	- 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.	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	TW: 16 Dec 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.6 to 5.9.7	S.5.2.7, 5.2.8	A detail survey to update the abundance and distribution of the endemic freshwater crabs within the project site (include the original watercourse which will be cut-off at Ha Che and Lin Fa Tei, inclusive of a receptor site search for the preparation of a “Freshwater Crab Translocation Plan”, in which the whole process including logistic arrangement should be detailed for the approval of AFCD.	Ecological – to avoid/minimize the direct impact to the local population of these two endemic freshwater crab species	Engineer	Lin Fa Tei and Ha Che, before the commencement of the construction work	EIA, contractual requirements	Implemented, EPD advised no comment on the FCTP on 9 Feb 2024. A formal reply letter was issued by the EPD on 4 July 2024 after the submission of hardcopy for their record.	HC: 20 Feb 2024 LFT: 20 Mar 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, pre-construction surveys at Ha Che and Lin Fa Tei were completed between 5 and 7 Feb 2024 and 11 and 13 Mar 2024 respectively	HC: 20 Feb 2024 LFT: 20 Mar 2024
S.5.9.6 to 5.9.8	S.5.2.9	Before the commencement of a construction work in a new section, the site should be inspected by the ecologist to confirm no inhabitation of the two freshwater crab species.	Ecological – to avoid/minimize the direct impact to the local population of these two endemic freshwater crab species	Contractor, ET	Lin Fa Tei and Ha Che, within one month before the commencement of the construction work	EIA, contractual requirements	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.5.9.9	S.5.2.4	The <i>Aquilaria sinensis</i> (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	SSNV: 16 Apr 2024
S.5.9.13-5.9.19	S.5.2.15	Restoration of wildlife habitat by ecological habitat and niche that could promote colonisation of aquatic wildlife during the reinstatement of embankment and channel bed	Ecological – to compensate for the loss of wildlife habitat especially the two endemic freshwater crab species	Contractor(s)	All sites during construction	EIA, contractual requirements	The restoration and planting works will be conducted after the completion of construction work at Ha Che, Lin Fa Tei and Sung Shan New Village	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

Remarks:

1. "HC" equal to Ha Che
2. "LFT" equal to Lin Fa Tei
3. "SSNV" equal to Sung Shan New Village
4. "TW" equal to Tai Wo

Water Quality Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
Construction Phase									
S.6.7.2	S.6.2.3	The mitigation measures should cover, but not limited to the following Best Management Practices: - Sand/ silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove sand/ silt particles from runoff to meet the requirements of the Technical Memorandum standards under the WPCO. The design of silt removal facilities should be based on the guidelines provided in ProPECC PN 2/23. All drainage facilities and erosion and sediment control structures should be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. - Work programmes should be designed to minimize the size of work areas to minimize the soil exposure soil and reduce the potential for increased siltation and runoff; - Silt removal facilities, channels and manholes should be	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	Deficiency of Mitigation Measures but rectified by the Contractor.	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	WPCO licenses for HC, LFT, SSNV and TW were granted on 26 Apr 2024, 24 May 2024, 10 July 2024 and 29 July 2024 respectively.

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

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
S.6.7.4	S6.2.3	The guidelines stipulated in the ProPECC PN 2/23 “Construction Site Drainage” issued by the EPD should be followed to minimise the potential water quality impacts. Good housekeeping and stormwater best management practices, as detailed below, should be implemented to ensure that all construction runoff are well controlled to minimise the water quality impacts that arise due to the construction works of the Project. - Flood protection such as dikes or embankments should be provided around the boundaries of earthwork areas. Temporary ditches should be provided as appropriate to facilitate the runoff discharge into drainage system, through a silt/ sediment trap. The silt/ sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates; - Construction works should be programmed to avoid surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	- WPCO licenses for HC, LFT, SSNV and TW were granted on 26 Apr 2024, 24 May 2024, 10 July 2024 and 29 July 2024 respectively. - The provision of oil interceptors in the drainage system downstream is not applicable as there is no oil/ fuel pollution spotted at the construction sites. - Fuel tanks and storage areas are not placed

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

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		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	Starting date of Implementation	Remarks
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	
S.6.7.6	S.6.2.3	Contractor shall apply for a discharge license under WPCO.	To control the effluent discharge during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented.	HC: 26 Apr 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	
S.6.7.7 & S.6.7.8	S.6.2.3	Sewage from Workforce - Portable chemical toilets and/or sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater to 0.15 m³/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	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		construction phase of the project. 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.							
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	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		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; - To further minimize the leakage and loss of sediments during excavation, tightly sealed closed							

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		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.							
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;	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation	Remarks
		- 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.							
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024	
S.6.7.18	S.6.2.3	Mitigation measures to avoid potential impact to Cheung Po EIS The construction work in Tai Wo should be scheduled in the dry season and sand bags or other similar facilities should be	Water quality control during construction	Contractor(s)	At Tai Wo Area during the entire construction period	WPCO	Implemented	TW: 16 Dec 2024	

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		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.							

Remarks:

1. "HC" equal to Ha Che
2. "LFT" equal to Lin Fa Tei
3. "SSNV" equal to Sung Shan New Village
4. "TW" equal to Tai Wo

Waste Management Implication – Implementation Schedule of Recommended Mitigation Measures

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.7.5.1	S.7.2.5	All waste materials should be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they should be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	Under the Waste Disposal (Chemical Waste) (General) Regulation, the Project contractor shall register as a Chemical Waste Producer (CWP) if chemical wastes such as spent lubricants, paints, etc. are generated onsite. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated onsite. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by the EPD;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal (Chemical Waste) (General) Regulation	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.7.5.1	S.7.2.5	A sufficient number of covered bins should be provided onsite for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins should be cleared daily and the collected waste disposed of to the nearest refuse transfer station. Further to the issue of DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the contractor is required to maintain a clean and hygienic site throughout the Project works;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance and DEVB TC(W) No. 8/2010	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

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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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.7.5.1	S.7.2.5	All chemical toilets, if any, should be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S.7.5.1	S.7.2.5	Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; and	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	ETWB TCW No. 19/2005	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S.7.5.1	S.7.2.5	- 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	Deficiency of Mitigation Measures but rectified by the Contractor.	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

Remarks:

1. "HC" equal to Ha Che
2. "LFT" equal to Lin Fa Tei
3. "SSNV" equal to Sung Shan New Village
4. "TW" equal to Tai Wo

Land Contamination – Implementation Schedule of Recommended Mitigation Measures

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

Landscape & Visual Impact – Implementation Schedule of Recommended Mitigation Measures

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

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
S9.12.1.1	S.9.2	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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S9.12.1.1	S.9.2	CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
S9.12.1.1	S.9.2	CM07 – Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

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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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024
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	HC: 20 Feb 2024 LFT: 20 Mar 2024 SSNV: 16 Apr 2024 TW: 16 Dec 2024

- Remarks:
1. "HC" equal to Ha Che
 2. "LFT" equal to Lin Fa Tei
 3. "SSNV" equal to Sung Shan New Village
 4. "TW" equal to Tai Wo

Cultural Heritage Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Construction Phase								
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;	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 Dec 2023. Antiquities and Monuments Office (AMO) had no adverse comment on the report on 3 Jan 2024. A formal reply letter was issued by the EPD on 21 Jun 2024 for their acceptance on the report.	N/A

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status	Starting date of Implementation
Table 10-3	Table 10.1	- 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; - 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.	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 Dec 2023. Antiquities and Monuments Office (AMO) had no adverse comment on the report on 3 Jan 2024. A formal reply letter was issued by the EPD on 21 Jun 2024 for their acceptance on the report.	N/A

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Table 10-3	Table 10.1	Lan Fong Study Hall (GB-02) • No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A	N/A
Table 10-3	Table 10.1	St. John's Chapel (GB-03) • No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A	N/A
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	The Archaeological Survey at Lin Fa Tei was carried out from 16 to 28 Oct 2024.	16 Oct 2024
Table 10-1	S.10.2.3	As a precautionary measure, the Antiquities and Monuments Office (AMO) should be informed immediately in case of discovery of antiquities or supposed antiquities in the course of excavation for the proposed drainage improvement works at Tai Wo area, Ha Che River area, Lin Fa Tei area (all areas except area identified for Archaeological Survey) and Sung Shan New village area, so that appropriate mitigation measures, if needed, can be timely formulated and implemented in agreement with AMO.	To ensure appropriate mitigation measures can be timely formulated and implemented to preserve archaeological data, if discovered, in agreement with AMO	Contractor	During construction phase	Antiquities and Monuments Ordinance	No antiquities or supposed antiquities was discovered during the reporting period	N/A

- Remarks:
1. "HC" equal to Ha Che
 2. "LFT" equal to Lin Fa Tei
 3. "SSNV" equal to Sung Shan New Village
 4. "TW" equal to Tai Wo

Appendix 2.1 Event and Action Plans for Water Quality

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. Assess 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.

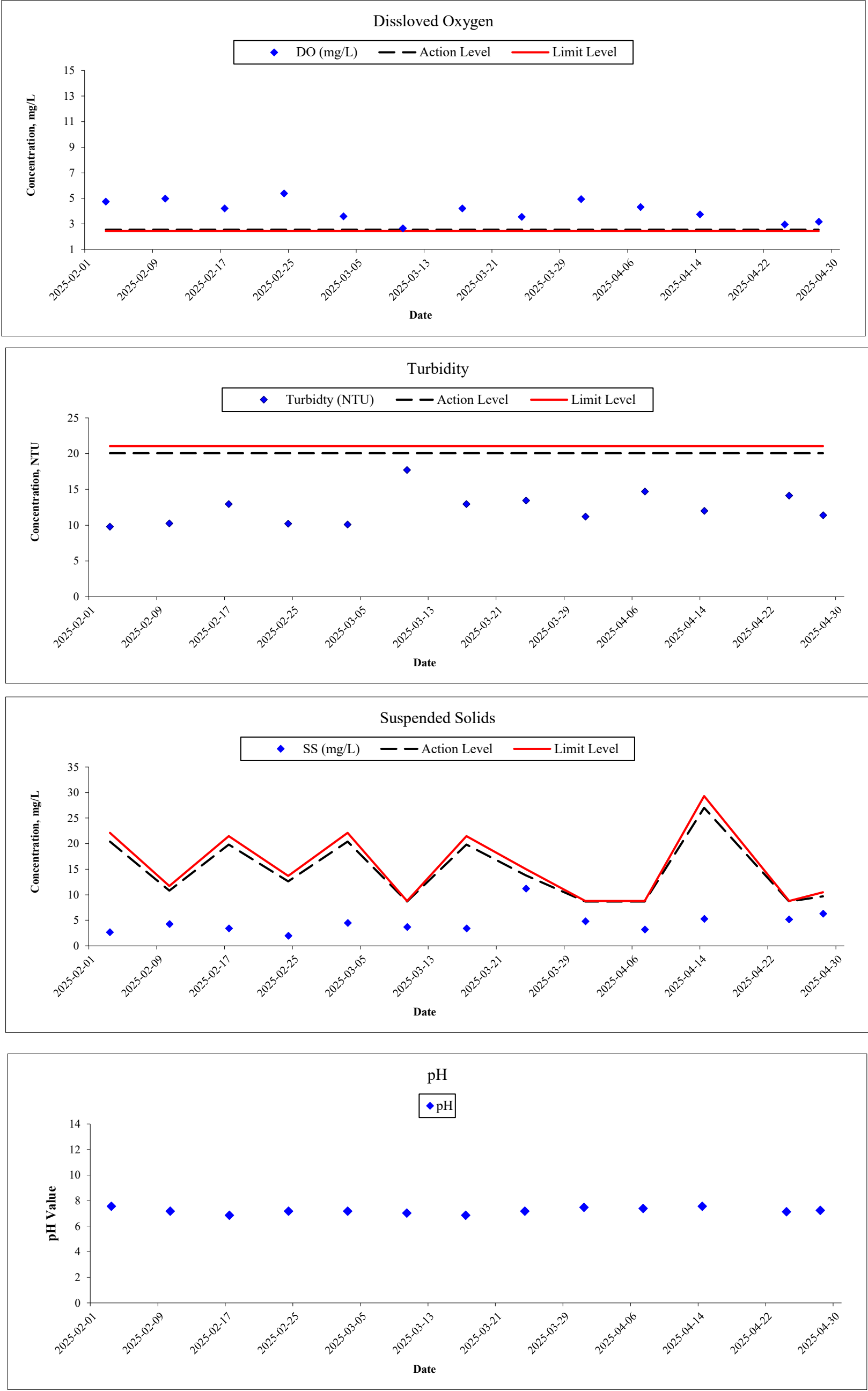
Event	Action			
	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
Limit Level being exceeded by more than one consecutive sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact. 3. Inform the IEC, the Contractor and the DEP; 4. Check monitoring data, all plant, equipment and 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. Assess 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 2.2 Graphical Presentation of Water Quality Monitoring

