Civil Engineering and Development Department

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Monthly Environmental Monitoring and Audit Report for July 2025

(Version 1.2)

Certified By

Dr. Priscilla Choy
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

WELLAB accepts no responsibility for changes made to this report by third parties.

WELLAB LIMITED
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2898 7388 Fax: (852) 2898 7076
Website: www.wellab.com.hk

MOTT MACDONALD

Civil Engineering and Development Department
North Development Office
Unit 1501, Level 15, Tower I, Metroplaza,
223 Hing Fong Road,
Kwai Fong, N.T.

Attention: Mr. Ryan Chau

Your Reference

Our Reference
EC/TC/hc/414202/L0281

3/F Manulife Place
348 Kwun Tong Road
Kowloon
Hong Kong

T +852 2828 5757
F +852 2827 1823
mottmac.hk

Agreement No. CE 33/2019 (EP)
Independent Environmental Checker for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas – Investigation

Monthly Environmental Monitoring and Audit Report No. 69 (July 2025)

18 August 2025

BY EMAIL

Dear Sir,

We refer to email of 15 August 2025 attaching the Monthly Environmental Monitoring and Audit Report No. 69 prepared by the Environmental Team (ET) of the captioned.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore, we write to verify the captioned submission in accordance with the Condition 3.4 of the Environmental Permit no. EP-466/2013/A, EP-467/2013/A, EP-468/2013/A, EP-469/2013, EP-470/2013A, EP-473/2013/A, EP-475/2013/A and EP-546/2017.

Should you have any queries, please contact the undersigned.

Yours faithfully,
For and on behalf of the
Mott MacDonald Hong Kong Limited



Ir Thomas Chan
Independent Environmental Checker
T +852 2828 5967
Thomas.Chan@mottmac.com

c.c.

AECOM	Mr. Chris Ho	chris.ho@aecom.com
Wellab Ltd.	Dr. Priscilla Choy/	priscilla.choy@wellab.com.hk
	Ms. Ivy Tam	ivy.tam@wellab.com.hk

Mott MacDonald Hong Kong Limited
registered in Hong Kong no. 236497

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY 1
Introduction 1
Environmental Monitoring and Audit Progress 2
Breaches of Action and Limit Levels 5
Reporting Changes 6
Future Key Issues 6

1 INTRODUCTION 9
Purpose of the report 9
Structure of the report 9

2 PROJECT INFORMATION 11
Background 11
Project Organization 13
Summary of Construction Works Undertaken During Reporting Month 15
Construction Programme 17
Status of Environmental Licences, Notifications and Permits 17

3 AIR QUALITY MONITORING 21
Monitoring Requirements 21
Monitoring Location 21
Monitoring Equipment 22
Monitoring Parameters, Frequency and Duration 22
Monitoring Methodology and QA/QC Procedure 23
Results and Observations 25
Event and Action Plan 26

4. NOISE MONITORING 27
Monitoring Requirements 27
Monitoring Location 27
Monitoring Equipment 27
Monitoring Parameters, Frequency and Duration 28
Monitoring Methodology and QA/QC Procedures 29
Maintenance and Calibration 29
Results and Observations 29
Event and Action Plan 31

5. WATER QUALITY MONITORING 32
Monitoring Requirements 32
Monitoring Parameters, Frequency 32
Results and Observations 32
Monitoring Requirements 33
Monitoring Locations 33
Monitoring Equipment 34
Monitoring Parameters and Frequency 36
QA/QC Requirements 37
Results and Observations 38
Event and Action Plan 38

6. LAND CONTAMINATION (AMBIENT ARSENIC MONITORING) 39
Monitoring Requirements 39
Monitoring Location 39
Monitoring Equipment 40

Monitoring Parameters, Frequency and Duration 40
Monitoring Methodology and QA/QC Procedure 40
Maintenance/Calibration 41
Laboratory Measurement / Analysis 41
Results and Observations 42
Event and Action Plan 42

7. LANDFILL GAS MONITORING 43
Monitoring Requirement 43
Monitoring Parameters and Frequency 43
Monitoring Locations 43
Monitoring Equipment 43
Results and Observations 44
Event and Action Plan 44

8. BUILT HERITAGE MONITORING 45
Monitoring Requirement 45
Monitoring Location 45
Monitoring Parameters and Frequency 45
Monitoring Equipment 46
Results and Observations 46
Event and Action Plan 46

9 ECOLOGICAL MONITORING 47
Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, Shek Sheung River and Long Valley 47
Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream, and Long Valley 49
Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution 52
Results and Observation 55
References 57

10 ENVIRONMENTAL SITE INSPECTION 58
Site Audits 58
Implementation Status of Environmental Mitigation Measures 62
Implementation Status of Water Quality Mitigation Measures 64
Solid and Liquid Waste Management Status 67
Ecological Mitigation Measures – Creation of Long Valley Nature Park (LVNP) 67

11 ENVIRONMENTAL NON-CONFORMANCE 71
Summary of Exceedances 71
Summary of Environmental Non-Compliance 71
Summary of Environmental Complaint 71
Summary of Environmental Summon and Successful Prosecution 71

12 FUTURE KEY ISSUES 72
Key Issues in the Coming Three Months 72
Monitoring Schedule for the Next Month 80
Construction Programme for the Next Month 80

13 CONCLUSIONS AND RECOMMENDATIONS 81
Conclusions 81
Recommendations 82

LIST OF TABLES

Table I Works Contracts under relevant Environmental Permit(s) in the Reporting Month
Table II Summary Table for EM&A Activities in the Reporting Month
Table III Summary Table for Events Recorded in the Reporting Month
Table IV Summary Table for Site Activities in the coming Three Months

Table 2.1a Summary of EPs under the Project and the Respective Work Contracts
Table 2.1b Summary of Scope of Works under Concerned EP
Table 2.2 Key Contacts of the Project
Table 2.3 Summary Table for Major Site Activities in the Reporting Month
Table 2.4 Status of Environmental Licences, Notifications and Permits
Table 3.1 Location for Air Quality Monitoring Locations
Table 3.2 Air Quality Monitoring Equipment
Table 3.3 Impact Dust Monitoring Parameters, Frequency and Duration
Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month
Table 3.5 Summary Table of 24-hour TSP Monitoring Results during the Reporting Month
Table 3.6 Observation at Dust Monitoring Stations
Table 4.1 Location for Noise Monitoring Stations
Table 4.2 Noise Monitoring Equipment
Table 4.3 Noise Monitoring Parameters, Duration and Frequency
Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month
Table 4.5 Observation at Noise Monitoring Stations
Table 5.1 Water Quality Monitoring Parameters and Frequency
Table 5.2 Additional Water Quality Monitoring Stations
Table 5.3 Water Quality Monitoring Equipment
Table 5.4 Additional Water Quality Monitoring Parameters and Frequency
Table 5.5 Method for Laboratory Analysis for Water Samples
Table 6.1 Location of Ambient Arsenic Monitoring station
Table 6.2 Ambient Arsenic Monitoring Equipment
Table 6.3 Impact Ambient Arsenic Monitoring Parameters, Frequency and Duration
Table 6.4 Summary Table of 24-hour RSP Monitoring Results during the Reporting Month
Table 7.1 Landfill Gas Monitoring Equipment
Table 8.1 Location of Construction Vibration Monitoring
Table 8.2 Vibration Monitoring Plan
Table 8.3 Vibration Limits for Construction Vibration Monitoring (PNAP APP-137)
Table 8.4 Vibration Limits for Construction Vibration Monitoring (3As)
Table 9.1 Summary Table of Avifauna Monitoring Results to Corresponding Action and Limit Levels
Table 9.2 Summary Table of Aquatic Macroinvertebrates Monitoring Results to Corresponding Action and Limit Levels
Table 9.3 Summary Table of Fish Monitoring Results to Corresponding Action and Limit Levels
Table 9.4 Summary Table of Mammal Monitoring Results to Corresponding Action and Limit Levels
Table 9.5 Summary Table of Herpetofauna Monitoring Results to Corresponding Action and Limit Levels
Table 9.6 Summary Table of Butterfly Monitoring Results to Corresponding Action and Limit Levels

Table 9.7 Summary Table of Odonata Monitoring Results to Corresponding Action and Limit Levels
Table 10.1 Summary of Site Audit
Table 10.2 Observations and Recommendations of Site Audit
Table 10.3 Summary Table for the Outstanding item(s) in the reporting month
Table 10.4 Photographic Records and Implementation Status of Measures
Table 10.5 Specific Water Quality Mitigation Measures for Major Construction Works in the Reporting Month
Table 10.6 Photographic Records of Site Activities in LVNP
Table 12.1 Summary Table for Site Activities, Potential Environmental Impacts and Recommended Mitigation Measures in the coming Months

LIST OF DRAWINGS

Drawing no. 1 Project Boundary for the Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

LIST OF FIGURES

Figure 1 Location of Air Quality Monitoring Station (KTN)
Figure 2 Location of Air Quality Monitoring Station (FLN)
Figure 3 Location of Noise Monitoring Station (KTN)
Figure 4 Location of Noise Monitoring Station (FLN)
Figure 5 Location of Additional Water Quality Monitoring Stations at River Beas
Figure 6 Location of Additional Water Quality Monitoring Stations at River Indus and near Siu Hang San Tsuen Stream
Figure 7 Location of Ambient Arsenic Monitoring Station
Figure 8 Location of Landfill Gas monitoring
Figure 9 Location of Monitoring of Measures to minimise Disturbance to Water Birds on Ng Tung, Sheung Yue River and Long Valley (Transect Routes for T1-T3&T5)
Figure 10 Location of Monitoring Stations at Ma Tso Lung Stream and Siu Hang Sun Tsuen Stream
Figure 11 Location of Transect Routes of Ecological Sensitive Habitats (Non-Aquatic Fauna) Transects (T1, T3-T6)
Figure 12 Site Layout Plan of Contract ND/2019/01 under EP-466/2013/A
Figure 13 Site Layout Plan of Contract ND/2019/01 under EP-467/2013/A
Figure 14 Site Layout Plan of Contract ND/2019/01 under EP/468-2013/A
Figure 15 Site Layout Plan of Contract ND/2019/03 under EP-468/2013/A
Figure 16 Site Layout Plan of Contract ND/2019/02 under EP-469/2013
Figure 17 Site Layout Plan of Contract ND/2019/01 under EP-470/2013/A
Figure 18 Site Layout Plan of Contract ND/2019/03 under EP-473/2013/A
Figure 19 Site Layout Plan of Contract ND/2019/04 under EP-473/2013/A
Figure 20 Site Layout Plan of Contract ND/2019/05 under EP-473/2013/A
Figure 21 Site Layout Plan of Contract ND/2019/06 under EP-475/2013/A
Figure 22 Site Layout Plan of Contract ND/2019/04 under EP-546-2017

LIST OF APPENDICES

Appendix A Construction Programme
Appendix B Action and Limit Levels
Appendix C Copies of Calibration Certificates
Appendix D Environmental Monitoring Schedules
Appendix E Air Quality and Ambient Arsenic Monitoring Results and Graphical Presentation
Appendix F Noise Monitoring Results and Graphical Presentation
Appendix G Water Quality Monitoring Results and Graphical Presentations
Appendix H Laboratory Testing Reports for Laboratory Analysis
Appendix I Quality Control Reports for SS and Arsenic Laboratory Analysis
Appendix J Landfill Gas Monitoring Results
Appendix K Built Heritage Monitoring Results
Appendix L Ecological Monitoring Results
Appendix M Weather Condition
Appendix N Event Action Plans
Appendix O Summary of Exceedance
Appendix P Site Audit Summary
Appendix Q Environmental Mitigation Implementation Schedule (EMIS)
Appendix R Waste Generation in the Reporting Month
Appendix S Complaint Log
Appendix T Summary of Successful Prosecution
Appendix U Summary Table for Required Submission under Environmental Permits

EXECUTIVE SUMMARY

Introduction

1. This is the 69th monthly Environmental Monitoring and Audit (EM&A) Report for the First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs), comprising the Advance Works and First Stage Works (hereinafter called the "the Project"). This report is prepared by Wellab Limited under "Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of KTN and FLN NDAs" (hereinafter called the "Service Contract"). This report documents the findings of EM&A works conducted in July 2025.

2. During the reporting month, the following Works Contracts under relevant Environmental Permit(s) were undertaken for the Project:

Table I Works Contracts under relevant Environmental Permit(s) in the Reporting Month

Works Contracts	Environmental Permit No.	Designated Project (DP)	Commencement date of construction
Contract No. ND/2019/01 – Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works	EP-466/2013/A	Castle Peak Road Diversion	12 August 2020
	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	12 August 2020
	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	1 June 2020
	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	23 March 2020
Contract No. ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development Area and Shek Wu Hui	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area	28 October 2020
Contract No. ND/2019/03 – Kwu Tung North and Fanling North New Development Areas, Phase 1: Development of Long Valley Nature Park	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	3 July 2020
	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	6 October 2020
Contract No. ND/2019/04 – Fanling North New Development Area,	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	23 February 2021

Works Contracts	Environmental Permit No.	Designated Project (DP)	Commencement date of construction
Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)	EP-546/2017	Fanling North Temporary Sewage Pumping Station	16 February 2021
Contract No. ND/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	1 August 2020
Contract No. ND/2019/06 – Fanling North New Development Area, Phase 1: Re-provisioning of North District Temporary Wholesale Market for Agricultural Products	EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area	29 October 2019
Contract No. ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works	Works area not under relevant Environmental Permit for Phase 1 of the Project.		1 March 2021

Environmental Monitoring and Audit Progress

3. A summary of the EM&A activities in this reporting month is listed in **Table II** below:

Table II Summary Table for EM&A Activities in the Reporting Month

<table>
<tr><th rowspan="2">EM&A Activities</th><th rowspan="2">Monitoring Station (s)</th><th colspan="7">Works Contracts</th></tr>
<tr><th>ND/2019/01</th><th>ND/2019/02</th><th>ND/2019/03</th><th>ND/2019/04</th><th>ND/2019/05</th><th>ND/2019/06</th><th>ND/2019/07</th></tr>
<tr><td rowspan="4">1-hr Total Suspended Particulates (TSP) Monitoring</td><td>FLN-DMS1</td><td rowspan="3">N/A</td><td rowspan="4">N/A</td><td>4, 10, 16, 22 and 28 Jul 25</td><td>4, 10, 16, 22 and 28 Jul 25</td><td>N/A</td><td rowspan="4">N/A</td><td rowspan="4">N/A</td></tr>
<tr><td>FLN-DMS3</td><td>N/A</td><td>N/A</td><td>4, 10, 16, 22 and 28 Jul 25</td></tr>
<tr><td>FLN-DMS5</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td rowspan="2">N/A</td></tr>
<tr><td>KTN-DMS4(B)</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>N/A</td></tr>
<tr><td rowspan="4">24-hr TSP Monitoring</td><td>FLN-DMS1</td><td rowspan="3">N/A</td><td rowspan="4">N/A</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>N/A</td><td rowspan="4">N/A</td><td rowspan="4">N/A</td></tr>
<tr><td>FLN-DMS3</td><td>N/A</td><td>N/A</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td></tr>
<tr><td>FLN-DMS5A</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td rowspan="2">N/A</td></tr>
<tr><td>KTN-DMS4(B)</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>3, 9, 15, 21, 25 and 31 Jul 25</td><td>N/A</td></tr>
<tr><td rowspan="6">Noise Monitoring</td><td>CP-FLN-NMS1</td><td colspan="3">N/A</td><td colspan="3">10, 16, 22 and 28 Jul 25</td><td rowspan="6">N/A</td></tr>
<tr><td>CP-FLN-NMS2</td><td colspan="4">N/A</td><td>10, 16, 22 and 28 Jul 25</td><td>N/A</td></tr>
<tr><td>CP-KTN-NMS2</td><td rowspan="3">3, 9, 15, 21 and 31 Jul 25</td><td rowspan="3">N/A</td><td colspan="3" rowspan="4">N/A</td></tr>
<tr><td>CP-KTN-NMS3</td></tr>
<tr><td>CP-KTN-NMS5</td></tr>
<tr><td>CP-KTN-NMS6</td><td>N/A</td><td>3, 9, 15, 21 and 31 Jul 25</td></tr>
<tr><td rowspan="2">Ecological Survey</td><td>Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung River, Sheung Yue River, and Long Valley</td><td>N/A</td><td>N/A</td><td>3, 4, 10, 11, 17, 18, 22, 23, 29 and 31 Jul 25</td><td>4, 11, 18, 23 and 29 Jul 25</td><td>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream</td><td>15 Jul 25</td><td>N/A*</td><td>15 Jul 25</td><td>15 Jul 25</td><td>N/A*</td><td>N/A*</td><td>N/A*</td></tr>
</table>

EM&A Activities	Monitoring Station (s)	Works Contracts						
		ND/2019/01	ND/2019/02	ND/2019/03	ND/2019/04	ND/2019/05	ND/2019/06	ND/2019/07
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	28 and 30 Jul 25	28 and 30 Jul 25	28 Jul 25	28 Jul 25	28 Jul 25	N/A*	N/A*
Egretry Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
24-hr RSP (Ambient Arsenic) Monitoring for Land Contamination		3, 9, 15, 21, 25 and 31 Jul 25	N/A	3, 9, 15, 21, 25 and 31 Jul 25	N/A	N/A	N/A	N/A
Water Quality Monitoring		N/A	2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25, 28 and 30 Jul 25	N/A	2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25, 28 and 30 Jul 25	N/A	N/A	N/A
Landfill Gas Monitoring		8 Jul 25	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Environmental Site Inspection		2, 8, 14, 23 and 29 Jul 25	2, 8, 16, 23 and 30 Jul 25	NIL	3, 9, 17, 22 and 31 Jul 25	7, 14, 24 and 30 Jul 25	NIL	7, 18, 22 and 30 Jul 25

Remarks:

N/A – No relevant monitoring is required according to the updated EM&A Manual

N/A* – No relevant monitoring is required according to the Baseline Ecological Monitoring Plan (Table 3.1)

[1] Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

[2] Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

[3] Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m, the monitoring station is not applicable to ND/2019/02

[4] Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m, the monitoring station is not applicable to ND/2019/05

[5] Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04

[6] Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05

[7] Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04

[8] Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

Breaches of Action and Limit Levels

4. Summary of the environmental exceedances of the reporting month is tabulated in **Table III**.

Table III Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of non-project related Exceedances		Total No. of non-project related Exceedances	No. of Exceedance related to the Construction Works of the Contract		Total No. of Exceedance related to the Construction Works of the Contract
		Action Level	Limit Level		Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	0	0
	24-hr TSP	0	0	0	0	0	0
	24-hr RSP (Ambient Arsenic)	0	0	0	0	0	0
Noise	$L_{eq(30min)}$	1	0	1	0	0	0
Water Quality	DO	0	0	0	0	0	0
	Turbidity	0	0	0	0	0	0
	SS	0	0	0	0	0	0
	Arsenic	0	0	0	0	0	0
Landfill Gas	O_2	0	0	0	0	0	0
	CH_4						
	CO_2						
Cultural heritage	Built Heritage Monitoring	0	0	0	0	0	0
Ecological Monitoring	Avifauna	0	0	0	0	0	0
	Aquatic fauna	0	0	0	0	0	0
	Non-aquatic fauna	0	6	6	0	0	0

Air Quality

5. All construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

6. All construction noise monitoring was conducted as scheduled in the reporting month. One (1) Action Level exceedance was recorded due to one noise complaint was received in the reporting month. No Limit Level exceedance was recorded.

Water Quality

7. All additional water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. No construction of channel for alternation of natural streams was carried out in the reporting month. Therefore, no water quality monitoring was conducted according to the Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA). Relevant details are given in Section 5.

Land Contamination

8. All ambient arsenic monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Landfill Gas Monitoring

9. Monitoring of landfill gas in the reporting month was carried out by the Contractor under ND/2019/01 at excavation location Portion 6b. No Limit Level exceedance was recorded.

Built Heritage Monitoring

10. No Built heritage monitoring was carried out in the reporting month due to no works causing for surveyed cultural heritage at all. No Limit Level exceedance was recorded.

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month. Six (6) Limit Level exceedances for non-aquatic fauna were recorded at T1, T3, T4 & T6 respectively. The exceedances were considered non-project related as supported by environmental monitoring data. No evidence to suggest that the exceedance was related to project activities. The ecological monitoring result in the Reporting Month is shown in **Appendix L**.

Complaint Log

12. One (1) complaint was received in the reporting month. The case regarding construction noise from the site of ND/2019/01 was received by EPD on 31 July 2025 and referred by EPD on 7 August 2025. Details are shown in **Appendix S**.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

14. This report has been prepared in compliance with the reporting requirements for the subsequent monthly EM&A Report as required by the "Updated Environmental Monitoring and Audit Manual for Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas" (Updated EM&A Manual).

Future Key Issues

15. The major site activities for the coming three months are shown in **Table IV.**

Table IV Summary Table for Site Activities in the coming Three Months

Contract No.	Site Activities (August to October 2025)
ND/2019/01	(a) Drainage works, watermain works, sheet piling, site formation and slope works in Portion 1a (b) Site formation, watermain works, ELS construction, sewage works, backfilling and road works in Portion 1c (c) Site formation, construction of subway, road works, drainage works, slope works and soil nail in Portion 2 (d) HAC soil treatment and watermain works in Portion 3 (e) Site formation, watermain works and drainage works in Portion 5 (f) Backfilling, drainage works, watermains works, slope works, road works and ELS construction in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Excavation, drainage works, watermain works, sewage works and road works in Portion 7 (i) Road works, RC structure works, drainage works, watermain works, backfilling, planting, metal works, slope works and E&M works in Portion 8a (j) Ground treatment, grouting, watermain works, ELS construction and RC structure works in Portion 8b (k) Sheet piling, excavation, road works, drainage works, watermain works and district cooling system works in Portion 9b (l) Drainage works, sewerage works, watermain works and road works in Portion 10b. (m) Excavation, watermain works, drainage works and road works in Portion 11b (n) Stockpile of soil in Portion 13
ND/2019/02	(a) Backfilling (b) Excavation (c) Concreting (d) Cut and Fill of Slope (e) Sheet Piling (f) Pipe Jacking (g) Pipe laying and bedding (h) Grouting
ND/2019/03	The construction phase has been completed since 28 March 2025.
ND/2019/04	(a) Back Filling (b) Excavation (c) Grouting (d) Road works (e) Formwork and Scaffolding Erection (f) Rebar Fixing and ELS (g) Backfilling (h) MIC
ND/2019/05	(a) Backfilling (b) Drainage works (c) Water works (d) Ducting and Road works (e) Slope works (f) Segments erection (g) ELS (h) Wall construction

Contract No.	Site Activities (August to October 2025)
ND/2019/06	The construction phase has been completed and handed over to AFCD since 4 April 2022.
ND/2019/07	(a) Road works at Portion 1, 3 and 4 (b) C&D waste disposal at Portion 2 and 4 (c) Filling Works at Portion 2 (d) Construction of site haul road at Portion 4 (e) Drainage works at Portion 1, 2, 3 and 4 (f) Sewerage works at Portion 3 and 4 (g) Construction of noise barrier at Portion 4 (h) Waterworks at Portion 1, 2, 3 and 4

1 INTRODUCTION

1.1 Wellab Limited was commissioned by Civil Engineering and Development Department (CEDD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) services for the Works Contracts involved in the implementation of the First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) Project to ensure that the environmental performance of the Works Contracts complies with the requirements specified in the Environmental Permits (EPs), Updated EM&A Manual, Environmental Impact Assessment (EIA) Report of the KTN FLN NDAs project and other relevant statutory requirements.

Purpose of the report

1.2 This is the 69th EM&A Report which summarises the key findings of the EM&A programme in July 2025.

Structure of the report

1.3 The structure of the report is as follows:

Section 1: **Introduction -** purpose and structure of the report.

Section 2: **Project Information -** summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3: **Air Quality Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: **Noise Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: **Water Quality Monitoring - s**ummarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels and Event / Action Plans.

Section 6: **Land Contamination (Ambient Arsenic Monitoring) -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 7: **Landfill Gas Monitoring -** summarises the monitoring requirement, monitoring parameters and frequency, monitoring locations, Action and Limit Levels, monitoring results and observation, and Event / Action Plans.

Section 8: **Built Heritage Monitoring –** summarises the monitoring requirement, monitoring parameters and frequency, monitoring locations, Action and Limit Levels, monitoring results and observation.

Section 9: **Ecological Monitoring –** summarises the details of monitoring of measures to minimise disturbance to waterbirds in Ng Tung River, Sheung Yue River, Shek Sheung River and Long Valley, monitoring of measures to

minimise impacts on ecological sensitive habitats from disturbance and pollution during the reporting month.

Section 10: **Environmental Site Inspection -** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 11: **Environmental Non-conformance -** summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 12: **Future Key Issues -** summarises the impact forecast, proposed mitigation measures and monitoring schedule for the upcoming months.

Section 13: **Conclusions and Recommendations**

2 PROJECT INFORMATION

Background

2.1 The Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) are one of the important sources of land and housing supply in the medium and long term. The development of the KTN and FLN NDAs will be implemented in phase for full completion by 2031. The Phase 1 of the NDAs development, comprising the Advance Works and First Stage Works, is targeted to be implemented from the second half of 2019 progressively. The Advance and First Stage Works would include site formation, engineering infrastructure works (including roads, drainage, sewerage, waterworks, landscaping works, pumping stations, and fresh water and flushing water service reservoirs), soil remediation, reprovisioning of North District Temporary Wholesale Market, development of a nature park at Long Valley and implementation of environmental mitigation measures.

2.2 The scope of works under the Advance and First Stage Works comprises the following:

a) The Advance Works (PWP item No. 7747CL-2) consist of:
   i) site formation of land (including soil remediation) in KTN and FLN NDAs for housing, community facilities and engineering infrastructure;
   ii) construction of roads including the eastern section of Fanling Bypass (FLBP(E)) connecting the FLN NDA to Fanling Highway and other roads with footpaths and cycle tracks, and associated junction/ road improvements;
   iii) engineering infrastructure works including drainage. Sewerage (including two sewage pumping stations), waterworks (including a fresh water service reservoir and a flushing water service reservoir in the KTN NDA), landscape works and slopeworks;
   iv) part expansion and upgrading of Shek Wu Hui Sewage Treatment Works (SWHSTW);
   v) reprovisioning works; and
   vi) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (v) above.

b) The First Stage Works (PWP item No. 7759CL) consist of:
   i) development of a nature park at Long Valley including provision of a visitor centre and a footbridge spanning across Sheung Yue River for connection between these two facilities;
   ii) reprovisioning of two egretry sites in the FLN NDA and enhancement works to an existing egretry site in the KTN NDA;
   iii) site formation of land for a village resite area and a district police station in the KTN NDA;
   iv) engineering infrastructure works including roads, drainage, sewerage, waterbirds, and landscape works; and
   v) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (iv) above.

2.3 The Project which covers KTN and FLN NDAs is a designated project (DP) under Schedule 3

of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-175/2013) for the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance. The relevant EPs under the Project and the respective Work Contracts are summarised in **Tables 2.1a** and **2.1.b**.

Table 2.1a Summary of EPs under the Project and the Respective Work Contracts

EP No.	Designated Project	C1	C2	C3	C5 A	C5 B	C6	C7
EP-466/2013/A	Castle Peak Road Diversion	✓						
EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	✓						
EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	✓		✓				
EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area		✓					
EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	✓						
EP-473/2013/A	Fanling Bypass Eastern Section			✓	✓	✓		
EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area						✓	
EP-546/2017	Fanling North Temporary Sewage Pumping Station				✓			

Notes: C1: ND/2019/01 C2: ND/2019/02 C3: ND/2019/03 C5A: ND/2019/04
C5B: ND/2019/05 C6: ND/2019/06 C7: ND/2019/07

Table 2.1b Summary of Scope of Works under concerned EP

Environmental Permit (EP) No.	Work Contract(s)	Scope of Works under concerned EP(s)	Site Layout Plan under concerned EP(s)
EP-466/2013/A(Part)	C1	Realign Castle Peak Road and join with the Pak Shek Au Interchange at the western end	Figure 12
EP-467/2013/A(Part)	C1	Construction of new primary distributor road (P1) within Kwu Tung North New Development Area	Figure 13
EP-468/2013/A(Part)	C1	Construction of new primary distributor roads (D1, D3, D4 and part of D5) within Kwu Tung North New Development Area	Figure 14
	C3	Development of a nature park at Long Valley and ecological mitigation and enhancement works for the nature park (Condition 2.9)	Figure 15
EP-469/2013(Part)	C2	Construction of one sewage pumping station in Kwu Tung North with installed capacity of more than 2,000 m3 per day	Figure 16

Environmental Permit (EP) No.	Work Contract(s)	Scope of Works under concerned EP(s)	Site Layout Plan under concerned EP(s)
EP-470/2013/A(Part)	C1	Construction of service reservoir and watermain for the reuse of treated sewage effluent for reuse in Kwu Tung North Development Areas	Figure 17
EP-473/2013/A(Part)	C3	Establishment of alternative egretry sites and enhance the existing egretry site at Ho Sheung Heung and/or its vicinity (Condition 2.7)	Figure 18
EP-473/2013/A(Part)	C5A	Construction of new district distributor inside FLN NDA, which provides a linkage between the Man Kam To Road and the proposed Fanling Bypass Eastern Section	Figure 19
EP-473/2013/A(Part)	C5B		Figure 20
EP-475/2013/A	C6	The re-provisioned wholesale market will have approximately 1,000 market stalls within a site area of around 1.3 ha	Figure21
EP-546/2017	C5A	Construct and operate a temporary sewage pumping station in Fanling North with installed capacity (average dry weather flow) of about 3,600m3/day	Figure 22

Remark: The EP(s) not related to the Project of the First Phase of the Kwu Tung North (KTN) and Fanling North (FLN) New Development Area (NDA) Development Areas are not included in the Table.

2.4 The site boundary of the Project and all Works Contracts are shown in **Drawing No. 1**.

2.5 The required submissions and submission status under Environmental Permits are shown in **Appendix U**.

2.6 The site layout plans under concerned Environmental Permits are shown in Figures 12 - 22.

Project Organization

2.7 Different parties with different levels of involvement in the Project organisation include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- *Supervisor / Supervisor's* Representative – AECOM Asia Co. Ltd.
- Environmental Team (ET) – Wellab Limited
- Independent Environmental Checker (IEC) – Mott MacDonald Hong Kong Ltd (MottMac)

2.8 The names and contact numbers of key personnel are summarised in **Table 2.2**.

Table 2.2 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Ryan Chau	3797 5387	3547 1658
Supervisor / Supervisor's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Alan Lee	6398 5982	2680 9515
	Senior Resident Engineer	Mr. King-man Chan	9651 2635	2680 9515
Environmental Team (Wellab Limited)	Environmental Team Leader	Dr. Priscilla Choy	2898 7388	2898 7076
Independent Environmental Checker (MottMac)	Independent Environmental Checker	Mr. Thomas Chan	2828 5967	2827 1823
Contract No. ND/2019/01 Contractor (Build King – Richwell Engineering Joint Venture)	Site Agent	Mr. Ivan Leung	9640 8340	--
	Environmental Officer	Mr. Edward Tam	9287 8270	
Contract No. ND/2019/02 Contractor (Chun Wo – Kwan Lee Joint Venture.)	Site Agent	Mr. Andy Chan	3485 9780	--
	Environmental Officer	Ms. Barbara Yiu	9758 2034	
Contract No. ND/2019/03 Contractor (Sang Hing Kuly Joint Venture)	Site Agent	Mr. Tang Wing Kai	9300 7037	--
	Environmental Officer	Mr. Ken Cheung	9803 5297	
Contract No. ND/2019/04 Contractor (Daewoo – Chun Wo – Kwan Lee Joint Venture)	Site Agent	Mr. Eric Wu	9786 8630	--
	Environmental Officer	Mr. Sam Lam	6178 3179	
Contract No. ND/2019/05 Contractor (CRCC – Paul Y. Joint Venture)	Site Agent	Mr. Darvin Lo	9467 5891	--
	Environmental Manager	Mr. Pan Fong	9436 9435	
	Environmental Officer	Ms. Connie Yuen	6316 6931	
Contract No. ND/2019/06 Contractor (New Concepts Engineering Development Ltd.)	Project Manager	Mr. Joe Cheng	9861 0060	--
	Environmental Officer	Mr. Alex Choy	6360 3236	
Contract No. ND/2019/07 Contractor (China Road and Bridge Corporation)	Site Agent	Mr. Mac Chow	9169 9567	--
	Environmental Manager	Mr. K. M. Lui	5113 8223	

Summary of Construction Works Undertaken During Reporting Month

2.9 The major site activities undertaken in the reporting month are shown in **Table 2.3**.

Table 2.3 Summary Table for Major Site Activities in the Reporting Month

Contract No.	Site Activities (July 2025)
ND/2019/01	(a) Drainage works, watermain works, sheet piling and slope works in Portion 1a (b) Site formation, watermain works, ELS construction, sewage works, backfill and road works in Portion 1c (c) Site formation, construction of subway, drainage works, road works, soil nail and slope work in Portion 2 (d) HAC soil treatment and watermain works in Portion 3 (e) Site formation, watermain works and drainage works in Portion 5 (f) Backfilling, drainage works, watermain works, slope works, road works and district cooling system in Portion 6a (g) Operation of HAC soil treatment facility in Portion 6b (h) Excavation, watermain works, sewage works, road works (UU) and drainage works in Portion 7 (i) Road works, RC structure works, drainage works, watermain works, backfilling, planting, metal works, slope works and E&M works in Portion 8a (j) Ground Treatment, grouting, watermain construction and ELS construction and RC structure works in Portion 8b (k) Sheet piling, excavation, road works, drainage works, watermain works and district cooling system in Portion 9b (l) Drainage works in Portion 10b (m) Drainage works and watermain works in Portion 11b (n) Stockpile of soil in Portion 13
ND/2019/02	(a) Backfilling (b) Excavation (c) Concreting (d) Cut and Fill of Slope (e) Sheet Piling (f) Pipe Jacking (g) Pipe laying and bedding (h) Grouting
ND/2019/03	All construction activities with significant environmental impact have been substantially completed in April 2024 and all outstanding works with defect rectification have also been completed on 28 March 2025.
ND/2019/04	(a) Back Filling (b) Excavation (c) Grouting (d) Road works (e) Formwork and Scaffolding Erection (f) Rebar Fixing and ELS (g) Backfilling (h) Concreting (i) MIC

Contract No.	Site Activities (July 2025)
ND/2019/05	(a) South Team - BBI Toilet – ABWF and installation bio treatment plant were in progress. - BBI Toilet – Dwarf Wall construction in progress. - Lift LT01 – Lift installation was completed. Testing in progress. - Road D400 – Site formation in progress for TTA-469. - ADS21 PC1 – Trial pit in progress to locate the uncharted road light cable. - ADS21 PC2 – Commencement of piling works was waiting for WSD's approval. - D2-02 – Outfall construction completed. Watermain laying for fire hydrant in progress. - E2-03 – Outfall construction was in progress. - E3-01 – Removal of temporary working platform was in progress - E3-02 – Drainage system from pier to existing was completed. - E4 Retaining Wall – Stem wall was completed. Backfilling works in progress - E4 Ramp Utrough Bay 17~21 – Footings were completed. Stem walls were 70% completed. - FW56 Bay 22~25 – Footings were completed. Stem walls were in progress. - **Noise barrier NB109 and NB70** A. Pavement works along FLH Northbound was completed and TTA-456 was implemented on 20 June 2025. B. Pavement works along FLH Southbound was completed and TTA-452 was implemented on 9 July 2025. However, those pavement at NB109 Bay1-4 and NB70 Bay1-6 are temporary only due to adverse weather has affected the SRT schedule. - **Noise barrier NB69 and NB68** A. NB69 – Bay 2a stem wall was completed. Bay 1 stem wall was in progress. B. NB68 – Bay 7 footing was completed and its stem wall was in progress. - **Noise barrier NB 29 Through Bay 1-23** A. Footing is 80% completed B. Wall (exclude parapet) is 70% completed. Parapet section will cast after backfilling to formation. - **Noise barrier NB 30** A. Bay 1 to Bay 13, bay 15 to bay 20 blinding completed. B. RC from bay 1 to bay 5, & bay 16 to bay 20 completed & bay 6, 9 in progress. - **Noise barrier NB 77** A. NB77 pile cap completed, wall construction in progress. - **Sign Gantry** A. 8 out of 20 Columns fabrication were completed. Fabrication of DS21A columns is in progress. B. 3 out of 11 Mid Chords were completed. Fabrication of DS21A mid chord is in progress. C. 2 out of 11 sign gantries were completed and erected on site. D. Installation of DS20 was completed on 30 June 2025. E. Installation of FADS19 will be carried out by end of July 2025. - Fabrication of Noise Barrier – 32% of overall noise barrier columns were completed. Fabrication of NB28 noise barrier column is in progress. (b) North Team - D2-01, C1-03 & B2-03 catch pit & manhole construction in progress. B2-01 completed.

Contract No.	Site Activities (July 2025)
	- D1-01, E2-01, C1-02 & C2-01 watermain works & pillar box for viaduct completed. D1-04 in progress. - Backfilling of B2-03, B2-01, C1-01b & D2-01 in progress. - JCR: Construction of new central median & ducting works for traffic signal & road light were completed of 100%. - JCR & Tong Hang Village J/O improvement works (FS 25): slope works 98 % completed. - JCR & Tong Hang Village J/O (near bus-stop) : Ducting works for traffic signal & road light was in progress (98 % completed). - JCR near F63 –slope feature construction works completed. Street furniture in progress. - JCR resurfacing in progress (30% completed) (c) Bridges and Structures - LG launched back to C1-01, and the dismantle of LG in progress. - Installation of parapet and central median for bridge in progress - Installation of fire hydrant in progress. - Reinstate of lifting tower NF83A in progress. - Installation of movement joint C1-04a and C2-04a completed. Total 8 of 20 MJ installation completed. - Water proofing on bridge deck in progress, bridge D1, E1, C4R, C3R, C2R, C4L, C3L, C2L completed. - Asphalt paving on the deck in progress, base course of bridge D1, E1, C4R, C3R, C2R, C4L, C3L, C2L completed. - Wearing course pavement on the deck in progress. - Installation of railing and noise barrier on bridge deck in progress. - Construction of the 2nd pour concrete of B1-01 diaphragm beam and remaining Bridge B1 deck in progress. - E2 & D2 external tendon in progress.
ND/2019/06	The construction phase was completed and handed over to AFCD since 4 April 2022.
ND/2019/07	(a) Road works at Portion 1, 3 and 4 (b) C&D waste disposal at Portion 2 and 4 (c) Filling works at Portion 2 (d) Construction of site haul road at Portion 4 (e) Drainage works at Portion 1, 2, 3 and 4 (f) Sewerage works at Portion 3 and 4 (g) Construction of noise barrier at Portion 4 (h) Waterworks at Portion 1, 2, 3 and 4

Construction Programme

2.10 Copies of Contractors' construction programmes are provided in **Appendix A**.

Status of Environmental Licences, Notifications and Permits

2.11 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.4**.

Table 2.4 Status of Environmental Licences, Notifications and Permits

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
ND/2019/01	EP-466/2013/A	21/11/2013	N/A	Valid
	EP-467/2013/A	27/01/2017	N/A	Valid
	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-470/2013/A	21/11/2013	N/A	Valid
ND/2019/02	EP-469/2013	21/11/2013	N/A	Valid
ND/2019/03	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/04	EP/473/2013/A	27/01/2017	N/A	Valid
	EP/546/2017	16/11/2017	N/A	Valid
ND/2019/05	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/06	EP-475/2013/A	13/01/2017	N/A	Valid
Construction Noise Permit (CNP)				
ND/2019/01	GW-RN0540-25	23/05/2025	22/07/2025	Expired in the reporting month
	GW-RN0358-25	12/04/2025	11/08/2025	Valid
	GW-RN0086-25	19/02/2025	18/08/2025	Valid
	GW-RN0108-25	01/03/2025	31/08/2025	Valid
	GW-RN0151-25	01/04/2025	31/08/2025	Valid
	GW-RN0647-25	13/06/2025	12/09/2025	Valid
	GW-RN0276-25	16/04/2025	15/09/2025	Valid
	GW-RN0426-25	17/04/2025	16/09/2025	Valid
	GW-RN0642-25	17/06/2025	16/09/2025	Valid
	GW-RN0626-25	16/06/2025	15/10/2025	Valid
	GW-RN0666-25	12/06/2025	11/11/2025	Valid
	GW-RN0615-25	19/06/2025	18/11/2025	Valid
	GW-RN0761-25	11/07/2025	07/09/2025	Valid
	GW-RN0817-25	25/07/2025	24/09/2025	Valid
ND/2019/02	GW-RN0233-25	23/03/2025	22/07/2025	Expired in the reporting month
	GW-RN0496-25	21/05/2025	20/08/2025	Valid
	GW-RN0372-25	12/04/2025	11/09/2025	Valid
	GW-RN0664-25	15/06/2025	14/09/2025	Valid
	GW-RN0796-25	23/07/2025	22/11/2025	Valid
ND/2019/04	GW-RN0463-25	04/05/2025	03/08/2025	Valid
	GW-RN0593-25	01/06/2025	13/08/2025	Valid
	GW-RN0594-25	01/06/2025	13/08/2025	Valid
	GW-RN0595-25	01/06/2025	13/08/2025	Valid
	GW-RN0596-25	01/06/2025	13/08/2025	Valid
	GW-RW0540-25	06/06/2025	13/08/2025	Valid
	GW-RW0542-25	06/06/2025	13/08/2025	Valid
	GW-RN0663-25	22/06/2025	21/09/2025	Valid
ND/2019/05	GW-RN0179-25	01/03/2025	31/08/2025	Valid
	GW-RN0572-25	01/06/2025	31/08/2025	Valid
	GW-RN0619-25	10/06/2025	31/08/2025	Renewed to GW-RN0760-25 in the reporting month

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	GW-RN0643-25	16/06/2025	15/08/2025	Valid
	GW-RN0760-25	10/07/2025	30/09/2025	Valid
	GW-RN0735-25	01/07/2025	30/09/2025	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation				
ND/2019/01	451792	11/12/2019	N/A	Valid
	477388	02/03/2022	N/A	Valid
ND/2019/02	454012	05/03/2020	N/A	Valid
ND/2019/03	452216	24/12/2019	N/A	Valid
	452332	31/12/2019	N/A	Valid
	452333	31/12/2019	N/A	Valid
ND/2019/04	461184	23/10/2020	N/A	Valid
ND/2019/05	454323	13/03/2020	N/A	Valid
ND/2019/06	449369	24/09/2019	N/A	Valid
ND/2019/07	459393	28/08/2020	N/A	Valid
Billing Account for Disposal of Construction Waste				
ND/2019/01	7036265	17/01/2020	N/A	Valid
ND/2019/02	7036898	01/04/2020	N/A	Valid
ND/2019/03	7036378	22/01/2020	N/A	Valid
ND/2019/04	7038391	22/09/2020	N/A	Valid
ND/2019/05	7036901	01/04/2020	N/A	Valid
ND/2019/06	7035473	17/10/2019	N/A	Valid
ND/2019/07	7038309	14/09/2020	N/A	Valid
Registration of Chemical Waste Producer				
ND/2019/01	5213-545-B2578-01	10/01/2020	N/A	Valid
ND/2019/02	5213-548-C4439-01	06/05/2020	N/A	Valid
ND/2019/03	5213-623-S4231-01	14/04/2020	N/A	Valid
ND/2019/04	5211-624-D2709-01	26/11/2020	N/A	Valid
ND/2019/05	5213-625-C4464-01	20/05/2020	N/A	Valid
ND/2019/06	5213-625-N2716-01	02/10/2019	N/A	Valid
ND/2019/07	5213-625-C4498-01	21/09/2020	N/A	Valid
Effluent Discharge License under Water Pollution Control Ordinance				
ND/2019/01	WT00037191-2020	21/04/2022	28/02/2026	Valid
	WT00037204-2020	16/11/2022	28/02/2026	Valid
	WT00037412-2021	05/12/2023	30/04/2026	Valid
	WT00037564-2021	19/04/2021	30/04/2026	Valid
	WT00037886-2021	28/06/2021	30/06/2026	Valid
	WT00041311-2022	21/06/2022	30/06/2027	Valid
	WT10001848-2023	05/12/2023	31/12/2028	Valid
	WT00044860-2024	29/07/2024	31/07/2029	Valid
	WT00044814-2024	08/07/2024	31/07/2029	Valid
	WT10002972-2024	07/06/2024	30/06/2029	Valid

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	WT00046827-2025	30/06/2025	30/06/2030	Valid
	WT00046825-2025	30/06/2025	30/06/2030	Valid
	WT00046830-2025	30/06/2025	30/06/2030	Valid
	WT00046840-2025	30/06/2025	30/06/2030	Valid
ND/2019/02	WT00036584-2020	21/10/2020	31/10/2025	Valid
	WT00036952-2020	17/12/2020	31/12/2025	Valid
ND/2019/03	WT00035847-2020	12/08/2020	31/08/2025	Valid
	WT00037771-2021	08/07/2021	31/07/2026	Valid
ND/2019/04	WT00037539-2021	02/06/2022	30/04/2026	Valid
ND/2019/05	WT00042471-2022	03/11/2022	30/11/2027	Valid
ND/2019/07	WT00037526-2021	21/04/2022	31/05/2026	Valid

3 AIR QUALITY MONITORING

Monitoring Requirements

3.1 In accordance with the Updated EM&A Manual, impact 1-hour TSP and 24-hr TSP monitoring shall be conducted to monitor the air quality for the Works Contracts. **Appendix B** shows the established Action/Limit Level for the air quality monitoring works.

3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while the impact 24-hour TSP monitoring was conducted for at least once every 6 days at the designated air quality monitoring stations.

Monitoring Location

3.3 Impact air quality monitoring was conducted at the monitoring stations under the Works Contracts, as shown in **Figure 1 and Figure 2** according to Table 1.1 of Updated EM&A Manual and Baseline Air Quality Monitoring Report (KTN & FLN NDA).

Alternative Monitoring Station for KTN-DMS4

3.4 As KTN-DMS4 - Temporary structure near Fanling Highway (near Pak Shek Au) is no longer as existing ASR, air quality monitoring station should be relocated to the alternative dust monitoring location according to the updated EM&A Manual, Section 2.6.2. According to Figure 3.1 of Approved EIA report and site visits conducted in June 2022, ASR at near KTN-E70 – Temporary Structure near Fanling Highway near Pak Shek Au is considered as the most representative alternative station **KTN-DMS4(B)** for air quality monitoring for KTN-DMS4 (i.e. KTNE162).

3.5 The alternative monitoring location **KTN-DMS4(B)** is agreed by EPD on 17 August 2022. The 1-hr and 24-hrs TSP monitoring commenced starting from **24 August 2022**. **Table 3.1** describes the location of the air quality monitoring stations.

Table 3.1 Location for Air Quality Monitoring Locations

EP No.	Contract No.	Monitoring Station	Location
EP-473/2013/A	ND/2019/03	FLN-DMS1[2]	Scattered Village Houses North of Proposed Potential Ecopark
	ND/2019/04		
	ND/2019/05	FLN-DMS3[3]	House near Tong Hang
	ND/2019/03	FLN-DMS5[4]	Noble Hill
	ND/2019/04	FLN-DMS5A	Good View New Village
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	KTN-DMS4(B)[5]	Temporary Structure near Fanling Highway (near Pak Shek Au)
EP-468/2013/A	ND/2019/03		

Remarks:
[1]: Noting that construction phase air quality monitoring at the other proposed monitoring stations (e.g. planned), where access is permitted, will be conducted during construction phase of relevant works contract(s).
[2]: Since the distance between monitoring station and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05.
[3]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.
[4]: Since the distance between monitoring station and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05
[5] KTN-DMS4(B) commenced starting from 24 August 2022 as an alternative monitoring station of KTN-DMS4.

Monitoring Equipment

3.6 As the power supply for High Volume Sampler (HVS) for TSP monitoring at FLN-DMS 5A, KTN-DMS 4 and KTN-DMS 4(B) were rejected, direct reading dust meter was used to measure both 1-hour and 24-hour TSP levels:-

- The proposal for alternative monitoring equipment (i.e. direct reading dust meter) for TSP monitoring was approved by EPD according to the approved Baseline Air Quality Monitoring Report (KTN & FLN NDA); and
- Same measurement methodology (i.e. direct reading dust meter) was adopted as baseline monitoring for a reliable comparison.

3.7 The proposed use of portable direct reading dust meters was also submitted to IEC and agreement was obtained from the IEC in accordance with Section 2.4.5 of the Updated EM&A Manual.

3.8 HVS for 24-hour TSP monitoring will be adopted once secured supply of electricity become available at FLN-DMS 5A and KTN-DMS 4(B).

3.9 **Table 3.2** summarises the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2 Air Quality Monitoring Equipment

Monitoring Station	Equipment	Manufacturer	Model and Make	Quantity
FLN-DMS5 FLN-DMS5A KTN-DMS4(B)	Dust Monitor (1-hour and 24-hour TSP)	Met One Instruments	AEROCET-831	8
FLN-DMS1 FLN-DMS3	Dust Monitor (1-hour TSP)			
	HVS Sampler (TSP) (24-hour TSP)	Tisch	TISCH Model: TE-5170	2

3.10 Meteorological information extracted from "Hong Kong Observatory - Ta Kwu Ling Weather Station" was proposed as the alternative method to obtain representative wind data. For Ta Kwu Ling Weather Station, it is located nearby the Project site and situated at approximately 15m above mean sea level. The station's wind data monitoring equipment is set above the existing ground 10 meters in compliance with the general setting up requirements. Furthermore, this station also provides other meteorological information, such as humidity, rainfall, air pressure and temperature etc.

3.11 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staffs during the monitoring days.

Monitoring Parameters, Frequency and Duration

3.12 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the Works Contracts activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 3.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hour TSP	Three times/ 6 days
24-hour TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

1-hour and 24-hour TSP Air Quality Monitoring

Instrumentation

3.13 Direct reading dust meter was deployed for the air quality monitoring as shown in **Table 3.2**.

3.14 The measuring procedures of the dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

(AEROCET-831)

- Place the 1-hour dust meter at least 1.3 meters above ground.
- Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
- Press the START / STOP key to run the internal vacuum pump for 1 minute and be ready to use.
- Use the select dial to select the PM range and press the START / STOP key to start a measurement.
- Finally, push the START/STOP key to stop the measurement after 1 hour sampling.
- Information such as sampling date, time, value and site condition were recorded during the monitoring period.
- All data were recorded in the data logger for further data processing.

Maintenance/Calibration

3.15 The following maintenance/calibration was required for the direct dust meters:

- Check and calibrate the meters by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Air Quality Monitoring

Instrumentation

(TISCH Model: TE-5170)

3.16 High volume Samplers (HVS) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. Each sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

HVS Installation

3.17 The following guidelines were adopted during the installation of HVS:

- A horizontal platform with appropriate support was provided to secure the samplers against gusty wind.
- No two samplers were placed less than 2 meters apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
- No furnaces or incineration flues were nearby.
- Airflow around the sampler was unrestricted.
- The samplers were more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- Permission and access to the monitoring stations have been obtained to set up the samplers.
- A secured supply of electricity was provided to operate the samplers.

Filters Preparation

3.18 Wellab Limited (HOKLAS Registration No. HOKLAS083) is a HOKLAS accredited laboratory and responsible for the preparation of 24-hour conditioned and pre-weighed filter papers for the monitoring team.

3.19 All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not variable by more than ±3°C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

Operating/Analytical Procedures

3.20 Operating/analytical procedures for the air quality monitoring were highlighted as follows:

- Prior to the commencement of dust sampling, the flow rate of the HVS was properly set (between 1.1 m^3/min. and 1.4 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50;
- The power supply was checked to ensure the sampler worked properly;
- On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station;
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen;
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. The filter holding frame was then tightened to the filter holder

with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges;

- The shelter lid was closed and secured with the aluminum strip;
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number);
- After sampling, the filter was removed and kept in a clean and tightly sealed plastic bag. The filter paper was then returned to the HOKLAS accredited laboratory (Wellab Ltd.) for reconditioning in the humidity-controlled chamber followed by accurate weighting by an electronic balance with a readout down to 0.1mg. The elapsed time was also recorded; and
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and did not vary by more than ±3°C; the RH should be < 50% and did not vary by more than ±5%. A convenient working RH is 40%. Weighing results were returned for further analysis of TSP concentrations collected by each filter.

Maintenance/Calibration

3.21 The following maintenance/calibration was required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working conditions; and
- All HVS were calibrated (five point calibration) using Calibration Kit prior to the commencement of baseline monitoring and thereafter at bi-monthly intervals.

Results and Observations

3.22 The monitoring results for 1-hour TSP and 24-hour TSP are summarised in **Tables 3.4** and **3.5** respectively. Detailed monitoring results and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E**.

Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration ($\mu g/m^3$)		Action Level, $\mu g/m^3$	Limit Level, $\mu g/m^3$
	Average	Range		
FLN-DMS1	65.6	19.2 – 98.2	303	500
FLN-DMS3	63.0	12.2 – 96.7	301	500
FLN-DMS5	46.1	21.4 – 69.6	279	500
KTN-DMS4(B)	56.1	27.6 – 85.7	297	500

Table 3.5 Summary Table of 24-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration (µg/m³)		Action Level, µg/m³	Limit Level, µg/m³
	Average	Range		
FLN-DMS1	30.9	16.2 – 63.5	150	260
FLN-DMS3	21.4	15.1 – 28.7	165	260
FLN-DMS5A	43.6	29.9 – 57.8	153	260
KTN-DMS4(B)	48.8	32.6 – 64.1	192	260

3.23 All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.

3.24 According to our field observations, the major dust sources identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.6**:

Table 3.6 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Sources
FLN DMS1	Excavator, Concrete Mixer Truck, Dump Truck, Crane, Road Traffic
FLN-DMS3	Excavator, Road Traffic
FLN-DMS5	Crane, Excavator, Dump Truck, Road Traffic
FLN-DMS5A	Crane, Excavator, Road Traffic, Dump Truck
KTN-DMS4(B)	Excavator, Crane, Sheet Piling, Roller, Dump Truck, Road Traffic

Event and Action Plan

3.25 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

4. NOISE MONITORING

Monitoring Requirements

4.1 In accordance with the Updated EM&A Manual, construction noise monitoring shall be conducted in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}) to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station was on a weekly basis and one set of measurements between 0700 and 1900 hours on normal weekdays was conducted. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Location

4.2 Impact noise monitoring was conducted at the monitoring stations, as shown in **Figures 3** and **4** according to Table 1.1 of the Updated EM&A Manual. **Table 4.1** describes the locations of the noise monitoring stations.

Table 4.1 Location of Noise Monitoring Stations

Contract No.	Monitoring Station(s)	Location(s)
ND/2019/06	CP-FLN-NMS1[2]	Belair Monte
ND/2019/04		
ND/2019/05		
	CP-FLN-NMS2[3]	Scattered Village Houses in Tong Hang
ND/2019/01	CP-KTN-NMS2[4]	Residential Buildings at Ma Tso Lung
	CP-KTN-NMS3[5]	Fung Kong Garden
ND/2019/01	CP-KTN-NMS5	N/A
ND/2019/02	CP-KTN-NMS6	Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery

Remarks:
[1]: Noting that construction phase noise monitoring at the other proposed monitoring stations (e.g. planned), where access is permitted, will be conducted during construction phase of relevant works contract(s).
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.
[4],[5]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

Monitoring Equipment

4.3 Integrating Sound Level Meters were used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarises the noise monitoring equipment used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Manufacturer	Model	Quantity
Sound Level Meter	BSWA	BSWA 308	3
Acoustical Calibrator	SVANTEK	SV30A	3

Monitoring Parameters, Frequency and Duration

4.4 **Table 4.3** summarises the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

Contract No.	Monitoring Stations	Parameters[2]	Duration	Frequency	Measurement
ND/2019/06	CP-FLN-NMS1[3]	$L_{10(30\ min.)}$ dB(A) $L_{90(30\ min.)}$ dB(A) $L_{eq(30\ min.)}$dB(A) (as six consecutive $L_{eq,\ 5min}$ readings)	0700-1900 hours on normal weekdays	Once per week	Façade
ND/2019/04					
ND/2019/05	CP-FLN-NMS2[4]				
ND/2019/01	CP-KTN NMS2[5]				Free-field[1]
	CP-KTN NMS3[6]				
ND/2019/01	CP-KTN NMS5				
ND/2019/02	CP-KTN-NMS6				Façade

Remarks:

[1]: Correction of +3dB (A) for free-field measurement.

[2]: A-weighted equivalent continuous sound pressure level (L_{eq}). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10}. L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

[3]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

[4]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.

[5],[6]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

Monitoring Methodology and QA/QC Procedures

- The microphone head of the sound level meter was positioned at 1m from the exterior of the noise sensitive I and lowered sufficiently so that the building's external wall acted as a reflecting surface;
- The battery condition was checked to ensure the correct functioning of the meter;
- Parameters such as frequency weighting, time weighting and measurement time were set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - time measurement : L_{eq}(30 min.) dB(A) (as six consecutive $L_{eq,\ 5min}$ readings) during non-restricted hours (i.e. 0700-1900 hours on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment;
- During the monitoring period, the values of L_{eq}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were also recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation records during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

4.5 The microphone heads of the sound level meters and calibrators were cleaned with a soft cloth at quarterly intervals.

4.6 The sound level meters and calibrators were checked and calibrated at yearly intervals.

4.7 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

4.8 The noise monitoring results are summarised in **Table 4.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix F**. The weather information for the reporting month is summarised in **Appendix M.**

Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month

Contract No.	Monitoring Station	Noise Level Leq (30 min), dB(A)	Baseline Level, dB(A)	Limit Level, dB(A)
ND/2019/06	CP-FLN-NMS1[1]	66.3 – 68.2	69.9	75
ND/2019/04				
ND/2019/05				
	CP-FLN-NMS2[2]	55.6 – 65.1	59.6	
ND/2019/01	CP-KTN-NMS2[3]	48.5 – 58.6	58.6	
	CP-KTN-NMS3[4]	49.0 – 61.0	51.6	
ND/2019/01	CP-KTN-NMS5	52.4 – 62.2	57.2	
ND/2019/02	CP-KTN-NMS6	57.3 – 66.5	55.1	

Remarks:
[1]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3],[4]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

4.9 All noise monitoring was conducted as scheduled in the reporting month. One complaint on construction noise were received during the reporting month, therefore One Action Level exceedance was recorded. No Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix O**.

4.10 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Contract No.	Monitoring Station	Location	Major Noise Source
ND/2019/06	CP-FLN-NMS1[1]	Belair Monte (Existing)	Road Traffic Noise, Excavator, Crane, Dump Truck
ND/2019/04			
ND/2019/05	CP-FLN-NMS2[2]	Scattered Village House in Tong Hang (Existing)	Road Traffic Noise, Excavator
ND/2019/01	CP-KTN-NMS2[3]	Residential Buildings at Ma Tso Lung (Existing)	Road Traffic Noise, Crane, Roller, Dump Truck, Excavator
ND/2019/01	CP-KTN-NMS3[4]	Fung Kong Garden (Existing)	Road Traffic Noise
ND/2019/01	CP-KTN-NMS5	N/A	Dump Truck, Excavator, Generator, Road Traffic Noise
ND/2019/02	CP-KTN-NMS6	Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)	Road Traffic Noise, Excavator, Dump Truck

Remarks:
[1]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3],[4]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Event and Action Plan

4.11 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

5. WATER QUALITY MONITORING

Monitoring Requirements

5.1 In accordance with the Updated EM&A Manual, impact water quality monitoring shall be carried out three days per week at all the designated monitoring stations during the construction period. The measurement periods are during the construction of channel specified in Table 4.1 of the Updated EM&A Manual. The interval between two sets of monitoring shall not be less than 36 hours.

5.2 Replicate in-situ measurements of Dissolved Oxygen (DO), temperature, turbidity, pH, Suspended Solids (SS) and samples for Suspended Solids (SS), ammonia nitrogen, unionized ammonia, nitrate nitrogen and orthophosphate from each independent sampling event were collected to ensure a robust statistically interpretable database.

5.3 **Appendix B** shows the established Action and Limit Levels for the water quality monitoring work according to the Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA).

Monitoring Parameters, Frequency

5.4 **Table 5.1** summarises the monitoring parameters, monitoring periods and frequencies of the water quality monitoring.

Table 5.1 Water Quality Monitoring Parameters and Frequency

Parameters, unit	Depth	Frequency
• Temperature(°C) • pH(pH unit) • turbidity (NTU) • water depth (m) • salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) • Ammonia Nitrogen (NH_3-N) (mg NH_3-N/L) • Unionized Ammonia (UIA) (mg/L) • Nitrate-nitrogen (NO_3-N) (mg NO_3^--N/L) • Ortho-phosphate (PO_4) (mg PO_4^{3-}-P/L)	• 3 water depths: 1m below water surface, mid-depth and 1m above river bed. • If the water depth was less than 3m, mid-depth sampling only. • If water depth was less than 6m, mid-depth may be omitted.	3 days per week during construction of channel

Results and Observations

5.5 According to Section 5.6.1.2 of the approved EIA Report, the potential water quality impact during construction is due to the alternation of natural streams (i.e. channelization of Ma Tso Lung Stream and Siu Hang San Tsuen Stream) as these two streams are the ecologically important streams.

5.6 No construction of channel was carried out at Ma Tso Lung Stream and Siu Hang San Tsuen Stream during the reporting month. Therefore, no water quality monitoring was conducted.

Additional Water Quality Monitoring

Monitoring Requirements

5.7 Additional Water Quality Monitoring shall be carried out at River Beas, River Indus and near Siu Hang San Tsuen Stream three days per week at all designated monitoring stations during the construction period. The measurement period are during the construction site drainage along River Beas, construction of footbridge across River Beas and during construction of bridge across River Indus.

5.8 Replicate in-situ measurement and samples from each independent sampling event were collected to ensure a robust statistically interpretable database. DO, temperature, turbidity and pH were measured in-situ whereas SS and arsenic were determined by an accredited laboratory. Other relevant data, including monitoring location / position, time, water depth, weather conditions and any special phenomena or work underway at the construction site were recorded.

5.9 For all the monitoring stations, sampling were taken at 3 water depths, namely 1m below the water surface, mid depth and 1m above the river bed. For stations that were less than 3m in depth, only the mid depth sample was taken. Should the water depth was less than 6m, in which case the mid-depth station may have been omitted. The interval between two sampling surveys was not less than 36 hours.

5.10 **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

5.11 Additional impact water quality monitoring was conducted at 6 monitoring stations (SYR-CS1, SYR-IS1, NTR-CS1, NTR-IS1, SHST-IS2, MWR-IS3) which are summarised in **Table 5.2**. The location of monitoring stations is shown in **Figures 5** and **6**.

Table 5.2 Additional Water Quality Monitoring Stations

Station	Description	Locations	Measurement Periods
River Beas			
SYR-CS1	Control Station	Upstream of river	During the construction site drainage along River Beas and construction of the footbridge across River Beas
SYR-IS1	Impact Station	Downstream of river	
River Indus and near Siu Hang San Tsuen Stream			
NTR-CS1	Control Station	Upstream of river	During construction of the bridge across River Indus
NTR-IS1	Impact Station	Downstream of river	
SHST-IS2	Impact Station	Water sensitive receiver at near Siu Hang San Tsuen Stream	
MWR-IS3	Impact Station	Water sensitive receiver at near Ma Wat River	

Monitoring Equipment

Instrumentation

5.12 Multi-parameter meters (Model YSI EXO) were used to measure DO, turbidity, salinity, pH and temperature.

Dissolved Oxygen (DO) and Temperature Measuring Equipment

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

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

5.14 The equipment had a membrane electrode with automatic temperature compensation complete with a cable.

5.15 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.

5.16 Salinity compensation was built-in in the DO equipment. *In-situ* salinity was measured to calibrate the DO equipment prior to each DO measurement.

Turbidity

5.17 Turbidity was measured *in situ* by using the nephelometric method. The instrument was portable and weatherproof using a DC power sources complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU. The probe cable was not less than 25m in length. The meter was calibrated in order to establish the relationship between NTU units and the levels of Suspended Solids.

Salinity

5.18 A portable salinometer capable of recording salinity within the range of 0-40 parts per thousand (ppt) was used for salinity measurement.

Water Depth Detector

5.19 A portable, battery-operated and hand held echo sounder was used for the determination of water depth at each designated monitoring station.

pH

5.20 The instrument consisted of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It was readable to 0.1pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

Water Sampling for Laboratory Analysis

5.21 A water sampler, consisting of a transparent Polyvinyl Chloride (PVC) of a capacity of not less than two litres which can be effectively sealed with cups at both ends was used. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth. In addition, a sampling cup attached to a fixed or extendable rod was also used for sampling at the monitoring stations with swallow water.

Sample Container and Storage

5.22 Following collection, water samples for laboratory analysis were stored in high density polyethylene bottles with appropriate preservatives added, packed in the ice (cooled to 4ºC without being frozen). The samples were delivered to WELLAB Limited (HOKLAS Registration No. HOKLAS083) and analysed as soon as possible after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.

Calibration of In Situ Instruments

5.23 The pH meter, DO meter and turbidimeter were checked and calibrated before use. DO meter and turbidimeter were certified by WELLAB Limited before use and subsequently re-calibrated at quarterly basis throughout all stage of water quality monitoring programme. Response of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring station.

5.24 For on-site calibration of field equipment (Multi-parameter Water Quality System), the standard BS 1427:2009 “Guide to on-site test methods for analysis of waters” was observed.

Back-up Equipment

5.25 Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also be made available so that monitoring could proceed uninterrupted even when some equipment was under maintenance, calibration, etc.

5.26 **Table 5.3** summarises the equipment used in the water quality monitoring programme. Copies of the calibration certificates of the multi-parameter water quality systems are shown in **Appendix C**.

Table 5.3 Water Quality Monitoring Equipment

Equipment	Model and Make	Qty.
Water sampler and sampling cup	A 2-Litre transparent PVC cylinder with latex cups at both ends and sampling cup for monitoring stations with swallow water	1
Sonar Water Depth Detector	Garmin Striker plus 4	1
Multi-parameter Water Quality System	YSI EXO 1	2

Monitoring Parameters and Frequency

5.27 **Table 5.4** summarises the monitoring parameters and frequencies of the additional water quality monitoring. The water quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 5.4 Additional Water Quality Monitoring Parameters and Frequency

Monitoring Station(s)		Parameters, unit	Depth	Frequency
River Beas	SYR-CS1 SYR-IS1	• Temperature (°C) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Suspended Solids (SS) (mg/L) • Arsenic (As) (µg/L)	• 3 water depths: 1m below water surface, mid-depth and 1m above river bed. • If the water depth was less than 3m, mid-depth sampling only. • If water depth was less than 6m, mid-depth might be omitted.	3 days per week
River Indus and near Siu Hang San Tsuen Stream	NTR-CS1 NTR-IS1 SHST-IS2 MWR-IS3	• Temperature (°C) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Suspended Solids (SS) (mg/L)		

5.28 Monitoring location and position, time, sampling depth, weather conditions and any special phenomena or work underway nearby was also recorded.

Monitoring Methodology

Instrumentation

5.29 Multi-parameter meters (Model YSI EXO) were used to measure DO, turbidity, salinity, pH and temperature.

Operating/Analytical Procedures

5.30 At each measurement, two consecutive measurements of DO concentration, DO saturation, salinity, turbidity, pH and temperature were taken. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.

Laboratory Analytical Methods

5.31 Duplicate samples from each independent sampling event were required for all parameters. Analysis of suspended solids and arsenic were carried out by WELLAB Ltd. and comprehensive quality assurance and control procedures were in place in order to ensure the quality and consistency in results. The analysis methods and limits of reporting are provided in **Table 5.5.**

Table 5.5 Method for Laboratory Analysis for Water Samples

Determinant	Proposed Method	Limit of Reporting
Total Suspend Solids (SS)	APHA 17ed 2540 D	2.5 mg/L
Arsenic (As)	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

QA/QC Requirements

Decontamination Procedures

5.32 Water sampling equipment used during the course of the monitoring process was decontaminated by manual washing and rinsed with distilled water after each sampling event. All of the disposal equipment was discarded after the sampling.

Sampling Management and Supervision

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

Quality Control Measures for Sample Testing

5.34 The samples testing and following QC programmes were performed by WELLAB Ltd. for every batch of 20 samples:

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

Results and Observations

5.35 All additional water quality monitoring was conducted as scheduled in the reporting month. The water quality monitoring schedule for this reporting month is shown in **Appendix D**.

5.36 The monitoring results and graphical presentation of additional water quality monitoring are shown in **Appendix G**.

5.37 No Action/Limit Level exceedance was recorded in the reporting month. The summary of exceedance record in the reporting month is shown in **Appendix O**.

Event and Action Plan

5.38 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

6. LAND CONTAMINATION (AMBIENT ARSENIC MONITORING)

Monitoring Requirements

6.1 According to Section 7.5 of the updated EM&A Manual, an ambient arsenic monitoring is required to be conducted in KTN during the clean-up processes of arsenic containing soil and the construction phase.

6.2 The Respirable Suspended Particulate (RSP, or PM10) was measured by High Volume Sampler (HVS) equipped with PM10 selector following the "Reference Method for the Determination of Particulate Matter as PM10 in the Atmosphere" Part 50 Chapter 1 Appendix J, Title 40 of the Code of Federal Regulations of the USEPA.

6.3 The Dust-laden air was drawn through PM10 HVS fitted with a conditioned pre-weighting filter paper, at a controlled rate. After sampling for 24-hour (details on measurement period are provided in Section 9.5.5), the filter paper with retained PM10 particulates was collected and returned to the laboratory for drying in a desiccators followed by accurate weighting. 24-hour average RSP levels were calculated from the ratio of the mass of PM10 particulates retained on the filter paper to the total volume of air sampled.

6.4 The weighted filter paper was prepared for arsenic testing through a "Hot Acid Extraction Procedure". The extracted material was tested for arsenic by using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS). The extraction and testing was referenced to the following methods:

- Compendium Method 1O-3.1 Selection, Preparation and Extraction of Filter Material, Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999; and
- Compendium Method 1O-3.5 determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS., Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999.

Monitoring Location

6.5 Ambient arsenic monitoring was conducted at the monitoring station(s) under the Work Contract(s), as shown in **Figure 5**. **Table 6.1** describes the location of the ambient arsenic monitoring station.

Table 6.1 Location of Ambient Arsenic Monitoring station

EP. No	Contract No.	Monitoring Stations	Location
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	KTN-DMS-4A[1]	Temporary Structure at Pak Shek Au
EP-468/2013/A	ND/2019/03		

Remark:
[1]: Monitoring at the original location of KTN-DMS-4 (originally proposed in the approved EM&A Manual) was denied as there was no electricity supply. An alternative location (KTN-DMS-4A) was proposed.

Monitoring Equipment

6.6 **Table 6.2** summarises the equipment used in the ambient arsenic monitoring. Copies of calibration certificates are attached in **Appendix C**.

Table 6.2 Ambient Arsenic Monitoring Equipment

Monitoring Stations	Equipment	Model and Make	Quantity
KTN-DMS-4A	Calibrator	TISCH Model: TE-5025A	1
	HVS Sampler (RSP)	TISCH Model: TE-6070X	1

Monitoring Parameters, Frequency and Duration

6.7 **Table 6.3** summarises the monitoring parameters and frequencies of ambient arsenic during the clean-up processes of arsenic-containing soil and construction. The ambient arsenic monitoring schedule for the reporting month is shown in **Appendix D**.

Table 6.3 Impact Ambient Arsenic Monitoring Parameters, Frequency and Duration

Parameters	Frequency
24-hr RSP (Ambient Arsenic)	Once/ 6 days

Monitoring Methodology and QA/QC Procedure

24-hour RSP Monitoring

Instrumentation

6.8 High volume samplers (HVS) (GMW PM10 (TE6070X)) complete with appropriate sampling inlets was employed for 24-hour RSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

6.9 The following guidelines were adopted during the installation of HVS:

- a horizontal platform with appropriate support to secure the samplers against gusty wind was provided;
- no two samplers was placed less than 2 meters apart;
- the distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler;
- a minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samplers;
- a minimum of 2 meters separation from any supporting structure, measured horizontally was required;
- no furnace or incinerator flue was nearby;
- airflow around the sampler was unrestricted;
- the sampler was more than 20 meters from the dripline;
- any wire fence and gate, to protect the sampler, were not cause any obstruction during monitoring;
- permission was obtained to set up the samplers and to obtain access to the monitoring stations; and
- a secured supply of electricity was needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m^3/min. and 1.4 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. The filter holding frame was then tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the Wellab Ltd. for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature was between 25°C and 30°C and did not vary by more than ±3°C; the relative humidity (RH) was < 50% and did not vary by more than ±5%. A convenient working RH was 40%. Weighing results were further analysis of RSP concentrations collected by each filter.

Maintenance/Calibration

6.10 The following maintenance/calibration was required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply were in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the ambient arsenic monitoring.

Laboratory Measurement / Analysis

6.11 Quartz filters of size 8" x 10" were labelled before sampling. A HOKLAS accredited laboratory, Wellab Ltd., was responsible for the preparation of 24-hour conditioned and pre-weighed filter papers for the monitoring team. The balance for weighting filter paper was regularly calibrated against a traceable standard.

6.12 All filters, which were prepared by Wellab Ltd., were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

6.13 Wellab Ltd. (HOKLAS Registration No. HOKLAS083), was responsible for the extraction and testing procedure for Arsenic and comprehensive quality assurance and quality control programmes were conducted.

Results and Observations

6.14 The ambient arsenic monitoring results are summarised in **Table 6.4**. Detailed monitoring results and test report are shown in **Appendix E**.

Table 6.4 Summary Table of 24-hour RSP Monitoring Results (Ambient Arsenic) during the Reporting Month

Monitoring Date	Monitoring Station	Concentration (ng/m^3)	Action Level (ng/m^3)	Limit Level, (ng/m^3)
03/07/2025	KTN-DMS4(A)	4.33	9.36	11.7
09/07/2025		4.01		
15/07/2025		5.51		
21/07/2025		3.64		
25/07/2025		4.01		
31/07/2025		4.53		

6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, 486.58m^3 of arsenic soil transported to soil treatment plant and 0m^3 treated. No Action/Limit Level exceedances were recorded.

Event and Action Plan

6.16 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

7. LANDFILL GAS MONITORING

Monitoring Requirement

7.1 In accordance with the updated EM&A Manual, monitoring of landfill gas (LFG) is required for the construction works within the Ma Tso Lung Landfill (MTLL, close to KTN NDA) during the construction phase. This section presents the results of landfill gas measurements performed by the Contractor. **Appendix B** shows the Limit Levels for the monitoring works.

7.2 The MTLL is situated in the vicinity of the KTN NDA. A portion of the development falls within the MTLL and its 250m Consultation Zone.

Monitoring Parameters and Frequency

7.3 Monitoring parameters for Landfill gas monitoring include Methane, Carbon dioxide and Oxygen.

7.4 According to the mitigation measures of the updated EM&A Manual, measurements of the following frequencies should be carried out according to the monitoring requirements and procedures specified in Paragraphs 8.23 to 8.28 of EPD's Guidance Note, "LANDFILL GAS HAZARD ASSESSMENT GUIDANCE NOTE".

7.5 The frequency of monitoring of LFG was made reference to the updated EM&A Manual - Monitoring of any LFG which may be migrated to the site should be undertaken during construction of the infrastructure and the development within the Consultation Zone and within MTLL when the works involve confined spaces. Routine gas monitoring should be undertaken during groundwork construction and in all excavations. Monthly gas monitoring should also be conducted for set up on site such as offices, stores etc.

Monitoring Locations

7.6 Monitoring of oxygen, methane and carbon dioxide was performed for the construction of infrastructure and the development within the Consultation Zone and within MTLL when the works involved confined spaces. In this reporting month, the area required to be monitored for landfill gas are shown below and **Figure 8** shows the landfill gas monitoring locations.

- Excavation Locations: Portion 6b
- Manholes and Chambers: N/A
- Relocation of monitoring wells: N/A
- Any other Confined Spaces: Containers in Portion 6b

Monitoring Equipment

7.7 **Table 7.1** summarises the equipment employed by the Contractor for the landfill gas monitoring.

Table 7.1 Landfill Gas Monitoring Equipment

Equipment	Model and Make	Quantity
Landfill Gas Analyser	Geotech / GA5000 (Serial No./ Equipment No.: G501744)	1

Results and Observations

7.8 In the reporting month, landfill gas monitoring was carried out by the Contractor on 1 occasion at 6 monitoring stations. No Limit Level exceedance for landfill gas monitoring was recorded in the reporting month. The monitoring results are provided in **Appendix J**. Copies of calibration certificates are attached in **Appendix C**.

Event and Action Plan

7.9 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** would be carried out.

8. BUILT HERITAGE MONITORING

Monitoring Requirement

8.1 In accordance with the updated EM&A Manual, baseline condition survey and baseline vibration impact assessment shall be conducted for identified built heritage prior to the commencement of construction works. Baseline condition survey and baseline vibration impact assessment shall be conducted by a qualified building surveyor or qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s and 15mm/s could be adopted for graded historical buildings and historical buildings respectively) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction phase to ensure the construction performance meets the vibration standard stated in the EIA report.

8.2 According to the condition survey report from cultural heritage condition survey for Fanling Bypass Eastern Section under EP-473/2013/A, a vibration monitoring plan was proposed for the surveyed cultural heritage based on the Buildings Department's Practice Note (PNAP) APP-137. For Castle Peak Road Diversion under EP-466/2013/A, Kwu Tung North New Development Area Road D1 to D5 under EP-468/2013/A, a vibration monitoring plan was proposed for the surveyed cultural heritage, the Alert/Alarm/Action (3As) levels was adopted as recommended by the Antiquities and Monuments Office (AMO). This section presents the results of built heritage monitoring performed by the Contractor according to the proposed monitoring plan in baseline condition survey report. **Appendix B** shows the Limit Levels for the monitoring works.

Monitoring Location

8.3 In the reporting month, no construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works. The location of the construction vibration monitoring stations was summarised in **Table 8.1** and shown in **Appendix K**.

Table 8.1 Location of Construction Vibration Monitoring

EP. No	Contract No.	Monitoring Station (s)	Nature of Cultural Heritage	Location (s)
NIL	NIL	NIL	NIL	NIL

Monitoring Parameters and Frequency

8.4 **Table 8.2** summarises the vibration monitoring plan for surveyed cultural heritage under the Works Contracts. Vibration monitoring was conducted for surveyed built heritage when pile driving operation was conducted within the assessment area of construction works.

Table 8.2 Vibration Monitoring Plan

EP. No	Contract No.	Monitoring Stations	Distance with Construction Works	Monitoring Plan
NIL	NIL	NIL	Within 50m	Daily assessment is required
			Within 75m	Bi-daily assessment is required
			Within 100m	Weekly assessment is required

Remark:
[1] Baseline condition survey was conducted for built heritage features at G202, G203, G303, G308, HKT03 and KT57 under EP-468/2013/A, also HFL08, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL31 and FL33 under ND/2019/04, and HFL05, FL02, FL04, FL24, FL27 and

FL36 under ND/2019/05 for EP-473/2013/A. As G202, G203, G303, G308, HKT03, KT57, HFL05, HFL08, FL02, FL04, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL24, FL27, FL31, FL33 and FL36 were not within the assessment area of the related construction work, no construction vibration monitoring was conducted for the built heritage in the reporting month.

8.5 The construction vibration monitoring is planned to be conducted throughout each event of the pile driving operation on daily / bi-daily / weekly basis. The effect of ground-borne vibration from piling works on the surveyed built heritage was assessed by the maximum peak particle velocity (ppv), which was obtained from the maximum value of measurement of all pile driving operation events.

Monitoring Equipment

8.6 No copies of calibration certificates of the monitoring equipment employed by the Contractor of the construction vibration monitoring are attached in **Appendix C** since no vibration monitoring was conducted in the reporting period.

Results and Observations

8.7 In the reporting month, no construction vibration monitoring was carried out by the Contractor for the built heritage features when no pile driving operation was conducted within 50m / 75m / 100m respectively. No Limit Level exceedance for construction vibration monitoring was recorded in the reporting month. The monitoring results, if any, are provided in **Appendix K**.

Event and Action Plan

8.8 **Table 8.3** summarises the vibration limits for construction vibration monitoring for surveyed cultural heritage under **ND/2019/04** and **ND/2019/05**, based on the Building Department's Practice Note (PNAP APP-137).

Table 8.3 Vibration Limits for Construction Vibration Monitoring (PNAP APP-137)

Type of Building	Guide Values of Maximum ppv* (mm/Sec)	
	Transient Vibration	Continuous Vibration
Vibration-sensitive / dilapidated buildings#	7.5	3.0
Declared monuments/ Historical structures	3.0	

Remarks:
* peak particle velocity
# as cultural heritages are sensitive receivers, vibration monitoring should be classified as vibration-sensitive

8.9 **Table 8.4** summarises the vibration limits for construction vibration monitoring for surveyed cultural heritage under **ND/2019/02**, based on the Alert/Alarm/Action (3As) levels as recommended by the Antiquities and Monuments Office (AMO).

Table 8.4 Vibration Limits for Construction Vibration Monitoring (3As)

Buildings to be monitored	Guide Values (mm/Sec)		
	Alert	Alarm	Action
Vibration (ppv*)	5	6	7.5

Remarks:
* peak particle velocity

8.10 If any exceedance of limits is found or damage to either structural or non-structural elements of the historic buildings is identified, the construction works should be stopped immediately and structural engineer's advices should be sought for any remedial work.

9 ECOLOGICAL MONITORING

Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, Shek Sheung River and Long Valley

Monitoring Requirements and Protocol

9.1 As required under Section 12.3.2.5 of the Updated EM&A Manual, where development under the NDAs project is undertaken within 200m (the maximum distance at which it is predicted there may be some disturbance, and hence a reduction in numbers of large waterbirds) of Sheung Yue River and Long Valley, weekly transect at both high and low tides should be followed (It is considered high tide when the tidal levels are above 1.5m and low tide when the tidal levels are below 1.5m at Tsim Bei Tsui Station).

9.2 The purpose of the survey is to identify and enumerate all bird species utilizing the river channels and Long Valley Nature Park (LVNP) and identify any sources of actual or potential disturbance to birds due to construction activities throughout the construction period according to the methodology specified in Table 12.1 in the Updated EM&A Manual.

9.3 Monitoring in Long Valley followed the methodology adopted by the regular HKBWS bird monitoring programme in order to obtain comparable results and a complete coverage of the area in the shortest possible time.

Monitoring Frequency

9.4 High tide and low tide avifauna monitoring was required to be carried out on a weekly basis. Additional night-time avifauna monitoring in Long Valley was required to be carried out twice monthly from September to April only. No night-time avifauna monitoring in Long Valley were carried out in the reporting month.

Date of avifauna monitoring: 3, 4, 10, 11, 17, 18, 22, 23, 29 and 31 July 2025

Monitoring Location

9.5 The avifauna monitoring was carried out at Ng Tung River, Sheung Yue River and Long Valley in the reporting month according to the construction programme. The transect routes in the reporting month were as follows:

- T1. Ng Tung River
- T2. Ng Tung River
- T3. Sheung Yue River
- T5. Long Valley

9.6 As the sensitive receivers (large waterbirds) were easily visible, the transect route only needed to follow one bank of the rivers.

9.7 The location of Transects T1, T2, T3 and T5 is shown in **Figure 9** for reference.

Monitoring Parameters

9.8 The monitoring parameters and survey methodology for each transect are described below:

- Abundance of birds
- Types of habitat of which birds in use
- Notable bird behaviours such as roosting, feeding, nesting and presence of juveniles
- Birds heard through birdcalls that could not be located were marked as "heard", while birds flying over the survey area were marked as "flight". Species of conservation significance were specified.

9.9 Other information at the time of survey such as weather condition, tidal condition, tide level and noticeable natural or anthropogenic activities were documented.

9.10 For Avifauna survey, Ornithological nomenclature would make reference to The Avifauna of Hong Kong (Carey *et al*. 2001), The Birds of Hong Kong and South China (Viney *et al*. 2005), and the most recent updated list from other sources (e.g. Hong Kong Bird Watching Society).

Monitoring Results

9.11 In total, 45 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 19 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices L1i and L1j** respectively.

9.12 Among the four transects, transect T5 had a higher species diversity and abundance due to its diverse habitat types within Long Valley. Species such as *Ardeola bacchus* and *Egretta garzetta* were commonly found roosting and foraging at wetland habitats such as agricultural lands and shallow water habitats.

9.13 Along transect T5 in Long Valley, species with conservation interest such as *Himantopus himantopus*, which is a passage migrant, was commonly observed in shallow water habitats. Juvenile *Amaurornis phoenicurus* was observed in the reporting month. Greater Painted-Snipe *Rostratula benghalensis* of Local Concern was observed in shallow water habitat in the reporting month.

9.14 All outstanding works with defect rectification under the ND/2019/03 have been completed on 28 March 2025. Therefore, no site works were observed in T5 in the reporting month.

9.15 Transect T3 was conducted along Sheung Yue River. Bird species such as *Ardeola bacchus, Ardea alba* and *Egretta garzetta* were commonly observed feeding and roosting on the river bank and river bed. Construction works were observed beside Sheung Yue River.

9.16 Transects T1 and T2 are located at Ng Tung River. *Ardeola bacchus, Ardea alba* and *Egretta garzetta* were also commonly found feeding and roosting along the Ng Tung River. Fishing activities were observed at both T1 and T2.

9.17 Avifauna monitoring in construction phase was conducted during the reporting month and the detailed results are attached in **Appendix L1**.

9.18 **Table 9.1** summarises the avifauna monitoring results during the reporting month.

Table 9.1 Summary Table of Avifauna Monitoring Results to Corresponding Action and Limit Levels.

Monitoring Parameter	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
Mean abundance of large water birds* using Ng Tung River, Sheung Yue River and Shek Sheung River	82	12	9	6
Mean abundance of *Ardeola bacchus* using Ng Tung River, Sheung Yue River and Shek Sheung River	19	9	6	5
Mean Abundance of Bird recorded in LVNP	569	487	341	244
Mean Abundance of *Ardeola bacchus* recorded in LVNP	24	23	16	12
Environmental disturbance and damage from activities in LVNP	-	-	Activity likely to cause unacceptable environmental disturbance or damage noted in LVNP.	Activity causing unacceptable environmental disturbance or damage noted in LVNP.

*Note
Large Waterbirds includes:
Ardea alba, *Ardea cinerea*, *Egretta eulophotes*, *Egretta garzetta*, *Ardea intermedia* and *Phalacrocorax carbo*

9.19 No Action or Limit Level exceedance in avifauna monitoring was recorded during the reporting month.

Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream, and Long Valley

Monitoring Requirements and Protocol

9.20 As required under Section 12.3.2.14 of the Updated EM&A Manual, aquatic faunal monitoring should be carried out during the construction phase.

9.21 Larger organisms such as fish should be monitored by direct counting, while kick-netting and sweep-netting should be used for invertebrate sampling. There should be three replicates for invertebrate sampling at each sampling point. For kick-netting, the net should be placed with the opening facing the water current, and the substrate should be disturbed by kicking to dislodge organisms from the stream bed. Sweep-netting should be conducted when kick-netting is not feasible, such as in area with no water current. Small organisms that could not

be identified with naked eye should be brought to the laboratory for identification under the dissecting microscope.

Monitoring Frequency

9.22 Quantitative aquatic fauna replicate surveys of stream fauna was required to be carried out on a monthly basis only during wet season. Three replicates for invertebrates sampling and direct counting of fish fauna should be performed respectively.

Monitoring Location

9.23 During wet season, the monitoring locations required to be carried out in Ma Tso Lung Stream are as follow:

- MS_01
- MS_02
- MS_03
- MS_04
- MS_05
- MS_06
- MS_07
- MS_08
- MS_09
- MS_10
- MS_11
- MS_12
- MS_13
- MS_14
- MS_15

9.24 The location of monitoring stations is shown in **Figure 10** for reference.

Monitoring Parameters

9.25 The monitoring parameters and survey methodology for each monitoring station are described below:

- Species composition
- Abundance
- Distribution for invertebrates and fish fauna
- Species of conservation significance would be specified

9.26 Other information at the time of survey such as weather conditions and noticeable natural or anthropogenic activities were recorded.

Monitoring Status

9.27 According to the Updated EM&A Manual, quantitative aquatic fauna replicate surveys of stream fauna is required to be carried out on monthly basis during wet season.

9.28 In the survey of aquatic fauna, a total of 18 aquatic invertebrate species were recorded in Ma Tso Lung Stream and Siu Hang San Tsuen Stream. There were 4 fish species recorded in the reporting month. One introduced species of conservation importance was also recorded, which is *Oreochromis mossambicus*.

9.29 For the monitoring on 15th July 2025, two monitoring stations, MS_01 & MS_05, were found dried-up. No aquatic invertebrate nor fish species was recorded in those stations.

9.30 Aquatic faunal monitoring in construction phase was conducted during the reporting month and the results are attached in **Appendices L2 to L3.**

9.31 **Table 9.2 and Table 9.3** summarises the aquatic monitoring results during the reporting month.

Table 9.2 Summary Table of Aquatic Macroinvertebrates Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in Stations: MS_01 - MS_15	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
MS_01	0	0	NA	NA
MS_02 & MS_03	4	2	NA	1
MS_04, MS_06 & MS_07	5	1	NA	NA
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	5	2	NA	1
MS_11	1	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	3	1	NA	NA
MS_15	1	1	NA	NA

Table 9.3 Summary Table of Fish Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in Stations: MS_01 - MS_15	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
MS_01	0	0	NA	NA
MS_02 & MS_03	0	1	NA	NA
MS_04, MS_06 & MS_07	0	1	NA	NA
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	0	0	NA	NA
MS_11	0	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	0	1	NA	NA
MS_15	0	0	NA	NA

9.32 No Action / Limit Level exceedance was recorded during the reporting month during monitoring of aquatic fauna.

Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution

Monitoring Requirements and Protocol

9.33 As required under Section 12.3.2.17 of the Updated EM&A Manual, monitoring of measures to minimise impacts should be carried out during the construction phase.

9.34 The purpose of survey is to monitor the effectiveness of measures to minimise impacts on ecologically sensitive habitats from disturbance and pollution by standard faunal transect surveys.

Mammal survey

9.35 Mammal survey should be performed during both day and night times, in areas along the transect routes which may potentially be utilized by terrestrial mammals. Field signs such as droppings, footprints, diggings and burrows left by larger terrestrial mammals should be observed. Mammals directly observed should be recorded, and identification should be made as accurate as possible form the field signs observed.

9.36 Bat survey should be conducted along the transect routes shortly after sunset, with the use of a bat detector to record the echolocation calls. The relative abundance of the species encountered should be estimated with reference to the baseline monitoring results, i.e. using a scale from one (species recorded within transect routes) to three (dominant species within transect routes), for comparison between baseline results and the current monitoring results. Nomenclature of mammal should be based on Shek (2006).

Herpetofauna survey (Amphibians and Reptiles)

9.37 Both day-time and night-time amphibian surveys should be conducted whenever possible following or during periods of rainfall, focusing on areas suitable for amphibians (e.g. forest, shrublands, grasslands, streams, ponds, marshes, etc.). Calling amphibians should be recorded, supplemented by visual observation of eggs, tadpoles, adult frogs, and toads.

9.38 Active searching of appropriate microhabitats such as stones, pond bunds, crevices and leaf debris should be performed mainly. Observation of exposed, basking and foraging reptiles should also be conducted. Nomenclature of amphibian and reptile should be based on Chan et al. (2005) and Karsen et al. (1998), respectively.

Insect survey (Butterfly and Dragonfly)

9.39 Butterflies and dragonflies observed along the transects should be identified and counted. Preferable habitats of the insects such as watercourses, fishponds, and vegetated areas should be observed with special attention. Nomenclature and protection status of the species should be based on Lo et al. (2005) for butterflies and Tam et al. (2011) for dragonflies.

Monitoring Frequency

9.40 Monitoring surveys of ecological sensitive receivers such as mammals, insects (butterflies and dragonflies), and herpetofauna was undertaken on a monthly basis.