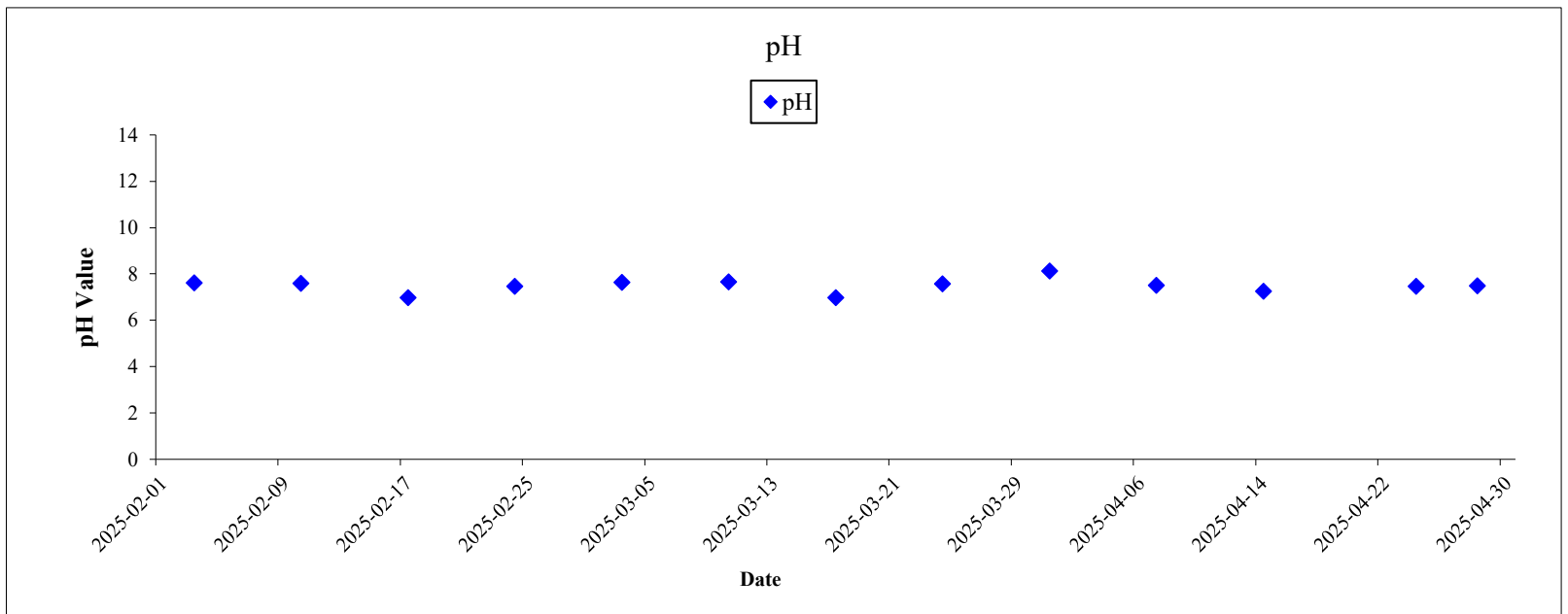
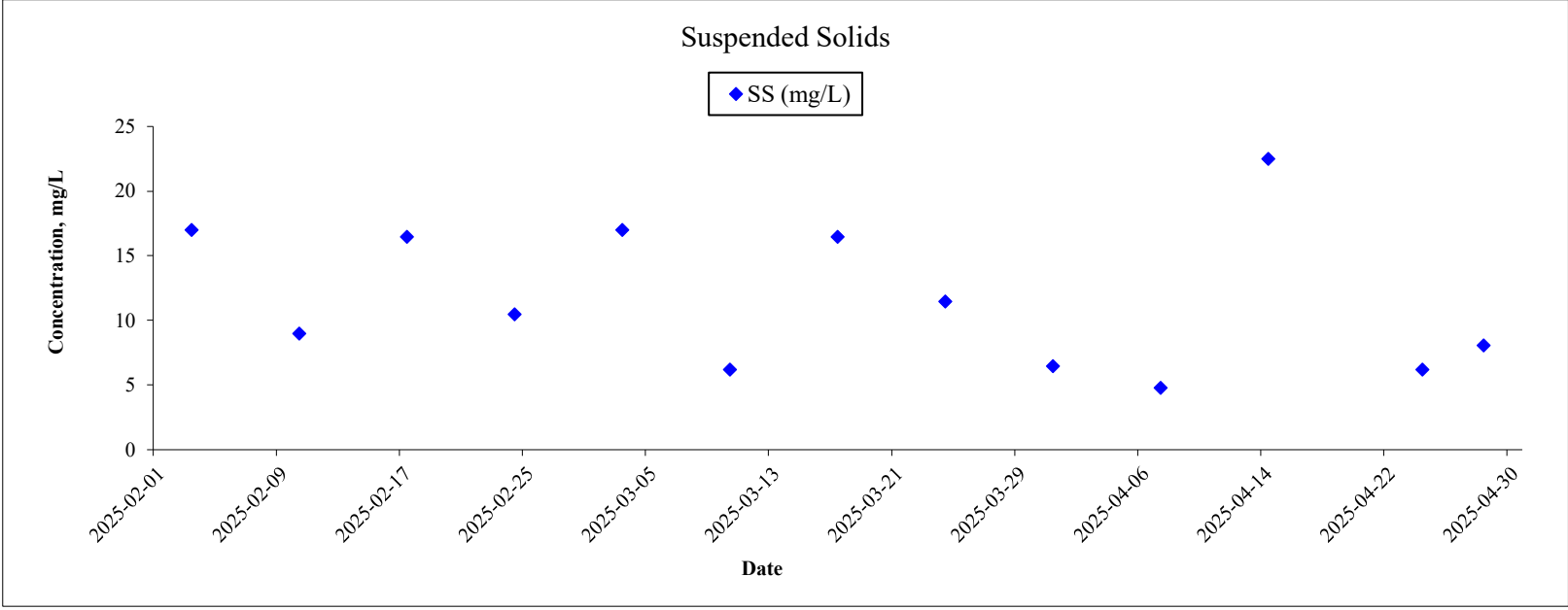
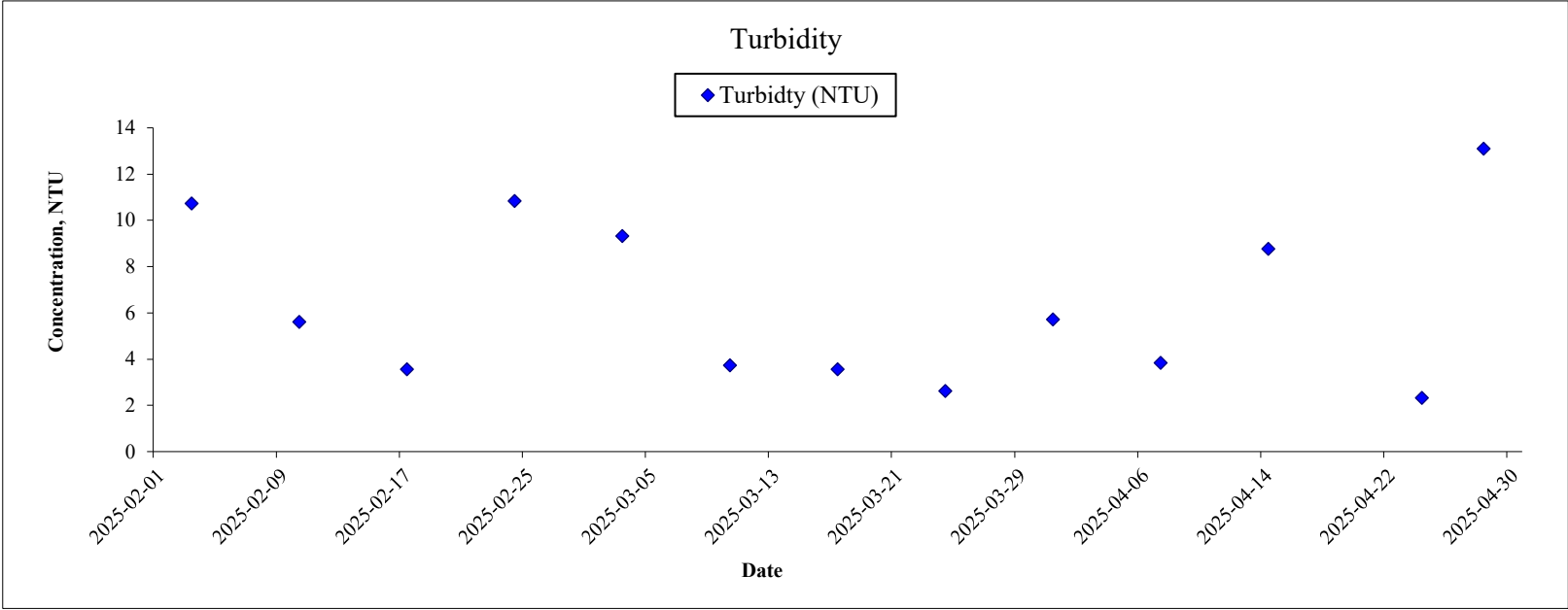
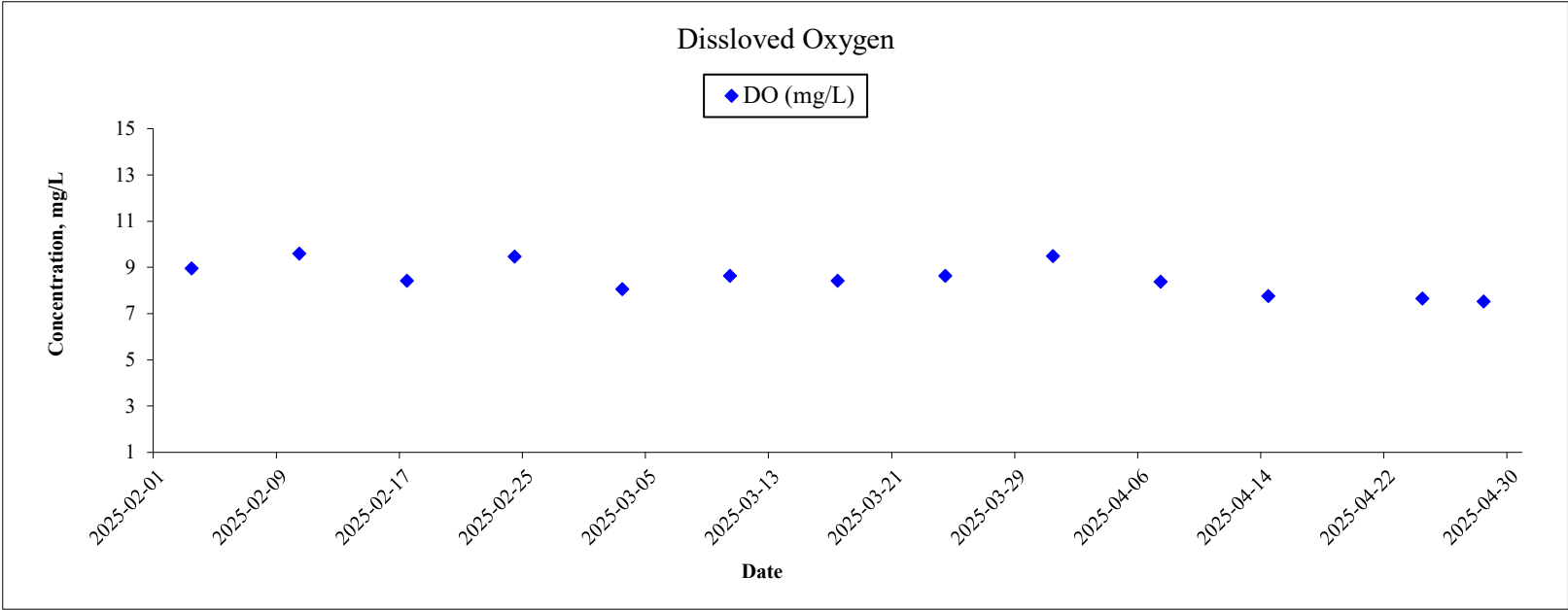


Monitoring Location: C10





Monitoring Location: C9



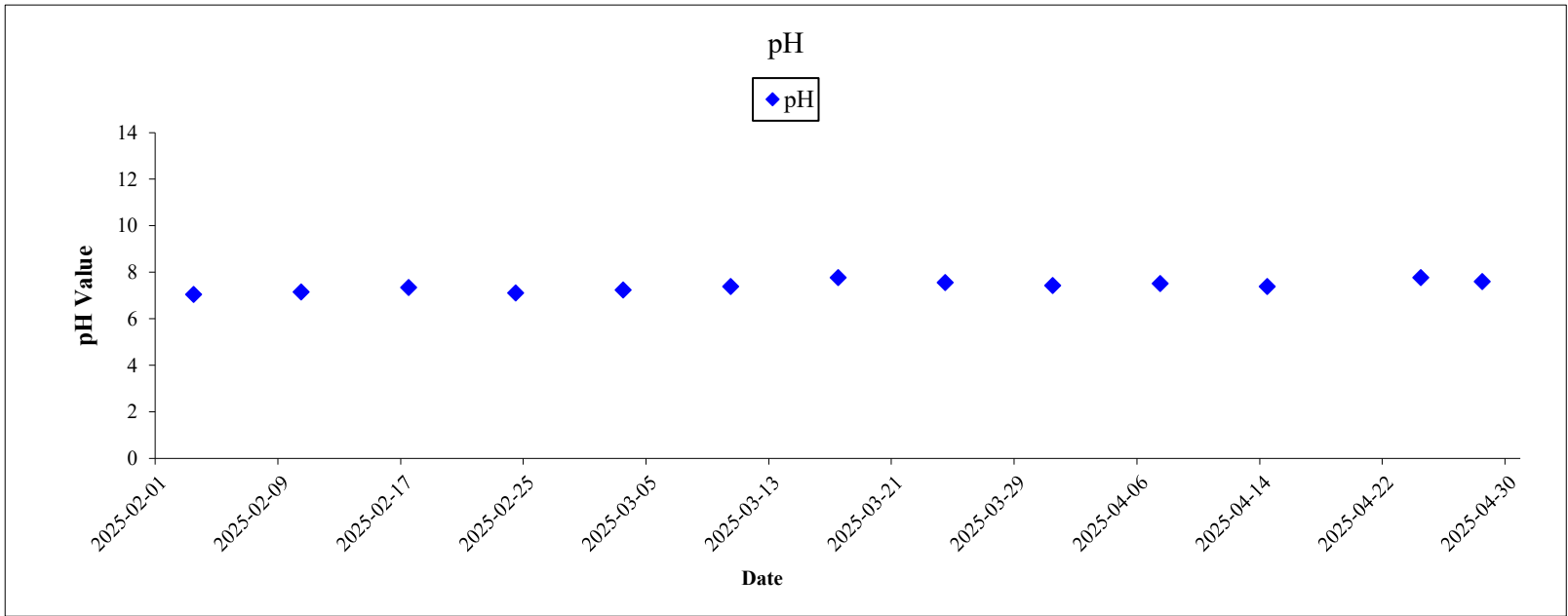
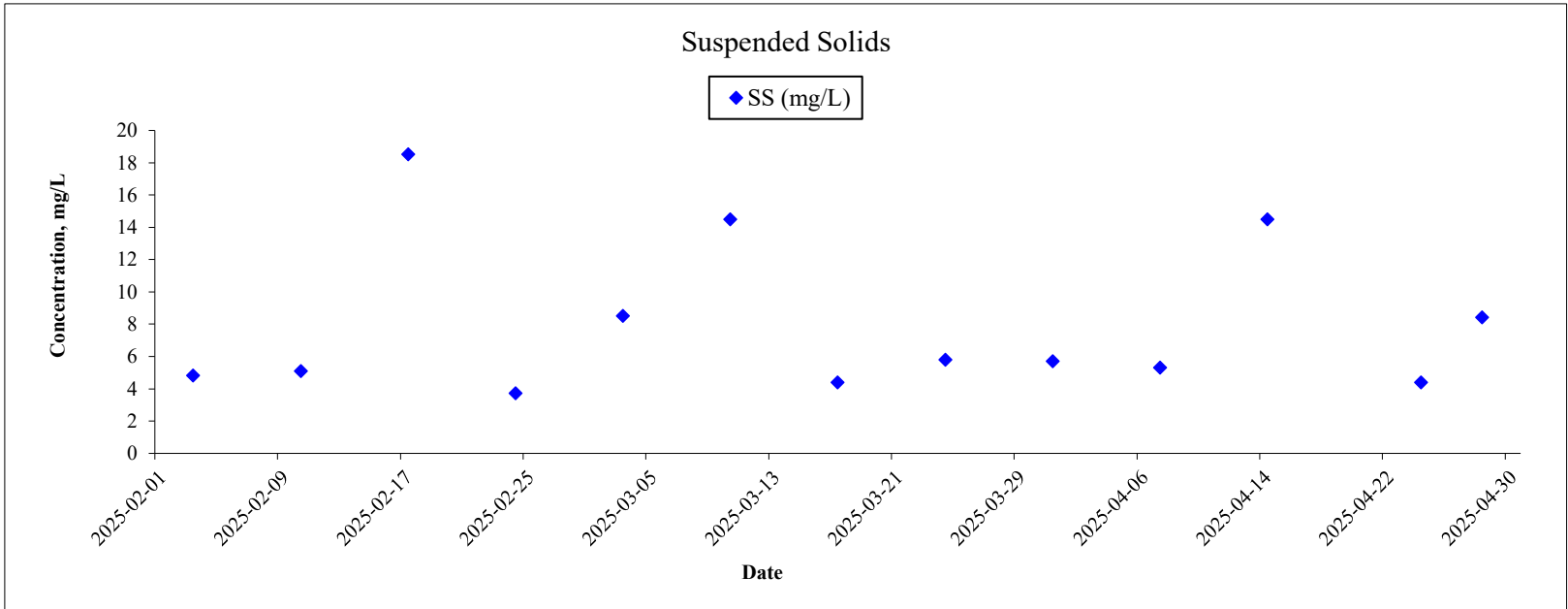
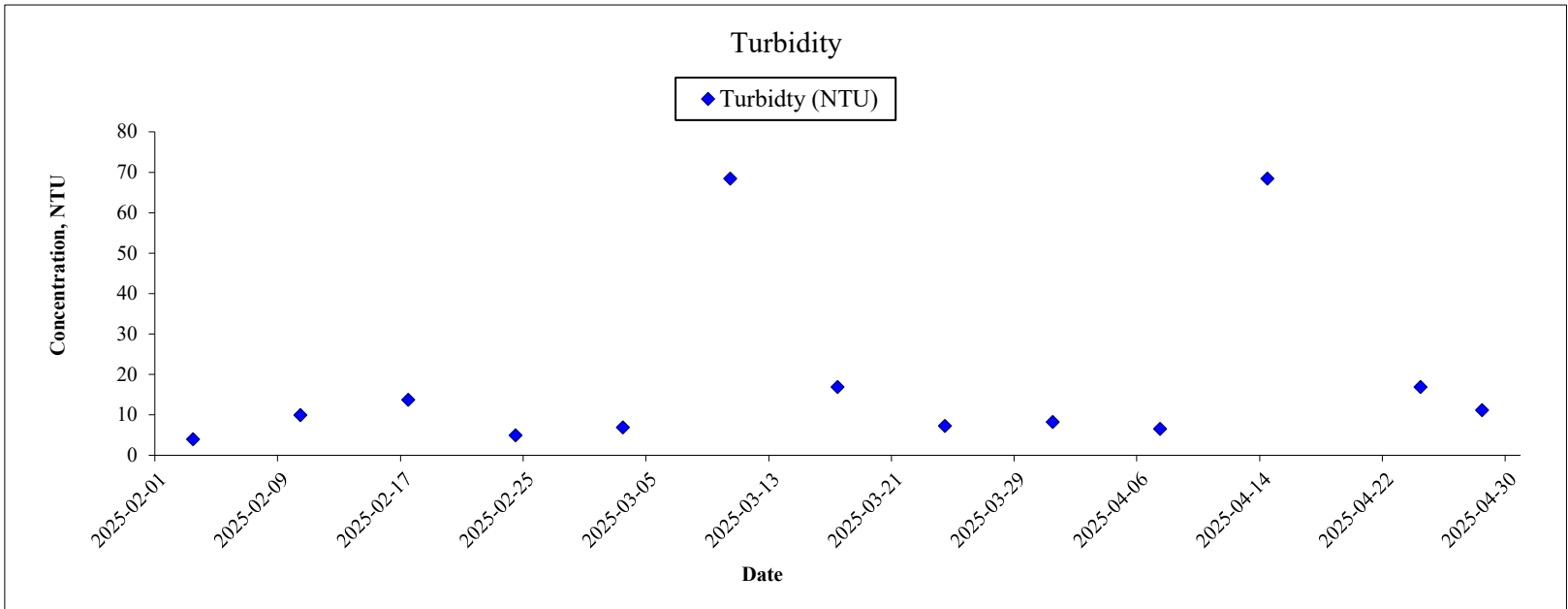
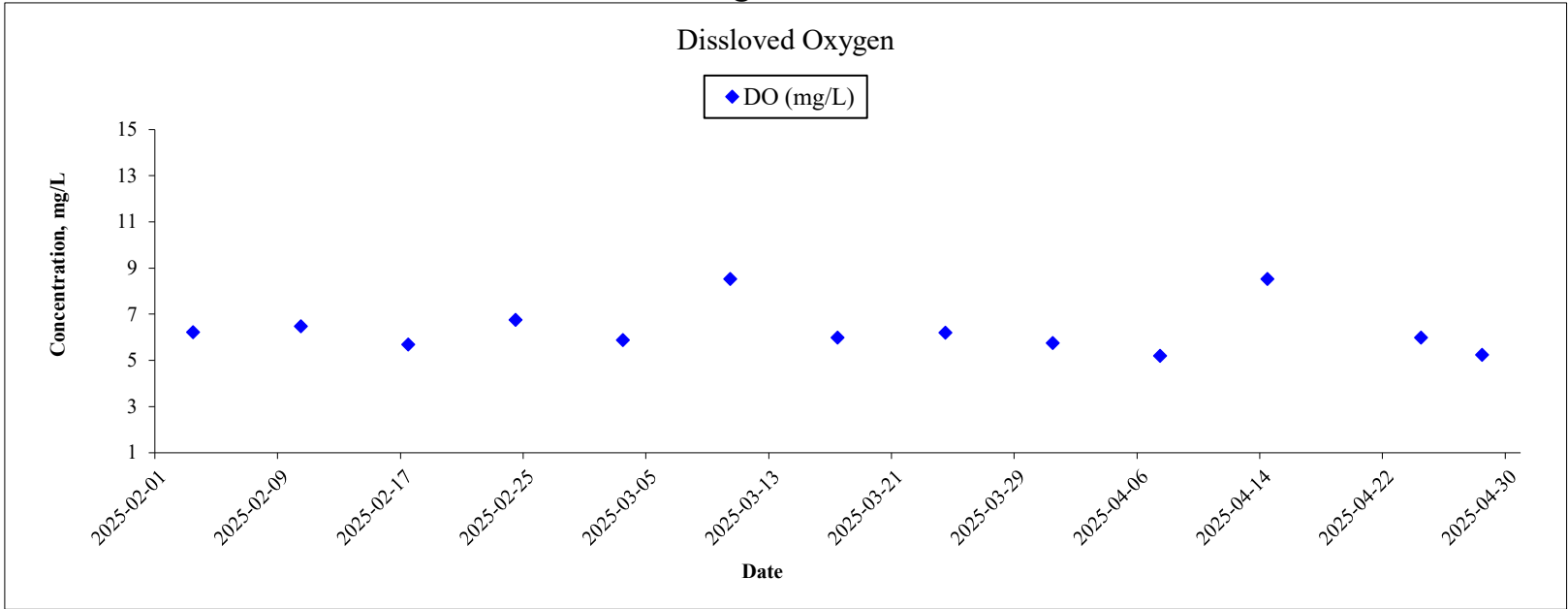