Date of monitoring surveys of ecological sensitive receivers: 28th & 30th July 2025

Monitoring Location

9.41 The transect routes in the reporting month according to the construction works are as follows:

- T1. Ma Tso Lung riparian zone and associated wetland habitats;

- T1. Green belt areas E1-8, D1-8 and G1-3 in KTN NDA;
- T1. AGR one C2-4 and C2-2 in KTN NDA;
- T1. Area north of Ng Tung River;
- T3. Area west of Siu Hang San Tsuen Stream;
- T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au;
- T5. Area west and east of the southern limit of the FLN NDA work area; and
- T6. Areas in the western part of KTN.

9.42 The location of Transects is shown in **Figure 11** for reference.

Monitoring Parameters

9.43 The monitoring parameters and survey methodology for each transect are described below:-

- Species composition
- Abundance
- Distribution for fauna observed
- Species of conservation significance would be specified

Monitoring Results

Mammal

9.44 During the survey, a total of 3 mammal species were recorded from transects. One (1) species of conservation importance was recorded, namely *Pipistrellus abramus.*

9.45 Domestic dogs, *Canis lupus familiaris*, were found at T1, T5 and T6, where associated with human settlements, whilst domestic cats, *Felis catus* was only found at T1 and T3 in the reporting month.

9.46 Echolocation calls of bats were recorded with a bat detector. The bat detector would list out possible bat species having similar echolocation calls in pattern and frequency. The structure of the echolocation calls from the recordings was later analysed to identify species as far as possible (the lack of literature on echolocation call structure makes the field identification of some bat species in Hong Kong difficult, and some species could only be identified to genus level, or remain unidentified from the recordings).

9.47 Identification of bat species encountered in the surveys was made with consideration of the possible bat species suggested by the bat detector, the distribution of suggested bat species in Hong Kong, previous records of bat species in the EIA Report and Baseline Monitoring Report, and the structure of echolocation calls of the recordings (including call structure, frequency, duration, inter pulse interval etc., with reference to relevant literatures).

9.48 *Pipistrellus abramus* was recorded with FM/QCF call structure and frequency around 45 kHz to 68 kHz (Ma et al., 2010, p.319). The above characteristics were further compared with data from relevant literatures to confirm the identities. References were also made to Tong (2016).

9.49 Bat species, *Pipistrellus abramus* were recorded in flight at nighttime at all transect.

Herpetofauna (Amphibians and Reptiles)

9.50 Among the transects, a total of eleven (11) herpetofauna species were observed. No species of conservation importance was found. Species including frogs and geckos were recorded near wetland habitats and watercourse. T1 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

9.51 During the insect survey, a total of thirty-four (34) butterfly species were recorded from transects. Two (2) species of butterfly recorded was of particular conservation interest. Transect T1 had recorded the highest butterfly diversity among all transects.

9.52 Ten (10) species of odonata were recorded in the reporting month. No species of odonata recorded was of particular conservation interest. Transect T1 had recorded the highest abundance of odonata among all transects.

9.53 Ecological sensitive receivers such as mammals, insects (butterflies and dragonflies), and herpetofauna monitoring during construction phase was conducted in the reporting month and the results are attached in **Appendices L4 to L7**.

9.54 **Table 9.4** summarises the mammal monitoring results during the reporting month.

Table 9.4 Summary Table of Mammal Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	1	1	NA	NA
T3	1	1	NA	NA
T4	1	0	NA	NA
T5	1	1	NA	NA
T6	1	1	NA	NA

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.55 **Table 9.5** summarises the herpetofauna monitoring results during the reporting month.

Table 9.5 Summary Table of Herpetofauna Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	8	9	6	5
T3	3	7	5	4
T4	2	5	4	3
T5	4	2	NA	1
T6	2	7	5	4

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.56 **Table 9.6** summarises the butterfly monitoring results during the reporting month.

Table 9.6 Summary Table of Butterfly Monitoring Results to Corresponding Action and Limit Levels.

Number of Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	23	28	20	14
T3	9	11	8	6
T4	13	13	9	7
T5	21	8	6	4
T6	13	15	11	8

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.57 **Table 9.7** summarises the odonata monitoring results during the reporting month.

Table 9.7 Summary Table of Odonata Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	7	18	13	9
T3	2	13	9	7
T4	4	5	4	3
T5	4	3	2	1
T6	4	10	7	5

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.58 Six (6) Limit Level exceedances were recorded in non-aquatic fauna monitoring during the reporting month.

9.59 For the monitoring conducted on 28th July 2025 at Transect T5, a section of the transect route was found located within a private property and hence not accessible. The inaccessible part are shown in **Photo 1** below. The adjusted accessible transect route is shown in **Figure 11**.



Photo 1. Inaccessible part of transect T5 located within a private property.

Results and Observation

Action and Limit Level Exceedance

9.60 Three (3) Limit Level exceedances for Herpetofauna and Three (3) Limit Level exceedances for Odonates were recorded in non-aquatic fauna monitoring during the reporting month (see below table).

Transect with exceedance recorded	**Non-aquatic Fauna**			
	Herpetofauna		Odonates	
	Action Level	Limit Level	Action Level	Limit Level
T1	0	0	0	1
T3	0	1	0	1
T4	0	1	0	0
T5	0	0	0	0
T6	0	1	0	1

9.61 According to Hong Kong Observatory, the accumulated rainfall from January to July was 1046.1 mm, a 29% deficit compared to the normal of 1468.2 mm. July 2025 was warmer than average, with a mean maximum temperature of 32.4°C, 0.8°C above normal and the ninth highest on record for the month. The mean temperature was 29.5°C, 0.6°C above normal, and the mean minimum temperature was 27.4°C, 0.5°C above normal.

9.62 The limited rainfall and relative high temperature of the reporting month may affect the availability of microhabitat for odonates and herpetofauna, such as puddles and ponds.

9.63 Additionally, no observed impacts from construction-related runoff, air quality and noise impacts from construction activities on non-aquatic fauna was observed during the survey in the reporting month.

9.64 Therefore, the exceedances were considered non-project related, as no evidence to suggest that the exceedances were related to project activities, supported by environmental monitoring data. Future result will be continuously reviewed.

Details of the Influencing Factors

Major Activities

9.65 During the survey of Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley, anthropogenic activities including soil turning with excavator and other construction activities were observed near Long Valley. Construction works were observed beside Sheung Yue River.

9.66 The Long Valley Nature Park has been opened to public starting from 9 November 2024. The anthropogenic activities may affect the habitat in Long Valley and disturbances to the birds during monitoring.

9.67 During the survey of Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, anthropogenic activities including construction works beside T2 and recreational fishing by fishing rod at both T1 and T2 were observed.

9.68 During the survey of Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution, construction activities NOT under this Project were observed at T3 and T5.

Weather Conditions

9.69 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: https://www.weather.gov.hk/wxinfo/pastwx/metob202507.htm), weather conditions might pose influence towards the monitoring results.

9.70 The detailed ecological monitoring results are attached in **Appendix L**.

References

Ma, J., Jones, G., Zhu, G. J., & Metzner, W. (2010). Echolocation behaviours of the Japanese pipistrelle bat *Pipistrellus abramus* during foraging flight. Acta Theriologica, 55(4), 315-332.

Tong, C. F. (2016). Distribution and preference of landscape features and foraging sites of insectivorous bats in Hong Kong urban parks. (Master dissertation)

10 ENVIRONMENTAL SITE INSPECTION

Site Audits

10.1 Site audits were carried out by ET on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site. Summary of the site audits are presented in **Table 10.1** and **Appendix P**.

Table 10.1 Summary of Site Audits

Environmental Site Inspection	Works Contracts						
	ND/2019/01	ND/2019/02	ND/2019/03	ND/2019/04	ND/2019/05	ND/2019/06	ND/2019/07
Weekly site audit with representative of the *Supervisor's* Representative and the Contractor	2, 8, 14, 23 and 29 Jul 25	2, 8, 16, 23 and 30 Jul 25	N/A	3, 9, 17, 22 and 31 Jul 25	7, 14, 24 and 30 Jul 25	N/A	7, 18, 22 and 30 Jul 25
Joint Site Audit with representative of the *Supervisor's* Representative, the Contractor and IEC	14 Jul 25	23 Jul 25	N/A	9 and 22 Jul 25	24 and 30 Jul 25	N/A	18 Jul 25

Remarks:
1. The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.
2. The weekly site inspection for ND/2019/03 has been terminated starting from 01/04/2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.

10.2 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 10.2**. Any outstanding and recurrence deficiencies are presented in **Table 10.3**.

10.3 All construction activities with significant environmental impact undertaken by Contract No. ND/2019/06 was substantially completed in March 2022 and the majority of outstanding works were also completed in April 2022 with defect rectification works remained until July 2023 when all works were completed.

10.4 The weekly site inspection and EM&A Reporting for ND/2019/06 were maintained until the termination proposal for ND/2019/06 has been endorsed by the IEC (17 Aug 23), the Engineer (26 Aug 23) and the Project Proponent (19 Sep 23) followed by approval from EPD (19 Oct 23) in accordance. The procedure for termination proposal for ND/2019/06 is in accordance with section 15.4.2 of updated EM&A Manual.

10.5 Regarding to Contract No. ND/2019/03, all outstanding works with defect rectification under the Contract have also been completed on 28 March 2025. Refer to the proposal for termination of Construction Phase EM&A Programme of ND/2019/03 submitted by ET, with no objection from CEDD, AECOM and IEC to EPD in July 2024, weekly site environmental audit under ND/2019/03 would be terminated starting from 1st April 2025. According to the recommendation from AFCD, Avifauna monitoring in Long Valley (i.e., T5) during the construction period and its results reporting in the Monthly EM&A Report will be continued until the completion of works within 200m of Long Valley.

Table 10.2 Observations and Recommendations during Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/01			
Air Quality	23/07/2025	Mud stain was observed on Ma Tso Lung Road. The Contractor was reminded to keep the main access road near site entrance or exit clean and free from dust.	Improvement/Rectification was observed during follow-up audit session on 29 July 2025.
Permits/Licences	29/07/2025	Construction Noise Permit should be displayed properly at site entrance.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/02			
Water Quality	25/06/2025	Sand bag bund should be enhanced along the boundary of works at CH1680.	Item was remarked as 250702-R01. Follow-up action is needed to be reviewed.
	02/07/2025		Item was remarked as 250708-R01. Follow-up action is needed to be reviewed.
	08/07/2025		Item was remarked as 250716-R01. Follow-up action is needed to be reviewed.
	16/07/2025		Item was remarked as 250723-R01. Follow-up action is needed to be reviewed.
	23/07/2025		Item was remarked as 250730-R01. Follow-up action is needed to be reviewed.
	30/07/2025		Follow-up action is needed to be reported in the following month.
	02/07/2025	Temporary ditches for runoff discharge into appropriate watercourse should be provided.	Item was remarked as 250708-R02. Follow-up action is needed to be reviewed.
	08/07/2025		Item was remarked as 250716-R02. Follow-up action is needed to be reviewed.
	16/07/2025		Item was remarked as 250723-R02. Follow-up action is needed to be reviewed.
	23/07/2025		Improvement/Rectification was observed during follow-up audit session on 30 July 2025.
	23/07/2025	Exposed slope next to Sheung Yue River should be covered and maintained properly.	Item was remarked as 250730-R02. Follow-up action is needed to be reviewed.
	30/07/2025		Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
Waste/Chemical Management	16/07/2025	Drip tray for chemical/fuel containers should be provided.	Item was remarked as 250723-R03. Follow-up action is needed to be reviewed.
	23/07/2025		Improvement/Rectification was observed during follow-up audit session on 30 July 2025.
Ecology	30/07/2025	Silt curtain should be maintained properly and regularly.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/04			
Air Quality	26/06/2025	Stockpile of dusty material should be covered by impervious sheets properly at Portion K.	Item was remarked as 250703-R01. Follow-up action is needed to be reviewed.
	03/07/2025		Item was remarked as 250709-R01. Follow-up action is needed to be reviewed.
	09/07/2025		Item was remarked as 250717-R01. Follow-up action is needed to be reviewed.
	17/07/2025		Item was remarked as 250722-R01. Follow-up action is needed to be reviewed.
	22/07/2025		Improvement/Rectification was observed during follow-up audit session on 31 July 2025.
	17/07/2025	Stockpile of dusty material should be covered by impervious sheets properly near Bridge F.	Item was remarked as 250722-R03. Follow-up action is needed to be reviewed.
	22/07/2025		Item was remarked as 250731-R02. Follow-up action is needed to be reviewed.
	31/07/2025		Follow-up action is needed to be reported in the following month.
	03/07/2025	Haul road near Bridge F should be water-sprayed regularly as dust-suppression.	Improvement/Rectification was observed during follow-up audit session on 9 July 2025.
Waste/Chemical Management	26/06/2025	General refused should be disposed of regularly and properly.	Improvement/Rectification was observed during follow-up audit session on 3 July 2025.
	03/07/2025	General refused should be disposed of regularly and properly.	Improvement/Rectification was observed during follow-up audit session on 9 July 2025.

Parameters	Date	Observations and Recommendations	Follow-up
	03/07/2025	Drip tray for chemical/fuel containers should be provided at Bridge F.	Improvement/Rectification was observed during follow-up audit session on 9 July 2025.
	17/07/2025	Packing of cement should be disposed of properly.	Item was remarked as 250722-R04. Follow-up action is needed to be reviewed.
	22/07/2025		Item was remarked as 250731-R03. Follow-up action is needed to be reviewed.
	31/07/2025		Follow-up action is needed to be reported in the following month.
Water Quality	09/07/2025	Sand bag bunds should be supplemented to avoid surface runoff entering Ng Tung River.	Item was remarked as 250717-R02. Follow-up action is needed to be reviewed.
	17/07/2025		Item was remarked as 250722-R02. Follow-up action is needed to be reviewed.
	22/07/2025		Item was remarked as 250731-R01. Follow-up action is needed to be reviewed.
	31/07/2025		Follow-up action is needed to be reported in the following month.
Ecology	03/07/2025	2m high dull green barrier should be erected and maintained properly.	Improvement/Rectification was observed during follow-up audit session on 9 July 2025.
Contract No.: ND/2019/05			
Water Quality	24/07/2025	Proper protective measures should be provided surrounding the gullies along the Tai Wo Service Road to avoid earth, mud and debris from getting into it.	Improvement/Rectification was observed during follow-up audit session on 30 July 2025.
	30/07/2025	Sand bag bunds should be enhanced along the Ma Wat River near Tong Hang.	Follow-up action is needed to be reported in the following month.
Waste/Chemical Management	30/06/2025	General refuse should be disposed of regularly and properly.	Improvement/Rectification was observed during follow-up audit session on 7 July 2025.
	30/06/2025	Drip tray for chemical/fuel containers should be provided.	Improvement/Rectification was observed during follow-up audit session on 7 July 2025.
Contract No.: ND/2019/07			
--	--	--	--

Table 10.3 Summary Table for the Outstanding item(s) in the reporting month

Contract No.	Outstanding deficiencies since last reporting month (June 2025)	Deficiencies recorded in the reporting month (July 2025)								Total deficiencies (including repeated deficiencies) in the reporting month	Deficiencies rectified in the reporting month	Outstanding deficiencies need to be Follow-up in the next month (August 2025)								Total outstanding deficiencies
		A	N	W	W/C	CH	L&V	E	P/L			A	N	W	W/C	CH	L&V	E	P/L	
ND/2019/01	/	1	/	/	/	/	/	/	1	2	1	/	/	/	/	/	/	/	1	1
ND/2019/02	1	/	/	11	2	/	/	1	/	14	2	/	/	2	/	/	/	1	/	3
ND/2019/03**	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/04	2	8	/	4	5	/	/	1	/	18	6	1	/	1	1	/	/	/	/	3
ND/2019/05	2	/	/	2	/	/	/	/	/	2	3	/	/	1	/	/	/	/	/	1
ND/2019/06*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/07	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Legends:
A = Air Quality
N = Construction Noise Impact
W = Water Quality
W/C = Waste / Chemical Management
CH = Cultural Heritage
L&V = Landscape & Visual
E = Ecology
P/L = Permit / Licences

** The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.*
*** The weekly site inspection for ND/2019/03 has been terminated starting from 01/04/2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.*

Implementation Status of Environmental Mitigation Measures

10.6 According to the EIA Report, EPs and the Updated EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix Q**. The photographic records of measures as stipulated in EPs to mitigate environmental impacts in the reporting month are presented in **Table 10.4.**

Table 10.4 Photographic Records and Implementation Status of Measures

EP No.	Condition	Photographic Record	Implementation Status
EP-466/2013/A	2.9	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
EP-467/2013/A	2.9	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
EP-468/2013/A	2.11	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
EP-469/2013	2.7	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]

EP-473/2013/A	2.13	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
EP-475/2013/A	2.7	  To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]

Implementation status:		
	^	Mitigation measure was fully implemented
	*	Observation/reminder was made during site audit but improved/rectified by the contractor
	#	Observation/reminder was made during site audit but not yet improved/ rectified by the contractor
	X	Non-compliance of mitigation measure
	•	Non-compliance but rectified by the contractor
	N/A	Not Applicable at this stage as no such site activities were conducted in the reporting period

Remark:
[1]: Barrier fences might be subjected to change according to the phasing plan designed at detailed design stage

Implementation Status of Water Quality Mitigation Measures

10.7 The water quality mitigation measures detailed in the EIA Report and the Updated EM&A Manual are recommended to be implemented during the construction phase. Water quality mitigation measures implemented by the contractors were closely monitored to prevent water pollution, especially during rainy season. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix Q**. Specific water quality mitigation measures for major construction works in the reporting month are presented in **Table 10.5.**

Table 10.5 Specific Water Quality Mitigation Measures for Major Construction Works in the Reporting Month

Works Contracts	Photographic Records	
ND/2019/01	 Hard paved exposed slope surface	 Provision of maintenance for the drainage and sump pit around the construction site
ND/2019/02	 Hard paved exposed haul road	 Hard paved exposed slope surface
ND/2019/03	 Hard paved exposed haul road	 Watering the main haul road regularly.
ND/2019/04	 Concrete barrier along the site hoarding	 Deployment of silt curtain around works area in Ng Tung River

ND/2019/05	  Covering dusty stockpile at different works area	  Provision of sand bags around works area and sump pit to prevent the untreated muddy water
ND/2019/07	 Covering exposed slope surface with tarpaulin	 De-silting waste water before discharge
Water quality mitigation measures for site(s) in operation phase, remaining defect works		
ND/2019/06	 Hard paved exposed haul road	 Hard paved exposed haul road

Solid and Liquid Waste Management Status

10.8 Waste generated from Contract Nos. ND/2019/01, ND/2019/02, ND/2019/04, ND/2019/05 and ND/2019/07 included inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting month. The site of ND/2019/06 was handed over to AFCD for operation since 4 April 2022. The site of ND/2019/06 was handed over to AFCD for operation since 1 April 2025.

10.9 The amount of wastes generated by the construction works of the Contract Nos. ND/2019/01, ND/2019/02, ND/2019/04, ND/2019/05 and ND/2019/07 during the reporting month are shown in **Appendix R**. The site of ND/2019/06 was handed over to AFCD for operation since 4 April 2022. The site of ND/2019/06 was handed over to AFCD for operation since 1 April 2025.

10.10 The Contractors are advised to minimise the wastes generated through recycling or reusing. All mitigation measures stipulated in the Updated EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summited in **Appendix Q**.

Ecological Mitigation Measures – Creation of Long Valley Nature Park (LVNP)

10.11 Based on the findings of the EIA Report, the area of Long Valley has been assessed as of high to very high ecological value and is the largest contiguous area of freshwater wetland habitats in Hong Kong. To safeguard the ecological value of Long Valley, about 37 hectares of land in Long Valley has been proposed to develop into Long Valley Nature Park (LVNP) for conserving and enhancing the ecologically important environment as well as for compensation of the wetland loss due to the NDA development.

10.12 LVNP is developed according to the approved Habitat Creation and Management Plan (HCMP) submitted under EP-468/2013/A. HCMP provides a framework and specifications for development and management of LVNP and guides the development to maintain and enhance the 37 hectares of low-lying wetland habitats.

10.13 Regarding the design, the zoning of land use in LVNP is intended to maintain the existing mosaic pattern of wet and dry agriculture, while controlling the activities that could potentially disturb target habitats and species. LVNP will be divided into three broad zones of land use as below:

- Biodiversity Zone of about 21 hectares largely designated for biodiversity conservation through cultivation of specified crops and habitat management.
- Agricultural Zone of about 11 hectares designated for commercially focuses crop production and eco-friendly agricultural practice for farming.
- Visitor Zone of about 5 hectares designed to accommodate visitors as well as storage and other facilities and for educational purposes.

10.14 The construction of LVNP started in late 2019 and has been opened to public starting from 9 November 2024. All outstanding works with defect rectification under the ND/2019/03 in LVNP have been completed on 28 March 2025. During the construction period, the progress of construction and wetland enhancement works has been under observation by different stakeholders including AFCD and green groups. Close communication between AFCD and CEDD were conducted to exchange views on conservation, restoration and management of habitats as well as on the planning and design of the park. In addition, advices from green

groups, Hong Kong Bird Watching Society (HKBWS) and The Conservancy Association (CA), have been taken on habitat management of Long Valley and potential effects on habitat and wildlife of each individual work conducted in Long Valley. The last meeting was held on 18 November 2022 to share the progress of LVNP with different stakeholders, including CEDD, AFCD, CA, HKBWS, Contractor, ET, IEC and farmers.

10.15 Proposals on wetland creation and restoration, dry agricultural land creation, pond creation, water treatment wetland and design of irrigation channel were submitted by the Contractor to achieve the objectives stated in HCMP and accepted by the Engineer with consent from AFCD before implementation. The Contractor would consult the stakeholders for recommendations and suggestions on mitigation measures to minimise the environmental impacts arising from construction works. The progress of works would be arranged to minimise impacts to avifauna and maintain the habitat for avifauna. The photographic records of site activities in LVNP are presented in **Table 10.6**.

Table 10.6 Photographic Records of Site Activities in LVNP



Continuing agricultural practice in existing farmland to maintain habitats in Long Valley



Open water Habitat



Open water Habitat

Creation of wetland with designated habitat for biodiversity conservation





Planting of paddy rice to provide foraging ground for Yellow-breasted Bunting





Enhancement of irrigation channel to provide reliable water source for farmland in Long Valley



Provision of bird island (hidden area)



Restoring of water flea pond to provide food source to water birds



Construction of storage sheds for farmers



Himantopus himantopus



Greater Painted-snipe
Rostratula benghalensis



Wet agricultural land

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

11.1 No Action/Limit Level exceedance for air quality, water quality, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month.

11.2 One (1) Action Level for construction noise monitoring was recorded. The summary of exceedance record in the reporting month is shown in **Appendix O**.

11.3 Ecological monitoring was carried out in the reporting month. Six (6) Limit Level exceedances for non-aquatic fauna were recorded at T1, T3, T4 and T6. The exceedances recorded were for herpetofauna at T3, T4 & T6 and odonates at T1, T3 & T6. The exceedances were considered non-project related, as no evidence to suggest that the exceedances were related to project activities, supported by environmental monitoring data.

11.4 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that Action / Limit Levels are exceeded, the actions in accordance with the Event/Action Plan in **Appendix N** would be carried out.

Summary of Environmental Non-Compliance

11.5 No environmental non-compliance was recorded in the reporting month.

Summary of Environmental Complaint

11.6 One (1) environmental complaint was received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix S**.

Summary of Environmental Summon and Successful Prosecution

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

12 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

12.1 The major site activities, potential environmental impacts and recommended mitigation measures for the coming three months are shown in **Table 12.1.**

Table 12.1 Summary Table for Site Activities, Potential Environmental Impacts and Recommended Mitigation Measures in the Coming Months

Contract No.	Major Site Activities (August to October 2025)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Excavation / Backfilling	Portion 1c, 6a, 7, 8a, 9b	- Construction Dust impact - Noise Impact (Construction Phase) - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste)	**Air** - Watering on exposed earth and haul road. - Cover the stockpiles or dusty materials. - Deploy water bowsers to water the haul road. - Deploy mist-cannon on site - Provide shelter with top and 3-sides for cement production activities. - Cover the Arsenic-containing soil. - Store the bulk cement in enclosed silo tank for soil treatment. - Close the mechanical cover of the vehicles used for transporting dusty materials. - Establish vehicle wheel washing facilities at vehicle exit points. - Speed control of site vehicles. **Noise**
	(b) Site formation	Portion 1c, 2, 5		
	(c) Planting / Metal works / RC structure works / E&M works	Portion 8a		
	(d) Construction of subway	Portion 2		
	(e) Sewage Works	Portion 1c, 7		
	(f) RC Construction of fresh water service reservoir	Portion 8a		
	(g) District Cooling System	Portion 6a, 9b		
	(h) Operation of HAC treatment facility / HAC soil treatment	Portion 3, 6b		

	(i) Drainage works / watermains works	Portion 1a, 1c, 2, 5, 6a, 7, 8a, 8b, 9b, 10b, 11b		- Regular inspect of construction plants in good condition. - Provide temporary noise screens if necessary. - Use of Quiet plants (QPME) and working methods if possible. - Sequencing operation of construction plants where practicable. - Shut down the machines and plant if not in use. - Only well-maintained plant to be operated on-site - Mobile plant to be sited as far away from NSRs as possible practicable. - Conduct noise monitoring regularly. - Erect silent-up noise barrier at portion 6b. **Water** - Set up wastewater treatment system (AquaSed) on site - Erect soil bund / temporary drain to divert /collect surface runoff. - Maintain the drainage and wastewater treatment facilities. **Waste / Chemical Management** - Sort out demolition debris and excavated materials from demolition works to recover reusable / recyclable portions - Provide recycling bins on site, encourage reuse and recycle as much as possible. - Provide drip trays for chemical containers. - Chemical spill kit available on site. - Chemical waste cabinet available on site.
	(j) Road works	Portion 1c, 2, 6a, 7, 8a, 9b		
	(k) Soil nail / Slope works	Portion 1a, 2, 6a, 8a		
	(l) Grouting, ground treatment	Portion 8b		
	(m) Road lighting works	Portion 6a		
	(n) Sheet piling/ ELS	Portion 1a, 1c, 8b, 9b		
	(o) Stockpile of soil	Portion 13		

				- Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste collector. - Delivery of yard waste to tree shredding facility for upcycling.
ND/2019/02	(a) Pipe Jacking	Portions 2, 4	Air, Noise, Waste	- Dusty works should be spray water. Idle stockpile or slop should be covered by Tarpaulin sheet properly. - Wheel washing should be carried out at every exit. - Plants should be well maintained to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is obtained. - Erect noise screen along site boundary. - Waste should be sorted and dispose according to the Waste Management Plan - No direct discharge of wastewater into storm drains is allowed. Wastewater must be de-silted before discharged in accordance with the water discharge license. - Dull green barrier and ecological measures should be implemented according to the Ecological protection plan.
	(b) Backfilling	Portions 4	Air, Noise, Waste	
	(c) Concreting	Portions 3, 11	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 5, 6	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 4, 5, 6	Air, Noise, Water, Waste, Ecology	
	(f) Grouting	Portion 6, 11	Air, Noise, Water	
	(g) Cut and Fill of Slope	Portion 5, 6	Air, Noise, Water, Waste	
	(h) Sheet pile installation	Portion 5	Air, Noise, Water, Waste	
ND/2019/03	N/A	N/A	N/A	N/A

ND/2019/04	(a) Rebar Fixing, formwork erection and scaffolding erection	Bridge F, A1, A2, A3, Portion J, K, H, A, B	- Air, Noise, Waste	- Dusty works should be sprayed with water or stockpile should be covered by tarpaulin properly. - Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is granted. - Waste should be sorted and disposed according to Waste Management Plan. - No direct discharge of wastewater into storm water drains is allowed. Wastewater must be desilted before discharging according to water discharge license.
	(b) Concreting	Portion F, B, N, K	- Air, Noise, Waste	
	(c) Grouting	Bridge F, A1, A2, A3 and Portion J, K, H	- Air, Noise, Water, Waste	
	(d) Back filling	Bridge A1, Portion F	- Air, Noise, Waste	
	(e) Excavation & ELS	Portion A, B, J, H, K	- Air, Noise, Waste	
	(f) Road works	Portion A, B, H, K	- Air, Noise, Waste	
	(g) MIC	Portion J	- Air, Noise, Waste	
	(h) Sheet piling	NIL	- NIL	
	(i) UU diversion	Portion J and K	- Air, Noise, Waste	
ND/2019/05	(a) ELS & Pile Cap Construction	NB69 Bay 2~8 NB110 Bay 6~7	- Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase)	Regular watering on exposed worksites and haul road. - Stockpiling area should be provided with covers and water spraying system. - Only well maintained plant to be operated on site. - plant known to emit noise strongly in one direction, where possible, be orientated so
	(b) Cap Construction	E3-04a, E3-04b, E4-01 and E4-02		
	(c) Cross head construction	B2-01, B2-02 and B2-03		
	(d) Pier / Pier head Construction	D2-01 and E305M		

	(e) Fabrication for segment	C2, C1, D1, D2, E1, E4	- Waste Management (Construction Waste) - Landscape and Visual - Cultural Heritage	that the noise is directed away from nearby NSRs. - mobile plant to be sited as far away from NSRs as possible practicable. - All open stockpiles of construction materials of more than 50m3 to be cove red with tarpaulin. - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and ex cavated materials from demolition works to recover reusable/recyclable portions. - Provide training to workers on appropriate waste management procedures, including waste reduction, reuse and recycling. - To adopt other good site practice, such as arrangements for collection and effective disposal to an appropriate facility, of all
	(f) Form Traveler	E3-01 construction 3rd to 6th pair E2-02 construction 14th pair & dismantling of FT1 D2-02 construction 6th to 8th pair D2-03 construction 2nd pair to 4th pair E2-01 erection of 5th set of form traveler.		
	(g) Segment Erection by Launching Girder & Crane	Bridges C3, C2		
	(h) SOP construction (precast & in-situ cast in type)	D2-01		
	(i) Road construction	TWSRW, TWSRE		
	(j) Road works	Jockey Club Rd, TWSRW		
	(k) Base slab construction	NB109 – bay 11~12		
	(l) Tree Works	All works areas		

	(m) Drainage works	On Kui Street		wastes generated at the site and regular cleaning and maintenance programme for drainage. - Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that ca nnot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. - Conducting Construction Vibration Monitoring - Tree Protection & Preservation Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. - Erect 2m high dull green site boundary fence.

ND/2019/06	N/A	N/A	N/A	N/A
ND/2019/07	(a) Road works	Portion 1, 3, 4	- Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual	- Regular watering on exposed worksites and haul road. - Stockpiling area should be provided with covers and water spraying system. - Only well-maintained plant to be operated on-site. - plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs. - mobile plant to be sited as far away from NSRs as possible practicable. - All open stockpiles of construction materials of more than 50m3 to be covered with tarpaulin. - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions.
	(b) C&D waste disposal	Portion 2, 4		
	(c) Filling works	Portions 2		
	(d) Construction of site haul road	Portions 4		
	(e) Drainage Works	Portion 1, 2, 3, 4		
	(f) Sewerage works	Portion 3, 4		
	(g) Construction of Noise Barrier	Portion 4		
	(h) Waterworks	Portion 1, 2, 3, 4		

				- Provide training to workers on appropriate waste management procedures, including waste reduction, reuse and recycling. - To adopt other good site practice, such as arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site and regular cleaning and maintenance programme for drainage. - Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. - Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. - Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible.

				- Erect 2m high dull green site boundary fence. - Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase.

12.2 The major site activities in coming three months are shown in **Table IV**.

Monitoring Schedule for the Next Month

12.3 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

Construction Programme for the Next Month

12.4 A tentative construction programme is provided in **Appendix A**.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This monthly EM&A Report presents the EM&A work undertaken in July 2025 in accordance with the Updated EM&A Manual.

13.2 One (1) Action Level for Construction Noise Monitoring was recorded in the reporting month. No Action/Limit Level exceedance for air quality, water quality, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month.

13.3 Ecological monitoring was carried out in the reporting month. Six (6) Limit Level exceedances for non-aquatic fauna were recorded at T1, T3, T4 and T6. The exceedances recorded were for herpetofauna at T3, T4 & T6 and odonates at T1, T3 & T6.

Contract No. ND/2019/01

13.4 Environmental site inspections were conducted on 2, 8, 14, 23 and 29 Jul 25 by ET in the reporting month.

Contract No. ND/2019/02

13.5 Environmental site inspections were conducted on 2, 8, 16, 23 and 30 Jul 25 by ET in the reporting month.

Contract No. ND/2019/03

13.6 The weekly site inspection for ND/2019/03 has been terminated starting from 1 April 2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.

Contract No. ND/2019/04

13.7 Environmental site inspections were conducted on 3, 9, 17, 22 and 31 Jul 25 by ET in the reporting month.

Contract No. ND/2019/05

13.8 Environmental site inspections were conducted on 7, 14, 24 and 30 Jul 25 by ET in the reporting month.

Contract No. ND/2019/06

13.9 The construction phase EM&A Programme for Contract No. ND/2019/06 was terminated on 19 Oct 2023. No more environmental site inspection is required.

Contract No. ND/2019/07

13.10 Environmental site inspections were conducted on 7, 18, 22 and 30 Jul 25 by ET in the reporting month.

13.11 One (1) environmental complaint was received in the reporting month. No notification of summons or successful prosecutions was received in the reporting month.

13.12 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

13.13 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To regular water haul roads;
- To provide vehicle washing facilities with high pressure water jet at every discernible or designated vehicle exit point;
- To maintain the impervious material to entirely cover the stockpile of dusty materials; and
- To ensure all regulated machines displayed with valid Non-road Mobile Machinery (NRMM) labels.

Construction Noise Impact

- To ensure compressor operated with doors closed.
- To ensure the noise barriers were fully enclosed.

Water Impact

- To review and implement temporary drainage system;
- To prevent any surface runoff discharge into Sheung Yuen River, Ma Wat River or public road;
- To provide sandbags or construct berm to prevent any outflow of muddy water from site area;
- To ensure all vehicle clear of earth and mud before leaving the site areas;
- To ensure the drainage facilities would not be clogged with waste or sediment to avoid overflow;
- To regularly check the condition of desilting materials for proper function;
- To regularly maintain and ensure water treatment facilities proper operation and function;
- To divert all the water generated from the construction site to de-silting facilities with sufficient handling capacity before discharge; and
- To avoid or regularly clear the stagnant water in drip trays;

Waste/Chemical Management

- To dispose of general refuse properly;
- To clear and avoid oil stains at site areas;
- To provide proper storage areas for chemical; and
- To maintain drip trays for chemical storage well.

Landfill Gas Hazard

- "No Smoking" and "No Naked Flame" notices in Chinese and English should be posted prominently around the construction site.

Land Contamination

- Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of soil to minimise runoff.

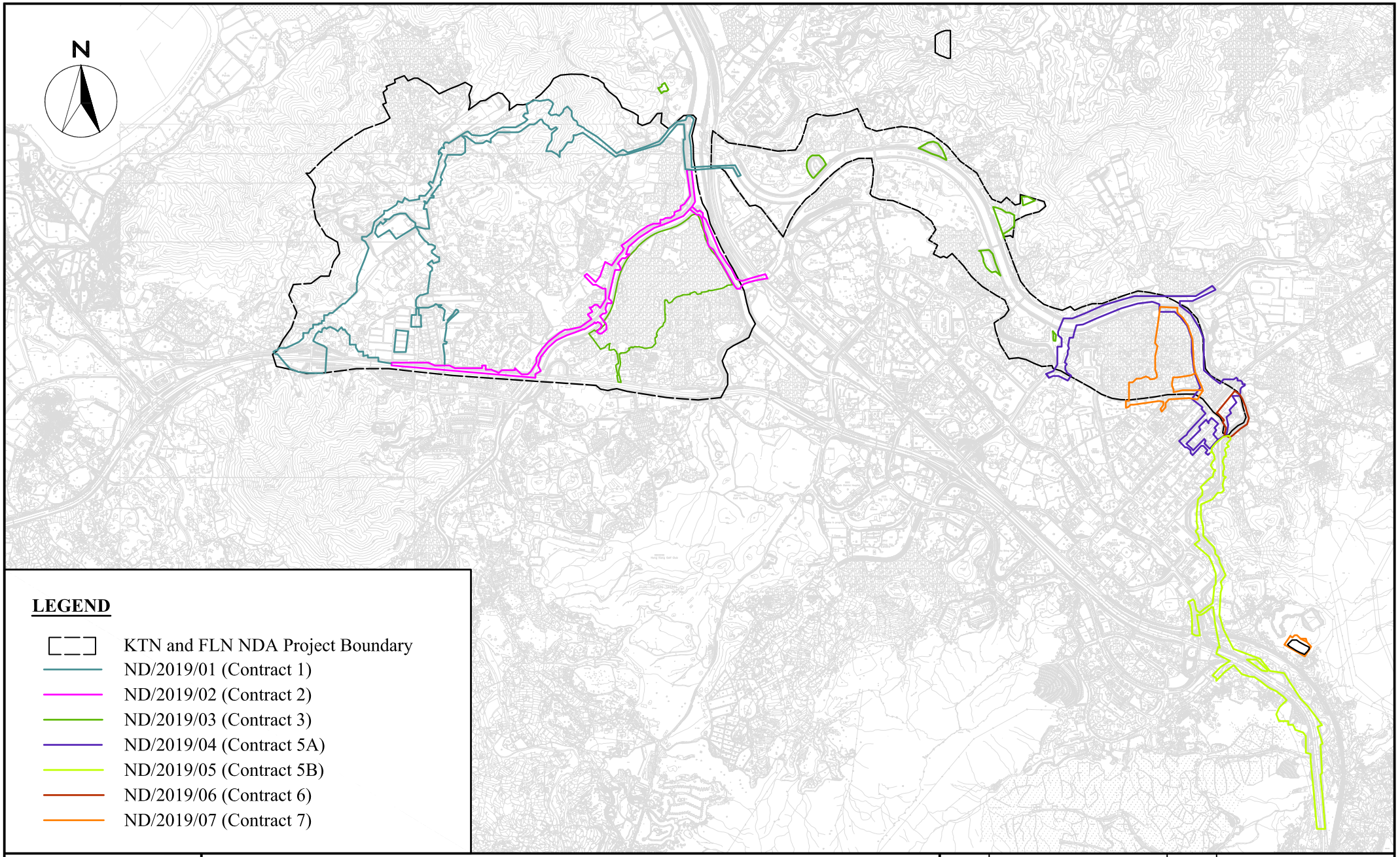
Ecology

- Properly erect and maintain 2m high solid barriers for protecting Siu Hang San Tsuen Stream.

Permit/ Licences

- To display valid Permit or Licences at the site entrances.

DRAWING(S)



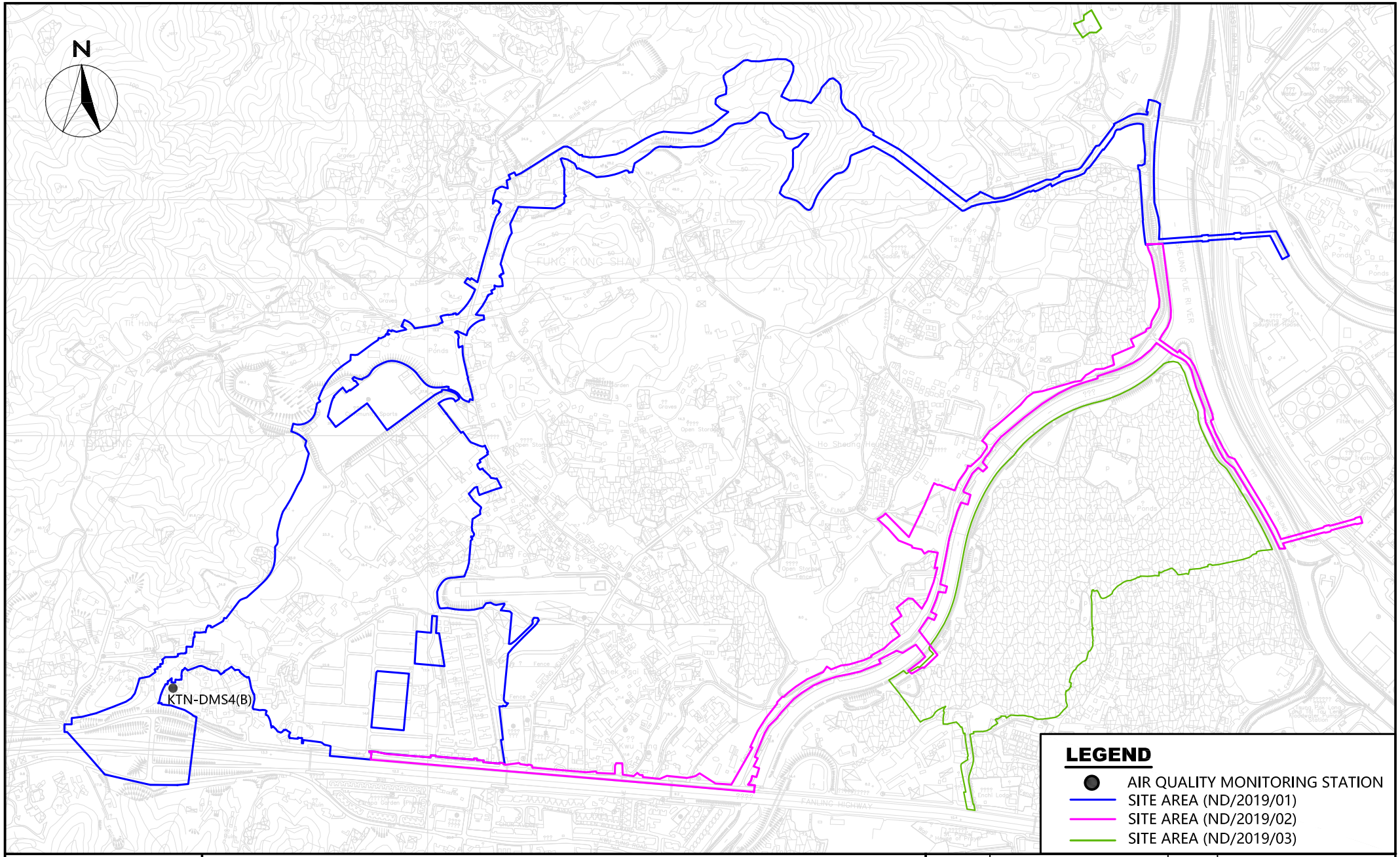
WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Project Boundary for the Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

SCALE	A4 @ 1:80000	DATE	July 2020
CHECK	KL	DRAWN	ML
Project No.	WMA20002	Drawing No. 1	REV -

FIGURE(S)

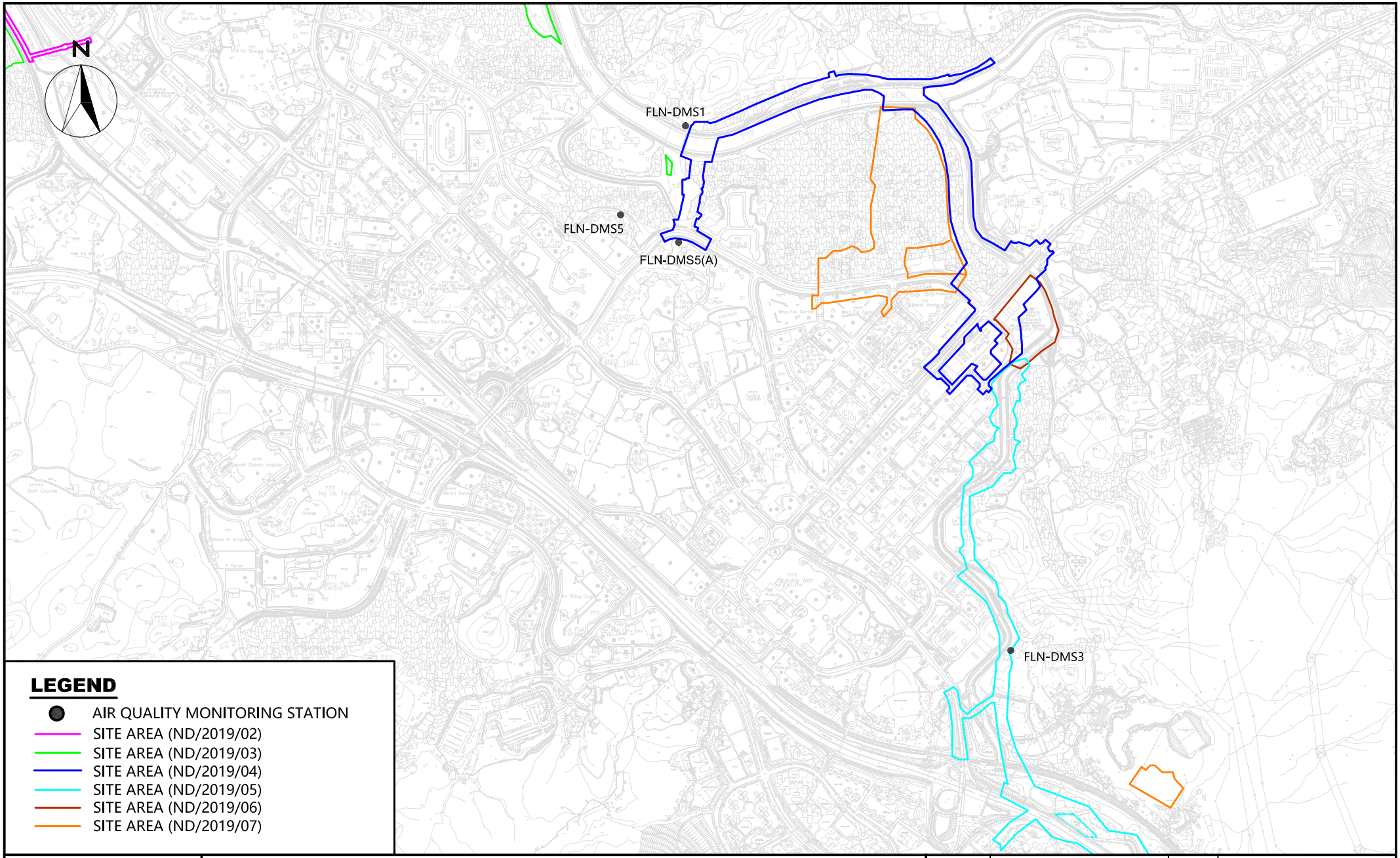


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Air Quality Monitoring Station (KTN)

SCALE	A4 @ 1:30000	DATE	AUG 2022
CHECK	MM	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 1	REV —

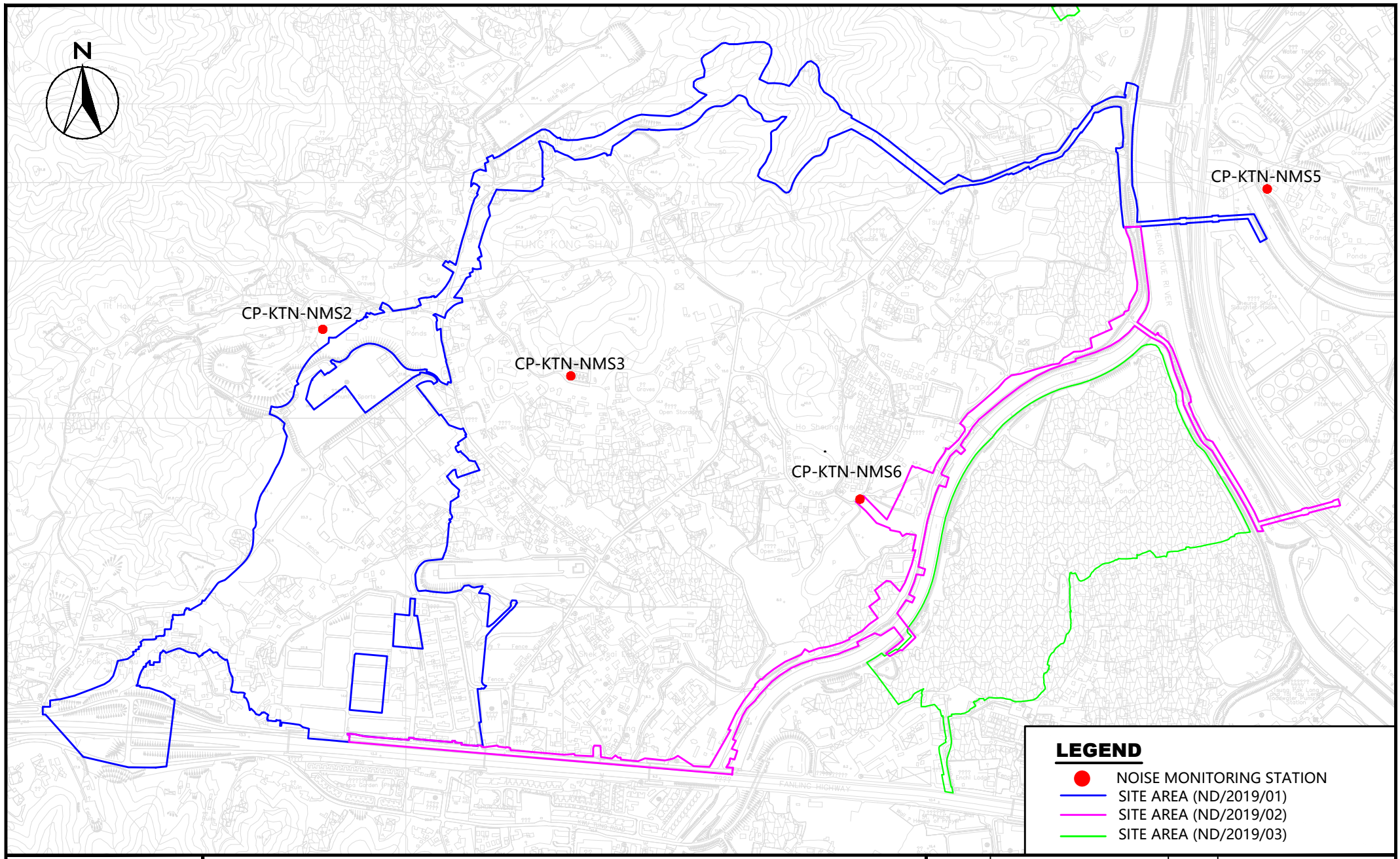


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Air Quality Monitoring Station (FLN)

SCALE	A4 @ 1:40000	DATE	DEC 2021
CHECK	IT	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 2	REV —

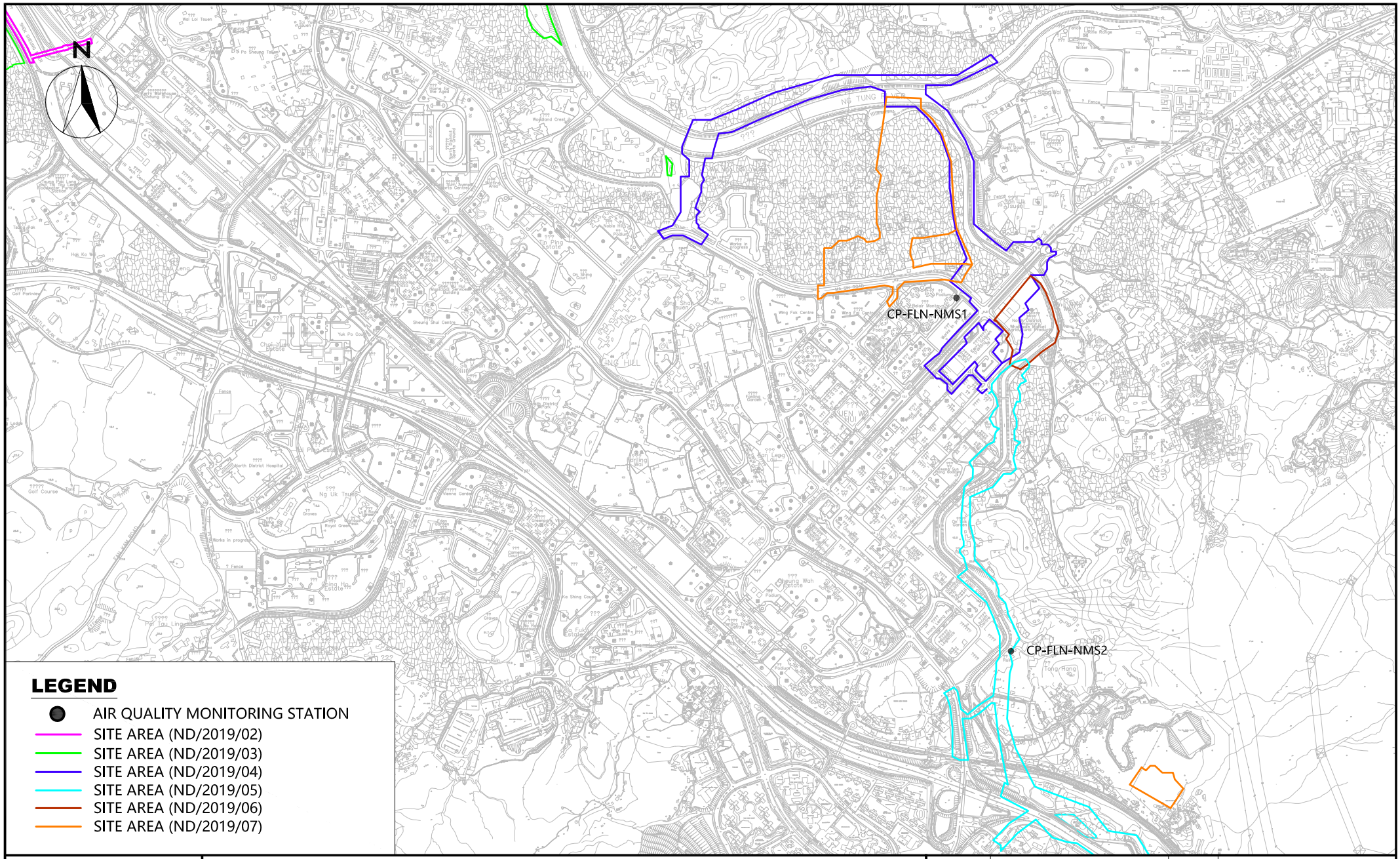


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Station (KTN)

SCALE	A4 @ 1:30000	DATE	OCT 2020
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO.	3
		REV	—

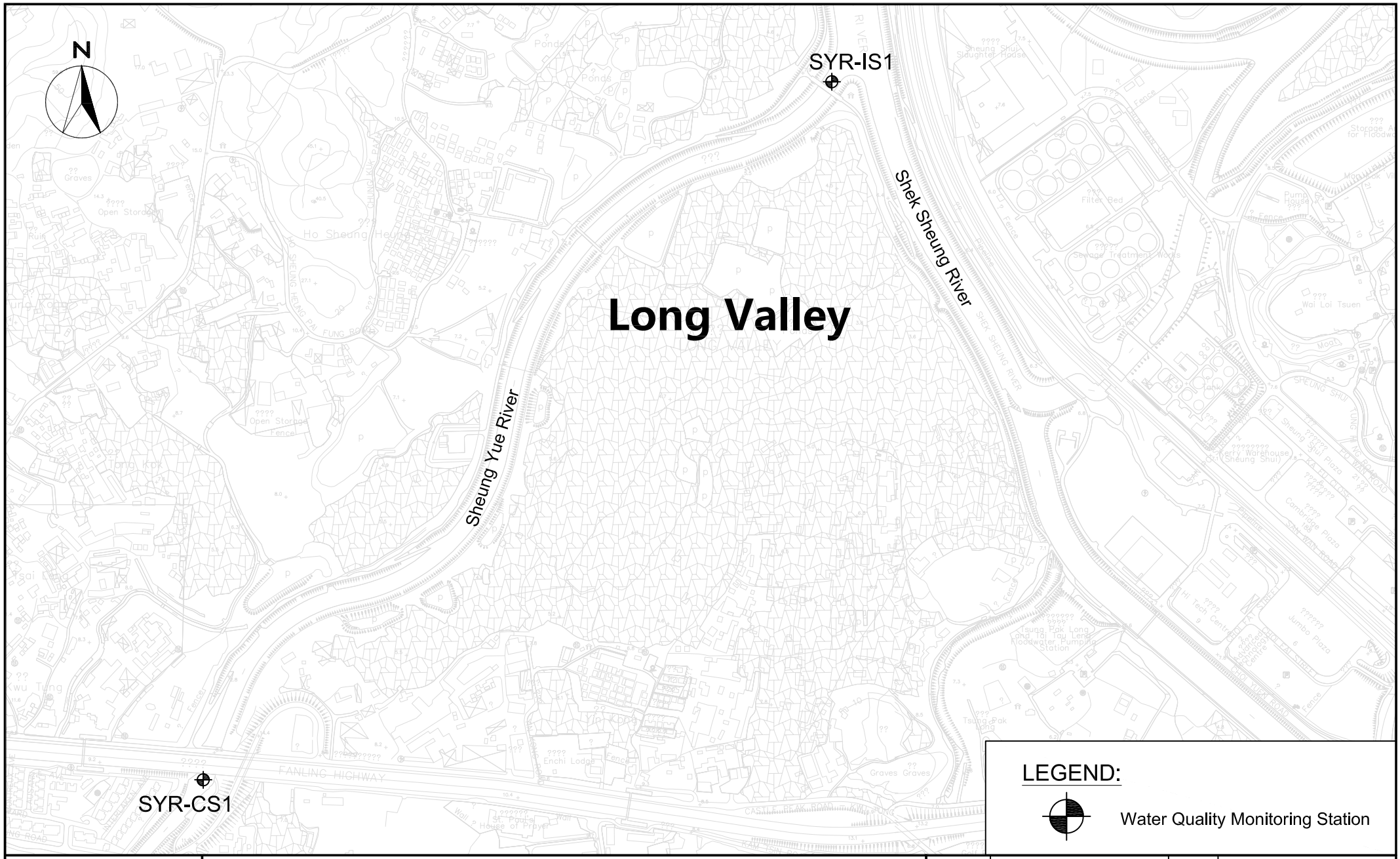


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Stations (FLN)

SCALE	A4 @ 1:40000	DATE	AUG 2020
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO.	4
		REV	—



WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Additional Water Quality Monitoring Stations at River Beas

SCALE	A4 @ 1:20000	DATE	FEB 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 5	REV —

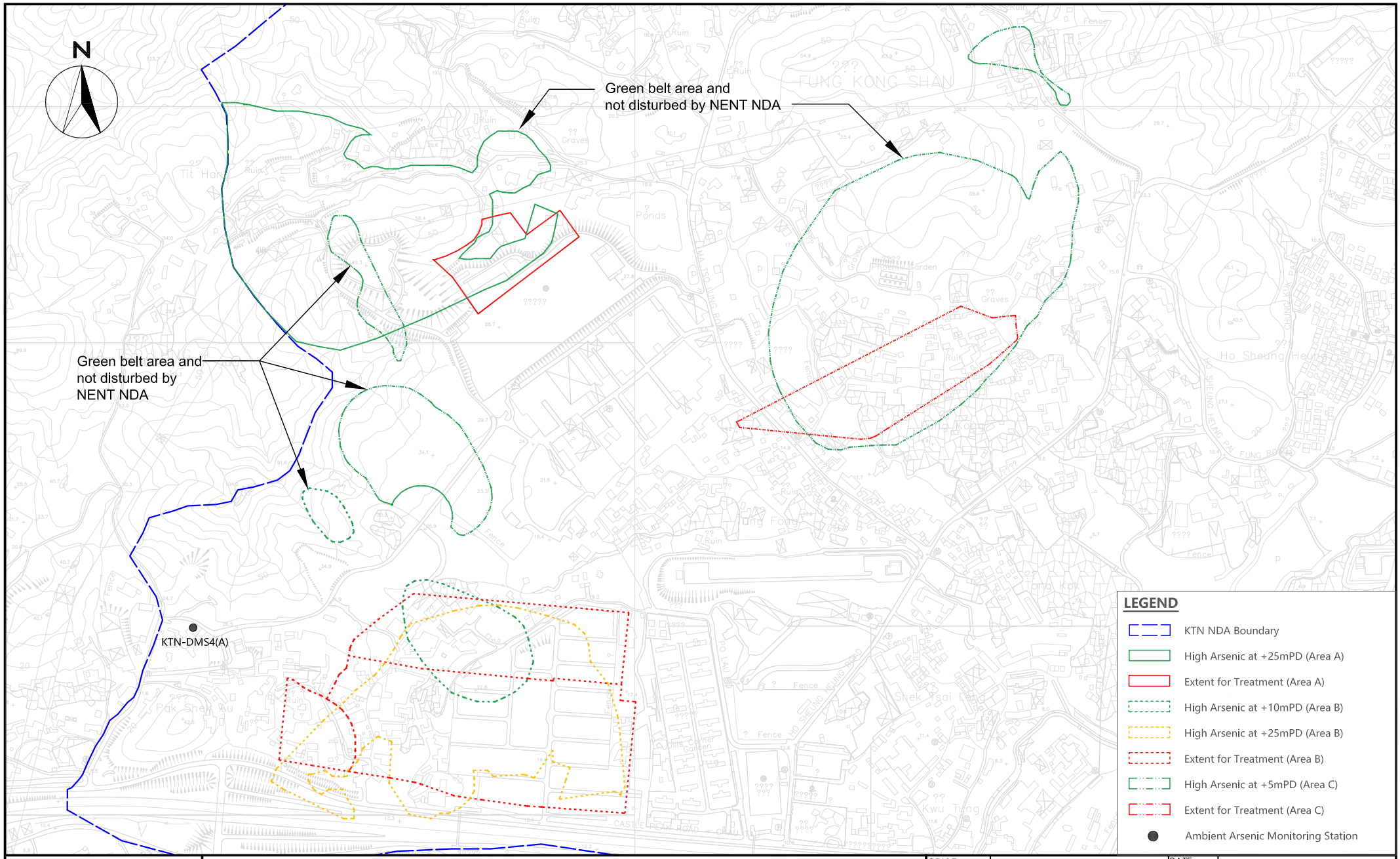


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Additional Water Quality Monitoring Stations at River Indus and near Siu Hang San Tsuen Stream

SCALE	A4 @ 1:20000	DATE	FEB 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 6	REV —

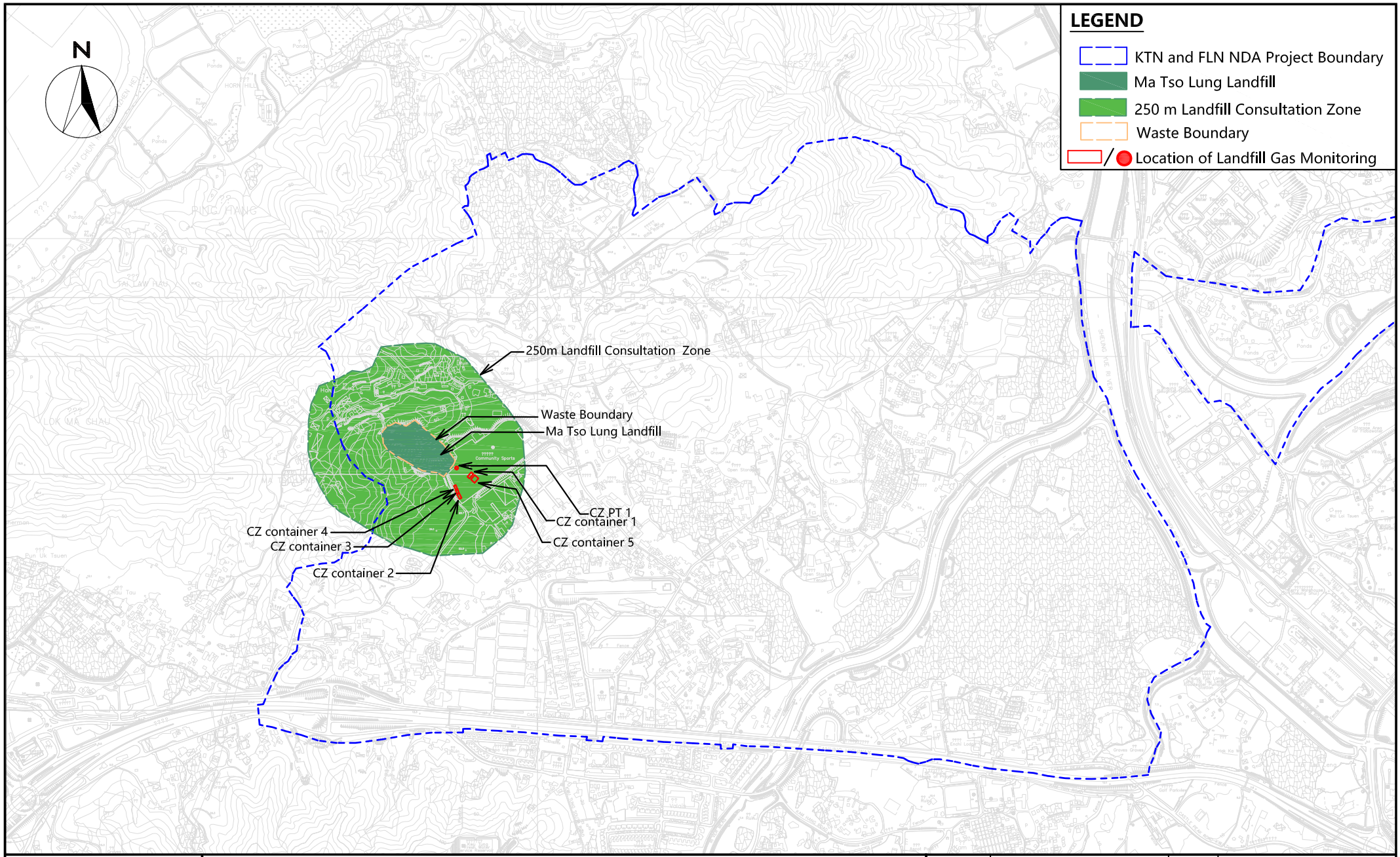


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Ambient Arsenic Monitoring Station

SCALE	1:20000 (A4)	DATE	Jun 2020
CHECK	IT	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO.	7
REV	-		

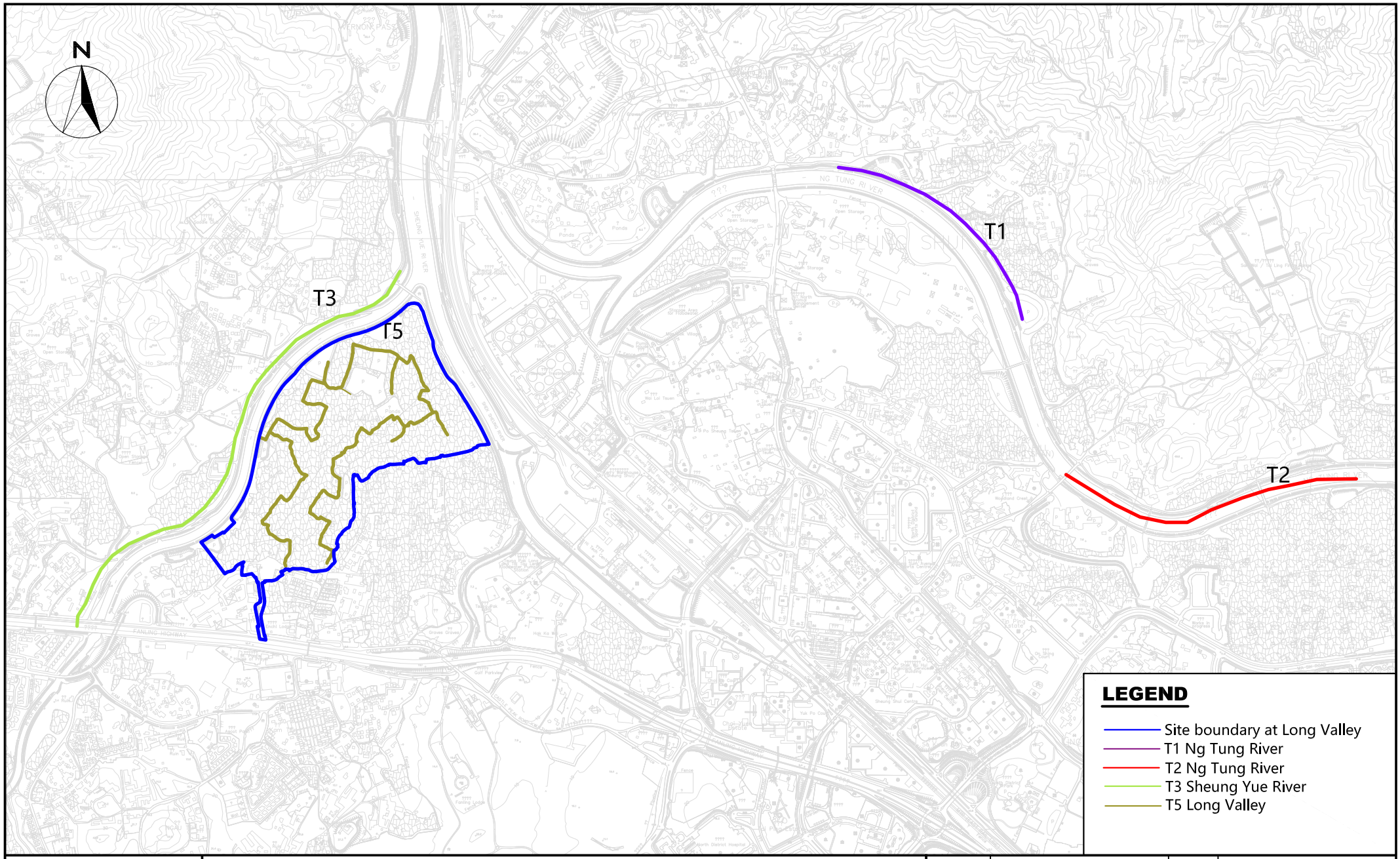


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Landfill Gas Monitoring

SCALE	A4 @ 1:40000	DATE	JAN 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 8	REV —

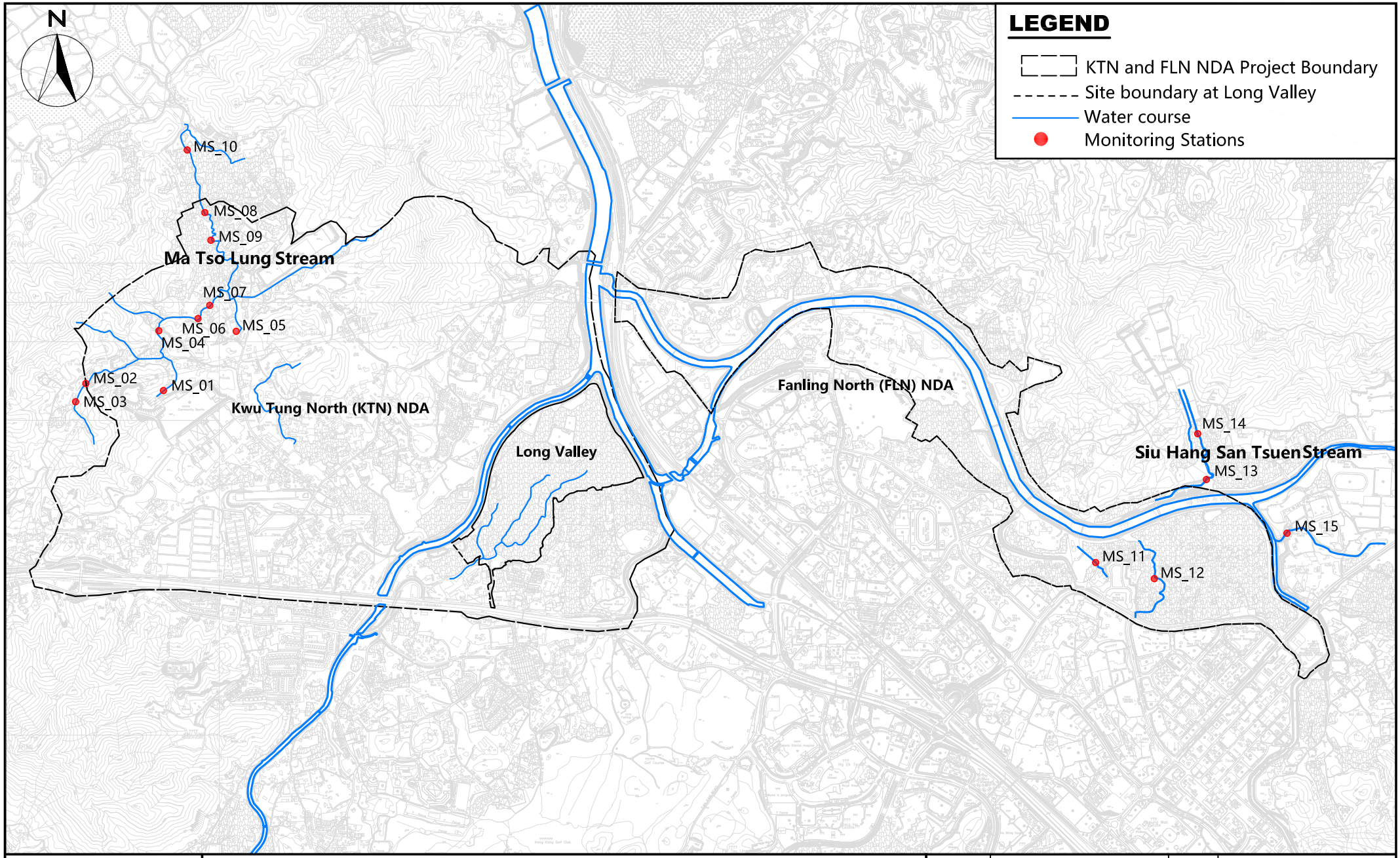


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung, Sheung Yue and Long Valley (Transect Routes for T1 - T3 & T5)

SCALE	A4 @ 1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
PROJECT No.	WMA20002	FIGURE NO. 9	REV —

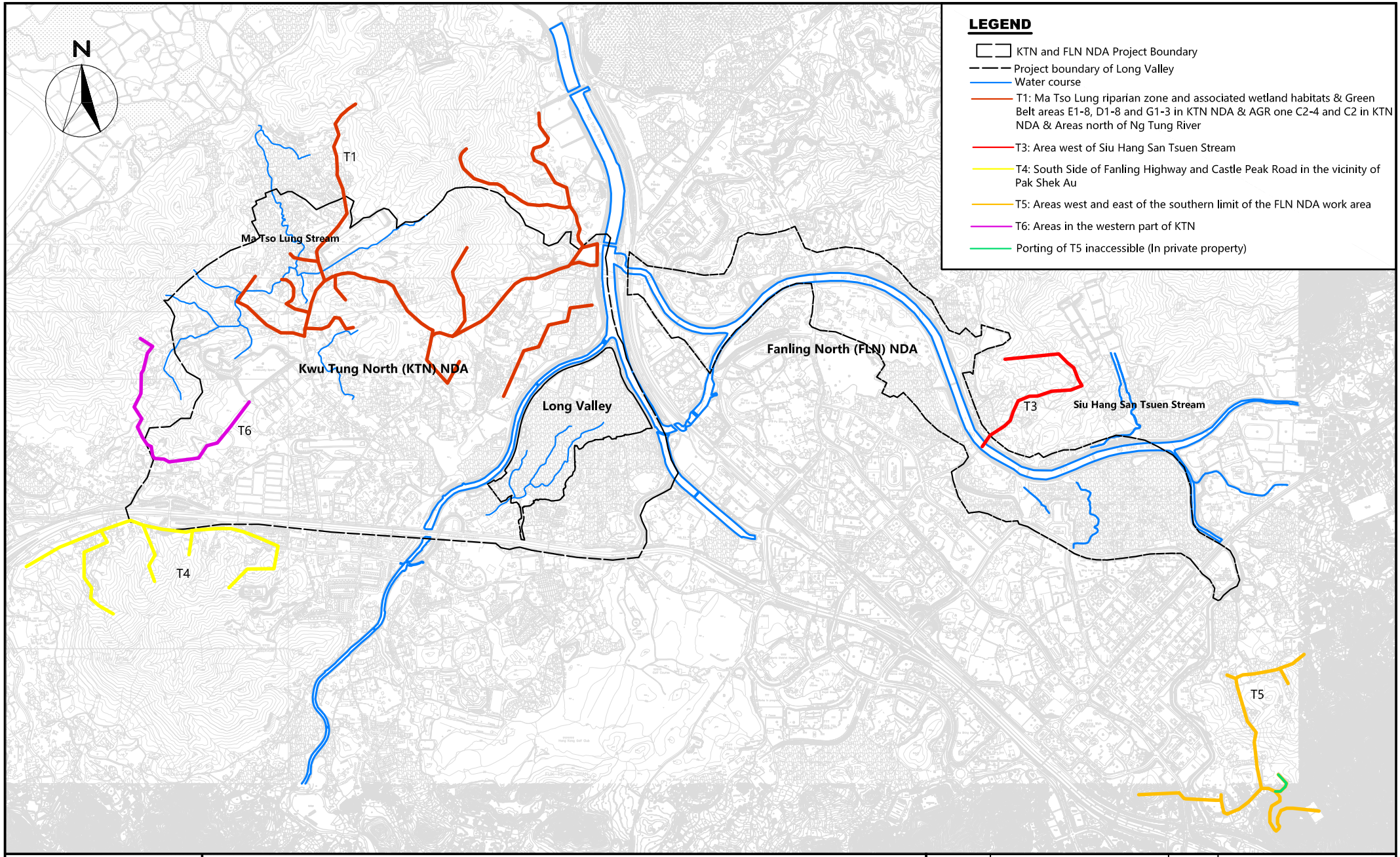


WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Monitoring Stations at Ma Tso Lung Stream and Siu Hang San Tsuen Stream

SCALE	A4 @ 1:60000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
PROJECT No.	WMA20002	FIGURE NO.	10
		REV	—



WELLAB 匯力
consulting . testing . research

Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

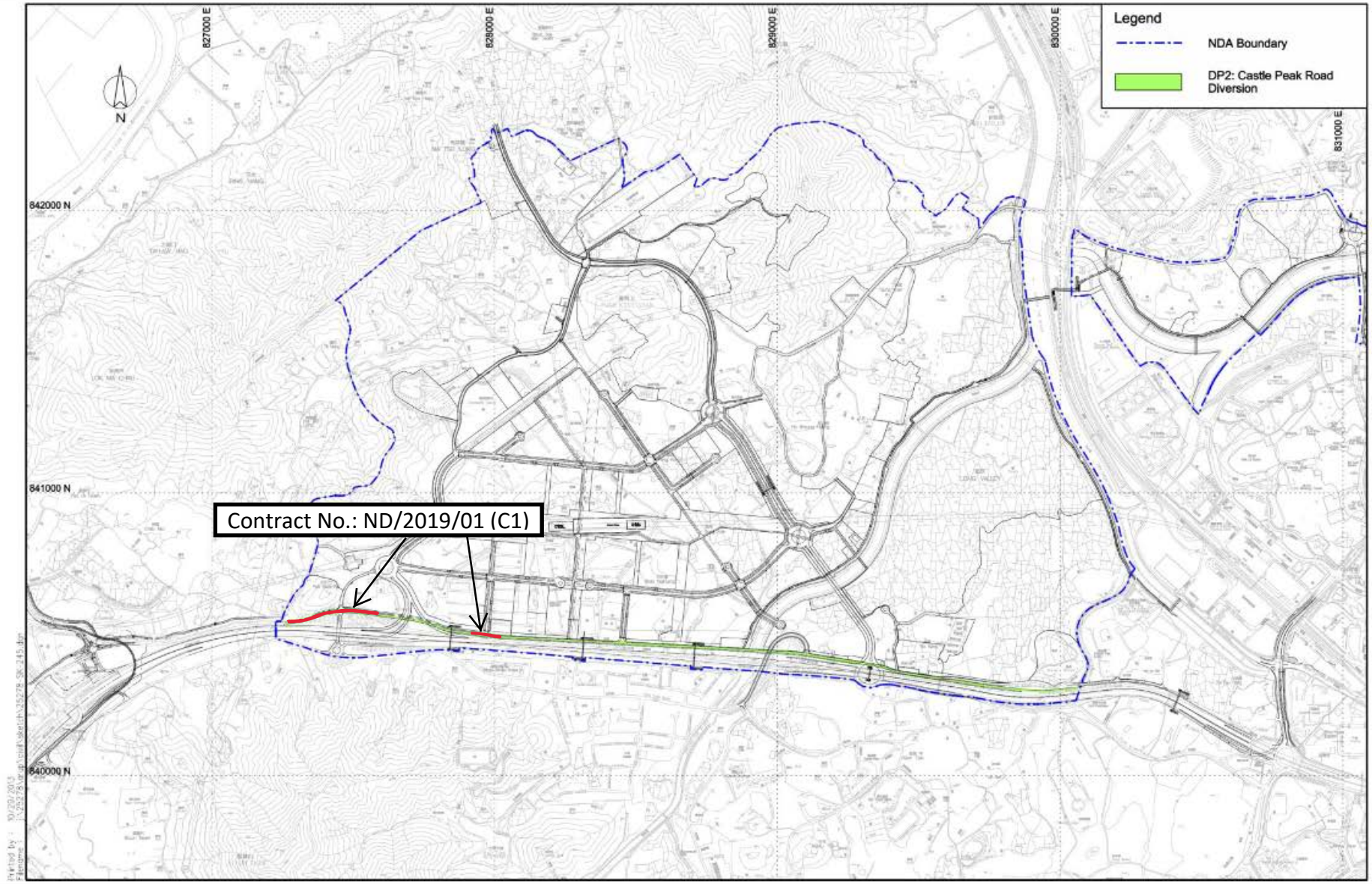
Location of Transect Route of Ecological Sensitive Habitats (Non-Aquatic Fauna) Transects (T1, T3-T6)

SCALE	A4 @ 1:70000	DATE	JUL 2021
CHECK	KL	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO.	11
		REV	–

Figure 12

Site Layout Plan of Contract ND/2019/01

under EP-466/2013/A



Project Title: Castle Peak Road Diversion

Figure 1: Location Plan for Castle Peak Road Diversion Project

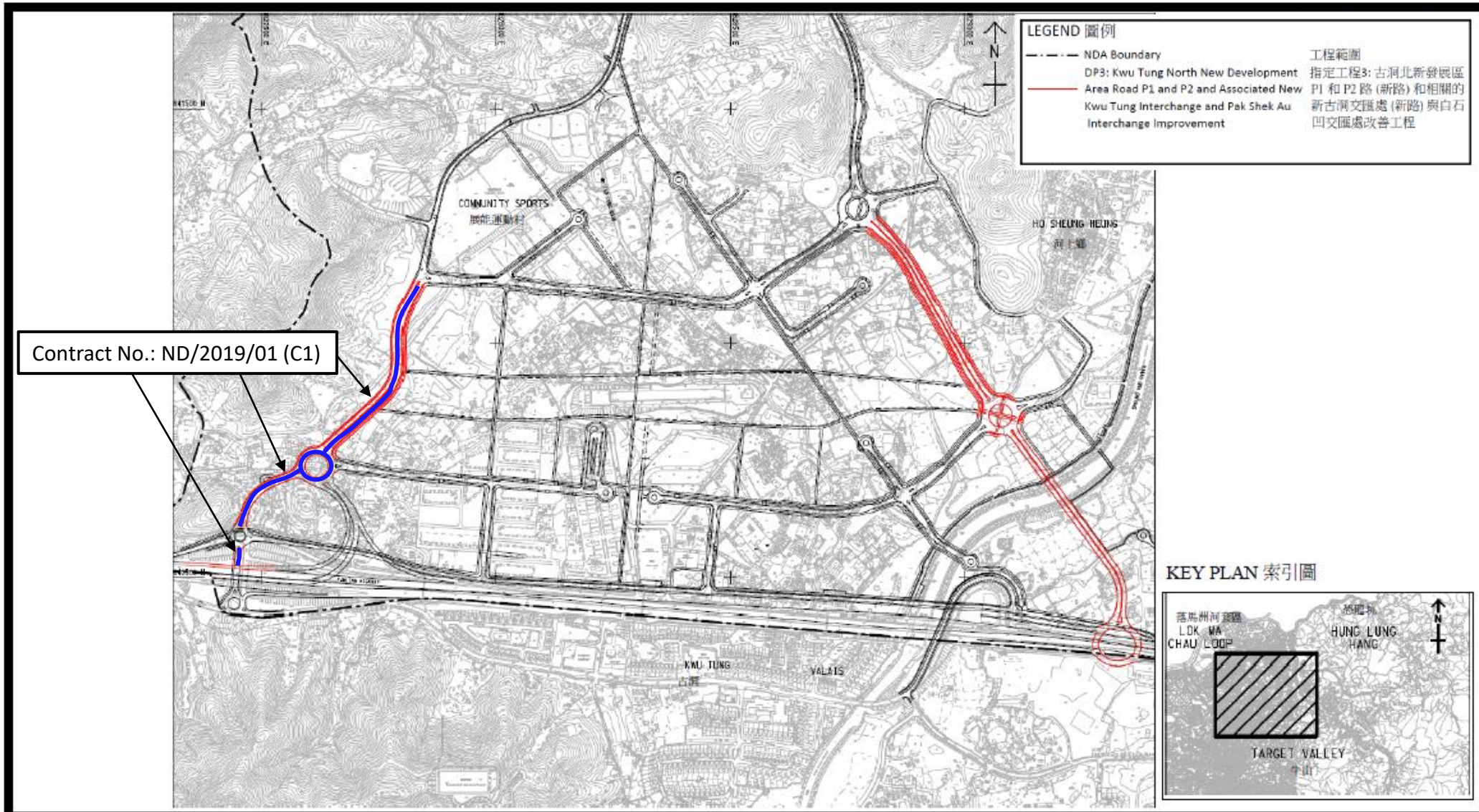
(Extracted from Drawing No. SK/245 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-466/2013/A

Figure 13

Site Layout Plan of Contract ND/2019/01

under EP-467/2013/A



Project Title: 工程名稱:	**Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement** 古洞北新發展區P1和P2路 (新路) 和相關的新古洞交匯處 (新路) 與白石凹交匯處改善工程

Figure 1: Location Plan for Interchange Improvement (Indicative)
(This figure was prepared based on Figure 1.2 of VEP application (No.: VEP-523/2016))

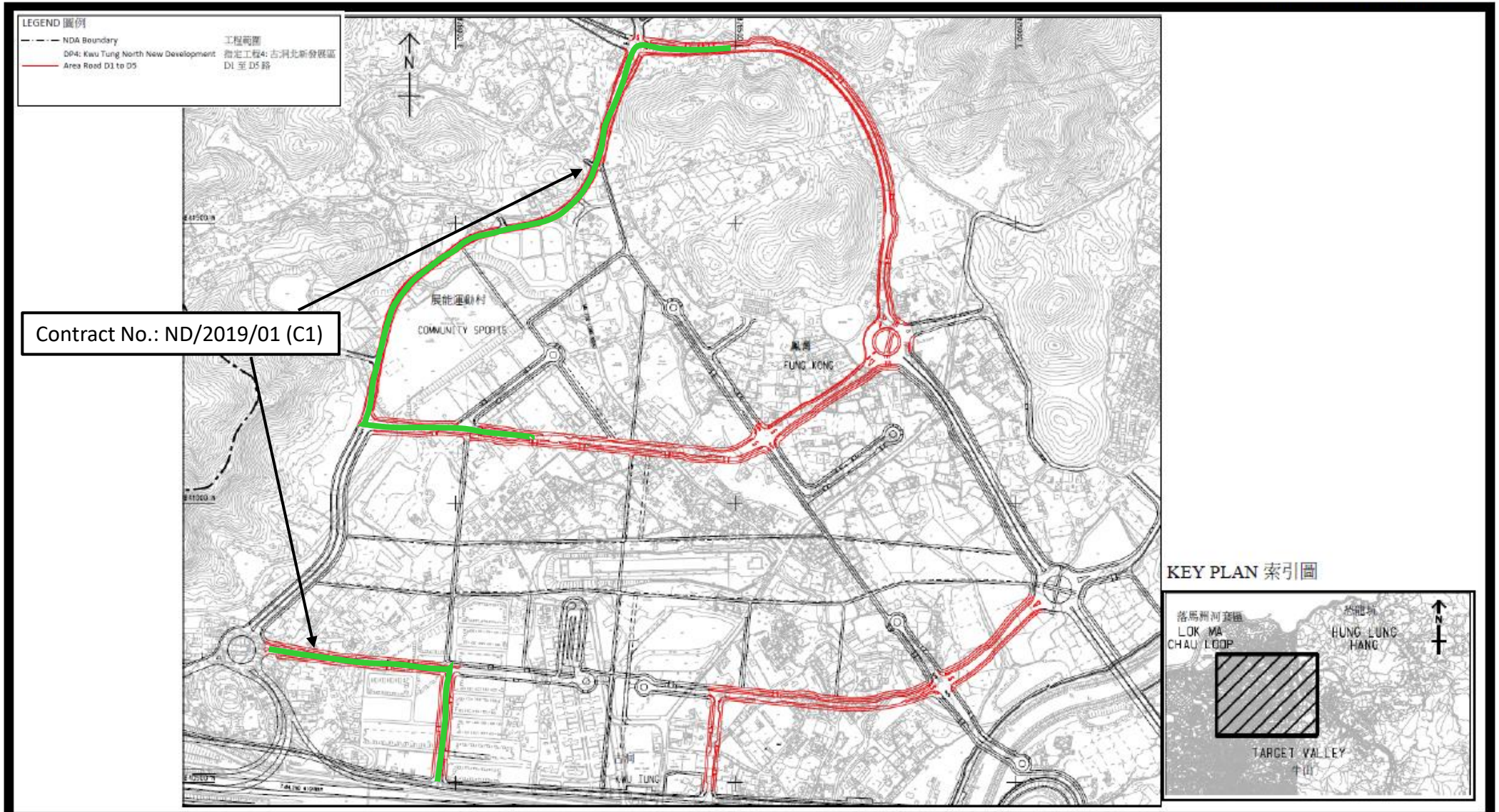
圖1：交匯處改善工程位置 (示意圖)
(本圖是根據申請更改環境許可證(編號: VEP-523/2016)圖1.2編制)

Environmental Permit No:
EP-467/2013/A
環境許可證編號：
EP-467/2013/A

Figure 14

Site Layout Plan of Contract ND/2019/01

under EP-468/2013/A



Project Title: 工程名稱:	**Kwu Tung North New Development Area Road D1 to D5** 古洞北新發展區D1至D5路

Figure 1: Location Plan for The Project (Indicative)
(This figure was prepared based on Figure 1.4 of VEP application (No.: VEP-524/2016))

圖1：工程項目位置 (示意圖)
(本圖是根據申請更改環境許可證(編號: VEP-524/2016)圖1.4編制)

Environmental Permit No:
EP-468/2013/A
環境許可證編號：
EP-468/2013/A

Figure 15

Site Layout Plan of Contract ND/2019/03

under EP-468/2013/A

Project Management Initials: Designer: KCTL Checked: CYCH Approved: IHWL ISO A1 594mm x 841mm

LEGEND:

SITE BOUNDARY

C3 Site Boundary

829000 E | 830000 E | 831000 E

842000 N | 841000 N | 840000 N

SHEET 1 OF 14 | SHEET 2 OF 14 | SHEET 3 OF 14 | SHEET 4 OF 14 | SHEET 5 OF 14 | SHEET 6 OF 14 | SHEET 7 OF 14 | SHEET 8 OF 14 | SHEET 9 OF 14 | SHEET 10 OF 14 | SHEET 11 OF 14 | SHEET 12 OF 14 | SHEET 13 OF 14 | SHEET 14 OF 14

HO SHEUNG HEUNG | YIN KONG | LONG VALLEY | SHEK WU HUI | SHEUNG SHUI 上水 | SHEK WU HUI SEWAGE TREATMENT PLANT

MTR LOK MA CHAU SPUR LINE | MTRC EAST RAIL LINE

CASTLE PEAK ROAD - KWU TUNG | FANLING HIGHWAY | CASTLE PEAK ROAD - KWU TUNG | FANLING HIGHWAY | FANLING HIGHWAY

SHEUNG YUE RIVER | SHEUNG YUE RIVER | NG TUNG RIVER | NG TUNG RIVER | SHEK SHEUNG RIVER

PO SHEK WU ROAD | TIN PING ROAD | JOCKEY CLUB ROAD | SAN WAN ROAD | SAN WAN PO ROAD

Plot File by: Yauky
PATH: P:\Projects\60335576\DRAWING\CONTRACT\C3\C3_C00_1000.dgn
11/6/2019

This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

Sang Hing - Kuly Venture

Title of Designated Project
Kwu Tung North New Development Area Road D1 to D5

CLIENT 業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 復核
-	JUN-19	TENDER DRAWING	CYCH

STATUS 階段

SCALE 比例
A1 1 : 5000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號
60335576

CONTRACT NO. 合約編號
ND/2019/03

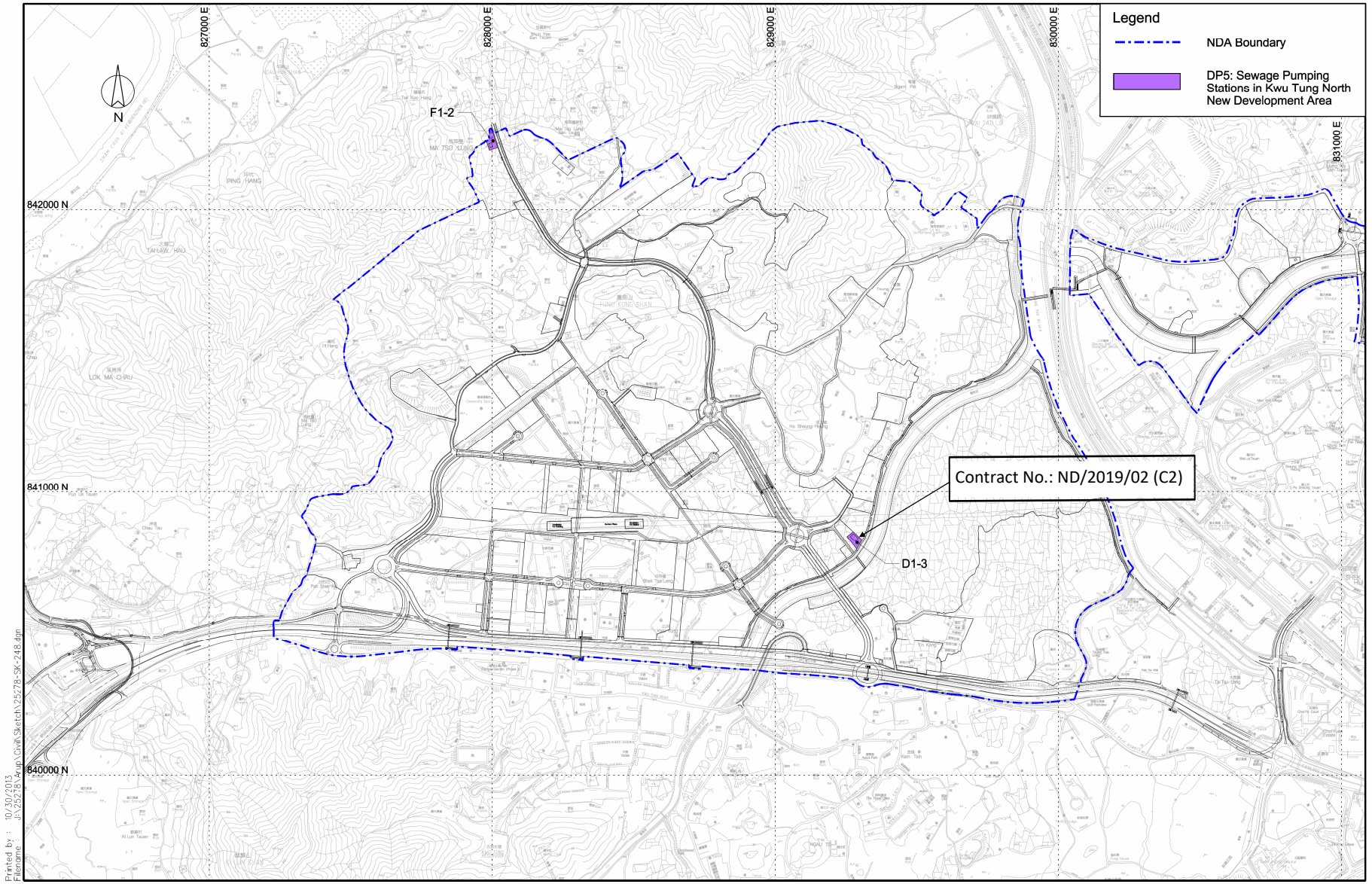
SHEET TITLE 圖紙名稱
KEY PLAN OF GENERAL LAYOUT

SHEET NUMBER 圖紙編號
60335576/C3/C00/1000

Figure 16

Site Layout Plan of Contract ND/2019/02

under EP-469/2013



Project Title: Sewage Pumping Stations in Kwu Tung North New Development Area

Figure 1: Location Plan for the Proposed Pumping Stations

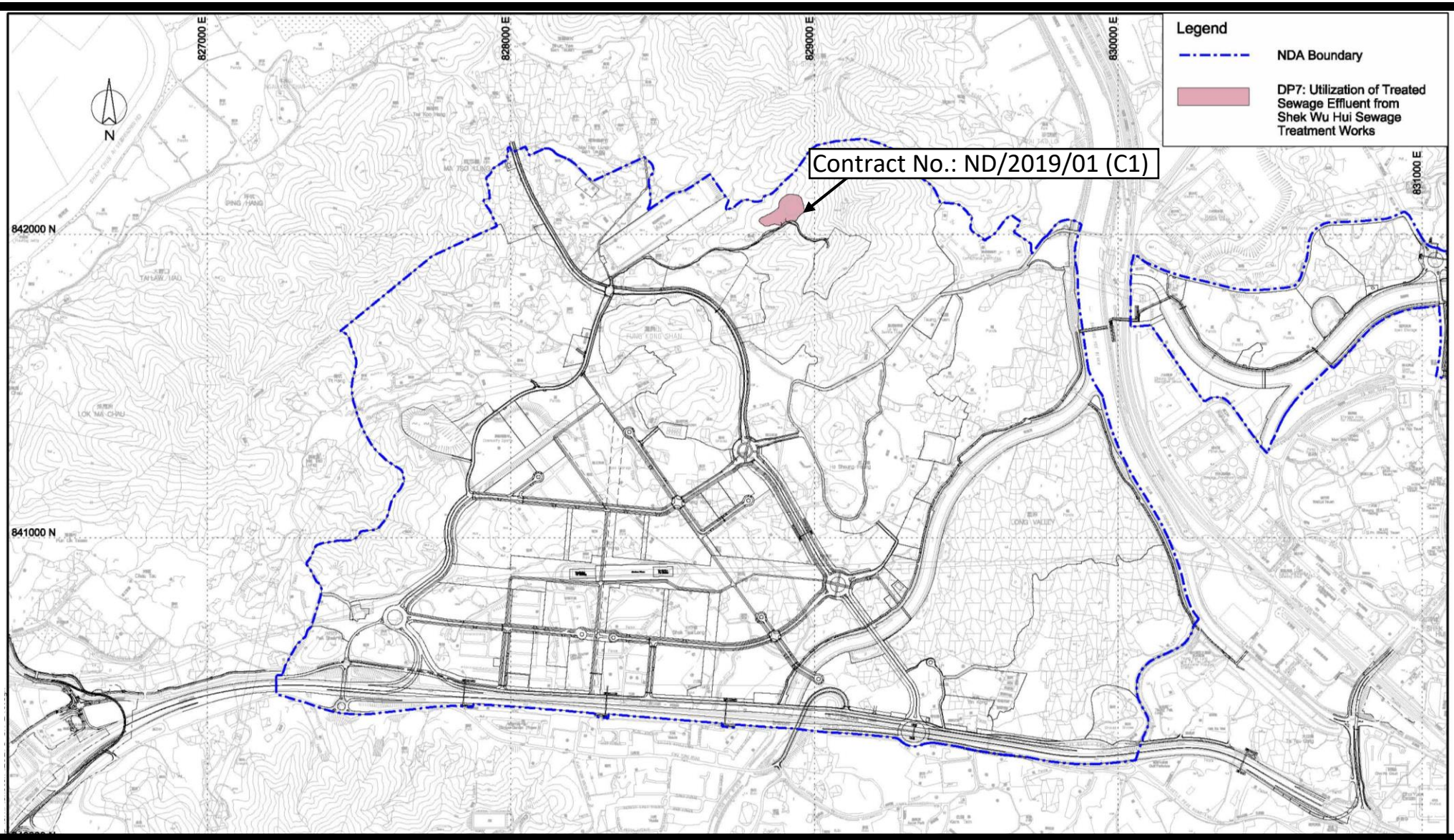
(Extracted from Drawing No. SK/248 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-469/2013

Figure 17

Site Layout Plan of Contract ND/2019/01

under EP-470/2013/A



Project Title: Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works

Figure 1: Location Plan for the Project

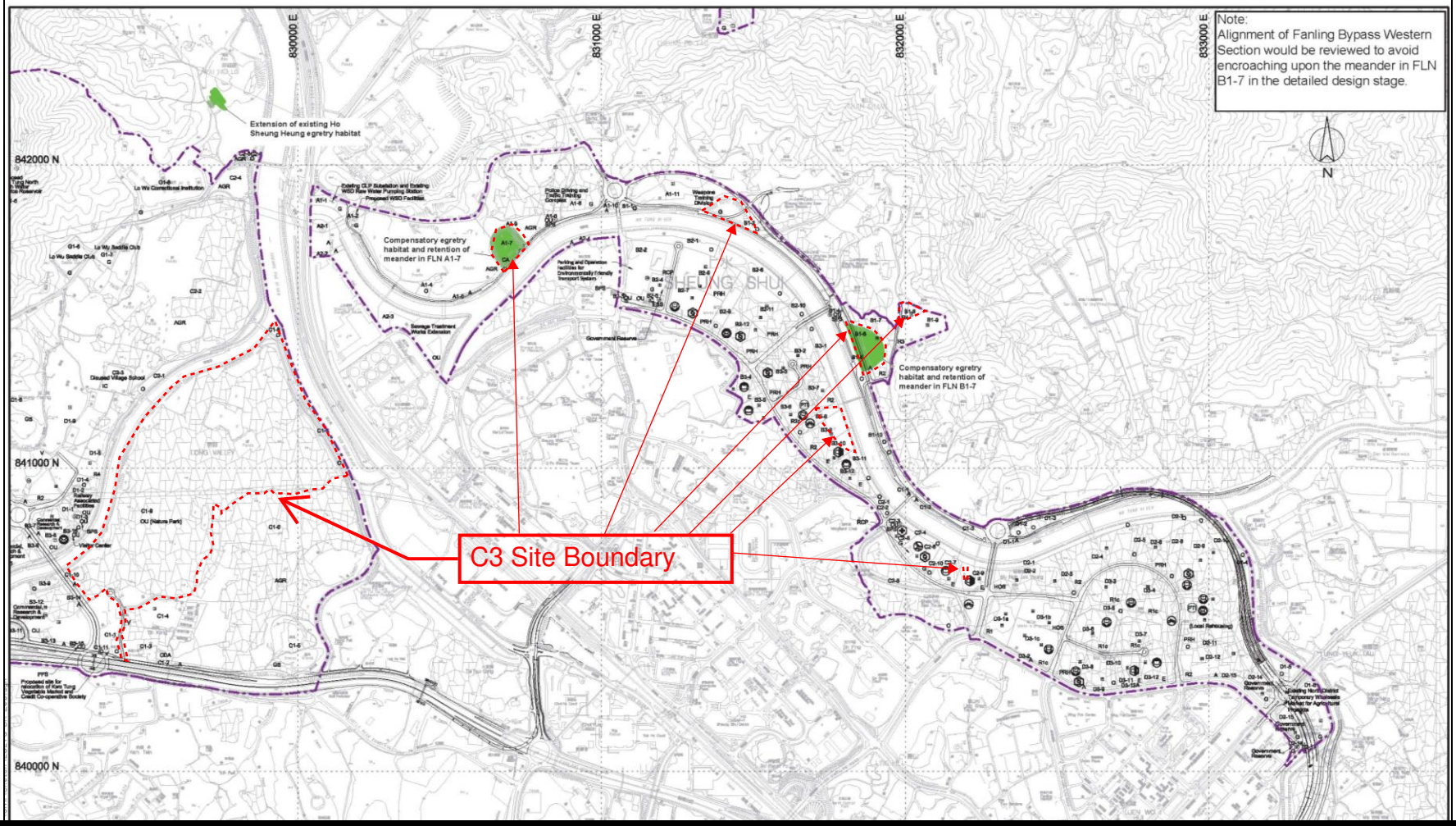
(Extracted from Drawing No. SK/249 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-470/2013/A

Figure 18

Site Layout Plan of Contract ND/2019/03

under EP-473/2013/A



Project Title: 工程名稱:	**Fanling Bypass Eastern Section** 粉嶺繞道東段
Figure 2: 圖 2:	**Location of Alternative Egretry Sites and Retained Meanders** 替代鷺鳥林選址和保留河曲的位置

(Extracted from Drawing No. SK/254 of North East New Territories New Development Area Planning and Engineering Study)

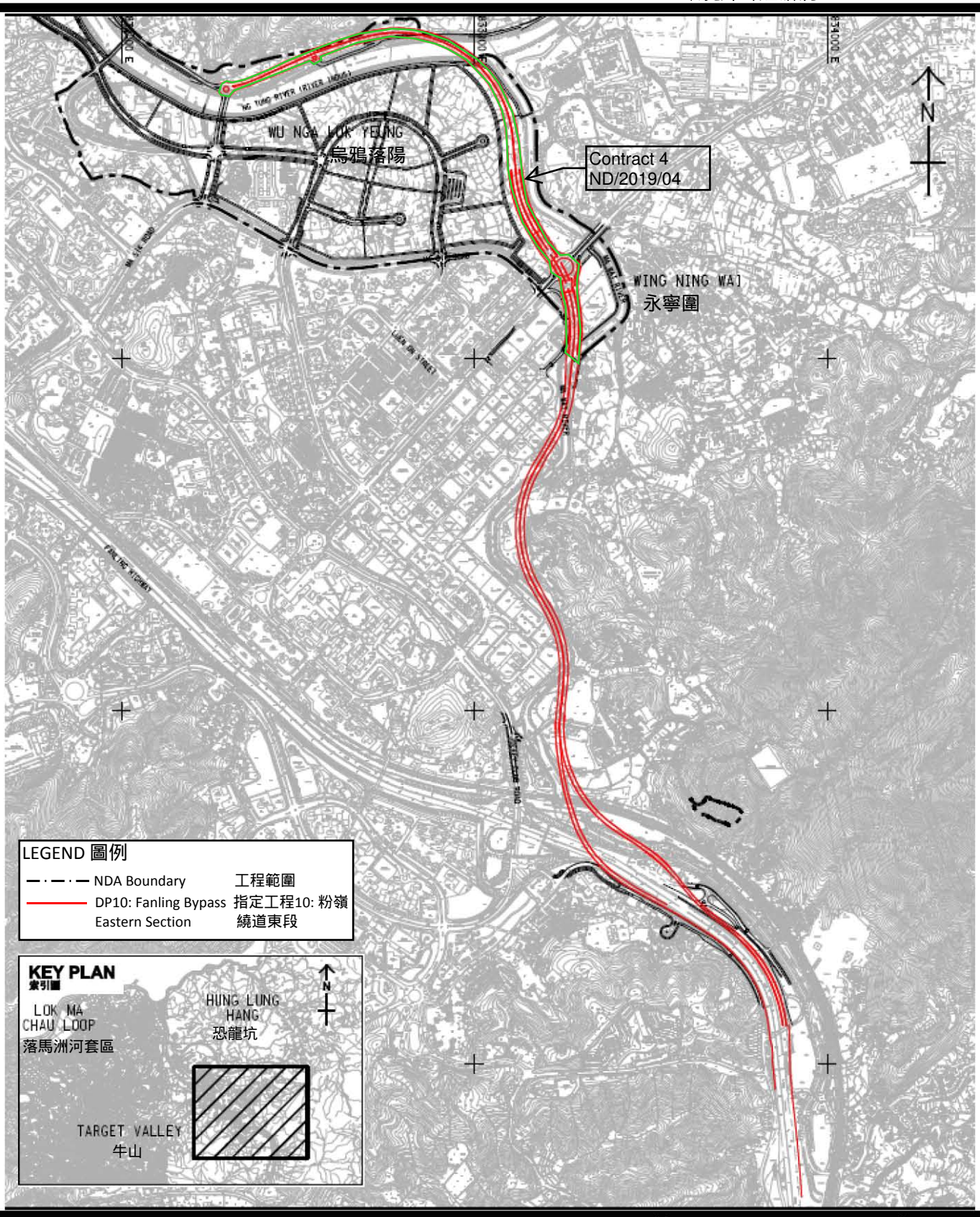
(摘錄自新界東北新發展區規劃及工程研究 圖: SK/254)

Environmental Permit No:
EP-473/2013/A
環境許可證編號：EP-473/2013/A

Figure 19

Site Layout Plan of Contract ND/2019/04

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

Figure 1: Location Plan for the Project (Indicative)

圖 1: 工程項目位置 (示意圖)

This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)

本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

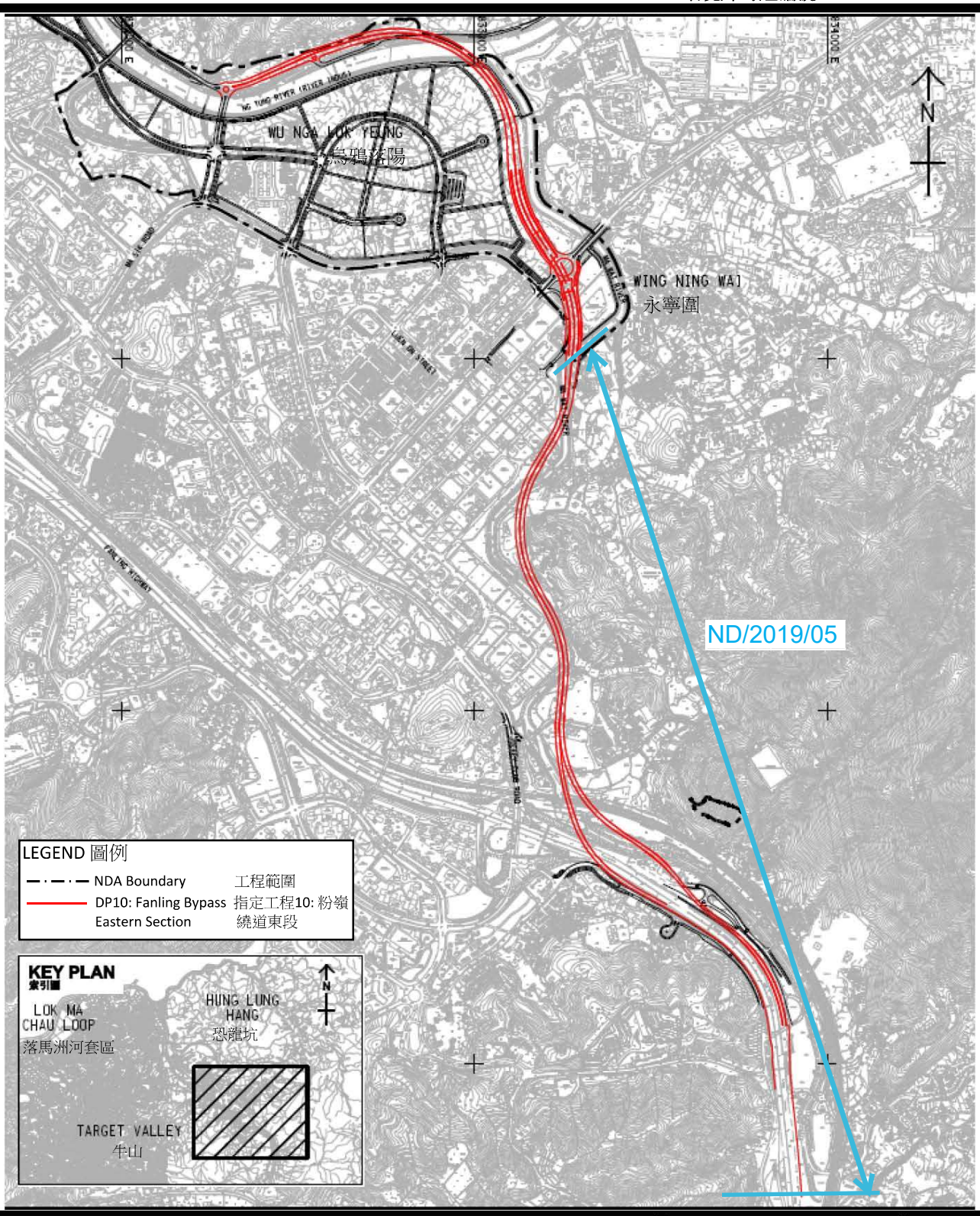
Environmental Permit No: EP-473/2013/A

環境許可證編號: EP-473/2013/A

Figure 20

Site Layout Plan of Contract ND/2019/05

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section
工程名稱: 粉嶺繞道東段

Figure 1: Location Plan for the Project (Indicative)
圖 1: 工程項目位置 (示意圖)

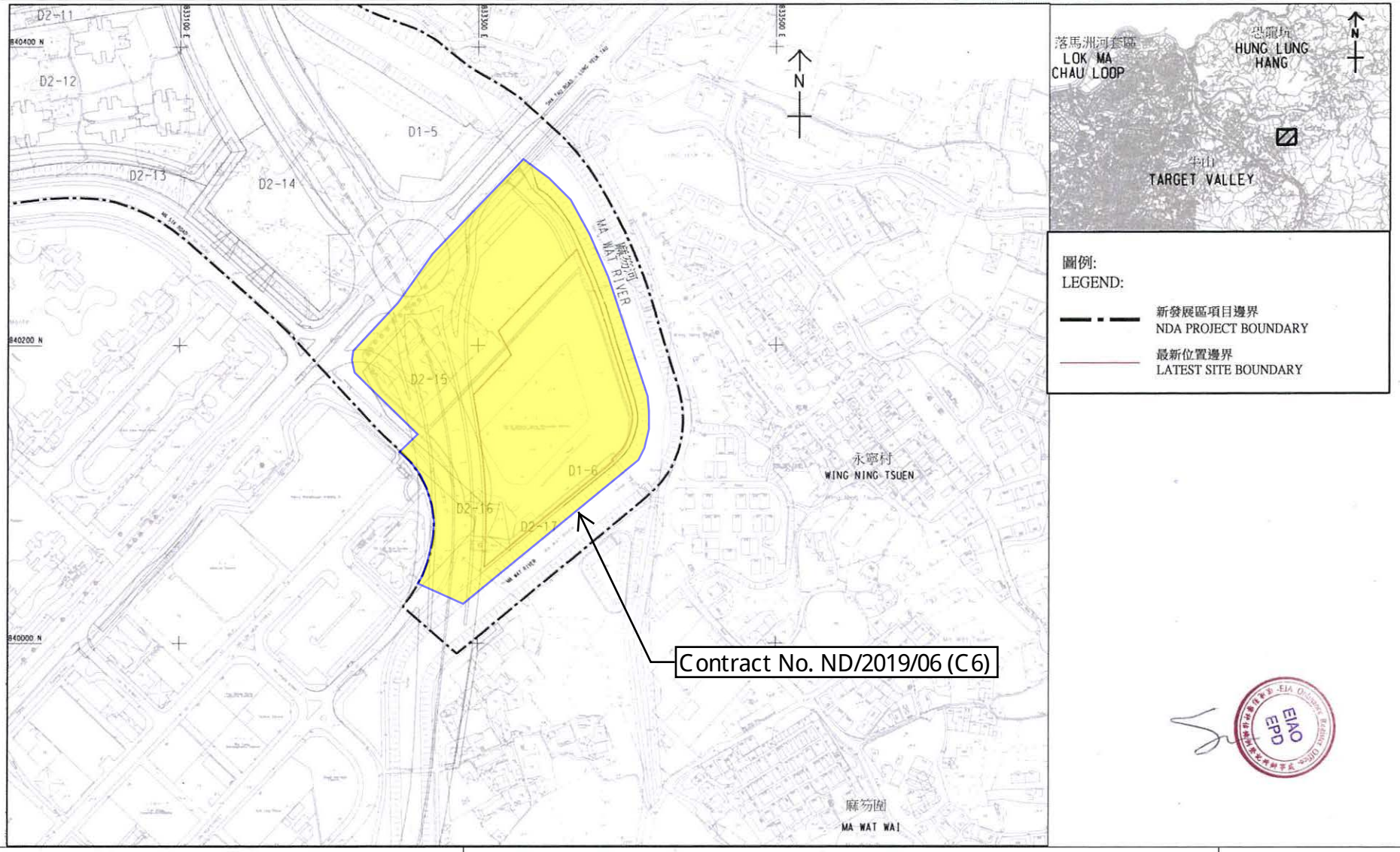
This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)
本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

Environmental Permit No: EP-473/2013/A
環境許可證編號: EP-473/2013/A

Figure 21

Site Layout Plan of Contract ND/2019/06

under EP-475/2013/A



Project Title: NENT - Reprovision of temporary Wholesale Market in Fanling North New Development Area
工程名稱：粉嶺北新發展區重置臨時批發市場

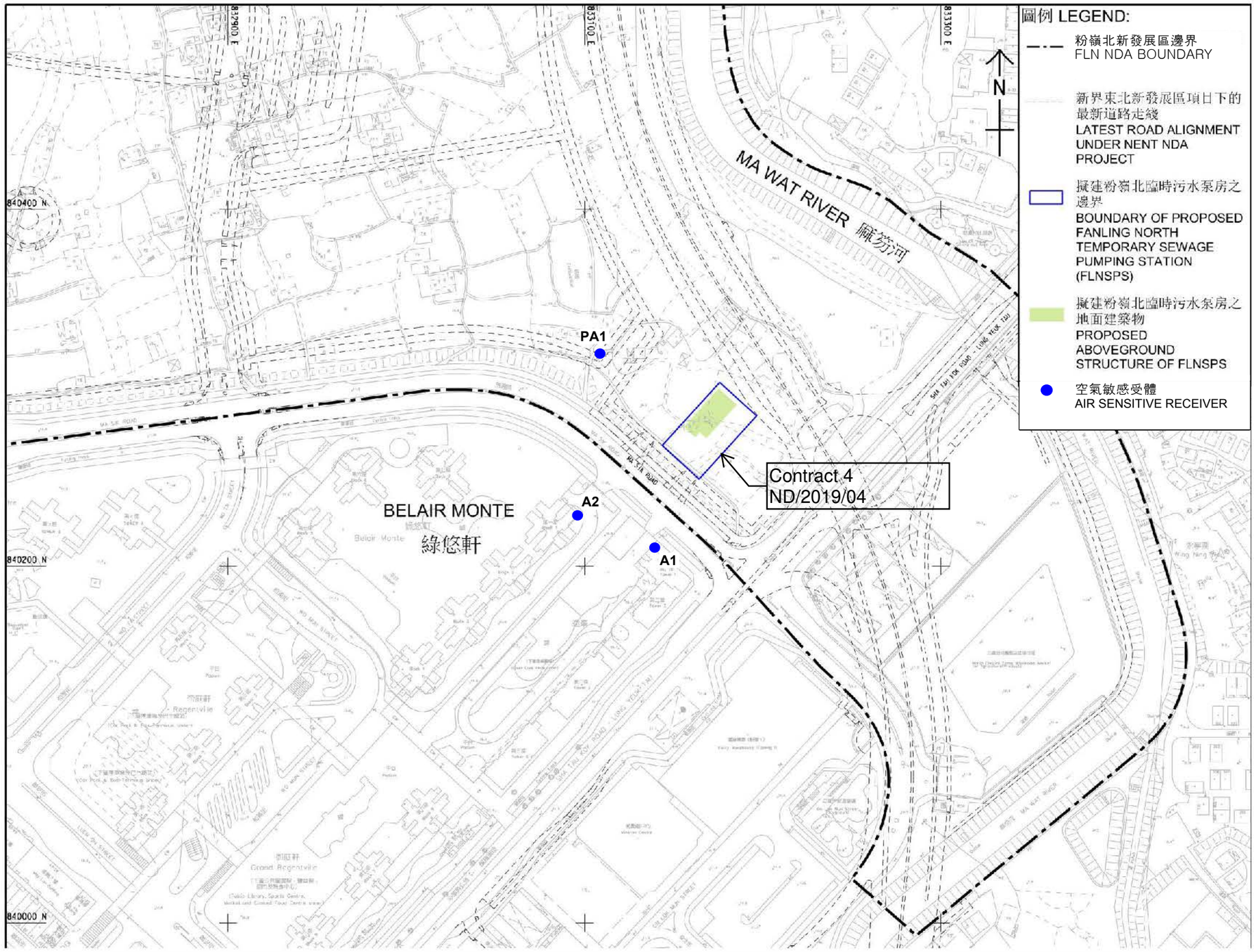
Environmental Permit No.: EP-475/2013/A
環境許可證編號 ：EP-475/2013/A

Figure 1: Project Location Plan (Indicative)
圖 1：工程項目位置圖 (示意圖)
(This figure was prepared based on Figure 1.1 of VEP application (No.: VEP-516/2016))
(本圖是根據申請更改環境許可證(編號 VEP-516/2016) 圖 1.1 編制)

Figure 22

Site Layout Plan of Contract ND/2019/04

under EP-546/2017



Project Title: Fanling North Temporary Sewage Pumping Station
工程名稱：粉嶺北臨時污水泵房

Environmental Permit No.: EP-546/2017
環境許可證編號　　：**EP-546/2017**

Figure 1: Project Location Plan (Indicative)
圖 1：工程項目位置圖 (示意圖)
(This figure was prepared based on Figure 1.1 of Project Profile No: PP-557/2017
(本圖是根據工程項目簡介編號: PP-557/2017 圖 1.1 編制)

APPENDIX A
CONSTRUCTION PROGRAMME

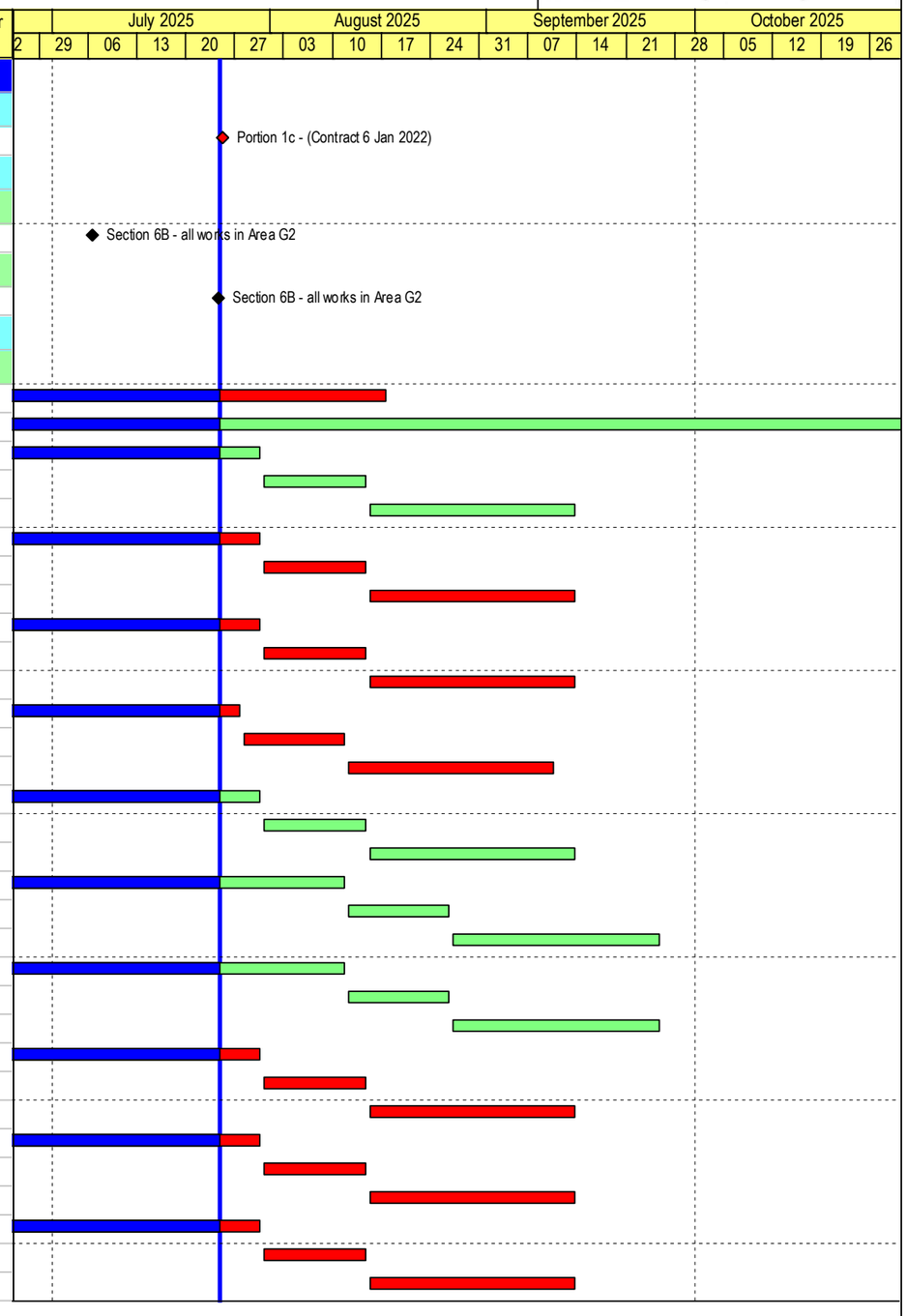
Construction Programme of ND/2019/01

ND/2019/01 - Kwu Tung North New Development Area, Phase 1:Site Formation and Infrastructure Works

AECOM

CEDD 土木工程拓展署 Civil Engineering and Development Department

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Revised Programme (2025-07-25) Rev.0 draft						
2.0 - Site Access Dates						
AD-1020	Portion 1c - (Contract 6 Jan 2022)	0	25-Jul-25*		-1296	CD(7d)
3.0 - Site Completion Dates						
3.1 Sectional Work Completion (Orignial Contract Completion Date)						
SC0-1090	Section 6B - all works in Area G2	0		06-Jul-25 A		CD(7d)
3.2 Planned Sectional Work Completeion						
SC-1090	Section 6B - all works in Area G2	0		24-Jul-25 A		CD(7d)
6.0 - Prelimiaries and General Requirements						
6.2 - General Submissions						
GS-1230	Submission of Major Method Statements	24	06-Dec-19 A	17-Aug-25	-234	CD(7d)
GS-1290	Preparation and Submission of Fully Corodinated BIM	370	21-Aug-20 A	23-Oct-26	148	CD(7d)
GS-1310.0	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	553	CD(7d)
GS-1310.2	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	553	CD(7d)
GS-1310.4	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	553	CD(7d)
GS-1320.0	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-162	CD(7d)
GS-1320.2	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-162	CD(7d)
GS-1320.4	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-162	CD(7d)
GS-1330.0	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-155	CD(7d)
GS-1330.2	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-155	CD(7d)
GS-1330.4	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-155	CD(7d)
GS-1340.0	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO542 Approval (CE 268)	3	12-Feb-25 A	27-Jul-25	-183	CD(7d)
GS-1340.2	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Submission (CE 268)	15	28-Jul-25	11-Aug-25	-183	CD(7d)
GS-1340.4	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Approval (CE 268)	30	12-Aug-25	10-Sep-25	-183	CD(7d)
GS-1350.0	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO542 Approval (CE 268)	6	12-Feb-25 A	30-Jul-25	62	CD(7d)
GS-1350.2	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Submission (CE 268)	15	31-Jul-25	14-Aug-25	62	CD(7d)
GS-1350.4	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Approval (CE 268)	30	15-Aug-25	13-Sep-25	62	CD(7d)
GS-1360.0	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	11-Aug-25	62	CD(7d)
GS-1360.2	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO46 Part I II Submission	15	12-Aug-25	26-Aug-25	62	CD(7d)
GS-1360.4	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO46 Part I II Approval	30	27-Aug-25	25-Sep-25	62	CD(7d)
GS-1370.0	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	11-Aug-25	62	CD(7d)
GS-1370.2	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO46 Part I II Submission	15	12-Aug-25	26-Aug-25	62	CD(7d)
GS-1370.4	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO46 Part I II Approval	30	27-Aug-25	25-Sep-25	62	CD(7d)
GS-1380.0	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-401	CD(7d)
GS-1380.2	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-401	CD(7d)
GS-1380.4	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-401	CD(7d)
GS-1390.0	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-33	CD(7d)
GS-1390.2	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-33	CD(7d)
GS-1390.4	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-33	CD(7d)
GS-1400.0	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-26	CD(7d)
GS-1400.2	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-26	CD(7d)
GS-1400.4	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-26	CD(7d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

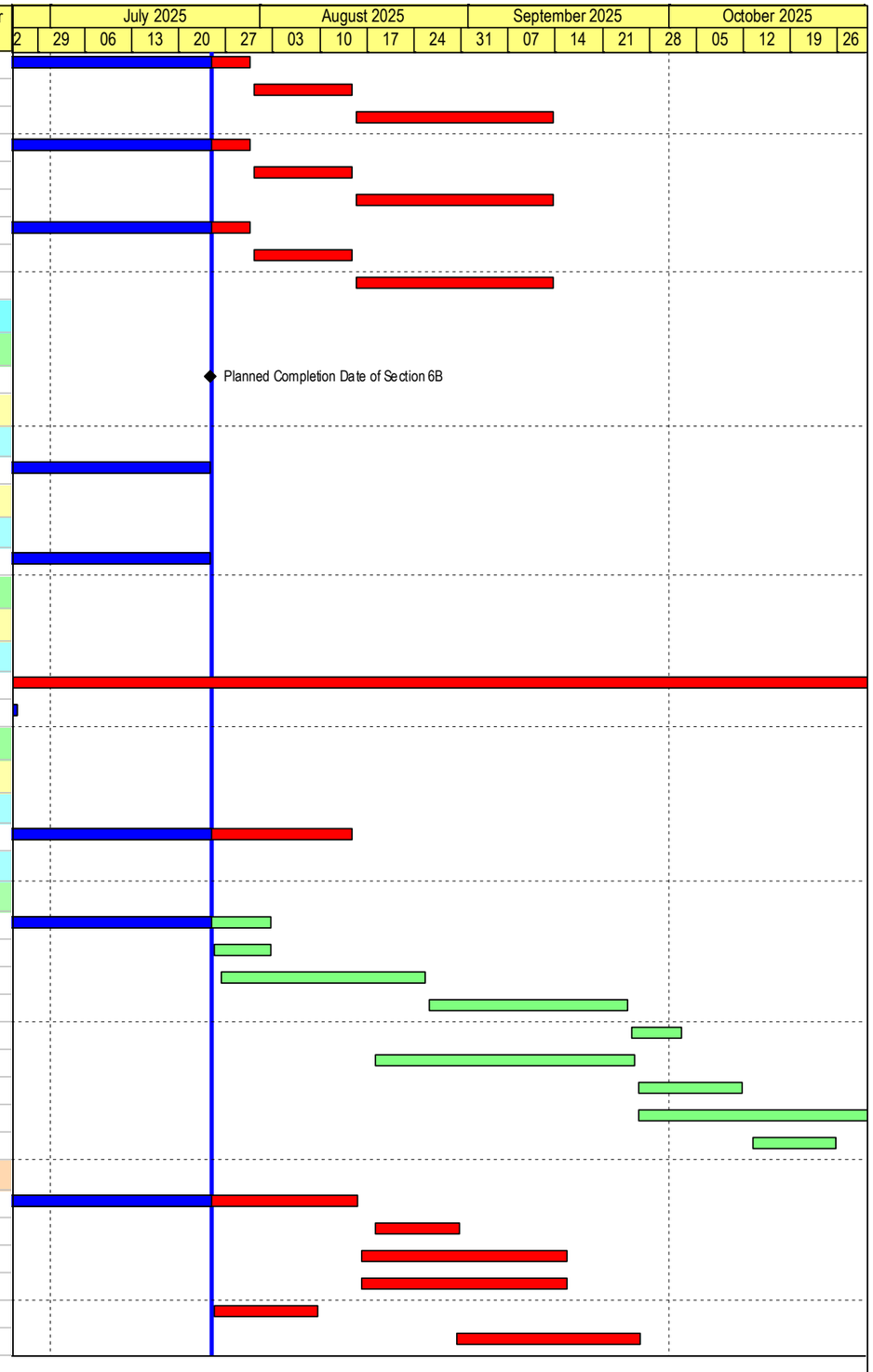
Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
GS-1410.0	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-191	CD(7d)
GS-1410.2	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-191	CD(7d)
GS-1410.4	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-191	CD(7d)
GS-1420.0	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-248	CD(7d)
GS-1420.2	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-248	CD(7d)
GS-1420.4	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-248	CD(7d)
GS-1430.0	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Jul-25	-298	CD(7d)
GS-1430.2	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Submission	15	31-Jul-25	14-Aug-25	-298	CD(7d)
GS-1430.4	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Approval	30	15-Aug-25	13-Sep-25	-298	CD(7d)
7.0 Construction						
Section 6B						
S6B-1000	Planned Completion Date of Section 6B	0		24-Jul-25 A		CD(7d)
Portion 1e in Area G2 (Soil Treatment)						
Soil Treatment						
S6BP1e-2020	Site Clearance and Miscellanous works	0	10-May-25 A	24-Jul-25 A		CD(7d)
Portion 11b in Area G2 (Soil Treatment)						
Soil Treatment						
S6BP11b-2020	Site Clearance and Miscellanous works	0	10-May-25 A	24-Jul-25 A		CD(7d)
Section 6C						
Portion 11b in Area G3 (Soil Treatment)						
Soil Treatment						
S6CP11b-2000	Construct & maintain Temporary drainage	136	25-Jun-25 A	06-Jan-26	0	WD(6d)
S6CP11b-2010	Remove soil (original assumed 2685m3) (1 / 1 EGI completed, soil to be excavated / treated : 0m3 / 0m3) Clean Soil	0	25-Jun-25 A	26-Jun-25 A		WD(6d)
Section 8						
Portion 2 in Area A (Soil Treatment & Construction of Pak Shek Au Junction)						
Soil Treatment						
S8P2-2020	Backfilling to the formation levels	18	05-Feb-25 A	14-Aug-25	-186	WD(6d)
Civil Work						
Construction of Pak Shek Au Junction						
S8P2-4100.16	Cut slope KS34 - Trim Sheet Pile along KS34 Bay 2 - 4 (slope side)	8	06-May-25 A	02-Aug-25	53	WD(6d)
S8P2-4100.180	Cut slope KS34 - Trim Sheet Pile along KS34 Bay 1 - 2 (slope side)	8	25-Jul-25	02-Aug-25	484	WD(6d)
S8P2-4100.38	Cut slope KS34 - Remaining Soil Nail	26	26-Jul-25	25-Aug-25	53	WD(6d)
S8P2-4100.40	Cut slope KS34 - Remaining U-channel & Maintenance Access	26	26-Aug-25	24-Sep-25	53	WD(6d)
S8P2-4102	New Feature KS34 - Hydroseeding	6	25-Sep-25	02-Oct-25	53	WD(6d)
S8P2-5000	New Formed Slope KS35 Rock fill	34	18-Aug-25	25-Sep-25	93	WD(6d)
S8P2-5002	New Formed Slope KS35 Rock fill - Construct Slope Drain	12	26-Sep-25	11-Oct-25	93	WD(6d)
S8P2-5010	Existing Feature 2SE-B/F97 Loose Fill to be Replaced by Compact fill	30	26-Sep-25	03-Nov-25	100	WD(6d)
S8P2-6000	New Formed Slope KS35 Compact fill - Hydroseeding	12	13-Oct-25	25-Oct-25	93	WD(6d)
Construction of Pak Shek Au Junction Stage 1						
S8P2-4120.110	ELS, Excav, Construct, Backfill Drainage SMHKT 1111a to KTRC1 (0 / 3 MH Complete) (Design changed)	19	02-Jan-25 A	15-Aug-25	-187	WD(6d)
S8P2-4120.112	Trial Trench, ELS, Excav, Construct Drainage SMHKTRC1a to KTRC1b (0 / 1 MH Complete)	12	18-Aug-25	30-Aug-25	-174	WD(6d)
S8P2-4130.40	Back Filling and Construct Secondary Drainage M6.06 to M6.08 and Gullies (0 / 3 MH Complete)	26	16-Aug-25	15-Sep-25	-187	WD(6d)
S8P2-4130.50	Road Formation, SRT, K1 Kerb (CE 520)	26	16-Aug-25	15-Sep-25	-187	WD(6d)
S8P2-4130.52	Slewing of Underground Utilities (EWN 116)	14	25-Jul-25	09-Aug-25	-170	WD(6d)
S8P2-4130.60	UU Diversion (132KV & 11KV CLP, Telecom) (EWN 116)	24	30-Aug-25	26-Sep-25	-187	WD(6d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

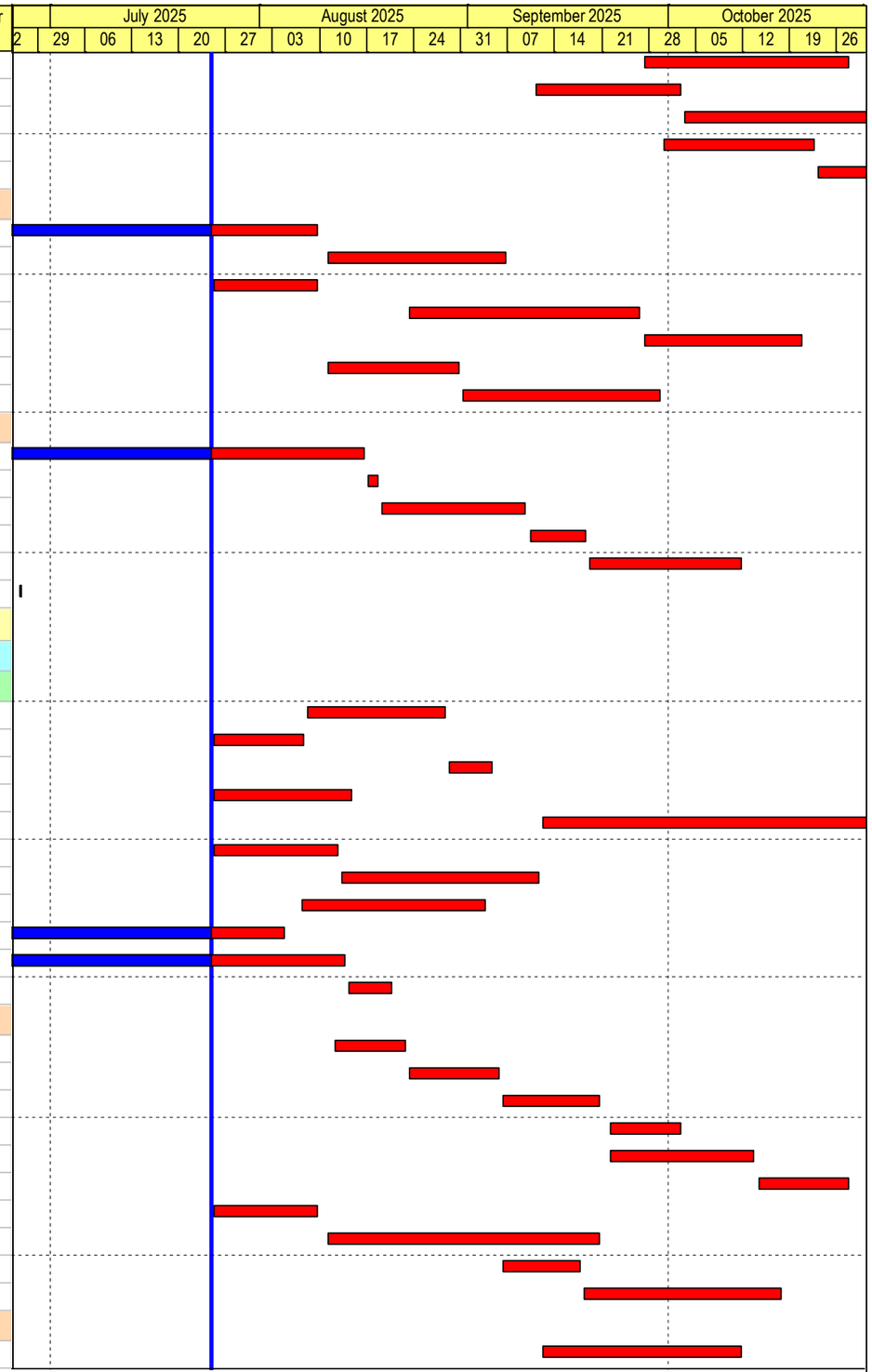
ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Layout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P2-4130.62	Road works (EWN 116)	24	27-Sep-25	27-Oct-25	-187	WD(6d)
S8P2-4134	Irrigation System Installation (CE 268)	18	11-Sep-25	02-Oct-25	-149	WD(6d)
S8P2-4136	T&C for Irrigation System (CE 268)	30	03-Oct-25	01-Nov-25	-184	CD(7d)
S8P2-4150	Road Lighting (EWN 116)	18	30-Sep-25	22-Oct-25	-132	WD(6d)
S8P2-4160	T&C for smart road lightings system (EWN 116)	30	23-Oct-25	21-Nov-25	-159	CD(7d)
Construction of Pak Shek Au Junction Stage 2						
S8P2-4130.70	Back Filling and Construct Secondary Drainage M6.06 conne & M6.03A to M6.30C and Gullies (4 / 5 MH Complete)	14	19-May-25 A	09-Aug-25	-181	WD(6d)
S8P2-4130.90	Road Formation, SRT, K1 Kerb (CE 520)	24	11-Aug-25	06-Sep-25	-181	WD(6d)
S8P2-4130.92	Slewing of Underground Utilities (EWN 116)	14	25-Jul-25	09-Aug-25	-170	WD(6d)
S8P2-4131.00	UU Diversion (132KV & 11KV CLP, Telecom) (EWN 116)	30	23-Aug-25	26-Sep-25	-181	WD(6d)
S8P2-4131.10	Road Works (EWN 116)	18	27-Sep-25	20-Oct-25	-181	WD(6d)
S8P2-4131.30	Road Lighting (EWN 116)	18	11-Aug-25	30-Aug-25	-158	WD(6d)
S8P2-4131.40	T&C for smart road lightings system (EWN 116)	30	31-Aug-25	29-Sep-25	-159	CD(7d)
Construction of Pak Shek Au Junction Stage 5						
S8P2-4120.10	ELS, Excavation, Laying and Backfill CHA Watermain + Valve Chamber (CHA20 - CHA60)	20	05-Jun-25 A	16-Aug-25	-175	WD(6d)
S8P2-4120.20	Setback kerb, Bitumen, Road marking modification & Implement TTA	2	17-Aug-25	18-Aug-25	-216	CD(7d)
S8P2-4120.30	ELS, Excavation, Laying and Backfill CHA Watermain + Valve Chamber (CHA0 - CHA20)	19	19-Aug-25	09-Sep-25	-174	WD(6d)
S8P2-4130.180	Watermain CHA - CCTV & Pressure Test	9	10-Sep-25	18-Sep-25	-212	CD(7d)
S8P2-4130.220	Reinstatement of Road (Pre-stage A to Stage K)	18	19-Sep-25	11-Oct-25	-174	WD(6d)
S8P2-7010	EMSD erect temporary traffic light on oil drum	0	26-Jun-25 A	26-Jun-25 A		CD(7d)
Portion 1a in Area A (Soil Treatment, Slope, Retaining Wall, Noise Barrier, Drainage & Roadwork)						
Civil Work						
South of Roundabout C3						
S8P1a-2048	Slopeworks for new feature KS34 Lower Bench - Slope Drainage and Maintenance Access (Stage 2)	18	08-Aug-25	28-Aug-25	-26	WD(6d)
S8P1a-2050	Slopeworks for new feature KS34 Lower Bench - Soil Nail Installation & Soil Nail Head Rows BC+BB+BA (7 + 7 +7 Nos)	12	25-Jul-25	07-Aug-25	-26	WD(6d)
S8P1a-2090	New Feature KS34 - Hydroseeding (Stage 2)	6	29-Aug-25	04-Sep-25	-26	WD(6d)
S8P1a-2356	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 60 to 135 - Maintenance Access	18	25-Jul-25	14-Aug-25	-80	WD(6d)
S8P1a-2372	Road Works	72	12-Sep-25	08-Dec-25	-104	WD(6d)
S8P1a-2380	Road Lighting	16	25-Jul-25	12-Aug-25	-98	WD(6d)
S8P1a-2390	T&C for smart road lightings system	30	13-Aug-25	11-Sep-25	-123	CD(7d)
S8P1a-2400	Slip Road - Formation and Roadworks	24	07-Aug-25	03-Sep-25	-97	WD(6d)
S8P1a-2600	New Formed Slope KS32 - Backfill with compacted soil (with SRT) (CNE 168)	9	20-Jul-24 A	04-Aug-25	-89	WD(6d)
S8P1a-2630	New Formed Slope KS32 - Trimming work and Remaining works (including Remaining Drainage)	17	16-May-25 A	13-Aug-25	-97	WD(6d)
S8P1a-2640	New Formed Slope KS32 - Hydroseeding	6	14-Aug-25	20-Aug-25	-85	WD(6d)
Construction of Pak Shek Au Junction Stage 3						
S8P1a-3008.0	Additional Trial Trench for Secondary Drainage (EWN 116)	10	12-Aug-25	22-Aug-25	-187	WD(6d)
S8P1a-3010	Construct Secondary Drainage M6.11 to M6.14 (0 / 4 MH Complete) (EWN 116)	12	23-Aug-25	05-Sep-25	-187	WD(6d)
S8P1a-3012	Construct Temp Cycle Track for Diversion & Implement TTA (EWN 116)	13	06-Sep-25	20-Sep-25	-187	WD(6d)
S8P1a-3014	Construct Secondary Drainage M6.14 connection to M6.14A (0 / 1 MH Complete) (EWN 116)	9	22-Sep-25	02-Oct-25	-187	WD(6d)
S8P1a-3016	Replace part of existing Cycle Track to Carriageway (EWN 116)	17	22-Sep-25	13-Oct-25	-187	WD(6d)
S8P1a-3020	Road Works (EWN 116)	12	14-Oct-25	27-Oct-25	-187	WD(6d)
S8P1a-6200.0	Slewing of Underground Utilities (EWN 116)	14	25-Jul-25	09-Aug-25	-170	WD(6d)
S8P1a-6210	UU Diversion (Telecom) (EWN 116)	36	11-Aug-25	20-Sep-25	-170	WD(6d)
S8P1a-6220	Road Lighting (EWN 116)	10	06-Sep-25	17-Sep-25	-181	WD(6d)
S8P1a-6230	T&C for smart road lightings system (EWN 116)	30	18-Sep-25	17-Oct-25	-220	CD(7d)
Construction of Pak Shek Au Junction Stage 4						
S8P1a-6110	Road Works	24	12-Sep-25	11-Oct-25	-174	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25

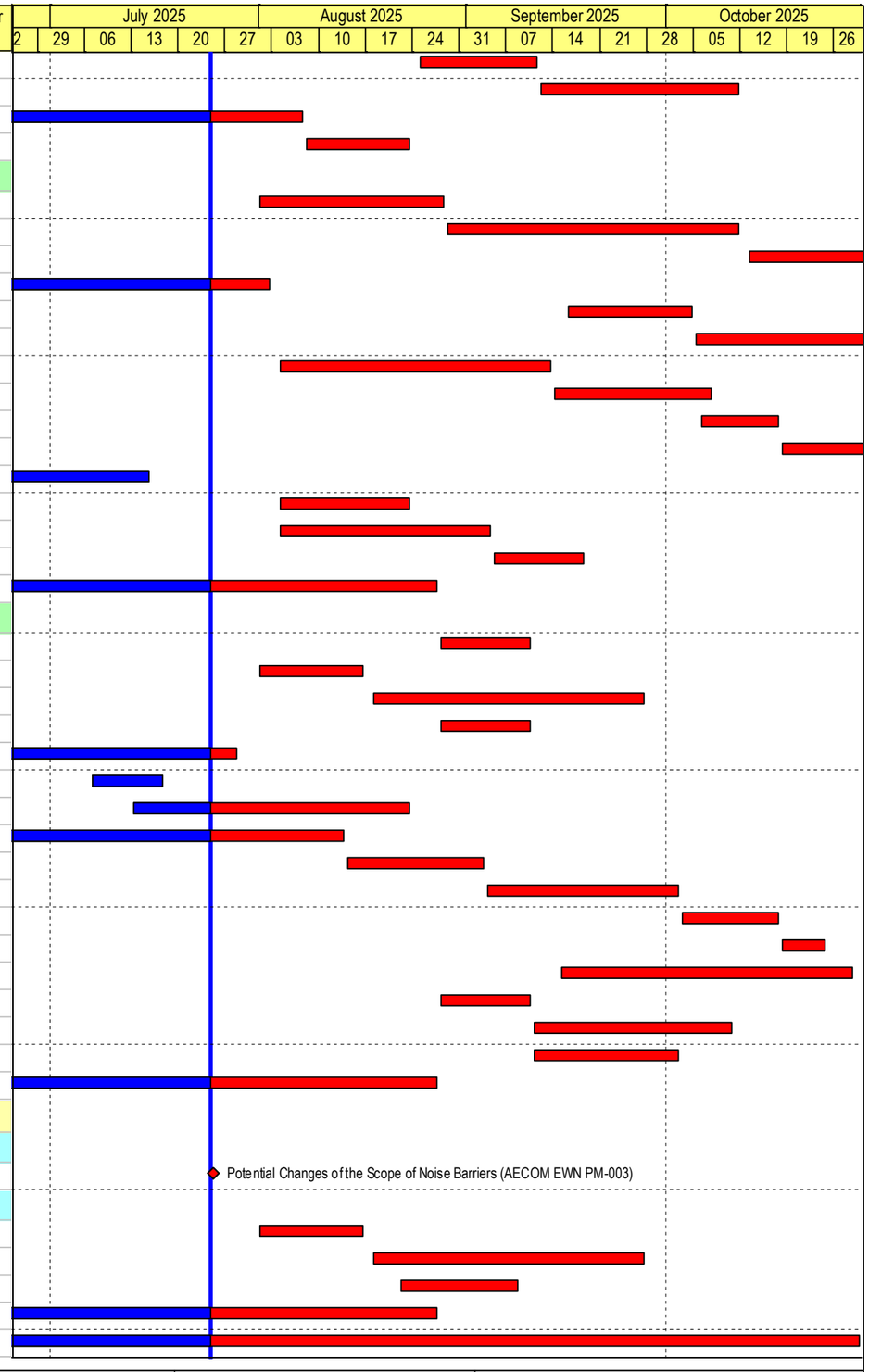
Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P1a-6120	Road Lighting	16	25-Aug-25	11-Sep-25	-176	WD(6d)
S8P1a-6130	T&C for smart road lighting system	30	12-Sep-25	11-Oct-25	-214	CD(7d)
S8P1a-6150	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 0 to 60 - Slope Drainage	12	18-Dec-24 A	07-Aug-25	-176	WD(6d)
S8P1a-6170	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 0 to 60 - Maintenance Access	14	08-Aug-25	23-Aug-25	-176	WD(6d)
Roundabout C3						
S8P1a-4026	New Formed Cut Slope KS44 & KS44A-C - Revised Details to Replace Loose fill with No fines	24	01-Aug-25	28-Aug-25	-140	WD(6d)
S8P1a-4042	New Formed Cut Slope KS44 & KS44A-C - Slope Drainage Construction	36	29-Aug-25	11-Oct-25	-140	WD(6d)
S8P1a-5020	New Cut Slope KS65 - Slope Drainage & Toe Drainage Construction	24	13-Oct-25	10-Nov-25	-140	WD(6d)
S8P1a-5024	DCS Works by Others - Stage 1 (Anticipated Start Date - Jan 2025) 'To be Confirmed'	9	06-Jan-25 A	02-Aug-25	-178	CD(7d)
S8P1a-5140	Road Lighting	16	16-Sep-25	04-Oct-25	-145	WD(6d)
S8P1a-5150	T&C for smart road lightings system	30	05-Oct-25	03-Nov-25	-162	CD(7d)
S8P1a-5222	Excavate, Laying and Backfilling Fresh & Flushing Watermains CHAA & CHWA	36	04-Aug-25	13-Sep-25	-145	WD(6d)
S8P1a-5224	Swabbing & Pressure test for Fresh & Flushing watermains CHAA & CHWA	24	14-Sep-25	07-Oct-25	-166	CD(7d)
S8P1a-5226	UU Diversion (132KV & 11KV CLP, Telecom NA)	10	06-Oct-25	17-Oct-25	-145	WD(6d)
S8P1a-5228	Backfill to Road Formation Level - Stage 2	24	18-Oct-25	15-Nov-25	-145	WD(6d)
S8P1a-5230.00	Construction of Sewerage FMH KT 3.01F Connection to 3.01E (1 / 1 M/H complete)	0	05-Jun-25 A	15-Jul-25 A		WD(6d)
S8P1a-5230.10	Laying Sewerage pipe between FMH KT 3.01D and 3.01E	18	04-Aug-25	23-Aug-25	-100	WD(6d)
S8P1a-5236.10	Construct Roundabout Drainage M1.80 to M1.84 & M1.88 (0 / 6 Completed)	28	04-Aug-25	04-Sep-25	-98	WD(6d)
S8P1a-5238	Backfill to Road Formation Level	12	05-Sep-25	18-Sep-25	-98	WD(6d)
S8P1a-5510	DCS Works by Others - Stage 2 (Anticipated Start Date - Mar 2025) 'To be Confirmed'	34	26-Mar-25 A	27-Aug-25	-160	CD(7d)
Within MTRC Protection Zone						
S8P1a-4022	New Formed Cut Slope KS53 Slope Drainage Construction	12	28-Aug-25	10-Sep-25	-99	WD(6d)
S8P1a-4032.10	New Formed Cut Slope KS03 & KS53 - Revised Details to Replace Loose fill with No fines	14	01-Aug-25	16-Aug-25	-114	WD(6d)
S8P1a-4036	New Formed Cut Slope KS03 Slope Drainage Construction	36	18-Aug-25	27-Sep-25	-114	WD(6d)
S8P1a-4104	Underground Drainage SMH KT1012 Back Drop Construction	12	28-Aug-25	10-Sep-25	-111	WD(6d)
S8P1a-4120	Underground Secondary Drainage M2.91 to M2.72 and Primary drainage pipe laying) (0 / 6 Completed)	3	23-Jun-25 A	28-Jul-25	-73	WD(6d)
S8P1a-4142	Swabbing & Pressure test for Fresh & Flushing watermains CHD & CHQ	0	07-Jul-25 A	17-Jul-25 A		CD(7d)
S8P1a-4144	Laying UU by others in Footpath (Handover to CLP, HKT)	30	13-Jul-25 A	23-Aug-25	-116	CD(7d)
S8P1a-4148	South bound Footpath - Backfill & SRT	17	16-Jun-25 A	13-Aug-25	-129	WD(6d)
S8P1a-4149	Carriageway - Laying UU by others in Carriageway (Handover to Towngas)	18	14-Aug-25	03-Sep-25	-129	WD(6d)
S8P1a-4149.0	Carriageway - Formation and SRT	24	04-Sep-25	02-Oct-25	-129	WD(6d)
S8P1a-4150	Carriageway - Subase and SRT	12	03-Oct-25	17-Oct-25	-129	WD(6d)
S8P1a-4152	Carriageway - Road base & Base course	6	18-Oct-25	24-Oct-25	-129	WD(6d)
S8P1a-4160	Road Works - Irrigation System Installation (Along Foothpath)	36	15-Sep-25	28-Oct-25	-132	WD(6d)
S8P1a-4180	Road Lighting	12	28-Aug-25	10-Sep-25	-129	WD(6d)
S8P1a-4190	T&C for smart road lightings system	30	11-Sep-25	10-Oct-25	-66	CD(7d)
S8P1a-4200	Road Kerb	18	11-Sep-25	02-Oct-25	-129	WD(6d)
S8P1a-6000	DCS Works by Others (Anticipated Start Date - Mar 2025) 'To be Confirmed'	34	26-Mar-25 A	27-Aug-25	-160	CD(7d)
Portion 3 in Area A (Soil Treatment, Drainage & Roadwork)						
Preparation work						
S8P3-0106	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	-104	CD(7d)
Civil Work						
S8P3-3005.22	New Formed Cut Slope KS53 - Revised Details to Replace Loose fill with No fines	14	01-Aug-25	16-Aug-25	-108	WD(6d)
S8P3-3005.30	New Feature KS53 - Construct Slope drainage	36	18-Aug-25	27-Sep-25	-108	WD(6d)
S8P3-3010.60	Carriageway - Laying UU by others (Handover to Towngas)	18	22-Aug-25	08-Sep-25	-150	CD(7d)
S8P3-4000	DCS Works by Others (Anticipated Start Date Mar 2025)	34	26-Mar-25 A	27-Aug-25	-138	CD(7d)
S8P3-4010	DCS Works by Others - Jacking Pit (Anticipated Start Date Oct 2024)	97	15-Oct-24 A	29-Oct-25	-201	CD(7d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25

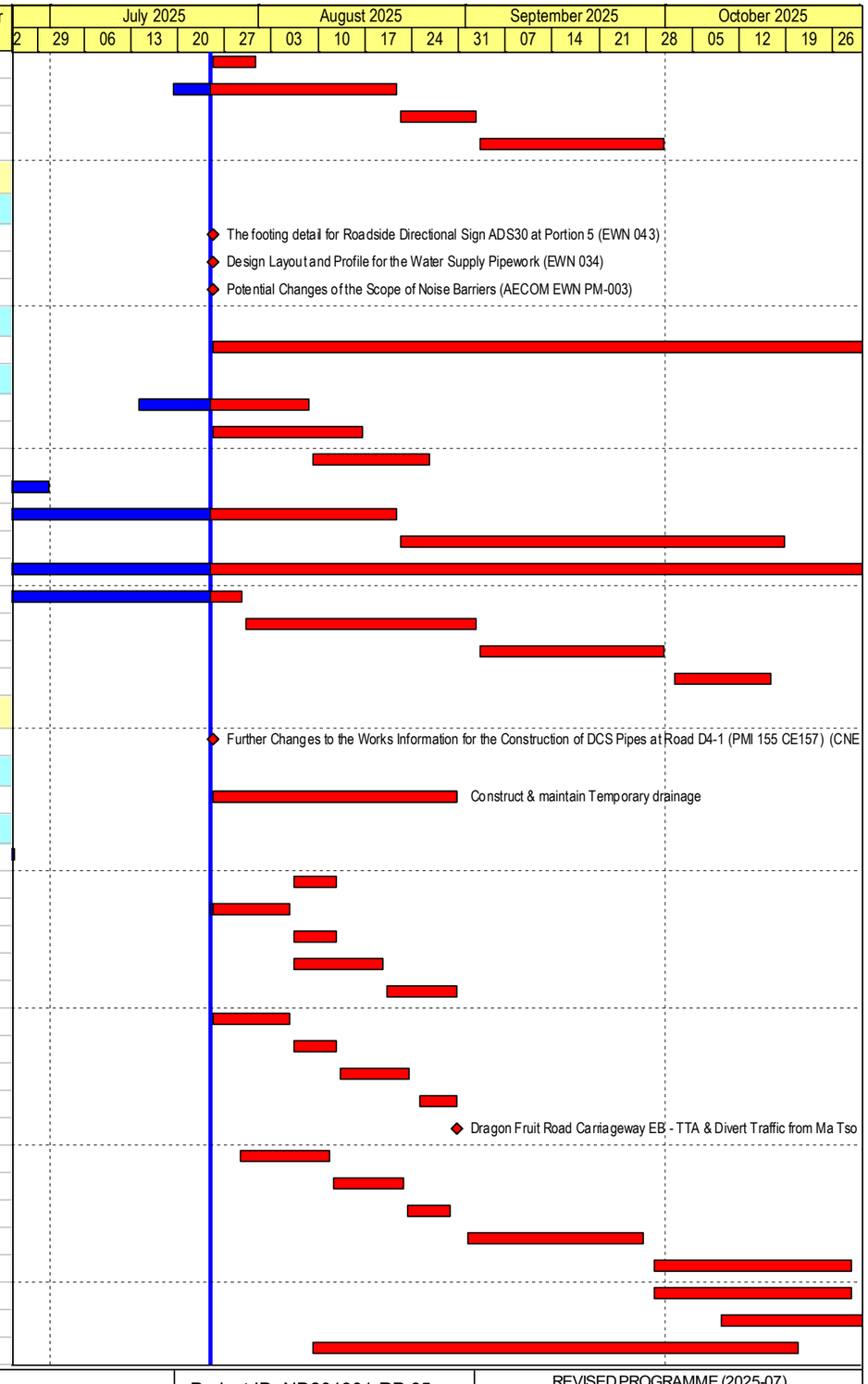
Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P3-5010	New Formed Cut Slope KS51 - Hydroseeding	6	25-Jul-25	31-Jul-25	-26	WD(6d)
S8P3-5030	Footpath (South bound) - Formation / SRT CH 315 - CH 330	24	19-Jul-25 A	21-Aug-25	-121	WD(6d)
S8P3-5040	Footpath (South bound) - Laying UU by others (Handover to CLP, HKT) & Road Lighting	12	22-Aug-25	02-Sep-25	-92	CD(7d)
S8P3-5050	Footpath (South bound) - Footpath Pavers	24	03-Sep-25	30-Sep-25	-78	WD(6d)
Portion 5 in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S8P5-0000	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0		25-Jul-25	-225	CD(7d)
S8P5-0102	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Jul-25	-379	CD(7d)
S8P5-0110	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	-225	CD(7d)
Construction according to CSD for Alternative on Bored Pile Wall						
S8P5-2005	Construct & maintain Temporary drainage	225	25-Jul-25	28-Apr-26	-307	WD(6d)
Civil Work						
S8P5-4004.30	Underground Fresh & Flushing watermains (South bound Carriageway) CHD 417 to 473 & CHQ 421 to 465	13	14-Jul-25 A	08-Aug-25	-110	WD(6d)
S8P5-4004.40	Remaining Secondary Drainage MH2.62 (0 / 1 MH completed)	20	25-Jul-25	16-Aug-25	-199	WD(6d)
S8P5-4006	Swabbing & Pressure test for Fresh & Flushing watermains CHD & CHQ	18	09-Aug-25	26-Aug-25	-137	CD(7d)
S8P5-4008	Watermain CHA - CCTV & Pressure Test	0	22-Apr-25 A	30-Jun-25 A		CD(7d)
S8P5-4012	Road Lighting & Underground utilities (Handover to CLP, HKT - 9 Apr 2025) (South bound Footpath)	24	12-May-25 A	21-Aug-25	-253	CD(7d)
S8P5-4012.0	Footpath Construction (South bound)	48	22-Aug-25	18-Oct-25	-178	WD(6d)
S8P5-5010	DCS Works by Others - North bound CH 340 - CH 410 (Anticipated Start Date Oct 2024)	127	15-Oct-24 A	28-Nov-25	-379	CD(7d)
S8P5-5080	Laying Road kerb (North bound CH400 to 500) (CE 566, 634)	4	23-Jun-25 A	29-Jul-25	-213	WD(6d)
S8P5-5090	Underground utilities (Handover to Towngas, North bound CH400 to 500)	30	30-Jul-25	02-Sep-25	-213	WD(6d)
S8P5-5100	Footpath Construction (North bound CH400 to 500)	24	03-Sep-25	30-Sep-25	-213	WD(6d)
S8P5-5110	Carriageway Base course & Binding course (North bound CH400 to 500)	12	02-Oct-25	16-Oct-25	-213	WD(6d)
Portion 6a & 6b in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
S8P6a-0005	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Jul-25	-379	CD(7d)
Construction according to CSD for Alternative on Bored Pile Wall						
S8P6a-2004	Construct & maintain Temporary drainage	32	25-Jul-25	30-Aug-25	-103	WD(6d)
Civil Work						
S8P6a-4024	Road D4 - Underground utilities (Handover to CLP, HKT) & Road Lighting (CH 240 to 340)	0	29-May-25 A	25-Jun-25 A		WD(6d)
S8P6a-4026	Road D4 - Underground utilities (Handover to CLP, HKT) & Road Lighting (CH 180 to 240)	6	06-Aug-25	12-Aug-25	-97	WD(6d)
S8P6a-4028	Carriageway - Formation & SRT CH 180 to CH 240	10	25-Jul-25 A	05-Aug-25	-103	WD(6d)
S8P6a-4028.0	Carriageway - UU Crossing CH 180 to CH 240	6	06-Aug-25	12-Aug-25	-103	WD(6d)
S8P6a-4030	Carriageway - Sub base, SRT & Road kerb CH 180 to CH 240	12	06-Aug-25	19-Aug-25	-103	WD(6d)
S8P6a-4030.0	Carriageway - Road base & Base course CH 180 to CH 240	10	20-Aug-25	30-Aug-25	-103	WD(6d)
S8P6a-4030.10	Dragon Fruit Road Carriageway EB - Formation, SRT	10	25-Jul-25 A	05-Aug-25	-103	WD(6d)
S8P6a-4030.20	Dragon Fruit Road Carriageway EB - Road Lighting & UU Crossing by others (CLP & Telecom)	6	06-Aug-25	12-Aug-25	-103	WD(6d)
S8P6a-4030.30	Dragon Fruit Road Carriageway EB - Sub base, SRT & Road Kerb	10	13-Aug-25	23-Aug-25	-103	WD(6d)
S8P6a-4030.40	Dragon Fruit Road Carriageway EB - Road base & Base course	6	25-Aug-25	30-Aug-25	-103	WD(6d)
S8P6a-4030.50	Dragon Fruit Road Carriageway EB - TTA & Divert Traffic from Ma Tso Lung Road	0		30-Aug-25	-124	CD(7d)
S8P6a-4030.60	Dragon Fruit Road Footpath North - Formation & SRT	12	29-Jul-25	11-Aug-25	-102	WD(6d)
S8P6a-4030.70	Dragon Fruit Road Footpath North - Road Lighting	10	12-Aug-25	22-Aug-25	-102	WD(6d)
S8P6a-4030.80	Dragon Fruit Road Footpath North - Footpath Paving	6	23-Aug-25	29-Aug-25	-102	WD(6d)
S8P6a-4032	Road work - & Footpath CH 180 to CH 240	24	01-Sep-25	27-Sep-25	-103	WD(6d)
S8P6a-4036	Road work - Furniture & Miscellaneous works	24	29-Sep-25	28-Oct-25	-103	WD(6d)
S8P6a-4038	Road Works - Irrigation System Installation	24	29-Sep-25	28-Oct-25	-103	WD(6d)
S8P6a-4050	Installation of smart road lightings system	24	09-Oct-25	06-Nov-25	-103	WD(6d)
S8P6a-5000	Road D4 - Existing Feature 2 SE-B/F73 Loose Fill to be Replaced by Compact fill	60	09-Aug-25	20-Oct-25	-175	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

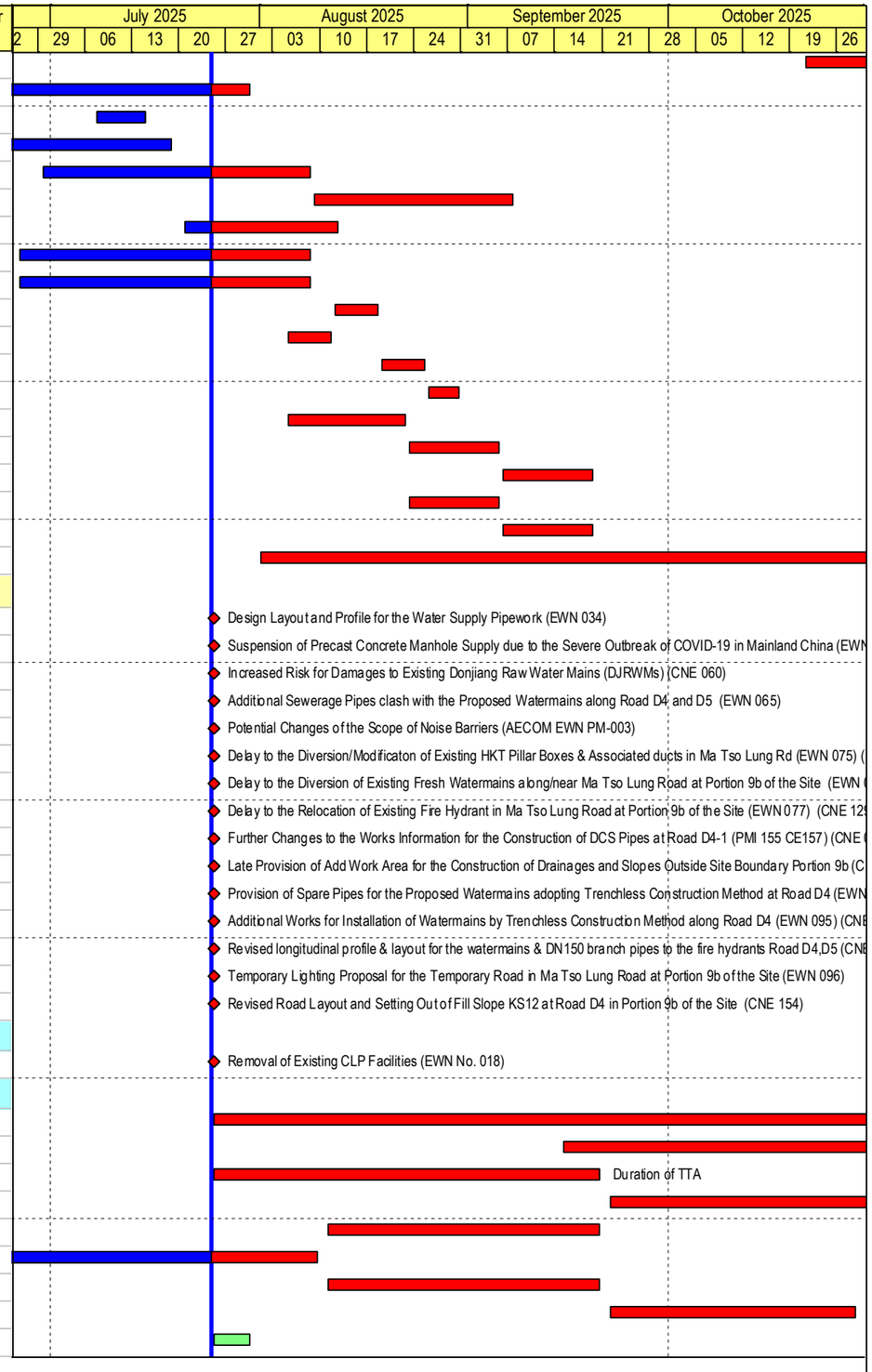
Data Date: 25-Jul-25

Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Layout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P6a-5010	Road D4 - Existing Feature 2 SE-B/F73 Loose Fill to be Replaced by Compact fill - Hydroseeding	12	21-Oct-25	04-Nov-25	-175	WD(6d)
S8P6a-6076.20	Watermain CHA - CCTV & Pressure Test (EWN 111)	6	23-Apr-25 A	30-Jul-25	-22	CD(7d)
S8P6a-6084.20	Road D4 - Underground Sewerage work (Lay Pipe FMH KT1.01 to Plug in) & Backfill	0	08-Jul-25 A	15-Jul-25 A		WD(6d)
S8P6a-6090	Road D4 Remainig Flushing & Fresh Watermains CHD	0	24-Jun-25 A	19-Jul-25 A		WD(6d)
S8P6a-6100	Road D4 Remainig Flushing & Fresh Watermains CHD & CHQ	13	30-Jun-25 A	08-Aug-25	-52	WD(6d)
S8P6a-6110	Road D4 CCTV & Pressure test for Flushing watermains CHQ	30	09-Aug-25	07-Sep-25	-61	CD(7d)
S8P6a-7000	Road D4 CCTV & Pressure test for Fresh watermains CHD	19	21-Jul-25 A	12-Aug-25	-35	CD(7d)
S8P6a-7064	KB01 (Bay 13 to 15) - Catchpit Construction	13	26-Jun-25 A	08-Aug-25	-175	WD(6d)
S8P6a-7070	KB01 (Bay 13 to 15) - U Channel Construction	13	26-Jun-25 A	08-Aug-25	-175	WD(6d)
S8P6a-7170	Formation & SRT for Carriageway (CH 365 to 400)	6	12-Aug-25	18-Aug-25	-103	WD(6d)
S8P6a-7172	Carriageway - UU Crossing (CH 360 to 400)	6	05-Aug-25	11-Aug-25	-117	WD(6d)
S8P6a-7174	Carriageway - Sub base, SRT & Raod kerb (CH 360 to 400)	6	19-Aug-25	25-Aug-25	-103	WD(6d)
S8P6a-7176	Carriageway - Road base & Base course (CH 360 to 400)	5	26-Aug-25	30-Aug-25	-103	WD(6d)
S8P6a-7178	Road D4 Footpath - Underground utilitiies (Handover to CLP, HKT) & Road Lighting (CH 340 to 400)	16	05-Aug-25	22-Aug-25	-63	WD(6d)
S8P6a-7180	North Footpath (CH 340 to 400) - Formation & SRT	12	23-Aug-25	05-Sep-25	-63	WD(6d)
S8P6a-7180.0	North Footpath (CH 340 to 400) - Paving Block	12	06-Sep-25	19-Sep-25	-63	WD(6d)
S8P6a-7182	South Footpath (CH 340 to 400) - Formation & SRT	12	23-Aug-25	05-Sep-25	-63	WD(6d)
S8P6a-7184	South Footpath (CH 340 to 400) - Paving Block	12	06-Sep-25	19-Sep-25	-63	WD(6d)
S8P6a-7500	Road D3 / D4 Junction - DCS Works by Others - North bound (Anticipated Start Date 1 Aug 2025)	123	01-Aug-25	01-Dec-25	-223	CD(7d)
Portion 9b & 9d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)						
S8P9b-0004	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Jul-25	-305	CD(7d)
S8P9b-3124	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Jul-25	-338	CD(7d)
S8P9b-3126	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0		25-Jul-25	-317	CD(7d)
S8P9b-3128	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0		25-Jul-25	-305	CD(7d)
S8P9b-3132	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	-221	CD(7d)
S8P9b-3140	Delay to the Diversion/Modificaton of Existing HKT Pillar Boxes & Associated ducts in Ma Tso Lung Rd (EWN 075) (CNE 096)	0		25-Jul-25	-338	CD(7d)
S8P9b-3142	Delay to the Diversion of Existing Fresh Watermains along/near Ma Tso Lung Road at Portion 9b of the Site (EWN 076)	0		25-Jul-25	-305	CD(7d)
S8P9b-3144	Delay to the Relocation of Existing Fire Hydrant in Ma Tso Lung Road at Portion 9b of the Site (EWN 077) (CNE 129)	0		25-Jul-25	-305	CD(7d)
S8P9b-3148	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Jul-25	-338	CD(7d)
S8P9b-3154	Late Provision of Add Work Area for the Construction of Drainages and Slopes Outside Site Boundary Portion 9b (CNE 098)	0		25-Jul-25	-294	CD(7d)
S8P9b-3156	Provision of Spare Pipes for the Proposed Watermains adopting Trenchless Construction Method at Road D4 (EWN 091)	0		25-Jul-25	-317	CD(7d)
S8P9b-3162	Additional Works for Installation of Watermains by Trenchless Construction Method along Road D4 (EWN 095) (CNE 136)	0		25-Jul-25	-231	CD(7d)
S8P9b-3166	Revised longitudinal profile & layout for the watermains & DN150 branch pipes to the fire hydrants Road D4,D5 (CNE 149)	0		25-Jul-25	-305	CD(7d)
S8P9b-3170	Temporary Lighting Proposal for the Temporary Road in Ma Tso Lung Road at Portion 9b of the Site (EWN 096)	0		25-Jul-25	-305	CD(7d)
S8P9b-3172	Revised Road Layout and Setting Out of Fill Slope KS12 at Road D4 in Portion 9b of the Site (CNE 154)	0		25-Jul-25	-155	CD(7d)
Preparation work/Tree Survey/Site Clearance/GI						
S8P9b-0006	Removal of Existing CLP Facilities (EWN No. 018)	0		25-Jul-25	-166	CD(7d)
Civil Work						
S8P9b-3000	Construct & maintain Temporary drainage	221	25-Jul-25	23-Apr-26	-273	WD(6d)
S8P9b-3001.04	Slopeworks for new feature KS19 - Berm, Stairs & Maintenance Access Construction	60	15-Sep-25	27-Nov-25	-156	WD(6d)
S8P9b-3012.20	Duration of TTA	58	25-Jul-25	20-Sep-25	-303	CD(7d)
S8P9b-3021.60	Road D4 (CH 830 to CH 970) North bound - Road lighting and UU by others	36	22-Sep-25	05-Nov-25	-246	WD(6d)
S8P9b-3022	Road D4 (CH 830 to CH 970) North bound - Remaining Back Filling & SRT	36	11-Aug-25	20-Sep-25	-246	WD(6d)
S8P9b-3022.30	Road D4 (CH 970 to CH 994) - Construction of Underground Drainage Manhole SMH KT 5016 connect to 7107 (1 / 2 Complete)	14	21-May-25 A	09-Aug-25	-246	WD(6d)
S8P9b-3022.40	Road D4 (CH 830 to CH 970) South bound - Remaining Back Filling & SRT	36	11-Aug-25	20-Sep-25	-216	WD(6d)
S8P9b-3022.50	Road D4 (CH 830 to CH 970) South bound - Road lighting and UU by others	30	22-Sep-25	28-Oct-25	-216	WD(6d)
S8P9b-3032	New Activity	5	25-Jul-25	30-Jul-25	487	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

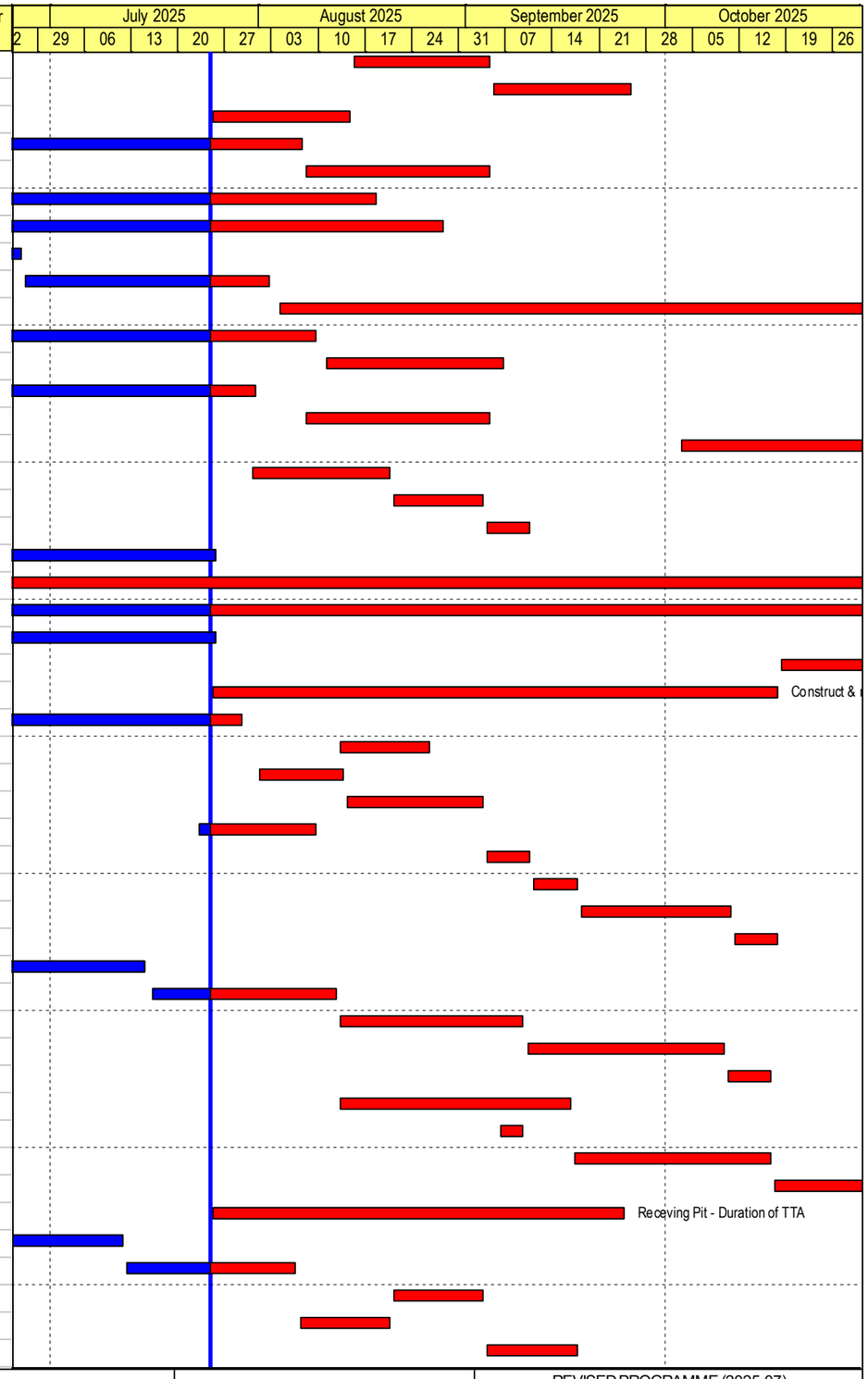
ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P9b-3040.14	Retaining wall KW03 - Drainage Construction (Remaining)	18	15-Aug-25	04-Sep-25	-166	WD(6d)
S8P9b-3040.16	Retaining wall KW02 - Drainage Construction	18	05-Sep-25	25-Sep-25	-166	WD(6d)
S8P9b-3040.18	Retaining wall KW04 - Drainage Construction	18	25-Jul-25	14-Aug-25	-166	WD(6d)
S8P9b-3040.24	Retaining wall KW02, KW03 & KW04 - UU by others & Smart Lighting	12	25-Mar-25 A	07-Aug-25	-148	WD(6d)
S8P9b-3040.26	Retaining wall KW02, KW03 & KW04 - Foothpath Construction	24	08-Aug-25	04-Sep-25	-148	WD(6d)
S8P9b-3057.40	Road D4 (CH 400 to CH 560) - North Footpath Underground Utilities by others & Road Lighting	21	14-Apr-25 A	18-Aug-25	-133	WD(6d)
S8P9b-3057.50	Road D4 (CH 500 to CH 560) - South Footpath Sub base, Base and Pavers	30	13-Jun-25 A	28-Aug-25	-155	WD(6d)
S8P9b-3057.510	Road D4 (CH 400 to CH 580) - North Footpath Formation / SRT for Footpath	0	10-Mar-25 A	26-Jun-25 A		WD(6d)
S8P9b-3057.520	Road D4 (CH 400 to CH 580) - North Footpath Sub base, Base and Pavers	8	27-Jun-25 A	02-Aug-25	-210	WD(6d)
S8P9b-3057.600	Road D4 (CH 580 to CH 660) - Remaining Road Works	90	04-Aug-25	19-Nov-25	-210	WD(6d)
S8P9b-3058.110	Road D5 - Road lighting / Underground Utilities by others (North footpath)	14	10-Feb-25 A	09-Aug-25	-196	WD(6d)
S8P9b-3058.112	Road D5 - Foot path Paving Blocks (North footpath)	24	11-Aug-25	06-Sep-25	-196	WD(6d)
S8P9b-3058.116	Road D5 - Road lighting / Underground Utilities by others (South footpath) (CNE 221)	6	08-Apr-25 A	31-Jul-25	-112	WD(6d)
S8P9b-3058.118	Road D5 - Foot path Paving Blocks (South footpath) (CNE 221)	24	08-Aug-25	04-Sep-25	-112	WD(6d)
S8P9b-3058.12	Road D5 - Irrigation System Installation - East bound Footpath (CNE 221)	48	03-Oct-25	29-Nov-25	-217	WD(6d)
S8P9b-3058.190	Road D5 - Carriageway Formation & SRT (CH165 - 179) (CNE 221)	18	31-Jul-25	20-Aug-25	-181	WD(6d)
S8P9b-3058.191	Road D5 - Carriageway Sub base & SRT (CH165 - 179) (CNE 221)	12	21-Aug-25	03-Sep-25	-175	WD(6d)
S8P9b-3058.192	Road D5 - Carriageway Road Base and Base course (CH165 - 179) (CNE 221)	6	04-Sep-25	10-Sep-25	-175	WD(6d)
S8P9b-3058.60	Road D5 (South Footpath) - Watermains T & C (CNE 221)	0	20-May-25 A	25-Jul-25 A		CD(7d)
S8P9b-3101	Duration of TTA	131	21-Jun-25 A	30-Dec-25	-273	WD(6d)
S8P9b-3108.50	Reassign to DCS Contractor (After Road D5 A3 Road Diversion, Previously assigned to DCS Contractor 28 Apr - 1 Jun 24)	100	21-Jun-25 A	01-Nov-25	-338	CD(7d)
S8P9b-3244.10	Road D4 & W1 - Watermain CHD & CHB CCTV & Pressure Test	0	06-Jun-25 A	25-Jul-25 A		CD(7d)
S8P9b-3258	Road A3 - Construct Dwarf Wall	48	18-Oct-25	13-Dec-25	-255	WD(6d)
S8P9b-3260	Construct & maintain Temporary drainage	71	25-Jul-25	17-Oct-25	-255	WD(6d)
S8P9b-3262.070	Jacking Pit - Construct Inspection Tee Chamber (upto +18.00) Stage 1 (CNE 060, CE 246)	4	09-Jun-25 A	29-Jul-25	-255	WD(6d)
S8P9b-3262.0700	Jacking Pit - Watermain Installation inside Inspection Tee Chamber (CNE 060, CE 246)	12	13-Aug-25	26-Aug-25	-36	WD(6d)
S8P9b-3262.0701	Jacking Pit - Lay Watermain inside Pit (CNE 060, CE 246)	11	01-Aug-25	13-Aug-25	-255	WD(6d)
S8P9b-3262.0702	Jacking Pit - Construct Inspection Tee Chamber Stage 2 (CNE 060, CE 246)	18	14-Aug-25	03-Sep-25	-255	WD(6d)
S8P9b-3262.0703	Jacking Pit - Laying DCS Pipes (CNE 060, CE 246)	14	23-Jul-25 A	09-Aug-25	-234	WD(6d)
S8P9b-3262.076	Jacking Pit - Backfilling to Sewerage Level +14.179mPD (CNE 060, CE 246)	6	04-Sep-25	10-Sep-25	-255	WD(6d)
S8P9b-3262.080	Jacking Pit - Construct Sewerage FMH KT7.08 & Lay Pipe (0 / 1 MH Complete) (CNE 060, CE 246)	6	11-Sep-25	17-Sep-25	-255	WD(6d)
S8P9b-3262.082	Jacking Pit - Backfilling to Formation (CNE 060, CE 246) (CNE 060, CE 246)	18	18-Sep-25	10-Oct-25	-255	WD(6d)
S8P9b-3262.090	Jacking Pit - Cut Top 2m of Pipe Pile Wall & Backfilling to Road Formation (CNE 060, CE 246)	6	11-Oct-25	17-Oct-25	-255	WD(6d)
S8P9b-3262.092	Pipe Jacking - Pressure Test and Grouting of Sleeve Pipe for DCS (CNE 060, CE 246)	0	03-Jun-25 A	15-Jul-25 A		CD(7d)
S8P9b-3262.098	South of Jacking Pit - ELS & Excavation for DCS & Watermains	16	16-Jul-25 A	12-Aug-25	-218	WD(6d)
S8P9b-3262.102	South of Jacking Pit - Laying DCS Pipes	24	13-Aug-25	09-Sep-25	-218	WD(6d)
S8P9b-3262.1050	South of Jacking Pit - Testing and Commissioning (T&C) for DCS Works	30	10-Sep-25	09-Oct-25	-231	CD(7d)
S8P9b-3262.1052	South of Jacking Pit - Connect DCS Pipes to Jacking Pit	6	10-Oct-25	16-Oct-25	-170	WD(6d)
S8P9b-3262.1054	South of Jacking Pit - Laying Fresh Watermain CHA & CHD & Construct Chambers (2 nos) (CE 150)	30	13-Aug-25	16-Sep-25	-218	WD(6d)
S8P9b-3262.1056	South of Jacking Pit - Connect to Jacking Pit Watermains	3	06-Sep-25	09-Sep-25	-45	WD(6d)
S8P9b-3262.1058	South of Jacking Pit - Backfill and Remove Sheet Piles	24	17-Sep-25	16-Oct-25	-218	WD(6d)
S8P9b-3262.1060	South of Jacking Pit - Construct Sewerage KT 7.06 connec to 7.07 (0/1 MH complete)	24	17-Oct-25	14-Nov-25	-218	WD(6d)
S8P9b-3262.111	Receving Pit - Duration of TTA (CNE 060, CE 246)	53	25-Jul-25	24-Sep-25	-243	WD(6d)
S8P9b-3264.00	Receiving Pit - Backfill to DCS & Sewerage Pipe level (CNE 060, CE 246)	0	25-Jun-25 A	11-Jul-25 A		WD(6d)
S8P9b-3264.01	Receiving Pit - Laying DCS Pipes & Backfill (CNE 060, CE 246)	11	12-Jul-25 A	06-Aug-25	-243	WD(6d)
S8P9b-3264.02	Receiving Pit - Watermain Installation inside Inspection Tee Chamber (CNE 060, CE 246)	12	21-Aug-25	03-Sep-25	-237	WD(6d)
S8P9b-3264.03	Receiving Pit - Lay Watermain inside Pit (CNE 060, CE 246)	12	07-Aug-25	20-Aug-25	-237	WD(6d)
S8P9b-3264.04	Receiving Pit - Construct Inspection Tee Chamber Stage 2 (CNE 060, CE 246)	12	04-Sep-25	17-Sep-25	-237	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