Monitoring Location: C8



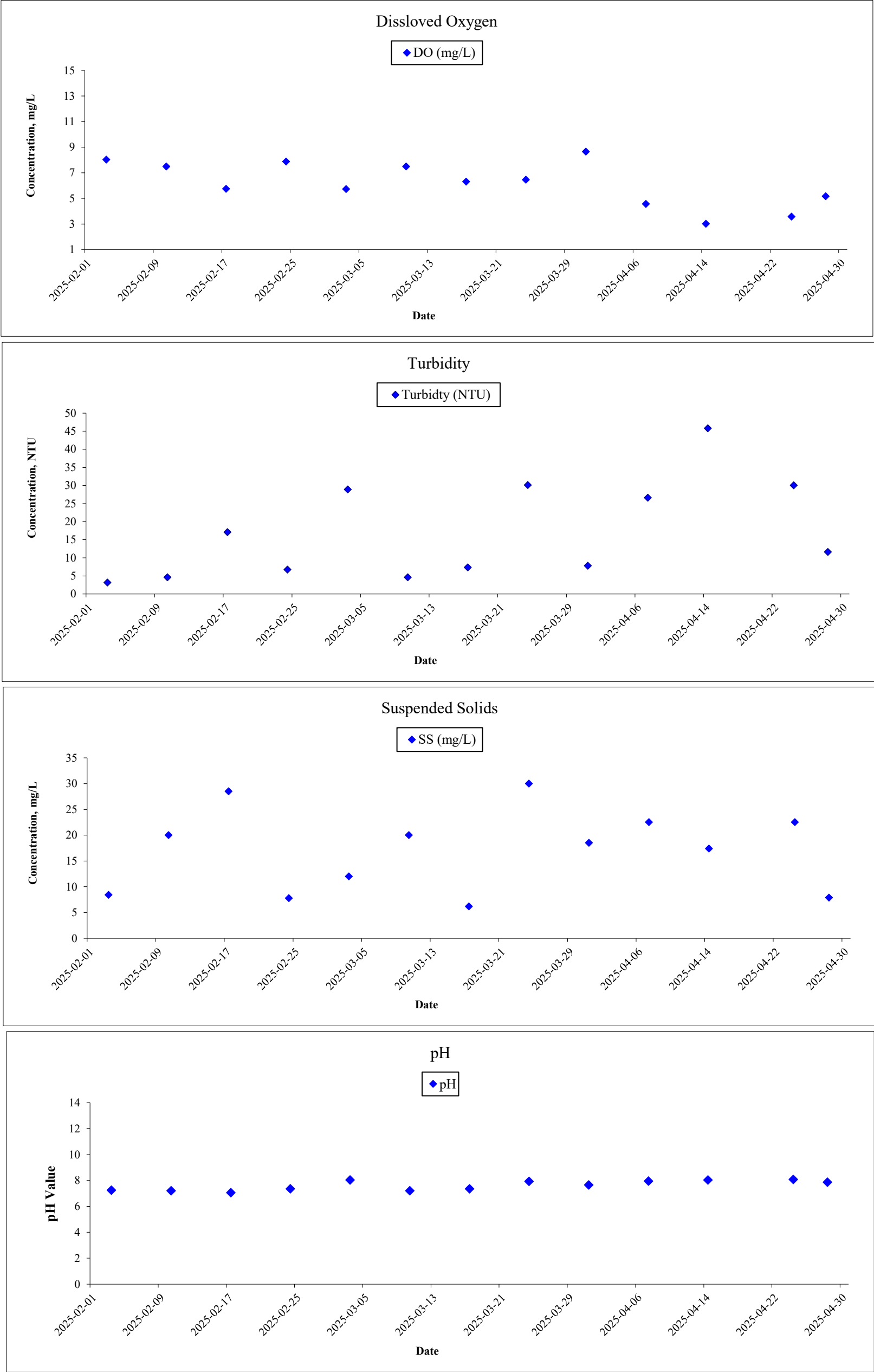


Monitoring Location: C7A



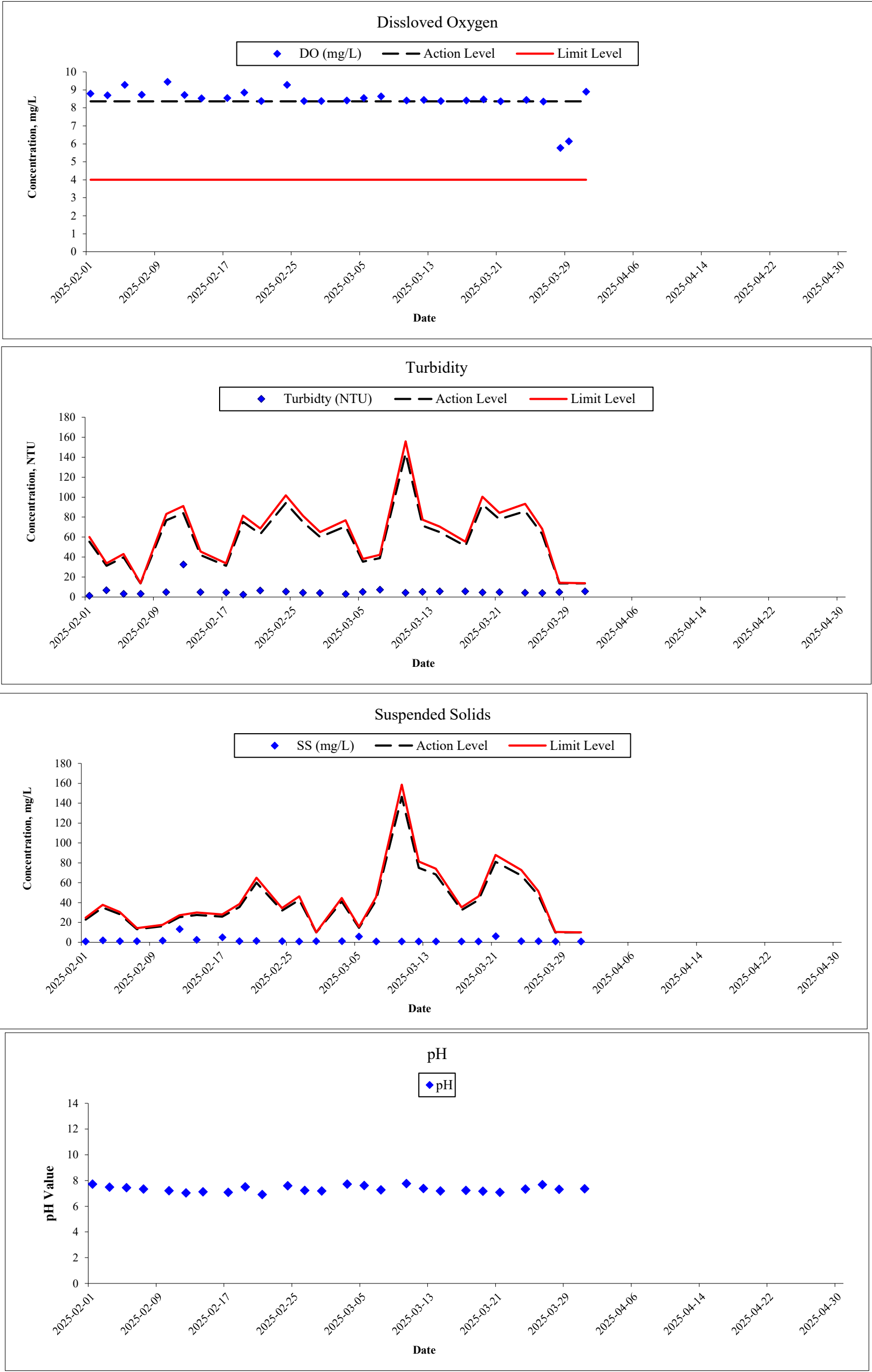


Monitoring Location: C6





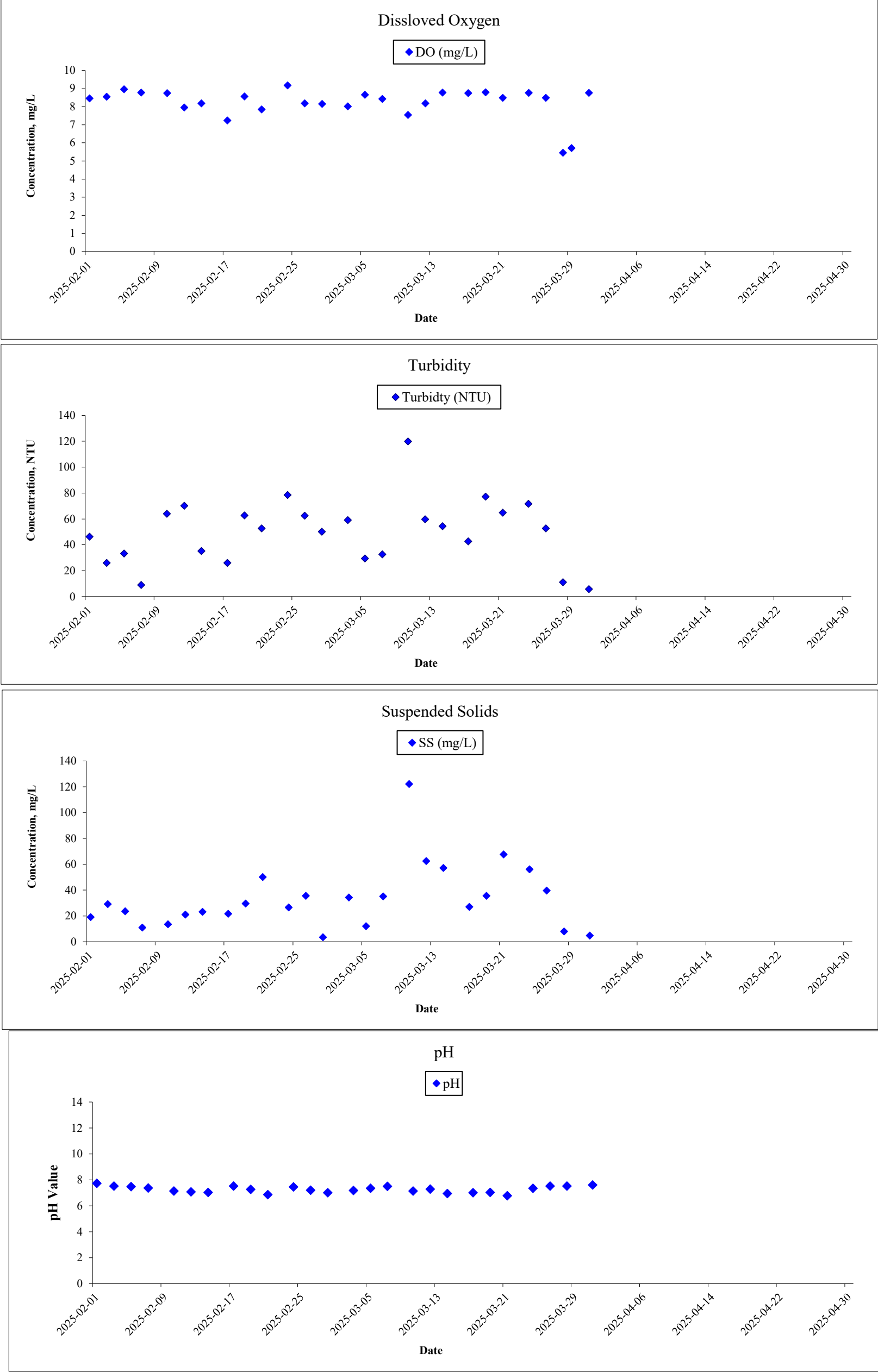
Monitoring Location: C5



*Due to no construction activities conducted at Tai Wo from 1 April 2025 to 30 April 2025, no impact water quality monitoring at Tai Wo was carried out during the above period.