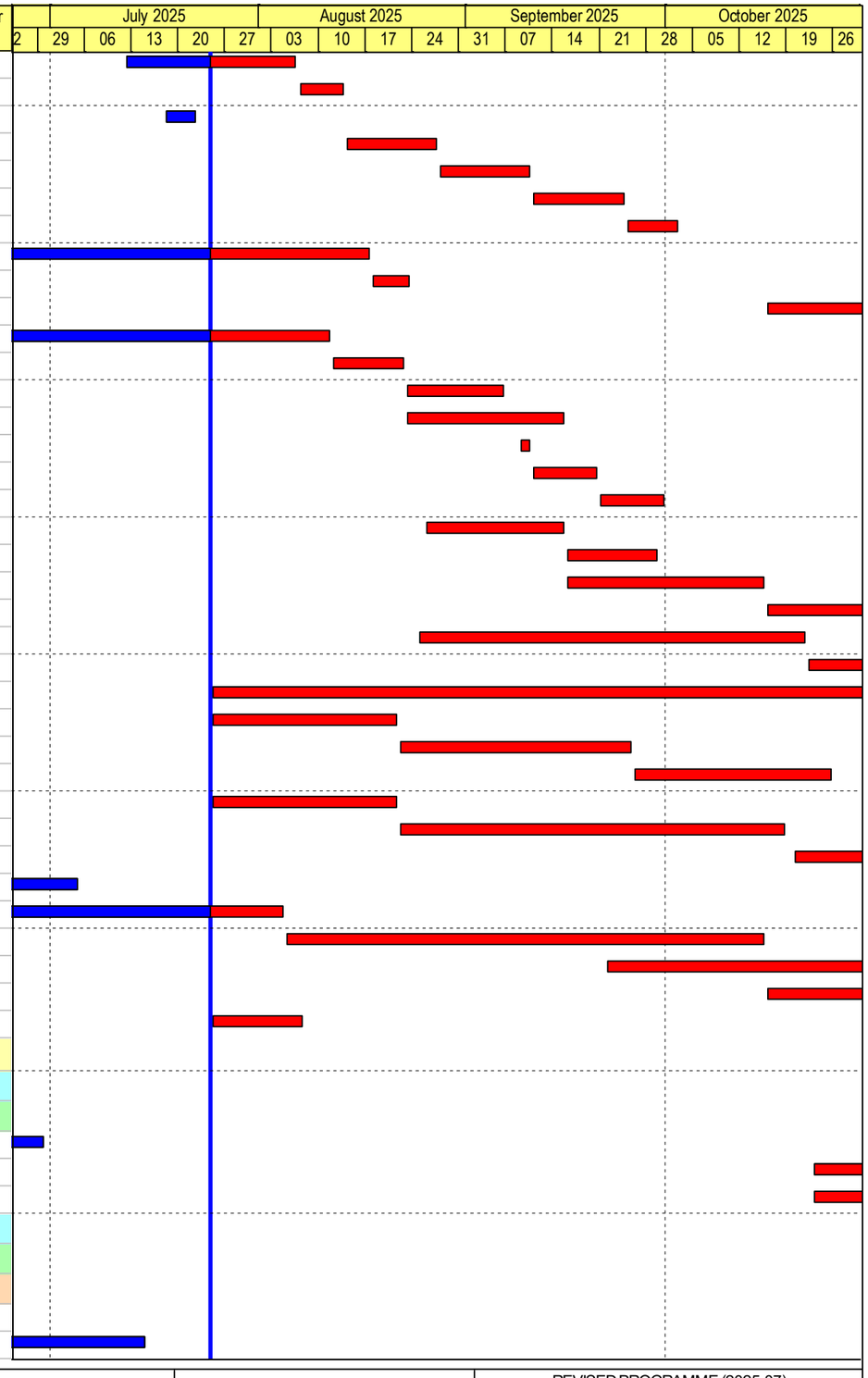
Data Date: 25-Jul-25

Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P9b-3264.20	Receiving Pit - Construct Sewerage MH / Lay Pipe & Backfill (0 /2 Complete) (CNE 060, CE 246)	11	12-Jul-25 A	06-Aug-25	-243	WD(6d)
S8P9b-3270	Receiving Pit - Backfilling to Gate Valve Chamber Level +14.0mPD (CNE 060, CE 246)	6	07-Aug-25	13-Aug-25	-243	WD(6d)
S8P9b-3270.50	Receiving Pit - Construct Gate valve Chamber Base Slab (CNE 060, CE 246)	0	18-Jul-25 A	22-Jul-25 A		WD(6d)
S8P9b-3270.60	Receiving Pit - Construct Gate valve Install Fittings (CNE 060, CE 246)	12	14-Aug-25	27-Aug-25	-243	WD(6d)
S8P9b-3270.70	Receiving Pit - Construct Gate valve Chamber Walls and Roof Slab (CNE 060, CE 246)	12	28-Aug-25	10-Sep-25	-243	WD(6d)
S8P9b-3272	Receiving Pit - Construct SMH 5007A +16.75mPD (Cast In-Situ Method) (CNE 060, CE 246)	12	11-Sep-25	24-Sep-25	-243	WD(6d)
S8P9b-3274	Receiving Pit - Cut Top 2m of Pipe Pile Wall & Backfilling to Road Formation (CNE 060, CE 246)	6	25-Sep-25	02-Oct-25	-243	WD(6d)
S8P9b-3292	Additional Land Adjacent to Pipe Jacking - Seek Approal for Tree Felling and Transplant Report	24	01-Mar-25 A	17-Aug-25	-255	CD(7d)
S8P9b-3294	Additional Land Adjacent to Pipe Jacking - Tree Felling and Site Clearance	6	18-Aug-25	23-Aug-25	-204	WD(6d)
S8P9b-3294.20	North of Receiving Pit - Laying DCS Pipe CH806 to CH816 (Connection of Stage 3 & 4)	12	16-Oct-25	30-Oct-25	-207	WD(6d)
S8P9b-3300.00	North of Receiving Pit - ELS /Excavation for DCS Pipes and Burried Pit @ CH 770 + CHA & CHD WM Chambers	15	22-Apr-25 A	11-Aug-25	-243	WD(6d)
S8P9b-3302	North of Receiving Pit - Construct DCS Burried Pit @ CH 770 & Laying Pipes Across Road D4	10	12-Aug-25	22-Aug-25	-243	WD(6d)
S8P9b-3304	North of Receiving Pit - Testing and Commissioning (T&C) for DCS Works Burried Pit @ CH 770 to Tee Section	15	23-Aug-25	06-Sep-25	-291	CD(7d)
S8P9b-3318	North of Receiving Pit - Laying Fresh Watermain & Chanbers CHA & CHD	20	23-Aug-25	15-Sep-25	-243	WD(6d)
S8P9b-3318.0	North of Receiving Pit - Connect to Receiving Pit Watermains	2	09-Sep-25	10-Sep-25	-46	WD(6d)
S8P9b-3318.10	North of Receiving Pit - Fresh Watermain CHA & CHD CCTV & Pressure Test	10	11-Sep-25	20-Sep-25	-54	CD(7d)
S8P9b-3320	North of Receiving Pit - Fresh Watermain CHA & CHD Sterilization Test	10	21-Sep-25	30-Sep-25	-54	CD(7d)
S8P9b-3320.0	North of Receiving Pit - Backfilling to Watermain CHZD level	18	26-Aug-25	15-Sep-25	-135	WD(6d)
S8P9b-3320.10	North of Receiving Pit - Laying Watermain CHZD and Backfilling to Formation	12	16-Sep-25	29-Sep-25	-135	WD(6d)
S8P9b-3330	Road D4 - Construct Temp Road and Divert Traffic	24	16-Sep-25	15-Oct-25	-243	WD(6d)
S8P9b-3332	Road D4 (CH 690 - 780) - Sheet Piling / ELS & Excavation for Drainage & Sewerage	48	16-Oct-25	11-Dec-25	-243	WD(6d)
S8P9b-3364	Road D4 (CH 690 - 780) - Sheet Piling / ELS & Excavatoion For laying Flushing Watermain CHQ	48	25-Aug-25	21-Oct-25	-204	WD(6d)
S8P9b-3366	Road D4 (CH 690 - 780) - Laying Flushing Watermain CHQ & Backfilling	42	22-Oct-25	10-Dec-25	-204	WD(6d)
S8P9b-3530	Road A4 - Duration of TTA (Stage 1)	175	25-Jul-25	15-Jan-26	-206	CD(7d)
S8P9b-3540	Road A4 - Tree Felling and Site Clearance (CNE 217)	24	25-Jul-25	21-Aug-25	-237	WD(6d)
S8P9b-3542	Road A4 - Construct Temporary Village Access Road and Implement TTA (CNE 217)	30	22-Aug-25	25-Sep-25	-237	WD(6d)
S8P9b-3544	Road A4 - UU Detection, Trial Trench Excavation on Existing Ma Tso Lung Road to locate Existing UU (CNE 217)	24	26-Sep-25	25-Oct-25	-237	WD(6d)
S8P9b-3560.0	Road A4 - Construction of Drainage CP 5006B to SMHKT MH02 (0 /1 MH complete) & Connect to Existing Drainage	24	25-Jul-25	21-Aug-25	-170	WD(6d)
S8P9b-3562	Road A4 - ELS & Excavation & Drainage Construction SMHKT 5006A Connection to CP-6A-2 (CNE 217)	48	22-Aug-25	18-Oct-25	-170	WD(6d)
S8P9b-3566	Road A4 - UU by others (CNE 217)	30	20-Oct-25	24-Nov-25	-170	WD(6d)
S8P9b-6000	Road D4 - New Formed Slope KS12 Compact fill (rock)	0	12-Apr-24 A	05-Jul-25 A		WD(6d)
S8P9b-6000.0	Road D4 - New Formed Slope KS12 Compact fill (no fines)	9	02-Jan-25 A	04-Aug-25	-133	WD(6d)
S8P9b-6020	Road D4 - New Formed Sloping Ground KS14 Compact fill	60	05-Aug-25	15-Oct-25	-133	WD(6d)
S8P9b-6070	Road D4 - New Formed Slope KS60 Compact fill	60	22-Sep-25	03-Dec-25	-170	WD(6d)
S8P9b-7020	Road D4 - New Formed Sloping Ground KS14 Compact fill - Hydroseeding	12	16-Oct-25	30-Oct-25	-133	WD(6d)
S8P9b-7080	Road D5 - New Formed Sloping Ground KS20 Cut - Hydroseeding	12	25-Jul-25	07-Aug-25	-88	WD(6d)
Portion 8a in Area A (Soil Treatment, Reservoirs, Slope, Drainage & Roadwork)						
Forming Site Access and Site Formation						
Stage 2 General Excavation near Fresh Water Servie Reservior (Excavation Volume 299396 m3)						
S8P8a-1010	Landscape Works Road W1 - Planting Works	0	18-Feb-25 A	30-Jun-25 A		WD(6d)
S8P8a-1208	Construct & maintain Temporary drainage	54	23-Oct-25	27-Dec-25	-125	WD(6d)
S8P8a-1210	Rockfilling for New Feature KS30 and adjacent road (CNE 220)	30	23-Oct-25	27-Nov-25	-190	WD(6d)
KD8 - complete all works for fresh water and flushing water services reservoirs, pipe laying & road						
Construction of Kwu Tung North Flushing Water Service Reservoir (KTN FLWSR)						
Civil Works						
S8K8-1005	Construct & maintain Temporary drainage	0	25-Jun-25 A	25-Jun-25 A		WD(6d)
S8K8-1038.0	Installation of Watermains inside Inlet Chamber (after design change) and Test (EWN 113)	0	24-Apr-25 A	15-Jul-25 A		WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

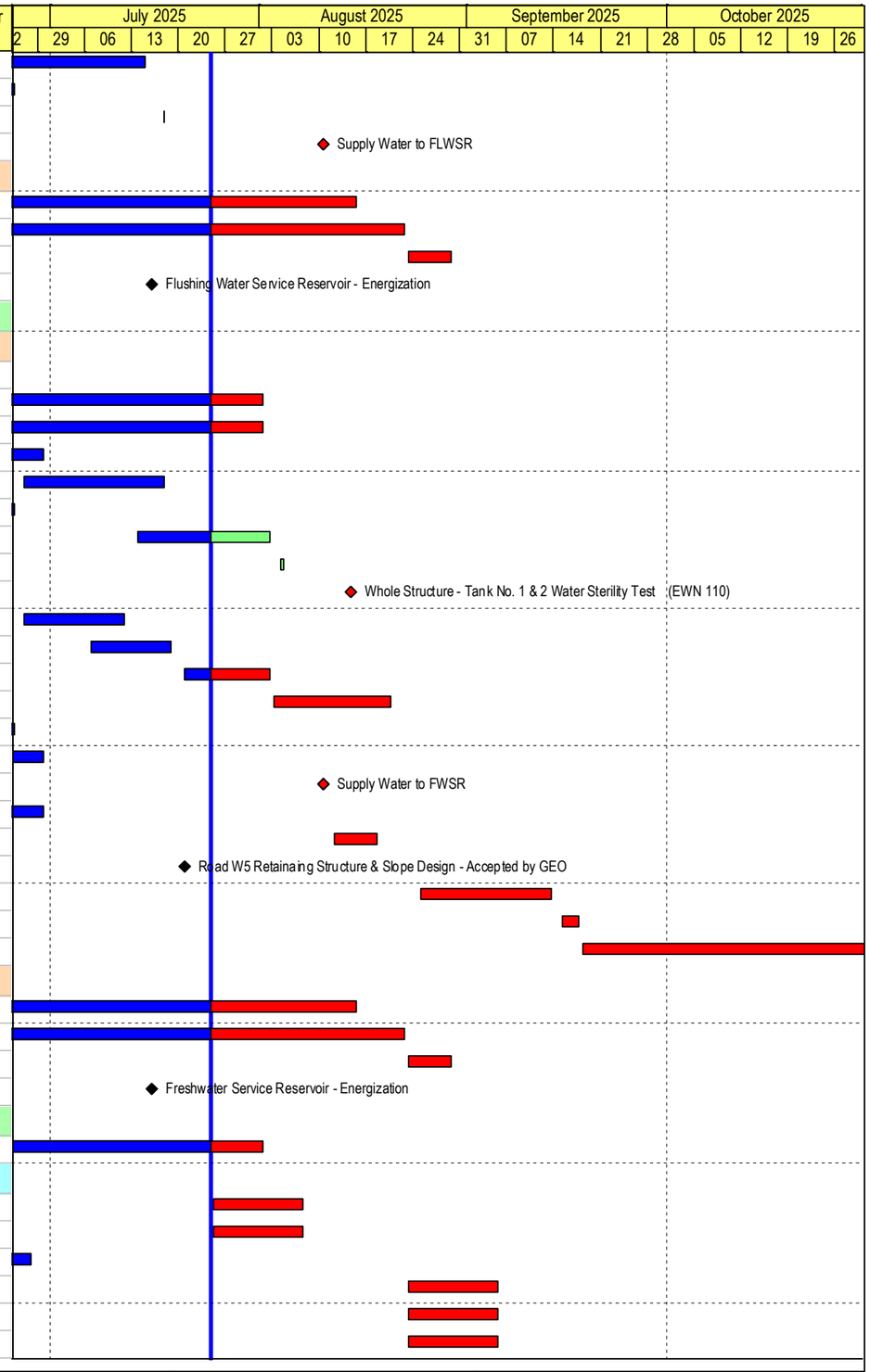
Data Date: 25-Jul-25

Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8K8-1038.10	Installation of Watermains inside Outlet Chamber and Test (EWN 113)	0	06-May-25 A	15-Jul-25 A		WD(6d)
S8K8-1180	Green Roof - Soiling works	0	03-Jun-25 A	25-Jun-25 A		WD(6d)
S8K8-1190	Green Roof - Hydroseeding	0	18-Jul-25 A	18-Jul-25 A		WD(6d)
S8K8-2080	Supply Water to FLWSR	0		10-Aug-25	-124	CD(7d)
E&M Works						
S8K8-2040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FLWSR	19	07-Oct-24 A	15-Aug-25	-109	WD(6d)
S8K8-2050	Installation of E&M equipment for KTN FLWSR	25	06-May-25 A	22-Aug-25	-115	WD(6d)
S8K8-2060	Testing & Commissioning (T&C) of E&M equipment for KTN FLWSR	7	23-Aug-25	29-Aug-25	-143	CD(7d)
S8K8-2070	Flushing Water Service Reservoir - Energization	0		16-Jul-25 A		CD(7d)
Construction of Kwu Tung North Freshwater Service Reservoir (KTN FWSR)						
Civil Works						
S8K8-3000	Construct & maintain Temporary drainage	0	25-Jul-25 A	25-Jul-25 A		WD(6d)
S8K8-3037	Install Watermains inside Outlet Chamber and Overflow pipe Installation and Test (EWN 113)	7	09-May-25 A	01-Aug-25	-97	WD(6d)
S8K8-3037.0	Install Watermains inside Inlet Chamber and Test (EWN 113)	7	28-Apr-25 A	01-Aug-25	-97	WD(6d)
S8K8-3040	Backfilling (9855m3, 2 gangs)	0	02-May-24 A	30-Jun-25 A		WD(6d)
S8K8-3040.24	Tank No. 1 (North) - Install cat ladder	0	27-Jun-25 A	18-Jul-25 A		WD(6d)
S8K8-3040.80	Roof - Water Tightness Test	0	23-Jun-25 A	25-Jun-25 A		CD(7d)
S8K8-3040.82	Green Roof - Soiling works	7	14-Jul-25 A	02-Aug-25	1	WD(6d)
S8K8-3040.84	Green Roof - Hydroseeding	1	04-Aug-25	04-Aug-25	1	WD(6d)
S8K8-3040.90	Whole Structure - Tank No. 1 & 2 Water Sterility Test (EWN 110)	0		14-Aug-25	-128	CD(7d)
S8K8-3040.92	Tank No. 2 (South) - Install cat ladder	0	27-Jun-25 A	12-Jul-25 A		WD(6d)
S8K8-3060.20	Up Hill Receving Pit - Flushing Water Chambers Watermain Installation VC5 (CE 142)	0	07-Jul-25 A	19-Jul-25 A		WD(6d)
S8K8-3060.40	Up Hill Receving Pit - Connect Flushing Water main Combine / Flushing Chambers to Trough (CE 142)	8	21-Jul-25 A	02-Aug-25	-73	WD(6d)
S8K8-3060.48	Up Hill - Flushing Chamber VC5 Swabbing & Pressure Test for Flushing Watermains CHYA (CE 142) (PMI 137)	18	03-Aug-25	20-Aug-25	-87	CD(7d)
S8K8-3060.90	Up Hill Receving Pit - Fresh Water Chamber Watermain Installation & Connect to Trough Watermain (CE 142)	0	20-Jun-25 A	25-Jun-25 A		WD(6d)
S8K8-3060.92	Road W5 - CCTV & Pressure Test for Fresh Watermains CHOD (CE 142) (PMI 137)	0	25-Jun-25 A	30-Jun-25 A		CD(7d)
S8K8-3070	Supply Water to FWSR	0		10-Aug-25	-128	CD(7d)
S8K8-3094	Road W5 - CCTV & Pressure Test for Fresh Watermain inside Trough	0	21-Jun-25 A	30-Jun-25 A		CD(7d)
S8K8-3100	Road W5 - CCTV & Pressure Test for Flushing Watermain inside Trough	7	12-Aug-25	18-Aug-25	-359	CD(7d)
S8K8-7000	Road W5 Retainaing Structure & Slope Design - Accepted by GEO	0		21-Jul-25 A		WD(6d)
S8K8-7100	Retaining Wall (RW A to RW F, +92.4 mpd) - Excavation to formation level, Trimming existing Shotcrete	18	25-Aug-25	13-Sep-25	-313	WD(6d)
S8K8-7110	Retaining Wall (RW A to RW F, +92.4 mpd) - Lay Geotextile & Connection rod at Soil nail head	3	15-Sep-25	17-Sep-25	-313	WD(6d)
S8K8-7120	Retaining Wall (RW A to RW F, +94.0 mpd) - Erect Formwork & Concreting	66	18-Sep-25	06-Dec-25	-313	WD(6d)
E&M Works						
S8K8-4040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FWSR	19	07-Oct-24 A	15-Aug-25	-109	WD(6d)
S8K8-4050	Installation of E&M equipment for KTN FWSR	25	06-May-25 A	22-Aug-25	-115	WD(6d)
S8K8-4060	Testing & Commissioning (T&C) of E&M equipment for KTN FWSR	7	23-Aug-25	29-Aug-25	-143	CD(7d)
S8K8-4070	Freshwater Service Reservoir - Energization	0		16-Jul-25 A		CD(7d)
Remaining pipe laying work and roadworks within Road W1 & W2						
S8K8-4206	Road W2 - Laying CHB connection to Outlet Chamber	6	25-Jun-25 A	01-Aug-25	-92	WD(6d)
Remaining Civil Work in Portion 8a Area A						
S8P8a-2200.10	Slopeworks for KS46 - Construct Remaining Slope Drainage	12	25-Jul-25	07-Aug-25	-97	WD(6d)
S8P8a-2200.12	Slopeworks for KS46 - Construct Slope Toe Drainage	12	25-Jul-25	07-Aug-25	-97	WD(6d)
S8P8a-2336	Slopeworks for KS47 - Reinstatement of Slope Toe	0	16-Jun-25 A	28-Jun-25 A		WD(6d)
S8P8a-2564	Retaining wall KW06 - Drainage Construction	12	23-Aug-25	05-Sep-25	-122	WD(6d)
S8P8a-2604	Retaining wall KW05 - Drainage Construction	12	23-Aug-25	05-Sep-25	-122	WD(6d)
S8P8a-2664	Retaining wall KW11 - Drainage Construction	12	23-Aug-25	05-Sep-25	-124	WD(6d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25

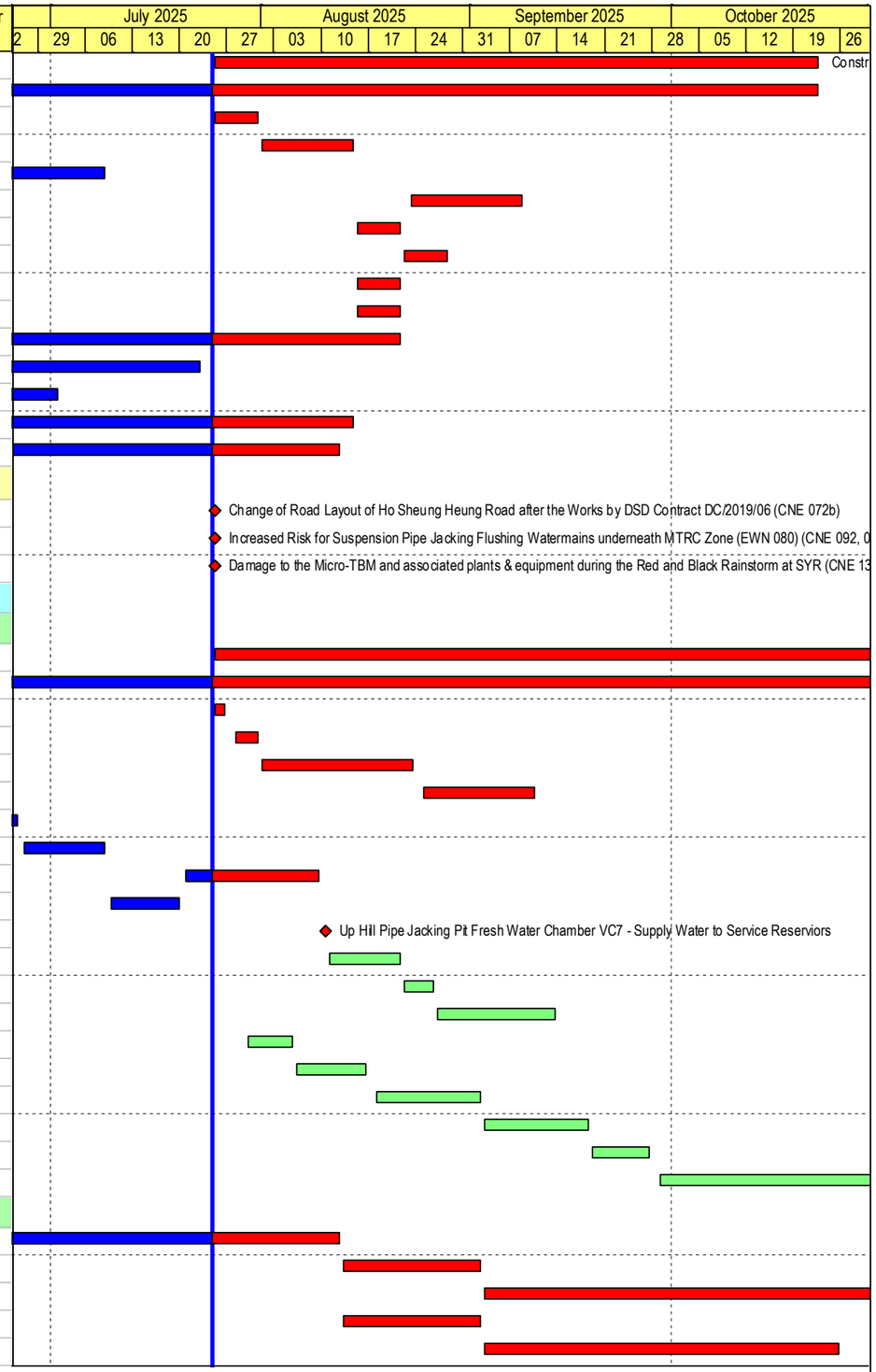
Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P8a-3046	Construct & maintain Temporary drainage	75	25-Jul-25	22-Oct-25	-190	WD(6d)
S8P8a-3090	Remove Temporary Haul Road from Additional Land Adjacent to Portion 8a (CNE 220)	75	02-Jun-25 A	22-Oct-25	-190	WD(6d)
S8P8a-5040	Road W1 - Construct New Formed Rock Fill Slope KS50 (No fines CH0 - CH50) (CE 613)	6	25-Jul-25	31-Jul-25	-115	WD(6d)
S8P8a-5042	Road W1 - Construct Remianing Slope Drainage (CH0 - CH50) (CE 613)	12	01-Aug-25	14-Aug-25	-115	WD(6d)
S8P8a-5050.0	Slopeworks for KS50 - Construct Slope Drainage (CE 613)	0	15-May-25 A	09-Jul-25 A		WD(6d)
S8P8a-5900.84	KW11 at CH775 to CH780 - Construct Outfall for PC2	14	23-Aug-25	08-Sep-25	-124	WD(6d)
S8P8a-6032.30	Road W1 - Road Pavement Construction SMH KT 7018A connection to KT 7019A connection (4 / 13 bays Complete)	6	15-Aug-25	21-Aug-25	-115	WD(6d)
S8P8a-6032.40	Road W1 - Footpath Construction	6	22-Aug-25	28-Aug-25	-115	WD(6d)
S8P8a-6034.60	Road W1 - Footpath Construction	6	15-Aug-25	21-Aug-25	-109	WD(6d)
S8P8a-6106	Road W1 - Footpath Construction	6	15-Aug-25	21-Aug-25	-109	WD(6d)
S8P8a-7200	Road W1 & W2 - Erect Security Fence and Install Gate	24	21-Apr-25 A	21-Aug-25	-109	WD(6d)
S8P8a-7230	Road W1 & W2 - Power Cable Laying by CLP (Road A5 to Fresh Water Reservior)	0	29-Mar-25 A	23-Jul-25 A		WD(6d)
S8P8a-7240	Road W1 & W2 - Teleocm Cable Laying	0	29-Mar-25 A	02-Jul-25 A		WD(6d)
S8P8a-7280	Road W2 Road Furniture - Install Crash Beam Barriers	18	18-Apr-25 A	14-Aug-25	-103	WD(6d)
S8P8a-7290	Road W1 & W2 Road Furniture - Install Road Signage	16	25-Jun-25 A	12-Aug-25	-101	WD(6d)
Portion 8b in Area A (Soil Treatment & Install Watermains by Trenchless / Open Trench Method)						
S8P8b-1008	Change of Road Layout of Ho Sheung Heung Road after the Works by DSD Contract DC/2019/06 (CNE 072b)	0		25-Jul-25	-303	CD(7d)
S8P8b-8170	Increased Risk for Suspension Pipe Jacking Flushing Watermains underneath MTRC Zone (EWN 080) (CNE 092, 092a, CE 408)	0		25-Jul-25	-466	CD(7d)
S8P8b-8174	Damage to the Micro-TBM and associated plants & equipment during the Red and Black Rainstorm at SYR (CNE 137a)	0		25-Jul-25	-466	CD(7d)
Construction of Watermains						
Construction of watermains by trenchless method						
S8P8b-4000	Construct & maintain Temporary drainage	349	25-Jul-25	23-Sep-26	-339	WD(6d)
S8P8b-4012.300	Inclined Drilling & Grouting 11 / 18 (1 Rig / 4 nights per week after end April 2025) (CNE 092, 158, 160, CE 408)	65	26-Mar-24 A	29-Dec-25	-224	WD(3d)
S8P8b-4013.081	SYR Rescue Pit - Carry out pumping test - stage 3 (CNE 092, 137a, CE 408)	2	25-Jul-25	26-Jul-25	-466	CD(7d)
S8P8b-4013.082	SYR Rescue Pit - Breaking & removal of concrete pipes inside the pit (CNE 092, 137a, CE 408)	4	28-Jul-25	31-Jul-25	-378	WD(6d)
S8P8b-4013.083	SYR Rescue Pit - Excavate to final excavation level (CNE 092, 137a, CE 408)	20	01-Aug-25	23-Aug-25	-378	WD(6d)
S8P8b-4013.084	SYR Rescue Pit -Construction of concrete plug at the bottom of pit (CNE 092, 137a, CE 408)	15	25-Aug-25	10-Sep-25	-378	WD(6d)
S8P8b-4150.0	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Pre Stage L3a - Remove Strut S2	0	24-Jun-25 A	26-Jun-25 A		CD(7d)
S8P8b-4152	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Stage L3a - ELS Modification, RC Chamber, Backfill, Remove ELS	0	27-Jun-25 A	09-Jul-25 A		CD(7d)
S8P8b-4152.0	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 - Install Down Pipe & Connect to Uphill Watermain	16	21-Jul-25 A	09-Aug-25	-128	CD(7d)
S8P8b-4152.00	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Break Entrace Wall and Entrance Ring	0	10-Jul-25 A	20-Jul-25 A		CD(7d)
S8P8b-4153.0	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 - Supply Water to Service Reserviors	0		10-Aug-25	-128	CD(7d)
S8P8b-4156	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Stage L3b - Erect Scaffolding, Formwork, Rebar & Concreting	10	11-Aug-25	21-Aug-25	441	WD(6d)
S8P8b-4156.0	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Pre Stage L4 - Backfilling	4	22-Aug-25	26-Aug-25	441	WD(6d)
S8P8b-4158	Up Hill Pipe Jacking Pit Fresh Water Chamber VC7 Stage L4 - Erect Fwk, Rebar fixing & Cast Roof Slab	16	27-Aug-25	13-Sep-25	441	WD(6d)
S8P8b-4500	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Backfill & Remove S5 / Backfill to S4 / Blinding	6	30-Jul-25	05-Aug-25	360	WD(6d)
S8P8b-4510	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Lower Base Slab & Lower Wall (1st Pour)	10	06-Aug-25	16-Aug-25	361	WD(6d)
S8P8b-4520	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Backfill & Remove S3 / Lower Wall (2nd Pour)	14	18-Aug-25	02-Sep-25	361	WD(6d)
S8P8b-4530	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Backfill & Remove S2 / Lower Wall (3rd Pour)	14	03-Sep-25	18-Sep-25	360	WD(6d)
S8P8b-4540	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Upper Base Slab Construction	8	19-Sep-25	27-Sep-25	360	WD(6d)
S8P8b-4550	Up Hill Pipe Jacking Pit Flushing Water Chamber VC8 - Extebnd LCS / Watermain Fitting	32	29-Sep-25	07-Nov-25	360	WD(6d)
Construction of watermains by open trench method						
S8P8b-7109.0	Reinstatement of Ho Sheung Heung Road after Fresh watermain Diversion (CNE 072)	16	20-Jun-25 A	12-Aug-25	-260	WD(6d)
S8P8b-8012	HSH Rd Flushing watermain - TTA, Excavate, Install DN100 & DN200 and Backfilling (CHY 871 to 887) (CNE 072)	18	13-Aug-25	02-Sep-25	-260	WD(6d)
S8P8b-8020	HSH Rd Flushing watermain - TTA, Excavate, Remove Ext. DN 700, Laying Pipes and Backfilling (CHY 820 to 875) (CNE 072)	56	03-Sep-25	10-Nov-25	-260	WD(6d)
S8P8b-8120	HSH Rd Flushing watermain - TTA, Excavation, Laying Pipes and Backfilling (CHY 587 to Jacking Pit) (CNE 072)	18	13-Aug-25	02-Sep-25	-112	WD(6d)
S8P8b-8140	HSH Rd Flushing watermain - TTA,Excavate, Remove Ext. DN 700, Laying Pipes and Backfilling (587 to 621) (CNE 072)	44	03-Sep-25	25-Oct-25	-112	WD(6d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25

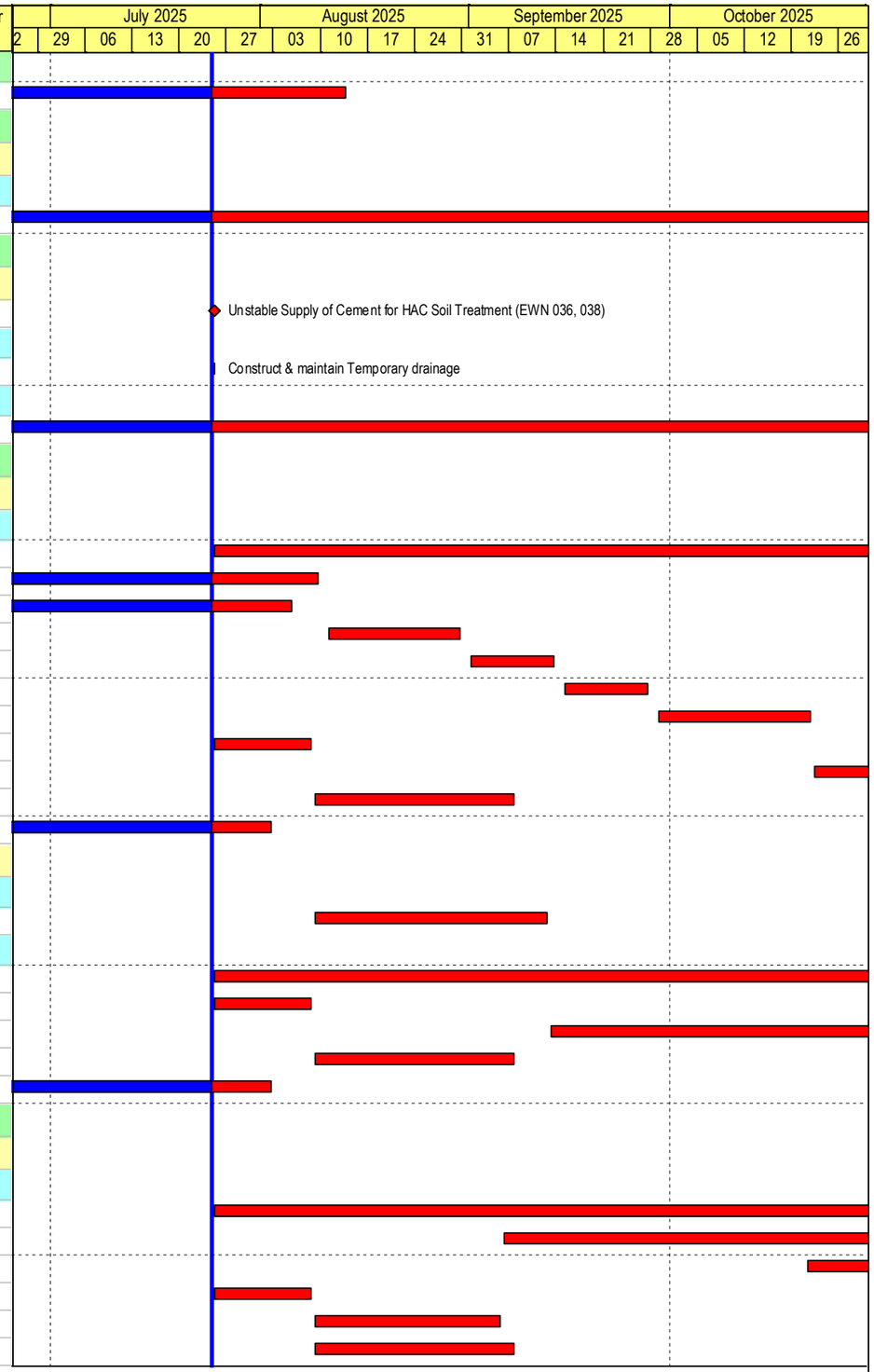
Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Testing and commissioning of watermains						
S8P8b-6000	Testing and commissioning of Fresh Watermains	17	21-Dec-24 A	13-Aug-25	-7	WD(6d)
Section 9						
Portion 12 in Area F (Soil Treatment & Interface with EMSD's Contractors)						
Soil Treatment						
S9P12-3060	Tunnel Monitoring during Construction Works within MTRC Protectiion Zone in Portion 1a	236	28-Dec-23 A	15-Jul-26	-138	CD(7d)
Section 11						
Portion 6b in Area B (Soil Treatment & Operation of HAC Soil Treatment Plant)						
S11P6b-1002	Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038)	0		25-Jul-25	-166	CD(7d)
KD4 - Setting up and T&C of the High Arsenic-containing Soil Treatment Plant						
S11P6b-2005	Construct & maintain Temporary drainage	0	25-Jul-25	25-Jul-25	493	WD(6d)
Operation and Dismantling of the Soil Treatment Plant						
S11P6b-3010	Provide treatment to high arsenic-containing soil	277	03-Dec-20 A	30-Jun-26*	-411	WD(6d)
Section 12A						
Portion 10b in Area L1 (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S12P10b-3000	Construct & maintain Temporary drainage	122	25-Jul-25	17-Dec-25	-370	WD(6d)
S12P10b-3002	Underground Primary Drainage Laying DN900 Pipe SMHKT 8008A to KT 8009 Connection (0/1 MH) (CNE 211)	14	16-Jun-25 A	09-Aug-25	-370	WD(6d)
S12P10b-3002.0	Underground Primary Drainage SMHKT 8005A to KT 8005B (2/2 MH complete) (CNE 211)	10	20-Jun-25 A	05-Aug-25	-404	WD(6d)
S12P10b-3002.10	Underground Primary Drainage - Lay Inlet Pipe to SMHKT 8008A (CNE 211)	18	11-Aug-25	30-Aug-25	-370	WD(6d)
S12P10b-3004	Underground Sewerage - Lay Inlet Pipe to FMHKT 4.03 (CNE 156) (CNE 211)	12	01-Sep-25	13-Sep-25	-370	WD(6d)
S12P10b-3006	Underground Sewerage - Laying DN450 Pipe from FMHKT 4.03 to 4.02 (Partial only) (CE 256) (CNE 211)	12	15-Sep-25	27-Sep-25	-370	WD(6d)
S12P10b-3012	Underground Secondary Drainage work M1.40 to M1.41 (0 / 2 SM/H) (CNE 211)	18	29-Sep-25	21-Oct-25	-370	WD(6d)
S12P10b-3014	Laying Underground Fresh & Flushing Watermains (CNE 211)	13	25-Jul-25 A	08-Aug-25	-404	WD(6d)
S12P10b-3016	Laying Underground utilities (CNE 211)	24	22-Oct-25	19-Nov-25	-370	WD(6d)
S12P10b-3018	CCTV & Pressure test for Fresh & Flushing watermains (CNE 211)	30	09-Aug-25	07-Sep-25	-382	CD(7d)
S12P10b-4020	Make good Damaged Sewerage & Drainage Works (CNE 211)	8	02-May-25 A	02-Aug-25	-346	WD(6d)
Portion 11b in Area L1 (Soil Treatment, Drainage & Roadwork)						
Soil Treatment						
S12P11b-2020	Backfilling to the formation levels	30	09-Aug-25	12-Sep-25	-404	WD(6d)
Civil Work						
S12P11b-3000	Construct & maintain Temporary drainage	121	25-Jul-25	16-Dec-25	-404	WD(6d)
S12P11b-4030	Laying Underground Fresh & Flushing Watermains (CNE 211)	13	25-Jul-25 A	08-Aug-25	-404	WD(6d)
S12P11b-4040	Laying Underground utilities (CNE 211)	48	13-Sep-25	11-Nov-25	-404	WD(6d)
S12P11b-4050	CCTV & Pressure test for Fresh & Flushing watermains (CNE 211)	30	09-Aug-25	07-Sep-25	-430	CD(7d)
S12P11b-4060	Make good Damaged Sewerage & Drainage Works (CNE 211)	8	02-May-25 A	02-Aug-25	-369	WD(6d)
Section 12B						
Portion 11b in Area L2 (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S12BP11b-3000	Construct & maintain Temporary drainage	85	25-Jul-25	04-Nov-25	-27	WD(6d)
S12BP11b-3020	Roadwork (1070m2)	48	06-Sep-25	04-Nov-25	-27	WD(6d)
S12BP11b-3022	Road Works - Irrigation System Installation	30	21-Oct-25	25-Nov-25	-27	WD(6d)
S12PB11b-4080	Laying Underground Fresh & Flushing Watermains	13	25-Jul-25 A	08-Aug-25	-27	WD(6d)
S12PB11b-4090	Laying Underground utilities	24	09-Aug-25	05-Sep-25	-27	WD(6d)
S12PB11b-4100	CCTV & Pressure test for Fresh & Flushing watermains	30	09-Aug-25	07-Sep-25	-20	CD(7d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

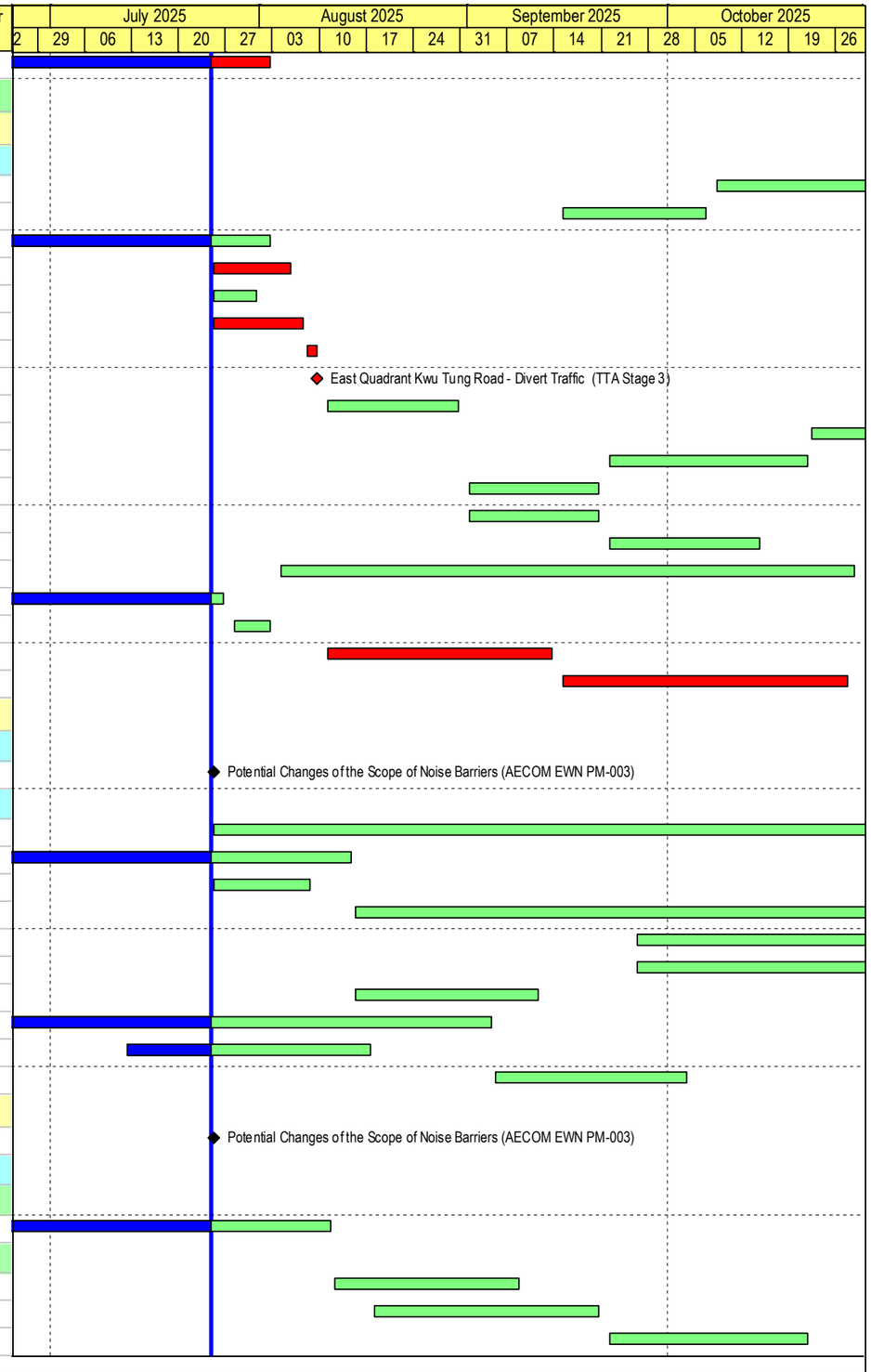
Data Date: 25-Jul-25

Run Date: 30-Jul-25

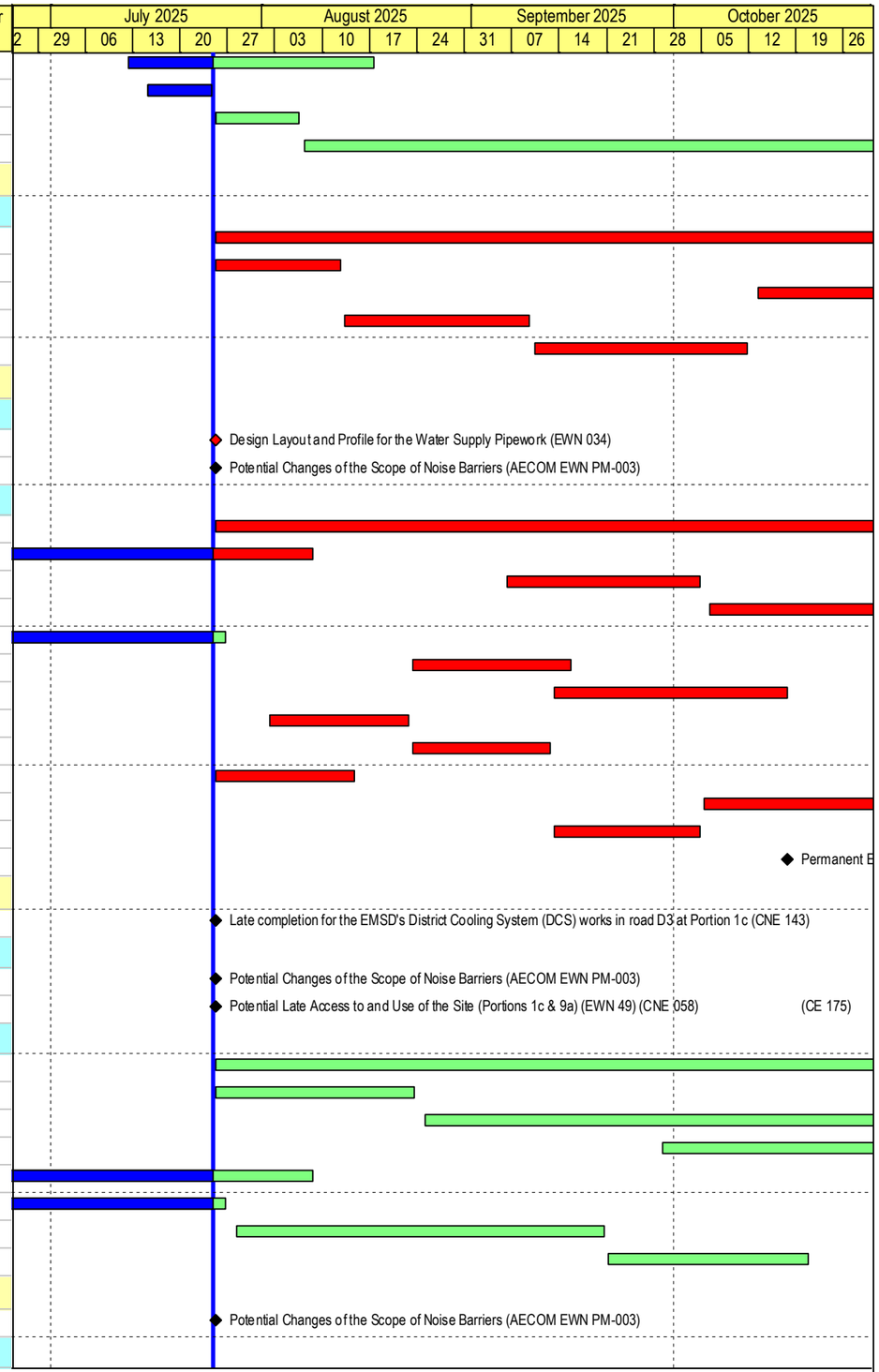
Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S12PB11b-4110	Make good Damaged & Sewerage Drainage Works (CNE 211)	8	02-May-25 A	02-Aug-25	-22	WD(6d)
Section 13						
Portion 2 in Area N (Soil Treatment, Slope, Drainage & Pak Shek Au Junction)						
Civil Works						
S13P2- 4052.40	East Quadrant Kwu Tung Road - New Feature KS39 Construct Slope Drainage	24	08-Oct-25	05-Nov-25	80	WD(6d)
S13P2- 4052.52	East Quadrant Kwu Tung Road - Construct New Feature KS39 (Remaining Slope)	18	15-Sep-25	06-Oct-25	80	WD(6d)
S13P2- 5030	West Quadrant Additional Land - Road Widening Works (Western Part Kwu Tung Road - Stage 2)	8	19-May-25 A	02-Aug-25	1	WD(6d)
S13P2- 5032	West Quadrant - Construction of Footpath (Stage 2 - West corner)	10	25-Jul-25	05-Aug-25	-1	WD(6d)
S13P2- 5034	West Quadrant - Remaining Installation of smart road lightings system	6	25-Jul-25	31-Jul-25	3	WD(6d)
S13P2- 5036	Retaining Wall KW37 - Construct Maintenance Stair Case	12	25-Jul-25	07-Aug-25	-3	WD(6d)
S13P2- 5040	East Quadrant Kwu Tung Road - Preparation for Road Diversion (TTA Stage 3)	2	08-Aug-25	09-Aug-25	-3	WD(6d)
S13P2- 5050	East Quadrant Kwu Tung Road - Divert Traffic (TTA Stage 3)	0		09-Aug-25	-3	WD(6d)
S13P2- 5292	South Quadrant - Slope KS38 Cut Lower slope	18	11-Aug-25	30-Aug-25	68	WD(6d)
S13P2- 5294	South Quadrant - Slope KS38 Lower slope Drainage and Maintenance Access Construction	12	22-Oct-25	05-Nov-25	68	WD(6d)
S13P2- 5300	South Quadrant - Construct U Channel Drainage and Berm (Row C to J)	24	22-Sep-25	21-Oct-25	68	WD(6d)
S13P2- 5320	South Quadrant - Erect Platform and Soil Nail (2SE-B/CR148 & KS38) Row B (38 Nos)	18	01-Sep-25	20-Sep-25	68	WD(6d)
S13P2- 5330	South Quadrant - Erect Platform and Soil Nail (2SE-B/CR148 & KS38) Row A (38 Nos)	18	01-Sep-25	20-Sep-25	68	WD(6d)
S13P2- 5340	South Quadrant - Construct U Channel Drainage and Berm (Row A & B)	18	22-Sep-25	14-Oct-25	86	WD(6d)
S13P2- 6020	West Quadrant - Existing Feature 2SE-B/C157 Loose Fill to be Replaced by Compact fill	72	04-Aug-25	28-Oct-25	2	WD(6d)
S13P2- 6684	East Quadrant Kwu Tung Road - Backfill and lay Sub base Course	2	28-Apr-25 A	26-Jul-25	2	WD(6d)
S13P2- 6686	East Quadrant Kwu Tung Road - Road Kerb, Lay Base course and Blinder Course	6	28-Jul-25	02-Aug-25	2	WD(6d)
S13P2- 6710	East Quadrant Kwu Tung Road - Demolish TTA Stage 2 Temp Road	30	11-Aug-25	13-Sep-25	-3	WD(6d)
S13P2- 6720	East Quadrant Kwu Tung Road - Remaining Road Work and Traffic Islands (TTA Stage 4)	35	15-Sep-25	27-Oct-25	-3	WD(6d)
Portion 1a in Area N (Soil Treatment, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S13P1a-0102	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	82	CD(7d)
Civil Work						
S13P1a-3000	Construct & maintain Temporary drainage	84	25-Jul-25	03-Nov-25	50	WD(6d)
S13P1a-3028.0	Remaining Underground Utilities & Road Lighting (Handover to CLP, HKT - TBC) South Footpath	18	05-Jun-25 A	14-Aug-25	50	WD(6d)
S13P1a-3028.10	Laying Cross Road Flushing watermain CHW (CH316 - CH351)	13	25-Jul-25 A	08-Aug-25	91	WD(6d)
S13P1a-3030	Remaining Roadwork at Roundabout Junction	72	15-Aug-25	10-Nov-25	50	WD(6d)
S13P1a-3032	Road Works - Irrigation System Installation - East bound Footpath	30	26-Sep-25	03-Nov-25	50	WD(6d)
S13P1a-3036	Road Works - Irrigation System Installation - West bound Footpath	30	26-Sep-25	03-Nov-25	50	WD(6d)
S13P1a-3070	South Footpath Paving Blocks	24	15-Aug-25	11-Sep-25	98	WD(6d)
S13P1a-3080	Nortth Footpath Formation & SRT	36	16-Jun-25 A	04-Sep-25	80	WD(6d)
S13P1a-3082	North Footpath Road lighting & (Handover to CLP, Towngas, HKT - TBC)	24	12-Jul-25 A	17-Aug-25	115	CD(7d)
S13P1a-3090	Nortth Footpath Paving Blocks	24	05-Sep-25	03-Oct-25	80	WD(6d)
Portion 7 in Area N (Soil Treatment, Drainage & Roadwork)						
S13P7-0000	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	107	CD(7d)
Civil Work						
Underground Utilities						
S13P7-3025	Laying Underground Utilities & Road Lighting (Handover to CLP, HKT - 1 Mar 2025) South Footpath	18	01-Mar-25 A	11-Aug-25	107	CD(7d)
Roadworks						
S13P7-3013.24	South Footpath Paving Blocks	24	12-Aug-25	08-Sep-25	111	WD(6d)
S13P7-3100	North Footpath - Compaction/ SRT / Lay Road Lighting ducts	30	18-Aug-25	20-Sep-25	122	WD(6d)
S13P7-3110	North Footpath Paving Blocks	24	22-Sep-25	21-Oct-25	122	WD(6d)



Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S13P7-3120	North Footpath Road lighting & (Handover to CLP, Towngas, HKT - TBC)	24	12-Jul-25 A	17-Aug-25	149	CD(7d)
S13P7-3130	Road D1 & L1 Junction - Removal of DCS Temp works (2 Nos Struts & 13m x 1.5m Sheet Pile) (CE 695)	0	15-Jul-25 A	24-Jul-25 A		WD(6d)
S13P7-3140	Road D1 & L1 Junction - Laying Watermain CHE & CHR & Connection (CE 695)	11	25-Jul-25 A	06-Aug-25	21	WD(6d)
S13P7-3200	Road D1 & L1 Junction - Road Works (CE 695)	72	07-Aug-25	01-Nov-25	21	WD(6d)
Portion 1b in Area N (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S13P1b-3000	Construct & maintain Temporary drainage	162	25-Jul-25	05-Feb-26	-28	WD(6d)
S13P1b-3012.10	Laying Remainig Sewerage Pipe	16	25-Jul-25	12-Aug-25	-28	WD(6d)
S13P1b-3014.00	Backfill and Laying of Fresh Watermain CH J & Flushing Watermain CH T	24	13-Oct-25	10-Nov-25	-28	WD(6d)
S13P1b-3014.04	Backfilling to Formation Level	24	13-Aug-25	09-Sep-25	-28	WD(6d)
S13P1b-3016	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 01 Feb 2025)	26	10-Sep-25	11-Oct-25	-28	WD(6d)
Portion 6a & 5 in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S13P6a-1003	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Jul-25	-16	CD(7d)
S13P6a-1005	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	38	CD(7d)
Civil Work						
S13P6a-3000	Construct & maintain Temporary drainage	163	25-Jul-25	06-Feb-26	-29	WD(6d)
S13P6a-3018	Laying of Fresh Watermain CH I & Flushing Watermain CH QA	13	14-Apr-25 A	08-Aug-25	-14	WD(6d)
S13P6a-3020	Remianing formation and SRT for South Footpath	24	06-Sep-25	04-Oct-25	-29	WD(6d)
S13P6a-3040	Roadwork (1212m2, 18.7m2 / day, 1 gang)	66	06-Oct-25	23-Dec-25	-29	WD(6d)
S13P6a-4002	DCS Works by Others - Stage 2 (Anticipated Commencement Date Oct-2024) 'To be Confirmed'	2	15-Oct-24 A	26-Jul-25	4	CD(7d)
S13P6a-4018	Pressure test for watermains	24	23-Aug-25	15-Sep-25	-23	CD(7d)
S13P6a-4030	Construct Secondary Drainage and Backfill - (0 / 10 MH complete)	28	13-Sep-25	17-Oct-25	-20	WD(6d)
S13P6a-4040	Laying of Fresh Watermain CHJ & Flushing Watermain CHT & Backfill	18	02-Aug-25	22-Aug-25	-29	WD(6d)
S13P6a-4040.0	Laying Cross Road Flushing Watermain CH Q	18	23-Aug-25	12-Sep-25	-29	WD(6d)
S13P6a-4042	Civil Provision for CLP & HKT	18	25-Jul-25	14-Aug-25	-29	WD(6d)
S13P6a-5100	Laying Underground Utilities (CLP, Towngas, HKT - 2 Aug 2025) 'To be Confirmed'	30	05-Oct-25	03-Nov-25	-24	CD(7d)
S13P6a-5132	North Side Footpath - Formation and Sub base Course (CH 210 -265)	18	13-Sep-25	04-Oct-25	-29	WD(6d)
S13P6a-5180	Permanent Entrance for YL	0		17-Oct-25	125	WD(6d)
Portion 1c in Area N (Soil Treatment, Drainage & Roadwork)						
S13P1c-0004	Late completion for the EMSD's District Cooling System (DCS) works in road D3 at Portion 1c (CNE 143)	0		25-Jul-25	15	CD(7d)
Preparation work/Tree Survey/Site Clearance/GI						
S13P1c-0102	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	15	CD(7d)
S13P1c-1000	Potential Late Access to and Use of the Site (Portions 1c & 9a) (EWN 49) (CNE 058) (CE 175)	0		25-Jul-25	239	CD(7d)
Civil Work						
S13P1c-3000	Construct & maintain Temporary drainage	98	25-Jul-25	19-Nov-25	24	WD(6d)
S13P1c-3010.10	Laying Underground Utilities North Footpath (Gas, CLP, Telecom - 28 Mar 2025) & Road lighting	30	25-Jul-25	23-Aug-25	29	CD(7d)
S13P1c-3020	Roadwork (1500m2)	72	25-Aug-25	19-Nov-25	24	WD(6d)
S13P1c-3022	Road Works - Irrigation System Installation - East bound Footpath	42	29-Sep-25	19-Nov-25	31	WD(6d)
S13P1c-5100	Construct 2 nos Washout CHI & CHQA at CH 282	13	26-May-25 A	08-Aug-25	37	WD(6d)
S13P1c-5110	Lay Sub base & SRT (CH280 - CH330)	2	29-May-25 A	26-Jul-25	72	WD(6d)
S13P1c-5120	Lay ducting for Traffic Light (CE to be issued)	48	28-Jul-25	20-Sep-25	72	WD(6d)
S13P1c-5130	T&C for Traffic Light	30	21-Sep-25	20-Oct-25	151	CD(7d)
Portion 9a in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						
S13P9a-0100	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Jul-25	45	CD(7d)
Civil Work						



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

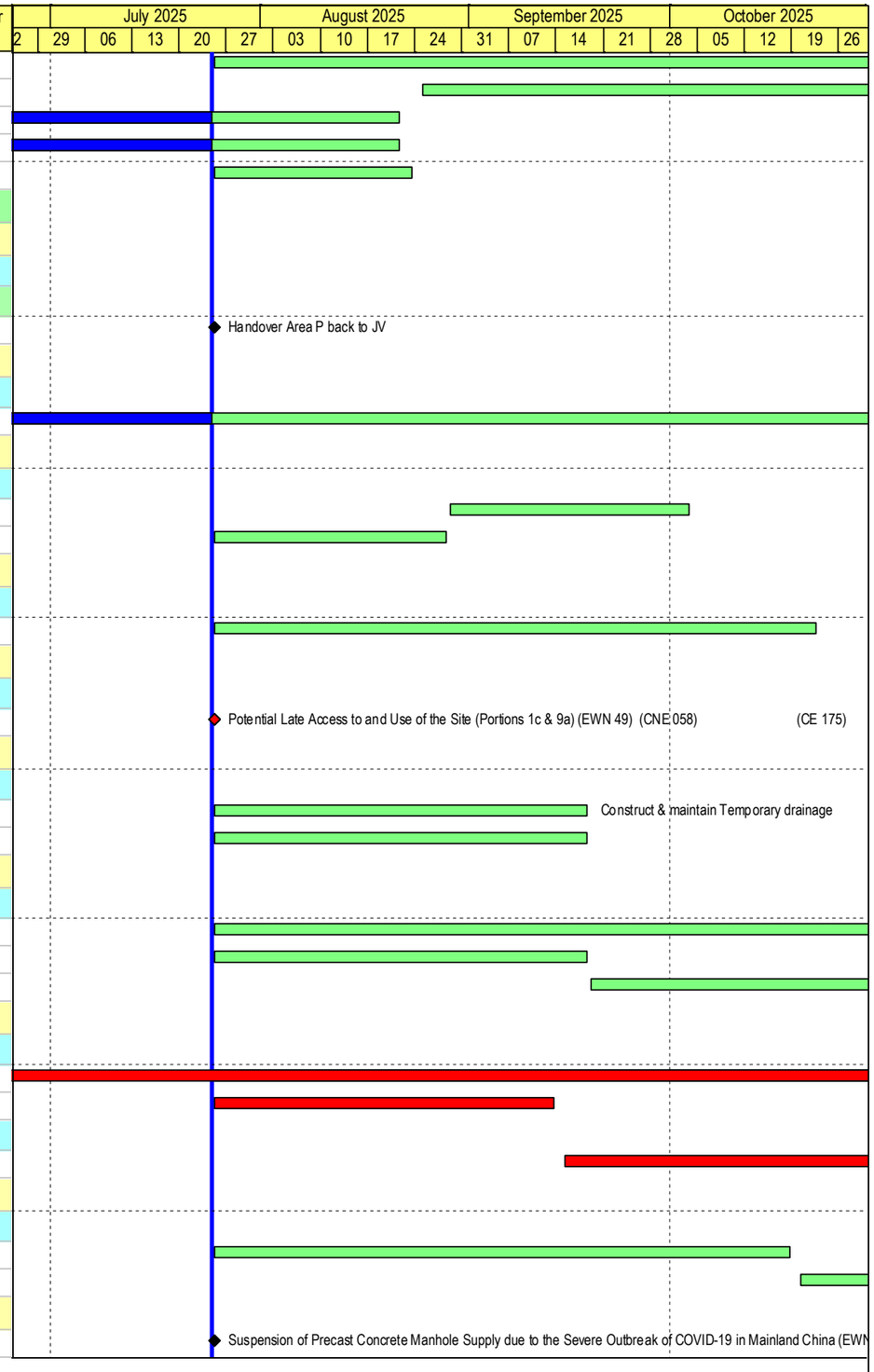
ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S13P9a-3000	Construct & maintain Temporary drainage	122	25-Jul-25	17-Dec-25	12	WD(6d)
S13P9a-3030	Roadwork (370m2)	72	25-Aug-25	19-Nov-25	12	WD(6d)
S13P9a-3086.00	Additional Noise barrier NB04 - Fabrication, Factory Testing & Delivery of Steel Frame & Panels	24	25-Mar-25 A	21-Aug-25	72	WD(6d)
S13P9a-3102.00	Additional Noise barrier NB55 - Fabrication, Factory Testing & Delivery of Steel Frame & Panels	24	25-Mar-25 A	21-Aug-25	72	WD(6d)
S13P9a-3110	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 9 Apr 2025)	30	25-Jul-25	23-Aug-25	15	CD(7d)
Section 14						
Portion 7 in Area P (Soil Treatment & KD3 - Tree Felling, General Site Clearance)						
KD3 - Tree felling, general site clearance (including the berm removal / levelling and general site						
Soil Treatment						
S14P7P-2040	Handover Area P back to JV	0		25-Jul-25*	178	WD(6d)
Portion 7 in Area S3 (Soil Treatment & Operation of HAC Soil Treatment Plant)						
Operation and Dismantling of the Soil Treatment Plant						
S14P7S3-3010	Stock Pile of Treated Soil	161	20-Nov-20 A	04-Feb-26	17	WD(6d)
Portion 7 in Area T1, T2, T3 (Soil Treatment & Temp. Noise Barrier along Castle Peak Road)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P7T-1012	Ground investigation (0 / 1 GI completed) (Area T1)	30	29-Aug-25	03-Oct-25	118	WD(6d)
S14P7T-1020	Site clearance (Area T1)	30	25-Jul-25	28-Aug-25	118	WD(6d)
Portion 1b in Area S2 (Soil Treatment)						
Soil Treatment						
S14P1b-2060	DCS Works by Others 'Date and Duration To be Confirmed'	90	25-Jul-25	22-Oct-25	128	CD(7d)
Portion 1c & 9a in Area S2 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P1c-1000	Potential Late Access to and Use of the Site (Portions 1c & 9a) (EWN 49) (CNE 058) (CE 175)	0		25-Jul-25	-166	CD(7d)
Portion 6a in Area S2 (Soil Treatment)						
Soil Treatment						
S14P6a-2000	Construct & maintain Temporary drainage	48	26-May-25 A	18-Sep-25	130	WD(6d)
S14P6a-2020	Backfilling to the formation levels	48	25-Jul-25	18-Sep-25	130	WD(6d)
Portion 6b in Area S2 (Soil Treatment)						
Soil Treatment						
S14P6b-2000	Construct & maintain Temporary drainage	108	26-May-25 A	01-Dec-25	70	WD(6d)
S14P6b-2020	Backfilling to the formation levels	48	25-Jul-25	18-Sep-25	70	WD(6d)
S14P6b-2100	Existing Feature 2SE-B/FR75 Existing Loose Fill to be Replaced by Compact Fill	48	19-Sep-25	17-Nov-25	70	WD(6d)
Portion 1f in Area R (Soil Treatment & Construction of Interim CLC)						
Soil Treatment						
S14P1f-3000	Construct & maintain Temporary drainage	134	24-Jun-25 A	03-Jan-26	-25	WD(6d)
S14P1f-3020	Backfilling to the formation levels	44	25-Jul-25	13-Sep-25	-25	WD(6d)
Civil Works						
S14P1f-4010	Roadwork (1470m2) (to be deleted)	90	15-Sep-25	03-Jan-26	-25	WD(6d)
Portion 9c in Area S1 (Soil Treatment)						
Soil Treatment						
S14P9c-2030	Existing Feature 2SE-B/FR72 Existing Loose Fill to be Replaced by Compact Fill	72	25-Jul-25	18-Oct-25	94	WD(6d)
S14P9c-2040	Existing Feature 2SE-B/FR72 Existing Loose Fill to be Replaced by Compact Fill - Hydroseeding	12	20-Oct-25	03-Nov-25	94	WD(6d)
Cycle Track from Area H to Area N						
S14CT-0100	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Jul-25	12	CD(7d)



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
Milestone
Milestone Critical
Summary LOE
Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

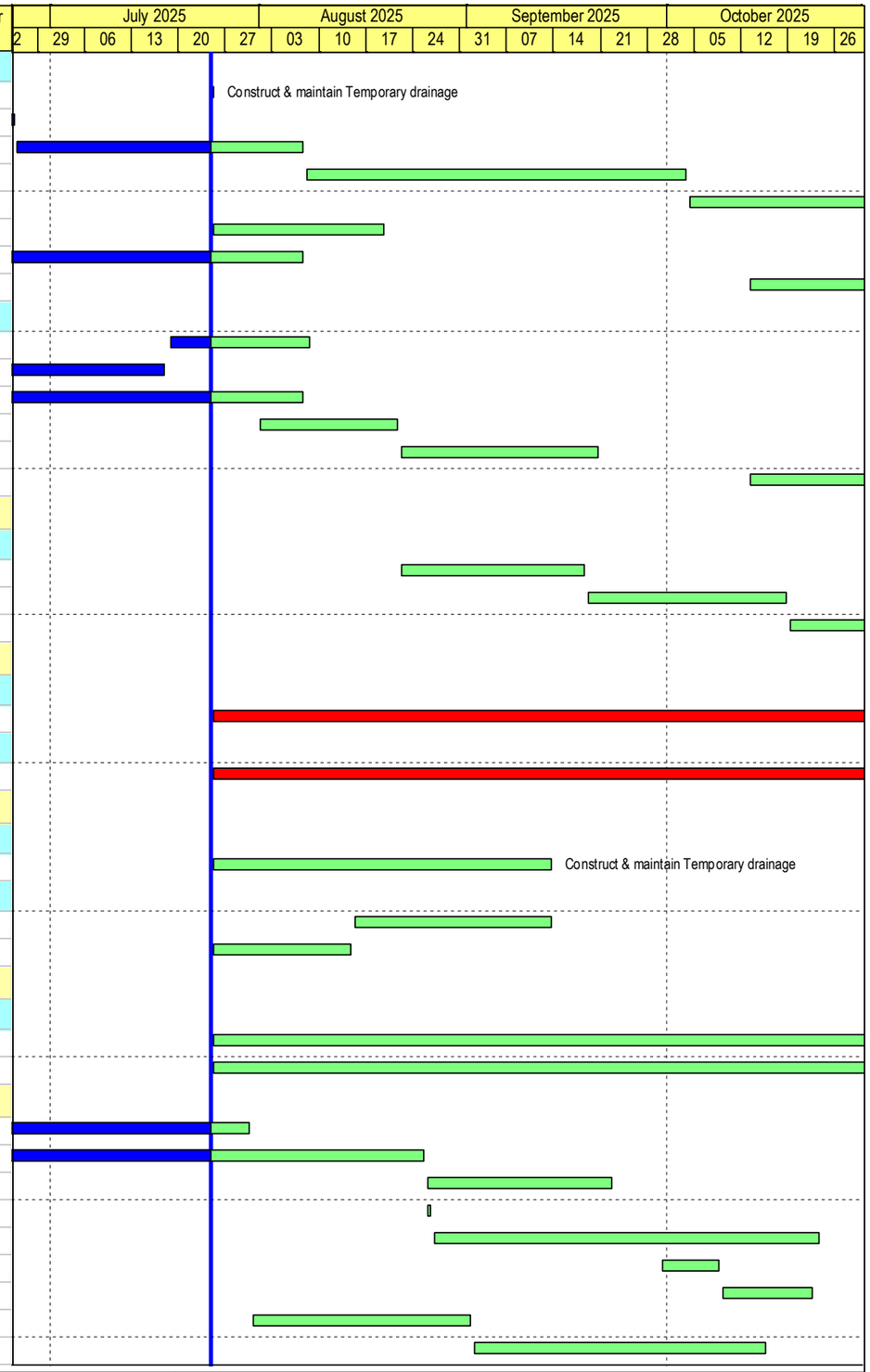
Data Date: 25-Jul-25

Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Underground Utilities underneath Cycle Track						
S14CT-1000	Construct & maintain Temporary drainage	0	25-Jul-25	25-Jul-25	493	WD(6d)
S14CT-1010.10	Road D1 Junction - Excavate and Laying remaining Swerage Pipe between FMH KT1.17 to KT1.18	0	10-Jun-25 A	25-Jun-25 A		WD(6d)
S14CT-1010.20	Road D1 Junction - Extract Sheet pile, Excavate, Lay Watermain in Portion 7 Flushing (CHU) & Fresh (CHK 400 - 412)	12	26-Jun-25 A	07-Aug-25	40	WD(6d)
S14CT-1010.30	Road D1 Junction - Foramation & SRT / Road Lighting	48	08-Aug-25	03-Oct-25	40	WD(6d)
S14CT-1010.40	Road D1 Junction - Laying Rd Lighting & Underground Utilities by Others (CLP & HKT) in Portion 7	42	04-Oct-25	24-Nov-25	40	WD(6d)
S14CT-1029.0	Laying Underground Utilities by Others (CLP & HKT) in Portion 7 (28 Apr 2025)	22	25-Jul-25	19-Aug-25	84	WD(6d)
S14CT-1172	Foramation & SRT / Smart Lighting Portion 9a & 5 North (CNE 224)	12	23-May-25 A	07-Aug-25	94	WD(6d)
S14CT-3020	Road Fixture and Road Furnitre Portion 5, 7 & 9a	72	13-Oct-25	08-Jan-26	40	WD(6d)
Underground Utilities underneath Cycle Track (within MTRC Protection Zone)						
S14CT-1020.00	Construct Underground Sewerage FMH KT1.16 at Portion 1a (0 / 1 Complete) & Backfill	13	19-Jul-25 A	08-Aug-25	21	WD(6d)
S14CT-1076	Laying Drainge Pipe SMH KT 3007 connection (Approx 20m)	0	16-Jun-25 A	18-Jul-25 A		WD(6d)
S14CT-1080	Laying Underground Watermain in Portion 1a & 5	12	20-May-25 A	07-Aug-25	10	WD(6d)
S14CT-1084	Foramation & SRT Portion 1a & 5	18	01-Aug-25	21-Aug-25	10	WD(6d)
S14CT-1140	Laying Smart Lighting / Underground Utilities by Others (CLP & HKT) Portion 1a & 5	26	22-Aug-25	20-Sep-25	81	WD(6d)
S14CT-1170	Road Fixture and Road Furnitre Portion 1a & 5 (Stage 2)	72	13-Oct-25	08-Jan-26	40	WD(6d)
Portion 1b Open Area (Soil Treatment & Civil Works)						
Civil Works						
S14P1b-1316.0	Laying Underground Watermain CHX and CHL (CH 200 to 217) at Intersection with Cycle Track (after the areas H/B from SFK)	24	22-Aug-25	18-Sep-25	10	WD(6d)
S14P1b-1320	Pressure test for Fresh & Flushing watermains	30	19-Sep-25	18-Oct-25	12	CD(7d)
S14P1b-4000	DCS Works by Others (Under MTRC Purveiw)	120	19-Oct-25	15-Feb-26	12	CD(7d)
Portion 3 Open Area (Soil Treatment & Civil Works)						
Soil Treatment						
S14P3-1201	Remove soil HAC Soil from Grid SA5G (assumed 5400m3)	157	25-Jul-25	30-Jan-26	-291	WD(6d)
Civil Works						
S14P3-1210	Construct & maintain Temporary drainage	289	25-Jul-25	15-Jul-26	-111	WD(6d)
Portion 5 Open Area (Soil Treatment & Civil Works)						
Soil Treatment						
S14P5-1190	Construct & maintain Temporary drainage	44	25-Jul-25	13-Sep-25	134	WD(6d)
Civil Works						
S14P5-1304	Pressure test for Fresh & Flushing watermains	30	15-Aug-25	13-Sep-25	167	CD(7d)
S14P5-1306	Remaining Underground Fresh & Flushing watermains	18	25-Jul-25	14-Aug-25	137	WD(6d)
Portion 1e (Soil Treatment)						
Soil Treatment						
S14P1e-2080	Backfilling to the formation levels	90	25-Jul-25	10-Nov-25	88	WD(6d)
S14P1e-3000	Construct & maintain Temporary drainage	90	24-May-25 A	10-Nov-25	88	WD(6d)
Ha Wong Yi Au Tai Po (CE 306, 396)						
TPHW-1120	XP Application (1, 2 & 3) (PMI 372) (CE 396) (EWN 102)	6	19-Feb-24 A	30-Jul-25	378	CD(7d)
TPHW-1510	Trench Excavation & Laying Salt watermain (South side Footpath TTA Stages 5 to 12) (PMI 372) (CE 396) (EWN 102)	27	20-May-25 A	25-Aug-25	412	WD(6d)
TPHW-1520	Footpath Reinstatement (South side) (PMI 372) (CE 396) (EWN 102)	24	26-Aug-25	22-Sep-25	441	WD(6d)
TPHW-1600	TTA Implementation (Stage 13 - Yung Yi Road) (PMI 372) (CE 396) (EWN 102)	1	26-Aug-25	26-Aug-25	412	WD(6d)
TPHW-1602	Trench Excavation & Laying Salt watermain (Footpath along Yung Yi Road)	48	27-Aug-25	23-Oct-25	412	WD(6d)
TPHW-1620	Remaining Fresh watermain - Excavation North Footpath Along Taipo Road (PMI 372) (CE 396)	6	30-Sep-25	08-Oct-25	313	WD(6d)
TPHW-1630	Remaining Fresh watermain - Laying, T&C, Connect to Existing and Reinstatement Works	12	09-Oct-25	22-Oct-25	417	WD(6d)
TPHW-1650	UU by others (CLP, Town Gas, Telecom) (PMI 372) (CE 396) (EWN 102, 114))	33	31-Jul-25	01-Sep-25	378	CD(7d)
TPHW-1660	South bound Carriageway (PMI 372) (CE 396) (EWN 102, 114)	36	02-Sep-25	15-Oct-25	307	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

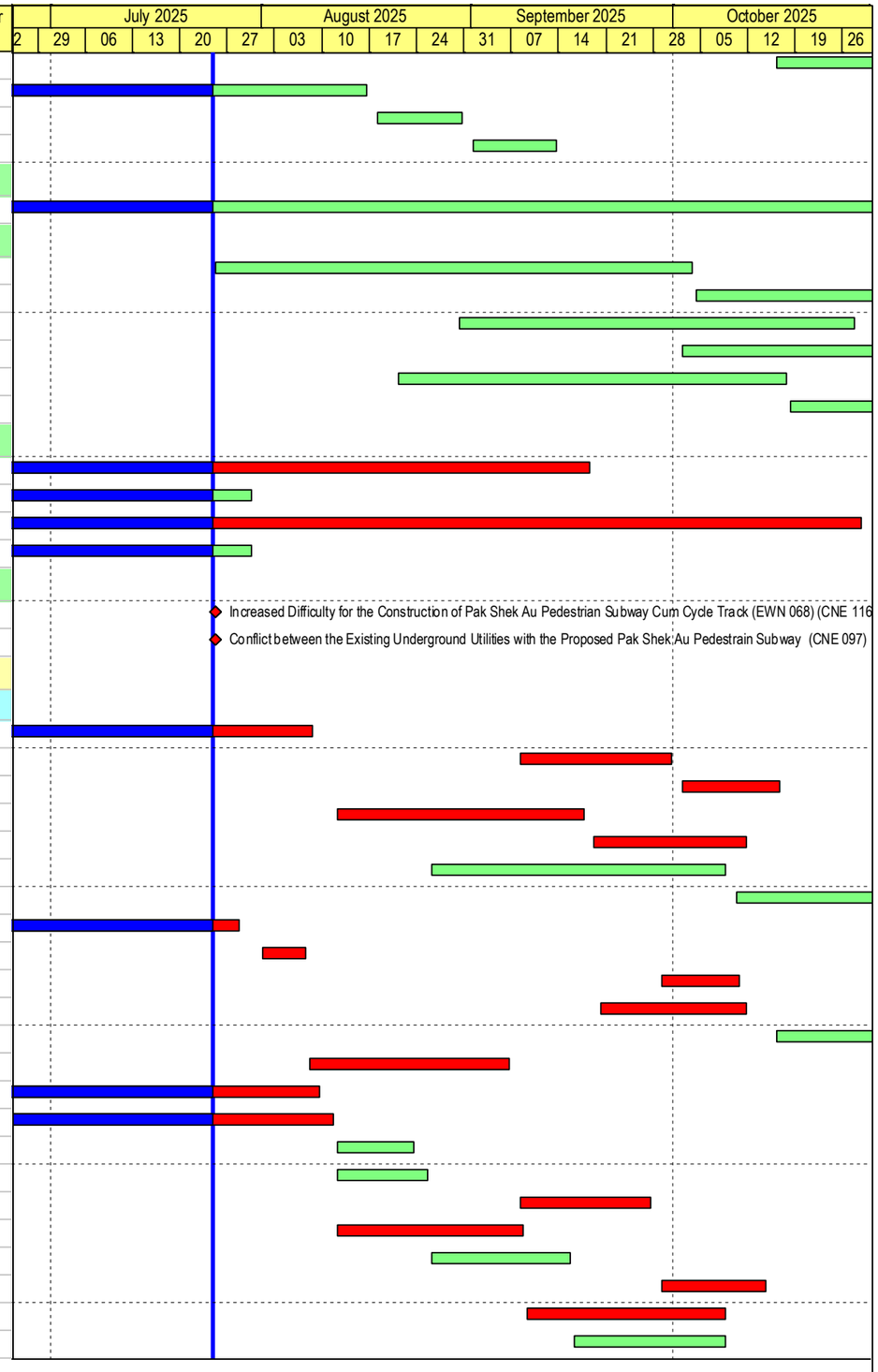
Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)

Date	Revision	Checked	Approved
30-Jul-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
TPHW-1670	Traffic Island Construction (PMI 372) (CE 396) (EWN 102, 114)	18	16-Oct-25	06-Nov-25	307	WD(6d)
TPHW-1800	Existing Slope - Reinstatemnet Works	20	02-Jun-25 A	16-Aug-25	444	WD(6d)
TPHW-1810	Existing Slope - Install Hand Railing & Misc Slope Works	12	18-Aug-25	30-Aug-25	444	WD(6d)
TPHW-1820	Existing Slope - Planting Works	12	01-Sep-25	13-Sep-25	444	WD(6d)
Section 15						
S15-1000	Presevation and protection of tree	196	06-Dec-19 A	05-Feb-26	43	CD(7d)
Section 16						
S16-2080	Landscape Works Road W2 to W5 - Soiling Works	60	25-Jul-25	03-Oct-25	64	WD(6d)
S16-2090	Landscape Works Road W2 to W5 - Planting Works	72	04-Oct-25	31-Dec-25	64	WD(6d)
S16-2100	Landscape Works Pak Shek Au Roundabout (South) - Soiling Works	48	30-Aug-25	27-Oct-25	90	WD(6d)
S16-2110	Landscape Works Pak Shek Au Roundabout (South) - Planting Works	48	02-Oct-25	28-Nov-25	90	WD(6d)
S16-2140	Landscape Works Road D5 and Road D4-2 - Soiling Works	48	21-Aug-25	17-Oct-25	65	WD(6d)
S16-2150	Landscape Works Road D5 and Road D4-2 - Planting Works	60	18-Oct-25	30-Dec-25	65	WD(6d)
Section 18 (Subject to excision)						
S18-1000	Watermain laying work in Portion 2	45	28-Mar-25 A	18-Sep-25	-36	WD(6d)
S18-1050	Watermain laying work in Portion 6a & 6b	5	18-Jul-22 A	30-Jul-25	7	WD(6d)
S18-1070	Watermain laying work in Portion 9b	80	03-Nov-22 A	28-Oct-25	-68	WD(6d)
S18-1075	Watermain laying work in Portion 8a	5	30-Jan-24 A	30-Jul-25	7	WD(6d)
Section 20 (Subject to excision)						
S20-1022	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116, CE 521)	0		25-Jul-25	-234	CD(7d)
S20-1026	Conflict between the Existing Underground Utilities with the Proposed Pak Shek Au Pedestrain Subway (CNE 097) (CE286)	0		25-Jul-25	-234	CD(7d)
Construction of Pedestrian Subway cum Cycle Track						
Civil and Structural Works						
S20S2-5030	Aluminium Roof - Fabrication & Delivery	10	21-Jun-25 A	08-Aug-25	-163	WD(6d)
S20S2-5040	Aluminium Roof - Frame Installation (Bay 1 - 3)	20	08-Sep-25	30-Sep-25	-178	WD(6d)
S20S2-5042	Aluminium Roof - Glazing & Panel Installation (Bay 1 - 3)	12	02-Oct-25	16-Oct-25	-178	WD(6d)
S20S2-5050	Aluminium Roof - Frame Installation (Bay 10 - 13)	32	12-Aug-25	17-Sep-25	-173	WD(6d)
S20S2-5052	Aluminium Roof - Glazing & Panel Installation (Bay 10 - 13)	18	19-Sep-25	11-Oct-25	-174	WD(6d)
S20S2-5060	Aluminium Roof - Frame Installation (Bay 16)	36	26-Aug-25	08-Oct-25	115	WD(6d)
S20S2-5062	Aluminium Roof - Glazing & Panel Installation (Bay 16)	18	10-Oct-25	31-Oct-25	114	WD(6d)
S20S2-7850.40	Bay No. 15 & 16 - Remove Strut/ Backfill / Waterproofing Membrane & No Fines (Stage 2 of 2)	3	10-Mar-25 A	28-Jul-25	-178	WD(6d)
S20S2-9050	Remove Debries (inside Bay 1 - 4)	6	01-Aug-25	07-Aug-25	-178	WD(6d)
S20S2-9150	Footpath & Cycle Track Construction (Bay 1 - 4)	9	29-Sep-25	10-Oct-25	-173	WD(6d)
S20S2-9160	Footpath & Cycle Track Construction (Bay 5 - 13)	17	20-Sep-25	11-Oct-25	-174	WD(6d)
S20S2-9170	Footpath & Cycle Track Construction (Bay 14 - 16)	13	16-Oct-25	31-Oct-25	114	WD(6d)
S20S2-9200	Finishing Footpath and Cycle Track (Bays 1 to 4)	26	08-Aug-25	06-Sep-25	-178	WD(6d)
S20S2-9210	Finishing Footpath and Cycle Track (Bays 5 to 9)	14	13-Jun-25 A	09-Aug-25	-174	WD(6d)
S20S2-9212	Finishing Footpath and Cycle Track (Bays 10 to 13)	15	25-Jun-25 A	11-Aug-25	-174	WD(6d)
S20S2-9214	Finishing Footpath and Cycle Track (Bays 14 & Part 15)	11	12-Aug-25	23-Aug-25	115	WD(6d)
S20S2-9220	Finishing Footpath and Cycle Track (Bays Part 15 & 16)	12	12-Aug-25	25-Aug-25	114	WD(6d)
S20S2-9230	Install lighting and E&M (Bays 1 to 4)	18	08-Sep-25	27-Sep-25	-176	WD(6d)
S20S2-9240	Install lighting and E&M (Bays 5 to 13)	24	12-Aug-25	08-Sep-25	-174	WD(6d)
S20S2-9250	Install lighting and E&M (Bays 14 to 16)	18	26-Aug-25	15-Sep-25	114	WD(6d)
S20S2-9260	Install Cladding for lighting (Bays 1 to 4)	12	29-Sep-25	14-Oct-25	-176	WD(6d)
S20S2-9270	Install Cladding for lighting (Bays 5 to 13)	24	09-Sep-25	08-Oct-25	-171	WD(6d)
S20S2-9280	Install Cladding for lighting (Bays 14 to 16)	18	16-Sep-25	08-Oct-25	133	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2025-07)

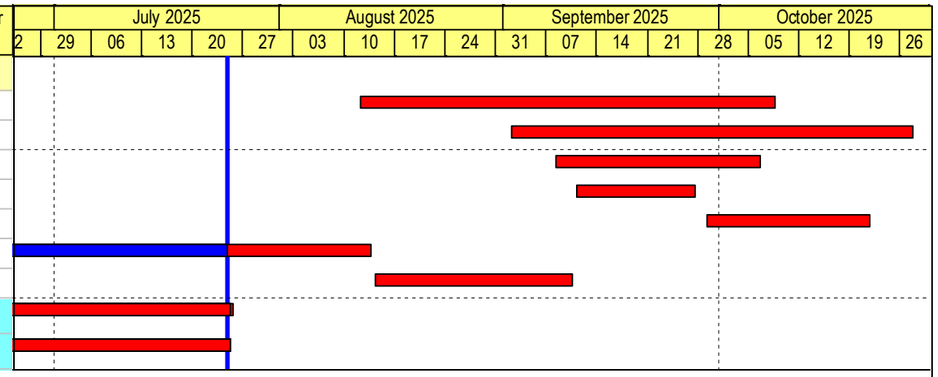
Data Date: 25-Jul-25

Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
E&M, Lift Installation and Finishing Work for Pedestrian Subway Lift Tower						
S20ELF-1050	Lighting , E&M installation	48	12-Aug-25	08-Oct-25	-169	WD(6d)
S20ELF-1060	Lift installation	46	02-Sep-25	27-Oct-25	-187	WD(6d)
S20ELF-1070	Finishing Works - Tile and Painting (Exterior Wall)	24	08-Sep-25	06-Oct-25	-170	WD(6d)
S20ELF-1090	Pillar Box - Construct & Install Fixing Inside	15	11-Sep-25	27-Sep-25	-182	WD(6d)
S20ELF-1100	Pillar Box - Telecom & CLP connection and Engerization	18	29-Sep-25	21-Oct-25	-182	WD(6d)
S20ELF-1120	Glazing and Louvre - Fabrication & Delivery	17	14-Apr-25 A	13-Aug-25	-187	WD(6d)
S20ELF-1130	Glazing and Louvre - Installation	24	14-Aug-25	10-Sep-25	-187	WD(6d)
8.0 - PMI / CE						
9.0 - Major EWN / CNE						



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

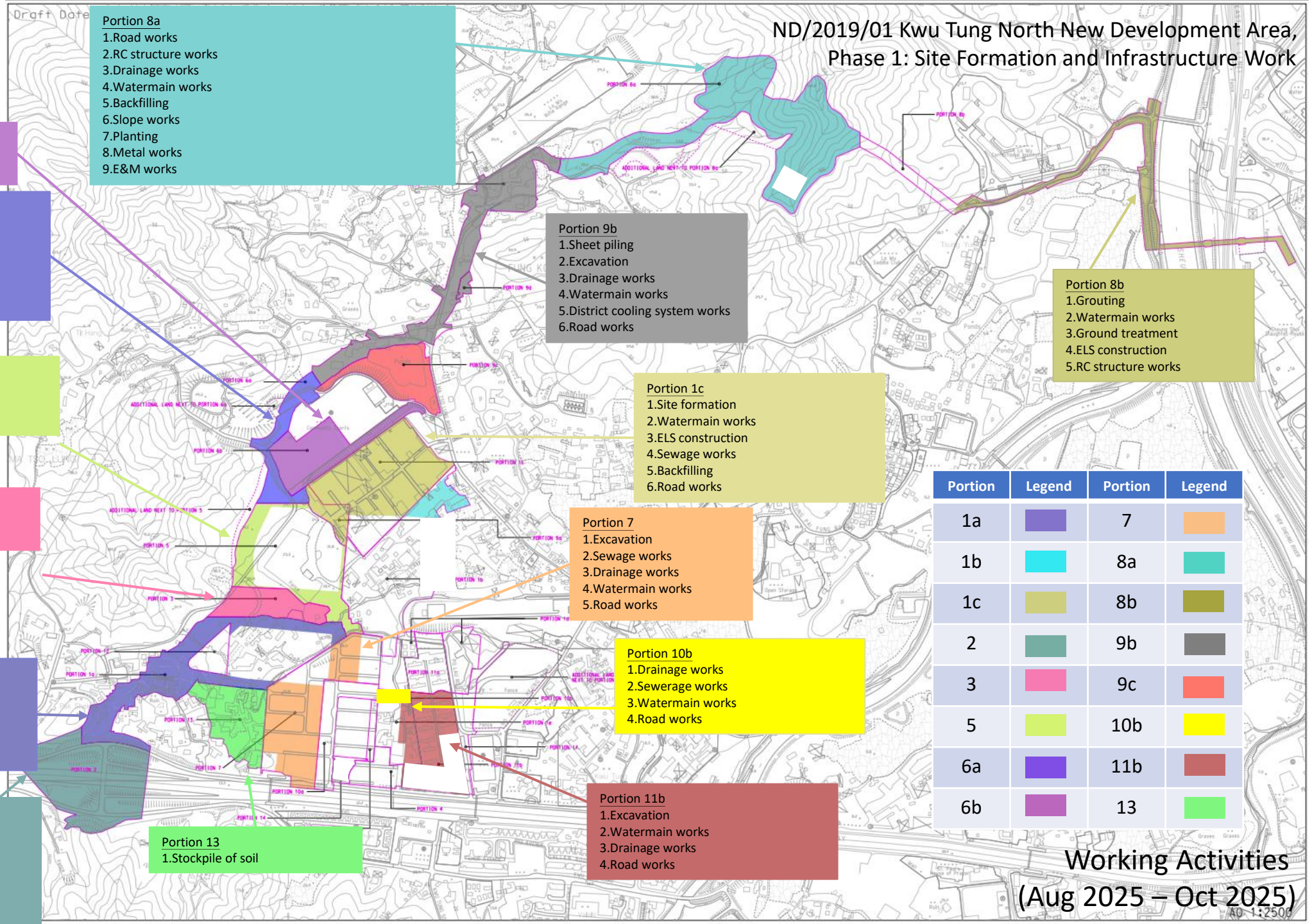
ND/2019/01 - 3 Month Rolling Programme (2025-07)

Data Date: 25-Jul-25 Run Date: 30-Jul-25

Project ID: ND201901-RP 65
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-07)			
Date	Revision	Checked	Approved
30-Jul-25	Rev. 0	SC	BY

ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Work



Portion	Legend	Portion	Legend
1a		7	
1b		8a	
1c		8b	
2		9b	
3		9c	
5		10b	
6a		11b	
6b		13	

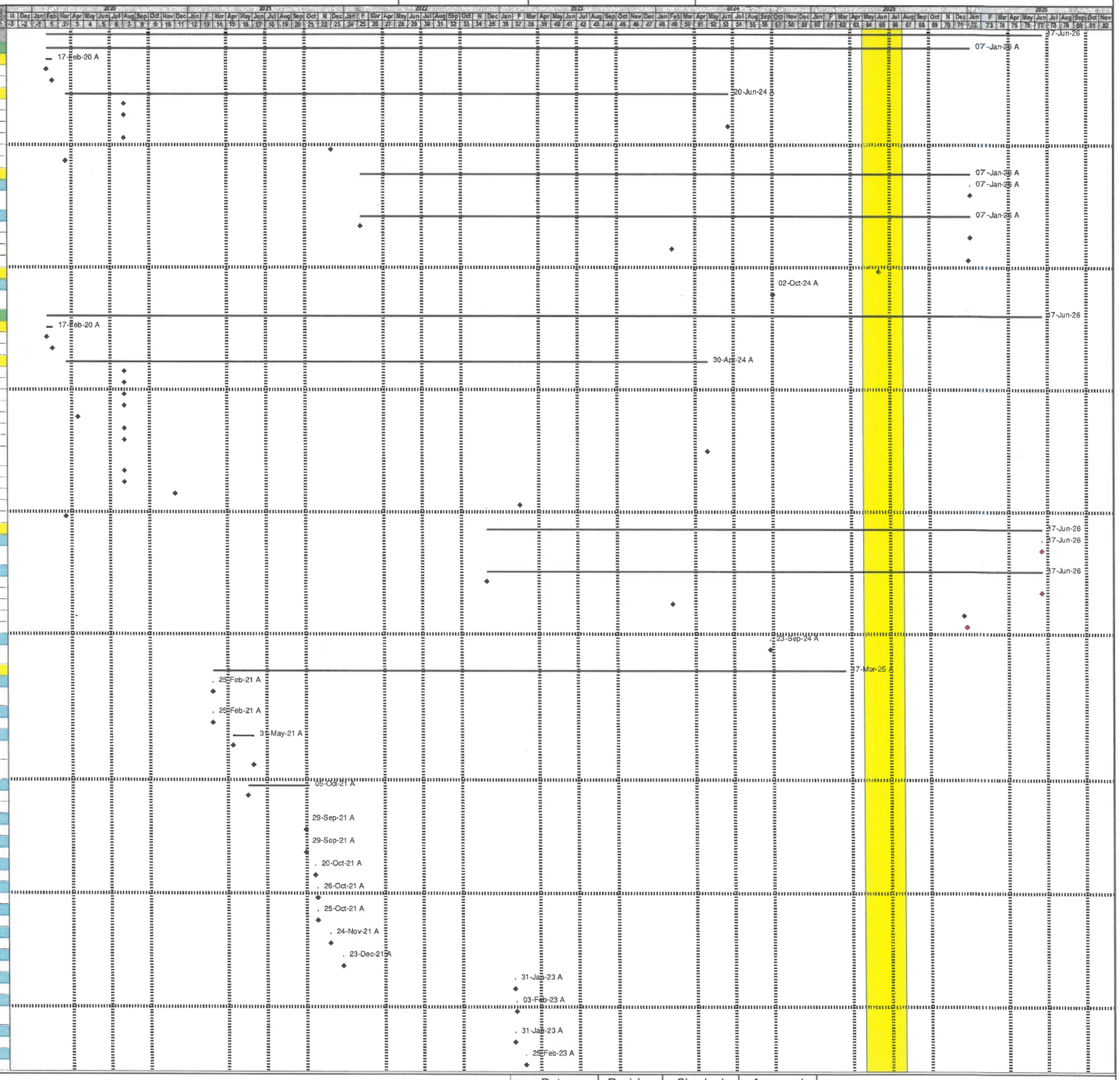
Working Activities (Aug 2025 – Oct 2025)

Construction Programme of ND/2019/02

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
Monthly Programme Update (Apr 2025)		2303	03-Feb-20 A	17-Jun-26	0		83.71%
Contract Data		1955	03-Feb-20 A	07-Jan-26 A			100%
Date for commencement		14	03-Feb-20 A	17-Feb-20 A			100%
CD-1150	Contract Date (3 Feb 2020)	0	03-Feb-20 A			0	100%
CD-1160	Starting Date (17 Feb 2020)	0	17-Feb-20 A			0	100%
Access Dates		1555	18-Mar-20 A	20-Jun-24 A			100%
CD-1170	Portion 1 & 2 (90 days after Starting Date) (17 May 20)	0	03-Aug-20 A			0	100%
CD-1180	Portion 3, 4, 5, 8 & 9 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-20 A			0	100%
CD-1190	Portion 6 (1585 d after Starting Date) (20 Jun 24) (accessed on 22 Jan 24)	0	20-Jun-24 A			0	100%
CD-1200	Portion 7, 10 & 11 (183 d after Starting Date) (18 Aug 20)	0	03-Aug-20 A			0	100%
CD-1210	WA 1 (365 d after Starting Date) (16 Feb 21)	0	30-Nov-21 A			0	100%
CD-1220	WA 2 (30 d after Starting Date) (18 Mar 20)	0	18-Mar-20 A			0	100%
Contract Completion Date		1165	06-Feb-22 A	07-Jan-26 A			100%
The Whole of the Works		0	07-Jan-26 A	07-Jan-26 A			0%
CD-1300	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0		07-Jan-26 A		0	100%
Sectional Completion		1165	06-Feb-22 A	07-Jan-26 A			100%
CD-1240	Section1 (720 days after starting date) (6 Feb 22) - Works in P1	0		06-Feb-22 A		0	100%
CD-1250	Section2 (1773 days after starting date) (25 Dec 24) - Works in P2,3,4,5,6 & 7	0		07-Jan-26 A		0	100%
CD-1260	Section3 (1110 days after starting date) (3 Mar 23) - Works P8 & P9	0		07-Feb-24 A		0	100%
CD-1270	Section4 (1773 days after starting date) (25 Dec 24) - Works in P10	0		03-Jan-26 A		0	100%
CD-1290	Section5 (1584 days after starting date) (19 Jun 24) - Works in P11	0		07-Jun-25 A		0	100%
Specified Parts of the works		0	02-Oct-24 A	02-Oct-24 A			0%
CD-1230	Portion10 (1323 days after starting date)- Works in P10 excl. switch back to permanent sewerage system	0		02-Oct-24 A		0	100%
Programme Data		2303	03-Feb-20 A	17-Jun-26	0		83.71%
Date for commencement		14	03-Feb-20 A	17-Feb-20 A			100%
PD1000	Contract Date (LOA:3 Feb 2020)	0	03-Feb-20 A			0	100%
PD1010	Starting Date (17 Feb 2020)	0	17-Feb-20 A			0	100%
Access Dates		1398	18-Mar-20 A	30-Apr-24 A			100%
PD1100	Portion 1 (90 days after Starting Date) (17 May 20)	0	03-Aug-20 A			0	100%
PD1105	Portion 2 (90 days after Starting Date) (17 May 20)	0	03-Aug-20 A			0	100%
PD1110	Portion 3 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-20 A			0	100%
PD1112	Portion 4 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-20 A			0	100%
PD1113	Portion 5 (60 d after Starting Date) (17 Apr 20)	0	16-Apr-20 A			0	100%
PD1114	Portion 8 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-20 A			0	100%
PD1115	Portion 9 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-20 A			0	100%
PD1120	Portion 6 (1585 d after Starting Date) (20 Jun 24) (CH1560-1690 accessed on 22 Jan 24) (CH1752 accessed on 30 Apr 24)	0	30-Apr-24 A			0	100%
PD1130	Portion 7 (183 d after Starting Date) (18 Aug 20)	0	03-Aug-20 A			0	100%
PD1131	Portion 10 (183d after Starting Date) (18 Aug 20)	0	03-Aug-20 A			0	100%
PD1132	Portion 11 (183d after Starting Date) (18 Aug 20)	0	30-Nov-20 A			0	100%
PD1140	WA 1 (365 d after Starting Date) (16 Feb 21)	0	16-Feb-23 A			0	100%
PD1150	WA 2 (30 d after Starting Date) (18 Mar 20)	0	18-Mar-20 A			0	100%
Planned Completion		1165	30-Nov-22 A	17-Jun-26	-90		86.49%
The Whole of the Works		0	17-Jun-26	17-Jun-26	-100		0%
PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0		17-Jun-26*	-100	0	0%
Sectional Completion		1165	30-Nov-22 A	17-Jun-26	-90		86.49%
PD1040	Section 1 - Works in P1	0		30-Nov-22 A		0	100%
PD1050	Section 2 - Works in P2,3,4,5,6 & 7	0		17-Jun-26*	-100	0	0%
PD1060	Section 3 - Works P8 & P9	0		07-Feb-24 A		0	100%
PD1070	Section 4 - Works in P10	0		20-Dec-25*	75	0	0%
PD1090	Section 5 - Works in P11	0		27-Dec-25*	-160	0	0%
Specified Parts of the works		0	23-Sep-24 A	23-Sep-24 A			0%
PD1030	Portion 10 (1323 days after starting date) - Works in P10 excl. switch back to permanent sewerage system	0		23-Sep-24 A		0	100%
Compensation Event		1300	25-Feb-21 A	17-Mar-25 A			100%
CE No. 017 Unforseen Ground Condition At Footbridge FK2		0	25-Feb-21 A	25-Feb-21 A			0%
CE0017-1	CE-017 Unforeseen Ground Condition at Footbridge FK2 [Quote sent on 997-5239 20 May 2024]	0	25-Feb-21 A				100%
CE No. 018 Unforseen Ground Condition At Visitor Center		0	25-Feb-21 A	25-Feb-21 A			0%
CE0018-1	CE-018 Unforeseen Ground Condition at visitor Centre	0	25-Feb-21 A				100%
CE No. 023 Revised Alignment for Drainage and Sewerage Pipes outside Future CLP ESS Site		54	12-Apr-21 A	31-May-21 A			100%
CE0023-1	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site - PMI 009 received	0	12-Apr-21 A				100%
CE0023-2	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site	0	31-May-21 A				100%
CE No. 026 Stage 1 Advanced Works for Extension of Cycle Track Outside Dills Corner Garden		0	17-May-21 A	05-Oct-21 A			0%
CE0026-1	CE-026 Extension of Cycle Track Outside Dills Corner Garden - PMI 010 received	0	17-May-21 A				100%
CE0026-2	CE-026 Extension of Cycle Track Outside Dills Corner Garden	0	17-May-21 A	05-Oct-21 A			100%
CE No. 067 Revised Alignment for drainage at DSD maintenance access (SMH_KT6005A to OF 6013)		0	29-Sep-21 A	29-Sep-21 A			0%
CE0067-1	PMI 049 received	0	29-Sep-21 A				100%
CE No. 068 Revised Alignment for drainage at DSD maintenance access (FMH_KT1.33A to 1.37A)		0	29-Sep-21 A	29-Sep-21 A			0%
CE0068-1	PMI 050 received	0	29-Sep-21 A				100%
CE No. 071 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.40A to 1.41A)		0	20-Oct-21 A	20-Oct-21 A			0%
CE0071-1	PMI 054 received	0	20-Oct-21 A				100%
CE No. 074 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.38A to 1.40A)		0	26-Oct-21 A	26-Oct-21 A			0%
CE0074-1	PMI 056 received	0	26-Oct-21 A				100%
CE No. 075 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.37A to 1.38A)		0	25-Oct-21 A	25-Oct-21 A			0%
CE0075-1	PMI 057 received	0	25-Oct-21 A				100%
CE No. 076 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.41A to 1.48A)		0	24-Nov-21 A	24-Nov-21 A			0%
CE0076-1	PMI 058 received	0	24-Nov-21 A				100%
CE No. 063 Construct the civil provisions of Footpath at Southern Footbridge FK2		0	23-Dec-21 A	23-Dec-21 A			0%
CE00063-1	PMI 045 received	0	23-Dec-21 A				100%
CE No. 120 DN200 Fresh Water Main from Castle Peak Road for Street Fire Hydrants and Visitor Centre		0	31-Jan-23 A	31-Jan-23 A			0%
CE00120-1	PMI 092 received | Revised Quotation submitted on 31-May-2024	0	31-Jan-23 A				100%
CE No. 119 Revised Alignment for Sewerage along Castle Peak Road (between FMH_KT1.32A and KT1.33		0	03-Feb-23 A	03-Feb-23 A			0%
CE00119-1	PMI 091 received (From existing footbridge NF158 to the road junction of Castle Peak Road and SY River)	0	03-Feb-23 A				100%
CE No. 149 Monitoring System for Pipe Jacking Works		0	31-Jan-23 A	31-Jan-23 A			0%
CE00149-1	PMI 120 received	0	31-Jan-23 A				100%
CE No. 160 Additional Modification Works to match with Ho Sheung Heung Pai Lau		0	25-Feb-23 A	25-Feb-23 A			0%
CE00160-1	PMI 129 received	0	25-Feb-23 A				100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

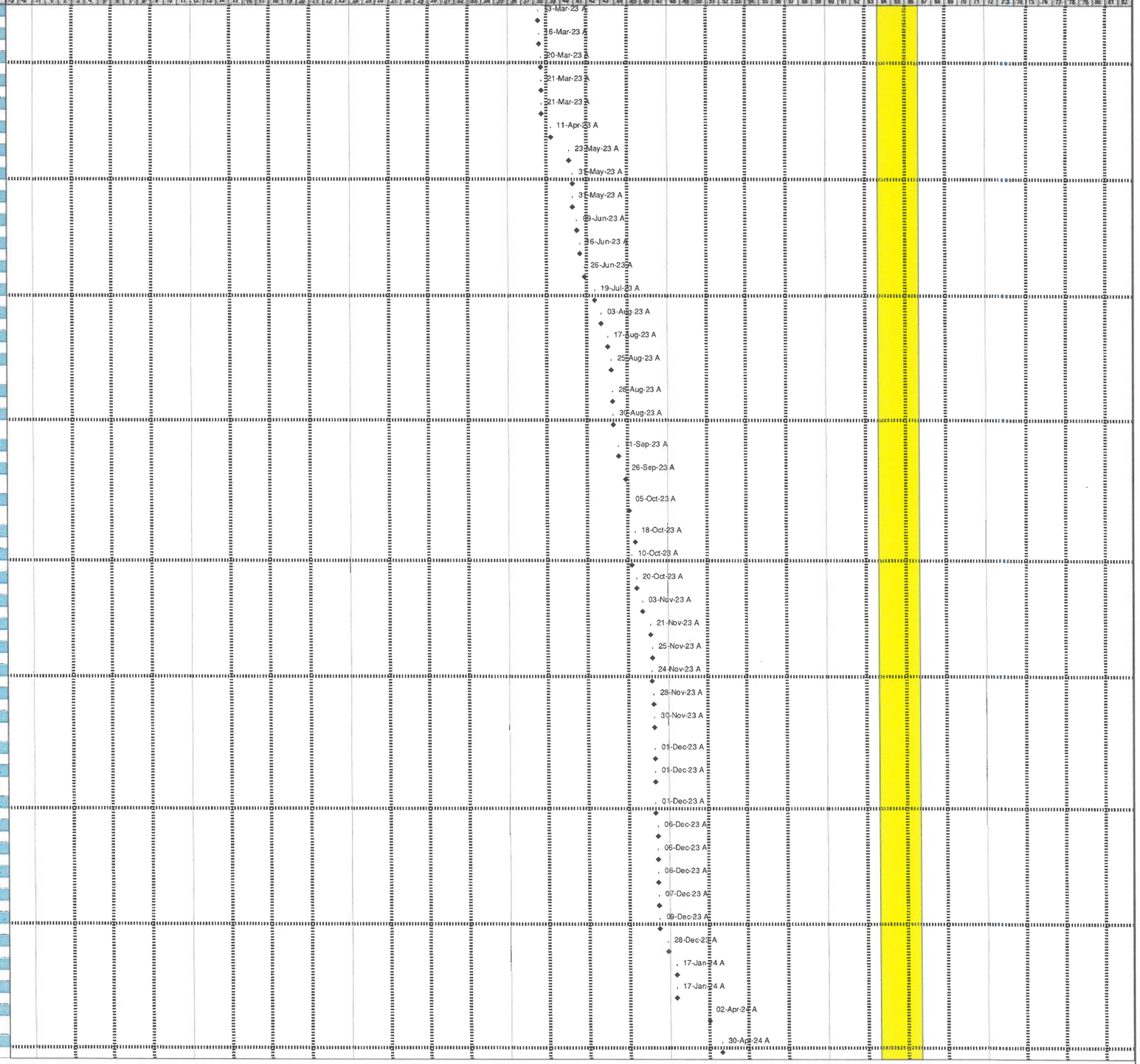
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
CE No. 134 Additional Works at Kam Tsin Road		0	13-Mar-23 A	13-Mar-23 A			0%
CE00134-1	PMI 106 received	0	13-Mar-23 A				100%
CE No. 108 Revised Alignment for NS250 Gravity Sewer & Twin DN700 Rising Main along SY River/SS River		0	16-Mar-23 A	16-Mar-23 A			0%
CE00108-1	received to Minimize Impact to Existing Cycle Track - PMI 083	0	16-Mar-23 A				100%
CE No. 159 Additional Landscaping Works along the Verge of the Upper Berms of Shek Sheung River		0	20-Mar-23 A	20-Mar-23 A			0%
CE00159-1	PMI 128 received	0	20-Mar-23 A				100%
CE No. 123 Enlargement of Chambers and Addition of a Chamber of Twin DN700 Rising Mains		0	21-Mar-23 A	21-Mar-23 A			0%
CE00123-1	PMI 095 received to Suit Operation and Maintenance Requirement of DSD	0	21-Mar-23 A				100%
CE No. 163 CLP Late Inspection of the ELS Works at Carrig eway adjacent to Sheung Yue River		0	21-Mar-23 A	21-Mar-23 A			0%
CE00163-1	PMI to be confirmed	0	21-Mar-23 A				100%
CE No. 177 Ground Investigation Works before Commence. of Pipe Jacking Works across SS River & MT		0	11-Apr-23 A	11-Apr-23 A			0%
CE00177-1	PMI 143 received	0	11-Apr-23 A				100%
CE No. 109 Additional Landscaping Works along the Verge of the Upper Berms of SY River and SS River		0	23-May-23 A	23-May-23 A			0%
CE00109-1	PMI 084 received	0	23-May-23 A				100%
CE No. 115 Revised Alignment for Sewerage along CPRoad (between FMH_KT1.28A and FMH_KT1.32A)		0	31-May-23 A	31-May-23 A			0%
CE-00115-1	PMI 089 received	0	31-May-23 A				100%
CE No. 115a Omission of PM's Instruction No. 089 Revised Alignment for Sewerage along CPR		0	31-May-23 A	31-May-23 A			0%
CE00115a-1	PMI 089a received	0	31-May-23 A				100%
CE No. 051 Revised Welding Details of H-piles at Visitor Centre and Sewerage Pumping Station		0	09-Jun-23 A	09-Jun-23 A			0%
CE00051-1	PMI 035 received	0	09-Jun-23 A				100%
CE No. 124 Revised Arrangement of Manholes for NS250 Gravity Sewers		0	16-Jun-23 A	16-Jun-23 A			0%
CE00124-1	PMI 096	0	16-Jun-23 A				100%
CE No. 181 Provision of Temporary Noise Barrier at Castle Peak Road		0	26-Jun-23 A	26-Jun-23 A			0%
CE00181-1	PMI 146	0	26-Jun-23 A				100%
CE No. 166 Add. Works for Long Valley Nature Centre to Suit Operation Requirement of AFCD and EMSD		0	19-Jul-23 A	19-Jul-23 A			0%
CE00166-1	PMI 132 received	0	19-Jul-23 A				100%
CE No. 057 Construction of Semi-circular Landing for Southern Ramp of Footbridge FK2		0	03-Aug-23 A	03-Aug-23 A			0%
CE00057-1	PMI 039 received	0	03-Aug-23 A				100%
CE No. 167 Installation of Smart Technology for Long Valley Nature Centre as requested by AFCD		0	17-Aug-23 A	17-Aug-23 A			0%
CE00167-1	PMI 133 received	0	17-Aug-23 A				100%
CE No. 203 Revised Layout of Village Reside Area		0	25-Aug-23 A	25-Aug-23 A			0%
PMI00160-1	CE-203 received - Additional Infrastructure Works for VRA near Ho Sheung Heung as requested by LandsD (Granted 30/5/024)	0	25-Aug-23 A				100%
CE No. 182 Additional Items for Kwu Tung North Sewage Pumping Station as Requested by DSD		0	28-Aug-23 A	28-Aug-23 A			0%
CE00182-1	PMI 147 received	0	28-Aug-23 A				100%
CE No. 193 Provision of Metal Seated Gate Valve for DN200 Water Supply Pipeworks		0	30-Aug-23 A	30-Aug-23 A			0%
CE00193-1	PMI No. 156 received on 20 August 2023 (997-05030) | Quote accepted on 16 July 2024 [IN-06473]	0	30-Aug-23 A				100%
CE No. 201 Revised Construction Details for Slope Reinstatement at Footbridge FK2		0	11-Sep-23 A	11-Sep-23 A			0%
CE00201-1	PMI 166 received	0	11-Sep-23 A				100%
CE No. 156 Installation of 2 Smart-Ready Lampposts and Construction of Associated Civil Provision		0	26-Sep-23 A	26-Sep-23 A			0%
CE00156-1	Works at Northern Footway Ramp of Footbridge FK2 - PMI 126 received, Quote sent on 17 May 2024	0	26-Sep-23 A				100%
CE No. 200 Realignment of Twin DN700 Sewerage Rising Mains from CHC 0.000 to CHC 87.024 and		0	05-Oct-23 A	05-Oct-23 A			0%
CE-00200-1	Trenchless Works for the Chainage from CHC 10.907 to CHC 69.412 - PMI 165 received	0	05-Oct-23 A				100%
CE No. 191 Mitigation Works for Trees infested by Phauda Flammans at Portion WA2		0	18-Oct-23 A	18-Oct-23 A			0%
CE00191-1	PMI-154 received	0	18-Oct-23 A				100%
CE No. 196 Testing of DN1500 and DN2100 Concrete Jacking Pipes		0	10-Oct-23 A	10-Oct-23 A			0%
CE00196-1	PMI-159 received	0	10-Oct-23 A				100%
CE No. 194 Testing of DN1050, DN1200 and DN2100 Concrete Pipes		0	20-Oct-23 A	20-Oct-23 A			0%
CE00194-1	PMI-157 received	0	20-Oct-23 A				100%
CE No. 202 Revised Alignment for Sewerage along Castle Peak Road (betwn. manholes KT1.26A& KT1.3(		0	03-Nov-23 A	03-Nov-23 A			0%
CE00202-1	PMI 167 received	0	03-Nov-23 A				100%
CE No. 214 Record of Checking and Inspection for Working near Underground Utilities		0	21-Nov-23 A	21-Nov-23 A			0%
CE00214-1	PM acceptance no. 161 on 21 Nov 2023 (letter ref. 05394)	0	21-Nov-23 A				100%
CE No. 215 Delay and Disruption of Works due to Inclement Weather for the Month of October 2023		0	25-Nov-23 A	25-Nov-23 A			0%
CE00215-1	Quotation Submitted on 8 Jan 2024 under letter 4479 pending PM assessment	0		25-Nov-23 A			100%
CE No. 216 Employment of Full-time QS Clerk for Date Preparation and Entry for DRoW System		0	24-Nov-23 A	24-Nov-23 A			0%
CE00216-1	PM acceptance no. 165 on 11 Dec 2023 (letter ref. 05492)	0	24-Nov-23 A				100%
CE No. 218 Wireless Smart Safety Helmet Cameras (Batch 2)		0	28-Nov-23 A	28-Nov-23 A			0%
CE00218-1	PM acceptance no. 167on 20 Dec 2023 (letter ref. 05539)	0		28-Nov-23 A			100%
CE No. 165 Delay & Disruption of Works due to Temporary Suspension of Soil Disposal Works		0	30-Nov-23 A	30-Nov-23 A			0%
CE00165-1	for Facilitating the Celebration Event of Hung Shing Festival at Hung Shing Temple	0	30-Nov-23 A				100%
CE No. 164 Delay & Disruption of Works due to Temporary Suspension of Soil Disposal Works		0	01-Dec-23 A	01-Dec-23 A			0%
CE00164-1	for Facilitating the Open Ceremony of Ho Sheung Heung Pai Lau	0	01-Dec-23 A				100%
CE No. 213 Provision of Temp. Footpath at the Junction of Castle Peak Road/Pak Sau Road in Portion 1		0	01-Dec-23 A	01-Dec-23 A			0%
CE00213-1	to facilitate the Road User after Opening of Kwu Tung North Multi-welfare Services Complex - PMI 178 received	0	01-Dec-23 A				100%
CE No. 070 Revised R.C. Details of Pile Caps and Wall Thickness at B/F of Visitor Centre		0	01-Dec-23 A	01-Dec-23 A			0%
CE-00070-1	PMI 053 received	0	01-Dec-23 A				100%
CE No.175 Increase Spacing Betwn. DN700 DI Pipes of Rising Main by Trenchless Method across SY Rive		0	06-Dec-23 A	06-Dec-23 A			0%
CE00175-1	PMI 141 received	0	06-Dec-23 A				100%
CE No. 186 Additional Safety Measures to Facilitate the Diversion of Temp. Cycle Track and Footpath		0	06-Dec-23 A	06-Dec-23 A			0%
CE00186-1	PMI 151 received	0	06-Dec-23 A				100%
CE No. 211 Submission of TPRP and Tree Felling Works in Drills Corner Garden		0	06-Dec-23 A	06-Dec-23 A			0%
CE00211-1	PMI 174 received	0	06-Dec-23 A				100%
CE No. 220 Provision of 360 Degrees Monitoring System for Moving Plant		0	07-Dec-23 A	07-Dec-23 A			0%
CE00220-1	PM acceptance no. 170 on 27 Jan 2024 (letter ref. 05807)	0		07-Dec-23 A			100%
CE No. 091 Revised Alignment for Drainage along Castle Peak Road (between Manhole KT6002 and KT60		0	09-Dec-23 A	09-Dec-23 A			0%
CE00091-1	PMI No. 069 received	0	09-Dec-23 A				100%
CE No. 221 Testing of DN375 Precast Concrete Pipes		0	28-Dec-23 A	28-Dec-23 A			0%
CE00221-1	PM acceptance no. 169on 17 Jan 2024 (letter ref. 05741)	0	28-Dec-23 A				100%
CE No. 174 Increase of Pipe Spacing Between DN700 DI Pipes Within Pipe Sleeve For Rising Main		0	17-Jan-24 A	17-Jan-24 A			0%
CE00174-1	Pipe Jacking Works Across Shek Sheung River (PMI No. 140)	0	17-Jan-24 A				100%
CE No. 118 Revised Alignment for Drainage along Castle Peak Road (between Manhole KT6004 and KT60		0	17-Jan-24 A	17-Jan-24 A			0%
CE00118-1	PMI No. 090 received	0	17-Jan-24 A				100%
CE No. 235 Delay and Disruption of Work due to Temporary Suspension of Soil Disposal Works		0	02-Apr-24 A	02-Apr-24 A			0%
CE00235-1	for Facilitating the Celebration Event of Hung Shing Festival 2024 | Quotation Submitted on 31 May 2024 (1 Day EOT)	0	02-Apr-24 A				100%
CE No. 233 Provision of AI Cameras and Confined Space Monitoring for Pipe Jacking Works at CPRoad		0	30-Apr-24 A	30-Apr-24 A			0%
CE00233-1	PMI No. 198 received | Quotation submitted on 28 May 2024 (997-5304)	0	30-Apr-24 A				100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

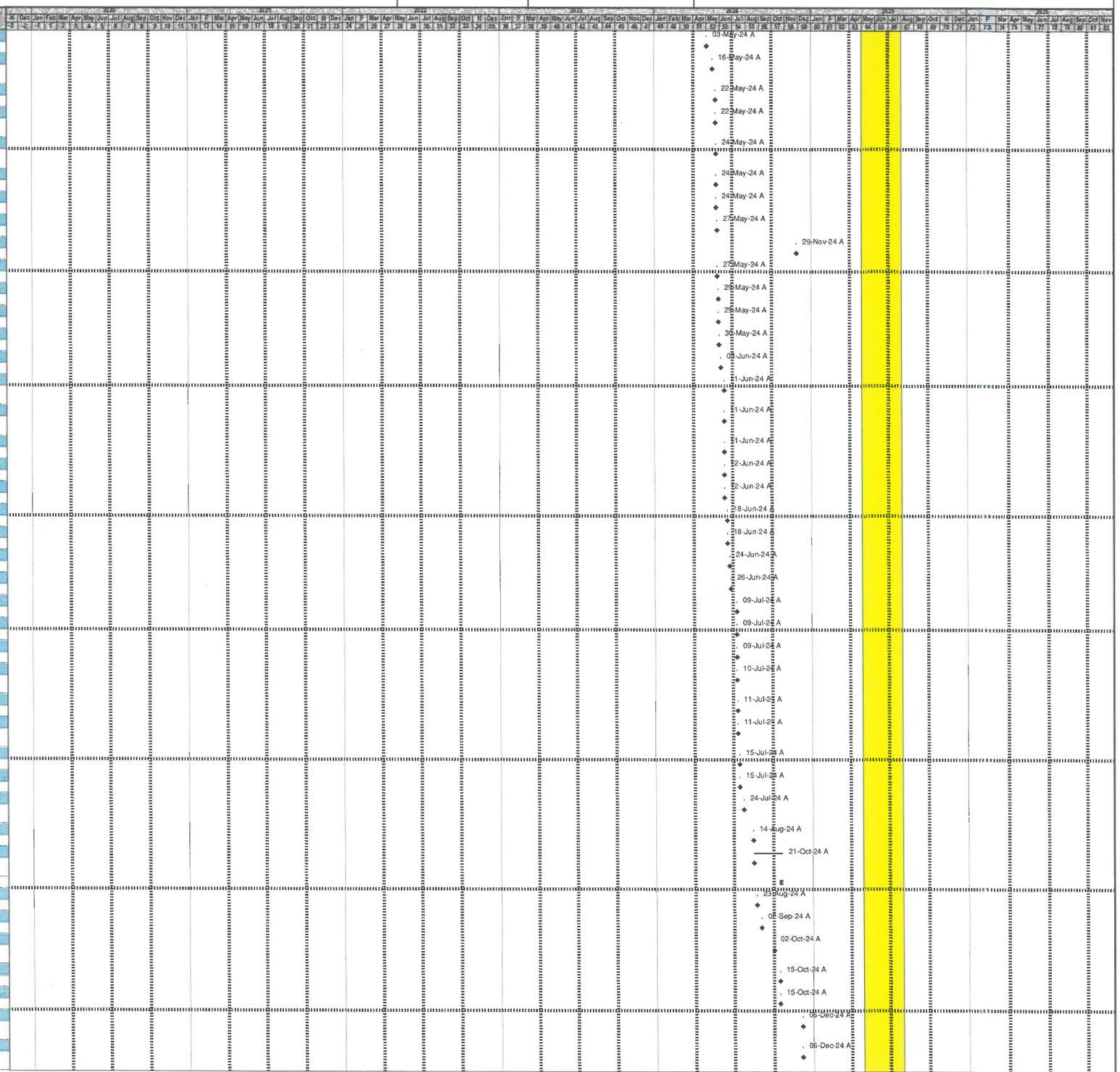
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
CE No. 238 Provision of AI Cameras and Confined Space Monitoring for Pipe Jacking Works near HSHPL		0	03-May-24 A	03-May-24 A			0%
CE00238-1	PMI No. 201 issued on 3-May-2024	0	03-May-24 A				100%
CE No. 219 Adjustments to Landscape Works in LVNC to Suit the Requirements of AFCD		0	16-May-24 A	16-May-24 A			0%
CE00219-1	PMI 184 received on 28 Nov 2023 & Quotation Submitted on 16 May 2024 (997-5233)	0	16-May-24 A				100%
CE No.199 Provision of Wireless Internet Service for Smart Safety Items of Pipe Jacking works at CPR		0	22-May-24 A	22-May-24 A			0%
CE00199-1	Revised Quotation submitted on 22 May 2024	0	22-May-24 A				100%
CE No. 247 Watermain Connection with Revised Align. & Provision of Add. Gate Valves for Watersupply		0	22-May-24 A	22-May-24 A			0%
CE00247-1	to LVNC as Requested by WSD | PMI No. 214 received | Quote accepted 15 July 2024 [IN-06474]	0	22-May-24 A				100%
CE No. 244 Revised Alignment and Connection for DN200 Watermain to Existing DN150 Watermain		0	24-May-24 A	24-May-24 A			0%
CE00244-1	at Castle Peak Road (Kwu Tung) as Requested by WSD - PMI 211 received | Quote accepted 15-Jul2024 [IN-06475]	0	24-May-24 A				100%
CE No. 245 Revised Railing System for G/F and R/F for LVNCas requested by AFCD		0	24-May-24 A	24-May-24 A			0%
CE00245-1	PMI No. 212 issued on 24-May-2024	0	24-May-24 A				100%
CE No. 239 Revised Layout of Roadworks and Installation of Additional Green Railing (Portion 8)		0	24-May-24 A	24-May-24 A			0%
CE00239-1	PMI No. 207 issued on 24-May-2024	0	24-May-24 A				100%
CE No. 205 Delay & Disruption of works due to Tropical Cyclone Warning Signals on 1 to 2 Sep 2023		0	27-May-24 A	27-May-24 A			0%
CE00205-1	Cacelled	0	27-May-24 A				100%
CE No. 206 Delay & Disruption of works due to Red and Black Rainstorm Warning Signals on 7-8 Sep 202		0	29-Nov-24 A	29-Nov-24 A			0%
CE00206-1	Quotation Acceptance No. 211 received on 16-Dec-2024, 1 day EOT [IN_07092]	0	29-Nov-24 A				100%
CE No. 212 Delay & Disruption of works due to Tropical Cyclone Warning Signals on 8 to 9 Oct 2023		0	27-May-24 A	27-May-24 A			0%
CE00212-1	Cancelled	0	27-May-24 A				100%
CE No. 248 Carrying out Pruning of Leucaena Leucocephela along Cycle Track of Portion 2		0	29-May-24 A	29-May-24 A			0%
CE00248-1	PMI No. 215 issued on 29 May 2024 | Quote sent on 10 July 2024 (OUT-5460)	0	29-May-24 A				100%
CE No. 236 Carry out Tree Risk Assessment in accordance with TRAM Arrangement 10th Edition Mar2023		0	29-May-24 A	29-May-24 A			0%
CE00236-1	PMI No. 199 issued on 29-May-2024	0	29-May-24 A				100%
CE No. 195 Construction of Add. Wall, Hose Reel Cabinet and CCTV Installation at MDF Room of LVNC		0	30-May-24 A	30-May-24 A			0%
CE00195-1	PMI 158 received | Quotation Acceptance No. 183 on 30 May 2024 (997-06268)	0	30-May-24 A				100%
CE No. 243 Demolition of Existing Planters along Footpath of SYR and Widening of Footpath for Public		0	03-Jun-24 A	03-Jun-24 A			0%
CE00243-1	PMI-210 issued on 3 Jun 2024	0	03-Jun-24 A				100%
CE No. 240 Add. Civil Provision Works for Footbridge FK2 incl LED Lighting & Bollards req. by AFCD		0	11-Jun-24 A	11-Jun-24 A			0%
CE00240-0	Access gate requested by DSD and Bearing Maintenance Access by HYD - PMI No. 205 issued on 11 June 2024	0	11-Jun-24 A				100%
CE No. 252 Construction of Concrete Plug for opening at KTN SPS		0	11-Jun-24 A	11-Jun-24 A			0%
CE00252-1	PMI No. 217, CE No. 252 issued on 11 June 2024 | Quote accepted 12 July 2024 (IN-06454)	0	11-Jun-24 A				100%
CE No. 251 Revised Construction Details for Drainage and Roadworks at Southern Footbridge FK2		0	11-Jun-24 A	11-Jun-24 A			0%
CE00251-1	PMI No. 206 issued on 11 June 2024	0	11-Jun-24 A				100%
CE No. 268 Revised MVAC Installation at 1/F of LVNC		0	12-Jun-24 A	12-Jun-24 A			0%
CE00268-1	PMI No. 238 issued on 12 June 2024	0	12-Jun-24 A				100%
CE No. 257 Revised Systems for CCTV, Electrical, ELV, Fire Services & Drainage for LVNC		0	12-Jun-24 A	12-Jun-24 A			0%
CE00257-1	PMI No. 227 issued on 12 June 2024 | Quotation sent on 21 June 2024	0	12-Jun-24 A				100%
CE No. 258 Additional Provision of Signage, Braille and Tactile Plan, Gym facilities at G/F LVNC		0	18-Jun-24 A	18-Jun-24 A			0%
CE00258-1	PMI No. 228 issued on 11 June 2024 | Quotation sent on 5 Jul 2024 (OUT-5451)	0	18-Jun-24 A				100%
CE No. 256 Carry out Remedial Action under 2023/24 TRAM Exercise		0	18-Jun-24 A	18-Jun-24 A			0%
CE00256-1	PMI No. 224 issued on 18 June 2024 | (IN-06356)	0	18-Jun-24 A				100%
CE No. 261 Post Inclement Weather Inspection after the Red Rainstorm Signal dated 14 June 2024		0	24-Jun-24 A	24-Jun-24 A			0%
CE00261-1	PMI No. 231 - issued on 24 June 2024 (IN-06353)	0	24-Jun-24 A				100%
CE No. 260 Post Inclement Weather Inspection after the Red Rainstorm Signal dated 21 May 2024		0	26-Jun-24 A	25-Jun-24 A			0%
CE00260-1	PMI No. 230 issued on 26 June 2024 | (IN-06346)	0	26-Jun-24 A				100%
CE No. 263 Delay & Disruption of Works due to Inclement Weather for the Month of May 2024		0	09-Jul-24 A	09-Jul-24 A			0%
CE00263-1	CE No. 263 issued on 9 July 2024 (IN-06366)	0	09-Jul-24 A				100%
CE No. 264 Delay & Disruption of Works due to Red Rainstorm Warning Signal on 21 May 2024		0	09-Jul-24 A	09-Jul-24 A			0%
CE00264-1	CE No. 264 issued on 9 July 2024 (IN-06368)	0	09-Jul-24 A				100%
CE No. 265 Delay & Disruption of Works due to Red Rainstorm Warning Signal on 4 May 2024		0	09-Jul-24 A	09-Jul-24 A			0%
CE00265-1	CE No. 265 issued on 9 July 2024 (IN-06370)	0	09-Jul-24 A				100%
CE No. 266 Additional Preventive Measures for Adult Mosquito Control - Fogging for FEHD compliance		0	10-Jul-24 A	10-Jul-24 A			0%
CE00266-1	PMI No. 234 / CE No. 266 issued on 29 June 2024 (IN-06386) - New FEHD requirements	0	10-Jul-24 A				100%
CE No. 226 Additional Soiling, Planting & Asso. Reinstatement Works (Portion 5 Shek Sheung River)		0	11-Jul-24 A	11-Jul-24 A			0%
CE00226-1	PMI No. 192 issued on 11 July 2024 (IN-06456)	0	11-Jul-24 A				100%
CE No. 254 Additional Landscape Works at Southern Footbridge FK2 as requested by AFCD		0	11-Jul-24 A	11-Jul-24 A			0%
CE00254-1	PMI No. 219 / CE No. 254 issued on 11 July 2024 (IN-06443) - Received on 23 July 2024	0	11-Jul-24 A				100%
CE No. 270 Delay & Disruption to works due to Red Rainstorm Warning Signal on 14 June 2024		0	15-Jul-24 A	15-Jul-24 A			0%
CE00270-1	CE No. 270 issued on 15 July 2024 (IN-06440) (Received on 23 July 2024)	0	15-Jul-24 A				100%
CE No. 269 Delay & Disruption of Works due to Inclement Weather in June 2024		0	15-Jul-24 A	15-Jul-24 A			0%
CE00269-1	Issued on 15 July 2024 (IN-06470), Quote submission under preparation	0	15-Jul-24 A				100%
CE No. 255 Additional Provision of GMS Matching Cover at G/F of LVNC		0	24-Jul-24 A	24-Jul-24 A			0%
CE00255-1	PMI No. 220 / CE No. 255 issued on 16 July 2024 (IN-06447) (Received on 24 July 2024)	0	24-Jul-24 A				100%
CE No. 271 Unforeseen Underground Obstacles at Rising Main CHB1740		0	14-Aug-24 A	14-Aug-24 A			0%
CE00271-1	CE issued on 14-Aug-2024 (IN-06630) | Quote under preparation	0	14-Aug-24 A				100%
CE No. 277 Add. Works for Pipe Jacking across MTRC including Pre-grouting Works, Hori. Ground Treat		19	16-Aug-24 A	21-Oct-24 A			100%
CE00277-1	and asso. monitoring works - issued on 16-Aug-2024 (IN06633), received 31-Aug-2024	0	16-Aug-24 A				100%
CE00277-11	Justification for extended preliminary cost submitted on 15-Oct-2024 (OUT5852)	1	15-Oct-24 A	21-Oct-24 A			100%
CE No.275 Delay & Disruption of Works due to Inclement Weather in July 2024		0	23-Aug-24 A	23-Aug-24 A			0%
CE00275-1	CE No. 275 issued on 9 Aug 2024 (IN-06610) (Received on 23 Aug 2024)	0	23-Aug-24 A				100%
NCE No. 128 Delay & Disruption of Works due to Inclement Weather in Aug 2024		0	02-Sep-24 A	02-Sep-24 A			0%
NCE00128-1	Notification sent on 2-Sep-2024 (OUT-5677) - 7 days [6, 12, 13, 15, 17, 19, 20]	0	02-Sep-24 A				100%
CE No. 253 Trial Pits for WSD's Inspection of DN200 Watermain Connection Point and Demolition of		0	02-Oct-24 A	02-Oct-24 A			0%
CE00253-1	Existing DAV Chamber to Facilitate DN200 Watermain Connection by WSD from CPR to LVNC (PMI-218)	0	02-Oct-24 A				100%
CE No. 285 Removal of Undesirable Species Leucocephala		0	15-Oct-24 A	15-Oct-24 A			0%
CE00285-1	PMI No. 255 issued on 15-Oct-2024 (IN-06871, IN-06872)	0	15-Oct-24 A				100%
CE No. 101 COVID-19 EOT for Government Works Contract and Building Covenant Period Under Land le		0	15-Oct-24 A	15-Oct-24 A			0%
CE-101-01	Granted by the Project Manager 150.5 Days on 15-Oct-2024 (IN_06862)	0	15-Oct-24 A				100%
CE No. 299 Delay & Disruption of Works due to Inclement Weather in November 2024		0	06-Dec-24 A	06-Dec-24 A			0%
CE-299-01	Issued by the PM on 6-Dec-2024 [IN_07095], Quotation submission under development	0	06-Dec-24 A				100%
CE No. 300 Delay & Disruption of Works due to Tropical Cyclone Warning Signals 13-14 November 2024		0	06-Dec-24 A	06-Dec-24 A			0%
CE-300-01	Issued by the PM on 6-Dec-2024 [IN_07093], Quotation submission under development	0	06-Dec-24 A				100%



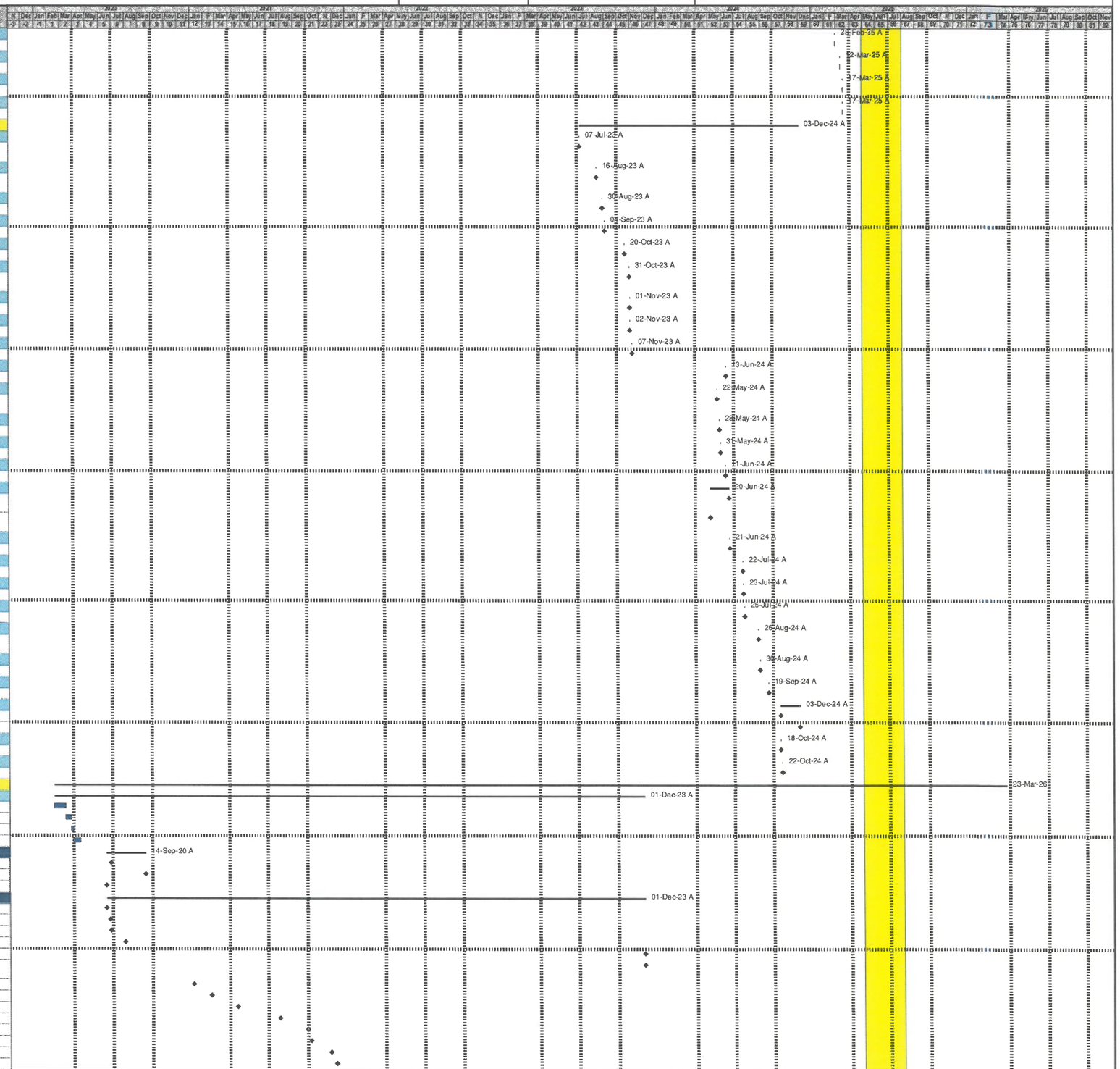
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
CE No. 308 Employment of Full-time Quantity Surveying Clerk for Data Preparation and Entry for dRoW		0	28-Feb-25 A	28-Feb-25 A			0%
CE-308-01	Issued by the PM on 28-Feb-2025 (IN_07332)	0	28-Feb-25 A	28-Feb-25 A			100%
CE No. 307 Carrying out remedial actions recommended in Form 1 Assessment under Tree Risk Assesn		0	12-Mar-25 A	12-Mar-25 A			0%
CE-307-01	Issued by the PM on 12-Mar-2025	0	12-Mar-25 A	12-Mar-25 A			100%
CE No. 276 Revised cable duct and draw pit arrangement and revised electrical substation arrangement		0	17-Mar-25 A	17-Mar-25 A			0%
CE-276-01	Issued by the PM on 17-Mar-2025	0	17-Mar-25 A	17-Mar-25 A			100%
CE No. 311 Delay and Disruption of Works due to Inclement Weather for the Month of February 2025		0	17-Mar-25 A	17-Mar-25 A			0%
CE-311-01	Issued by the PM on 17-Mar-2025	0	17-Mar-25 A	17-Mar-25 A			100%
Project Manager Instruction		512	07-Jul-23 A	03-Dec-24 A			100%
PMI No. 149 Construction of an Add. Jacking Pit (to be designed by the Contractor) near Dongjiang		0	07-Jul-23 A	07-Jul-23 A			0%
PMI00149-1	to Facilitate Trenchless Works across underneath SS River and MTRC East Rail Line - PMI 149 received	0	07-Jul-23 A				100%
PMI No. 155 Realignment of Twin DN700 Sewage Rising Mains from CHC 0.000 to CHC 87.024 and		0	16-Aug-23 A	16-Aug-23 A			0%
PMI00155-1	Trenchless Works for the Chainage from CHC 10.907 to CHC 69.412 - PMI 155 received	0	16-Aug-23 A				100%
PMI No. 161 Revised Alignment for Sewerage along Castle Peak Road (betwn. manholes KT1.26A & KT1.3		0	30-Aug-23 A	30-Aug-23 A			0%
PMI00161-1	PMI-161 received	0	30-Aug-23 A				100%
PMI No. 162 Revised Construction Details for Slope Reinstatement at Footbridge FK2		0	04-Sep-23 A	04-Sep-23 A			0%
PMI00162-1	PMI-162 received	0	04-Sep-23 A				100%
PMI No. 173 Replacement of Type 2 Railing by Wooden Metal Wire Railing along exist. DSD Main. Access		0	20-Oct-23 A	20-Oct-23 A			0%
CE00173-1	of Sheung Yue River and Shek Sheung River - PMI 173 received	0	20-Oct-23 A				100%
PMI No. 176 Replacement of Type 2 Railing by Wooden Metal Wire Railing and Replacement of Grasscrete		0	31-Oct-23 A	31-Oct-23 A			0%
PMI00176-1	Pavement by Concrete Pavement along Sheung Yue River and Shek Sheung River (outside boundary of ND/2019/02)	0	31-Oct-23 A				100%
PMI No. 175 Design and Construction of DSD Viewing Platform with Thematic Planting at SY River		0	01-Nov-23 A	01-Nov-23 A			0%
PMI00175-1	PMI-175 received	0	01-Nov-23 A				100%
PMI No. 177 Outfall Beautification at Sheung Yue River (6013, 5100A, 5101, 5103, 5104, 5105)		0	02-Nov-23 A	02-Nov-23 A			0%
PMI00177-1	PMI-177 received	0	02-Nov-23 A				100%
PMI No. 179 Design of Artificial Rock Works for Outfall (6013, 5100A, 5101, 5103, 5104, 5105)		0	07-Nov-23 A	07-Nov-23 A			0%
PMI00179-1	PMI-179 received	0	07-Nov-23 A				100%
PMI No. 202/196 Additional Dangerous Goods Storage Room for KTN Sewage Pumping Station		0	13-Jun-24 A	13-Jun-24 A			0%
PMI00202-5362	PMI 196 assigned and CE 231, Quotation submitted (13 June 2024)	0	13-Jun-24 A				100%
PMI No. 204 Railing System at Roof and Ground Floor for Long Valley Nature Centre (LVNC)		0	22-May-24 A	22-May-24 A			0%
PMI00204-1	Submitted Quotation for PMI 204 on 22 May 2024 (997-5277) | 27 May 2024 (997-5295)	0	22-May-24 A				100%
PMI No. 216 Revised Landscaping works and Add. Planting along footpath near Southern Footbridge		0	28-May-24 A	28-May-24 A			0%
PMI00216-1	FK2 as requested by AFCD	0	28-May-24 A				100%
PMI No. 221 Revised Layout of Boundary Fence Wall and Roof Canopy of KTN SPS to Suit DSD Mainte. R		0	31-May-24 A	31-May-24 A			0%
PMI00221-1	PMI No. 221 issued on 31 May 2024 (CE No. TBC)	0	31-May-24 A				100%
Revised Layout of Drainage and Outfall along Sheung Yue River near Outfall 5105		0	11-Jun-24 A	11-Jun-24 A			0%
CE00TBC-1	PM notified on 11 June 2024 (PMI No. TBC)	0	11-Jun-24 A				100%
PMI No. 203 Add. Provision of Standby Pipes Conn. to Sump Pump, Revised Arrangement of Carbon Vess		117	06-May-24 A	20-Jun-24 A			100%
PMI00203-1	for Deodorisation System and associated E&M installations of KTNSPS as requested by DSD	0	20-Jun-24 A				100%
PMI00203-11	PMI No. 203 dated 6-May-2024 Revised E&M Ins. and Landscaping Works for KTN SPS request by DSD (/M15/220/H05433)	0	06-May-24 A				100%
PMI No. 229 Revised Construction of Window, Door, Louvre, Access Panels, and Misc. works for LVNC		0	21-Jun-24 A	21-Jun-24 A			0%
PMI00229-1	PMI No. 229 issued 21 June 2024 | Received 28 June 2024 (IN-06339)	0	21-Jun-24 A				100%
PMI No. 239 Proposed Green Roof, Automatic Irrigation System at SPS		0	22-Jul-24 A	22-Jul-24 A			0%
PMI00239-1	PMI No. 239 issued 22 July 2024 (IN-06479) | Quote sent 3-Sep-2024 OUT-5685	0	22-Jul-24 A				100%
PMI No. 236 Revised Cable Duct & Draw Pit and Revised Electrical Substation arrangement for VRA		0	23-Jul-24 A	23-Jul-24 A			0%
PMI00236-1	PMI No. 236 issued 23 July 2024 (IN-06496) | Quote under preparation	0	23-Jul-24 A				100%
PMI No. 240 Addl. Slip Resistance for Epoxy Floor Painting at Plant Rm. & Security Control Rm. LVNC		0	26-Jul-24 A	26-Jul-24 A			0%
PMI00240-1	PMI No. 240 issued 26 July 2024 (IN-06495) | Quote under preparation	0	26-Jul-24 A				100%
PMI No. 244 Addl. Pipe Cleansing & CCTV for drainage pipes near RM CHB1740, Outfall 5105, and		0	26-Aug-24 A	26-Aug-24 A			0%
PMI00244-1	existing outfalls SNF1000460 and SNF1000461 - CE No. 273 (issued 19-Aug-2024) [IN-06617]	0	26-Aug-24 A				100%
PMI No. 243 Addl. Drainage Provision for G/F Maintenance Corridor in LVNC		0	30-Aug-24 A	30-Aug-24 A			0%
PMI00243-1	Quotation submitted on 30-Aug-2024 (OUT-5669) for PM acceptance	0	30-Aug-24 A				100%
PMI No. 253 Additional E&M Provision in LVNC		0	19-Sep-24 A	19-Sep-24 A			0%
PMI-00253-1	Issued by the PM on 19-Sep-2024 (IN-06809)	0	19-Sep-24 A				100%
PMI No. 258/266 Barrier Free Provision, Bird Collision Deterrent Markers & Decorative Photo Montage		40	18-Oct-24 A	03-Dec-24 A			100%
PMI-00258-1	Film Sticker at LVNC - Issued by PM on 18-Oct-2024 (IN-06861)	0	18-Oct-24 A				100%
PMI-00266-1	PM issued CE No. 294 on 07087 on 3-Dec-2024 (IN-07087)	0	03-Dec-24 A				100%
PMI No. 257 Additional Top Painting Finish for ST-01 in LVNC		0	18-Oct-24 A	18-Oct-24 A			0%
PMI00257-1	Issued by the PM on 18-Oct-2024 (IN-06858), received on 23-Oct-2024	0	18-Oct-24 A				100%
PMI No. 256 Additional ABWF Provision in LVNC		0	22-Oct-24 A	22-Oct-24 A			0%
PMI00256-1	Issued by the PM on 22-Oct-2024 (IN-06865)	0	22-Oct-24 A				100%
Preliminaries		2083	15-Feb-20 A	23-Mar-26	76		85.65%
Subletting		1043	15-Feb-20 A	01-Dec-23 A			100%
SC-0000	Preparation and submission of Sub-letting procedure (ACC Clause C9(6))	25	15-Feb-20 A	13-Mar-20 A	0		100%
SC-0010	Review of Sub-letting procedure by PM	12	13-Mar-20 A	26-Mar-20 A	0		100%
SC-0020	Resubmission of Sub-Letting Procedure	6	26-Mar-20 A	01-Apr-20 A	0		100%
SC-0030	Acceptance of Sub-Letting Procedure	12	01-Apr-20 A	16-Apr-20 A	0		100%
Consultancy Services		0	16-Jun-20 A	14-Sep-20 A			0%
DIA-1000	Award of consultant - Drainage Impact Assessment	0		26-Jun-20 A	0		100%
ICE-1000	Award of consultant - Independent Checking Engineer	0		14-Sep-20 A	0		100%
TTM-1000	Award of consultant - Temporary Traffic Management	0		16-Jun-20 A	0		100%
Specialist Subcontractors		1043	16-Jun-20 A	01-Dec-23 A			100%
SC-0035	Award of subcontract - Trial Pits and Inspection Pits	0		16-Jun-20 A	0		100%
SC-0040	Award of subcontract - Utilities Detection	0		24-Jun-20 A	0		100%
SC-0060	Award of subcontract - Landscape (incl. Tree Protection, Tree survey, etc)	0		26-Jun-20 A	0		100%
SC-0070	Award of subcontract - Ground Investigation	0		28-Jul-20 A	0		100%
SC-0778	Award of subcontract - Earthworks, Road works and ducting at VRA Portion 11	0		01-Dec-23 A			100%
SC-0779	Award of subcontract - Structure and ABWF for Electrical Substation at VRA Portion 11	0		01-Dec-23 A			100%
SC-1075	Award of subcontract - E&M Works	0		06-Jan-21 A			100%
SC-1080	Award of subcontract - Earthworks & Roadworks	0		16-Feb-21 A	0		100%
SC-1085	Award of subcontract - Footbridge & Structure	0		19-Apr-21 A			100%
SC-1090	Award of subcontract - Pipejacking (Section under PMI-009)	0		28-Jul-21 A	0		100%
SC-1095	Award of subcontract - Structural Design for Pai Lau	0		30-Sep-21 A			100%
SC-1100	Award of subcontract - Bearing and MJ at Footbridge	0		08-Oct-21 A			100%
SC-1105	Award of subcontract - Waterproofing	0		23-Nov-21 A			100%
SC-1115	Award of subcontract - Lift Installation at Visitor Center	0		07-Dec-21 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

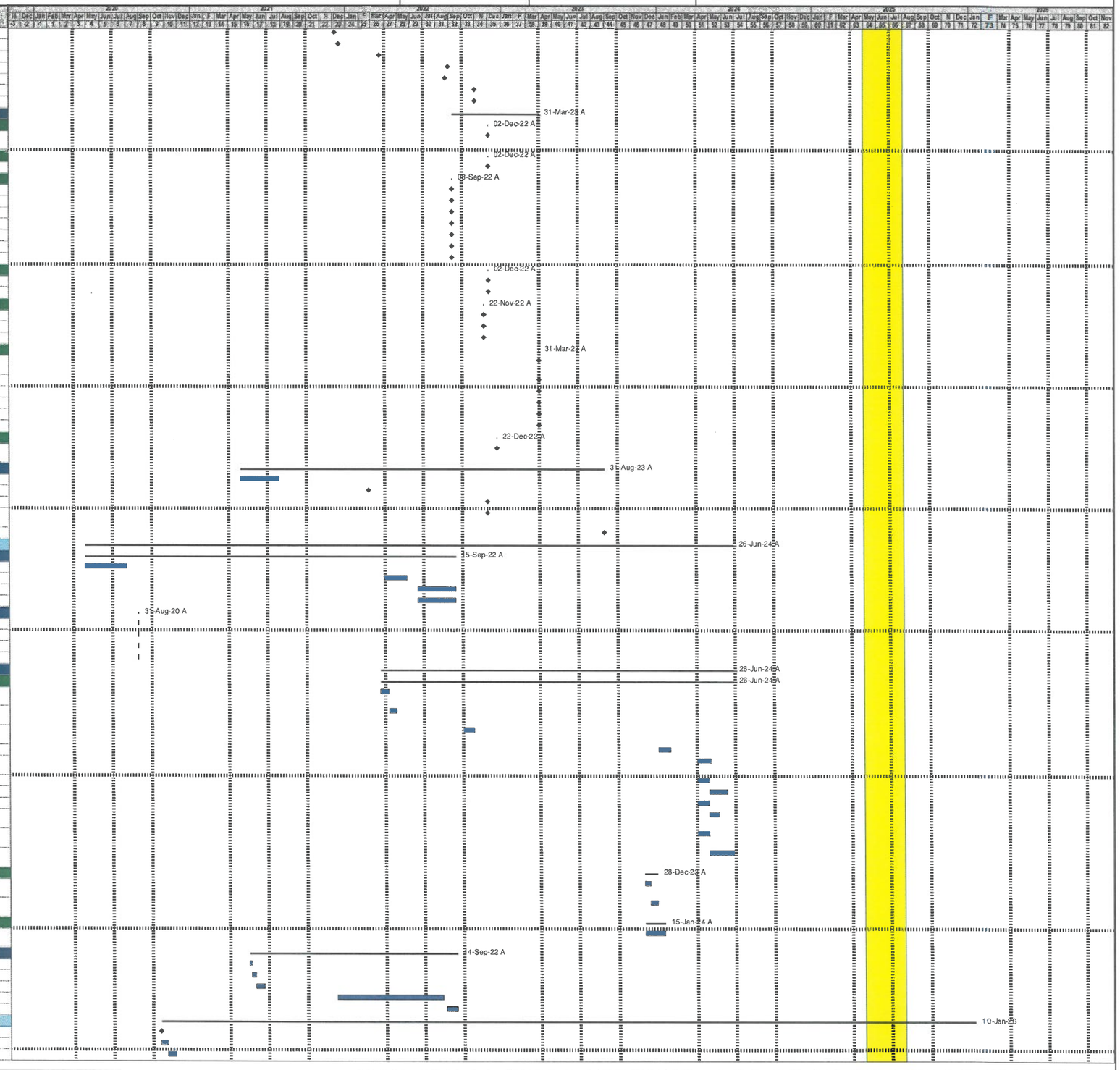
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
SC-1160	Award of subcontract - Pai Lau Construction	0		07-Dec-21 A			100%
SC-1180	Award of subcontract - Dewatering Works for SPS	0		16-Dec-21 A			100%
SC-1190	Award of subcontract - Specialist for lighting proposal at KT1.40A to KT1.41A	0		21-Mar-22 A			100%
SC-1205	Award of subcontract - Construction of Temporary Sewerage System	0		30-Aug-22 A			100%
SC-1210	Award of subcontract - Grout Curtain of SPS	0		23-Aug-22 A			100%
SC-1215	Award of subcontract - Hard Landscape	0		31-Oct-22 A			100%
SC-1220	Award of subcontract - Soft Landscape	0		31-Oct-22 A			100%
ABWF		163	08-Sep-22 A	31-Mar-23 A			100%
Package 1 - Gold Success		0	02-Dec-22 A	02-Dec-22 A			0%
SC-1195-1	Award of subcontract - ABWF works (Package 1 - Int / Ext Finishes, Brickwork and Plastering)	0		02-Dec-22 A			100%
Package 2 - Gold Success		0	02-Dec-22 A	02-Dec-22 A			0%
SC-1195-2	Award of subcontract - ABWF works (Package 2 - Painting)	0		02-Dec-22 A			100%
Package 3 - Sanway		0	08-Sep-22 A	08-Sep-22 A			0%
SC-1195-137	Award of subcontract - ABWF works (Package 3 - Timber Deck)	0		08-Sep-22 A			100%
SC-1195-147	Award of subcontract - ABWF works (Package 3 - Suspended Ceiling)	0		08-Sep-22 A			100%
SC-1195-157	Award of subcontract - ABWF works (Package 3 - Raised Floor)	0		08-Sep-22 A			100%
SC-1195-167	Award of subcontract - ABWF works (Package 3 - Plastic laminate wall panel)	0		08-Sep-22 A			100%
SC-1195-177	Award of subcontract - ABWF works (Package 3 - Thermal Insulation Board)	0		08-Sep-22 A			100%
SC-1195-187	Award of subcontract - ABWF works (Package 3 - Glass Wall)	0		08-Sep-22 A			100%
SC-1195-197	Award of subcontract - ABWF works (Package 3 - Movable Partition)	0		08-Sep-22 A			100%
Package 4 - Sanway		0	02-Dec-22 A	02-Dec-22 A			0%
SC-1195-4	Award of subcontract - ABWF works (Package 4 - Timber Door)	0		02-Dec-22 A			100%
SC-1195-67	Award of subcontract - ABWF works (Package 4 - Fitting and fixtures)	0		02-Dec-22 A			100%
Package 5 - De Heng		0	22-Nov-22 A	22-Nov-22 A			0%
SC-1195-50	Award of subcontract - ABWF works (Package 5 - Window)	0		22-Nov-22 A			100%
SC-1195-51	Award of subcontract - ABWF works (Package 5 - Aluminium Grilles)	0		22-Nov-22 A			100%
SC-1195-52	Award of subcontract - ABWF works (Package 5 - Louvre)	0		22-Nov-22 A			100%
Package 6		0	31-Mar-23 A	31-Mar-23 A			0%
SC-1195-107	Award of subcontract - ABWF works (Package 6 - Fences, Handrail, Guardrail, Parapet & Gate)	0		31-Mar-23 A			100%
SC-1195-117	Award of subcontract - ABWF works (Package 6 - Roller Shutter)	0		31-Mar-23 A			100%
SC-1195-207	Award of subcontract - ABWF works (Package 6 - Steel Door)	0		31-Mar-23 A			100%
SC-1195-6	Award of subcontract - ABWF works (Package 6 - Skylight)	0		31-Mar-23 A			100%
SC-1195-87	Award of subcontract - ABWF works (Package 6 - Fall Arrest System	0		31-Mar-23 A			100%
SC-1195-97	Award of subcontract - ABWF works (Package 6 - Sundries Metal Works)	0		31-Mar-23 A			100%
Package 7 - Jibpool		0	22-Dec-22 A	22-Dec-22 A			0%
SC-1195-7	Award of subcontract - ABWF works (Package 7 - Toilet Cubicles and Shower Cubicles)	0		22-Dec-22 A			100%
Others		743	29-Apr-21 A	31-Aug-23 A			100%
SC-0090	CE-023 Subletting for Pipejacking (Phase 1)	80	29-Apr-21 A	28-Jul-21 A			100%
SC-1185	Award of subcontract - Pipe jacking phase 2 (VTECH)	0		23-Feb-22 A			100%
SC-1230	Award of subcontract - Pipe jacking phase 3 (Portion 4,5,6) - Yee Hop	0		30-Nov-22 A			100%
SC-1240	Award of subcontract - Rising Main Construction (CHA 1028 to 1735) (Excl. CHA 1250 to 1298)	0		30-Nov-22 A			100%
SC-1250	Award of subcontract - Ground Investigation Works of Portion 11	0		31-Aug-23 A			100%
Statutory Submission		1212	27-Apr-20 A	26-Jun-24 A			100%
HyD		660	27-Apr-20 A	15-Sep-22 A			100%
XP-1000	Capital works excavation permit (CWXP) application for Portion 1 & 2	142	27-Apr-20 A	01-Aug-20 A		0	100%
XP-1010	Excavation permit (XP) application for Portion 4	80	31-Mar-22 A	23-May-22 A		0	100%
XP-1020	Excavation permit (XP) application for Portion 5	100	18-Jun-22 A	15-Sep-22 A		0	100%
XP-1030	Excavation permit (XP) application for Portion 8	100	18-Jun-22 A	15-Sep-22 A		0	100%
DSD		79	30-Aug-20 A	31-Aug-20 A			100%
DSD-1000	Preparation and submission of Construction Drainage Impact Assessment (CDIA)	12	30-Aug-20 A	31-Aug-20 A		0	100%
DSD-1010	Review and comment by PM	12	30-Aug-20 A	31-Aug-20 A		0	100%
DSD-1020	Submission to DSD	53	30-Aug-20 A	31-Aug-20 A		0	100%
DSD-1030	Re-submission to DSD	25	30-Aug-20 A	31-Aug-20 A		0	100%
MTRC		554	21-Mar-22 A	26-Jun-24 A			100%
Method Statement Submission and Approval		554	21-Mar-22 A	26-Jun-24 A			100%
MTRC-0700	Preparation of Method Statement for pipe laying work of rising main nearby MTRC area (MS-659)	15	21-Mar-22 A	09-Apr-22 A		0	100%
MTRC-0800	Submission and Review of Method Statement for pipe laying work of rising main nearby MTRC area	12	11-Apr-22 A	28-Apr-22 A		0	100%
MTRC-0900	Re-submission and Approval of Method Statement for pipe laying work of rising main nearby MTRC area	19	03-Oct-22 A	27-Oct-22 A		0	100%
MTRC-1000	Preparation of Method Statement for pipe jacking work underneath East Rail Line	27	02-Jan-24 A	29-Jan-24 A		0	100%
MTRC-1010	Approval of Method Statement for pipe jacking work underneath East Rail Line [3 May 2024]	37	02-Apr-24 A	03-May-24 A		0	100%
MTRC-1020	Preparation of material and plants for pipe jacking work underneath East Rail Line	27	02-Apr-24 A	30-Apr-24 A		0	100%
MTRC-1030	Approval of material and plants for pipe jacking work underneath East Rail Line	37	30-Apr-24 A	11-Jun-24 A		0	100%
MTRC-1040	Preparation of contingency plan for pipe jacking work underneath East Rail Line	27	02-Apr-24 A	30-Apr-24 A		0	100%
MTRC-1050	Approval of contingency plan for pipe jacking work underneath East Rail Line [22 May 2024]	37	30-Apr-24 A	22-May-24 A		0	100%
MTRC-1060	Preparation of Method Statement for manhole construction work underneath East Rail Line	27	02-Apr-24 A	30-Apr-24 A		0	100%
MTRC-1070	Approval of Method Statement for manhole construction work underneath East Rail Line	37	30-Apr-24 A	26-Jun-24 A		0	100%
Pre-condition Survey & Report		25	30-Nov-23 A	28-Dec-23 A			100%
MTRC-1110	Preparation of Pre-condition Survey report before construction work underneath East Rail Line	12	30-Nov-23 A	13-Dec-23 A		0	100%
MTRC-1120	Approval of Pre-condition report before construction work underneath East Rail Line	12	13-Dec-23 A	28-Dec-23 A		0	100%
Notification of commencement of works		53	01-Dec-23 A	15-Jan-24 A			100%
MTRC-1130	Preparation and Submission of Written Notice to MTRCL for the notification of commencement of works	53	01-Dec-23 A	15-Jan-24 A		0	100%
TPRP		427	17-May-21 A	14-Sep-22 A			100%
TPRP-1010	TPRP Submission for CE-026 - 1st submission & review	80	17-May-21 A	22-May-21 A			100%
TPRP-1020	TPRP Submission for CE-026 - response to comment and resubmission	12	23-May-21 A	31-May-21 A			100%
TPRP-1030	TPRP Submission for CE-026 - 2nd submission & approval	19	01-Jun-21 A	21-Jun-21 A			100%
TPRP-1040	Tree Felling Proposal Submission and Approval for FMH1.30A (CSF-477)	206	07-Dec-21 A	12-Aug-22 A		0	100%
TPRP-1050	Tree Felling (26 nos)	21	22-Aug-22 A	14-Sep-22 A		0	100%
BIM Submission		1656	19-Oct-20 A	10-Jan-26	141		98.01%
BIM1000	Submission of Execution Plan	0	19-Oct-20 A				100%
BIM1010	1st Review and Comment by PM	18	20-Oct-20 A	04-Nov-20 A			100%
BIM1020	Re-submission of Execution Plan	18	05-Nov-20 A	23-Nov-20 A			100%



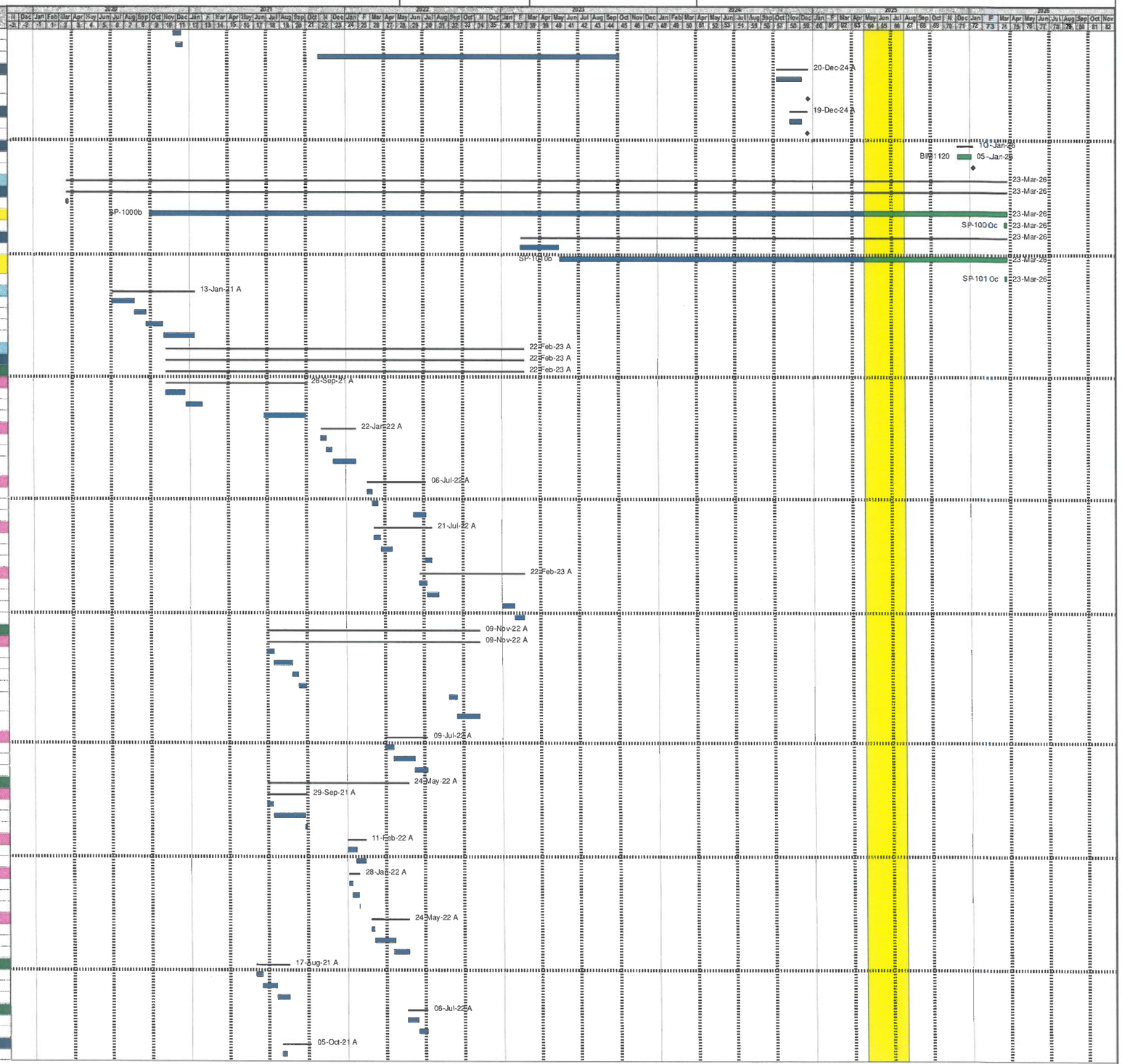
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	FRA	Duration % Complete
BIM1030	2nd Review and Comment by PM	18	26-Nov-20 A	14-Dec-20 A			100%
BIM1040	Preparation and Submission of Initial BIM Model	18	02-Dec-20 A	17-Dec-20 A			100%
BIM1045	Preparation and Submission of BIM Model for Bar Bending Schedule	704	30-Oct-21 A	03-Oct-23 A			100%
1. Long Valley Nature Centre		74	08-Oct-24 A	20-Dec-24 A			100%
BIM1047	Preparation and Submission of BIM Model for updating CSD and CBWD [BEP Rev.11 IN-06423]	60	08-Oct-24 A	06-Dec-24 A			100%
BIM1050	Submission of Fully Coordinated BIM Model (As-built)	0		20-Dec-24 A			100%
2. Footbridge		40	08-Nov-24 A	19-Dec-24 A			100%
BIM1060	Preparation and Submission of BIM Model for updating CSD and CBWD	27	08-Nov-24 A	05-Dec-24 A			100%
BIM1070	Submission of Fully Coordinated BIM Model (As-built)	0		19-Dec-24 A			100%
3. Sewerage Pumping Station		33	04-Dec-25	10-Jan-26	141		0%
BIM1120	Preparation and Submission of BIM Model for updating CSD and CBWD	27	04-Dec-25	05-Jan-26	141		0%
BIM1130	Submission of Fully Coordinated BIM Model (As-built)	0		10-Jan-26	141		0%
Site Offices & Preliminaries		2311	18-Mar-20 A	23-Mar-26	86		85.81%
Temporary office for RE		2001	18-Mar-20 A	23-Mar-26	86		83.61%
SP-1000a	Erection of container office in WA2	7	18-Mar-20 A	24-Mar-20 A		0	100%
SP-1000b	Maintenance of WA2 container office until removal	1192	30-Sep-20 A	23-Mar-26	86	0	72.48%
SP-1000c	Removal of container office in WA2	7	17-Mar-26	23-Mar-26*	86	0	0%
Temporary office for Contractor		1442	16-Feb-23 A	23-Mar-26	86		77.25%
SP-1010a	Erection of container office in WA1	90	16-Feb-23 A	16-May-23 A		0	100%
SP-1010b	Maintenance of WA1 container office until removal (aligned with Section 4A completion date)	1352	17-May-23 A	23-Mar-26	86	0	75.74%
SP-1010c	Removal of container office in WA1 (aligned with Section 4A completion date)	6	18-Mar-26	23-Mar-26	86	0	0%
Tree Survey		108	03-Jul-20 A	13-Jan-21 A			100%
TS-1000	Tree Survey Works - Preparation of Document	12	03-Jul-20 A	25-Aug-20 A		0	100%
TS-1010	Tree Survey Works - Submission to Project Manager (PM)	25	26-Aug-20 A	21-Sep-20 A		0	100%
TS-1020	Tree Survey Works - Re-submission to PM	27	22-Sep-20 A	30-Oct-20 A		0	100%
TS-1030	Tree Survey Works - Submission to EPD by PM	53	02-Nov-20 A	13-Jan-21 A		0	100%
Contractor's Design		1810	06-Nov-20 A	22-Feb-23 A			100%
Temporary Works Design		1810	06-Nov-20 A	22-Feb-23 A			100%
Footbridge FK2		571	06-Nov-20 A	22-Feb-23 A			100%
ELS Design		19	06-Nov-20 A	28-Sep-21 A			100%
TWD-1120	ELS Design - 1st submission to PM & review	19	06-Nov-20 A	21-Dec-20 A			100%
TWD-1130	ELS Design - Review and Resubmission	12	22-Dec-20 A	30-Jan-21 A			100%
TWD-1140	ELS Design - 2nd submission to PM & Approval	19	23-Jun-21 A	28-Sep-21 A			100%
Formwork Design (Abutment Wall) - CSF475		46	03-Nov-21 A	22-Jan-22 A			100%
TWD-1150	Formwork and Falsework Design (FK2 Abutment)- 1st submission to PM & review	19	03-Nov-21 A	15-Nov-21 A			100%
TWD-1160	Formwork and Falsework Design (FK2 Abutment) - Review and Resubmission	12	16-Nov-21 A	29-Nov-21 A			100%
TWD-1170	Formwork and Falsework Design (FK2 Abutment) - 2nd submission to PM & Approval	19	30-Nov-21 A	22-Jan-22 A			100%
Formwork Design (Bridge Pier) - CSF576		62	19-Feb-22 A	06-Jul-22 A			100%
TWD-1310	Formwork and Falsework Design (Bridge Pier)- 1st submission to PM & review	10	19-Feb-22 A	02-Mar-22 A			100%
TWD-1320	Formwork and Falsework Design (Bridge Pier) - Review and Resubmission	21	03-Mar-22 A	16-Mar-22 A			100%
TWD-1330	Formwork and Falsework Design (Bridge Pier) - 2nd submission to PM & Approval	10	08-Jun-22 A	06-Jul-22 A			100%
Falsework Design (End Bridge Deck) - CSF584		104	07-Mar-22 A	21-Jul-22 A			100%
TWD-1340	Falsework Design (Bridge Deck) - 1st submission to PM & review	15	07-Mar-22 A	23-Mar-22 A			100%
TWD-1350	Falsework Design (Bridge Deck) - Review and Resubmission	21	24-Mar-22 A	18-Apr-22 A			100%
TWD-1360	Falsework Design (Bridge Deck) - 2nd submission to PM & Approval	14	06-Jul-22 A	21-Jul-22 A			100%
Falsework Design (Mid Span Bridge Deck) - CSF894		223	21-Jun-22 A	22-Feb-23 A			100%
TWD-1400	Falsework Design (Bridge Deck)- 1st submission to PM	15	21-Jun-22 A	08-Jul-22 A			100%
TWD-1405	Falsework Design (Bridge Deck)- 1st round PM comment	24	09-Jul-22 A	05-Aug-22 A			100%
TWD-1410	Falsework Design (Bridge Deck) - Review and Resubmission	21	03-Jan-23 A	30-Jan-23 A			100%
TWD-1420	Falsework Design (Bridge Deck) - 2nd round submission to PM & Approval	21	31-Jan-23 A	22-Feb-23 A			100%
Sewage Pumping Station		1767	29-Jun-21 A	09-Nov-22 A			100%
ELS Design		1767	29-Jun-21 A	09-Nov-22 A			100%
TWD-1000	ELS Design - 1st submission to PM & review	19	29-Jun-21 A	14-Jul-21 A			100%
TWD-1010	ELS Design - Review and Resubmission	24	15-Jul-21 A	27-Aug-21 A			100%
TWD-1020	ELS Design - 2nd submission to PM & review	19	28-Aug-21 A	10-Sep-21 A			100%
TWD-1025	ELS Design - 3rd submission to PM & Approval	16	11-Sep-21 A	29-Sep-21 A			100%
TWD-1450	ELS Design - submission of Design Review for Early Strut Removal of Early Construction of Valve Chamber wall	17	29-Aug-22 A	16-Sep-22 A			100%
TWD-1460	ELS Design - submission of ICE19F for Early Strut Removal of Early Construction of Valve Chamber wall	48	17-Sep-22 A	09-Nov-22 A			100%
Formwork Design (CSF 675)		86	01-Apr-22 A	09-Jul-22 A			100%
TWD-1030	Column Formwork and Falsework Design - 1st submission to PM & review	17	01-Apr-22 A	19-Apr-22 A			100%
TWD-1040	Column Formwork and Falsework Design - Review and Resubmission	45	20-Apr-22 A	09-Jun-22 A			100%
TWD-1050	Column Formwork and Falsework Design - 2nd submission to PM & Approval	27	10-Jun-22 A	09-Jul-22 A			100%
Visitor Centre		256	29-Jun-21 A	24-May-22 A			100%
ELS Design - CSF273		64	29-Jun-21 A	29-Sep-21 A			100%
TWD-1060	ELS Design - 1st submission to PM & review	19	29-Jun-21 A	12-Jul-21 A			100%
TWD-1070	ELS Design - Review and Resubmission	12	13-Jul-21 A	24-Sep-21 A			100%
TWD-1080	ELS Design - 2nd submission to PM & Approval	16	25-Sep-21 A	29-Sep-21 A			100%
Vertical Blinding Design - CSF439		44	31-Dec-21 A	11-Feb-22 A			100%
TWD-1280	Formwork Design for Vertical Blinding - 1st submission to PM & review	19	31-Dec-21 A	21-Jan-22 A			100%
TWD-1290	Formwork Design for Vertical Blinding - Review and Approval	6	22-Jan-22 A	11-Feb-22 A			100%
Single Side Formwork Design for Base slab - CSF454		81	04-Jan-22 A	28-Jan-22 A			100%
TWD-1090	Formwork and Falsework Design - 1st submission to PM & review	19	04-Jan-22 A	12-Jan-22 A			100%
TWD-1100	Formwork and Falsework Design - Review and Resubmission	6	13-Jan-22 A	27-Jan-22 A			100%
TWD-1110	Formwork and Falsework Design - 2nd submission to PM & Approval	12	28-Jan-22 A	28-Jan-22 A			100%
Formwork Design for Superstructure - CSF598		58	25-Feb-22 A	24-May-22 A			100%
TWD-1370	Formwork and Falsework Design - 1st submission to PM & review	12	25-Feb-22 A	04-Mar-22 A			100%
TWD-1380	Formwork and Falsework Design - Review and Resubmission	19	05-Mar-22 A	22-Apr-22 A			100%
TWD-1390	Formwork and Falsework Design - 2nd submission to PM & Approval	12	18-Apr-22 A	24-May-22 A			100%
Pipeworks		89	01-Jun-21 A	17-Aug-21 A			100%
TWD-1180	ELS Design - 1st submission to PM & review	19	01-Jun-21 A	15-Jun-21 A			100%
TWD-1185	ELS Design - Review and Resubmission	6	16-Jun-21 A	19-Jul-21 A			100%
TWD-1187	ELS Design - 2nd submission to PM & Approval	19	20-Jul-21 A	17-Aug-21 A			100%
3m Dia. Drain (CSF 828 & 834)		38	21-May-22 A	06-Jul-22 A			100%
TWD-1430	ELS Design - 1st submission to PM & review	19	21-May-22 A	15-Jun-22 A			100%
TWD-1440	ELS Design - Review and and Approval	15	16-Jun-22 A	06-Jul-22 A			100%
CE-026 Extension of Cycle Track outside Dills Corner Garden		46	01-Aug-21 A	05-Oct-21 A			100%
TWD-1240	Preparation of Design for Extension of Cycle Track Outside Dills Corner Garden	25	01-Aug-21 A	10-Aug-21 A		0	100%