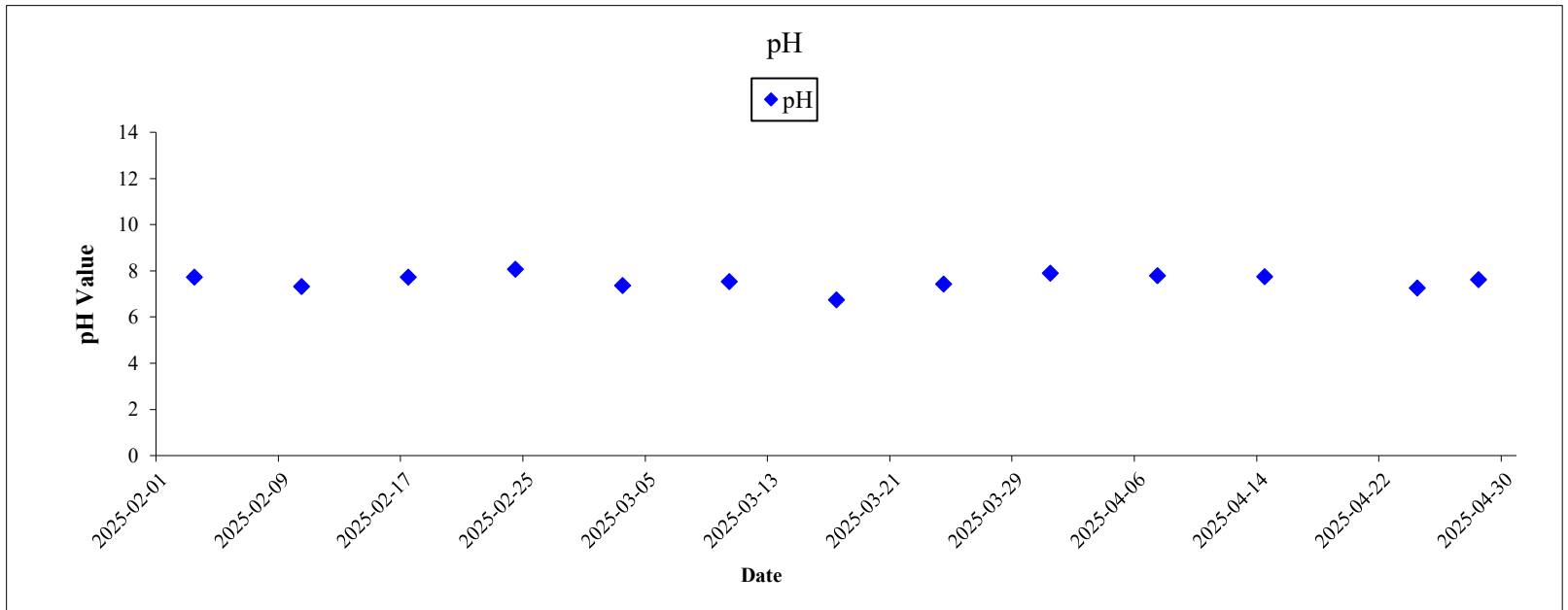
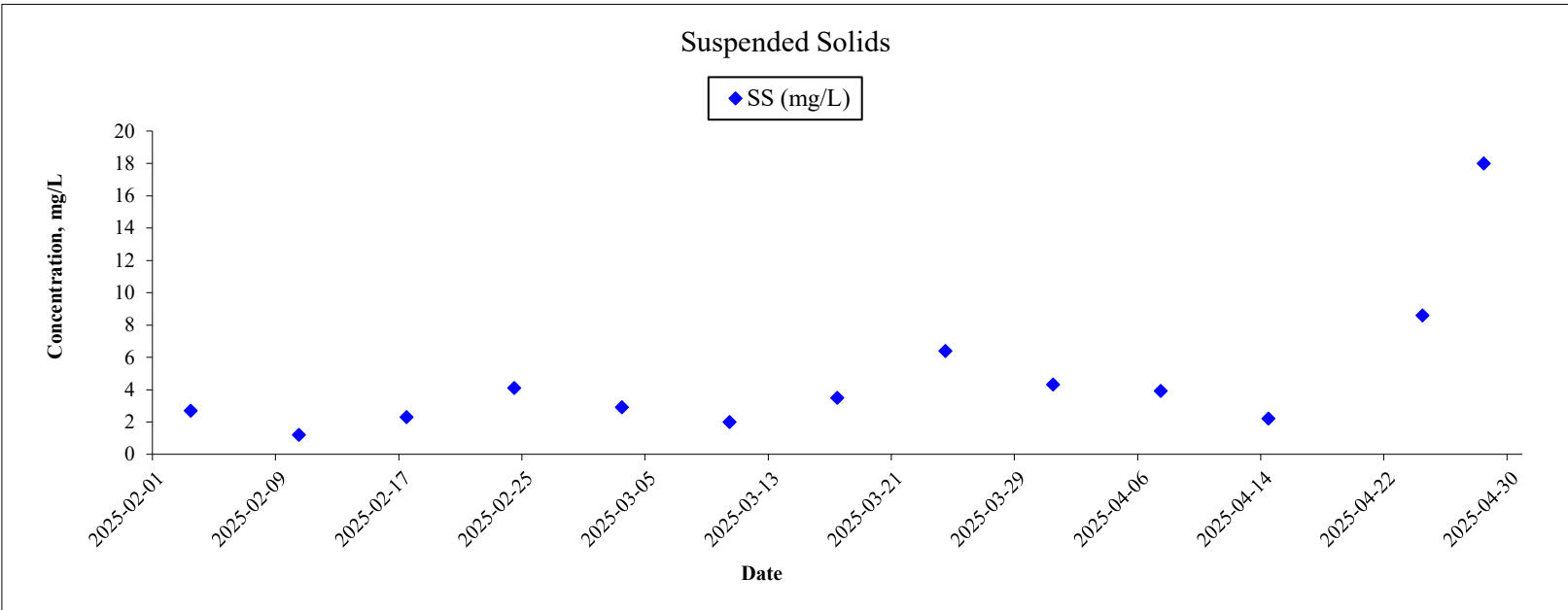
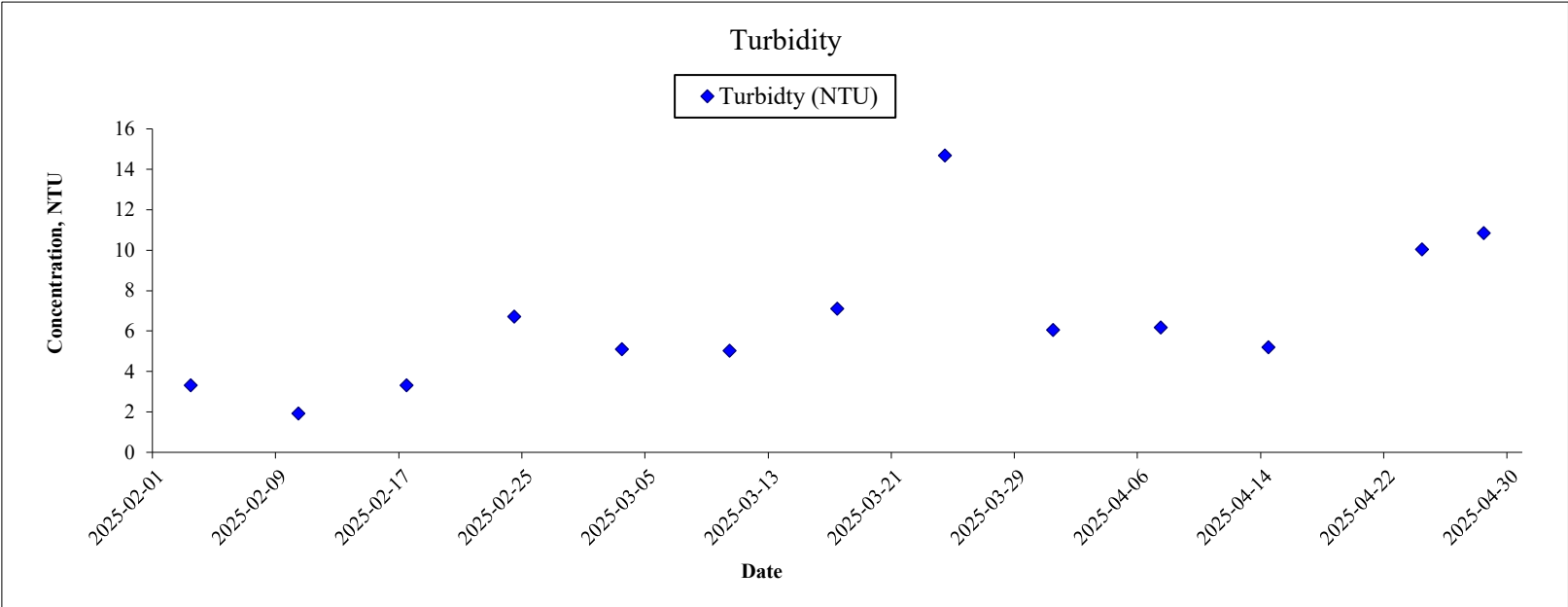
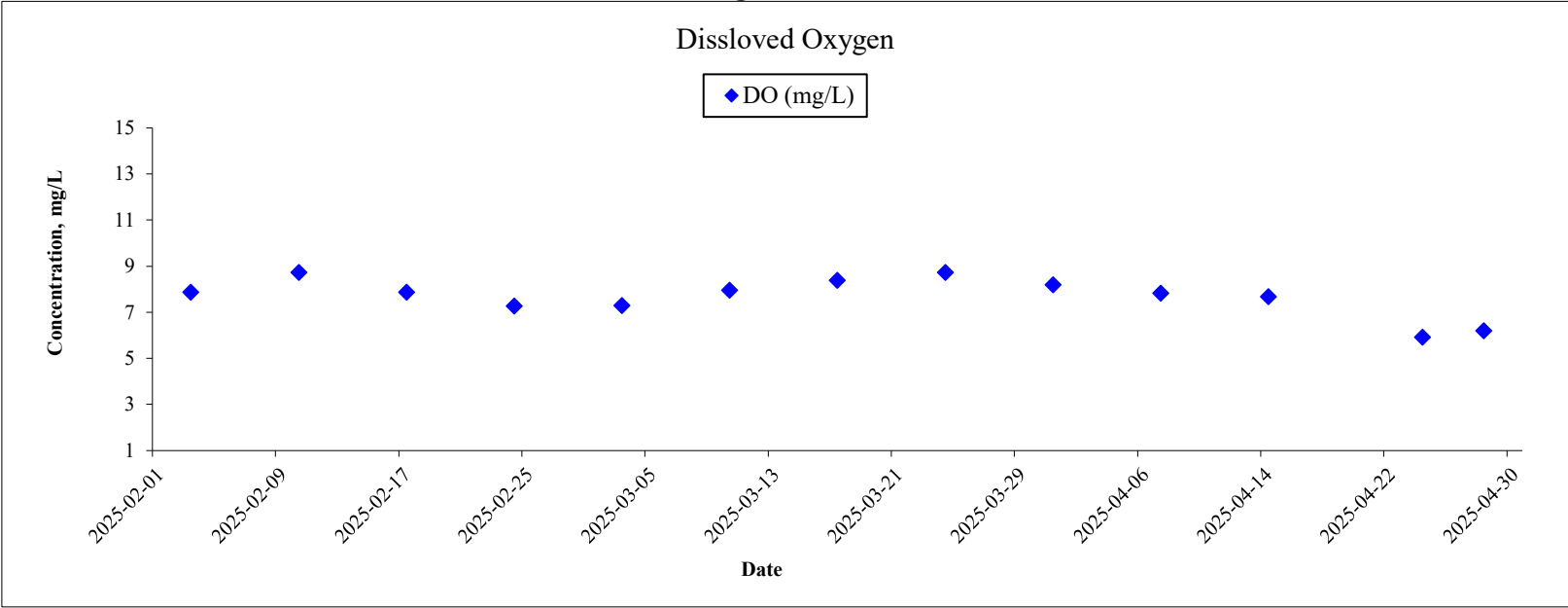
Monitoring Location: C4



*Due to no construction activities conducted at Tai Wo from 1 April 2025 to 30 April 2025, no impact water quality monitoring at Tai Wo was carried out during the above period.

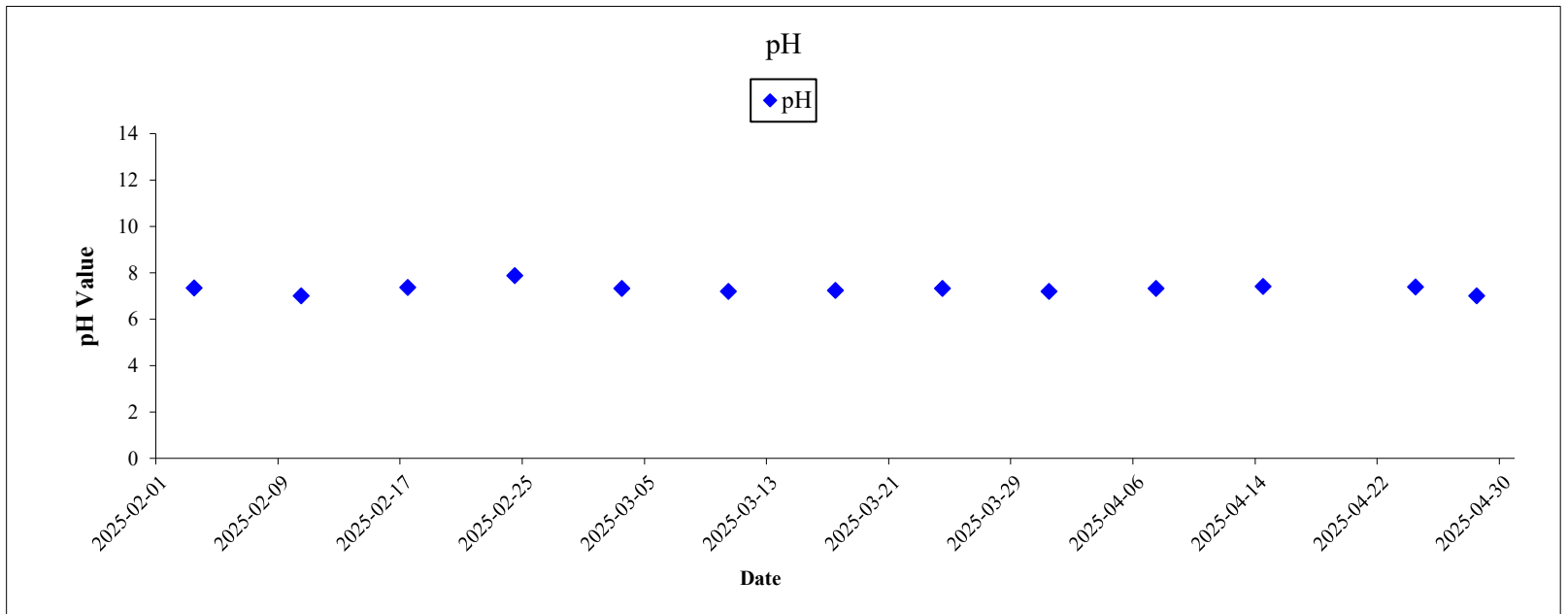
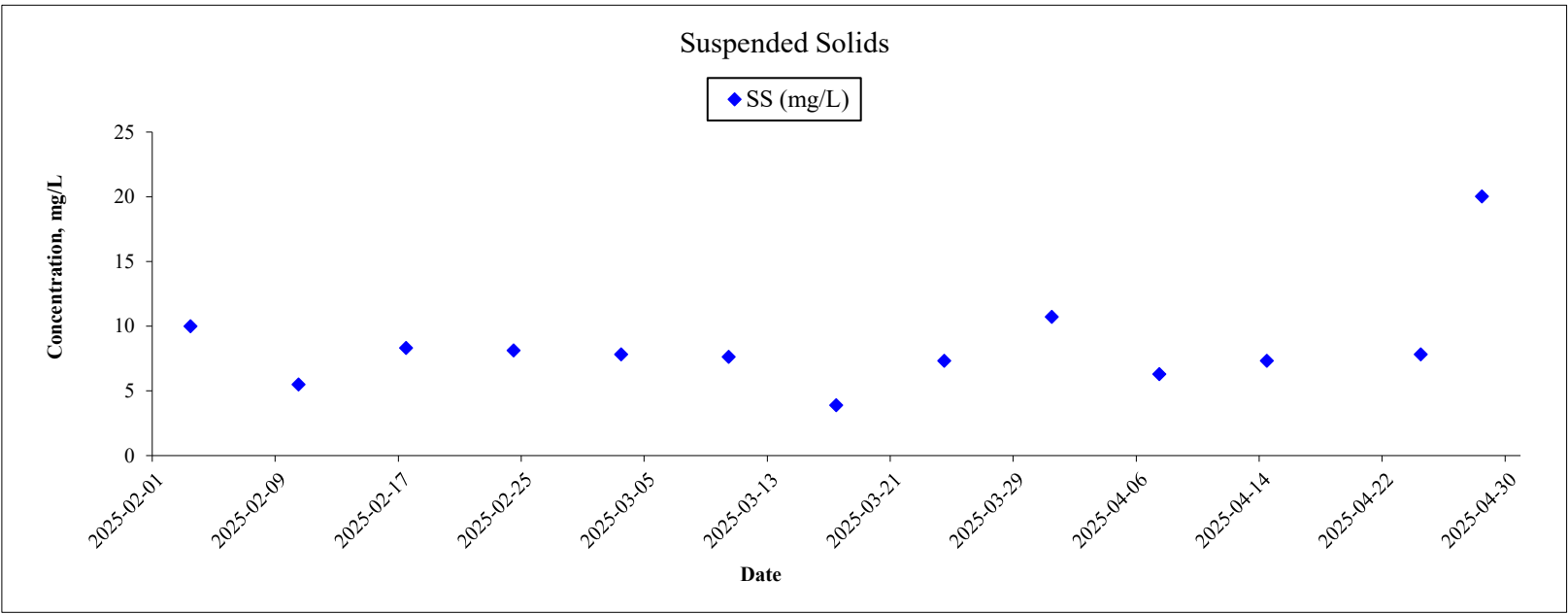
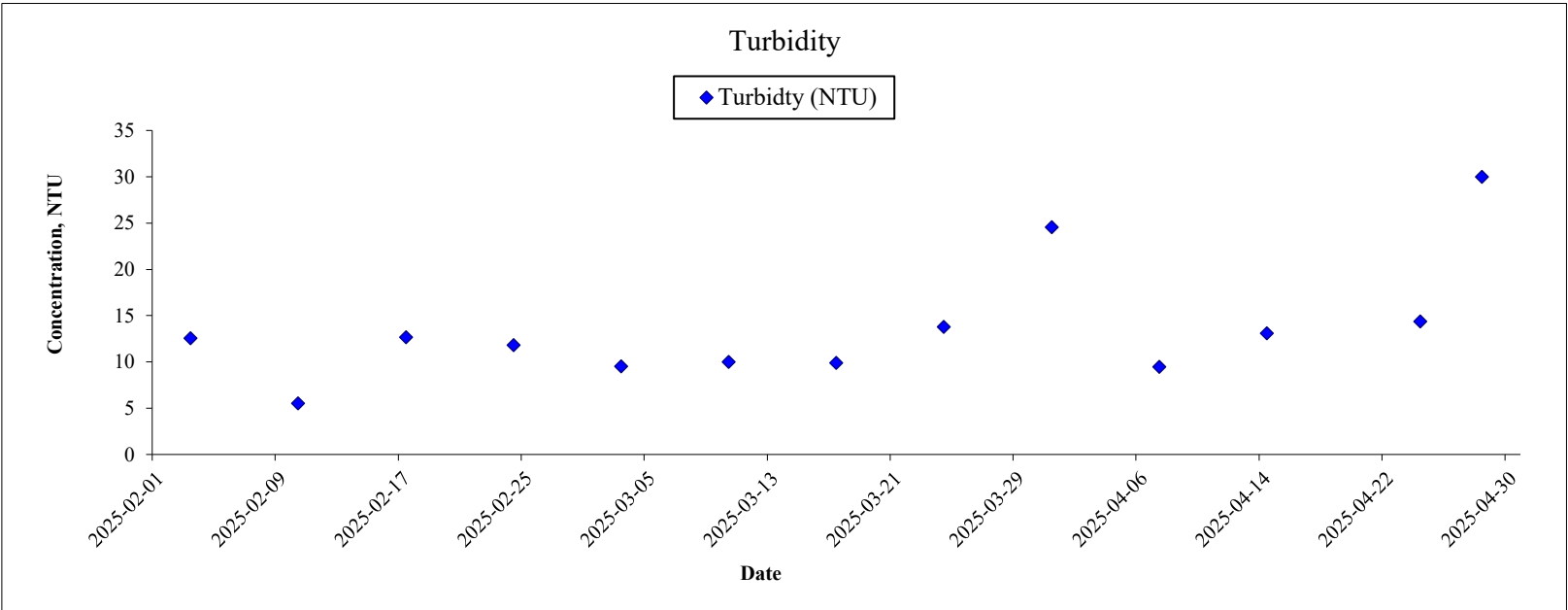
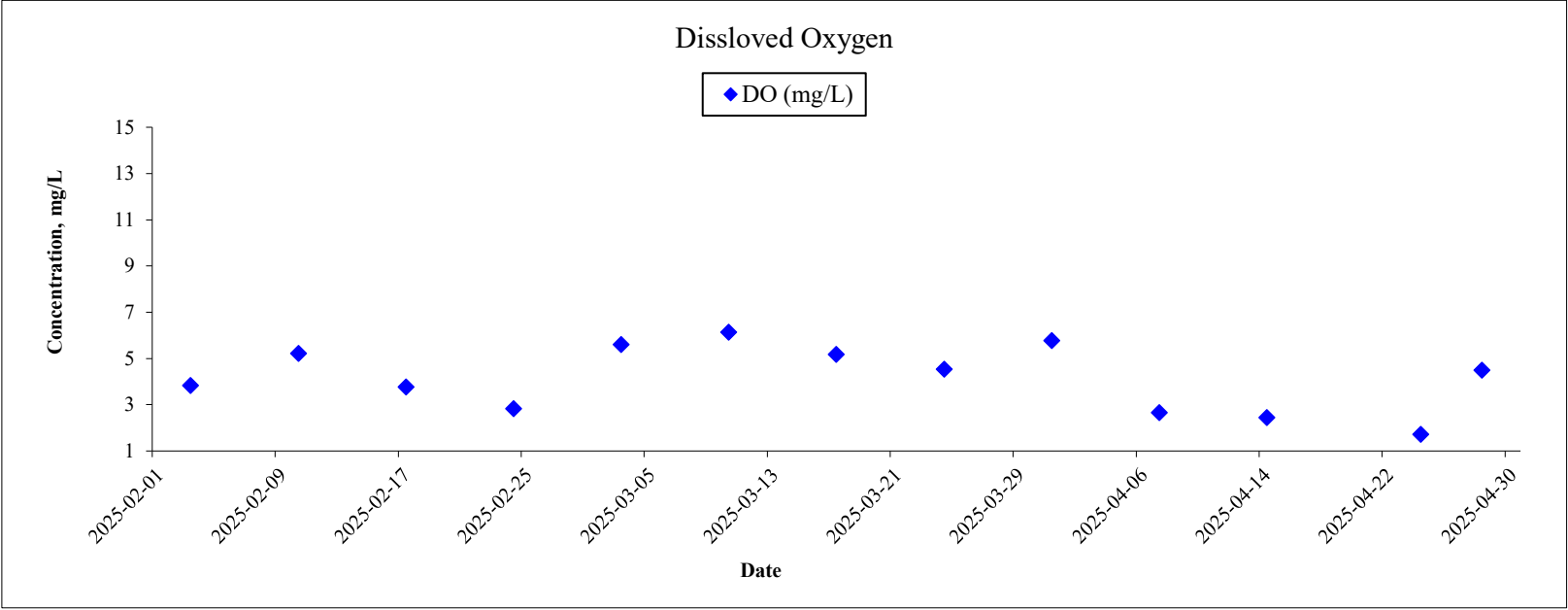


Monitoring Location: C3A



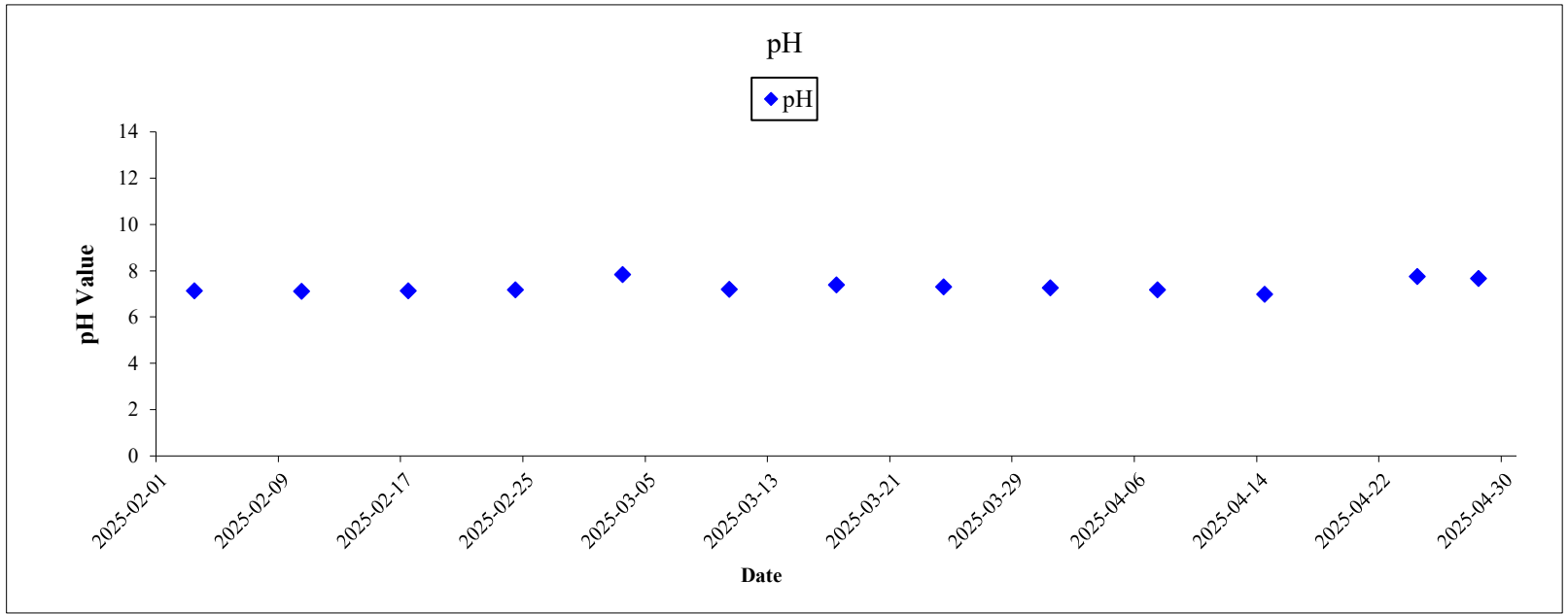
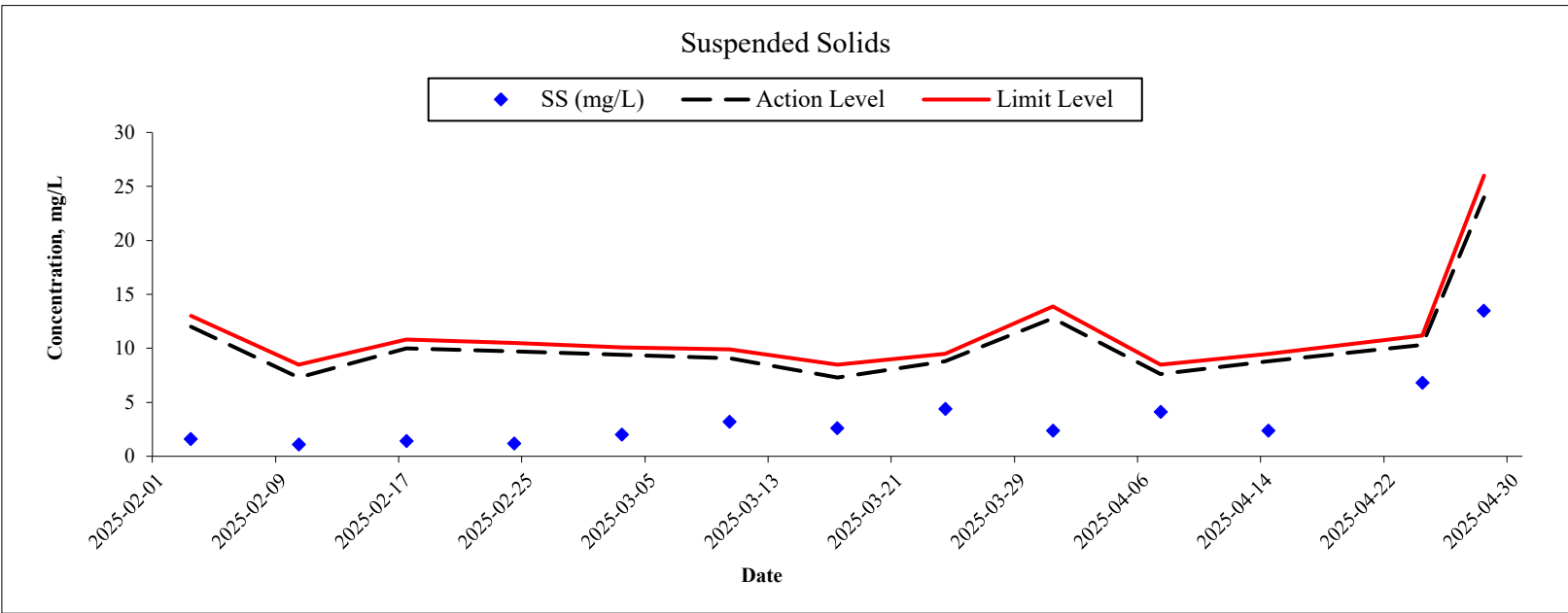
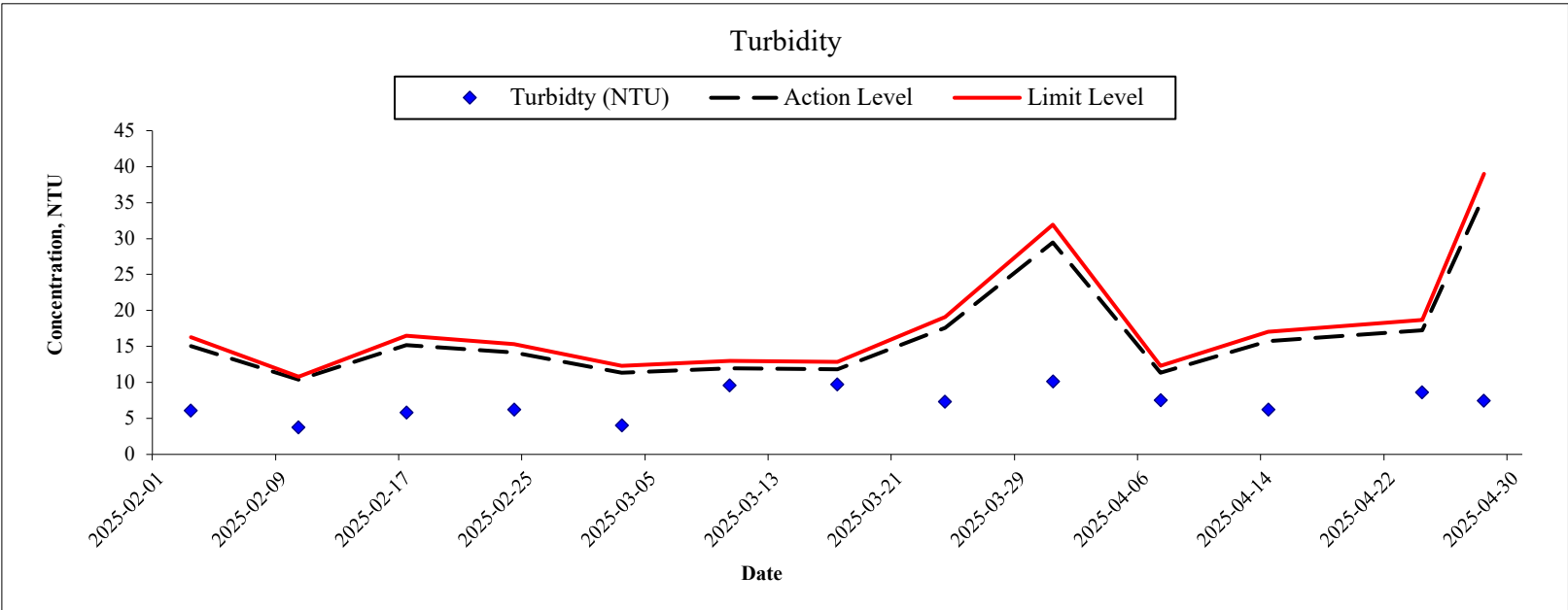
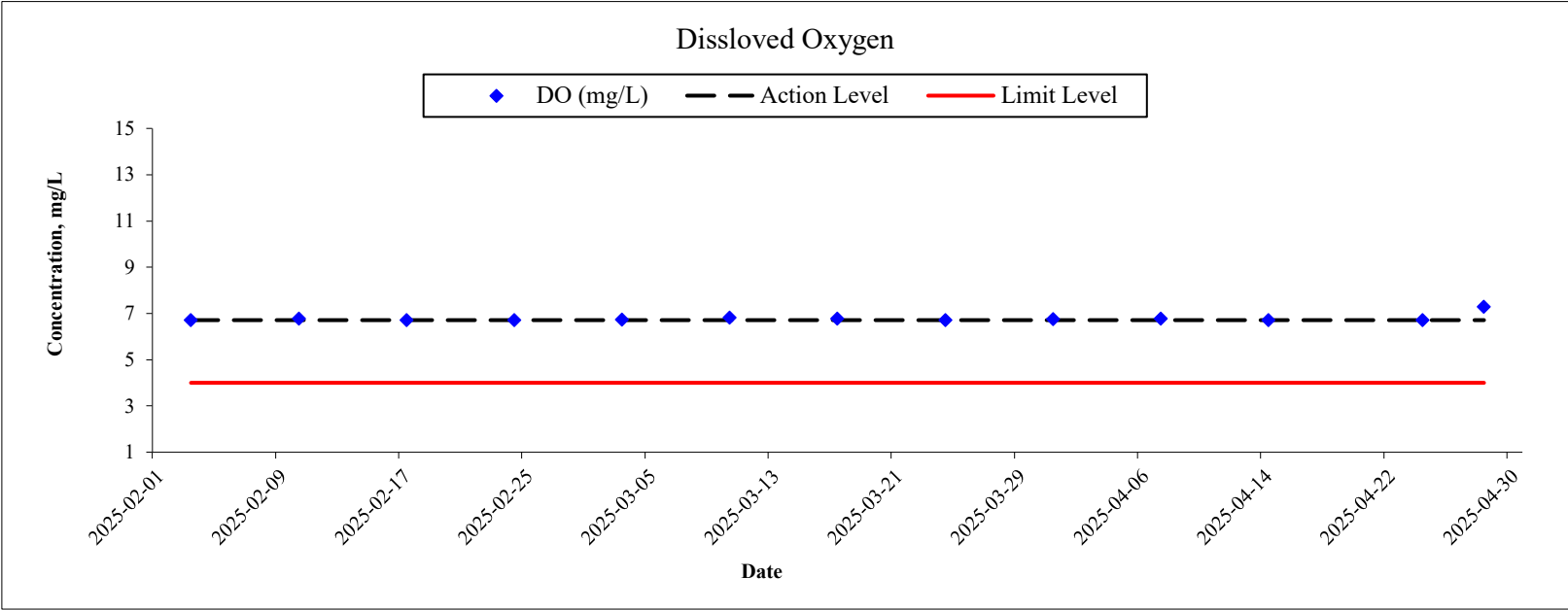