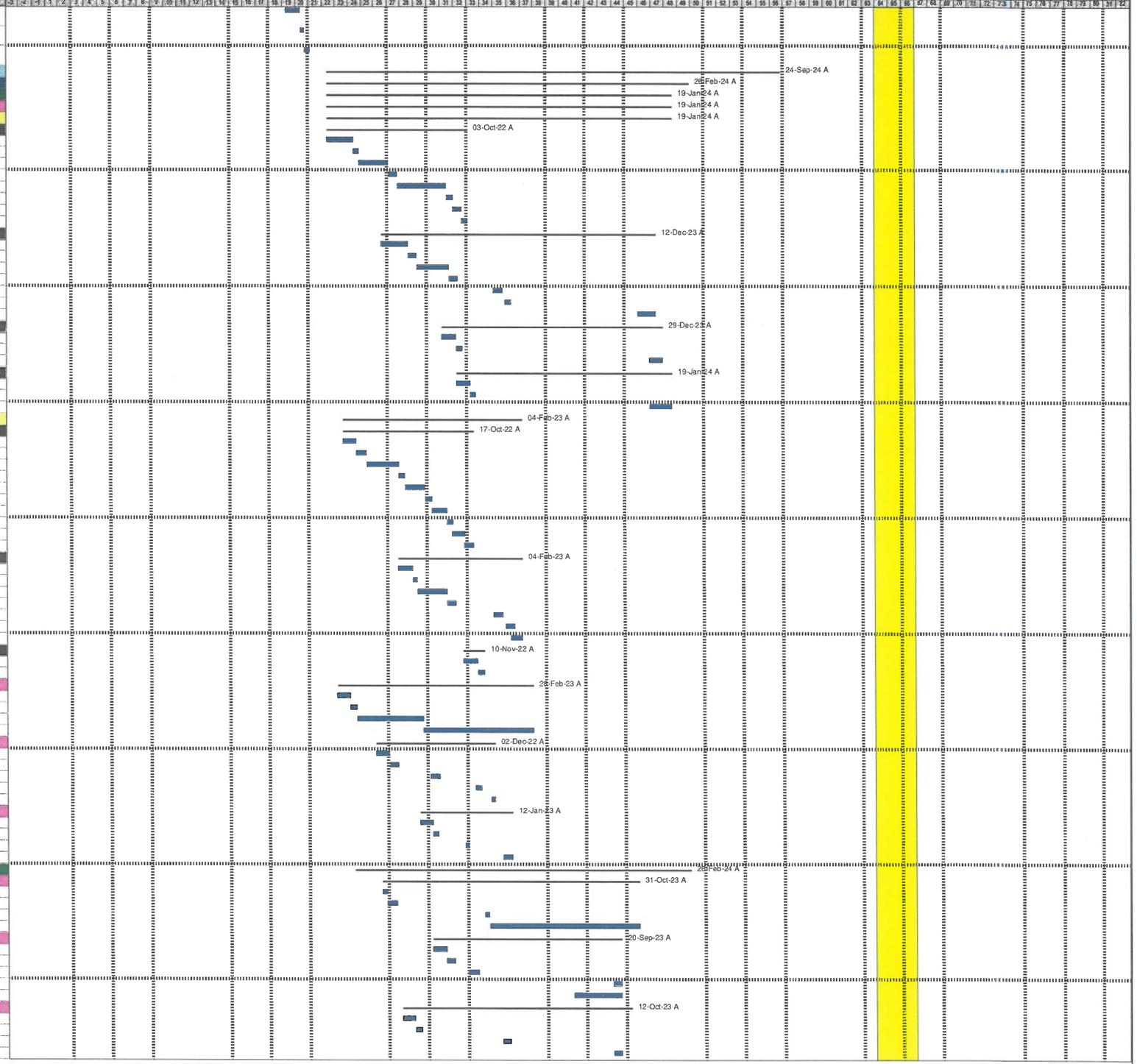
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
TWD-1250	Design for Extension of Cycle Track Outside Dills Corner Garden - 1st submission to PM & review	19	11-Aug-21 A	13-Sep-21 A		0	100%
TWD-1260	Design for Extension of Cycle Track Outside Dills Corner Garden - review and resubmission	12	14-Sep-21 A	22-Sep-21 A		0	100%
TWD-1270	Design for Extension of Cycle Track Outside Dills Corner Garden - 2nd submission to PM & Approval	19	23-Sep-21 A	05-Oct-21 A		0	100%
E&M Submission		950	13-Nov-21 A	24-Sep-24 A			100%
Visitor Centre		751	13-Nov-21 A	26-Feb-24 A			100%
BS Shop Drawings Submission (Visitor Centre)		719	13-Nov-21 A	19-Jan-24 A			100%
CSD/ CBWD		719	13-Nov-21 A	19-Jan-24 A			100%
CSD		719	13-Nov-21 A	19-Jan-24 A			100%
Basement (CSF 495)		290	13-Nov-21 A	03-Oct-22 A			100%
CSD-VC1000	CSD Preparation and submission for Visitor Centre (Rev.0)	53	13-Nov-21 A	13-Jan-22 A		0	100%
CSD-VC1010	PM review & 1st round comment	11	14-Jan-22 A	26-Jan-22 A		0	100%
CSD-VC1020	CSD Preparation and submission for Visitor Centre (Rev.1)	49	27-Jan-22 A	04-Apr-22 A		0	100%
CSD-VC1030	PM review & 2nd round comment	15	06-Apr-22 A	25-Apr-22 A		0	100%
CSD-VC1040	CSD Preparation and submission for Visitor Centre (Rev.2)	83	26-Apr-22 A	15-Aug-22 A		0	100%
CSD-VC1050	PM review & 3rd round comment	12	16-Aug-22 A	31-Aug-22 A		0	100%
CSD-VC1100	CSD Preparation and submission for Visitor Centre (Rev.3)	19	31-Aug-22 A	20-Sep-22 A		0	100%
CSD-VC1110	PM review & 4th round comment	12	20-Sep-22 A	03-Oct-22 A		0	100%
G/F (CSF 758)		713	19-Mar-22 A	12-Dec-23 A			100%
CSD-VC1060	CSD Preparation and submission for Visitor Centre (Rev.0)	53	19-Mar-22 A	19-May-22 A		0	100%
CSD-VC1070	PM review & 1st round comment	14	20-May-22 A	08-Jun-22 A		0	100%
CSD-VC1080	CSD Preparation and submission for Visitor Centre (Rev.1)	56	09-Jun-22 A	22-Aug-22 A		0	100%
CSD-VC1090	PM review & 2nd round comment	15	23-Aug-22 A	10-Sep-22 A		0	100%
CSD-VC1120	CSD Preparation and submission for Visitor Centre (Rev.2)	21	01-Dec-22 A	23-Dec-22 A		0	100%
CSD-VC1130	PM review & 3rd round comment	15	30-Dec-22 A	11-Jan-23 A		0	100%
CSD-VC1200	CSD Preparation and submission for Visitor Centre (Rev.3)	40	01-Nov-23 A	12-Dec-23 A		0	100%
1/F (CSF 1027)		463	05-Aug-22 A	29-Dec-23 A			100%
CSD-VC1140	CSD Preparation and submission for Visitor Centre (Rev.0)	26	05-Aug-22 A	07-Sep-22 A		0	100%
CSD-VC1150	PM review & 1st round comment	11	08-Sep-22 A	21-Sep-22 A		0	100%
CSD-VC1160	CSD Preparation and submission for Visitor Centre (Rev.1)	27	30-Nov-23 A	29-Dec-23 A		0	100%
R/F (CSF 1046)		449	09-Sep-22 A	19-Jan-24 A			100%
CSD-VC1170	CSD Preparation and submission for Visitor Centre (Rev.0)	21	09-Sep-22 A	10-Oct-22 A		0	100%
CSD-VC1180	PM review & 1st round comment	10	11-Oct-22 A	22-Oct-22 A		0	100%
CSD-VC1190	CSD Preparation and submission for Visitor Centre (Rev.1)	45	30-Nov-23 A	19-Jan-24 A		0	100%
CBWD		367	20-Dec-21 A	04-Feb-23 A			100%
Basement (CSF-508)		269	20-Dec-21 A	17-Oct-22 A			100%
CBW-VC1000	CBW Preparation and submission for Visitor Centre (Rev.0)	21	20-Dec-21 A	18-Jan-22 A		0	100%
CBW-VC1010	PM review & 1st round comment	17	19-Jan-22 A	12-Feb-22 A		0	100%
CBW-VC1020	CBW Preparation and submission for Visitor Centre (Rev.1)	55	14-Feb-22 A	27-Apr-22 A		0	100%
CBW-VC1110	PM review & 2nd round comment	10	28-Apr-22 A	11-May-22 A		0	100%
CBW-VC1120	CBW Preparation and submission for Visitor Centre (Rev.2)	35	12-May-22 A	27-Jun-22 A		0	100%
CBW-VC1180	PM review & 3rd round comment	11	28-Jun-22 A	12-Jul-22 A		0	100%
CBW-VC1190	CBW Preparation and submission for Visitor Centre (Rev.3)	27	13-Jul-22 A	16-Aug-22 A		0	100%
CBW-VC1200	PM review & 4th round comment	19	17-Aug-22 A	29-Aug-22 A		0	100%
CBW-VC1290	CSD Preparation and submission for Visitor Centre (Rev.4)	27	29-Aug-22 A	26-Sep-22 A		0	100%
CBW-VC1300	PM review & 5th round comment	19	26-Sep-22 A	17-Oct-22 A		0	100%
G/F (CSF 537)		256	27-Apr-22 A	04-Feb-23 A			100%
CBW-VC1210	CBW Preparation and submission for Visitor Centre (Rev.0)	24	27-Apr-22 A	28-May-22 A		0	100%
CBW-VC1220	PM review & 1st round comment	7	30-May-22 A	08-Jun-22 A		0	100%
CBW-VC1230	CBW Preparation and submission for Visitor Centre (Rev.1)	52	09-Jun-22 A	16-Aug-22 A		0	100%
CBW-VC1240	PM review & 2nd round comment	14	17-Aug-22 A	05-Sep-22 A		0	100%
CBW-VC1310	CBW Preparation and submission for Visitor Centre (Rev.2)	21	01-Dec-22 A	22-Dec-22 A		0	100%
CBW-VC1320	PM review & 3rd round comment	14	30-Dec-22 A	18-Jan-23 A		0	100%
CBW-VC1330	CBW Preparation and submission for Visitor Centre (Rev.3)	21	10-Jan-23 A	04-Feb-23 A		0	100%
R/F (CSF 1097)		48	23-Sep-22 A	10-Nov-22 A			100%
CBW-VC1420	CBW Preparation and submission for Visitor Centre (Rev.0)	23	23-Sep-22 A	25-Oct-22 A		0	100%
CBW-VC1430	PM review & acceptance	19	26-Oct-22 A	10-Nov-22 A		0	100%
MVAC (CSF 451)		242	06-Dec-21 A	28-Feb-23 A			100%
MVAC-VC1070	Shop Drawing Preparation and submission for Visitor Centre (MVAC)	21	06-Dec-21 A	04-Jan-22 A		0	100%
MVAC-VC1080	PM review & 1st round comment	11	05-Jan-22 A	18-Jan-22 A		0	100%
MVAC-VC1090	CBW Preparation and submission for Visitor Centre (Rev.1)	112	19-Jan-22 A	21-Jun-22 A		0	100%
MVAC-VC1095	PM review & 2nd round comment	68	22-Jun-22 A	28-Feb-23 A		0	100%
Lift (CSF-643)		217	04-Mar-22 A	02-Dec-22 A			100%
LT-VC1000	Shop Drawing Preparation and submission for Visitor Centre (Lift)	24	04-Mar-22 A	04-Apr-22 A		0	100%
LT-VC1010	1st submission to PM & review	15	06-Apr-22 A	25-Apr-22 A		0	100%
LT-VC1020	2nd submission to PM & review	18	08-Jul-22 A	28-Jul-22 A		0	100%
LT-VC1070	3rd submission to PM & review	19	20-Oct-22 A	01-Nov-22 A		0	100%
LT-VC1080	4th submission to PM & approval	6	25-Nov-22 A	02-Dec-22 A		0	100%
PV Panel (CSF-909)		134	13-Jun-22 A	12-Jan-23 A			100%
ABWF-P3-1300	Shop Drawing Submission - PV Panel	22	13-Jun-22 A	12-Jul-22 A		0	100%
ABWF-P3-1310	Shop Drawing Submission - PV Panel - 1st round comment by PM & review	10	13-Jul-22 A	25-Jul-22 A		0	100%
ABWF-P3-1320	Shop Drawing Submission - PV Panel - 2nd submission to PM & review	5	26-Sep-22 A	03-Oct-22 A		0	100%
ABWF-P3-1690	Shop Drawing Submission - PV Panel - 3rd submission to PM & review	16	21-Dec-22 A	12-Jan-23 A		0	100%
BS Materials Submission & Procurement (Visitor Centre)		695	14-Jan-22 A	26-Feb-24 A			100%
PD (CSF-607)		243	17-Mar-22 A	31-Oct-23 A			100%
PD-VC1000	Material Submission - Submersible Pump	22	17-Mar-22 A	29-Mar-22 A		0	100%
PD-VC1010	Submersible Pump - 1st round comment by PM & review	22	30-Mar-22 A	20-Apr-22 A		0	100%
PD-VC1020	Submersible Pump - 2nd submission to PM & approval	8	09-Nov-22 A	18-Nov-22 A		0	100%
PD-VC1030	Procurement & Delivery of Submersible Pump (16wks)	85	19-Nov-22 A	31-Oct-23 A		0	100%
FS (CSF-980)		421	12-Jul-22 A	20-Sep-23 A			100%
FS-VC1000	Material Submission - Sprinkler Pump & Local Control Panel	25	12-Jul-22 A	12-Aug-22 A		0	100%
FS-VC1010	Sprinkler Pump & Local Control Panel - 1st round comment by PM & review	14	13-Aug-22 A	31-Aug-22 A		0	100%
FS-VC1020	Sprinkler Pump & Local Control Panel - 2nd submission to PM	19	03-Oct-22 A	24-Oct-22 A		0	100%
FS-VC1040	Sprinkler Pump & Local Control Panel - 3rd submission to PM	19	31-Aug-23 A	19-Sep-23 A		0	100%
FS-VC1050	Procurement & Delivery of Sprinkler Pump & Local Control Panel (24wks)	128	01-Jun-23 A	20-Sep-23 A		0	100%
MVAC (CSF-676)		321	02-May-22 A	12-Oct-23 A			100%
MVAC-VC1100	Material Submission - AC Split Type	19	02-May-22 A	30-May-22 A		0	100%
MVAC-VC1110	AC Split Type - 1st round comment by PM & review	19	31-May-22 A	15-Jun-22 A		0	100%
MVAC-VC1120	AC Split Type - 2nd submission to PM & review	12	19-Dec-22 A	05-Jan-23 A		0	100%
MVAC-VC1130	AC Split Type - 3rd submission to PM & approval	19	01-Sep-23 A	20-Sep-23 A		0	100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

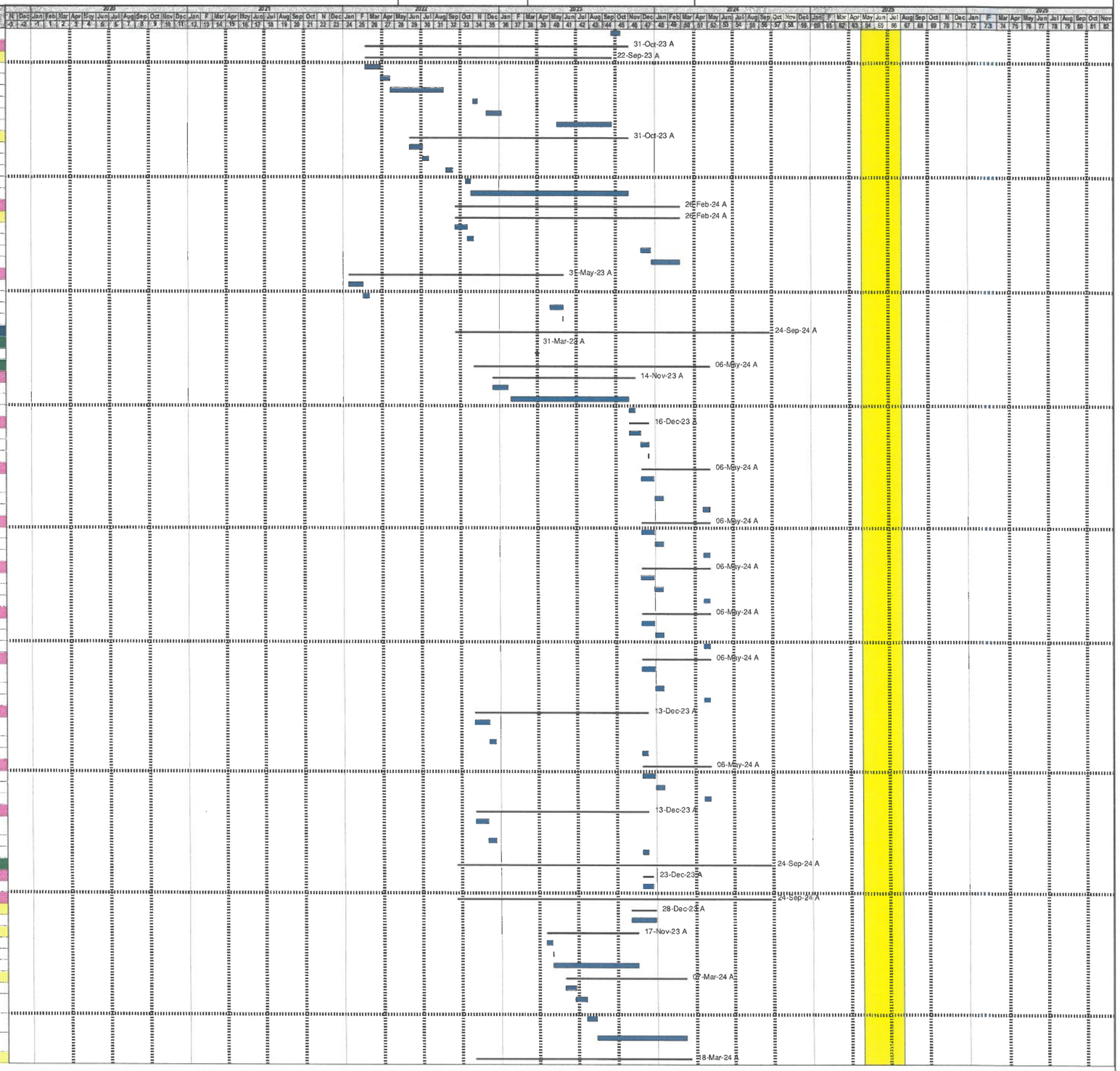
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
MVAC-VC1140	Procurement & Delivery of - AC Split Type (12wks)	19	21-Sep-23 A	12-Oct-23 A		0	100%
ELE		324	22-Feb-22 A	31-Oct-23 A			100%
Genset (CSF-620)		324	22-Feb-22 A	22-Sep-23 A			100%
ELE-VC1000	Material Submission - Genset	22	22-Feb-22 A	29-Mar-22 A		0	100%
ELE-VC1010	Genset - 1st round comment by PM & review	16	30-Mar-22 A	20-Apr-22 A		0	100%
ELE-VC1020	Genset - 2nd submission to PM	98	21-Apr-22 A	23-Aug-22 A		0	100%
ELE-VC1025	Genset - 3rd submission to PM and review	9	01-Nov-22 A	11-Nov-22 A		0	100%
ELE-VC1027	Genset - 4th submission to PM and Approval	27	01-Dec-22 A	06-Jan-23 A		0	100%
ELE-VC1030	Procurement & Delivery of - Genset (16wks)	85	17-May-23 A	22-Sep-23 A		0	100%
Switchboard (CSF-879)		219	04-Jun-22 A	31-Oct-23 A			100%
ELV-VC1040	Material Submission - Switchboard	22	04-Jun-22 A	04-Jul-22 A		0	100%
ELV-VC1050	Switchboard - 1st round comment by PM & review	12	05-Jul-22 A	19-Jul-22 A		0	100%
ELV-VC1060	Switchboard - 2nd submission to PM & review	14	29-Aug-22 A	13-Sep-22 A		0	100%
ELV-VC1065	Switchboard - 3rd submission to PM & approval	10	14-Oct-22 A	26-Oct-22 A		0	100%
ELV-VC1070	Procurement & Delivery of Switchboard (16wks)	85	27-Oct-22 A	31-Oct-23 A		0	100%
ELV		473	19-Sep-22 A	26-Feb-24 A			100%
PABX System (CSF-1086)		473	19-Sep-22 A	26-Feb-24 A			100%
ELE-VC1040	Material Submission - PABX System	20	19-Sep-22 A	18-Oct-22 A		0	100%
ELE-VC1050	PABX System - 1st round comment by PM & review	19	19-Oct-22 A	01-Nov-22 A		0	100%
ELE-VC1060	PABX System - 2nd submission to PM and approval	22	30-Nov-23 A	22-Dec-23 A		0	100%
ELE-VC1070	Procurement & Delivery of - PABX System (10wks)	55	23-Dec-23 A	26-Feb-24 A		0	100%
Lift (CSF-539)		532	14-Jan-22 A	31-May-23 A			100%
LT-VC1030	Material Submission - Lift and Equipment	22	14-Jan-22 A	15-Feb-22 A		0	100%
LT-VC1040	Lift and Equipment - 1st round comment by PM & review	12	16-Feb-22 A	03-Mar-22 A		0	100%
LT-VC1050	Lift and Equipment - 2nd submission to PM & approval	27	01-May-23 A	31-May-23 A		0	100%
LT-VC1060	Procurement & Delivery of - Lift Car and Equipment	117	31-May-23 A	31-May-23 A		0	100%
Sewerage Pumping Station		672	19-Sep-22 A	24-Sep-24 A			100%
PMI Issuance		0	31-Mar-23 A	31-Mar-23 A			0%
SPS-PMI-1000	Confirmation for the Flow Rate of Pump at *SPS* from 1000L/s to 1500L/s	0		31-Mar-23 A		0	100%
BS Shop Drawings Submission (SPS)		494	02-Nov-22 A	06-May-24 A			100%
CSD (CSF 1267)		299	16-Dec-22 A	14-Nov-23 A			100%
CSD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (CSD)	27	16-Dec-22 A	21-Jan-23 A		0	100%
CSD-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	28-Jan-23 A	31-Oct-23 A		0	100%
CSD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	13	01-Nov-23 A	14-Nov-23 A		0	100%
CBWD		56	01-Nov-23 A	16-Dec-23 A			100%
CBW-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (CBWD)	27	01-Nov-23 A	28-Nov-23 A		0	100%
CBW-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	28-Nov-23 A	16-Dec-23 A		0	100%
CBW-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	16-Dec-23 A	16-Dec-23 A		0	100%
Conduit Layout		138	30-Nov-23 A	06-May-24 A			100%
CL-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (Conduit Layout)	27	30-Nov-23 A	29-Dec-23 A		0	100%
CL-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
CL-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
MVAC		138	30-Nov-23 A	06-May-24 A			100%
MVAC-SPS1010	Shop Drawing Preparation and submission for Sewage Pumping Station (MVAC)	27	30-Nov-23 A	29-Dec-23 A		0	100%
MVAC-SPS1020	Sewage Pumping Station - 1st submission to PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
MVAC-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
FS		138	30-Nov-23 A	06-May-24 A			100%
FS-SPS1010	Shop Drawing Preparation and submission for Sewage Pumping Station (FS)	27	30-Nov-23 A	29-Dec-23 A		0	100%
FS-SPS1020	Sewage Pumping Station - 1st submission to PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
FS-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
PD		138	30-Nov-23 A	06-May-24 A			100%
PD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (PD)	27	30-Nov-23 A	29-Dec-23 A		0	100%
PD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
PD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
SPS Design		138	30-Nov-23 A	06-May-24 A			100%
SD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (SPS Design)	27	30-Nov-23 A	29-Dec-23 A		0	100%
SD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
SD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
ELE (CSF-1182)		368	02-Nov-22 A	13-Dec-23 A			100%
ELE-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (Electrical Installation for LV SB)	27	02-Nov-22 A	06-Dec-22 A		0	100%
ELE-SPS1010	Sewage Pumping Station - 1st submission to PM & review	12	07-Dec-22 A	21-Dec-22 A		0	100%
ELE-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	30-Nov-23 A	13-Dec-23 A		0	100%
ELV		138	30-Nov-23 A	06-May-24 A			100%
ELV-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (ELV)	27	30-Nov-23 A	29-Dec-23 A		0	100%
ELV-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	30-Dec-23 A	19-Jan-24 A		0	100%
ELV-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	22-Apr-24 A	06-May-24 A		0	100%
Chemical Dosing System (CSF-1173)		367	03-Nov-22 A	13-Dec-23 A			100%
ELV-SPS1100	Shop Drawing Preparation and submission for Sewage Pumping Station (Chemical Dosing System)	23	03-Nov-22 A	02-Dec-22 A		0	100%
ELV-SPS1110	Sewage Pumping Station - 1st submission to PM & review	14	03-Dec-22 A	21-Dec-22 A		0	100%
ELV-SPS1120	Sewage Pumping Station - 2nd submission to PM & approval	12	30-Nov-23 A	13-Dec-23 A		0	100%
BS Materials Submission & Procurement (SPS)		672	19-Sep-22 A	24-Sep-24 A			100%
Subletting		23	30-Nov-23 A	23-Dec-23 A			100%
SWP-SPS1560	Subletting Procedure for Material Procurement	23	30-Nov-23 A	23-Dec-23 A		0	100%
SWP		672	19-Sep-22 A	24-Sep-24 A			100%
Surge Analysis		53	01-Nov-23 A	28-Dec-23 A			100%
SWP-SPS1400	Preparation and Submission of Surge Analysis Report	53	01-Nov-23 A	28-Dec-23 A		0	100%
Submersible Pump (40wks)		240	18-Apr-23 A	17-Nov-23 A			100%
SWP-SPS1000	Material Submission - Submersible Pump	22	18-Apr-23 A	01-May-23 A		0	100%
SWP-SPS1010	Submersible Pump - PM review, comment and or approval	1	03-May-23 A	03-May-23 A		0	100%
SWP-SPS1030	Procurement & Delivery of Submersible Pump (40wks)	183	03-May-23 A	17-Nov-23 A		0	100%
Motorized Gate Valve,Check Valve and Actuator (36wks)		234	01-Jun-23 A	07-Mar-24 A			100%
SWP-SPS1040	Material Submission - Motorized Gate Valve,Check Valve and Actuator	22	01-Jun-23 A	24-Jun-23 A		0	100%
SWP-SPS1050	Motorized Gate Valve,Check Valve and Actuator - 1st round comment by PM & review	24	24-Jun-23 A	20-Jul-23 A		0	100%
SWP-SPS1060	Motorized Gate Valve,Check Valve and Actuator - 2nd submission to PM & approval	23	20-Jul-23 A	12-Aug-23 A		0	100%
SWP-SPS1070	Procurement & Delivery of Motorized Gate Valve,Check Valve and Actuator (36wks)	188	12-Aug-23 A	07-Mar-24 A		0	100%
Lifting Appliance (36wks)		548	01-Nov-22 A	18-Mar-24 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

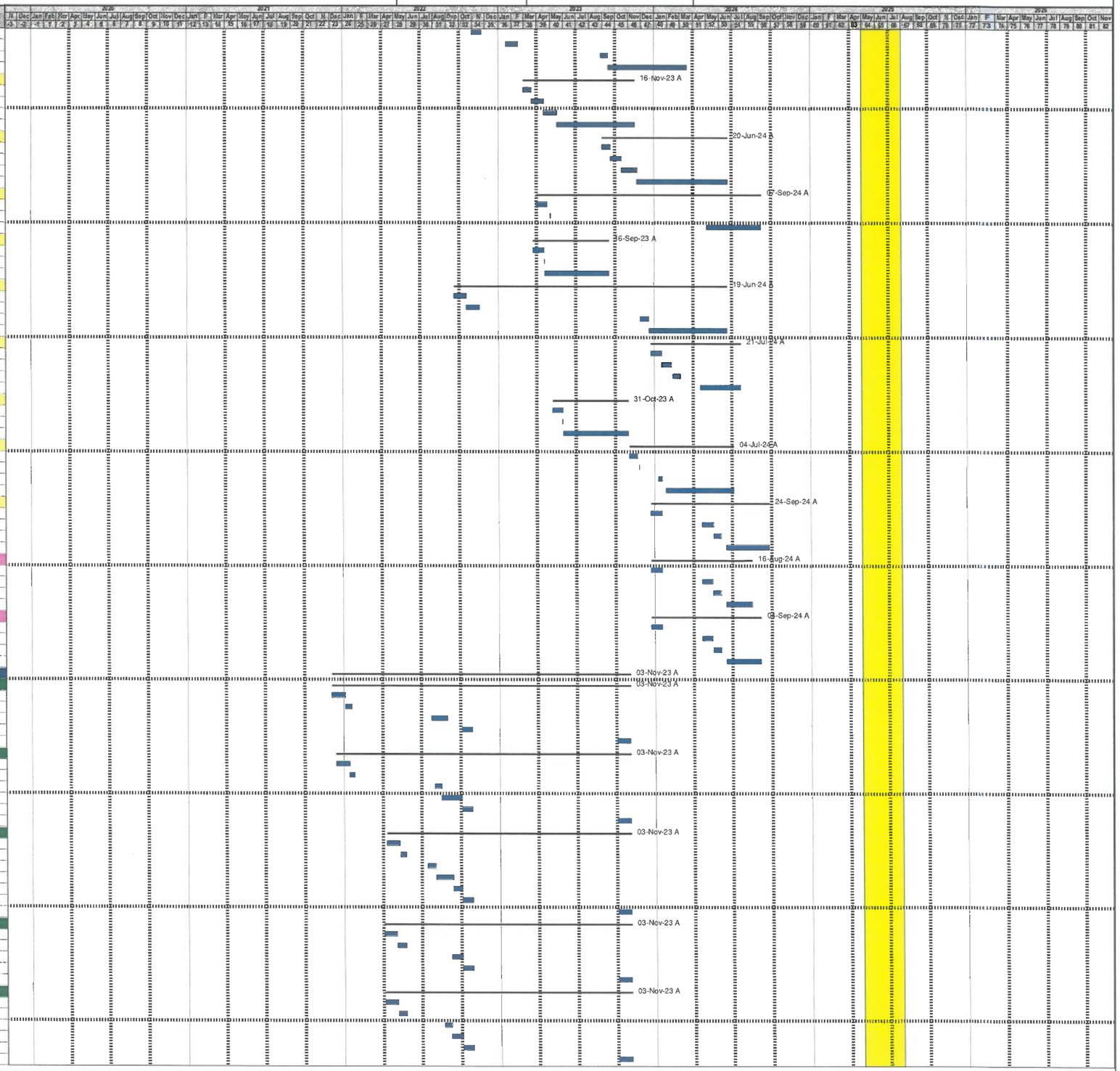
Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: All Activities
Layout: ND/2019/02_MPU_Apr_2025 (DMP)

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
SWP-SPS1160	Material Submission - Lifting Appliance	22	01-Nov-22 A	23-Nov-22 A	0		100%
SWP-SPS1170	Lifting Appliance - 1st round comment by PM & review	24	20-Jan-23 A	17-Feb-23 A	0		100%
SWP-SPS1180	Lifting Appliance - 2nd submission to PM & approval	20	30-Aug-23 A	14-Sep-23 A	0		100%
SWP-SPS1190	Procurement & Delivery of Lifting Appliance (36wks)	167	14-Sep-23 A	18-Mar-24 A	0		100%
Mechanical raked bar screen (36wks)		319	01-Mar-23 A	16-Nov-23 A			100%
SWP-SPS1320	Material Submission - Mechanical raked bar screen	20	01-Mar-23 A	21-Mar-23 A	0		100%
SWP-SPS1330	Mechanical raked bar screen - 1st round comment by PM & review	21	21-Mar-23 A	17-Apr-23 A	0		100%
SWP-SPS1340	Mechanical raked bar screen - 2nd submission to PM & approval	18	17-Apr-23 A	18-May-23 A	0		100%
SWP-SPS1350	Procurement & Delivery of Mechanical raked bar screen (36wks)	167	18-May-23 A	16-Nov-23 A	0		100%
LMCP for Deodourisation System (36wks)		242	01-Sep-23 A	20-Jun-24 A			100%
SWP-SPS1360	Material Submission - LMCP for Deodourisation System	20	01-Sep-23 A	21-Sep-23 A	0		100%
SWP-SPS1370	LMCP for Deodourisation System - 1st round comment by PM & review	21	21-Sep-23 A	16-Oct-23 A	0		100%
SWP-SPS1380	LMCP for Deodourisation System - 2nd submission to PM & approval	18	16-Oct-23 A	22-Nov-23 A	0		100%
SWP-SPS1390	Procurement & Delivery of LMCP for Deodourisation System (36wks)	167	22-Nov-23 A	20-Jun-24 A	0		100%
DI Pipe and fittings (30 wks)		495	01-Apr-23 A	07-Sep-24 A			100%
SWP-SPS1080	Material Submission - DI Pipe and fittings	20	01-Apr-23 A	26-Apr-23 A	0		100%
SWP-SPS1090	DI Pipe and fittings - PM review, comment and or approval	1	03-May-23 A	03-May-23 A	0		100%
SWP-SPS1110	Procurement & Delivery of DI Pipe and fittings (30wks)	140	04-May-24 A	07-Sep-24 A	0		100%
Penstock and Stop Log (30wks)		471	23-Mar-23 A	16-Sep-23 A			100%
SWP-SPS1120	Material Submission - Penstock and Stop Log	20	23-Mar-23 A	17-Apr-23 A	0		100%
SWP-SPS1130	Penstock and Stop Log - PM review, comment and or approval	1	19-Apr-23 A	19-Apr-23 A	0		100%
SWP-SPS1150	Procurement & Delivery of Penstock and Stop Log(30 wks)	140	19-Apr-23 A	16-Sep-23 A	0		100%
Deodourisation System (30wks) (CSF-1094)		554	19-Sep-22 A	19-Jun-24 A			100%
SWP-SPS1200	Material Submission - Deodourisation System	20	19-Sep-22 A	18-Oct-22 A	0		100%
SWP-SPS1210	Deodourisation System - 1st round comment by PM & review	24	19-Oct-22 A	18-Nov-22 A	0		100%
SWP-SPS1220	Deodourisation System - 2nd submission to PM & approval	19	30-Nov-23 A	19-Dec-23 A	0		100%
SWP-SPS1230	Procurement & Delivery of Deodourisation System (30wks)	140	19-Dec-23 A	19-Jun-24 A	0		100%
Odour Ductwork (16wks)		200	23-Dec-23 A	21-Jul-24 A			100%
SWP-SPS1240	Material Submission - Odour Ductwork	20	23-Dec-23 A	17-Jan-24 A	0		100%
SWP-SPS1250	Odour Ductwork - 1st round comment by PM & review	21	18-Jan-24 A	09-Feb-24 A	0		100%
SWP-SPS1260	Odour Ductwork - 2nd submission to PM & approval	17	14-Feb-24 A	02-Mar-24 A	0		100%
SWP-SPS1270	Procurement & Delivery of Odour Ductwork (16wks)	100	19-Apr-24 A	21-Jul-24 A	16		100%
Sensors and Instruments (30wks)		212	08-May-23 A	31-Oct-23 A			100%
SWP-SPS1280	Material Submission - Sensors and Instruments	20	08-May-23 A	31-May-23 A	0		100%
SWP-SPS1290	Sensors and Instruments - PM review, comment and or approval	1	31-May-23 A	31-May-23 A	0		100%
SWP-SPS1310	Procurement & Delivery of Sensors and Instruments (30wks)	140	01-Jun-23 A	31-Oct-23 A	0		100%
Chemical Dosing System (30wks)		169	03-Nov-23 A	04-Jul-24 A			100%
SWP-SPS1520	Material Submission - Chemical Dosing System	20	03-Nov-23 A	23-Nov-23 A	0		100%
SWP-SPS1530	Chemical Dosing System - 1st round comment by PM & review	1	27-Nov-23 A	27-Nov-23 A	0		100%
SWP-SPS1540	Chemical Dosing System - 2nd submission to PM & approval	17	10-Jan-24 A	19-Jan-24 A	0		100%
SWP-SPS1550	Procurement & Delivery of Chemical Dosing System (30wks)	140	27-Jan-24 A	04-Jul-24 A	0		100%
A-frame (20wks)		245	23-Dec-23 A	24-Sep-24 A			100%
SWP-SPS1440	Material Submission - A-frame	20	23-Dec-23 A	17-Jan-24 A	0		100%
SWP-SPS1450	A-frame - 1st round comment by PM & review	24	22-Apr-24 A	18-May-24 A	0		100%
SWP-SPS1460	A-frame - 2nd submission to PM & approval	17	18-May-24 A	05-Jun-24 A	0		100%
SWP-SPS1470	Procurement & Delivery of A-frame (20wks)	92	17-Jun-24 A	24-Sep-24 A	0		100%
MVAC (12wks)		309	23-Dec-23 A	16-Aug-24 A			100%
MVAC-SPS1040	Material Submission - AC Unit spilit type	20	23-Dec-23 A	17-Jan-24 A	0		100%
MVAC-SPS1050	AC Unit spilit type - 1st round comment by PM & review	22	22-Apr-24 A	16-May-24 A	0		100%
MVAC-SPS1060	AC Unit spilit type - 2nd submission to PM & approval	17	17-May-24 A	04-Jun-24 A	0		100%
MVAC-SPS1070	Procurement & Delivery of AC Unit spilit type (12wks)	57	17-Jun-24 A	16-Aug-24 A	0		100%
ELV (16wks)		228	23-Dec-23 A	04-Sep-24 A			100%
ELV-SPS1060	Material Submission - SCADA	20	23-Dec-23 A	17-Jan-24 A	0		100%
ELV-SPS1070	SCADA - 1st round comment by PM & review	22	22-Apr-24 A	16-May-24 A	0		100%
ELV-SPS1080	SCADA - 2nd submission to PM & approval	17	17-May-24 A	04-Jun-24 A	0		100%
ELV-SPS1090	Procurement & Delivery of SCADA (16wks)	76	17-Jun-24 A	04-Sep-24 A	0		100%
Footbridge FK2 Road lighting		630	03-Dec-21 A	03-Nov-23 A			100%
Electrical schematic (CSF-445)		630	03-Dec-21 A	03-Nov-23 A			100%
RD-ES1000	Preparation and submission of Footbridge Electrical Schematic	27	03-Dec-21 A	04-Jan-22 A	0		100%
RD-ES1010	Footbridge Electrical Schematic - 1st submission to PM & review	13	05-Jan-22 A	19-Jan-22 A	0		100%
RD-ES1020	Footbridge Electrical Schematic - 2nd submission to PM & approval	32	26-Jul-22 A	31-Aug-22 A	0		100%
RD-ES1030	Footbridge Electrical Schematic - 1st submission to HyD	21	05-Oct-22 A	28-Oct-22 A	0		100%
RD-ES1040	Footbridge Electrical Schematic - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A	0		100%
EL System - Electrical and lighting layout (CSF-494)		621	13-Dec-21 A	03-Nov-23 A			100%
RD-EL1000	Preparation of Electrical and lighting layout (PS section 30)	27	13-Dec-21 A	13-Jan-22 A	0		100%
RD-EL1010	Electrical and lighting layout - 1st submission to PM & review	10	14-Jan-22 A	25-Jan-22 A	0		100%
RD-EL1020	Electrical and lighting layout - 2nd submission to PM & review	14	02-Aug-22 A	17-Aug-22 A	0		100%
RD-EL1025	Electrical and lighting layout - 3rd submission to PM & approval	38	18-Aug-22 A	03-Oct-22 A	0		100%
RD-EL1030	Electrical and lighting layout - 1st submission to HyD	30	05-Oct-22 A	28-Oct-22 A	0		100%
RD-EL1040	Electrical and lighting layout - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A	0		100%
Materials Submission (CSF-693)		516	11-Apr-22 A	03-Nov-23 A			100%
RD-MS1000	Preparation and submission of material of footbridge (PS section 30)	26	11-Apr-22 A	11-May-22 A	0		100%
RD-MS1010	Material Submission - 1st round comment by PM	12	12-May-22 A	25-May-22 A	0		100%
RD-MS1020	Material Submission - 2nd submission to PM	17	15-Jul-22 A	03-Aug-22 A	0		100%
RD-MS1025	Material Submission - 3rd submission to PM and comment	40	04-Aug-22 A	13-Sep-22 A	0		100%
RD-MS1027	Material Submission - 4th submission to PM and Approval	15	14-Sep-22 A	03-Oct-22 A	0		100%
RD-MS1030	Material Submission - 1st submission to HyD	21	05-Oct-22 A	28-Oct-22 A	0		100%
RD-MS1040	Material Submission - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A	0		100%
Drawing Submission of Road Lighting Layout (CSF-703)		521	04-Apr-22 A	03-Nov-23 A			100%
RD-RL1000	Preparation & submission of Road Lighting Layout (PS section 30)	24	04-Apr-22 A	03-May-22 A	0		100%
RD-RL1010	Road Lighting Layout - 1st round comment by PM	19	04-May-22 A	25-May-22 A	0		100%
RD-RL1020	Road Lighting Layout - 2nd submission to PM & approval	18	10-Sep-22 A	03-Oct-22 A	0		100%
RD-RL1030	Road Lighting Layout - 1st submission to HyD	21	05-Oct-22 A	29-Oct-22 A	0		100%
RD-RL1040	Road Lighting Layout - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A	0		100%
Lux Simulation Report (CSF-717)		520	06-Apr-22 A	03-Nov-23 A			100%
RD-LUX1000	Preparation and submission of Lux Simulation Report (PS section 30)	26	06-Apr-22 A	06-May-22 A	0		100%
RD-LUX1010	Lux Simulation Report - 1st submission to PM & review	16	07-May-22 A	25-May-22 A	0		100%
RD-LUX1020	Lux Simulation Report - 2nd submission to PM & approval	10	23-Aug-22 A	08-Sep-22 A	0		100%
RD-LUX1025	Lux Simulation Report - 3rd submission to PM & approval	19	09-Sep-22 A	03-Oct-22 A	0		100%
RD-LUX1030	Lux Simulation Report - 1st submission to HyD	21	05-Oct-22 A	28-Oct-22 A	0		100%
RD-LUX1040	Lux Simulation Report - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A	0		100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

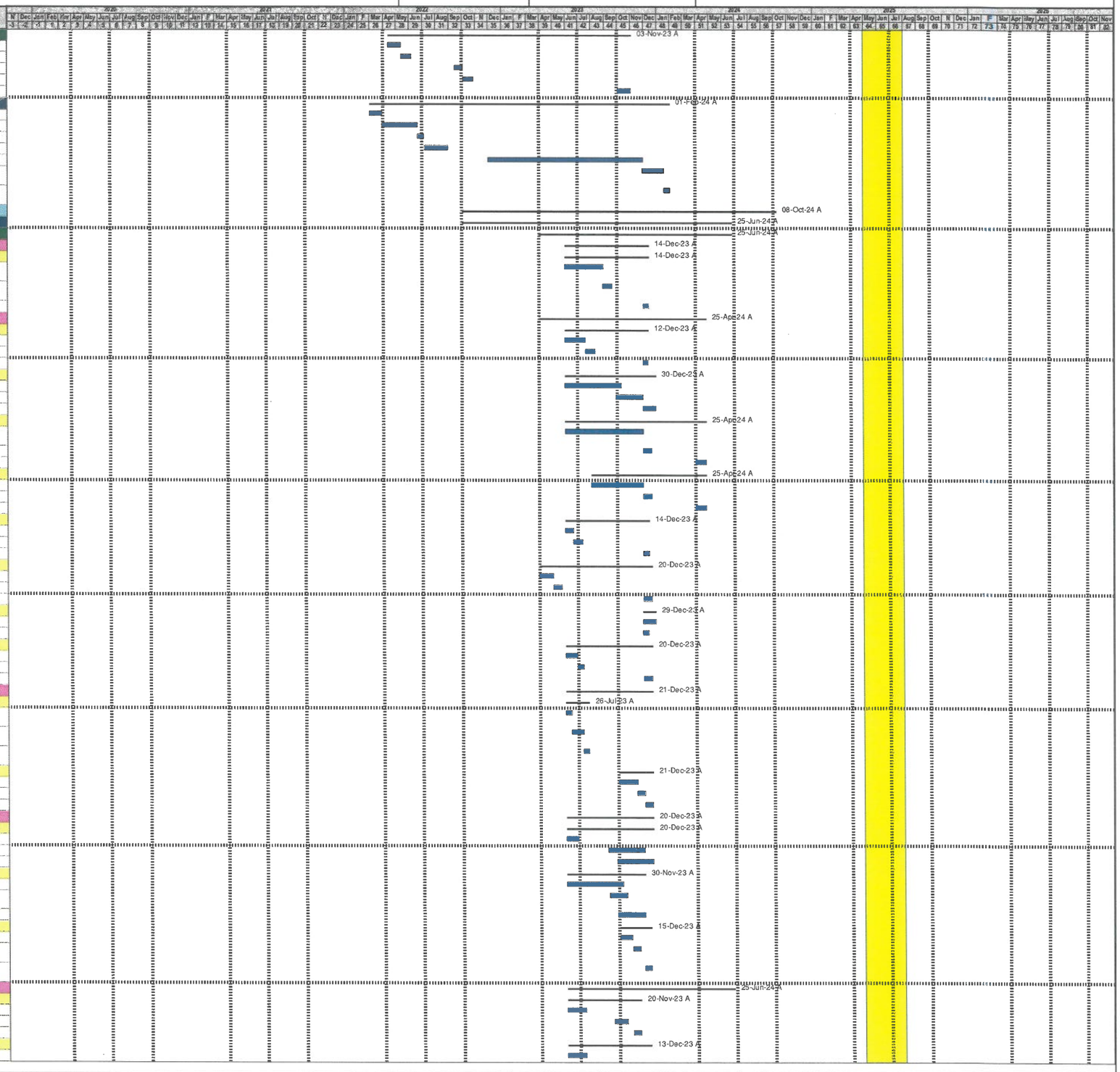
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
Internal Arrangement of PB-01 (CSF-726)		513	13-Apr-22 A	03-Nov-23 A			100%
RD-PB1000	Preparation of Internal Arrangement drawings of PB-01 (PS section 30)	26	13-Apr-22 A	13-May-22 A		0	100%
RD-PB1010	Internal Arrangement drawings of PB-01 - 1st submission to PM & review	19	14-May-22 A	06-Jun-22 A		0	100%
RD-PB1020	Internal Arrangement drawings of PB-01 - 2nd submission to PM & approval	14	15-Sep-22 A	03-Oct-22 A		0	100%
RD-PB1030	Internal Arrangement drawings of PB-01 - 1st submission to HyD	21	05-Oct-22 A	28-Oct-22 A		0	100%
RD-PB1040	Internal Arrangement drawings of PB-01 - Re-submission to HyD and approval	30	03-Oct-23 A	03-Nov-23 A		0	100%
Irrigation System (CSF-634)		665	01-Mar-22 A	01-Feb-24 A			100%
IS-1000	Preparation & submission of Irrigation System drawings (PS section 3)	26	01-Mar-22 A	30-Mar-22 A		0	100%
IS-1010	Irrigation System drawings- 1st submission to PM & review	68	31-Mar-22 A	21-Jun-22 A		0	100%
IS-1020	Irrigation System drawings - 2nd submission to PM & review	12	22-Jun-22 A	06-Jul-22 A		0	100%
IS-1025	Irrigation System drawings - 3rd submission to PM & approval	50	07-Jul-22 A	29-Aug-22 A		0	100%
IS-1027	Irrigation System drawings - 4th submission to PM & approval	50	01-Dec-22 A	01-Dec-23 A		0	100%
IS-1030	Irrigation System drawings - 1st submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD	43	01-Dec-23 A	19-Jan-24 A		0	100%
IS-1040	Irrigation System drawings - Re-submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD and approval	43	19-Jan-24 A	01-Feb-24 A		0	100%
ABWF Submission and Mock Up		664	03-Oct-22 A	08-Oct-24 A			100%
Visitor Centre		553	03-Oct-22 A	25-Jun-24 A			100%
ABWF Shop Drawing / Method Statement / ITP Submission		389	01-Apr-23 A	25-Jun-24 A			100%
Package 1		58	01-Jun-23 A	14-Dec-23 A			100%
Tile Setting Out Drawing / Block Wall Frame Shop Drawings		58	01-Jun-23 A	14-Dec-23 A			100%
ABWF-P1-1190	Shop Drawing / Method Statement / ITP Submission - Tile Setting Out Drawing/Block Wall Frame Shop Drawings	27	01-Jun-23 A	30-Aug-23 A		0	100%
ABWF-P1-1195	Shop Drawing / Method Statement / ITP Submission - 1st round comment by PM & review	19	30-Aug-23 A	20-Sep-23 A		0	100%
ABWF-P1-1200	2nd submission to PM & approval	12	01-Dec-23 A	14-Dec-23 A		0	100%
Package 3		343	01-Apr-23 A	25-Apr-24 A			100%
Suspended Ceiling		132	01-Jun-23 A	12-Dec-23 A			100%
ABWF-P3-1055	Shop Drawing / Method Statement / ITP Submission - Suspended Ceiling	23	01-Jun-23 A	19-Jul-23 A		0	100%
ABWF-P3-1060	Suspended Ceiling - 1st round comment by PM & review	13	20-Jul-23 A	11-Aug-23 A		0	100%
ABWF-P3-1080	Suspended Ceiling - 2nd submission to PM & approval	11	01-Dec-23 A	12-Dec-23 A		0	100%
Raised Flooring		194	01-Jun-23 A	30-Dec-23 A			100%
ABWF-P3-1475	Shop Drawing / Method Statement / ITP Submission - Raised Flooring	27	01-Jun-23 A	11-Oct-23 A		0	100%
ABWF-P3-1480	Raised Flooring - 1st round comment by PM & review	19	28-Sep-23 A	30-Nov-23 A		0	100%
ABWF-P3-1500	Raised Flooring - 2nd submission to PM & approval	26	01-Dec-23 A	30-Dec-23 A		0	100%
Plastic Laminate Wall Panels		210	01-Jun-23 A	25-Apr-24 A			100%
ABWF-P3-1505	Shop Drawing / Method Statement / ITP Submission - Plastic Laminate Wall Panel	27	01-Jun-23 A	30-Nov-23 A		0	100%
ABWF-P3-1510	Plastic Laminate Wall Panel - 1st round comment by PM & review	19	01-Dec-23 A	20-Dec-23 A		0	100%
ABWF-P3-1520	Plastic Laminate Wall Panel - 2nd round comment by PM & approval	19	02-Apr-24 A	25-Apr-24 A			100%
Thermal Insulation Board		239	01-Aug-23 A	25-Apr-24 A			100%
ABWF-P3-1535	Shop Drawing / Method Statement / ITP Submission - Thermal Insulation Board	27	01-Aug-23 A	30-Nov-23 A		0	100%
ABWF-P3-1540	Thermal insulation Board - 1st round comment by PM & review	19	01-Dec-23 A	20-Dec-23 A		0	100%
ABWF-P3-1560	Thermal insulation Board - 2nd submission to PM & approval	19	02-Apr-24 A	25-Apr-24 A		0	100%
Glass Wall		134	01-Jun-23 A	14-Dec-23 A			100%
ABWF-P3-1565	Shop Drawing / Method Statement / ITP Submission - Glass Wall	19	01-Jun-23 A	20-Jun-23 A		0	100%
ABWF-P3-1570	Glass Wall - 1st round comment by PM & review	19	20-Jun-23 A	12-Jul-23 A		0	100%
ABWF-P3-1590	Glass Wall - 2nd submission to PM & approval	12	01-Dec-23 A	14-Dec-23 A		0	100%
Movable Partition		63	01-Apr-23 A	20-Dec-23 A			100%
ABWF-P3-1595	Shop Drawing / Method Statement / ITP Submission - Movable Partition	27	01-Apr-23 A	04-May-23 A		0	100%
ABWF-P3-1600	Movable Partition - 1st round comment by PM & review	19	04-May-23 A	23-May-23 A		0	100%
ABWF-P3-1620	Movable Partition - 2nd submission to PM & approval	19	01-Dec-23 A	20-Dec-23 A		0	100%
Timber Deck		45	30-Nov-23 A	29-Dec-23 A			100%
ABWF-P3-1655	Shop Drawing / Method Statement / ITP Submission - Timber Deck	27	30-Nov-23 A	29-Dec-23 A		0	100%
ABWF-P3-1660	Timber Deck - 1st round comment by PM & approval	19	30-Nov-23 A	12-Dec-23 A		0	100%
Roof Hatch		56	01-Jun-23 A	20-Dec-23 A			100%
ABWF-P3-1698	Shop Drawing / Method Statement / ITP Submission - Roof Hatch	27	01-Jun-23 A	29-Jun-23 A		0	100%
ABWF-P3-1700	Roof Hatch - 1st round comment by PM & review	13	29-Jun-23 A	13-Jul-23 A		0	100%
ABWF-P3-1720	Roof Hatch - 2nd submission to PM & approval	19	01-Dec-23 A	20-Dec-23 A		0	100%
Package 4		194	01-Jun-23 A	21-Dec-23 A			100%
Timber Door		50	01-Jun-23 A	26-Jul-23 A			100%
ABWF-P1-1090	Shop Drawing / Method Statement / ITP Submission - Timber Door and Ironmongeries - 1st round comment by PM & review	12	01-Jun-23 A	14-Jun-23 A		0	100%
ABWF-P4-1085	Shop Drawing / Method Statement / ITP Submission- Timber Door and Ironmongeries	27	14-Jun-23 A	13-Jul-23 A		0	100%
ABWF-P4-1110	Shop Drawing / Method Statement / ITP Submission - Timber Door and Ironmongeries - 2nd submission to PM & approval	12	13-Jul-23 A	26-Jul-23 A		0	100%
Fitting & Fixtures		42	02-Oct-23 A	21-Dec-23 A			100%
ABWF-P4-1625	Shop Drawing / Method Statement / ITP Submission - Fitting & Fixture	27	02-Oct-23 A	14-Nov-23 A		0	100%
ABWF-P4-1630	Fitting & Fixture - 1st round comment by PM & review	19	14-Nov-23 A	02-Dec-23 A		0	100%
ABWF-P4-1650	Fitting & Fixture - 2nd submission to PM & approval	19	02-Dec-23 A	21-Dec-23 A		0	100%
Package 5		183	01-Jun-23 A	20-Dec-23 A			100%
Window		123	01-Jun-23 A	20-Dec-23 A			100%
ABWF-P5-1145	Shop Drawing / Method Statement / ITP Submission - Window	13	01-Jun-23 A	29-Jun-23 A		0	100%
ABWF-P5-1150	Window - 1st round comment by PM & review	12	06-Sep-23 A	30-Nov-23 A		0	100%
ABWF-P5-1170	Window - 2nd submission to PM & approval	12	27-Sep-23 A	20-Dec-23 A		0	100%
Louvre		120	01-Jun-23 A	30-Nov-23 A			100%
ABWF-P5-1025	Shop Drawing / Method Statement / ITP Submission - Louvre	18	01-Jun-23 A	11-Oct-23 A		0	100%
ABWF-P5-1030	Shop Drawing / Method Statement / ITP Submission - Louvre - 1st round comment by PM & review	18	09-Sep-23 A	20-Oct-23 A		0	100%
ABWF-P5-1050	Shop Drawing Submission - Louvre - 2nd submission to PM & approval	9	28-Sep-23 A	30-Nov-23 A		0	100%
Aluminium Grilles		70	03-Oct-23 A	15-Dec-23 A			100%
ABWF-P5-1115	Shop Drawing / Method Statement / ITP Submission- Aluminium Grilles	27	03-Oct-23 A	31-Oct-23 A		0	100%
ABWF-P5-1120	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles - 1st round comment by PM & review	19	01-Nov-23 A	20-Nov-23 A		0	100%
ABWF-P5-1140	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles 2nd submission to PM & approval	15	30-Nov-23 A	15-Dec-23 A		0	100%
Package 6		337	01-Jun-23 A	25-Jun-24 A			100%
Fence / Handrail / Parapet		147	01-Jun-23 A	20-Nov-23 A			100%
ABWF-P6-1180	Shop Drawing / Method Statement / ITP Submission - Fence / Handrail / Parapet	27	01-Jun-23 A	15-Jul-23 A		0	100%
ABWF-P6-1190	Fence / Handrail / Parapet - 1st round comment by PM & review	19	19-Sep-23 A	19-Oct-23 A		0	100%
ABWF-P6-1200	Fence / Handrail / Parapet - 2nd submission to PM & approval	19	01-Nov-23 A	20-Nov-23 A		0	100%
Skylight		117	01-Jun-23 A	13-Dec-23 A			100%
ABWF-P3-1000	Shop Drawing / Method Statement / ITP Submission - Skylight	16	01-Jun-23 A	15-Jul-23 A		0	100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

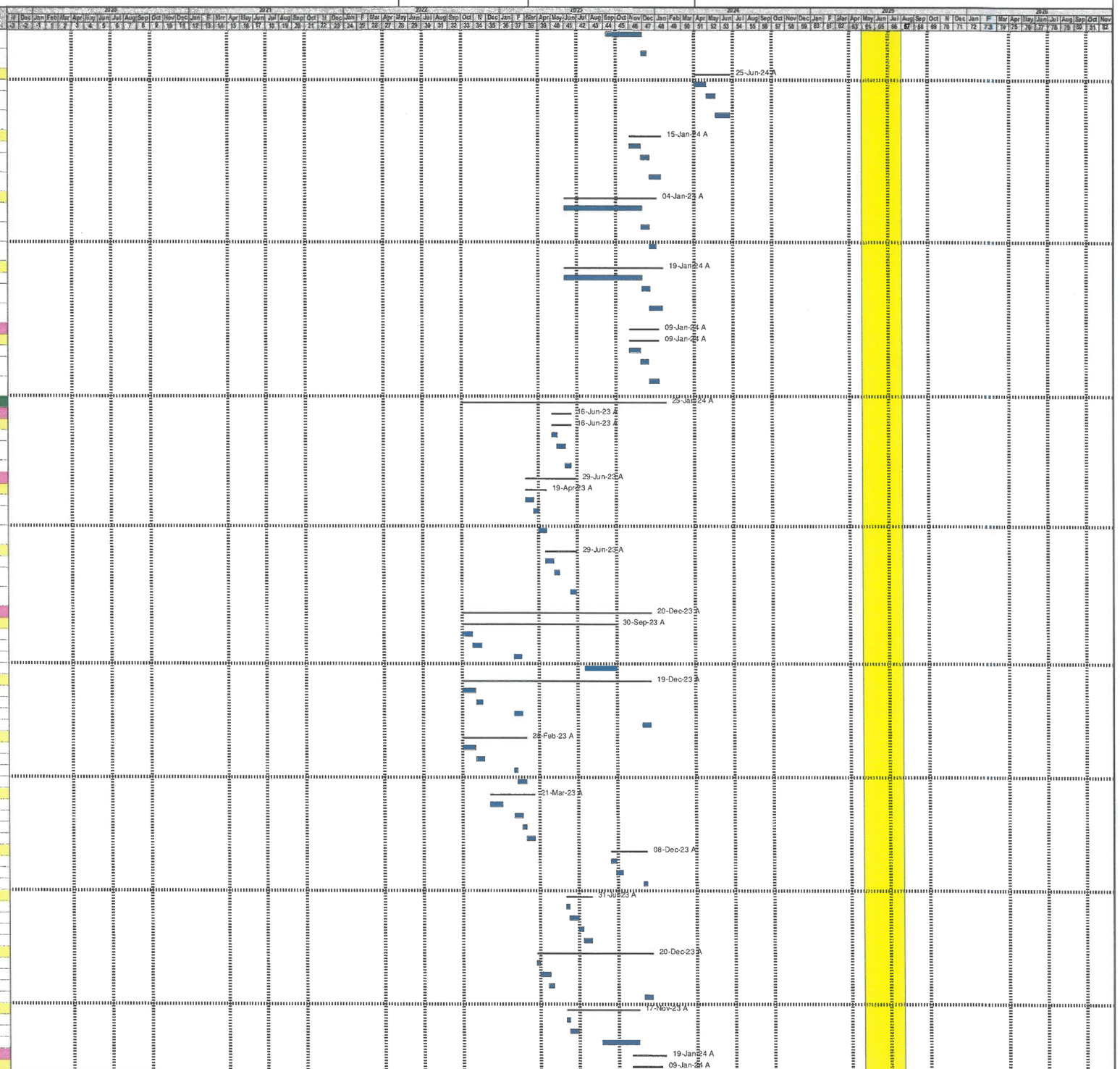
Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: All Activities
Layout: ND/2019/02_MPU_Apr_2025 (DMP)

Activity ID	Activity Name	Duration	Start	Finish	Total Float	RFA	Duration % Complete
ABWF-P3-1010	Shop Drawing / Method Statement / ITP Submission - Skylight - 1st round comment by PM & review	12	08-Sep-23 A	30-Nov-23 A		0	100%
ABWF-P3-1020	Shop Drawing / Method Statement / ITP Submission - Skylight - 2nd submission to PM & approval	12	30-Nov-23 A	13-Dec-23 A		0	100%
Roller Shutters		62	02-Apr-24 A	25-Jun-24 A			100%
ABWF-P3-1210	Shop Drawing / Method Statement / ITP Submission - Shutter	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-P3-1220	Shop Drawing / Method Statement / ITP Submission - Shutter - 1st round comment by PM & review	19	30-Apr-24 A	21-May-24 A		0	100%
ABWF-P3-1230	Shop Drawing / Method Statement / ITP Submission - Shutter - 2nd submission to PM & approval	19	21-May-24 A	25-Jun-24 A		0	100%
Fall Arrest system		65	01-Nov-23 A	15-Jan-24 A			100%
ABWF-P3-1240	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System	27	01-Nov-23 A	28-Nov-23 A		0	100%
ABWF-P3-1250	Shop Drawing / Method Statement / ITP Submission - 1st round comment by PM & review	19	28-Nov-23 A	19-Dec-23 A		0	100%
ABWF-P3-1260	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System - 2nd submission to PM & approval	19	19-Dec-23 A	15-Jan-24 A		0	100%
Steel Doors		124	01-Jun-23 A	04-Jan-24 A			100%
ABWF-P3-1325	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries	18	01-Jun-23 A	30-Nov-23 A		0	100%
ABWF-P3-1330	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 1st round comment by PM & review	19	30-Nov-23 A	19-Dec-23 A		0	100%
ABWF-P3-1350	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 2nd submission to PM & approval	12	19-Dec-23 A	04-Jan-24 A		0	100%
Sundry Metal Works (Covers / Cat Ladder / Steel Staircase)		140	01-Jun-23 A	19-Jan-24 A			100%
ABWF-P4-1000	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works	27	01-Jun-23 A	30-Nov-23 A		0	100%
ABWF-P4-1010	Shop Drawing / Method Statement / ITP Submission- Sundry Metal Works - 1st round comment by PM & review	19	01-Dec-23 A	20-Dec-23 A		0	100%
ABWF-P4-1020	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works - 2nd submission to PM & approval	19	20-Dec-23 A	19-Jan-24 A		0	100%
Pacakge 7		63	01-Nov-23 A	09-Jan-24 A			100%
Toilet Cubicle & Shower Cubicle		63	01-Nov-23 A	09-Jan-24 A			100%
ABWF-P3-1270	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle	27	01-Nov-23 A	28-Nov-23 A		0	100%
ABWF-P3-1280	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 1st round comment by PM & review	19	28-Nov-23 A	16-Dec-23 A		0	100%
ABWF-P3-1290	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 2nd submission to PM & approval	19	18-Dec-23 A	09-Jan-24 A		0	100%
ABWF Material Submission		429	03-Oct-22 A	25-Jan-24 A			100%
Package 1		42	02-May-23 A	16-Jun-23 A			100%
Concrete Block		42	02-May-23 A	16-Jun-23 A			100%
ABWF-VC3110	Material & Sample Submission - Gypsum Block	12	02-May-23 A	15-May-23 A		0	100%
ABWF-VC3120	Material & Sample Submission - Gypsum Block - 1st round comment by PM & review	19	15-May-23 A	03-Jun-23 A		0	100%
ABWF-VC3130	Material & Sample Submission - Gypsum Block - 2nd submission to PM & appro	12	03-Jun-23 A	16-Jun-23 A		0	100%
Package 2		107	01-Mar-23 A	29-Jun-23 A			100%
Internal Wall Painting		43	01-Mar-23 A	19-Apr-23 A			100%
ABWF-VC3000	Material & Sample Submission - Internal Wall Painting	19	01-Mar-23 A	20-Mar-23 A		0	100%
ABWF-VC3010	Material & Sample Submission - Internal Wall Painting - 1st round comment by PM & review	12	20-Mar-23 A	01-Apr-23 A		0	100%
ABWF-VC3020	Material & Sample Submission - Internal Wall Painting - 2nd submission to PM & approval	12	01-Apr-23 A	19-Apr-23 A		0	100%
External Wall Painting		67	17-Apr-23 A	29-Jun-23 A			100%
ABWF-VC3180	Material & Sample Submission - External Wall Painting	19	17-Apr-23 A	06-May-23 A		0	100%
ABWF-VC3190	Material & Sample Submission - External Wall Painting - 1st round comment by PM & review	12	08-May-23 A	20-May-23 A		0	100%
ABWF-VC3200	Material & Sample Submission - External Wall Painting - 2nd submission to PM & approval	12	15-Jun-23 A	29-Jun-23 A		0	100%
Package 3		402	03-Oct-22 A	20-Dec-23 A			100%
External suspended Baffle Ceiling (CSF-1103)		188	03-Oct-22 A	30-Sep-23 A			100%
ABWF-VC3250	Material & Sample Submission - External Suspended Baffle Ceiling	18	03-Oct-22 A	26-Oct-22 A		0	100%
ABWF-VC3260	Material & Sample Submission 1st round comment by PM & review	16	27-Oct-22 A	16-Nov-22 A		0	100%
ABWF-VC3270	Material & Sample Submission, 2nd round comment by PM & approval	18	01-Feb-23 A	18-Feb-23 A		0	100%
ABWF-VC3280	Material Procurement of External Suspended Baffle Ceiling	64	18-Jul-23 A	30-Sep-23 A		0	100%
Movable Folding Partition (CSF-1104)		402	03-Oct-22 A	19-Dec-23 A			100%
ABWF-VC3650	Material & Sample Submission - Movable Folding Partition	23	03-Oct-22 A	02-Nov-22 A		0	100%
ABWF-VC3660	Material & Sample Submission 1st round comment by PM & review	19	03-Nov-22 A	18-Nov-22 A		0	100%
ABWF-VC3670	Material & Sample Submission, 2nd round comment by PM & approval	19	01-Feb-23 A	20-Feb-23 A		0	100%
ABWF-VC3680	Material Procurement of Movable Folding Partition	19	30-Nov-23 A	19-Dec-23 A		0	100%
Internal Acoustic Ceiling (CSF-1105)		134	03-Oct-22 A	28-Feb-23 A			100%
ABWF-VC3290	Material & Sample Submission - Acoustic Ceiling	23	03-Oct-22 A	02-Nov-22 A		0	100%
ABWF-VC3300	Material & Sample Submission 1st round comment by PM & review	15	03-Nov-22 A	22-Nov-22 A		0	100%
ABWF-VC3310	Material & Sample Submission, 2nd round comment by PM & approval	9	01-Feb-23 A	09-Feb-23 A		0	100%
ABWF-VC3320	Material Procurement of Acoustic Ceiling	19	09-Feb-23 A	28-Feb-23 A		0	100%
Raised Floor (CSF-1118)		95	05-Dec-22 A	21-Mar-23 A			100%
ABWF-VC3210	Material & Sample Submission - Raised Floor	22	05-Dec-22 A	04-Jan-23 A		0	100%
ABWF-VC3220	Material & Sample Submission 1st round comment by PM & review	19	01-Feb-23 A	20-Feb-23 A		0	100%
ABWF-VC3230	Material & Sample Submission, 2nd round comment by PM & approval	9	20-Feb-23 A	01-Mar-23 A		0	100%
ABWF-VC3240	Material Procurement of Raised Floor	19	01-Mar-23 A	21-Mar-23 A		0	100%
Glass Wall		79	14-Sep-23 A	08-Dec-23 A			100%
ABWF-VC3330	Material & Sample Submission - Glass Wall	13	14-Sep-23 A	27-Sep-23 A		0	100%
ABWF-VC3340	Material & Sample Submission 1st round comment by PM & review	13	27-Sep-23 A	12-Oct-23 A		0	100%
ABWF-VC3350	Material & Sample Submission, 2nd round comment by PM & approval	9	30-Nov-23 A	08-Dec-23 A		0	100%
Timber Deck		103	01-Jun-23 A	31-Jul-23 A			100%
ABWF-VC3370	Material & Sample Submission - Timber Deck	9	01-Jun-23 A	09-Jun-23 A		0	100%
ABWF-VC3380	Material & Sample Submission - 1st round comment by PM & review	19	09-Jun-23 A	30-Jun-23 A		0	100%
ABWF-VC3390	Material & Sample Submission -, 2nd round comment by PM & approval	9	30-Jun-23 A	11-Jul-23 A		0	100%
ABWF-VC3400	Material Procurement of Timber Deck	19	11-Jul-23 A	31-Jul-23 A		0	100%
Timber Flooring		52	23-Mar-23 A	20-Dec-23 A			100%
ABWF-VC3610	Material & Sample Submission - Timber Flooring	9	23-Mar-23 A	31-Mar-23 A		0	100%
ABWF-VC3620	Material & Sample Submission - 1st round comment by PM & review	19	31-Mar-23 A	24-Apr-23 A		0	100%
ABWF-VC3630	Material & Sample Submission -, 2nd round comment by PM & approval	9	21-Apr-23 A	02-May-23 A		0	100%
ABWF-VC3640	Material Procurement of Timber Deck	19	01-Dec-23 A	20-Dec-23 A		0	100%
Roof Hatch		106	01-Jun-23 A	17-Nov-23 A			100%
ABWF-VC3690	Material & Sample Submission - Roof Hatch	9	01-Jun-23 A	09-Jun-23 A		0	100%
ABWF-VC3700	Material & Sample Submission - 1st round comment by PM & review	19	09-Jun-23 A	29-Jun-23 A		0	100%
ABWF-VC3720	Material Procurement and Delivery of Roof Hatch	80	23-Aug-23 A	17-Nov-23 A		0	100%
Package 4		79	01-Nov-23 A	19-Jan-24 A			100%
Timber Door		59	01-Nov-23 A	09-Jan-24 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

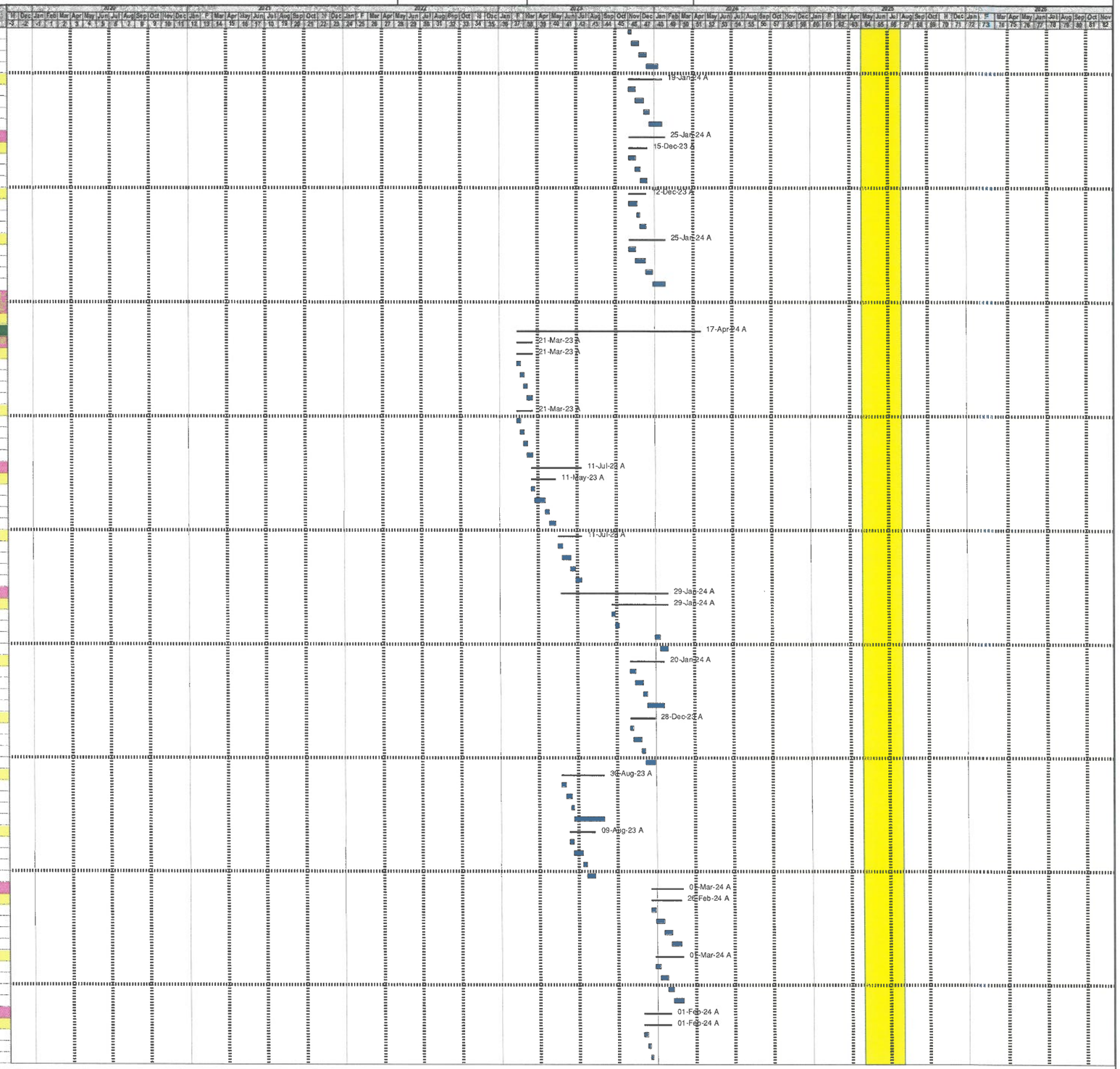
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRS	Duration % Complete
ABWF-VC3410	Material & Sample Submission - Timber Doors	9	01-Nov-23 A	09-Nov-23 A	0		100%
ABWF-VC3420	Material & Sample Submission - 1st round comment by PM & review	18	09-Nov-23 A	27-Nov-23 A	0		100%
ABWF-VC3430	Material & Sample Submission - , 2nd round comment by PM & approval	18	27-Nov-23 A	14-Dec-23 A	0		100%
ABWF-VC3440	Material Procurement of Timber Doors	18	14-Dec-23 A	09-Jan-24 A	0		100%
Fitting and Fixtures		73	01-Nov-23 A	19-Jan-24 A			100%
ABWF-VC3450	Material & Sample Submission - Fitting and Fixtures	18	01-Nov-23 A	18-Nov-23 A	0		100%
ABWF-VC3460	Material & Sample Submission - 1st round comment by PM & review	19	18-Nov-23 A	07-Dec-23 A	0		100%
ABWF-VC3470	Material & Sample Submission - , 2nd round comment by PM & approval	12	07-Dec-23 A	20-Dec-23 A	0		100%
ABWF-VC3480	Material Procurement of - Fitting and Fixtures	27	20-Dec-23 A	19-Jan-24 A	0		100%
Package 5		77	01-Nov-23 A	25-Jan-24 A			100%
Windows		43	01-Nov-23 A	15-Dec-23 A			100%
ABWF-VC3530	Material & Sample Submission - Window	18	01-Nov-23 A	18-Nov-23 A	0		100%
ABWF-VC3540	Material & Sample Submission - 1st round comment by PM & review	11	18-Nov-23 A	29-Nov-23 A	0		100%
ABWF-VC3550	Material & Sample Submission -, 2nd round comment by PM & approval	16	29-Nov-23 A	15-Dec-23 A	0		100%
Lourves		18	01-Nov-23 A	12-Dec-23 A			100%
ABWF-VC3490	Material & Sample Submission - Lourves	16	01-Nov-23 A	22-Nov-23 A	0		100%
ABWF-VC3510	Material & Sample Submission, comment by PM & approval	7	22-Nov-23 A	28-Nov-23 A	0		100%
ABWF-VC3520	Material Procurement of Lourves	12	28-Nov-23 A	12-Dec-23 A	0		100%
Alumninum Grilles		71	01-Nov-23 A	25-Jan-24 A			100%
ABWF-VC3570	Material & Sample Submission - Aluminium Grilles	22	01-Nov-23 A	18-Nov-23 A	0		100%
ABWF-VC3580	Material & Sample Submission 1st round comment by PM & review	27	18-Nov-23 A	11-Dec-23 A	0		100%
ABWF-VC3590	Material & Sample Submission , 2nd round comment by PM & approval	19	11-Dec-23 A	27-Dec-23 A	0		100%
ABWF-VC3600	Material Procurement of Window / Lourves	19	27-Dec-23 A	25-Jan-24 A	0		100%
Package 6		0			0		0%
Package 7		0			0		0%
Toilet Cubicle & Shower Cubicle		0			0		0%
Mock Up		348	11-Feb-23 A	17-Apr-24 A			100%
Package 1		36	11-Feb-23 A	21-Mar-23 A			100%
Plastering / Tile Adhesive		36	11-Feb-23 A	21-Mar-23 A			100%
ABWF-VC1000	Fabrication of Mock Up - Plastering / Tile Adhesive	9	11-Feb-23 A	20-Feb-23 A	0		100%
ABWF-VC1010	Mock Up 1st round comment by PM & review	9	20-Feb-23 A	28-Feb-23 A	0		100%
ABWF-VC1020	Mock Up modification, 2nd round comment by PM & approval	9	28-Feb-23 A	08-Mar-23 A	0		100%
ABWF-VC1030	Material Procurement of Plastering material / Tile Adhesive	12	08-Mar-23 A	21-Mar-23 A	0		100%
Internal tiling works		36	11-Feb-23 A	21-Mar-23 A			100%
ABWF-VC1160	Fabrication of Mock Up - Internal tiling works	9	11-Feb-23 A	20-Feb-23 A	0		100%
ABWF-VC1170	Mock Up 1st round comment by PM & review	9	20-Feb-23 A	28-Feb-23 A	0		100%
ABWF-VC1180	Mock Up modification, 2nd round comment by PM & approval	9	28-Feb-23 A	08-Mar-23 A	0		100%
ABWF-VC1190	Material Procurement of Internal tiling works	12	08-Mar-23 A	21-Mar-23 A	0		100%
Package 2		100	17-Mar-23 A	11-Jul-23 A			100%
Internal Wall Painting		48	17-Mar-23 A	11-May-23 A			100%
ABWF-VC1960	Fabrication of Mock Up - Internal Wall Painting	9	17-Mar-23 A	25-Mar-23 A	0		100%
ABWF-VC1970	Mock Up 1st round comment by PM & review	19	25-Mar-23 A	18-Apr-23 A	0		100%
ABWF-VC1980	Mock Up modification, 2nd round comment by PM & approval	9	18-Apr-23 A	27-Apr-23 A	0		100%
ABWF-VC1990	Material Procurement for Internal Wall Painting	12	27-Apr-23 A	11-May-23 A	0		100%
External Wall Painting		48	17-May-23 A	11-Jul-23 A			100%
ABWF-VC3140	Fabrication of Mock Up - External Wall Painting	9	17-May-23 A	27-May-23 A	0		100%
ABWF-VC3150	Mock Up 1st round comment by PM & review	19	27-May-23 A	15-Jun-23 A	0		100%
ABWF-VC3160	Mock Up modification, 2nd round comment by PM & approval	9	15-Jun-23 A	26-Jun-23 A	0		100%
ABWF-VC3170	Material Procurement for External Wall Painting	12	26-Jun-23 A	11-Jul-23 A	0		100%
Package 3		230	23-May-23 A	29-Jan-24 A			100%
External suspended Baffle Ceiling		64	20-Sep-23 A	29-Jan-24 A			100%
ABWF-VC1360	Fabrication of Mock Up - External Suspended Baffle Ceiling	9	20-Sep-23 A	28-Sep-23 A	0		100%
ABWF-VC1370	Mock Up 1st round comment by PM & review	7	28-Sep-23 A	07-Oct-23 A	0		100%
ABWF-VC1380	Mock Up modification, 2nd round comment by PM & approval	11	30-Dec-23 A	11-Jan-24 A	0		100%
ABWF-VC1390	Material Procurement of External Suspended Baffle Ceiling	18	11-Jan-24 A	29-Jan-24 A	0		100%
Internal Acoustic Ceiling		56	01-Nov-23 A	20-Jan-24 A			100%
ABWF-VC1400	Fabrication of Mock Up - Acoustic Ceiling	13	01-Nov-23 A	14-Nov-23 A	0		100%
ABWF-VC1410	Mock Up 1st round comment by PM & review	19	14-Nov-23 A	02-Dec-23 A	0		100%
ABWF-VC1420	Mock Up modification, 2nd round comment by PM & approval	9	02-Dec-23 A	11-Dec-23 A	0		100%
ABWF-VC1430	Material Procurement of Acoustic Ceiling	19	11-Dec-23 A	20-Jan-24 A	0		100%
Raised Floor		53	01-Nov-23 A	28-Dec-23 A			100%
ABWF-VC1080	Fabrication of Mock Up - Raised Floor	9	01-Nov-23 A	09-Nov-23 A	0		100%
ABWF-VC1090	Mock Up 1st round comment by PM & review	19	09-Nov-23 A	28-Nov-23 A	0		100%
ABWF-VC1100	Mock Up modification, 2nd round comment by PM & approval	9	28-Nov-23 A	06-Dec-23 A	0		100%
ABWF-VC1110	Material Procurement of Raised Floor	19	07-Dec-23 A	28-Dec-23 A	0		100%
Glass Wall		92	23-May-23 A	30-Aug-23 A			100%
ABWF-VC3030	Fabrication of Mock Up - Glass Wall	9	23-May-23 A	02-Jun-23 A	0		100%
ABWF-VC3040	Mock Up 1st round comment by PM & review	12	02-Jun-23 A	15-Jun-23 A	0		100%
ABWF-VC3050	Mock Up modification, 2nd round comment by PM & approval	7	15-Jun-23 A	21-Jun-23 A	0		100%
ABWF-VC3060	Material Procurement of Glass Wall	66	21-Jun-23 A	30-Aug-23 A	0		100%
Timber Deck		212	10-Jun-23 A	09-Aug-23 A			100%
ABWF-VC3070	Fabrication of Mock Up - Timber Deck	9	10-Jun-23 A	19-Jun-23 A	0		100%
ABWF-VC3080	Mock Up 1st round comment by PM & review	19	20-Jun-23 A	11-Jul-23 A	0		100%
ABWF-VC3090	Mock Up modification, 2nd round comment by PM & approval	10	11-Jul-23 A	20-Jul-23 A	0		100%
ABWF-VC3100	Material Procurement of Timber Deck	20	20-Jul-23 A	09-Aug-23 A	0		100%
Package 4		65	18-Dec-23 A	01-Mar-24 A			100%
Timber Door		61	18-Dec-23 A	26-Feb-24 A			100%
ABWF-VC1520	Fabrication of Mock Up - Timber Doors	9	18-Dec-23 A	29-Dec-23 A	0		100%
ABWF-VC1530	Mock Up 1st round comment by PM & review	18	29-Dec-23 A	18-Jan-24 A	0		100%
ABWF-VC1540	Mock Up modification, 2nd round comment by PM & approval	18	18-Jan-24 A	05-Feb-24 A	0		100%
ABWF-VC1550	Material Procurement of Timber Doors	18	05-Feb-24 A	26-Feb-24 A	0		100%
Fitting and Fixtures		57	28-Dec-23 A	01-Mar-24 A			100%
ABWF-VC1640	Fabrication of Mock Up - Fitting and Fixtures	9	28-Dec-23 A	08-Jan-24 A	0		100%
ABWF-VC1650	Mock Up 1st round comment by PM & review	19	08-Jan-24 A	26-Jan-24 A	0		100%
ABWF-VC1660	Mock Up modification, 2nd round comment by PM & approval	12	26-Jan-24 A	08-Feb-24 A	0		100%
ABWF-VC1670	Material Procurement of - Fitting and Fixtures	19	08-Feb-24 A	01-Mar-24 A	0		100%
Package 5		33	30-Nov-23 A	01-Feb-24 A			100%
Windows / Lourves		33	30-Nov-23 A	01-Feb-24 A			100%
ABWF-VC1800	Fabrication of Mock Up - Window / Lourves	9	30-Nov-23 A	08-Dec-23 A	0		100%
ABWF-VC1810	Mock Up 1st round comment by PM & review	6	09-Dec-23 A	15-Dec-23 A	0		100%
ABWF-VC1820	Mock Up modification, 2nd round comment by PM & approval	5	15-Dec-23 A	21-Dec-23 A	0		100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