Monitoring Location: C2





Monitoring Location: C1A

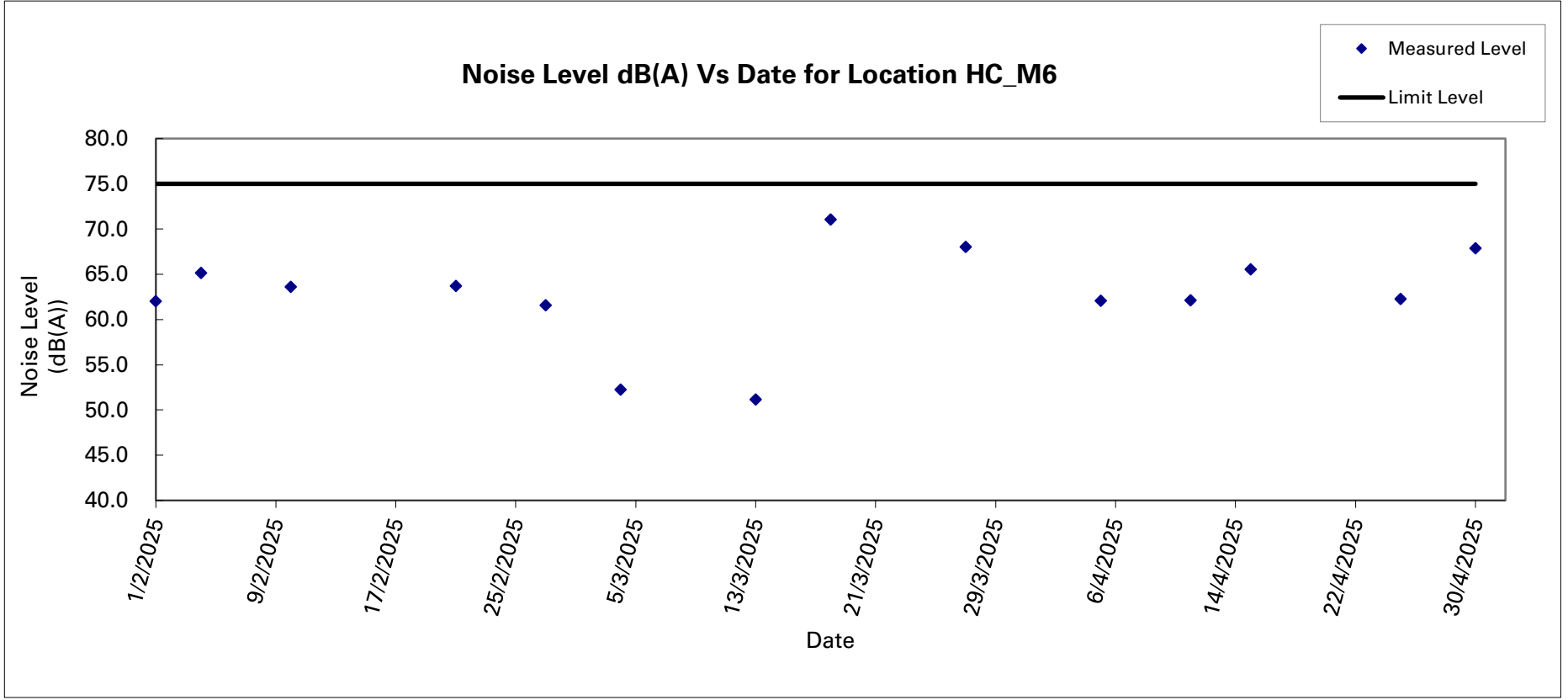
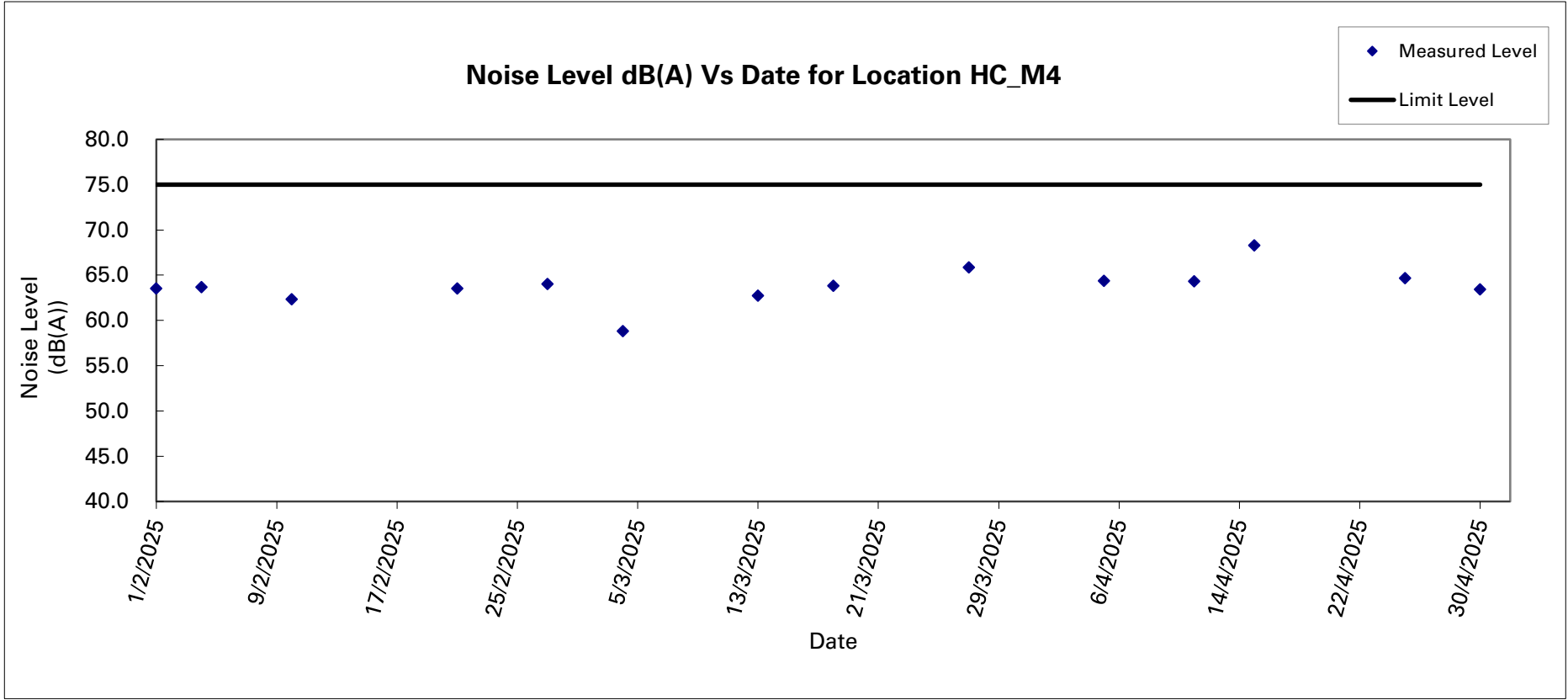
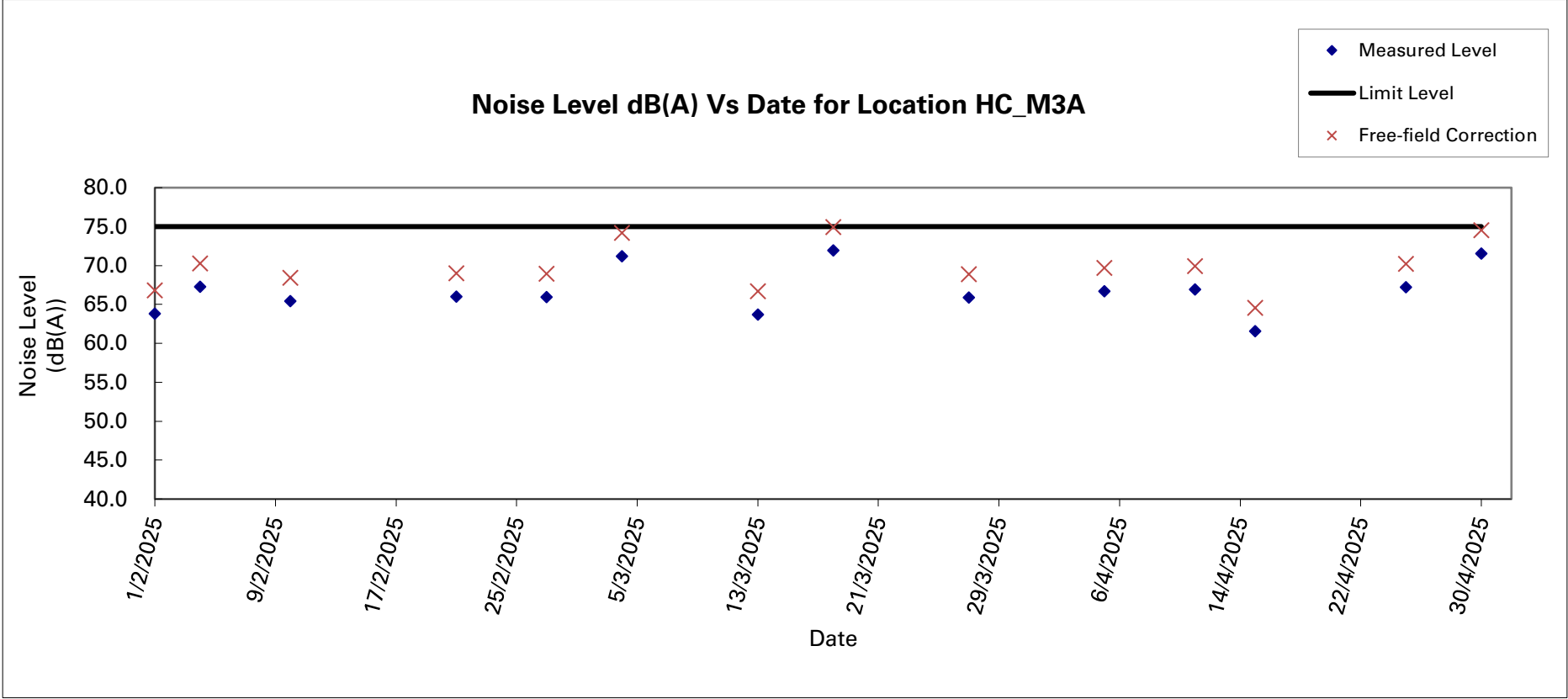


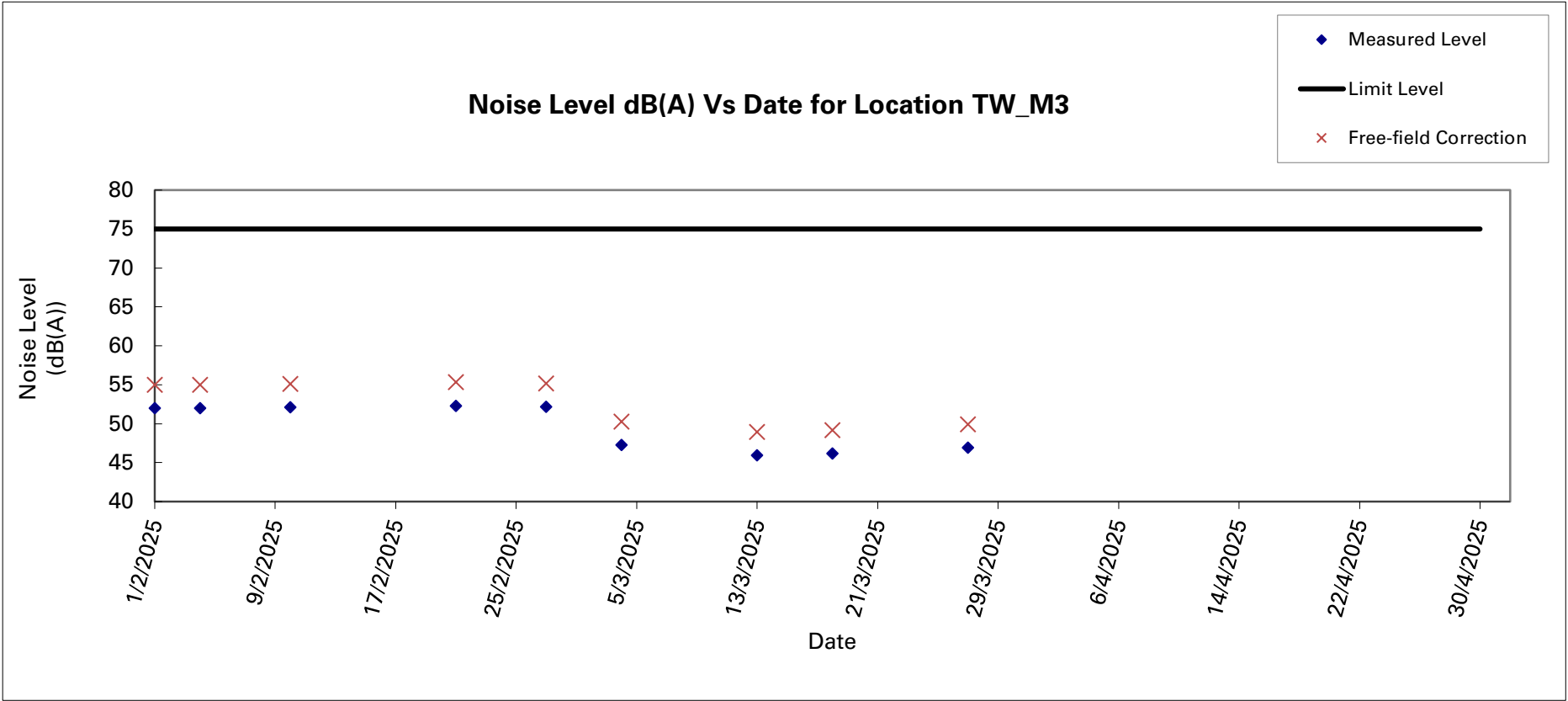
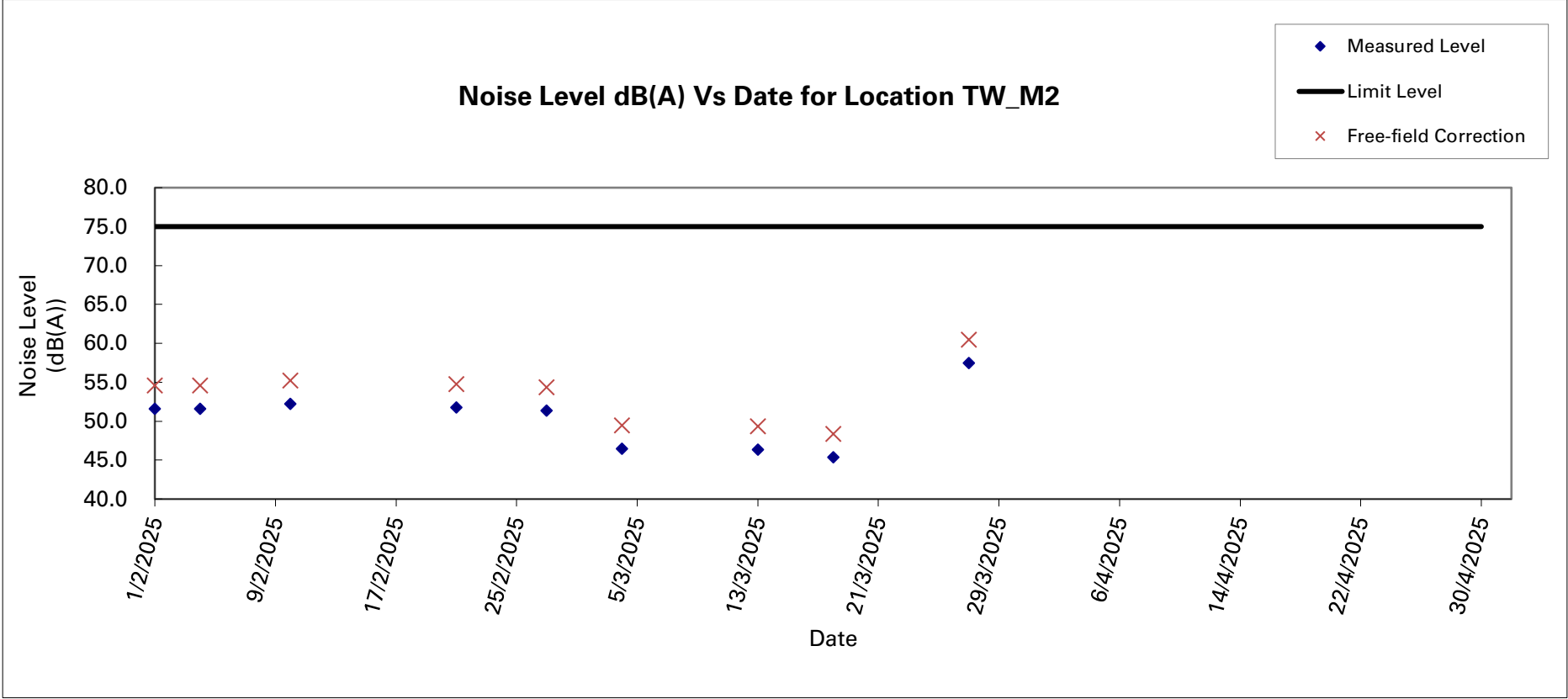
Appendix 3.1 Event and Action Plans for Noise

Event and Action Plan for Noise

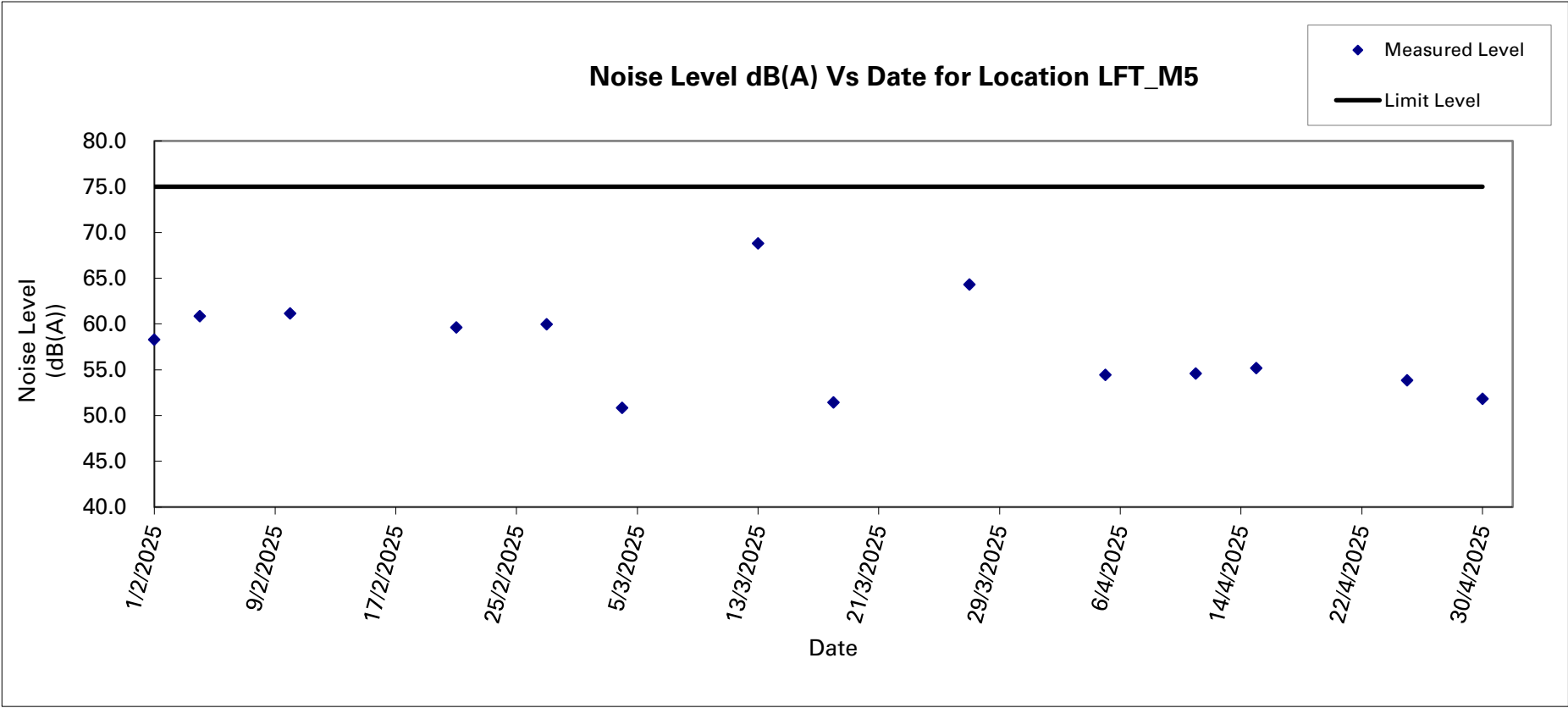
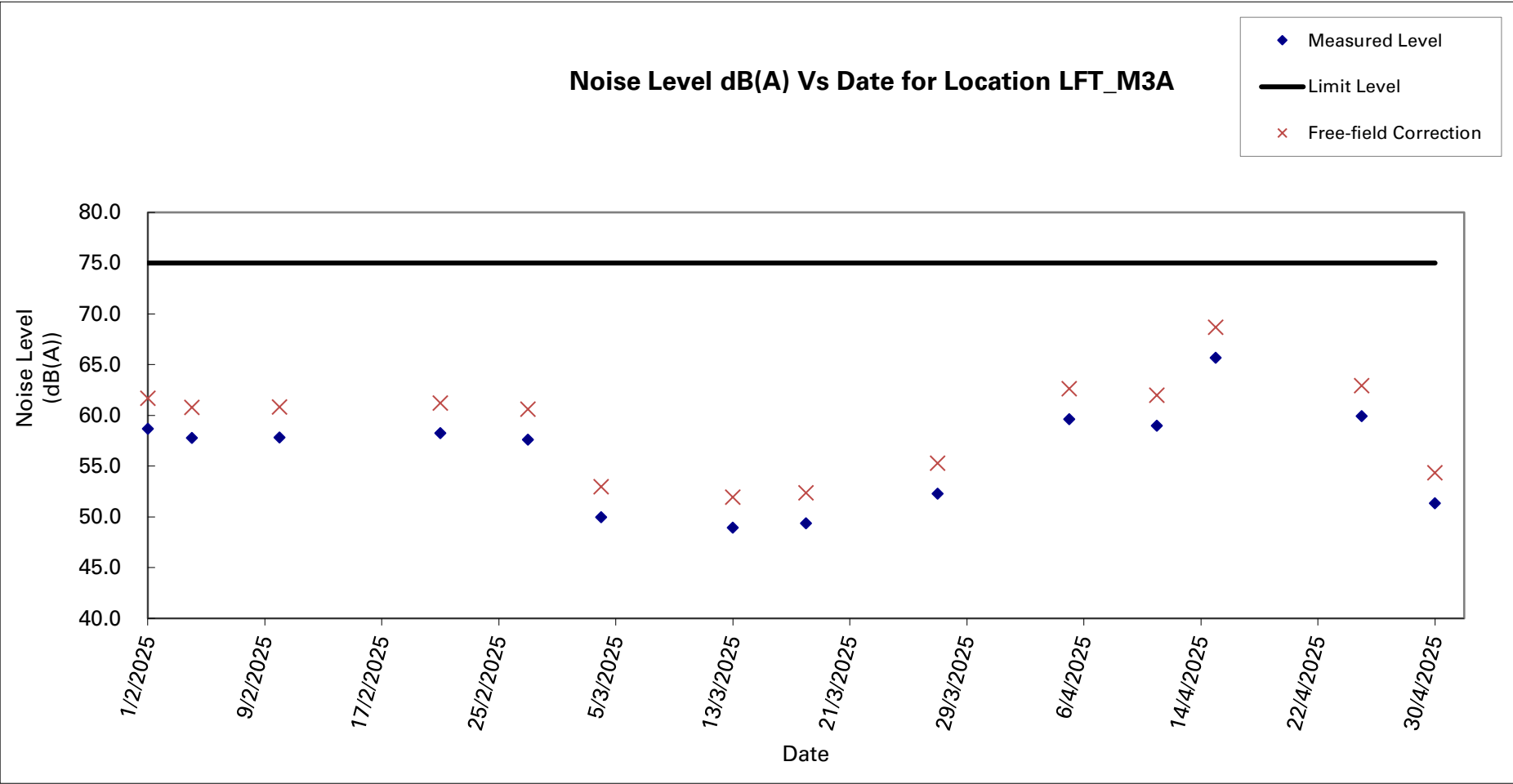
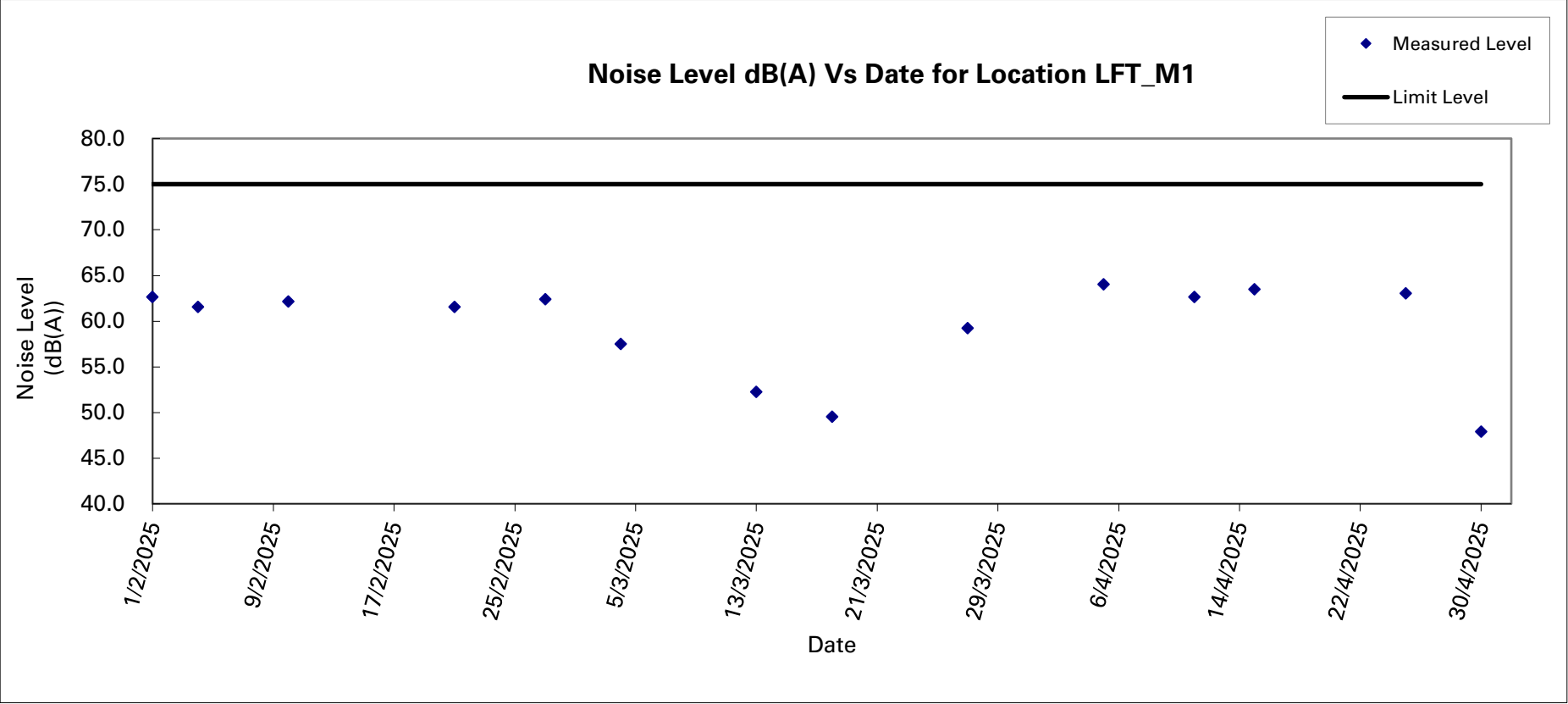
Event	ET	IEC	ER	Contractor
Action Level	1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check the effectiveness 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.