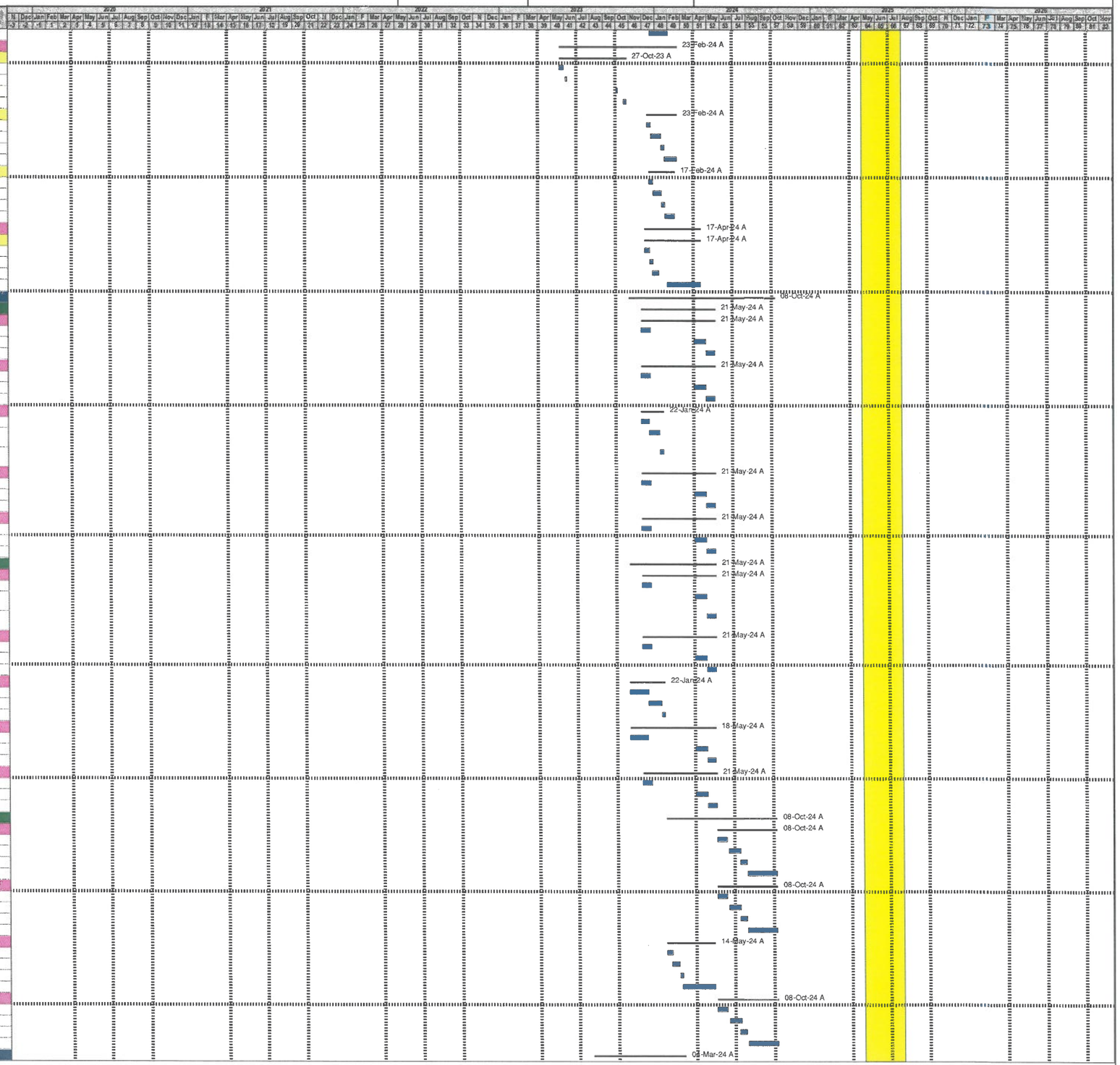
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
ABWF-VC1830	Material Procurement of Window / Louvres	12	21-Dec-23 A	01-Feb-24 A		0	100%
Package 6		252	22-May-23 A	23-Feb-24 A			100%
Skylight		194	22-May-23 A	27-Oct-23 A			100%
ABWF-VC1200	Fabrication of Mock Up - Skylight	9	22-May-23 A	31-May-23 A		0	100%
ABWF-VC1210	Mock Up 1st round comment by PM & review	5	05-Jun-23 A	09-Jun-23 A		0	100%
ABWF-VC1220	Mock Up modification, 2nd round comment by PM & approval	5	03-Oct-23 A	07-Oct-23 A		0	100%
ABWF-VC1230	Material Procurement of Skylight	19	21-Oct-23 A	27-Oct-23 A		0	100%
Fall Arrest System		62	14-Dec-23 A	23-Feb-24 A			100%
ABWF-VC1480	Fabrication of Mock Up - Fall Arrest System	9	14-Dec-23 A	23-Dec-23 A		0	100%
ABWF-VC1490	Mock Up 1st round comment by PM & review	19	23-Dec-23 A	16-Jan-24 A		0	100%
ABWF-VC1500	Mock Up modification, 2nd round comment by PM & approval	9	16-Jan-24 A	24-Jan-24 A		0	100%
ABWF-VC1510	Material Procurement of Fall Arrest System	27	24-Jan-24 A	23-Feb-24 A		0	100%
Timber Wall / Fences		53	18-Dec-23 A	17-Feb-24 A			100%
ABWF-VC1040	Fabrication of Mock Up - Timber Wall	9	18-Dec-23 A	29-Dec-23 A		0	100%
ABWF-VC1050	Mock Up 1st round comment by PM & review	19	29-Dec-23 A	18-Jan-24 A		0	100%
ABWF-VC1060	Mock Up modification, 2nd round comment by PM & approval	9	18-Jan-24 A	26-Jan-24 A		0	100%
ABWF-VC1070	Material Procurement of Timber Wall	19	26-Jan-24 A	17-Feb-24 A		0	100%
Package 7		61	09-Dec-23 A	17-Apr-24 A			100%
Toilet Cubicle & Shower Cubicle		61	09-Dec-23 A	17-Apr-24 A			100%
ABWF-VC2040	Fabrication of Mock Up - Toilet and Shower Cubicles	11	09-Dec-23 A	20-Dec-23 A		0	100%
ABWF-VC2050	Mock Up 1st round comment by PM & review	5	21-Dec-23 A	28-Dec-23 A		0	100%
ABWF-VC2060	Mock Up modification, 2nd round comment by PM & approval	12	28-Dec-23 A	11-Jan-24 A		0	100%
ABWF-VC2070	Material Procurement of Toilet and Shower Cubicles	13	01-Feb-24 A	17-Apr-24 A		0	100%
Sewerage Pumping Station		310	31-Oct-23 A	08-Oct-24 A			100%
ABWF Shop Drawings Submission		152	30-Nov-23 A	21-May-24 A			100%
Recycled Composite Wood		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1040	Shop Drawing Submission - Recycled Composite Wood	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1050	Recycled Composite Wood - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1060	Recycled Composite Wood - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Fences and Gates		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1140	Shop Drawing Submission - Fences and Gates	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1150	Fences and Gates - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1160	Fences and Gates - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Window and Louvers		84	30-Nov-23 A	22-Jan-24 A			100%
ABWF-SPS1170	Shop Drawing Submission - Window and Lourves	22	30-Nov-23 A	18-Dec-23 A		0	100%
ABWF-SPS1180	Shop Drawing Submission Window and Lourves - 1st round comment by PM & review	27	18-Dec-23 A	12-Jan-24 A		0	100%
ABWF-SPS1190	Shop Drawing Submission Window and Lourves - 2nd submission to PM & approval	19	12-Jan-24 A	22-Jan-24 A		0	100%
Claddings		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1200	Shop Drawing Submission - Claddings	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1210	Shop Drawing Submission Claddings - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1220	Shop Drawing Submission Claddings - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Shutters		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1320	Shop Drawing Submission - Shutters	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1330	Shop Drawing Submission Shutters - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1340	Shop Drawing Submission Shutters - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
ABWF Material Submission & Procurement		209	31-Oct-23 A	21-May-24 A			100%
Recycled Composite Wood		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1110	Material Submission - Recycled Composite Wood	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1120	Material Submission - Recycled Composite Wood - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1130	Material Submission - Recycled Composite Wood - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Fences and Gates		180	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1230	Material Submission - Fences and Gates	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1240	Material Submission - Fences and Gates - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1250	Material Submission - Fences and Gates - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Window and Louvres		84	31-Oct-23 A	22-Jan-24 A			100%
ABWF-SPS1260	Material Submission - Windows and Louvres	22	31-Oct-23 A	14-Dec-23 A		0	100%
ABWF-SPS1270	Material Submission - Windows and Louvres - 1st round comment by PM & review	27	14-Dec-23 A	13-Jan-24 A		0	100%
ABWF-SPS1280	Material Submission - Windows and Louvres - 2nd submission to PM & approval	19	15-Jan-24 A	22-Jan-24 A		0	100%
Claddings		178	31-Oct-23 A	18-May-24 A			100%
ABWF-SPS1290	Material Submission - Claddings	22	31-Oct-23 A	13-Dec-23 A		0	100%
ABWF-SPS1300	Material Submission - Claddings - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1310	Material Submission - Claddings - 2nd submission to PM & approval	16	30-Apr-24 A	18-May-24 A		0	100%
Shutters		152	30-Nov-23 A	21-May-24 A			100%
ABWF-SPS1350	Material Submission - FRR Shutters	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-SPS1360	Material Submission - FRR Shutters - 1st round comment by PM & review	27	02-Apr-24 A	30-Apr-24 A		0	100%
ABWF-SPS1370	Material Submission - FRR Shutters - 2nd submission to PM & approval	19	30-Apr-24 A	21-May-24 A		0	100%
Mock Up		233	23-Jan-24 A	08-Oct-24 A			100%
Recycled Composite Wood		130	21-May-24 A	08-Oct-24 A			100%
ABWF-SPS1070	Fabrication of Mock Up - Recycled Composite Wood	22	21-May-24 A	13-Jun-24 A		0	100%
ABWF-SPS1080	Mock Up 1st round comment by PM & review	27	17-Jun-24 A	15-Jul-24 A		0	100%
ABWF-SPS1090	Mock Up modification, 2nd round comment by PM & approval	19	13-Jul-24 A	29-Jul-24 A		0	100%
ABWF-SPS1100	Material Procurement of Recycled Composite Wood	64	31-Jul-24 A	08-Oct-24 A		0	100%
Fences and Gates		130	21-May-24 A	08-Oct-24 A			100%
ABWF-SPS1380	Fabrication of Mock Up - Fences and Gates	22	21-May-24 A	13-Jun-24 A		0	100%
ABWF-SPS1390	Mock Up 1st round comment by PM & review	27	17-Jun-24 A	15-Jul-24 A		0	100%
ABWF-SPS1400	Mock Up modification, 2nd round comment by PM & approval	19	13-Jul-24 A	29-Jul-24 A		0	100%
ABWF-SPS1410	Material Procurement of Fences and Gates	64	31-Jul-24 A	08-Oct-24 A		0	100%
Window and Louvres		98	23-Jan-24 A	14-May-24 A			100%
ABWF-SPS1420	Fabrication of Mock Up - Window and Lourves	22	23-Jan-24 A	05-Feb-24 A		0	100%
ABWF-SPS1430	Mock Up 1st round comment by PM & review	27	05-Feb-24 A	21-Feb-24 A		0	100%
ABWF-SPS1440	Mock Up modification, 2nd round comment by PM & approval	19	23-Feb-24 A	29-Feb-24 A		0	100%
ABWF-SPS1450	Material Procurement of Window and Lourves	64	29-Feb-24 A	14-May-24 A		0	100%
Claddings		132	18-May-24 A	08-Oct-24 A			100%
ABWF-SPS1460	Fabrication of Mock Up - Claddings	22	18-May-24 A	11-Jun-24 A		0	100%
ABWF-SPS1470	Mock Up 1st round comment by PM & review	27	17-Jun-24 A	15-Jul-24 A		0	100%
ABWF-SPS1480	Mock Up modification, 2nd round comment by PM & approval	19	11-Jul-24 A	27-Jul-24 A		0	100%
ABWF-SPS1490	Material Procurement of Claddings	64	31-Jul-24 A	08-Oct-24 A		0	100%
Footbridge FK2		139	01-Aug-23 A	04-Mar-24 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

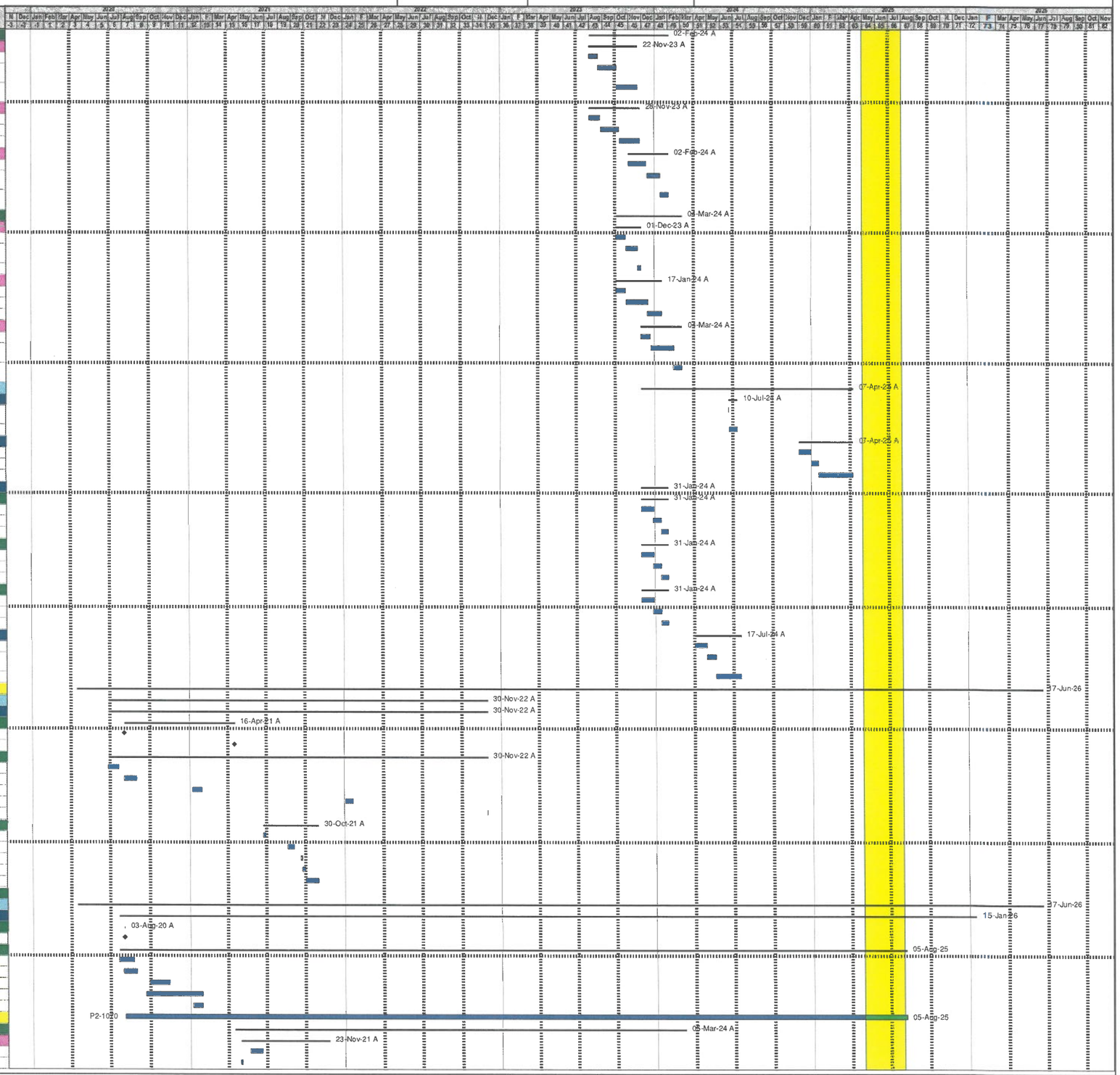
Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: All Activities
Layout: ND/2019/02_MPU_Apr_2025 (DMP)

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
ABWF Shop Drawings Submission		113	01-Aug-23 A	02-Feb-24 A			100%
Footbridge Deck Paving		36	01-Aug-23 A	22-Nov-23 A			100%
ABWF-FK2-1000	Shop Drawing Submission - Footbridge Deck Paving	18	01-Aug-23 A	23-Aug-23 A		0	100%
ABWF-FK2-1010	Shop Drawing Submission - Footbridge Deck Paving - 1st round comment by PM & review	19	23-Aug-23 A	05-Oct-23 A		0	100%
ABWF-FK2-1020	Shop Drawing Submission - Footbridge Deck Paving - 2nd submission to PM & approval	19	06-Oct-23 A	22-Nov-23 A		0	100%
Handrail		48	01-Aug-23 A	28-Nov-23 A			100%
ABWF-FK2-1060	Shop Drawing Submission - Handrail	22	01-Aug-23 A	28-Aug-23 A		0	100%
ABWF-FK2-1070	Shop Drawing Submission - Handrail - 1st round comment by PM & review	27	29-Aug-23 A	11-Oct-23 A		0	100%
ABWF-FK2-1080	Shop Drawing Submission - Handrail - 2nd submission to PM & approval	19	12-Oct-23 A	28-Nov-23 A		0	100%
Ramp Staircase Finishes		86	01-Nov-23 A	02-Feb-24 A			100%
ABWF-FK2-1090	Shop Drawing Submission - Ramp Staircase Finishes	22	01-Nov-23 A	13-Dec-23 A		0	100%
ABWF-FK2-1100	Shop Drawing Submission - Ramp Staircase Finishes - 1st round comment by PM & review	27	14-Dec-23 A	13-Jan-24 A		0	100%
ABWF-FK2-1110	Shop Drawing Submission - Ramp Staircase Finishes - 2nd submission to PM & approval	19	15-Jan-24 A	02-Feb-24 A		0	100%
ABWF Material Submission & Procurement		139	03-Oct-23 A	04-Mar-24 A			100%
Footbridge Deck Paving		57	03-Oct-23 A	01-Dec-23 A			100%
ABWF-FK2-1030	Material Submission - Footbridge Deck Paving	22	03-Oct-23 A	26-Oct-23 A		0	100%
ABWF-FK2-1040	Material Submission - Footbridge Deck Paving - 1st round comment by PM & review	27	27-Oct-23 A	23-Nov-23 A		0	100%
ABWF-FK2-1050	Material Submission - Footbridge Deck Paving - 2nd submission to PM & approval	9	23-Nov-23 A	01-Dec-23 A		0	100%
Handrail		89	03-Oct-23 A	17-Jan-24 A			100%
ABWF-FK2-1120	Material Submission - Handrail	22	03-Oct-23 A	26-Oct-23 A		0	100%
ABWF-FK2-1130	Material Submission - Handrail - 1st round comment by PM & review	27	27-Oct-23 A	16-Dec-23 A		0	100%
ABWF-FK2-1140	Material Submission - Handrail - 2nd submission to PM & approval	19	16-Dec-23 A	17-Jan-24 A		0	100%
Ramp Staircase Finishes		84	30-Nov-23 A	04-Mar-24 A			100%
ABWF-FK2-1150	Material Submission - Ramp Staircase Finishes	22	30-Nov-23 A	22-Dec-23 A		0	100%
ABWF-FK2-1160	Material Submission - Ramp Staircase Finishes - 1st round comment by PM & review	27	23-Dec-23 A	14-Feb-24 A		0	100%
ABWF-FK2-1170	Material Submission - Ramp Staircase Finishes - 2nd submission to PM & approval	19	14-Feb-24 A	04-Mar-24 A		0	100%
Landscape Works Submission		390	30-Nov-23 A	07-Apr-25 A			100%
Landscape Method Statement Submission		16	21-Jun-24 A	10-Jul-24 A			100%
LA-SPS1090	Method Statement of Planting and Soil Mixing - 1st submission to Project Manager [21 June 2024 CSF-2147]	1	21-Jun-24 A	21-Jun-24 A		0	100%
LA-SPS1110	Method Statement of Planting and Soil Mixing - PM review & approval	16	22-Jun-24 A	10-Jul-24 A		0	100%
Landscape Method Statement Submission (Section 4A)		59	02-Dec-24 A	07-Apr-25 A			100%
LA-SPS1120	Method Statement of Establishment Works - 1st submission to Project Manager	25	02-Dec-24 A	30-Dec-24 A		0	100%
LA-SPS1130	Method Statement of Establishment Works - 1st submission to PM & review	17	31-Dec-24 A	17-Jan-25 A		0	100%
LA-SPS1140	Method Statement of Establishment Works - 2nd submission to PM & approval	17	18-Jan-25 A	07-Apr-25 A		0	100%
Landscape Material Submission & Test Report		56	30-Nov-23 A	31-Jan-24 A			100%
Plant Specimen & Origin		56	30-Nov-23 A	31-Jan-24 A			100%
LA-SPS1000	Plant Nursery and Specimen Photos - 1st submission to Project Manager	25	30-Nov-23 A	28-Dec-23 A		0	100%
LA-SPS1010	Plant Nursery and Specimen Photos - 1st submission to PM & review	16	28-Dec-23 A	15-Jan-24 A		0	100%
LA-SPS1020	Plant Nursery and Specimen Photos - 2nd submission to PM & approval	16	15-Jan-24 A	31-Jan-24 A		0	100%
Soil Mix		56	30-Nov-23 A	31-Jan-24 A			100%
LA-SPS1030	Soil Mix Test Report - 1st submission to Project Manager	25	30-Nov-23 A	28-Dec-23 A		0	100%
LA-SPS1040	Soil Mix Test Report - 1st submission to PM & review	16	28-Dec-23 A	15-Jan-24 A		0	100%
LA-SPS1050	Soil Mix Test Report - 2nd submission to PM & approval	16	15-Jan-24 A	31-Jan-24 A		0	100%
Soil Conditioners		56	30-Nov-23 A	31-Jan-24 A			100%
LA-SPS1060	Soil Conditioners Test Report & Samples - 1st submission to Project Manager	25	30-Nov-23 A	28-Dec-23 A		0	100%
LA-SPS1070	Soil Conditioners Test Report & Samples - 1st submission to PM & review	16	28-Dec-23 A	15-Jan-24 A		0	100%
LA-SPS1080	Soil Conditioners Test Report & Samples - 2nd submission to PM & approval	16	15-Jan-24 A	31-Jan-24 A		0	100%
Landscape Design Submission		97	02-Apr-24 A	17-Jul-24 A			100%
LA-SPS1160	Landscape Design Submission for FK2 - Submission to Project Manager	25	02-Apr-24 A	29-Apr-24 A		0	100%
LA-SPS1165	Landscape Design Submission for FK2 - PM review, comment and follow up until approval	19	30-Apr-24 A	21-May-24 A		0	100%
LA-SPS1180	Landscape Design Submission for FK2 - Submission to Govt Dept for approval	53	21-May-24 A	17-Jul-24 A		0	100%
Works		2035	14-Apr-20 A	17-Jun-26	0		81.56%
Works in Section 1		713	26-Jun-20 A	30-Nov-22 A			100%
Portion 1 - Road & Drains		713	26-Jun-20 A	30-Nov-22 A			100%
Site Possession		212	03-Aug-20 A	16-Apr-21 A			100%
P1-1000	Site Possession - Portion 1	0	03-Aug-20 A			0	100%
P1-1005	Site Possession - Additional Working Area from C1 (KT2003)	0	16-Apr-21 A				100%
Pre-construction works		713	26-Jun-20 A	30-Nov-22 A			100%
P1-1010	Utilities Detection in Portion 1	18	26-Jun-20 A	20-Jul-20 A		2	100%
P1-1020	Circulation & Approval of TTAs	12	03-Aug-20 A	31-Aug-20 A		0	100%
P1-1050	Environmental GI & Submission of Lab Report (EGI-9G-01)	19	07-Jan-21 A	30-Jan-21 A		2	100%
P1-1580	Removal of Existing Stormwater Drains / channels next to Dill Corner Garden	16	03-Jan-22 A	20-Jan-22 A		6	100%
P1-1590	Completion of Works at Portion 1	0	30-Nov-22 A	30-Nov-22 A		6	100%
CE-026 Extension of Cycle Track outside Dills Corner Garden		30	23-Jun-21 A	30-Oct-21 A			100%
P1-2000	Tree Felling Works	7	23-Jun-21 A	29-Jun-21 A			100%
P1-2020	Structural works for sand trap	14	20-Aug-21 A	03-Sep-21 A			100%
P1-2030	Installation of Steel Frame	4	20-Sep-21 A	23-Sep-21 A			100%
P1-2040	Laying Anti Skid Layer of Carriageway	7	24-Sep-21 A	30-Sep-21 A			100%
P1-2050	RA Notification of Carriageway open to public	30	01-Oct-21 A	30-Oct-21 A			100%
Utilities and Signage Works		0			0		0%
Works in Section 2		2035	14-Apr-20 A	17-Jun-26	0		81.56%
Portion 2 - Road & Drains		1798	21-Jul-20 A	15-Jan-26	136		86.71%
Site Possession		0	03-Aug-20 A	03-Aug-20 A			0%
P2-1000	Site Possession - Portion 2	0	03-Aug-20 A			0	100%
Pre-construction works		1564	21-Jul-20 A	05-Aug-25	285		94.25%
P2-1010	Utilities Detection in Portion 2	27	21-Jul-20 A	24-Aug-20 A		2	100%
P2-1020	Circulation & Approval of TTAs	19	01-Aug-20 A	31-Aug-20 A		0	100%
P2-1030	Inspection Pit	36	30-Sep-20 A	13-Nov-20 A		4	100%
P2-1050	Environmental GI & Submission of Lab report	19	21-Sep-20 A	30-Jan-21 A		2	100%
P2-1060	Borehole (2nos.), Submission & Approval of GI Report	66	07-Jan-21 A	30-Jan-21 A		4	100%
P2-1070	Tree Protection and Preservation	1564	03-Aug-20 A	05-Aug-25	285	4	94.25%
ELS		918	15-Apr-21 A	05-Mar-24 A			100%
Launching shaft for SMH_KT6003A and FMH_KT1.26A		135	30-Apr-21 A	23-Nov-21 A			100%
P2-8000	Preparation of Works	12	22-May-21 A	19-Jun-21 A		0	100%
P2-8005	UU Detection	4	30-Apr-21 A	03-May-21 A		1	100%



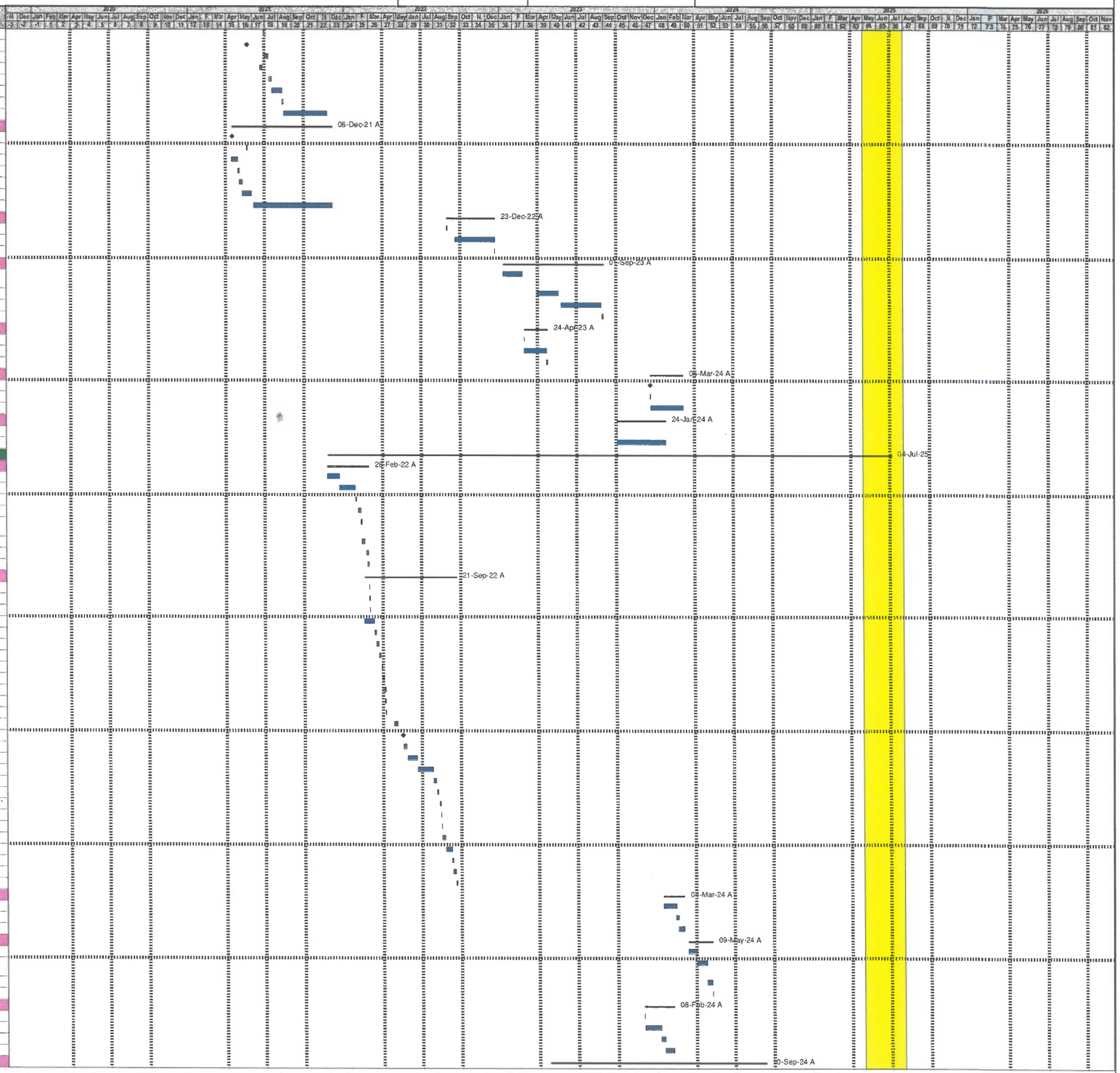
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P2-8010	Inspection Pit	3	29-Jun-21 A	30-Jun-21 A	4		100%
P2-8015	Handover the Works Area from C1	0	21-May-21 A		0		100%
P2-8020	Coordination with UU owner to arrange diversion / abandon	6	30-Jun-21 A	10-Jul-21 A	3		100%
P2-8025	Dismantle of Existing Noise Barriers & Hoarding (Instructed by PM)	6	21-Jun-21 A	26-Jun-21 A	1		100%
P2-8035	Sheetpiling for launching shaft at SMH_KT6003A	7	12-Jul-21 A	17-Jul-21 A	2		100%
P2-8040	Coordination with ND/2019/01 Contractor to divert the Rising Main	19	19-Jul-21 A	12-Aug-21 A	2		100%
P2-8045	Remaining Sheetpiling for launching shaft at SMH_KT6003A	20	12-Aug-21 A	14-Aug-21 A	5		100%
P2-8050	Excavation for Launching Shaft at SMH_KT6003A	78	16-Aug-21 A	23-Nov-21 A	5		100%
Combined Shaft for SMH_KT2003 and FMH_KT1.23		149	15-Apr-21 A	06-Dec-21 A			100%
P2-8055	Handover the Works Area from C1	0	16-Apr-21 A				100%
P2-8060	Set Up TTA at Castle Peak Road Footpath	3	20-May-21 A	22-May-21 A			100%
P2-8065	Preparation Works	13	15-Apr-21 A	29-Apr-21 A			100%
P2-8070	UU Detection	4	30-Apr-21 A	03-May-21 A			100%
P2-8075	Inspection Pit Excavation	5	04-May-21 A	10-May-21 A			100%
P2-8080	Coordination with UU owner for uncharted concrete structure	20	10-May-21 A	31-May-21 A			100%
P2-8085	ELS for Receiving Pit	54	05-Jun-21 A	06-Dec-21 A	7		100%
Launching shaft at FMH_KT1.30A		105	01-Sep-22 A	23-Dec-22 A			100%
P2-3140	Set up works area for tree felling & ELS works	1	01-Sep-22 A	01-Sep-22 A	0		100%
P2-3150	ELS for launching shaft at FMH_KT1.30A	77	21-Sep-22 A	22-Dec-22 A	6		100%
P2-3160	Install decking at KT1.30A	1	23-Dec-22 A	23-Dec-22 A	0		100%
Receiving shaft at FMH_KT1.32A		209	10-Jan-23 A	01-Sep-23 A			100%
P2-7185	Dismantling of existing planter and diversion of utilities with laying of temp pedestrian walkway	29	10-Jan-23 A	25-Feb-23 A	0		100%
P2-7190	Set up TTA at Castle Peak Road Carriageway (westbound)	25	01-Apr-23 A	20-May-23 A	0		100%
P2-7200	ELS for inspection shaft at FMH_KT1.32A	38	27-May-23 A	26-Aug-23 A	6		100%
P2-7210	Install decking at KT1.32A	1	30-Aug-23 A	01-Sep-23 A	0		100%
Combined shaft for SMH_KT6005A & FMH_KT1.33A		47	01-Mar-23 A	24-Apr-23 A			100%
P2-4000	Set up TTA at Castle Peak Road Footpath	1	01-Mar-23 A	01-Mar-23 A	0		100%
P2-4005	ELS of combined pit for SMH_KT6005A & FMH_KT1.33A	38	01-Mar-23 A	22-Apr-23 A	6		100%
P2-4010	Install decking at KT1.33A & release TTA	1	22-Apr-23 A	24-Apr-23 A	0		100%
Combined shaft for SMH_KT6003B & FMH_KT1.27A		267	19-Dec-23 A	05-Mar-24 A			100%
P2-8225	Site Possession (Assume 03-Apr-2023) (Actual 19-Dec-2023)	0		19-Dec-23 A	0		100%
P2-8230	Set up TTA at Castle Peak Road Carriageway	1	20-Dec-23 A	21-Dec-23 A	0		100%
P2-8235	ELS of combined pit for SMH_KT6003B & FMH_KT1.27A [3 layers]	30	21-Dec-23 A	05-Mar-24 A	0		100%
Combined shaft for SMH_KT6004A & FMH_KT1.29A		62	03-Oct-23 A	24-Jan-24 A			100%
P2-3000	Set up TTA at Castle Peak Road Carriageway	1	03-Oct-23 A	03-Oct-23 A	0		100%
P2-3010	ELS of combined pit for SMH_KT6004A & FMH_KT1.29A	34	04-Oct-23 A	24-Jan-24 A	1		100%
Pipe Jacking		1149	24-Nov-21 A	04-Jul-25	315		94.78%
(KT1.26A to KT1.23) (IL: 5.1-5.7mPD) 800mm dia		91	24-Nov-21 A	28-Feb-22 A			100%
P2-8090	Set up Pipe jacking TBM (For DN800 Pipe)	19	24-Nov-21 A	21-Dec-21 A	2		100%
P2-8095	Pipe Jacking from FMH_KT1.26A to FMH_KT1.23 (DN800 Pipe) (110m ~3m/day)	28	22-Dec-21 A	27-Jan-22 A	2		100%
P2-8100	TBM reach the sheet pile at receiving pit	2	28-Jan-22 A	29-Jan-22 A	0		100%
P2-8105	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	04-Feb-22 A	09-Feb-22 A	0		100%
P2-8110	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air test	2	10-Feb-22 A	11-Feb-22 A	0		100%
P2-8115	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	10	12-Feb-22 A	19-Feb-22 A	0		100%
P2-8120	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	23-Feb-22 A	26-Feb-22 A	0		100%
P2-8125	Demolish & removal the hoisting frame at Jacking Pit	3	25-Feb-22 A	28-Feb-22 A	0		100%
(KT6003A to KT2003) (IL: 6.0-6.4mPD) 2100mm dia		195	18-Feb-22 A	21-Sep-22 A			100%
P2-8130	Relocate working platform	1	01-Mar-22 A	01-Mar-22 A	2		100%
P2-8135	Dismantle remaining waling	1	02-Mar-22 A	02-Mar-22 A	0		100%
P2-8140	Handover the site to VTEC	1	03-Mar-22 A	03-Mar-22 A	5		100%
P2-8145	Pipe Jacking set up on hold due to VTEC staffs suffer COVID-19	20	18-Feb-22 A	12-Mar-22 A	5		100%
P2-8150	Setting up 5 tonne hosting frame	2	14-Mar-22 A	16-Mar-22 A	0		100%
P2-8155	Pre-treatment grouting works	3	17-Mar-22 A	22-Mar-22 A	2		100%
P2-8160	Setup guide rail & entrance ring	3	24-Mar-22 A	26-Mar-22 A	0		100%
P2-8160-2	Con't Setup guide rail & entrance ring	3	29-Mar-22 A	31-Mar-22 A	0		100%
P2-8165	Setup working platform	2	01-Apr-22 A	04-Apr-22 A	5		100%
P2-8170	Setup Thrust Wall	6	01-Apr-22 A	07-Apr-22 A	0		100%
P2-8175	Install Slurry Pipe and Power Cable	7	07-Apr-22 A	08-Apr-22 A	0		100%
P2-8180	Dismantle 5 tonnes hoisting frame	1	08-Apr-22 A	09-Apr-22 A	0		100%
P2-8183	Strut Modification of Jacking Pit to suit TBM Set Up	6	28-Apr-22 A	05-May-22 A	0		100%
P2-8185	Target date of deliver 2.1m dia TBM to site	0		18-May-22 A	2		100%
P2-8190	Set Up Pipe Jacking TBM	7	19-May-22 A	26-May-22 A	0		100%
P2-8190-2	Con't Set Up Pipe Jacking TBM	19	28-May-22 A	20-Jun-22 A	0		100%
P2-8195	Pipe Jacking from KT6003A to KT2003 (2.1 dia) (115m ~3m/day)	42	21-Jun-22 A	27-Jul-22 A	5		100%
P2-8200	Pre-treatment grouting at receiving pit, set up exit ring and form opening	5	29-Jul-22 A	03-Aug-22 A	0		100%
P2-8200.2	Pre-treatment grouting at receiving pit, set up exit ring and form opening	3	06-Aug-22 A	08-Aug-22 A	0		100%
P2-8375	Lift Out TBM at receiving pit	1	13-Aug-22 A	13-Aug-22 A	0		100%
P2-8385	Pushing the remaining pipeline to designated location at receiving pit	1	15-Aug-22 A	15-Aug-22 A	0		100%
P2-8395	Demolish and remove slurry pipe, power cable, lubrication pipe	1	16-Aug-22 A	16-Aug-22 A	0		100%
P2-8395.2	Demolish and remove slurry pipe, power cable, lubrication pipe	6	18-Aug-22 A	24-Aug-22 A	0		100%
P2-8405	Lining Welding works	13	26-Aug-22 A	09-Sep-22 A	0		100%
P2-8415	Air Test	2	10-Sep-22 A	12-Sep-22 A	0		100%
P2-8425	Demolish and removal of Guide Rail and Working Platform, breaking thrust wall	5	13-Sep-22 A	17-Sep-22 A	0		100%
P2-8435	Cleaning of Launching pit	3	19-Sep-22 A	21-Sep-22 A	0		100%
(KT1.30A to KT1.32A) (IL: 3.8-3..6mPD) 800mm dia		56	15-Jan-24 A	04-Mar-24 A			100%
P2-3170	Set up and assembly of TBM (0.8m dia.)	34	15-Jan-24 A	14-Feb-24 A	0		100%
P2-3180	Pipe Jacking from FMH_KT1.30A to FMH_KT1.32A (20m, 3m/day)	6	14-Feb-24 A	20-Feb-24 A			100%
P2-3185	Removal of TBM (0.8m dia.) from FMH_KT1.32A	12	20-Feb-24 A	04-Mar-24 A	0		100%
(KT1.29A to KT1.27A) (IL: 4.1-4.6mPD) 800mm dia		49	14-Mar-24 A	09-May-24 A			100%
P2-8205	Set up and Assembly of TBM (0.8m dia.)	34	14-Mar-24 A	01-Apr-24 A	2		100%
P2-8210	Pipe Jacking from FMH_KT1.29A to FMH_KT1.27A (85m, 3m/day) [Commenced 2-Apr-2024]	22	02-Apr-24 A	25-Apr-24 A	1		100%
P2-8215	Dismantling TBM at KT1.27A (0.8m dia.)	11	26-Apr-24 A	08-May-24 A	2		100%
P2-8220	Install decking at KT1.29A & release TTA	1	09-May-24 A	09-May-24 A	2		100%
(KT1.30A to KT1.29A) (IL: 4.1-3.8mPD) 800mm dia		52	01-Dec-23 A	08-Feb-24 A			100%
P2-3070	Set up TTA for drilling from FMH_KT1.29A to FMH_KT1.30A	1	01-Dec-23 A	01-Dec-23 A	0		100%
P2-3080	Set up and assembly of TBM (0.8m dia.)	30	02-Dec-23 A	08-Jan-24 A	2		100%
P2-3090	Pipe Jacking from FMH_KT1.30A to FMH_KT1.29A (30m, 3m/day)	8	09-Jan-24 A	17-Jan-24 A	1		100%
P2-3100	Removal of TBM (1.2m dia.) at FMH_KT1.29A	17	18-Jan-24 A	08-Feb-24 A	0		100%
(KT1.33A to KT1.32A) (IL: 3.6mPD) 1500mm dia		466	24-Apr-23 A	10-Sep-24 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

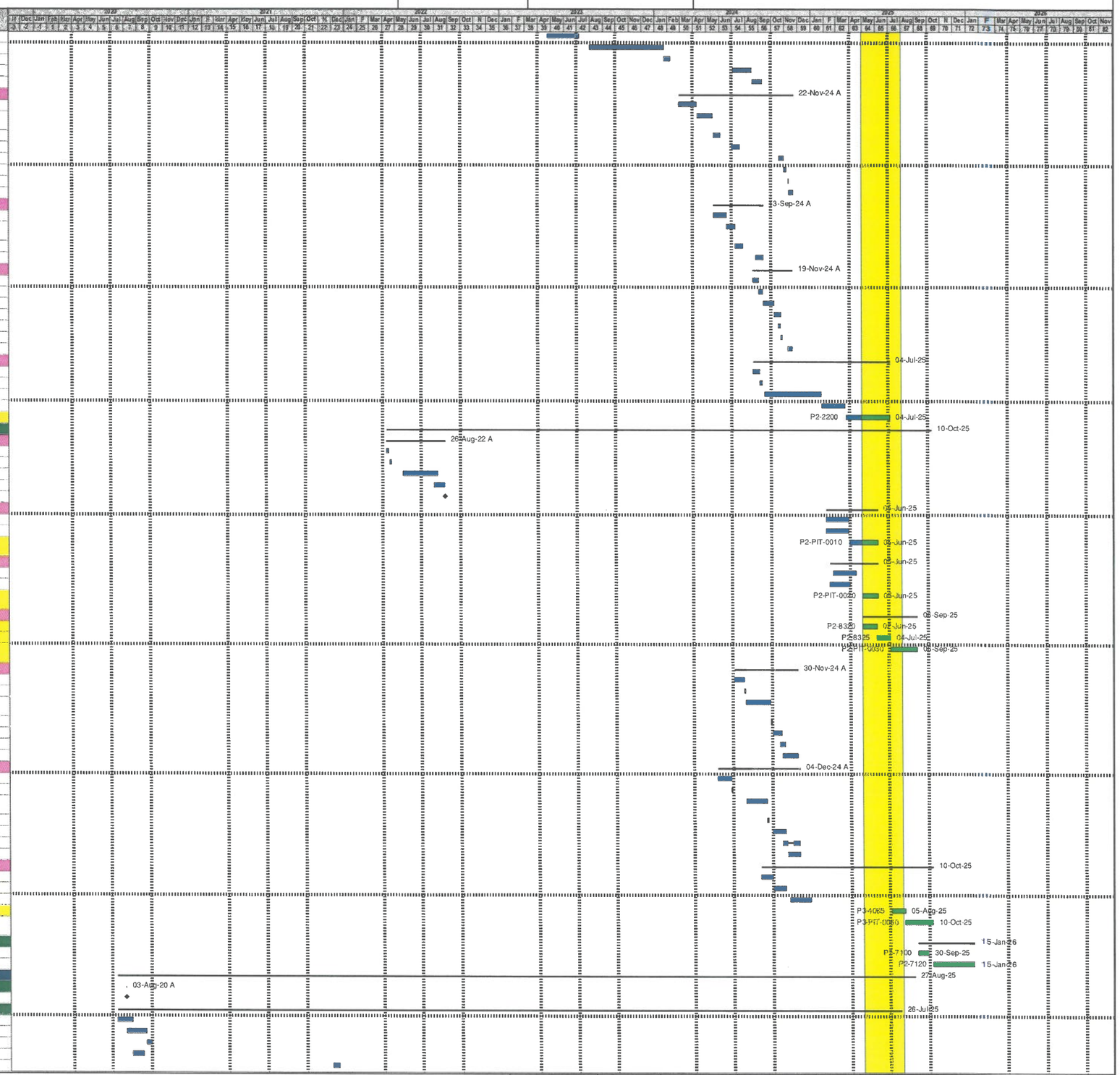
APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P2-4020	Set up and assembly of TBM (1.5m dia.)	34	24-Apr-23 A	06-Jul-23 A		2	100%
P2-4030	Pipe Jacking from FMH_KT1.33A to FMH_KT1.32A (557m, 3m/day)	165	01-Aug-23 A	24-Jan-24 A		1	100%
P2-4040	Removal of TBM (1.5m dia.) at FMH_KT1.32A	24	24-Jan-24 A	08-Feb-24 A			100%
P2-4041	Removal of 3rd layer walings & struts (+5.85mPD) at FMH_KT1.32A	18	04-Jul-24 A	17-Aug-24 A			100%
P2-4042	Removal of 2nd layer walings & struts (+8.0mPD) at FMH_KT1.32A	18	19-Aug-24 A	10-Sep-24 A			100%
(KT6003A to KT6003B) (IL: 6.0-5.7mPD) 2100mm dia		243	29-Feb-24 A	22-Nov-24 A			100%
P2-8260	Set up and Assembly TBM (2.1m dia.) at SMH_KT6003A	27	29-Feb-24 A	11-Apr-24 A		1	100%
P2-8265	Pipe Jacking from SMH_KT6003A to SMH_KT6003B (85m, 3m/day) [Commenced 12-Apr-2024] [Completed 17-May-2024]	24	12-Apr-24 A	17-May-24 A		1	100%
P2-8270	Removal of TBM (2.1m dia.) at SMH_KT6003B	15	20-May-24 A	04-Jun-24 A		0	100%
P2-8300	27 PVC lining joint welding at SMH-KT6003A (22/27 on 15-Jul-2024)	13	02-Jul-24 A	20-Jul-24 A			100%
P2-8301	Pit Housekeeping works and Removal of Hoisting Frame	11	21-Oct-24 A	31-Oct-24 A			100%
P2-8302	Flexible joint DN2100 concrete pipe installation at KT6003A	5	31-Oct-24 A	06-Nov-24 A			100%
P2-8312	Carry out CCTV inspection from KT6003A to KT6003B	1	11-Nov-24 A	11-Nov-24 A			100%
P2-8322	Welding PVC lining joint of DN2100 concrete pipe at SMH_KT6003B (24nos.)	10	12-Nov-24 A	22-Nov-24 A			100%
(KT6004A to KT6003B) (IL: 5.3-5.7mPD) 2100mm dia		114	20-May-24 A	13-Sep-24 A			100%
P2-8275	Set up and Assembly of TBM (2.1m dia.) at SMH_KT6004A	34	20-May-24 A	19-Jun-24 A		2	100%
P2-8280	Pipe Jacking from SMH_KT6004A to SMH_KT6003B (80m, 3m/day) (66.37m, 2m/day)	24	19-Jun-24 A	09-Jul-24 A		1	100%
P2-8285	Dismantle TBM at SMH_KT6003B	19	10-Jul-24 A	26-Jul-24 A		1	100%
P2-8295	SMH_KT6003B PVC lining joint welding of DN2100 concrete pipe	17	27-Aug-24 A	13-Sep-24 A			100%
(KT1.26A to KT1.27A) (IL: 5.1-4.6mPD) 800mm dia		73	20-Aug-24 A	19-Nov-24 A			100%
P2-8239	TBM (DN800) mobilizaion & scheduled for delivery on site	27	20-Aug-24 A	02-Sep-24 A			100%
P2-8240	Set up and Assembly of TBM (0.8m dia.)	4	03-Sep-24 A	12-Sep-24 A		2	100%
P2-8245	Pipe Jacking from FMH_KT1.26A to FMH_KT1.27A (77.3m, 3m/day) [64m]	22	13-Sep-24 A	08-Oct-24 A		1	100%
P2-8250	Dismantling TBM (0.8m dia.)	17	09-Oct-24 A	24-Oct-24 A		0	100%
P2-8251	Airtest pipeline between FMH_KT1.26A and FMH_KT1.27A	4	18-Oct-24 A	23-Oct-24 A			100%
P2-8255	Install decking at KT1.27A & release TTA	3	24-Oct-24 A	26-Oct-24 A		0	100%
P2-8345	Housekeeping works inside and outside pit	10	09-Nov-24 A	19-Nov-24 A			100%
(KT6004A to KT6005A) (IL: 5.9mPD) 2100mm dia		244	20-Aug-24 A	04-Jul-25	46		75.45%
P2-2169	TBM (DN2100) mobilization & scheduled for delivery on site	27	20-Aug-24 A	04-Sep-24 A			100%
P2-2170	Set up and Assembly TBM (2.1m dia.) at SMH_KT6004A	4	05-Sep-24 A	10-Sep-24 A		2	100%
P2-2180	Pipe Jacking from SMH_KT6004A to SMH_KT6005A (598.7m, 3m/day)	120	16-Sep-24 A	25-Jan-25 A		3	100%
P2-2190	Remove TBM (2.1m dia.) from SMH_KT6005A	50	27-Jan-25 A	22-Mar-25 A		0	100%
P2-2200	Grouting and Welding for pipe lining (598.7m, 10m day)	60	24-Mar-25 A	04-Jul-25	46		0%
Manhole Construction		1136	11-Apr-22 A	10-Oct-25	225		66.78%
FMH_KT1.23		105	11-Apr-22 A	26-Aug-22 A			100%
P2-8286	Erection of Working Platform	9	11-Apr-22 A	16-Apr-22 A		1	100%
P2-8288	Modification of Strut for Manhole FMH_KT1.23 construction	5	18-Apr-22 A	22-Apr-22 A		1	100%
P2-8290	Manhole FMH_KT1.23 construction	21	19-May-22 A	08-Aug-22 A		1	100%
P2-8291	Reinstatement of Combined Pit	23	01-Aug-22 A	24-Aug-22 A		1	100%
P2-8293	Handover cofferdam to C1	0		26-Aug-22 A		1	100%
SMH_KT6003A & FMH_KT1.26A		104	05-Feb-25 A	05-Jun-25	163		68.09%
P2-8305	Manhole FMH_KT1.26A construction	30	05-Feb-25 A	29-Mar-25 A		0	100%
P2-8310	Manhole SMH_KT6003A construction (Including 1 day TRA)	30	05-Feb-25 A	29-Mar-25 A		1	100%
P2-PIT-0010	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003A & 1.26A construction	33	31-Mar-25 A	05-Jun-25	163	1	0%
SMH_KT6003B & FMH_KT1.27A		100	15-Feb-25 A	05-Jun-25	163		66.89%
P2-8335	Manhole FMH_KT1.27A construction	50	21-Feb-25 A	15-Apr-25 A		1	100%
P2-8340	Manhole SMH_KT6003B construction	50	14-Feb-25 A	01-Apr-25 A		0	100%
P2-PIT-0020	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003B & 1.27A construction	33	30-Apr-25 A	05-Jun-25	163	15	0%
SMH_KT6004A & FMH_KT1.29A		120	30-Apr-25 A	06-Sep-25	54		0%
P2-8320	Manhole FMH_KT1.29A construction	30	30-Apr-25 A	02-Jun-25	54	0	0%
P2-8325	Manhole SMH_KT6004A construction	30	03-Jun-25	04-Jul-25	54	1	0%
P2-PIT-0030	Pit Backfilling and reinstatement of disturb landscape area after manholes 6004A & 1.29A construction	60	05-Jul-25	06-Sep-25	54		0%
FMH_KT1.32A		105	04-Jul-24 A	30-Nov-24 A			100%
P2-4060	Manhole FMH_KT1.32A base and wall construction (formwork and concreting)	27	04-Jul-24 A	27-Jul-24 A		1	100%
P2-4070	Manhole FMH_KT1.32A dismantling formwork of benching	3	27-Jul-24 A	29-Jul-24 A			100%
P2-4080	Manhole FMH_KT1.32A vertical extension of benching (falsework, rebar, formwork)	44	31-Jul-24 A	26-Sep-24 A			100%
P2-4090	Manhole FMH_KT1.32A top slab concreting	3	27-Sep-24 A	30-Sep-24 A			100%
P2-4100	Backfill & Reinstatement of Pit FMH_KT1.32A	18	02-Oct-24 A	22-Oct-24 A			100%
P2-4110	Extraction of Sheet Piles	13	18-Oct-24 A	31-Oct-24 A			100%
P2-PIT-0040	Reinstatement of disturb landscape area	27	24-Oct-24 A	30-Nov-24 A			100%
FMH_KT1.30A		158	25-May-24 A	04-Dec-24 A			100%
P2-3190	Manhole FMH_KT1.30A base and wall construction (formwork and concreting)	36	25-May-24 A	26-Jun-24 A		1	100%
P2-3200	Manhole FMH_KT1.30A dismantling formwork of benching	3	26-Jun-24 A	28-Jun-24 A			100%
P2-3210	Manhole FMH_KT1.30A vertical extension of benching (falsework, rebar, formwork)	44	31-Jul-24 A	16-Sep-24 A			100%
P2-3220	Manhole FMH_KT1.30A top slab concreting	4	17-Sep-24 A	21-Sep-24 A			100%
P2-3230	Backfilling (type A material)	28	30-Sep-24 A	30-Oct-24 A			100%
P2-3240	Extraction of Sheet Piles	10	25-Oct-24 A	03-Dec-24 A			100%
P2-PIT-0050	Reinstatement of disturb landscape area	27	05-Nov-24 A	04-Dec-24 A			100%
SMH_KT6005A & FMH_KT1.33A		366	02-Sep-24 A	10-Oct-25	135		75.36%
P3-2201	Erecting formwork for the benching of FMH_KT1.33A	26	02-Sep-24 A	30-Sep-24 A			100%
P3-2202	Manhole FMH_KT1.33A construction	27	02-Oct-24 A	31-Oct-24 A		2	100%
P3-2203	Pit Backfilling, Reinstatement, and Sheetpile extraction	44	09-Nov-24 A	27-Dec-24 A		1	100%
P3-4065	Manhole SMH_KT6005A construction	30	05-Jul-25	05-Aug-25	46	1	0%
P3-PIT-0060	Pit Backfilling and reinstatement of disturb landscape area after manholes 6005A & 1.33A construction	60	06-Aug-25	10-Oct-25	46		0%
Utilities Works and Signage		119	06-Sep-25	15-Jan-26	46		0%
P2-7100	Installation of Branch Pipe (NS250 PE Pipe) to KT1.29A	22	06-Sep-25	30-Sep-25	54	6	0%
P2-7120	UU (UG 11kV Cable) and signage works	89	10-Oct-25	15-Jan-26	46	14	0%
Portion 3 - Road & Drains		1670	13-Jul-20 A	27-Aug-25	264		93.35%
Site Possession		0	03-Aug-20 A	03-Aug-20 A			0%
P3-1000	Possession of site - Portion 3	0	03-Aug-20 A			0	100%
Pre-construction works		1551	13-Jul-20 A	26-Jul-25	294		94.82%
P3-1010	Utilities Detection in Portion 3	27	13-Jul-20 A	17-Aug-20 A		2	100%
P3-1020	Inspection Pit	36	03-Aug-20 A	18-Sep-20 A		4	100%
P3-1030	Coordination with UU owner to arrange diversion / abandon	27	19-Sep-20 A	30-Sep-20 A		3	100%
P3-1040	Environmental GI & submission of Lab report (PS:1.138)	19	18-Aug-20 A	11-Sep-20 A		2	100%
P3-1050	Circulation & Approval of TTAs	14	30-Nov-21 A	15-Dec-21 A		0	100%



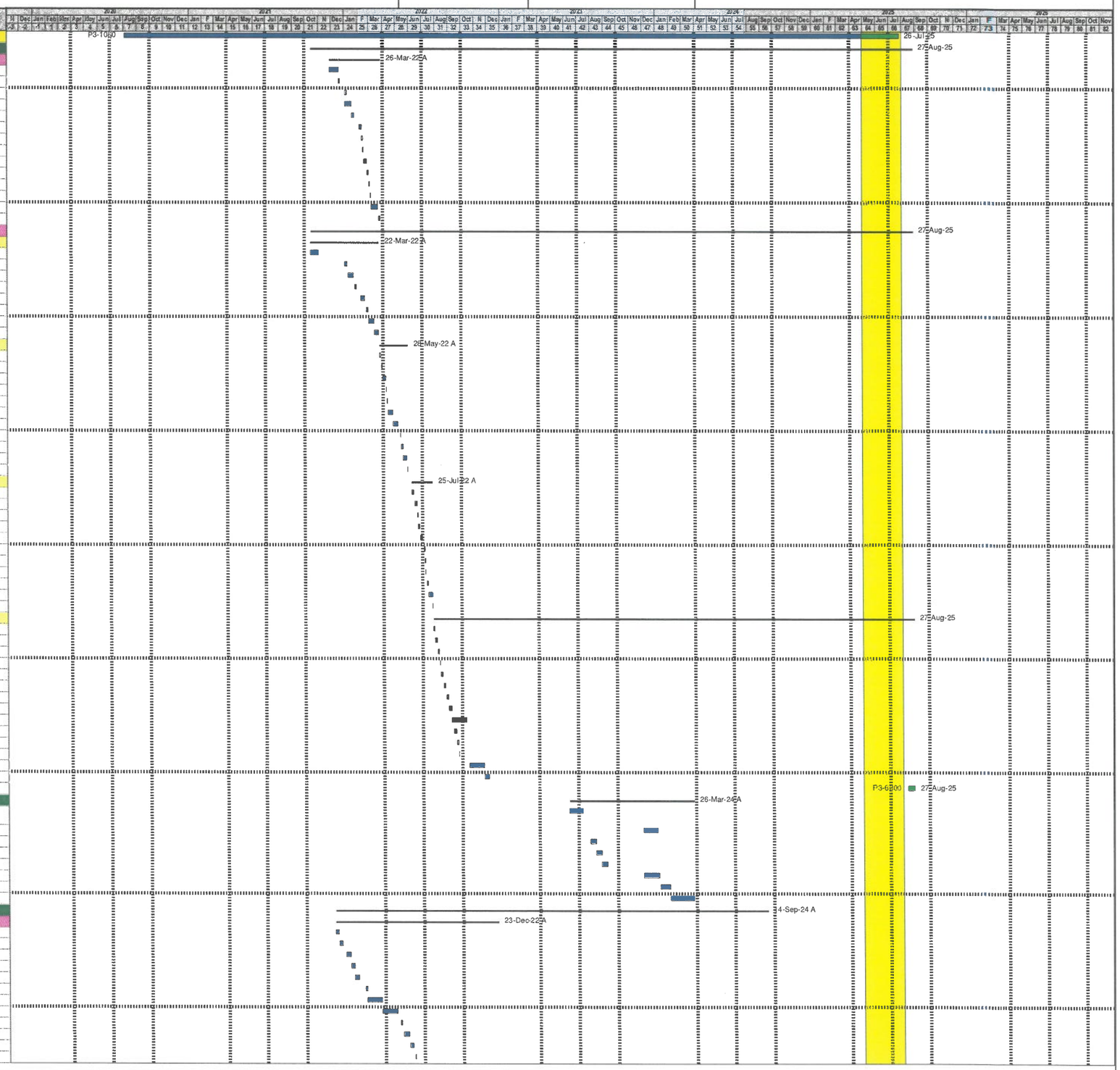
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P3-1060	Tree Protection and Preservation	1561	03-Aug-20 A	26-Jul-25	294	4	94.82%
Drainage Outfall_6013 constuction by Open Cut (By CE-067)		1232	15-Oct-21 A	27-Aug-25	264		98.85%
Outfall_6013		132	29-Nov-21 A	26-Mar-22 A			100%
P3-4005	Sheet Pile Installation at Outfall	26	29-Nov-21 A	20-Dec-21 A		0	100%
P3-4010	Formation of Tempoary haul road	6	21-Dec-21 A	23-Dec-21 A		0	100%
P3-4020-02	Excavation to 1st strut level	5	04-Jan-22 A	08-Jan-22 A		0	100%
P3-4020-04	Installation 1st level strut and testing	14	04-Jan-22 A	19-Jan-22 A		0	100%
P3-4020-06	Excavation to 2nd strut level	10	20-Jan-22 A	25-Jan-22 A		0	100%
P3-4020-08	Installation 2nd level strut and testing	14	07-Feb-22 A	12-Feb-22 A		0	100%
P3-4020-10	Excavation to Formation Level	2	12-Feb-22 A	14-Feb-22 A		0	100%
P3-4020-20	Backfilling and Blinding works to outfall	1	15-Feb-22 A	16-Feb-22 A		0	100%
P3-4020-30	Allow 7 days for concrete strength development	7	17-Feb-22 A	24-Feb-22 A		0	100%
P3-4020-40	Dismantle 2nd Layer Strut	1	25-Feb-22 A	28-Feb-22 A		0	100%
P3-4020-50	Outfall Baseslab (Incl concreting)	3	01-Mar-22 A	03-Mar-22 A		0	100%
P3-4020-60	Dismantle Base slab Formwork	2	04-Mar-22 A	05-Mar-22 A		0	100%
P3-4020-70	Outfall Wall (Incl concreting)	14	07-Mar-22 A	22-Mar-22 A		0	100%
P3-4020-80	Dismantle Wall Formwork	3	24-Mar-22 A	26-Mar-22 A		0	100%
Manhole SMH_KT6013A & FMH_KT1.36A		1202	15-Oct-21 A	27-Aug-25	264		98.84%
ELS		101	15-Oct-21 A	22-Mar-22 A			100%
P3-5220	Sheet Pile Installation of combined shaft (KT1.36A & KT6013A)	15	15-Oct-21 A	02-Nov-21 A		2	100%
P3-5230	Soft Excavation to 1st strut level	6	03-Jan-22 A	08-Jan-22 A		2	100%
P3-5230.1	Installation of strut S1	12	11-Jan-22 A	22-Jan-22 A		2	100%
P3-5240	Soft Excavation to 2nd strut level	3	27-Jan-22 A	29-Jan-22 A		2	100%
P3-5240.1	Installation of strut S2	4	10-Feb-22 A	19-Feb-22 A		2	100%
P3-5250	Soft Excavation to 3rd strut level	5	23-Feb-22 A	26-Feb-22 A		2	100%
P3-5250.1	Installation of strut S3	12	28-Feb-22 A	12-Mar-22 A		2	100%
P3-5260	Soft Excavation to F.L ; (approx. 8.5m depth) with blinding casting	8	14-Mar-22 A	22-Mar-22 A		2	100%
FMH_KT1.36A		43	26-Mar-22 A	28-May-22 A			100%
P3-5280	Formwork erection of manhole of KT1.36A (lower portion: +0.022mPD)	1	26-Mar-22 A	26-Mar-22 A		3	100%
P3-5280-2	Formwork erection of manhole of KT1.36A (lower portion: +0.022mPD)	3	29-Mar-22 A	31-Mar-22 A		3	100%
P3-5290	Rebar fixing for manhole of KT1.36A (lower portion: +0.022mPD)	5	01-Apr-22 A	08-Apr-22 A		3	100%
P3-5295	Concreting of manhole KT1.36A (lower portion: +0.022mPD)	1	09-Apr-22 A	09-Apr-22 A		2	100%
P3-5297	Dismantle of formwork	2	11-Apr-22 A	12-Apr-22 A		2	100%
P3-5310	Formwork erection of manhole KT1.36A:(Middle portion)	4	13-Apr-22 A	23-Apr-22 A		2	100%
P3-5320	Rebar fixing of manhole KT1.36A:(Middle portion)	9	25-Apr-22 A	05-May-22 A		2	100%
P3-5330	Concreting of manhole KT1.36A:(Middle portion)	1	12-May-22 A	12-May-22 A		2	100%
P3-5760	Formwork erection of manhole KT1.36A (Top portion)	3	14-May-22 A	17-May-22 A		2	100%
P3-5770	Rebar fixing of manhole KT1.36A (Top portion)	8	18-May-22 A	26-May-22 A		2	100%
P3-5780	Concreting of manhole KT1.36A (Top portion)	1	28-May-22 A	28-May-22 A		2	100%
SMH_KT6013A		63	07-Jun-22 A	25-Jul-22 A			100%
P3-5335	Dismantle of scaffolding of manhole KT1.36A	5	07-Jun-22 A	11-Jun-22 A		2	100%
P3-5340	Mass Concrete of manhole KT6013A	6	13-Jun-22 A	18-Jun-22 A		2	100%
P3-5345	Dismantle 3rd Layer Strut	2	20-Jun-22 A	21-Jun-22 A		2	100%
P3-5610	Formwork erection of manhole KT6013A (lower portion)	4	22-Jun-22 A	25-Jun-22 A		2	100%
P3-5620	Rebar fixing of manhole KT6013A (lower portion)	4	27-Jun-22 A	30-Jun-22 A		2	100%
P3-5620-2	Rebar fixing of manhole KT6013A (lower portion)	3	05-Jul-22 A	07-Jul-22 A		2	100%
P3-5630	Concreting of manhole KT6013A (lower portion)	1	08-Jul-22 A	08-Jul-22 A		2	100%
P3-5640	Dismantle of formwork (lower portion)	1	09-Jul-22 A	09-Jul-22 A		2	100%
P3-5730	Formwork erection of supporting Block for 3m Drain	4	11-Jul-22 A	14-Jul-22 A		2	100%
P3-5740	Rebar fixing of supporting Block for 3m Drain	8	15-Jul-22 A	23-Jul-22 A		2	100%
P3-5750	Concreting of supporting Block for 3m Drain	1	25-Jul-22 A	25-Jul-22 A		2	100%
Drainage Installation		1020	26-Jul-22 A	27-Aug-25	264		98.63%
P3-5670	ELS modification between Manhole KT6013A to Outfall	4	26-Jul-22 A	29-Jul-22 A		2	100%
P3-5680	3m dia. Pipe Laying	4	30-Jul-22 A	03-Aug-22 A		2	100%
P3-5680.2	3m dia. Pipe Laying	2	06-Aug-22 A	08-Aug-22 A		2	100%
P3-5680.4	3m dia. Pipe Laying	1	11-Aug-22 A	11-Aug-22 A		2	100%
P3-5680.6	3m dia. Pipe Laying	3	13-Aug-22 A	16-Aug-22 A		2	100%
P3-5690	Backfill drain trench to 2nd Layer Strut level	4	19-Aug-22 A	23-Aug-22 A		2	100%
P3-5700	Dismantle 2nd layer strut	4	26-Aug-22 A	30-Aug-22 A		2	100%
P3-6250	Falsework erection of manhole KT6013A (Upper portion)	9	31-Aug-22 A	06-Sep-22 A		2	100%
P3-6255	1st side Formwork erection of manhole KT6013A (Upper portion)	4	07-Sep-22 A	11-Oct-22 A		2	100%
P3-6260	Rebar fixing of manhole KT6013A (Upper portion)	5	13-Sep-22 A	17-Sep-22 A		2	100%
P3-6265	2nd side Formwork erection of manhole KT6013A (Upper portion)	4	19-Sep-22 A	22-Sep-22 A		2	100%
P3-6270	Concreting of manhole KT6013A (Upper portion)	1	24-Sep-22 A	24-Sep-22 A		2	100%
P3-6275	Backfill to 1st strut level and Dismantle 1st layer strut	41	18-Oct-22 A	22-Nov-22 A		2	100%
P3-6280	Backfill to original ground level and remove Sheet Pile	10	23-Nov-22 A	03-Dec-22 A		2	100%
P3-6300	Pipe laying from SMH_KT6005A to SMH_KT6013A (2.1m dia./ 8.5m(L))	14	13-Aug-25	27-Aug-25	264		0%
DN200 PE Watermain from CPR to LVNC (By CE-120)		210	10-Jun-23 A	26-Mar-24 A			100%
P3-7000	Site clearance, trench excavation, breaking existing paving and removal of debris before pipe laying	27	10-Jun-23 A	10-Jul-23 A			100%
P3-7005	CH0.201 to CH280 DN200 PE watermain laying	11	01-Dec-23 A	01-Jan-24 A			100%
P3-7010	CH280 to CH360 DN200 PE watermain laying	11	28-Jul-23 A	10-Aug-23 A			100%
P3-7015	CH360 to CH400 DN200 PE watermain laying	11	11-Aug-23 A	24-Aug-23 A			100%
P3-7020	CH400 to CH440 DN200 PE watermain laying	11	24-Aug-23 A	06-Sep-23 A			100%
P3-7030	CH440 to CH557.112 DN200 PE watermain laying	18	01-Dec-23 A	05-Jan-24 A			100%
P3-7040	DN200 PE Watermain Chamber Construction	13	08-Jan-24 A	30-Jan-24 A			100%
P3-7050	DN200 PE Watermain Hydrostatic Pressure Test	19	31-Jan-24 A	26-Mar-24 A			100%
Sewer Pipeline Installation (KT1.33A to KT1.41A)		929	07-Dec-21 A	14-Sep-24 A			100%
KT1.39A - KT1.38A(99m) (Pipe Jacking by CE-074)		336	07-Dec-21 A	23-Dec-22 A			100%
P3-2500	Expose Utilites by Hand excavation	6	07-Dec-21 A	14-Dec-21 A		2	100%
P3-2510	KT1.39A Sheet Pile Installation for lauching shaft	8	15-Dec-21 A	23-Dec-21 A		2	100%
P3-2520	KT1.39A Soft Excavation to 1st strut level & Installation of strut S1	9	31-Dec-21 A	11-Jan-22 A		2	100%
P3-2530	KT1.39A Soft Excavation to 2nd strut level & Installation of strut S2	8	12-Jan-22 A	20-Jan-22 A		2	100%
P3-2540	KT1.39A Soft Excavation to 3rd strut level & Installation of strut S3	8	21-Jan-22 A	29-Jan-22 A		2	100%
P3-2550	KT1.39A Soft Excavation to F.L ; (approx. 8.5m depth)	5	15-Feb-22 A	19-Feb-22 A		2	100%
P3-2552	TBM Works On Hold Due to Pipe Jacking Workers suffered Covid-19	26	19-Feb-22 A	24-Mar-22 A		2	100%
P3-2555	Set up Pipe Jacking Equipment (1st pipe)	30	25-Mar-22 A	29-Apr-22 A		2	100%
P3-2556	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	2	07-May-22 A	10-May-22 A		2	100%
P3-2556.17	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	12	14-May-22 A	26-May-22 A		2	100%
P3-2556.19	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	7	28-May-22 A	04-Jun-22 A		2	100%
P3-2556.21	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	1	10-Jun-22 A	10-Jun-22 A		2	100%



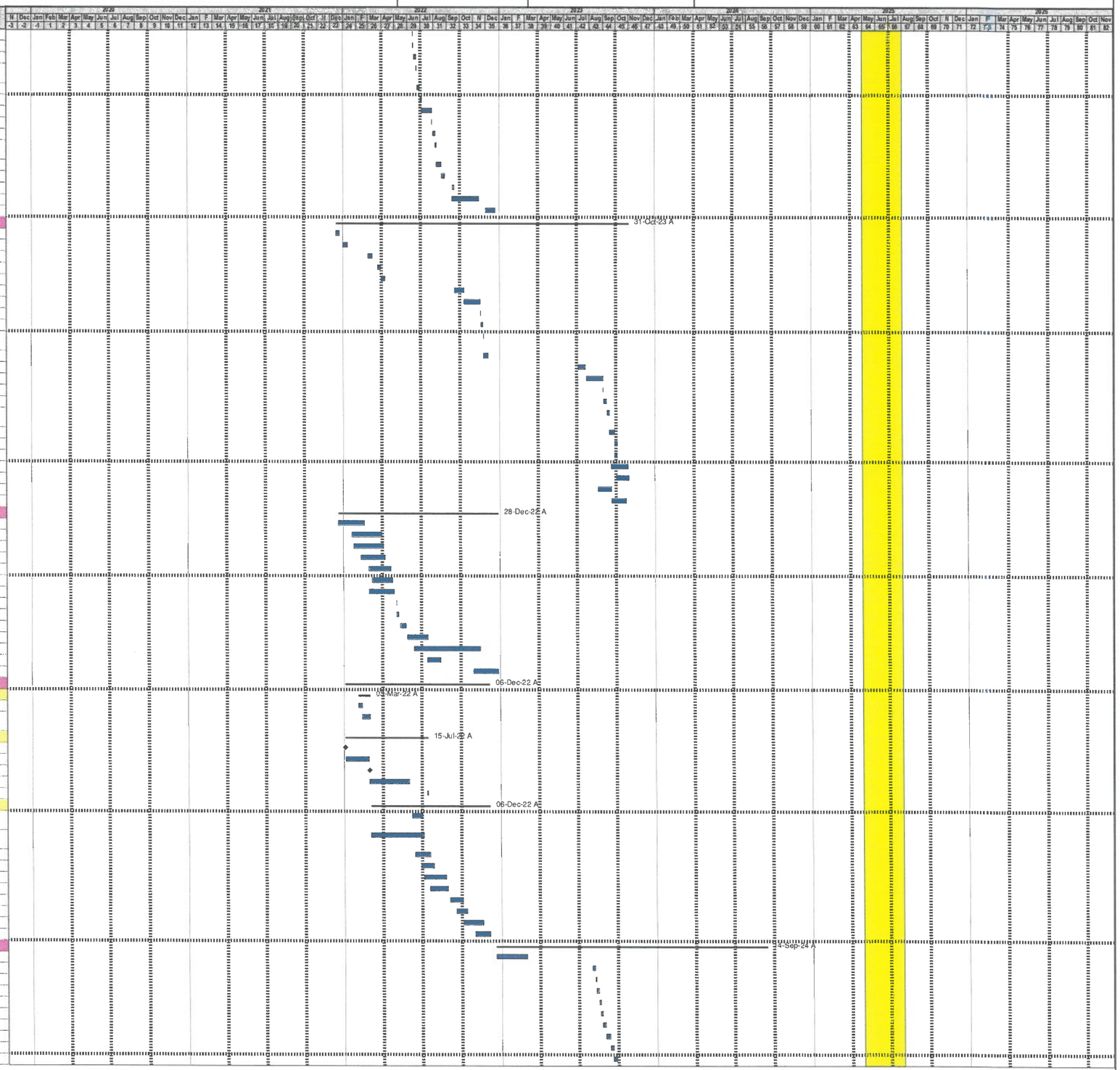
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	Float	Duration % Complete
P3-2556.23	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	1	13-Jun-22 A	13-Jun-22 A		2	100%
P3-3000	TBM reach the sheet pile at receiving pit	1	14-Jun-22 A	14-Jun-22 A		0	100%
P3-3002	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	16-Jun-22 A	21-Jun-22 A		0	100%
P3-3004	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air test	2	22-Jun-22 A	23-Jun-22 A		0	100%
P3-3006	Demolish & removal of the slurry pipe, power cable inside the jacking pipe	5	24-Jun-22 A	29-Jun-22 A		0	100%
P3-3010	Set up Pipe Jacking Equipment (2nd pipe)	3	02-Jul-22 A	05-Jul-22 A		0	100%
P3-3020	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	23	05-Jul-22 A	28-Jul-22 A		2	100%
P3-5790	TBM reach the sheet pile at receiving pit	1	29-Jul-22 A	29-Jul-22 A		0	100%
P3-5800	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	01-Aug-22 A	05-Aug-22 A		0	100%
P3-5810	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air test	2	06-Aug-22 A	08-Aug-22 A		0	100%
P3-5820	Demolish & removal of the slurry pipe, power cable inside the jacking pipe	10	09-Aug-22 A	19-Aug-22 A		0	100%
P3-5830	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	20-Aug-22 A	27-Aug-22 A		0	100%
P3-5835	Modify the hoisting frame at Jacking Pit	3	15-Sep-22 A	17-Sep-22 A		0	100%
P3-5840	Construction of Manhole KT1.38A	24	14-Sep-22 A	15-Nov-22 A		2	100%
P3-5842	Backfilling to at grade level KT1.38A	20	01-Dec-22 A	23-Dec-22 A		2	100%
KT1.39A - KT1.40A(99m) (Pipe Jacking by CE-074)		534	15-Dec-21 A	31-Oct-23 A			100%
P3-5450	Sheet Pile Installation for lauching shaft KT1.40A	21	15-Dec-21 A	23-Dec-21 A		2	100%
P3-5460	KT1.40A Soft Excavation to 1st strut level & Installation of strut S1	16	31-Dec-21 A	11-Jan-22 A		2	100%
P3-5470	KT1.40A Soft Excavation to 2nd strut level & Installation of strut S2	8	02-Mar-22 A	10-Mar-22 A		2	100%
P3-5480	KT1.40A Soft Excavation to 3rd strut level & Installation of strut S3	8	24-Mar-22 A	31-Mar-22 A		2	100%
P3-5490	KT1.40A Soft Excavation to F.L ; (approx. 8.5m depth)	8	01-Apr-22 A	09-Apr-22 A		2	100%
P3-5550	Set up Pipe Jacking Equipment (1st pipe)	15	19-Sep-22 A	11-Oct-22 A		2	100%
P3-5560	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.40A) (99m ~3m/d)	37	12-Oct-22 A	18-Nov-22 A		2	100%
P3-5856	TBM reach the sheet pile at receiving pit	1	19-Nov-22 A	19-Nov-22 A		0	100%
P3-5866	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	21-Nov-22 A	25-Nov-22 A		0	100%
P3-5876	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air test	2	26-Nov-22 A	26-Nov-22 A		0	100%
P3-5886	Demolish & removal of the slurry pipe, power cable inside the jacking pipe	10	26-Nov-22 A	07-Dec-22 A		0	100%
P3-6030	Set up Pipe Jacking Equipment (2nd pipe)	15	05-Jul-23 A	22-Jul-23 A		0	100%
P3-6040	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.40A) (99m ~3m/d)	36	24-Jul-23 A	01-Sep-23 A		2	100%
P3-6050	TBM reach the sheet pile at receiving pit	1	01-Sep-23 A	01-Sep-23 A		0	100%
P3-6060	Pre- treatment grouting, setup the exit ring, cutting sheet pile	7	02-Sep-23 A	09-Sep-23 A		0	100%
P3-6070	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air test	5	11-Sep-23 A	15-Sep-23 A		0	100%
P3-6080	Demolish & removal of the slurry pipe, power cable inside the jacking pipe	12	16-Sep-23 A	28-Sep-23 A		0	100%
P3-6090	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	28-Sep-23 A	04-Oct-23 A		0	100%
P3-6100	Demolish and removal the hoisting frame at Jacking Pit	3	28-Sep-23 A	03-Oct-23 A		0	100%
P3-6105	Construction of Manhole KT1.39A	30	20-Sep-23 A	30-Oct-23 A		2	100%
P3-6107	Backfilling to at grade level KT1.39A	30	02-Oct-23 A	31-Oct-23 A		2	100%
P3-6110	Construction of Manhole KT1.40A	30	20-Aug-23 A	21-Sep-23 A		2	100%
P3-6120	Backfilling to at grade level KT1.40A	30	21-Sep-23 A	26-Oct-23 A		2	100%
KT1.38A - KT1.37A(99m) (Open Cut by CE-075)		335	20-Dec-21 A	28-Dec-22 A			100%
P3-2200	Sheet Pile Installation for open trench at KT1.38A - KT1.37A	49	20-Dec-21 A	19-Feb-22 A		2	100%
P3-2210	Soft Excavation to 1st strut level (99m @12m / Bay)	72	20-Jan-22 A	30-Mar-22 A		2	100%
P3-2210.1	Installation of strut S1 (99m @12m / Bay)	75	24-Jan-22 A	04-Apr-22 A		2	100%
P3-2220	Soft Excavation to 2nd strut level (99m @12m / Bay)	75	11-Feb-22 A	07-Apr-22 A		2	100%
P3-2220.1	Installation of strut S2 (99m @12m / Bay)	61	01-Mar-22 A	21-Apr-22 A		2	100%
P3-2250	Soft Excavation to F.L ; (99m @12m / Bay)	59	10-Mar-22 A	25-Apr-22 A		2	100%
P3-2253	Receipt from manufacturer's notification for delay of delivery due to Covid-19	51	01-Mar-22 A	29-Apr-22 A		3	100%
P3-2255	Impacted Delivery Date of Concrete Pipe	0	05-May-22 A	05-May-22 A		3	100%
P3-2260	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	4	05-May-22 A	10-May-22 A		2	100%
P3-2263	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	10	14-May-22 A	25-May-22 A		2	100%
P3-2265	Backfilling of drain to at grade level KT1.37A	40	30-May-22 A	16-Jul-22 A		2	100%
P3-2270	Construction of Manhole KT1.37A	24	13-Jun-22 A	15-Nov-22 A		2	100%
P3-2275	Extract Sheet Pile along trench	27	15-Jul-22 A	15-Aug-22 A		2	100%
P3-2280	Backfilling of manhole to at grade level KT1.37A	49	01-Nov-22 A	28-Dec-22 A		2	100%
KT1.37A - KT1.36A(90m) (Open Cut by CE-068)		306	03-Jan-22 A	06-Dec-22 A			100%
Before Tree Removal		25	04-Feb-22 A	03-Mar-22 A			100%
P3-2000	Expose Utilites by Hand excavation	7	04-Feb-22 A	11-Feb-22 A		2	100%
P3-2005	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side before tree removal)	17	12-Feb-22 A	03-Mar-22 A		2	100%
Tree Removal		163	03-Jan-22 A	15-Jul-22 A			100%
P3-2009.1	RFI 076 for the Clashing of Pipe Trench of KT1.37A to KT1.36A	0		03-Jan-22 A		2	100%
P3-2009.2	Waiting Period from Project Manager of RFI 076	45	04-Jan-22 A	28-Feb-22 A		2	100%
P3-2009.3	Receipt of Project Reply of RFI 076 for felling the tree T0937	0	01-Mar-22 A			2	100%
P3-2009.4	Application and Approval for tree felling of T0937	78	01-Mar-22 A	01-Jun-22 A		2	100%
P3-2009.5	Tree felling works of T0937 to release working space for sheet piling	2	14-Jul-22 A	15-Jul-22 A		2	100%
After Tree Removal		252	04-Mar-22 A	06-Dec-22 A			100%
P3-2009.6	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side avoid abandoned tree location)	21	08-Jun-22 A	02-Jul-22 A		2	100%
P3-2009.7	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (Cycle Track Side to close the entire trench)	103	04-Mar-22 A	06-Jul-22 A		2	100%
P3-2010	Soft Excavation to 1st strut level	30	15-Jun-22 A	20-Jul-22 A		2	100%
P3-2010.1	Installation of strut S1	32	29-Jun-22 A	29-Jul-22 A		2	100%
P3-2020	Soft Excavation to 2nd strut level	30	06-Jul-22 A	25-Aug-22 A		2	100%
P3-2020.1	Installation of strut S2	32	19-Jul-22 A	29-Aug-22 A		2	100%
P3-2070	Soft Excavation to F.L with blinding cast; (approx. 8.5m depth)	24	05-Sep-22 A	05-Oct-22 A		2	100%
P3-2110	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	23	19-Sep-22 A	14-Oct-22 A		2	100%
P3-2115	Backfilling of drain to at grade level with dismantling strut	40	06-Oct-22 A	21-Nov-22 A		2	100%
P3-6290	Sheet Pile Extraction	30	02-Nov-22 A	06-Dec-22 A		2	100%
KT1.36A - KT1.33A(23m) (Open Cut by CE-068)		596	20-Dec-22 A	14-Sep-24 A			100%
P3-5025	Hand Dig Excavation to identy the routing of existing utilites with diversion	56	20-Dec-22 A	28-Feb-23 A		2	100%
P3-5030	Sheet Pile Installation of combined shaft (KT1.33A & KT6005A)	6	02-Aug-23 A	08-Aug-23 A		2	100%
P3-5040	Soft Excavation to 1st strut level	3	09-Aug-23 A	11-Aug-23 A		2	100%
P3-5040.1	Installation of strut S1	5	11-Aug-23 A	16-Aug-23 A		2	100%
P3-5050	Soft Excavation to 2nd strut level	4	17-Aug-23 A	21-Aug-23 A		2	100%
P3-5050.1	Installation of strut S2	5	21-Aug-23 A	25-Aug-23 A		2	100%
P3-5070	Soft Excavation to F.L ; (approx. 8.5m depth)	6	26-Aug-23 A	01-Sep-23 A		2	100%
P3-6130	Sheet pile installation of Trench for 800 dia. and 2100 dia. pipe installation	10	02-Sep-23 A	12-Sep-23 A		2	100%
P3-6140	Soft Excavation to to 1st Strut Level	6	13-Sep-23 A	19-Sep-23 A		2	100%
P3-6150	Install 1st Level Strut	7	20-Sep-23 A	27-Sep-23 A		2	100%



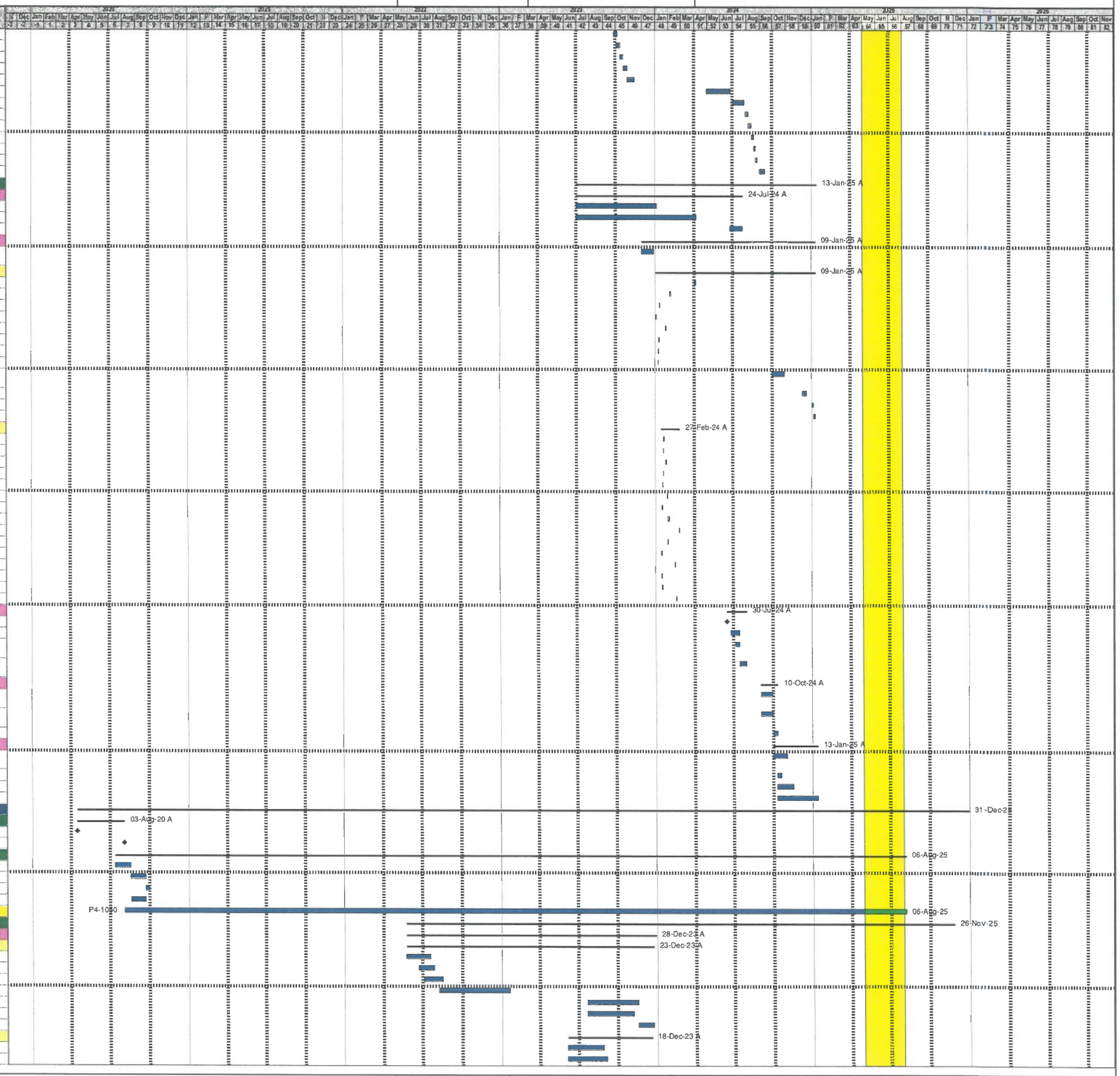
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P3-6160	Soft Excavation to to 2nd Strut Level	6	27-Sep-23 A	05-Oct-23 A		2	100%
P3-6170	Install 2nd Level Strut	7	05-Oct-23 A	12-Oct-23 A		2	100%
P3-6200	Excavate to FEL	6	13-Oct-23 A	19-Oct-23 A		2	100%
P3-6210	Bedding & 800 Dia. Concrete Pipe Laying	6	20-Oct-23 A	30-Oct-23 A		2	100%
P3-6220	Backfill to base level of 2100 dia pipe, bedding and pipe laying	15	30-Oct-23 A	15-Nov-23 A		2	100%
P3-6221	188 PVC lining joint welding (Completed 28 June 2024)	27	01-May-24 A	26-Jun-24 A			100%
P3-6224	Guide Rail Removal	27	02-Jul-24 A	28-Jul-24 A			100%
P3-6225	Relocation of cat ladder	6	31-Jul-24 A	06-Aug-24 A			100%
P3-6226	Cut open sheet pile for DN825 pipe	6	07-Aug-24 A	13-Aug-24 A			100%
P3-6227	Placing pipe bedding	4	14-Aug-24 A	19-Aug-24 A			100%
P3-6228	ELS modification for pipe laying FMH_KT1.33A to FMH_KT1.36A	4	20-Aug-24 A	23-Aug-24 A			100%
P3-6229	Install DN825 concrete pipe	4	24-Aug-24 A	28-Aug-24 A			100%
P3-6229.1	Backfilling works for pipeline between FMH_KT1.33A and FMH_KT1.36A	12	02-Sep-24 A	14-Sep-24 A			100%
Reinstatement Works		534	01-Jul-23 A	13-Jan-25 A			100%
Slope Reinstatement		383	01-Jul-23 A	24-Jul-24 A			100%
P3-5021	Slope reinstatement works from KT1.33 - KT1.37	53	01-Jul-23 A	04-Jan-24 A			100%
P3-5031	Slope reinstatement works from KT1.37 - KT139	53	01-Jul-23 A	05-Apr-24 A			100%
P3-5041	Slope reinstatement works from KT1.39 - KT1.41 (approx. 90m, 2.5m/d)	32	25-Jun-24 A	24-Jul-24 A			100%
Road Reinstatement for Permanent DSD Maintenance Access		366	01-Dec-23 A	09-Jan-25 A			100%
P3-5044	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	24	01-Dec-23 A	28-Dec-23 A			100%
CH80 to CH190		338	02-Jan-24 A	09-Jan-25 A			100%
P3-5045	CH80 to CH100 Erect Rebar & Formwork and Pouring concrete to slab	3	02-Apr-24 A	05-Apr-24 A			100%
P3-5046	CH100 to CH120 Erect Rebar & Formwork and Pouring concrete to slab	2	05-Feb-24 A	06-Feb-24 A			100%
P3-5055	Bay 1-2 - Erect Rebar & Formwork and Pouring concrete to slab	2	11-Jan-24 A	12-Jan-24 A			100%
P3-5075	Bay 3 - Erect Rebar & Formwork and Pouring concrete to slab	2	02-Jan-24 A	03-Jan-24 A			100%
P3-5085	Bay 4 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Jan-24 A	27-Jan-24 A			100%
P3-5095	Bay 5 - Erect Rebar & Formwork and Pouring concrete to slab	2	10-Jan-24 A	11-Jan-24 A			100%
P3-5105	Bay 6 - Erect Rebar & Formwork and Pouring concrete to slab	2	09-Jan-24 A	10-Jan-24 A			100%
P3-5115	Bay 7 - Erect Rebar & Formwork and Pouring concrete to slab	1	08-Jan-24 A	08-Jan-24 A			100%
P3-5120	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	25	30-Sep-24 A	28-Oct-24 A			100%
P3-5125	Bay 7a (FMH_KT1.36A) - Erect Rebar & Formwork and Pouring concrete to slab	10	10-Dec-24 A	19-Dec-24 A			100%
P3-5135	Bay 8a (FMH_KT1.33A) - Erect Rebar & Formwork and Pouring concrete to slab	4	31-Dec-24 A	04-Jan-25 A			100%
P3-5145	Bay 9a (CPR) - Erect Rebar & Formwork and Pouring concrete to slab	4	06-Jan-25 A	09-Jan-25 A			100%
CH190 to CH380		32	15-Jan-24 A	27-Feb-24 A			100%
P3-5116	Bay 8 - Erect Rebar & Formwork and Pouring concrete to slab	2	20-Jan-24 A	22-Jan-24 A			100%
P3-5126	Bay 9 - Erect Rebar & Formwork and Pouring concrete to slab	1	20-Jan-24 A	20-Jan-24 A			100%
P3-5136	Bay 10 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Jan-24 A	27-Jan-24 A			100%
P3-5146	Bay 11 - Erect Rebar & Formwork and Pouring concrete to slab	1	20-Jan-24 A	20-Jan-24 A			100%
P3-5156	Bay 12 - Erect Rebar & Formwork and Pouring concrete to slab	2	18-Jan-24 A	19-Jan-24 A			100%
P3-5166	Bay 13 - Erect Rebar & Formwork and Pouring concrete to slab	2	29-Jan-24 A	30-Jan-24 A			100%
P3-5176	Bay 15 & 18 - Erect Rebar & Formwork and Pouring concrete to slab	2	17-Jan-24 A	18-Jan-24 A			100%
P3-5186	Bay 14, 16, & 17 - Erect Rebar & Formwork and Pouring concrete to slab	3	30-Jan-24 A	02-Feb-24 A			100%
P3-5226	Bay 19 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Feb-24 A	27-Feb-24 A			100%
P3-5236	Bay 20 - Erect Rebar & Formwork and Pouring concrete to slab	2	30-Jan-24 A	31-Jan-24 A			100%
P3-5246	Bay 21 - Erect Rebar & Formwork and Pouring concrete to slab	2	15-Jan-24 A	16-Jan-24 A			100%
P3-5247	Bay 22 - Erect Rebar & Formwork and Pouring concrete to slab	2	15-Feb-24 A	16-Feb-24 A			100%
P3-5256	Bay 23 - Erect Rebar & Formwork and Pouring concrete to slab	2	15-Jan-24 A	16-Jan-24 A			100%
P3-5266	Bay 24 - Erect Rebar & Formwork and Pouring concrete to slab	2	16-Jan-24 A	17-Jan-24 A			100%
P3-5276	Bay 25 - Erect Rebar & Formwork and Pouring concrete to slab	2	19-Feb-24 A	20-Feb-24 A			100%
CE-243 Demolition of Existing Planters along Footpath of SYR and Widening of Footpath for Public		42	15-Jun-24 A	30-Jul-24 A			100%
P3-CE243-01	PMI-210 received on 15 Jun 2024	0	15-Jun-24 A				100%
P3-CE243-05	Obtain Quotation Acceptance from PM (Time & Cost)	19	25-Jun-24 A	15-Jul-24 A			100%
P3-CE243-11	Demolition of existing planters adjacent to footpath along SY River (Between KT1.33A to KT1.39A)	9	05-Jul-24 A	15-Jul-24 A		3	100%
P3-CE243-21	Pavement installation approx. 210 metre combined by concrete blocks (Between KT1.33A to KT1.39A)	15	15-Jul-24 A	30-Jul-24 A		3	100%
Additional Landscaping Works		27	02-Sep-24 A	10-Oct-24 A			100%
P3-Planting-0010	Shrubs Planting 457m along Sheung Yue River (6nos. Ficus microcarpa (golden) x 3m intervals) (500mm)	27	02-Sep-24 A	30-Sep-24 A			100%
P3-Planting-0020	Shrubs Planting 457m along Sheung Yue River (6 nos. Lxora chinensis x 3m intervals) (500mm)	27	02-Sep-24 A	30-Sep-24 A			100%
P3-Planting-0030	Planter watering	9	01-Oct-24 A	10-Oct-24 A			100%
Remaining Reinstatement Works		85	30-Sep-24 A	13-Jan-25 A			100%
P3-5003	Wooden Metal Wiring Installation along Castle Peak Road at Portion 3 (metal wires and timber panels MOS 16-Sep-24)	29	30-Sep-24 A	01-Nov-24 A			100%
P3-5005	Remaining Pipe Connection to Manhole (After Pipe Jacking)	9	10-Oct-24 A	19-Oct-24 A		2	100%
P3-5006	Reinstatement of disturbed landscape area and Tree Planting (83nos.)	35	10-Oct-24 A	16-Nov-24 A		14	100%
P3-5010	Underground Utilities & Road works	80	10-Oct-24 A	13-Jan-25 A		14	100%
Portion 4 - Road & Drains		1784	16-Apr-20 A	31-Dec-25	150		87.43%
Site Possession		306	16-Apr-20 A	03-Aug-20 A			100%
P4-1070	Possession of site - Part of Portion 4	0	16-Apr-20 A				100%
P4-1075	Possession of site - Remaining Part of Portion 4	0	03-Aug-20 A			0	100%
Pre-construction works		1564	13-Jul-20 A	06-Aug-25	284		94.18%
P4-1010	Utilities Detection in Portion 4	27	13-Jul-20 A	17-Aug-20 A		2	100%
P4-1020	Inspection Pit	35	18-Aug-20 A	22-Sep-20 A		4	100%
P4-1030	Coordination with UU owner to arrange diversion / abandon	27	23-Sep-20 A	30-Sep-20 A		3	100%
P4-1040	Environmental GI & submission of Lab report (PS:1.138)	27	19-Aug-20 A	22-Sep-20 A		2	100%
P4-1050	Tree Protection and Preservation	1564	03-Aug-20 A	06-Aug-25	284	4	94.18%
Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)		1160	24-May-22 A	26-Nov-25	181		53.24%
Gang 1		539	24-May-22 A	28-Dec-23 A			100%
Rising Main CHB255 to CHB371 (116M) Gang 1-1		527	24-May-22 A	23-Dec-23 A			100%
P4-3210	Sheet Pile Installation for open trench (600 pcs)	49	24-May-22 A	21-Jul-22 A			100%
P4-3212	Soft Excavation to 1st strut level	57	23-Jun-22 A	28-Jul-22 A			100%
P4-3214	Installation of strut S1	58	05-Jul-22 A	18-Aug-22 A			100%
P4-3220	Soft Excavation to F.L.	136	09-Aug-22 A	19-Jan-23 A			100%
P4-3222	Bedding and Pipe Laying (Twins DN700)	109	22-Jul-23 A	17-Nov-23 A			100%
P4-3223	RC Works Inspection Chamber and Air Valve Chamber	100	22-Jul-23 A	07-Nov-23 A			100%
P4-3224	Backfilling of drain to at grade level	36	17-Nov-23 A	23-Dec-23 A			100%
Rising Main CHB180 to CHB255 (75M) Gang 1-2		182	05-Jun-23 A	18-Dec-23 A			100%
P4-6480	Sheet Pile Installation for open trench	49	05-Jun-23 A	28-Aug-23 A		3	100%
P4-6490	Soft Excavation to 1st strut level	57	05-Jun-23 A	05-Sep-23 A		3	100%