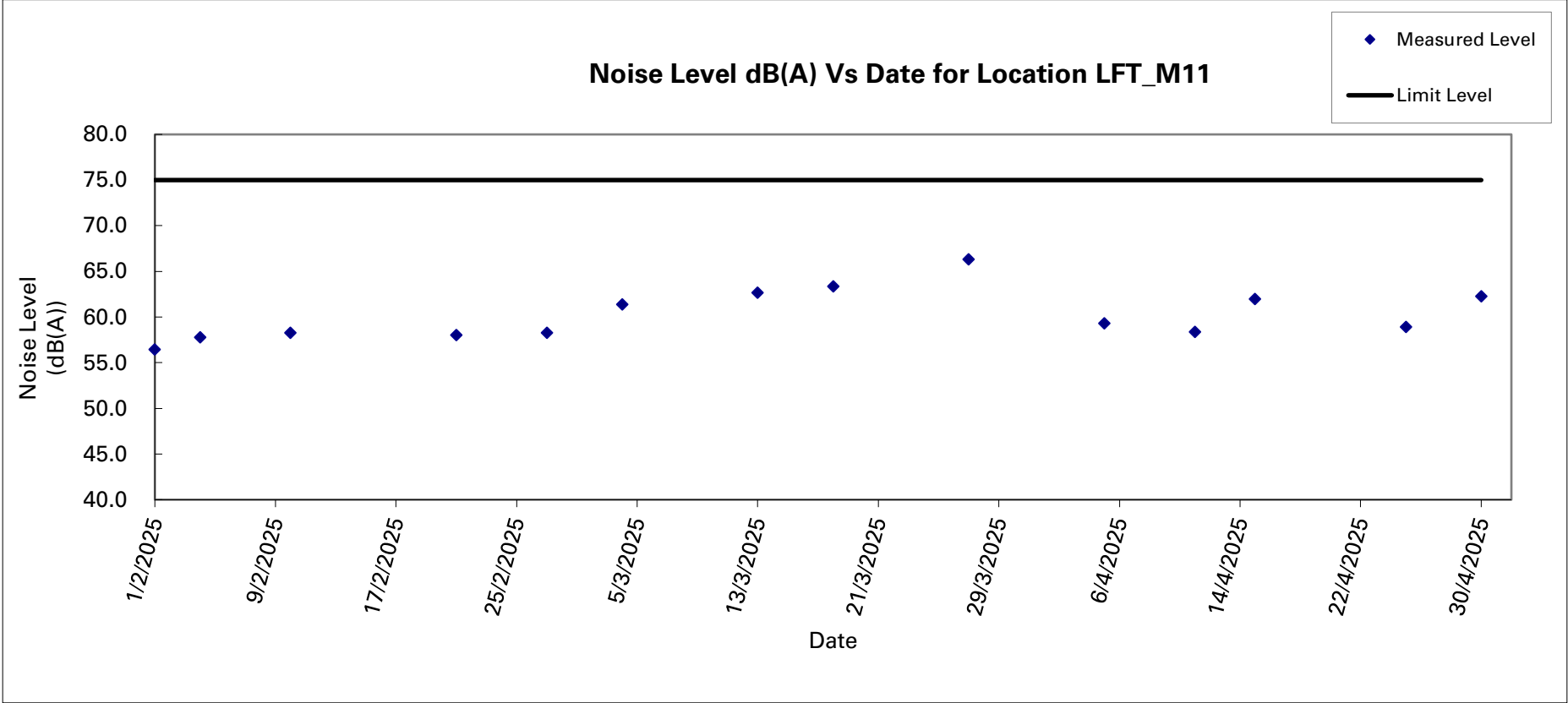
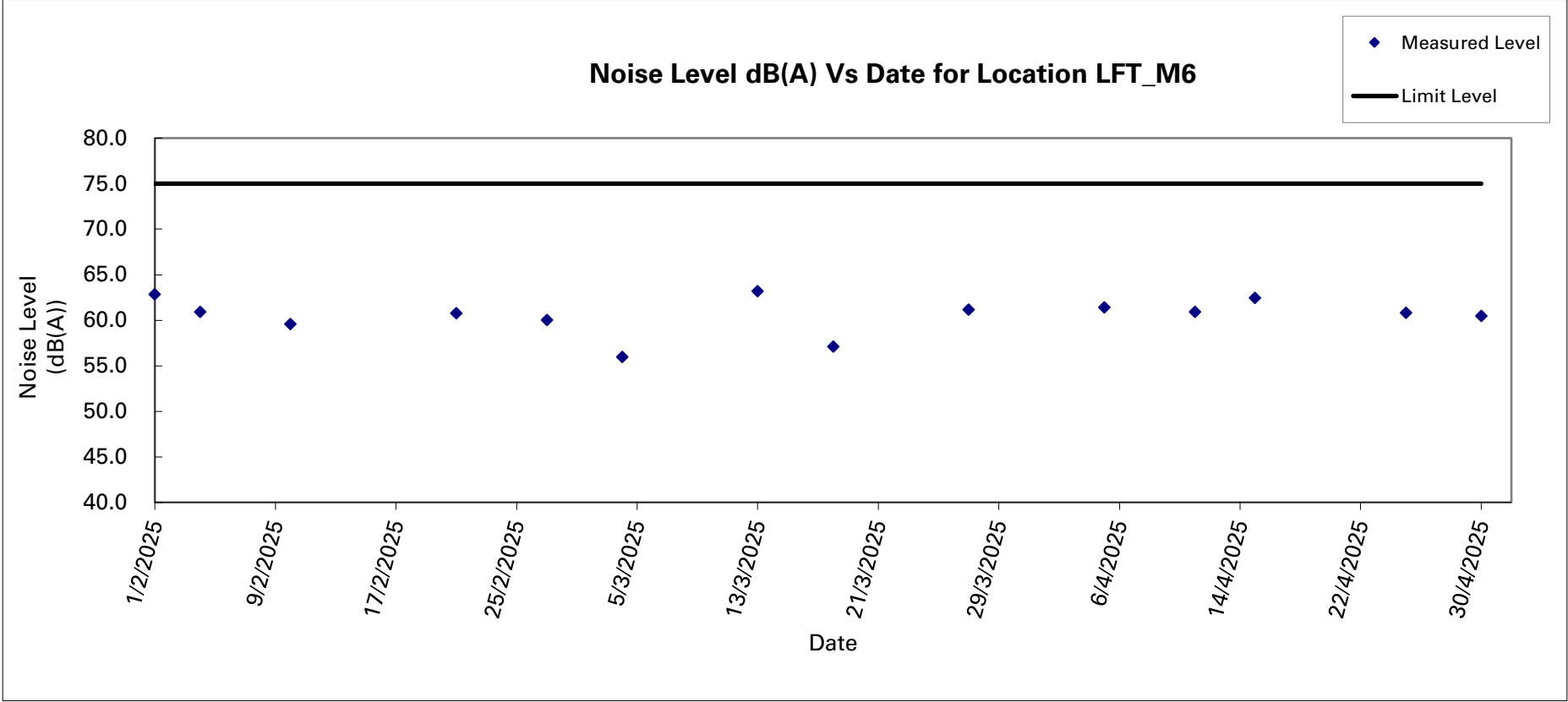
Appendix 3.2 Graphical Presentation of Noise Monitoring

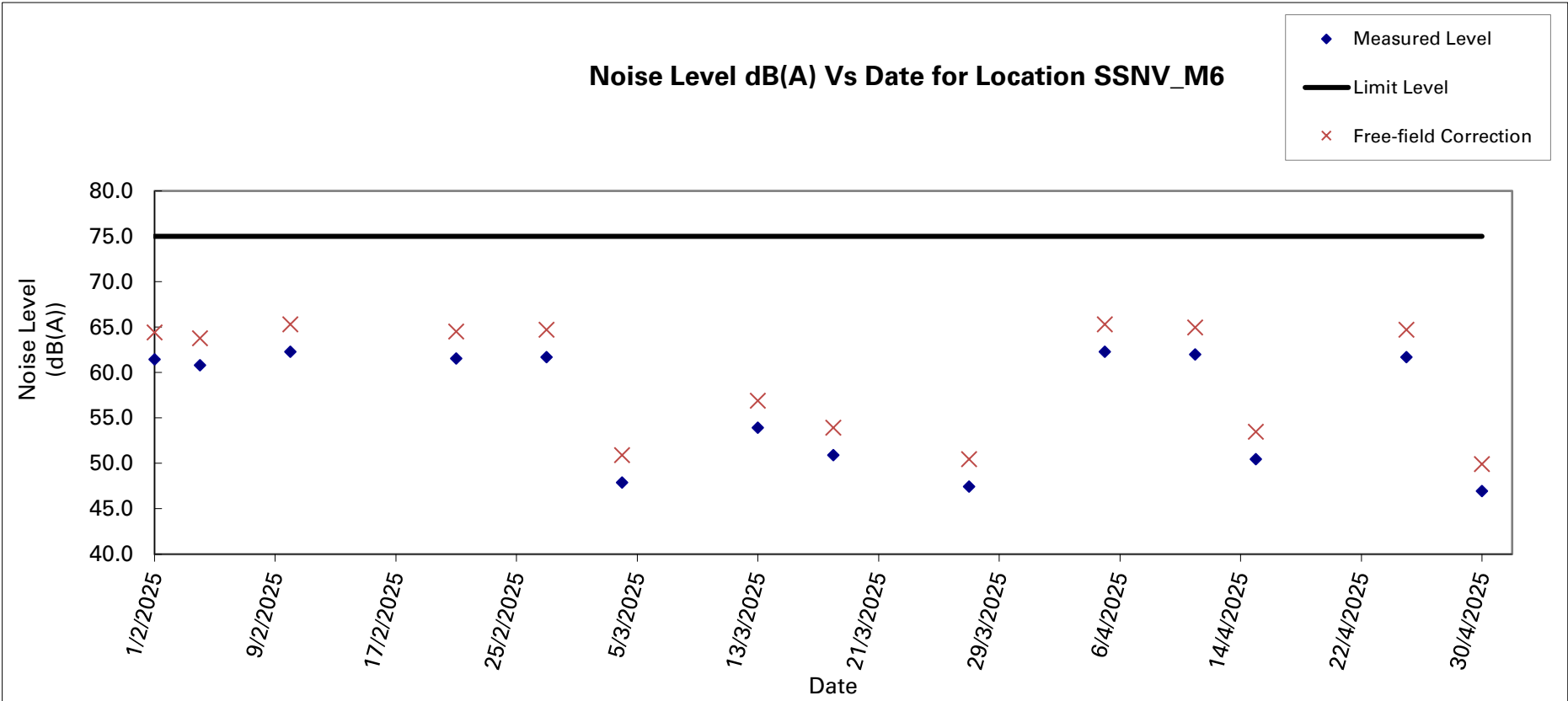
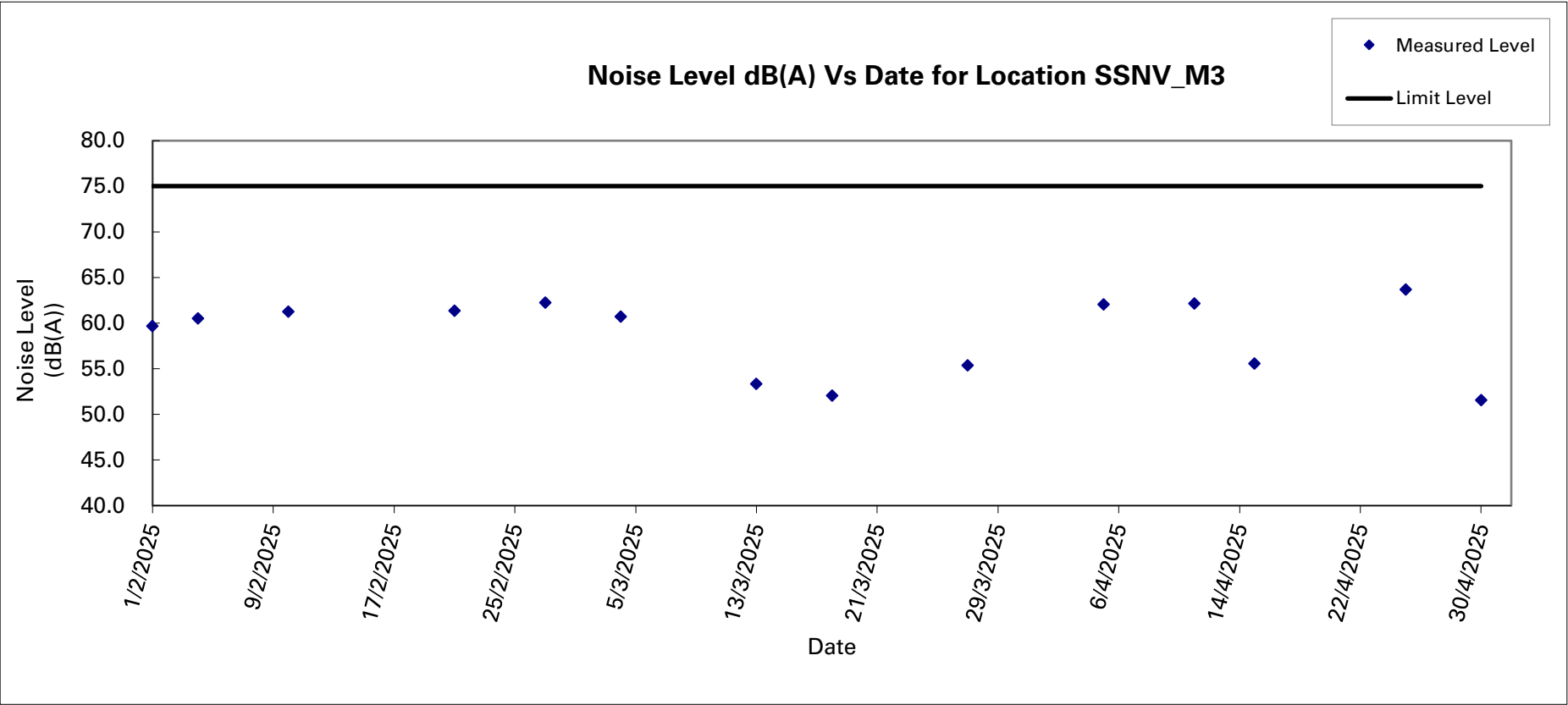
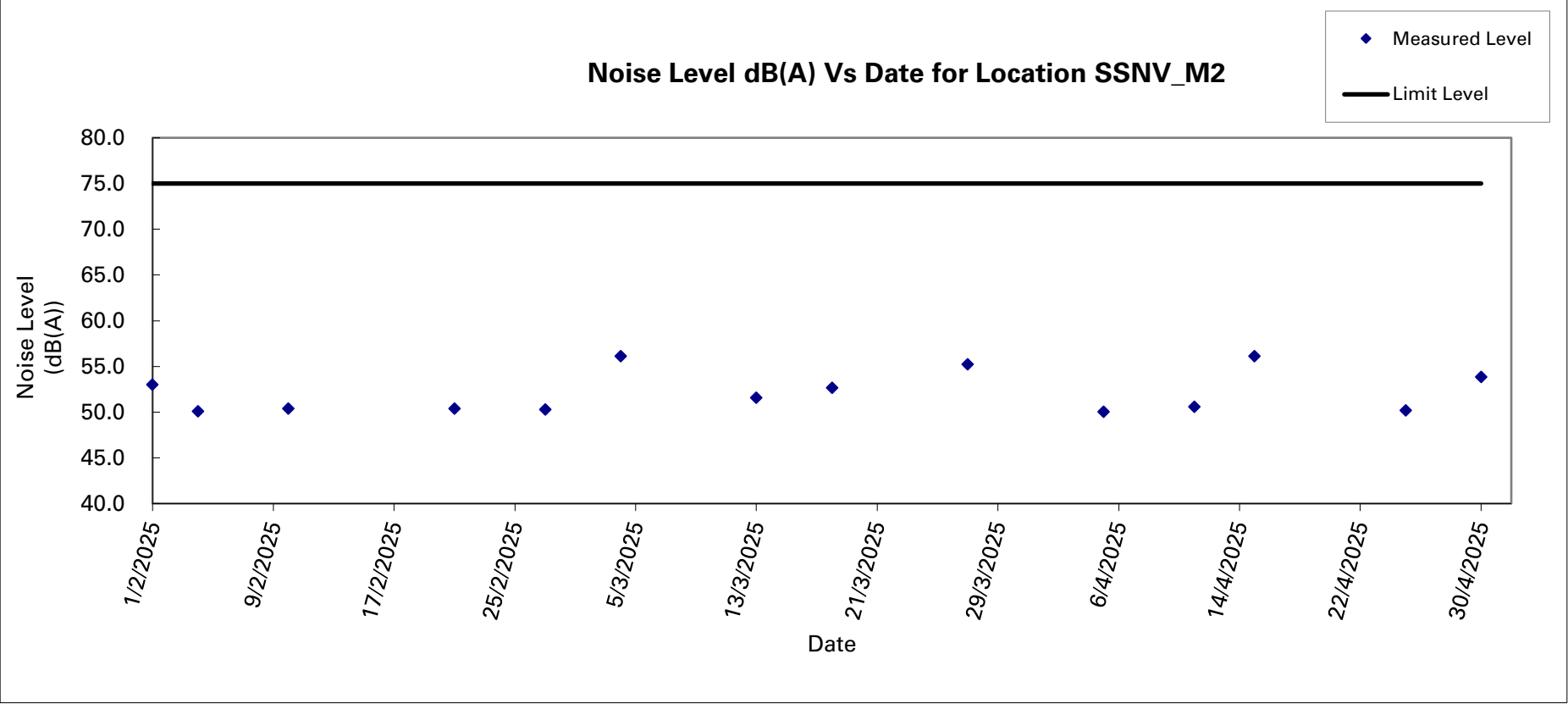




*Due to no construction activities conducted at Tai Wo from 1 April 2025 to 30 April 2025, no impact noise monitoring at Tai Wo was carried out during the above period







Appendix 5.1 Waste Flow Table

Name of Department : Drainage Services Department

Contract No. : DC/2022/02

Monthly Summary Waste Flow Table for 2025

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Materials Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastic	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	2.212	0.205	0.000	0.000	2.007	0.000	0.000	0.000	0.000	0.000	0.009
Feb	0.439	0.081	0.000	0.000	0.358	0.000	0.000	0.000	0.000	0.000	0.014
Mar	0.550	0.048	0.000	0.000	0.501	0.000	0.000	0.000	0.000	0.000	0.021
Apr	0.511	0.098	0	0	0.413	0	0	0	0	0	0.055
May											
Jun											
Sub-total	3.712	0.433	0.000	0.000	3.279	0.000	0.000	0.000	0.000	0.000	0.100
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	3.712	0.433	0.000	0.000	3.279	0.000	0.000	0.000	0.000	0.000	0.100

Appendix 10.1 Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 Feb 2025 - 30 April 2025	2	5	One complaint regarding air quality and one complaint about waste management was received on 19 Feb 2025.

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 Feb 2025 - 30 April 2025	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 Feb 2025 - 30 April 2025	0	0	N/A

Document prepared by

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The Aurecon logo consists of a small green square with a white dot inside, followed by the word "aurecon" in a bold, black, sans-serif font.

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