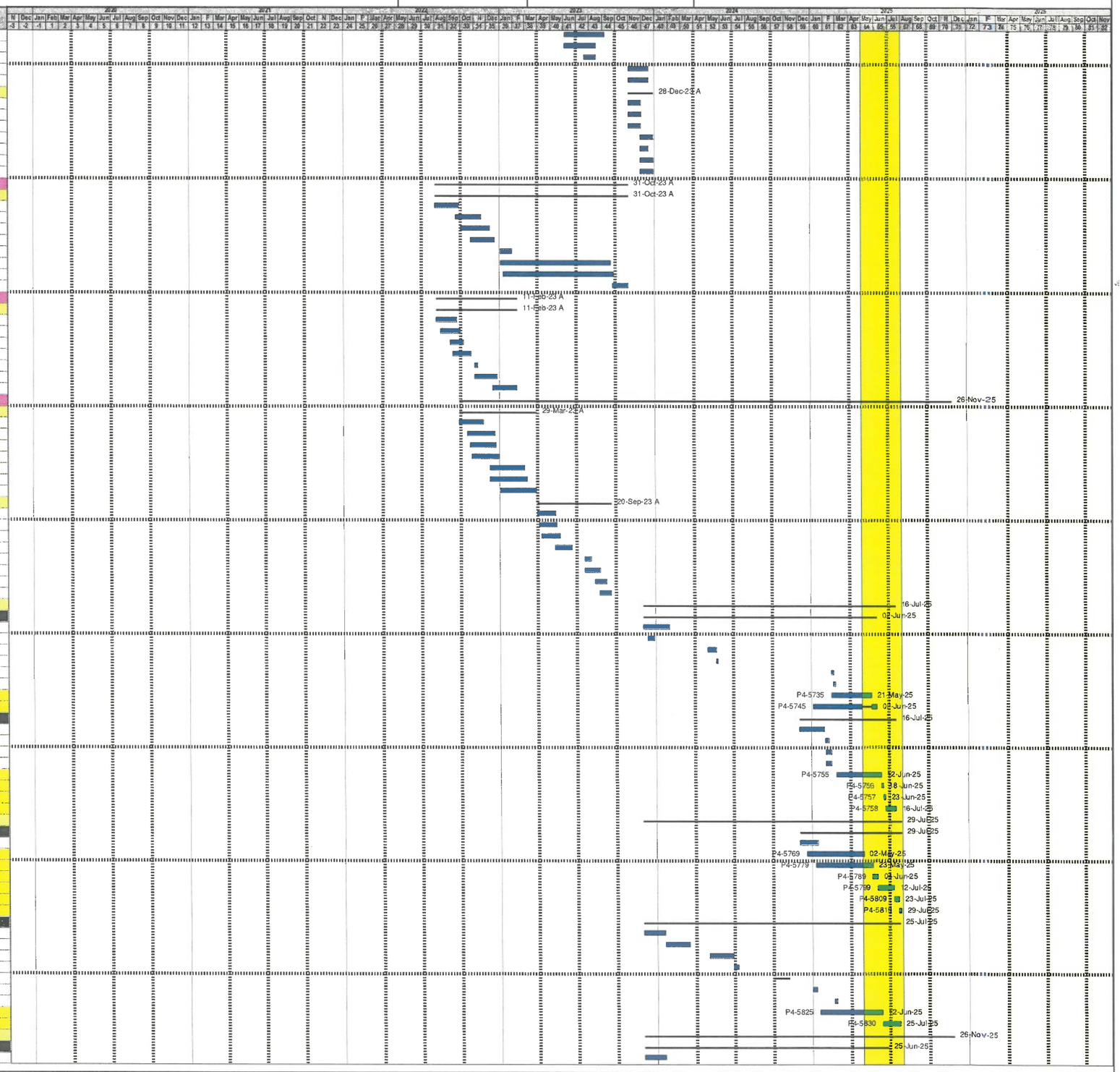
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P4-6500	Installation of strut S1	58	05-Jun-23 A	06-Sep-23 A		3	100%
P4-6530	Soft Excavation to F.L.	39	05-Jun-23 A	17-Aug-23 A		4	100%
P4-6540	Bedding and Pipe Laying (Twins DN700)	13	21-Jul-23 A	17-Aug-23 A		2	100%
P4-6545	RC Works Inspection Chamber and Air Valve Chamber	45	01-Nov-23 A	18-Dec-23 A		3	100%
P4-6550	Backfilling of drain to at grade level	45	01-Nov-23 A	18-Dec-23 A		3	100%
Rising Main CHB560 to CHB589 (74M) Gang 1-3		63	01-Nov-23 A	28-Dec-23 A			100%
P4-5920	Sheet Pile Installation for open trench	28	01-Nov-23 A	30-Nov-23 A			100%
P4-5930	Soft Excavation to 1st strut level	30	01-Nov-23 A	02-Dec-23 A			100%
P4-5940	Installation of strut S1	28	01-Nov-23 A	30-Nov-23 A			100%
P4-5970	Soft Excavation to F.L.	28	30-Nov-23 A	28-Dec-23 A			100%
P4-5980	Bedding and Pipe Laying (Twins DN700)	17	30-Nov-23 A	18-Dec-23 A			100%
P4-5985	RC Works Inspection Chamber and Air Valve Chamber	36	30-Nov-23 A	28-Dec-23 A			100%
P4-5990	Backfilling of drain to at grade level	36	30-Nov-23 A	28-Dec-23 A			100%
Gang 2		406	02-Aug-22 A	31-Oct-23 A			100%
Rising Main CHB120 to CHB180 (60M) Gang 2-1		406	02-Aug-22 A	31-Oct-23 A			100%
P4-6000	Sheet Pile Installation for open trench	49	02-Aug-22 A	28-Sep-22 A			100%
P4-6010	Soft Excavation to 1st strut level	57	20-Sep-22 A	19-Nov-22 A			100%
P4-6020	Installation of strut S1	58	03-Oct-22 A	09-Dec-22 A			100%
P4-6050	Soft Excavation to F.L.	50	25-Oct-22 A	21-Dec-22 A			100%
P4-6060	Bedding and Pipe Laying (Twins DN700)	22	04-Jan-23 A	30-Jan-23 A			100%
P4-6065	RC Works Inspection Chamber and Air Valve Chamber	63	04-Jan-23 A	19-Sep-23 A			100%
P4-6070	Backfilling of drain to at grade level	40	11-Jan-23 A	26-Sep-23 A			100%
P4-6320	Sheet Pile Extraction	30	26-Sep-23 A	31-Oct-23 A			100%
Gang 3		405	05-Aug-22 A	11-Feb-23 A			100%
Rising Main CHB589 to CHB699 (88M) Gang 3-1		405	05-Aug-22 A	11-Feb-23 A			100%
P4-5600	Sheet Pile Installation for open trench	42	05-Aug-22 A	23-Sep-22 A			100%
P4-5610	Soft Excavation to 1st strut level	40	15-Aug-22 A	30-Sep-22 A			100%
P4-5620	Installation of strut S1	25	07-Sep-22 A	08-Oct-22 A			100%
P4-5650	Soft Excavation to F.L.	34	14-Sep-22 A	26-Oct-22 A			100%
P4-5660	Bedding and Pipe Laying (Twins DN700)	8	04-Nov-22 A	11-Nov-22 A			100%
P4-5665	RC Works Inspection Chamber and Air Valve Chamber CHB677	45	04-Nov-22 A	27-Dec-22 A			100%
P4-5670	Backfilling of drain to at grade level	45	16-Dec-22 A	11-Feb-23 A			100%
Gang 4		1038	29-Sep-22 A	26-Nov-25	-17		81.27%
Rising Main CHB50 to CHB120 (70M) Gang 4-1		127	29-Sep-22 A	29-Mar-23 A			100%
P4-6080	Sheet Pile Installation for open trench	49	29-Sep-22 A	25-Nov-22 A			100%
P4-6090	Soft Excavation to 1st strut level	57	17-Oct-22 A	21-Dec-22 A			100%
P4-6100	Installation of strut S1	58	24-Oct-22 A	24-Dec-22 A			100%
P4-6110	Soft Excavation to F.L.	42	28-Oct-22 A	30-Dec-22 A			100%
P4-6140	Bedding and Pipe Laying (Twins DN700)	21	10-Dec-22 A	28-Feb-23 A			100%
P4-6145	RC Works Inspection Chamber and Air Valve Chamber	45	10-Dec-22 A	07-Mar-23 A			100%
P4-6150	Backfilling of drain to at grade level	45	03-Jan-23 A	29-Mar-23 A			100%
Rising Main CHB371 to CHB493 (122M) Gang 4-2		101	01-Apr-23 A	20-Sep-23 A			100%
P4-6410	Sheet Pile Installation for open trench	32	01-Apr-23 A	13-May-23 A			100%
P4-6420	Soft Excavation to 1st strut level	34	04-Apr-23 A	16-May-23 A			100%
P4-6430	Installation of strut S1	32	10-Apr-23 A	23-May-23 A			100%
P4-6440	Soft Excavation to F.L.	31	12-May-23 A	19-Jun-23 A			100%
P4-6450	Bedding and Pipe Laying (Twins DN700)	15	20-Jul-23 A	04-Aug-23 A			100%
P4-6455	RC Works Inspection Chamber and Air Valve Chamber	36	20-Jul-23 A	25-Aug-23 A			100%
P4-6460	Backfilling of drain to at grade level	24	14-Aug-23 A	09-Sep-23 A			100%
P4-6470	Sheet Pile Extraction	24	24-Aug-23 A	20-Sep-23 A			100%
Rising Main CHB700 to CHB750 (50M) Gang 4-3		260	04-Dec-23 A	16-Jul-25	55		72.65%
CHB700-CHB720 (20M)		166	04-Dec-23 A	02-Jun-25	74		82.08%
P4-5680	Sheet Pile Installation for open trench	13	04-Dec-23 A	01-Feb-24 A			100%
P4-5690	Soft Excavation to 1st strut level	13	14-Dec-23 A	29-Dec-23 A			100%
P4-5700	Installation of strut S1	18	01-May-24 A	21-May-24 A			100%
P4-5710	Wailing welding and testing	5	21-May-24 A	25-May-24 A			100%
P4-5730	Soft Excavation to F.L.	13	18-Feb-25 A	22-Feb-25 A			100%
P4-5731	Concrete Blinding	5	22-Feb-25 A	27-Feb-25 A			100%
P4-5735	Bedding and Pipe Laying (Twins DN700)	30	18-Feb-25 A	21-May-25	74		33.33%
P4-5745	RC Works Inspection Chamber and Air Valve Chamber at CHB700	32	04-Jan-25 A	02-Jun-25	74		70.24%
CHB720-CHB750 (30M)		223	04-Dec-24 A	16-Jul-25	55		68.16%
P4-5751	Sheet Pile Installation for open trench	18	04-Dec-24 A	01-Feb-25 A			100%
P4-5752	Soft Excavation to 1st strut level	5	03-Feb-25 A	10-Feb-25 A			100%
P4-5753	Installation of strut S1	20	04-Feb-25 A	17-Feb-25 A			100%
P4-5754	Wailing welding and testing	5	04-Feb-25 A	17-Feb-25 A			100%
P4-5755	Soft Excavation to F.L. & welding for lagging plate around existing pipe	40	28-Feb-25 A	12-Jun-25	55		0%
P4-5756	Concrete Blinding	5	13-Jun-25	18-Jun-25	55		0%
P4-5757	Bedding and Pipe Laying (Twins DN700)	4	18-Jun-25*	23-Jun-25	55		0%
P4-5758	Backfilling of drain to at grade level from CHB700 to CHB750 (50m)	22	23-Jun-25	16-Jul-25	55		0%
Rising Main CHB750 to CHB867 (118M) Gang 4-4		272	01-Dec-23 A	29-Jul-25	43		69.47%
CHB750-CHB810 (60M)		212	04-Dec-24 A	29-Jul-25	43		60.83%
P4-5759	Sheet Pile Installation for open trench	37	04-Dec-24 A	15-Jan-25 A			100%
P4-5769	Soft Excavation to 1st strut level	37	19-Dec-24 A	02-May-25	43		94.59%
P4-5779	Installation of strut S1	40	09-Jan-25 A	23-May-25	43		45%
P4-5789	Wailing welding and testing	10	23-May-25	04-Jun-25	43		0%
P4-5799	Soft Excavation to F.L.	35	04-Jun-25	12-Jul-25	43		0%
P4-5809	Concrete Blinding	10	12-Jul-25	23-Jul-25	43		0%
P4-5819	Bedding and Pipe Laying (Twins DN700)	6	23-Jul-25	29-Jul-25	43		0%
CHB810-CHB867 (57M)		269	01-Dec-23 A	25-Jul-25	46		70.25%
P4-5760	Sheet Pile Installation for open trench	44	01-Dec-23 A	19-Jan-24 A			100%
P4-5770	Soft Excavation to 1st strut level	51	20-Jan-24 A	16-Mar-24 A			100%
P4-5780	Installation of strut S1	52	01-May-24 A	27-Jun-24 A			100%
P4-5781	Wailing welding and testing	10	28-Jun-24 A	09-Jul-24 A			100%
P4-5810	Soft Excavation to F.L.	35	30-Sep-24 A	07-Nov-24 A			100%
P4-5811	Concrete Blinding	10	31-Dec-24 A	10-Jan-25 A			100%
P4-5820	Bedding and Pipe Laying (Twins DN700)	7	21-Feb-25 A	28-Feb-25 A			100%
P4-5825	RC Works Inspection Chamber at CHB867	40	18-Jan-25 A	12-Jun-25	46		0%
P4-5830	Backfilling of drain to at grade level from CHB750 to CHB867	40	13-Jun-25	25-Jul-25	46		0%
Rising Main CHB867 to CHB974 (107M) Gang 4-5		383	01-Dec-23 A	26-Nov-25	-17		49.28%
CHB867-CHB900 (33M)		147	01-Dec-23 A	25-Jun-25	86		64.44%
P4-6330	Sheet Pile Installation for open trench	44	01-Dec-23 A	19-Jan-24 A			100%



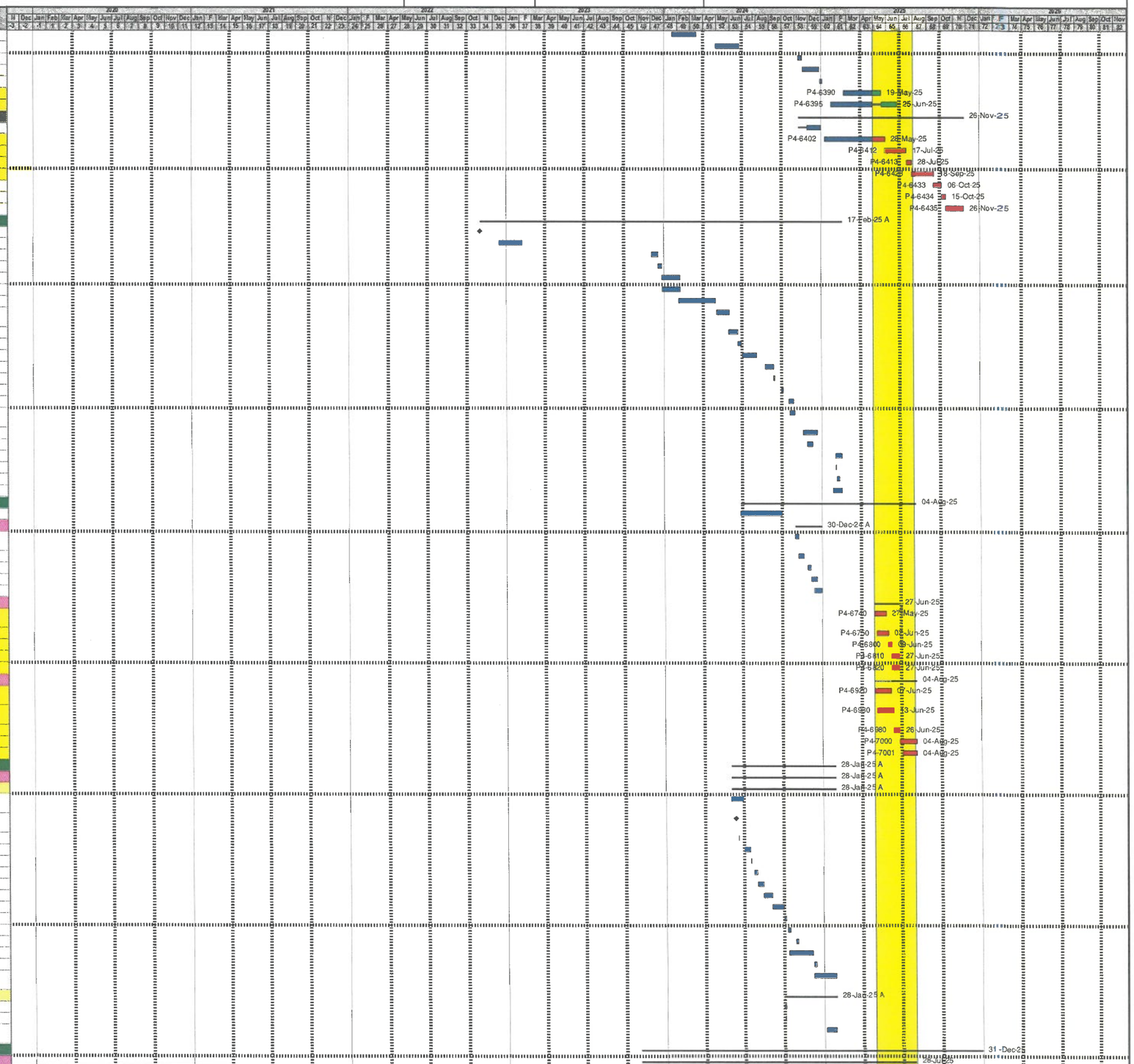
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P4-6340	Soft Excavation to 1st strut level	51	20-Jan-24 A	16-Mar-24 A			100%
P4-6350	Installation of strut S1	50	01-May-24 A	25-Jun-24 A			100%
P4-6351	Waling welding and testing	8	09-Nov-24 A	18-Nov-24 A			100%
P4-6380	Soft Excavation to F.L.	35	20-Nov-24 A	28-Dec-24 A			100%
P4-6381	Concrete Blinding	5	28-Dec-24 A	03-Jan-25 A			100%
P4-6390	Bedding and Pipe Laying (Twins DN700)	18	21-Feb-25 A	19-May-25	86		0%
P4-6395	RC Works DAV Chamber at CHB960	40	23-Jan-25 A	25-Jun-25	86		13.92%
CHB900-CHB974 (74M)		347	09-Nov-24 A	26-Nov-25	-17		43.91%
P4-6401	Sheet Pile Installation for open trench	46	09-Nov-24 A	30-Dec-24 A			100%
P4-6402	Soft Excavation to 1st strut level	46	08-Jan-25 A	28-May-25	-17		43.48%
P4-6412	Installation of strut S1	46	28-May-25	17-Jul-25	-17		0%
P4-6413	Waling welding and testing	10	17-Jul-25	28-Jul-25	-17		0%
P4-6423	Soft Excavation to F.L.	50	28-Jul-25	18-Sep-25	-17		0%
P4-6433	Concrete Blinding	15	18-Sep-25	06-Oct-25	-17		0%
P4-6434	Bedding and Pipe Laying (Twins DN700)	8	06-Oct-25	15-Oct-25	-17		0%
P4-6435	Backfilling of drain to at grade level from CHB900 to CHB974	39	15-Oct-25*	26-Nov-25	-17		0%
Rising Main Installation by Pipe Jacking CHB560 to CHB500 (60M)		773	31-Oct-22 A	17-Feb-25 A			100%
P4-5405	Tentative Completion Date of Ho Sheung Heung Pai Lau	0		31-Oct-22 A			100%
P4-5407	Haul Road Modification	24	16-Dec-22 A	07-Feb-23 A			100%
P4-5410	Site Setup, Set up TTA & Plant Mobilization	14	04-Dec-23 A	18-Dec-23 A		6	100%
P4-5420	Instrumentation Installation and Monitoring Works	6	18-Dec-23 A	27-Dec-23 A		3	100%
P4-5430	ELS for Launching Pit (4 layers of strut)	38	27-Dec-23 A	06-Feb-24 A		4	100%
P4-5440	ELS for Receiving Pit (4 layers of strut)	38	27-Dec-23 A	06-Feb-24 A		3	100%
P4-5460	Set up and Assembly TBM	34	05-Feb-24 A	30-Apr-24 A		2	100%
P4-5470	Pipe Jacking Twin DN700 housed in DN3000 Sleeve Pipe from CHB560 to CHB500 (60m, 2.7m/day) [Commenced 3-May-2024]	20	03-May-24 A	31-May-24 A		0	100%
P4-5480	Removal of TBM	19	31-May-24 A	20-Jun-24 A		0	100%
P4-5490	Rising main pipe jacking & grouting	5	21-Jun-24 A	29-Jun-24 A		3	100%
P4-5491	Installation works for Trolleys to house twin DN700 DI pipes at jacking pit CHB560	32	01-Jul-24 A	03-Aug-24 A			100%
P4-5492	Lay twins DN700 (sinotec) pipe at CHB560	18	24-Aug-24 A	11-Sep-24 A			100%
P4-5493	Trim concrete sleeve for pipe installation at CH490-CH500	3	12-Sep-24 A	14-Sep-24 A			100%
P4-5502	Annulus grout works	4	30-Sep-24 A	04-Oct-24 A			100%
P4-5506	Lay twins DN700 (sinotec) pipe at CH490-CH500	9	18-Oct-24 A	28-Oct-24 A			100%
P4-5508	Dismantling and removal of temporary work equipments (guide rail, thrust wall) & extraction of sheet piles at CH560	11	21-Oct-24 A	31-Oct-24 A			100%
P4-5509	Construction of inspection chamber at CH487	28	20-Nov-24 A	21-Dec-24 A		1	100%
P4-5510	Lay twins DN700 (sinotec) pipe connection at CH560	11	30-Nov-24 A	11-Dec-24 A			100%
P4-5519	Backfilling to at grade level at pit CHB500	21	01-Feb-25 A	17-Feb-25 A		2	100%
P4-5520	Water pressure test from CHB 480 to CHB 600	4	03-Feb-25 A	04-Feb-25 A			100%
P4-5529	Backfilling to at grade level at pit CHB560	29	05-Feb-25 A	11-Feb-25 A			100%
P4-5530	Extract sheet pile and Reinstatement of DSD Maintenance Access Road	14	28-Jan-25 A	17-Feb-25 A			100%
NS 250 PE Pipe Installation (From KT6.07A to KT6.01) [190.225m]		341	26-Jun-24 A	04-Aug-25	287		74.06%
P4-6239	Pipe alignment revised and DSD comments sought (to be confirmed)	34	26-Jun-24 A	30-Sep-24 A			100%
Sewer Pipeline FMH_KT6.07 to FMH_KT6.06A [23.315m]		55	31-Oct-24 A	30-Dec-24 A			100%
P4-7011	Sheet Pile Installation for open trench (2.5m embedment depth, 3.5m retaining height)	9	31-Oct-24 A	08-Nov-24 A			100%
P4-7021	Soft Excavation to F.L. +3.2mPD	9	09-Nov-24 A	19-Nov-24 A			100%
P4-7051	Bedding and Pipe Laying (NS 250 HDPE Pipe)	3	30-Nov-24 A	06-Dec-24 A			100%
P4-7061	RC Works of KT6.06A	14	07-Dec-24 A	21-Dec-24 A			100%
P4-7071	Backfilling of drain to at grade level	14	12-Dec-24 A	30-Dec-24 A			100%
Sewer Pipeline FMH_KT6.06A to FMH_KT6.04A [62.86m] (53.153m+9.707m)		54	30-Apr-25 A	27-Jun-25	-13		0%
P4-6740	Sheet Pile Installation for open trench (2.5m embedment depth, 3.5m retaining height)	25	30-Apr-25 A	27-May-25	-147		0%
P4-6750	Soft Excavation to F.L. +3.2mPD	25	06-May-25	02-Jun-25	-13		0%
P4-6800	Bedding and Pipe Laying (NS 250 HDPE Pipe)	7	02-Jun-25	09-Jun-25	-13		0%
P4-6810	RC Works of KT6.05A and KT6.04A	17	09-Jun-25	27-Jun-25	-13		0%
P4-6820	Backfilling of drain to at grade level and extraction of sheet pile	18	09-Jun-25	27-Jun-25	-13		0%
Sewer Pipeline FMH_KT6.04A to FMH_KT6.01A [127.369m] (16.208m+59.625m+51.536m)		88	30-Apr-25 A	04-Aug-25	-47		0%
P4-6920	Sheet Pile Installation to proposed toe level +0.7mPD (2.5m embedment depth, 3.5m retaining height)	35	30-Apr-25 A	07-Jun-25	-147		0%
P4-6930	Lower down existing ground +6.7mPD to form final excavation level +3.2mPD with 35 degree cut slope at other side	35	07-May-25	13-Jun-25	-147		0%
P4-6980	Bedding and Pipe Laying (NS 250 HDPE Pipe)	12	13-Jun-25	26-Jun-25	-147		0%
P4-7000	RC Works of KT6.03A, KT6.02A and KT6.01A	35	27-Jun-25	04-Aug-25	-147		0%
P4-7001	Backfilling of drain to at grade level and extraction of sheet pile	30	03-Jul-25	04-Aug-25	-47		0%
Drainage Outfall constuction by Open Cut		207	01-Jun-24 A	28-Jan-25 A			100%
Outfall_5105		207	01-Jun-24 A	28-Jan-25 A			100%
Phase 1		207	01-Jun-24 A	28-Jan-25 A			100%
P4-OF5105-020	Obtain approval for Temporary Works Design, Method Statement , and ICE Certificate	27	01-Jun-24 A	29-Jun-24 A			100%
P4-OF5105-026	PMI notice for revised layout of drainage and outfall along SY River near Outfall 5105 (Notified 11 June 2024)	0	11-Jun-24 A				100%
P4-OF5105-027	CCTV Inspection to existing underground drainage pipe for Outfall 5105	1	18-Jun-24 A	18-Jun-24 A			100%
P4-OF5105-028	Removal of Grasscrete, concrete materials, existing U-channel (30m)	10	02-Jul-24 A	15-Jul-24 A		0	100%
P4-OF5105-029	Underground Utilities Detection	2	16-Jul-24 A	17-Jul-24 A			100%
P4-OF5105-030	Expose 11kV cable (30m)	6	24-Jul-24 A	31-Jul-24 A			100%
P4-OF5105-031	Installation of sheet piling (30m)	12	01-Aug-24 A	14-Aug-24 A			100%
P4-OF5105-041	Excavation to founding level to form platform (for crawler crane lifting)	19	15-Aug-24 A	03-Sep-24 A			100%
P4-OF5105-045	Erection of formwork and base slab concrete blinding	18	04-Sep-24 A	30-Sep-24 A			100%
P4-OF5105-046	Concrete pipe saw cutting	4	01-Oct-24 A	05-Oct-24 A			100%
P4-OF5105-051	DN2100 Pipe Laying	4	10-Oct-24 A	15-Oct-24 A			100%
P4-OF5105-071	Concrete surround of DN2100 Concrete Pipe	6	28-Oct-24 A	02-Nov-24 A			100%
P4-OF5105-072	Outfall_5105 and Manhole SMH_KT5105A Construction	19	12-Oct-24 A	07-Dec-24 A			100%
P4-OF5105-081	Backfilling	7	09-Dec-24 A	14-Dec-24 A			100%
P4-OF5105-091	Reinstatement works (grasscrete, apron, U-channel, and DSD maintenance access paving)	45	09-Dec-24 A	28-Jan-25 A			100%
Phase 2		108	30-Sep-24 A	28-Jan-25 A			100%
P4-5064	Formwork erection for Outfall 5103 pipe concrete plug	4	30-Sep-24 A	04-Oct-24 A			100%
P4-5065	Plug end construction for existing Outfall_5103	2	03-Oct-24 A	04-Oct-24 A			100%
P4-OF5105-101	Construction of remaining DN2100 pipe and cycle track and footpath reinstatement	21	06-Jan-25 A	28-Jan-25 A			100%
Reinstatement		715	01-Nov-23 A	31-Dec-25	52		68.55%
Slope Reinstatement		413	01-Nov-23 A	28-Jul-25	95		80.11%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

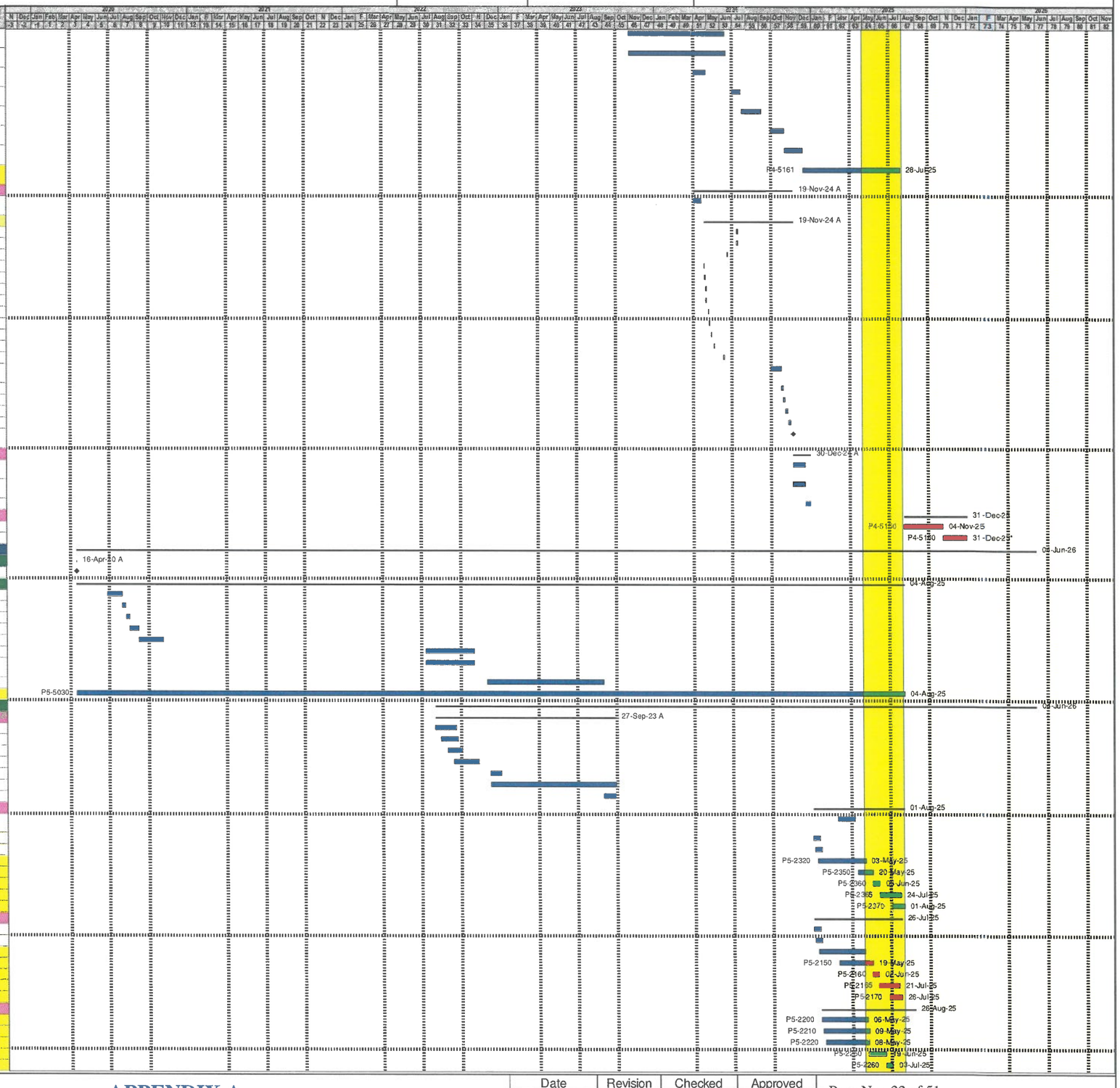
APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P4-5101	Grasscrete laying works for river embankment along Sheung Yue River from CHB120 - CHB200	28	01-Nov-23 A	13-Jun-24 A			100%
P4-5111	Grasscrete laying works for river embankment along Sheung Yue River from CHB200 - CHB350	53	01-Nov-23 A	15-Jun-24 A			100%
P4-5112	Grasscrete laying works for river embankment along Sheung Yue River from CHB430 - CHB500	25	02-Apr-24 A	29-Apr-24 A			100%
P4-5121	Grasscrete laying works for river embankment along Sheung Yue River from CHB500 - CHB560	21	02-Jul-24 A	21-Jul-24 A			100%
P4-5131	Grasscrete laying works for river embankment along Sheung Yue River from CHB560 - CHB670	39	24-Jul-24 A	07-Sep-24 A			100%
P4-5141	Grasscrete laying works for river embankment along Sheung Yue River from CHB670 - CHB750	28	30-Sep-24 A	31-Oct-24 A			100%
P4-5151	Grasscrete laying works for river embankment along Sheung Yue River from CHB750 - CHB860	40	01-Nov-24 A	12-Dec-24 A			100%
P4-5161	Grasscrete laying works for river embankment along Sheung Yue River from CHB860 - CHB980	43	13-Dec-24 A	28-Jul-25	95		0%
Road Reinstatement for Permanent DSD Maintenance Access		212	02-Apr-24 A	19-Nov-24 A			100%
P4-5317	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	25	02-Apr-24 A	20-Apr-24 A			100%
CHB120 to CHB390		190	26-Apr-24 A	19-Nov-24 A			100%
P4-5318	Bay 39 - Erect Rebar & Formwork and Pouring concrete to slab	2	12-Jul-24 A	15-Jul-24 A			100%
P4-5328	Bay 40 - Erect Rebar & Formwork and Pouring concrete to slab	2	12-Jul-24 A	15-Jul-24 A			100%
P4-5338	Bay 41 - Erect Rebar & Formwork and Pouring concrete to slab	2	19-Jun-24 A	20-Jun-24 A			100%
P4-5348	Bay 42 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Apr-24 A	27-Apr-24 A			100%
P4-5358	Bay 43 - Erect Rebar & Formwork and Pouring concrete to slab	2	27-Apr-24 A	30-Apr-24 A			100%
P4-5368	Bay 44 - Erect Rebar & Formwork and Pouring concrete to slab	2	30-Apr-24 A	02-May-24 A			100%
P4-5378	Bay 45 - Erect Rebar & Formwork and Pouring concrete to slab	2	30-Apr-24 A	02-May-24 A			100%
P4-5388	Bay 46 - Erect Rebar & Formwork and Pouring concrete to slab	2	06-May-24 A	08-May-24 A			100%
P4-5398	Bay 47 - Erect Rebar & Formwork and Pouring concrete to slab	2	08-May-24 A	10-May-24 A			100%
P4-5408	Bay 48 - Erect Rebar & Formwork and Pouring concrete to slab	2	13-May-24 A	14-May-24 A			100%
P4-5418	Bay 49 - Erect Rebar & Formwork and Pouring concrete to slab	2	20-May-24 A	21-May-24 A			100%
P4-5428	Bay 50 - Erect Rebar & Formwork and Pouring concrete to slab	2	10-Jun-24 A	13-Jun-24 A			100%
P4-5429	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	21	30-Sep-24 A	24-Oct-24 A			100%
P4-5438	Bay 52a and 52b - Erect Rebar & Formwork and Pouring concrete to slab	4	24-Oct-24 A	28-Oct-24 A			100%
P4-5448	Bay 51 - Erect Rebar & Formwork and Pouring concrete to slab	4	29-Oct-24 A	01-Nov-24 A			100%
P4-5458	Bay 53 - Erect Rebar & Formwork and Pouring concrete to slab	6	02-Nov-24 A	08-Nov-24 A			100%
P4-5468	Bay 54 - Erect Rebar & Formwork and Pouring concrete to slab	4	09-Nov-24 A	14-Nov-24 A			100%
P4-5498	Report Completion of DSD maintenance access road reinstatement works and grant access for use to HSH local residents	0		19-Nov-24 A			100%
Additional Landscaping Works		36	20-Nov-24 A	30-Dec-24 A			100%
P4-Planting-0030	Shrubs Planting 878m along Sheung Yue River (6nos. Ficus microcarpa (golden) x 3m intervals) (500mm)	27	20-Nov-24 A	18-Dec-24 A			100%
P4-Planting-0040	Shrubs Planting 878m along Sheung Yue River (6 nos. Lxora chinensis x 3m intervals) (500mm)	27	20-Nov-24 A	18-Dec-24 A			100%
P4-Planting-0050	Planter watering	9	18-Dec-24 A	30-Dec-24 A			100%
Remaining Reinstatement Works		136	04-Aug-25	31-Dec-25	-47		0%
P4-5150	Utilities Works (Telecom & electricity)	84	04-Aug-25	04-Nov-25	-47	14	0%
P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	52	04-Nov-25	31-Dec-25*	-47	30	0%
Portion 5 - Sewage Rising Main		2023	14-Apr-20 A	04-Jun-26	12		82.05%
Site Possession		0	16-Apr-20 A	16-Apr-20 A			0%
P5-1000	Possession of site - Portion 5	0	16-Apr-20 A			0	100%
Preparation Works		1663	14-Apr-20 A	04-Aug-25	286		94.66%
P5-1010	Utilities Detection in Portion 5	27	26-Jun-20 A	31-Jul-20 A		2	100%
P5-1020	Inspection Pit	36	01-Aug-20 A	08-Aug-20 A		4	100%
P5-1030	Coordination with UU owner to arrange diversion / abandon / protection	27	10-Aug-20 A	17-Aug-20 A		3	100%
P5-1040	Provision of alternative Route / Preparation for TTA	16	18-Aug-20 A	08-Sep-20 A		4	100%
P5-1050	Circulation & Approval of TTAs	18	08-Sep-20 A	03-Nov-20 A		0	100%
P5-5010	Application for the relocation of existing Board Band Cable and Street Light	95	11-Jul-22 A	01-Nov-22 A		0	100%
P5-5015	Application of excavation Permit for the relocation of existing Board Band Cable and Street Light	95	11-Jul-22 A	01-Nov-22 A		0	100%
P5-5020	Relocation work of existing Board Band Cable and Street Light	97	02-Dec-22 A	31-Aug-23 A		0	100%
P5-5030	Tree Protection and Preservation	1663	14-Apr-20 A	04-Aug-25	286	4	94.66%
Sewage Rising Main Installation by Open Cut (CHB1056 to CHB1557)		1265	02-Aug-22 A	04-Jun-26	12		71.31%
CHB1200 - CHB1300 (100m)		403	02-Aug-22 A	27-Sep-23 A			100%
P5-2000	Sheet Pile Installation for open trench	37	02-Aug-22 A	20-Sep-22 A		2	100%
P5-2010	Soft Excavation to 1st strut level	35	15-Aug-22 A	24-Sep-22 A		2	100%
P5-2020	Installation of strut S1	26	01-Sep-22 A	03-Oct-22 A		2	100%
P5-2050	Soft Excavation to F.L.	48	15-Sep-22 A	12-Nov-22 A		2	100%
P5-2060	Bedding & Pipe Laying (Twins DN700)	21	10-Dec-22 A	04-Jan-23 A		2	100%
P5-2065	RC Works Inspection Chamber and Air Valve Chamber	45	10-Dec-22 A	27-Sep-23 A			100%
P5-2070	Backfilling to at grade level	45	31-Aug-23 A	27-Sep-23 A		2	100%
CHB1056 - CHB1102 (46m)		191	02-Jan-25 A	01-Aug-25	156		54.65%
P5-1-RECORD-05	Method Statement of Construction of Rising Mains by Open trench Method Review by PM	39	28-Feb-25 A	09-Apr-25 A			100%
P5-2300	Sheet Pile Installation for open trench	15	02-Jan-25 A	17-Jan-25 A		2	100%
P5-2310	Soft Excavation to 1st strut level	15	06-Jan-25 A	21-Jan-25 A		2	100%
P5-2320	Installation of strut S1	20	11-Jan-25 A	03-May-25	156	2	83.33%
P5-2350	Soft Excavation to F.L.	15	14-Apr-25 A	20-May-25	156	2	0%
P5-2360	Bedding and Pipe Laying (Twins DN700)	14	21-May-25	05-Jun-25	156	2	0%
P5-2365	RC Works Inspection Chamber and Air Valve Chamber at CHB1050	46	06-Jun-25	24-Jul-25	156		0%
P5-2370	Backfilling to at grade level	29	03-Jul-25	01-Aug-25	156	2	0%
CHB1102 - CHB1151 (49m)		185	02-Jan-25 A	26-Jul-25	-78		56.61%
P5-2100	Sheet Pile Installation for open trench	15	02-Jan-25 A	17-Jan-25 A		2	100%
P5-2110	Soft Excavation to 1st strut level	15	06-Jan-25 A	21-Jan-25 A		2	100%
P5-2120	Installation of strut S1	21	13-Jan-25 A	30-Apr-25 A		2	100%
P5-2150	Soft Excavation to F.L.	50	28-Feb-25 A	19-May-25	-78	2	68.44%
P5-2160	Bedding and Pipe Laying (Twins DN700)	13	19-May-25	02-Jun-25	-78	2	0%
P5-2165	RC Works Inspection Chamber and Air Valve Chamber at CHB1127	45	03-Jun-25	21-Jul-25	-78		0%
P5-2170	Backfilling to at grade level	27	27-Jun-25	26-Jul-25	-78	2	0%
CHB1151 - CHB1200 (49m)		198	17-Jan-25 A	26-Aug-25	29		44.88%
P5-2200	Sheet Pile Installation for open trench	15	17-Jan-25 A	06-May-25	29	2	65.47%
P5-2210	Soft Excavation to 1st strut level	15	22-Jan-25 A	09-May-25	29	2	43.07%
P5-2220	Installation of strut S1	21	27-Jan-25 A	08-May-25	29	2	64.02%
P5-2250	Soft Excavation to F.L.	39	08-May-25	19-Jun-25	29	2	0%
P5-2260	Bedding & Pipe Laying (Twins DN700)	12	19-Jun-25	03-Jul-25	29	2	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

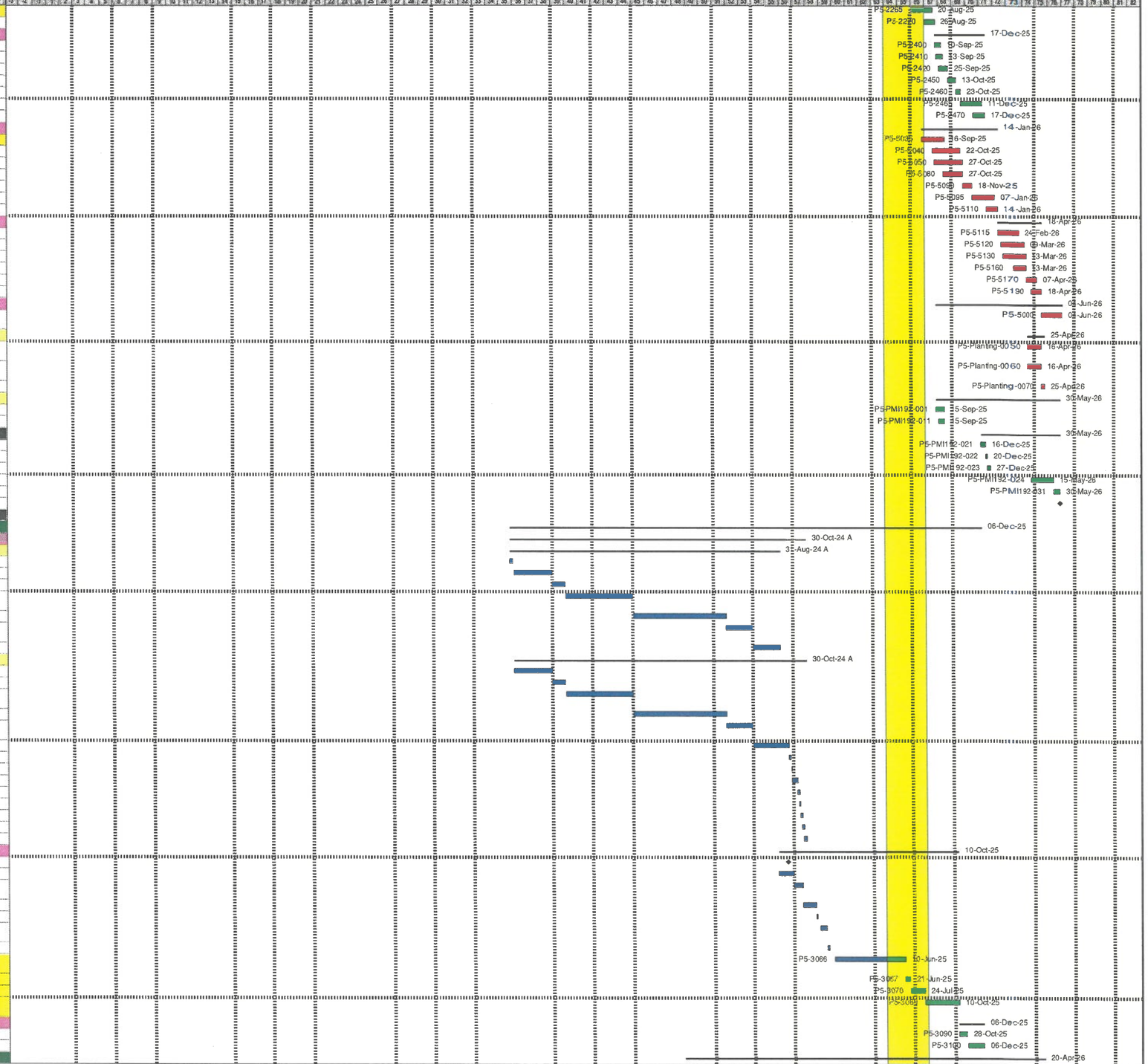
APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	VAR	Duration % Complete
P5-2265	RC Works Inspection Chamber and Air Valve Chamber	46	03-Jul-25	20-Aug-25	29		0%
P5-2270	Backfilling to at grade level	22	02-Aug-25	26-Aug-25	29	2	0%
CHB1300 - CHB 1359 (59m)		105	26-Aug-25	17-Dec-25	29		0%
P5-2400	Sheet Pile Installation for open trench	15	26-Aug-25	10-Sep-25	29	2	0%
P5-2410	Soft Excavation to 1st strut level	15	29-Aug-25	13-Sep-25	29	2	0%
P5-2420	Installation of strut S1	20	04-Sep-25	25-Sep-25	29	2	0%
P5-2450	Soft Excavation to F.L.	15	25-Sep-25	13-Oct-25	29	2	0%
P5-2460	Bedding and Pipe Laying (Twins DN700)	10	13-Oct-25	23-Oct-25	29	2	0%
P5-2465	RC Works Inspection Chamber and Air Valve Chamber at CHB1337	45	23-Oct-25	11-Dec-25	29		0%
P5-2470	Backfilling to at grade level	25	21-Nov-25	17-Dec-25	29	2	0%
CHB1359 - CHB 1478 (119m)		157	26-Jul-25	14-Jan-26	-78		0%
P5-5035	Sheet Pile Installation for open trench	49	26-Jul-25	16-Sep-25	-78	2	0%
P5-5040	Soft Excavation to 1st strut level	57	21-Aug-25	22-Oct-25	-78	2	0%
P5-5050	Installation of strut S1	58	25-Aug-25	27-Oct-25	-78	2	0%
P5-5080	Soft Excavation to F.L.	39	13-Sep-25	27-Oct-25	-78	2	0%
P5-5090	Bedding and Pipe Laying (Twins DN700)	20	27-Oct-25	18-Nov-25	-78	2	0%
P5-5095	RC Works Inspection Chamber and Air Valve Chamber at CHB1457	45	18-Nov-25	07-Jan-26	-78		0%
P5-5110	Backfilling to at grade level	20	20-Dec-25	14-Jan-26	-78	2	0%
CHB1478 - CHB 1557 (79m)		84	14-Jan-26	18-Apr-26	-78		0%
P5-5115	Sheet Pile Installation for open trench	36	14-Jan-26	24-Feb-26	-78	2	0%
P5-5120	Soft Excavation to 1st strut level	39	23-Jan-26	09-Mar-26	-78	2	0%
P5-5130	Installation of strut S1	40	27-Jan-26	13-Mar-26	-78	2	0%
P5-5160	Soft Excavation to F.L.	21	14-Feb-26	13-Mar-26	-78	2	0%
P5-5170	Bedding and Pipe Laying (Twins DN700)	20	13-Mar-26	07-Apr-26	-78	2	0%
P5-5190	Backfilling to at grade level	20	25-Mar-26	18-Apr-26	-78	2	0%
Reinstatement		254	28-Aug-25	04-Jun-26	12		0%
P5-5000	Underground Utilities & Road reinstatement and Reinstatement of disturbed landscape area	42	18-Apr-26	04-Jun-26	-78	14	0%
Additional Landscaping Works		36	16-Mar-26	25-Apr-26	-42		0%
P5-Planting-0050	Shrubs Planting 591m along Shek Sheung River (6nos. Ficus microcarpa (golden) x 3m intervals) (500mm)	27	16-Mar-26	16-Apr-26	-42		0%
P5-Planting-0060	Shrubs Planting 591m along Shek Sheung River (6 nos. Lxora chinensis x 3m intervals) (500mm)	27	16-Mar-26	16-Apr-26	-42		0%
P5-Planting-0070	Planter watering	9	16-Apr-26	25-Apr-26	-42		0%
PMI No. 192 - Additional Soiling, Planting & Assoc. Reinstatement Works		249	26-Aug-25	30-May-26	17		0%
P5-PMI192-001	5 tree stumps (existing tree pits), debris and weeds removal works	19	26-Aug-25	15-Sep-25	173	6	0%
P5-PMI192-011	Removal of 14 sets of existing tree grilles	12	01-Sep-25	15-Sep-25	173		0%
Tree Plantation (14 Lagerstroemia Speciosa Tree)		154	06-Dec-25	30-May-26	17		0%
P5-PMI192-021	Installation of 2 Trees (at existing pits) near CHB1060	9	06-Dec-25	16-Dec-25	97	2	0%
P5-PMI192-022	Installation of 1 Tree (at existing pit) near CHB1150	4	16-Dec-25	20-Dec-25	97	1	0%
P5-PMI192-023	Installation of 1Tree (at existing pit) near CHB1210	4	20-Dec-25	27-Dec-25	97	1	0%
P5-PMI192-024	Installation of 10 Trees (at existing pits) located between CHB1470 to CHB1569	44	25-Mar-26	15-May-26	17	10	0%
P5-PMI192-031	Reinstatement of 14 sets of tree grilles after Tree planting	12	15-May-26	30-May-26	17		0%
P5-PMI192-041	Obtain PM/Supervisor Acceptance for Tree Planting works	0		30-May-26	19		0%
Establishment Works (365 Days)		0			0		0%
CHB982 to CHB1046 [64M] Sewage Rising Main Installation across Sheung Yue River by Pipejacking		971	24-Dec-22 A	06-Dec-25	97		79.05%
ELS		506	24-Dec-22 A	30-Oct-24 A			100%
Launching Pit CHB 982		596	24-Dec-22 A	31-Aug-24 A			100%
P5-3020	ELS (4.5m x 3.5m; 10 layers of strut)	4	24-Dec-22 A	31-Dec-22 A		3	100%
P5-3021	Covid19 5th Wave CE-101 Works Disruption (for record)	80	02-Jan-23 A	31-Mar-23 A			100%
P5-3031	ELS (4.5m x 3.5m; 10 layers of strut)	22	01-Apr-23 A	29-Apr-23 A			100%
P5-3110	Wet Season 2023 May-Sep (56.5 days Inclement Weather EOT submitted in 2023)	50	01-May-23 A	30-Sep-23 A			100%
P5-3120	ELS (4.5m x 3.5m; 10 layers of strut)	46	02-Oct-23 A	30-Apr-24 A			100%
P5-3130	Wet Season 2024 Mar-Jun (33 days inclement Weather EOT submitted to-date 2024)	29	30-Apr-24 A	29-Jun-24 A			100%
P5-3140	ELS (4.5m x 3.5m; 10 layers of strut)	60	01-Jul-24 A	31-Aug-24 A			100%
Receiving Pit CHB 1046		593	02-Jan-23 A	30-Oct-24 A			100%
P5-3029	Covid19 5th Wave CE-101 Works Disruption (for record)	80	02-Jan-23 A	31-Mar-23 A			100%
P5-3030	ELS (7m x 3.5m; 10 layers of strut)	22	01-Apr-23 A	29-Apr-23 A		4	100%
P5-3150	Wet Season 2023 May-Sep (56.5 days Inclement Weather EOT submitted in 2023)	50	01-May-23 A	30-Sep-23 A			100%
P5-3160	ELS (7m x 3.5m; 10 layers of strut)	46	02-Oct-23 A	30-Apr-24 A			100%
P5-3170	Wet Season 2024 Mar-Jun (33 days inclement Weather EOT submitted to-date 2024)	29	30-Apr-24 A	29-Jun-24 A			100%
P5-3180	ELS (7m x 3.5m; 10 layers of strut)	60	01-Jul-24 A	20-Sep-24 A			100%
P5-3190	Concrete Blinding	4	21-Sep-24 A	25-Sep-24 A			100%
P5-3230	Drainage system setup	2	26-Sep-24 A	27-Sep-24 A			100%
P5-3250	Dismantle wailing and strut from 10th to 6th layer	10	28-Sep-24 A	10-Oct-24 A			100%
P5-3260	Grouting equipment set-up and dewatering works	3	10-Oct-24 A	14-Oct-24 A			100%
P5-3270	Pre-grouting for pipe jacking works	3	14-Oct-24 A	16-Oct-24 A			100%
P5-3280	Erection of formwork for working platform	4	16-Oct-24 A	21-Oct-24 A			100%
P5-3290	Working platform construction on surface level for lifting works	4	21-Oct-24 A	25-Oct-24 A			100%
P5-3300	Grouting works at receiving pit CHB1046	4	25-Oct-24 A	30-Oct-24 A			100%
Pipe Jacking		398	28-Aug-24 A	10-Oct-25	97		62.06%
P5-3040	TBM shield head available for delivery (13-Sep-24)	0	16-Sep-24 A			0	100%
P5-3050	Set up and Assembly TBM (3m dia.) and thrust wall at Jacking Pit CH982	32	26-Aug-24 A	30-Sep-24 A		2	100%
P5-3060	Pipe Jacking 300mm dia. steel casing from CHB 982 to CHB 1046 (64m, 2.7m/day) [Commenced 30/Sep, Suspended 22/Oct]	28	30-Sep-24 A	22-Oct-24 A		0	100%
P5-3061	Suspension of pipe jacking due to broken TBM shield head	29	22-Oct-24 A	21-Nov-24 A			100%
P5-3062	Resumption of pipe jacking works [21-Nov-2024]	2	21-Nov-24 A	22-Nov-24 A			100%
P5-3063	Suspension of pipe jacking works due to further broken-down of TBM shield head [23-Nov-2024] - Carry out remedial works	5	30-Nov-24 A	14-Dec-24 A			100%
P5-3064	Resumption of remaining pipe jacking works	9	16-Dec-24 A	21-Dec-24 A			100%
P5-3066	Failed to pipe jack for the remaining pipe jacking works, TBM retrieval remedial works	12	31-Dec-24 A	10-Jun-25	97		0%
P5-3067	Alternate method of applied for the remaining pipe jacking works	11	11-Jun-25	21-Jun-25	97		0%
P5-3070	Removal of TBM (3m dia)	30	23-Jun-25	24-Jul-25	97	0	0%
P5-3080	Rising Main pipe laying (Triple DN700 housed in DN3000 Sleeve Pipe, 2.6m/day), Grouting and Pressure Test	71	25-Jul-25	10-Oct-25	97	3	0%
Reinstatement		53	10-Oct-25	06-Dec-25	97		0%
P5-3090	Construction of Switch Over chamber/D.A.V chamber at CHB1035	18	10-Oct-25	28-Oct-25	97	1	0%
P5-3100	Backfilling to at grade level	36	30-Oct-25	06-Dec-25	97	2	0%
CHB1680 to CHB1560 [120M] Sewage Rising Main Installation across Shek Sheung River by Pipejacking		541	22-Jan-24 A	20-Apr-26	54		40.64%



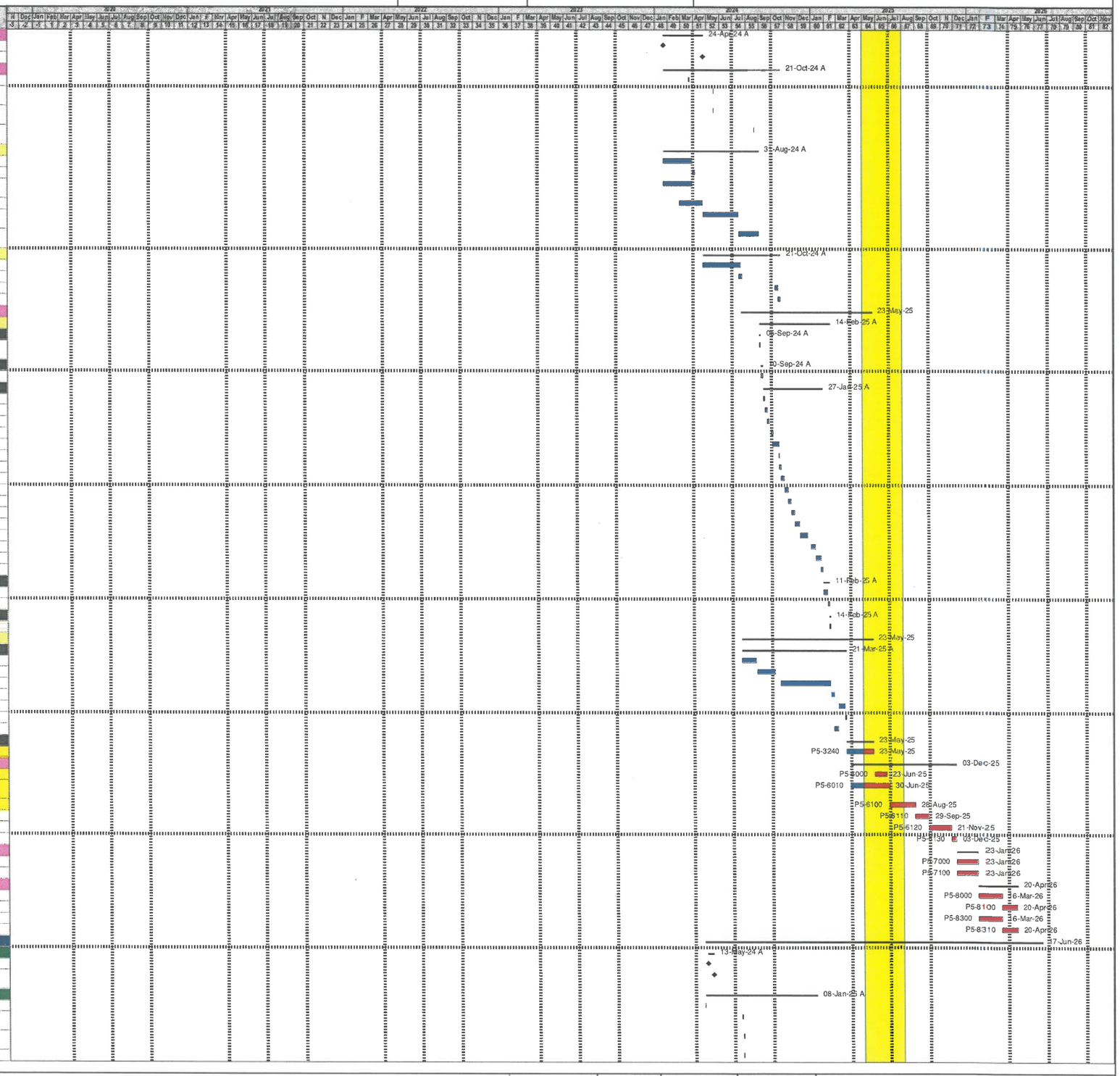
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
SITE POSSESSION		0	22-Jan-24 A	24-Apr-24 A			0%
P5-MIL-01	Possession of site - Portion 5 CHB1560 (accessed date)	0	22-Jan-24 A				100%
P5-MIL-02	Possession of site - Portion 5 CHB1680 (accessed date)	0	24-Apr-24 A				100%
PREPARATION		72	22-Jan-24 A	21-Oct-24 A			100%
P5-1-RECORD-01	NCE-110 Weak layer meet for Construction of pipe pile wall at CHB1680	1	22-Mar-24 A	23-Mar-24 A			100%
P5-1-RECORD-02	EWN-031 Complaint of noise and vibrations issued due to sheet piling works at HSH village	1	20-May-24 A	20-May-24 A			100%
P5-1-RECORD-03	NCE-114 Change of works information (from sheet pile method to clutch pile for receiving pit CHB1560) [IN-06360]	1	20-May-24 A	20-May-24 A			100%
P5-1-RECORD-04	Method Statement for ELS for receiving pit CHB1560 acceptance from PM [IN-06326]	1	22-Aug-24 A	22-Aug-24 A			100%
RECEIVING PIT CHB1560		61	22-Jan-24 A	31-Aug-24 A			100%
P5-5200	Site clearance and fencing, Set up TTA, and Plant Mobilization	61	22-Jan-24 A	30-Mar-24 A			100%
P5-8110	Set up of Wastewater Treatment Plant, Pipe, and Electricity	4	01-Apr-24 A	06-Apr-24 A			100%
P5-8120	Copndition survey, installation of monitoring system, and Ground investigation (40NTH 3-hr shift, 4 nights/week)	36	22-Jan-24 A	30-Mar-24 A			100%
P5-8130	Construction of Working Platform at Receiving Pit CHB1560	47	29-Feb-24 A	23-Apr-24 A			100%
P5-8131	Drilling works for 68nos. Pipe Piling (610 dia.) with grouting at Receiving Pit CHB1560	51	24-Apr-24 A	15-Jul-24 A			100%
P5-8140	Carry out 1st bentonite cement grout & 2nd chemical grout at Receiving Pit CHB1560	27	16-Jul-24 A	31-Aug-24 A			100%
LAUNCHING PIT CHB1680		72	24-Apr-24 A	21-Oct-24 A			100%
P5-3200	Carry out pre-grouting works at Launching Pit CHB1680	71	24-Apr-24 A	20-Jul-24 A			100%
P5-3210	Crawler Crane mobilization (16-24 July 2024)	8	16-Jul-24 A	24-Jul-24 A			100%
P5-INC-1	Inclinometer installation near CHB1698	5	10-Oct-24 A	16-Oct-24 A			100%
P5-INC-2	Inclinometer installation near CHB1688	4	17-Oct-24 A	21-Oct-24 A			100%
ELS		219	22-Jul-24 A	23-May-25	-50		90.1%
RECEIVING PIT CHB1560		123	02-Sep-24 A	14-Feb-25 A			100%
Stage 1		4	02-Sep-24 A	05-Sep-24 A			100%
P5-8150	Backfill (+3.79mPD to +5.8mPD) and form a berm (max. 30 degree temporary slope)	4	02-Sep-24 A	05-Sep-24 A			100%
Stage 2		4	06-Sep-24 A	10-Sep-24 A			100%
P5-8160	Install pipe wall to toe level	4	06-Sep-24 A	10-Sep-24 A			100%
Stage 3		100	11-Sep-24 A	27-Jan-25 A			100%
P5-3000	Excavate 500mm below 1st level walling and strut	4	11-Sep-24 A	14-Sep-24 A			100%
P5-3010	1st layer walling and strut Installation	4	16-Sep-24 A	20-Sep-24 A		1	100%
P5-8170	Dewatering 1000mm below 2nd level walling and strut	3	21-Sep-24 A	24-Sep-24 A		1	100%
P5-8180	Excavate 500mm below 2nd level walling and strut	4	30-Sep-24 A	04-Oct-24 A		1	100%
P5-8190	2nd layer walling and strut Installation	12	03-Oct-24 A	17-Oct-24 A		2	100%
P5-8191	Welding test for 2nd layer walling and strut	2	18-Oct-24 A	19-Oct-24 A			100%
P5-8200	Dewatering 1000mm below 3rd level walling and strut	1	19-Oct-24 A	23-Oct-24 A		1	100%
P5-8210	Excavate 500mm below 3rd level walling and strut	4	24-Oct-24 A	30-Oct-24 A		1	100%
P5-8220	3rd layer walling and strut Installation	6	31-Oct-24 A	08-Nov-24 A		2	100%
P5-8240	Dewatering 1000mm below 4th level walling and strut	3	09-Nov-24 A	15-Nov-24 A		1	100%
P5-8250	Excavate 500mm below 4th level walling and strut	4	16-Nov-24 A	23-Nov-24 A		1	100%
P5-8260	4th layer walling and strut Installation	7	25-Nov-24 A	05-Dec-24 A		2	100%
P5-8270	Dewatering 1000mm below 5th level walling and strut	3	06-Dec-24 A	24-Dec-24 A		1	100%
P5-8280	Excavate 500mm below 5th level walling and strut	4	31-Dec-24 A	10-Jan-25 A		1	100%
P5-8290	5th layer walling and strut Installation	7	11-Jan-25 A	23-Jan-25 A		2	100%
P5-8291	Dewatering 1000mm below final excavation level	3	24-Jan-25 A	27-Jan-25 A		1	100%
Stage 4		11	28-Jan-25 A	11-Feb-25 A			100%
P5-4000	Excavate to final excavation level	7	28-Jan-25 A	07-Feb-25 A		1	100%
P5-4010	Construct 200mm thick Blinding Layer at T.L=-8.20mPD	2	08-Feb-25 A	11-Feb-25 A		1	100%
Stage 5		3	11-Feb-25 A	14-Feb-25 A			100%
P5-8230	Dismantle and remove 5th layer walling and strut	3	11-Feb-25 A	14-Feb-25 A		1	100%
JACKING PIT CHB1680		218	22-Jul-24 A	23-May-25	-77		90.1%
Construction of Jacking Pit at CHB1680 (DJ water viaduct zone)		198	22-Jul-24 A	21-Mar-25 A			100%
P5-3220	(a) 54 Pipe Pile drilling (610 dia.), H-Beam installation with Grouting	32	22-Jul-24 A	24-Aug-24 A		17	100%
P5-3221	(b) Grout Curtain Works	36	27-Aug-24 A	07-Oct-24 A			100%
P5-3232	(c) Excavation works up to formation level	68	21-Oct-24 A	12-Feb-25 A			100%
P5-3242	(d) Blinding layer	2	13-Feb-25 A	21-Feb-25 A			100%
P5-3252	(e) Cut 8th to 6th layer of strut and walling	28	04-Mar-25 A	18-Mar-25 A			100%
P5-3262	(f) Backfill to the level for trial grout at CHB1680	3	19-Mar-25 A	21-Mar-25 A			100%
P5-RECORD-02	Method Statement review by PM	10	21-Feb-25 A	03-Mar-25 A			100%
Trial grout at CHB1680 for horizontal grout		30	22-Mar-25 A	23-May-25	-77		27.34%
P5-3240	Trial grout at CHB1680 for horizontal grout & microtremer	30	22-Mar-25 A	23-May-25	-77		27.34%
PIPE JACKING (CHB1680 to CHB1560)		225	31-Mar-25 A	03-Dec-25	-42		10.84%
P5-6000	TBM tranpsort & setup at Jacking Pit CHB1680 (driven by P5-3070)	28	26-May-25*	23-Jun-25	-89		0%
P5-6010	Additional G.I Works for DN3000 Pipe Jacking Across Shek Sheung River (PMI-284)	56	31-Mar-25 A	30-Jun-25	-85		0%
P5-6100	Pipe Jacking from CHB1680 to CHB1560 (120m)	56	30-Jun-25	28-Aug-25	-85		0%
P5-6110	Removal of TBM & gears and grouting works	30	28-Aug-25	29-Sep-25	-85		0%
P5-6120	Installation of 3 nos. DN700 Ductile iron pipes, valve and fittings	48	29-Sep-25	21-Nov-25	-42	3	0%
P5-6130	Water pressure test and grouting of pipeline (driver P6-5150)	11	22-Nov-25*	03-Dec-25	-42		0%
MANHOLE		45	04-Dec-25	23-Jan-26	-36		0%
P5-7000	Construction of Manhole at CHB1545 (D.A.V chamber CHB1541)	45	04-Dec-25	23-Jan-26	-42	3	0%
P5-7100	Construction of Manhole at CHB1680 (Driver P6-5110 predecessor FS)	45	04-Dec-25*	23-Jan-26	-36		0%
REINSTATEMENT		79	23-Jan-26	20-Apr-26	-36		0%
P5-8000	CHB1560 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-42	3	0%
P5-8100	Reinstatement works at CHB1560	30	16-Mar-26	20-Apr-26	-42		0%
P5-8300	CHB1680 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-36		0%
P5-8310	Reinstatement works at CHB1680	30	16-Mar-26	20-Apr-26	-36		0%
Portion 6 - CHB1680 to CHB1740 [60M] Sewage Pipe Jacking across Shek Sheung River and MTRC near		595	23-Apr-24 A	17-Jun-26	0		36.96%
SITE POSSESSION		0	30-Apr-24 A	13-May-24 A			0%
P6-MIL-01	Possession of site - Portion 6	0	30-Apr-24 A				100%
P6-MIL-02	Obtain Construction Noise Permit from EPD (NCO Cap. 400) (13-May to 12-Aug 2024)	0	13-May-24 A				100%
PREPARATION		122	23-Apr-24 A	08-Jan-25 A			100%
P6-1-RECORD-01	NCE-113 Additional works for Shek Wu Hui at Receiving Pit CHB 1740	1	23-Apr-24 A	23-Apr-24 A			100%
P6-1-RECORD-02	NCE-121 Additional pipe cleansing and CCTV works adjacent to CHB1740 (OUT-5510)	1	18-Jul-24 A	18-Jul-24 A			100%
P6-1-RECORD-03	NCE-033 Unforeseen underground obstacles at Rising Main CHB1740 - CE No. 271 issued on 14-Aug-2024 (IN-06629)	1	22-Jul-24 A	22-Jul-24 A			100%
P6-1-RECORD-04	EWN-033 Unforeseen underground obstacles at CHB1740	1	22-Jul-24 A	22-Jul-24 A			100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

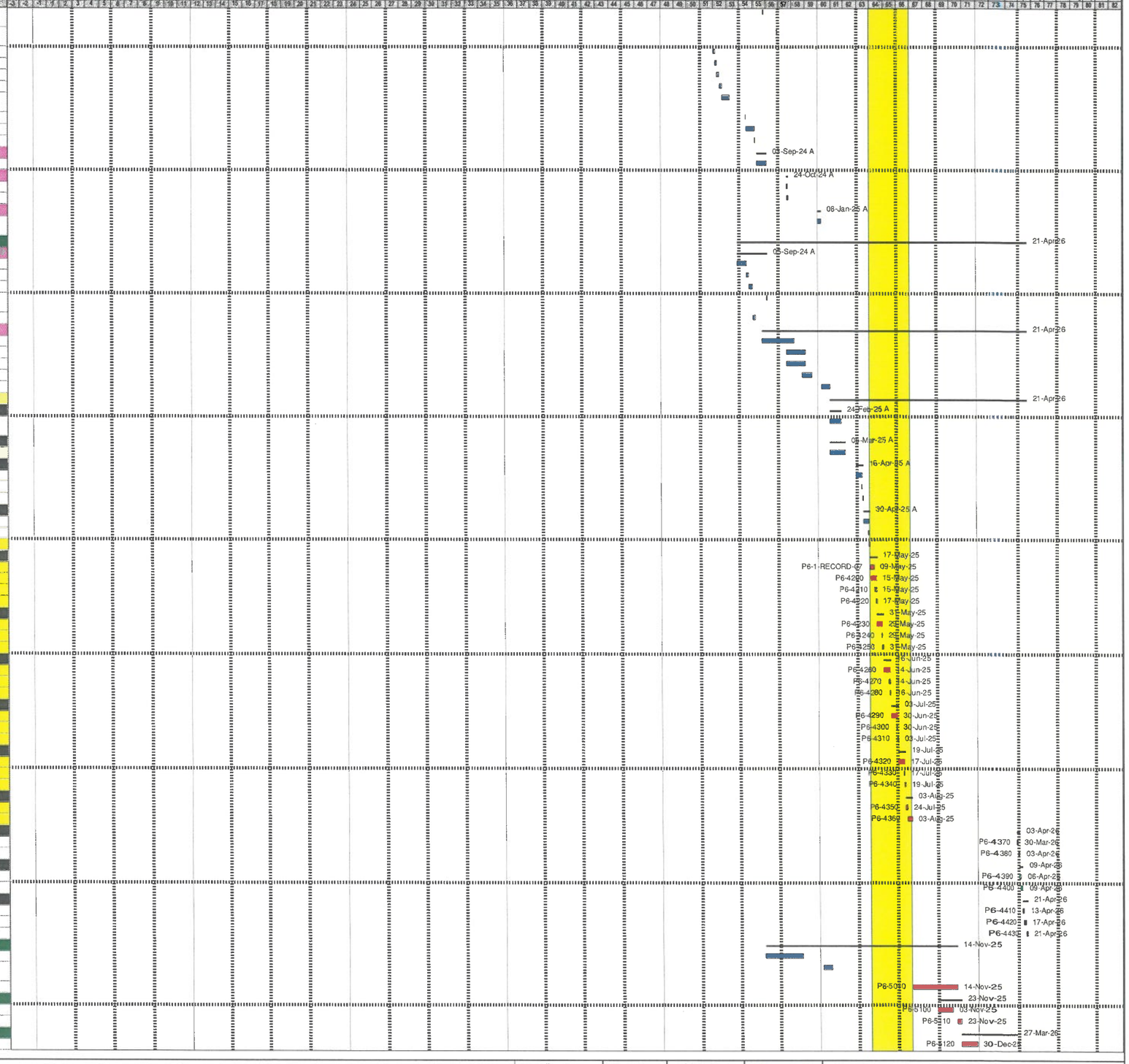
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TF%	Duration % Complete
P6-1-RECORD-05	NCE-126 Additional Requirement by MTRC for 5 nos Pipe Piling works near IRC Manhole (OUT-5657)	1	27-Aug-24 A	27-Aug-24 A			100%
P6-1-RECORD-06	EWN-034 Unforeseen underground obstruction found at CHB1740 Pipe Piling Works	1	28-Sep-24 A	28-Sep-24 A			100%
P6-3110	Site clearance and fencing	4	02-May-24 A	06-May-24 A			100%
P6-3120	Temporary traffic arrangement and installation of inclinometer at CHB1740	4	07-May-24 A	10-May-24 A			100%
P6-3130	UU detection and Trail Pit	4	11-May-24 A	16-May-24 A			100%
P6-3150	Resources mobilization (Plants, Material, Manpower, Tools & Equipments)	4	17-May-24 A	22-May-24 A			100%
P6-3160	Delivery and set up of wetstep, generator and implementation of proposed drainage management plan system	4	23-May-24 A	08-Jun-24 A			100%
P6-4105	CCTV Inspection to existing underground drainage pipe MHD06A to SMH1004335	1	16-Jul-24 A	16-Jul-24 A			100%
P6-4106	Expose and Cleansing of 600 dia. pipe from MHD06 to MHD06A	19	17-Jul-24 A	06-Aug-24 A			100%
P6-4107	CCTV Inspection to existing underground drainage pipe MHD06A to MHD06A	1	07-Aug-24 A	07-Aug-24 A			100%
Protective Barrier		21	12-Aug-24 A	03-Sep-24 A			100%
P6-PB-1	Removal of existing noise barrier	21	12-Aug-24 A	03-Sep-24 A			100%
Inclinometer		4	21-Oct-24 A	24-Oct-24 A			100%
P6-INC-3	Inclinometer-3 installation near CHB1737 (min. 5m embedded in rock)	2	21-Oct-24 A	22-Oct-24 A			100%
P6-INC-4	Inclinometer-4 installation near CHB1741	2	22-Oct-24 A	24-Oct-24 A			100%
ADMS Tower (Furgo)		7	31-Dec-24 A	08-Jan-25 A			100%
P6-ADMS-1	Construction of 5m high ADMS Tower with barbed wire (2.5m distant from MTR Fence) and install concrete blocks	7	31-Dec-24 A	08-Jan-25 A			100%
ELS (CHB1740)		493	26-Jun-24 A	21-Apr-26	53		34.68%
Pre-grouting at CHB1740		19	26-Jun-24 A	05-Sep-24 A			100%
P6-4100	(a) Drilling for pre-grout	19	26-Jun-24 A	17-Jul-24 A		6	100%
P6-4101	(b) BC grout for pre-grout	5	17-Jul-24 A	23-Jul-24 A			100%
P6-4102	(c) Chemical Grout for pre-grout	8	24-Jul-24 A	01-Aug-24 A			100%
P6-4103-PB-2	(d) Installation of 4m high Protective Barrier and install concrete blocks for piling rig adjacent MTRC track	2	04-Sep-24 A	05-Sep-24 A			100%
P6-4104	(e) Site clearance after pre-grout works	4	02-Aug-24 A	07-Aug-24 A			100%
Construction of Receiving Pit at CHB1740 (SWH) and Pumping Test		493	24-Aug-24 A	21-Apr-26	53		34.68%
P6-4111	(a) 47 Pipe Pile Drilling (610 dia.) [Note: 1-Month delay by pipe pile clash]	56	24-Aug-24 A	07-Nov-24 A			100%
P6-4112	(b) 36 H-Beam Installation for 610 Pipe Pile	36	21-Oct-24 A	02-Dec-24 A			100%
P6-4113	(c) Grouting for Pipe Pile	58	21-Oct-24 A	02-Dec-24 A			100%
P6-4114	(d) 69 Grout Curtain works (including drilling, BC & Chemical grouting)	21	26-Nov-24 A	17-Dec-24 A			100%
P6-4115	(e) Drilling and installation for Pumping Test	17	10-Jan-25 A	28-Jan-25 A			100%
Excavation		402	28-Jan-25 A	21-Apr-26	53		19.84%
Stage 1 (+7.53 mPD)		20	28-Jan-25 A	24-Feb-25 A			100%
P6-4129	Preparation works for commencement of excavation works upto formation level (working platform/plants)	20	28-Jan-25 A	24-Feb-25 A			100%
Stage 2 (+7.00 mPD)		3	28-Jan-25 A	05-Mar-25 A			100%
P6-4130	Excavate to 500mm below 1st layer of walling & strut	3	28-Jan-25 A	05-Mar-25 A		1	100%
Stage 3 (+7.00 mPD) | 1st Layer		17	31-Mar-25 A	16-Apr-25 A			100%
P6-4140	Install 1st layer of walling & strut	14	31-Mar-25 A	13-Apr-25 A		1	100%
P6-4150	Dewater to 1000mm below 2nd layer of walling & strut	2	12-Apr-25 A	13-Apr-25 A		1	100%
P6-4160	Excavate to 500mm below 2nd layer of walling & strut	2	14-Apr-25 A	16-Apr-25 A		1	100%
Stage 4 (+4.5 mPD) | 2nd Layer		14	16-Apr-25 A	30-Apr-25 A			100%
P6-4170	Install 2nd layer of walling & strut	12	16-Apr-25 A	28-Apr-25 A		1	100%
P6-4180	Dewater to 1000mm below 3rd layer of walling & strut	2	26-Apr-25 A	28-Apr-25 A		1	100%
P6-4190	Excavate to 500mm below 3rd layer of walling & strut	2	28-Apr-25 A	30-Apr-25 A		1	100%
Stage 5 (+2.00 mPD) | 3rdLayer		16	30-Apr-25 A	17-May-25	-90		0%
P6-1-RECORD-07	Breaking unforeseen abandoned concrete pipe (NCE-146)	9	30-Apr-25 A	09-May-25	-90		0%
P6-4200	Install 3rd layer of walling & strut	12	03-May-25	15-May-25	-100	1	0%
P6-4210	Dewater to 1000mm below 4th layer of walling & strut	2	13-May-25	15-May-25	-100	1	0%
P6-4220	Excavate to 500mm below 4th layer of walling & strut	2	15-May-25	17-May-25	-100	1	0%
Stage 6 (-0.50 mPD) | 4th Layer		14	17-May-25	31-May-25	-100		0%
P6-4230	Install 4th layer of walling & strut	12	17-May-25	29-May-25	-100	1	0%
P6-4240	Dewater to 1000mm below 5th layer of walling & strut	2	27-May-25	29-May-25	-100	1	0%
P6-4250	Excavate to 500mm below 5th layer of walling & strut	2	29-May-25	31-May-25	-100	1	0%
Stage 7 (-2.50 mPD) | 5th Layer		16	31-May-25	16-Jun-25	-100		0%
P6-4260	Install 5th layer of walling & strut	14	31-May-25	14-Jun-25	-100	1	0%
P6-4270	Dewater to 1000mm below 6th layer of walling & strut	2	12-Jun-25	14-Jun-25	-100	1	0%
P6-4280	Excavate to 500mm below 6th layer of walling & strut	2	14-Jun-25	16-Jun-25	-100	1	0%
Stage 8 (-4.50 mPD) | 6th Layer		16	17-Jun-25	03-Jul-25	-100		0%
P6-4290	Install 6th layer of walling & strut	14	17-Jun-25	30-Jun-25	-100	1	0%
P6-4300	Dewater to 1000mm below 7th layer of walling & strut	2	29-Jun-25	30-Jun-25	-100	1	0%
P6-4310	Excavate to 500mm below 7th layer of walling & strut	2	01-Jul-25	03-Jul-25	-100	1	0%
Stage 9 (-6.00 mPD) | 7th Layer		16	03-Jul-25	19-Jul-25	-100		0%
P6-4320	Install 7th layer of walling & strut	14	03-Jul-25	17-Jul-25	-100	1	0%
P6-4330	Dewater to 1000mm below the Final Level Excavation Level	2	15-Jul-25	17-Jul-25	-100	1	0%
P6-4340	Excavate 500mm below the Final Level Excavation Level	2	17-Jul-25	19-Jul-25	-100	1	0%
Stage 10 (-7.921 mPD) | Blinding Layer		15	19-Jul-25	03-Aug-25	-100		0%
P6-4350	Construct 200mm Blinding Layer at T.L=-7.921mPD.	5	19-Jul-25	24-Jul-25	-100	1	0%
P6-4360	Remove 7th and 6th layer of walling & strut	10	24-Jul-25	03-Aug-25	-100	1	0%
Stage 11		7	27-Mar-26	03-Apr-26	58		0%
P6-4370	Backfill to T.L.=-3.00mPD.	3	27-Mar-26	30-Mar-26	58	1	0%
P6-4380	Remove 5th layer of walling & strut	3	31-Mar-26	03-Apr-26	58	1	0%
Stage 12		7	03-Apr-26	09-Apr-26	58		0%
P6-4390	Backfill to T.L.=-1.00mPD.	3	03-Apr-26	06-Apr-26	58	1	0%
P6-4400	Remove 4th layer of walling & strut	3	06-Apr-26	09-Apr-26	58	1	0%
Stage 13		11	10-Apr-26	21-Apr-26	58		0%
P6-4410	Backfill to T.L.=+0.03mPD.	3	10-Apr-26	13-Apr-26	58	1	0%
P6-4420	Construct Blinding layerat T.L.=0.03mPD.	4	13-Apr-26	17-Apr-26	58	1	0%
P6-4430	Remove 3rd layer of walling & strut	3	17-Apr-26	21-Apr-26	58	1	0%
GROUND TREATMENT		403	27-Aug-24 A	14-Nov-25	192		76.41%
P6-5008	MTR maintenance of sleeper (Tentative 2024 Q3, 90 days)	80	27-Aug-24 A	21-Nov-24 A			100%
P6-5009	Installation of ADMS, tilt sensor within MTR track area (4NTH 3-hr shift, 4 nights/week) (Furgo)	19	08-Jan-25 A	28-Jan-25 A			100%
P6-5010	Horizontal ground treatment & testing at CHB1740 (49 NTH 3-hr shift, 4nights/wk)	103	03-Aug-25	14-Nov-25	-100		0%
PIPE JACKING (CHB1680 to CHB1703)		54	29-Sep-25	23-Nov-25	-100		0%
P6-5100	Tunnel Boring Machine (TBM) setup and assembly at Jacking Pit CHB1680	35	29-Sep-25*	03-Nov-25	-89		0%
P6-5110	Pipe Jacking from CHB1680 to CHB1703 (23m, Daywork)	9	14-Nov-25	23-Nov-25	-100		0%
PIPE JACKING (CHB1703 to CHB1740)		124	23-Nov-25	27-Mar-26	-100		0%
P6-5120	Pipe Jacking from CHB1703 to CHB1740 (37m, 23 NTH, 4nights/wk)	37	23-Nov-25	30-Dec-25	-100		0%



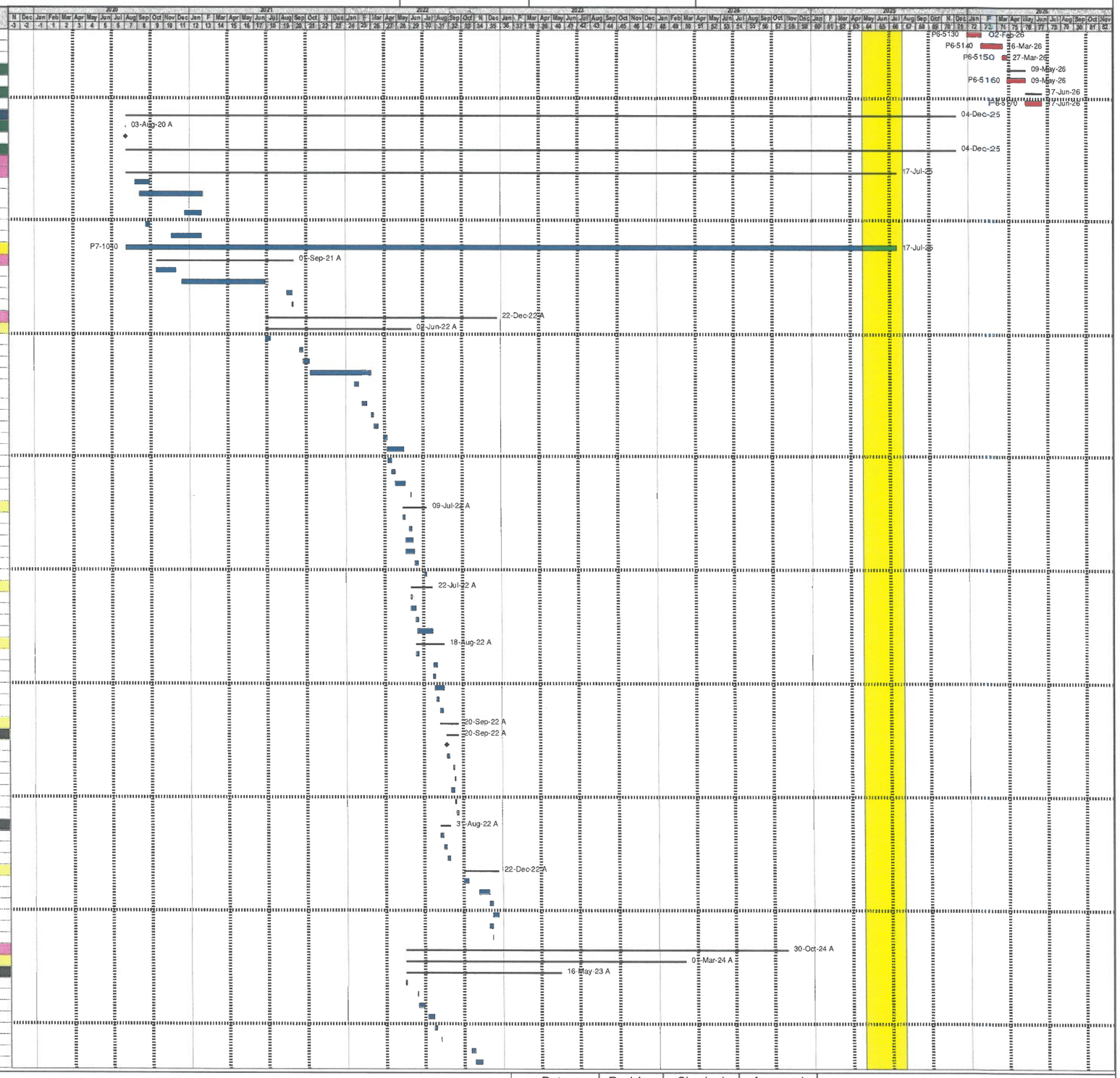
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P6-5130	Removal of TBM and gears and grouting works	34	30-Dec-25	02-Feb-26	-100		0%
P6-5140	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	42	02-Feb-26	16-Mar-26	-100	3	0%
P6-5150	Water pressure test and grouting of pipeline (driving P5-6130)	11	16-Mar-26	27-Mar-26	-100		0%
MANHOLE		43	27-Mar-26	09-May-26	-100		0%
P6-5160	Construction of Manhole SSM1 at CHB1752	43	27-Mar-26	09-May-26	-100		0%
REINSTATEMENT		39	09-May-26	17-Jun-26	-100		0%
P6-5170	CHB1740 Pit Backfilling and reinstatement	39	09-May-26	17-Jun-26	-100	3	0%
Portion 7 - Kwu Tung North Sewage Pumping station		1760	03-Aug-20 A	04-Dec-25	174		88.56%
Site Posession		0	03-Aug-20 A	03-Aug-20 A			0%
P7-1000	Possession of site - Portion 7	0	03-Aug-20 A			0	100%
Sewage Pumping Station		1760	03-Aug-20 A	04-Dec-25	174		88.56%
Submission		0			0		0%
Site Preparation		1545	03-Aug-20 A	17-Jul-25	303		95.33%
P7-1001	Temporary haul road	27	26-Aug-20 A	30-Sep-20 A		0	100%
P7-1004	Initial Site Set Up and mobilizatoin (Temp. Power & Water, Wet Set, Wheel Wash facility)	16	05-Sep-20 A	01-Feb-21 A		2	100%
P7-1005	Installation of Dull Green Barrier / Hoarding	18	22-Dec-20 A	30-Jan-21 A		2	100%
P7-1010	Environmental GI & Submission of Lap Report (PS:1.138)	21	21-Sep-20 A	30-Sep-20 A		2	100%
P7-1030	Borehole (1 nos.), Submission & Approval of GI Report	59	21-Nov-20 A	30-Jan-21 A		2	100%
P7-1040	Tree Protection and Preservation	1545	03-Aug-20 A	17-Jul-25	303	4	95.33%
Foundation		241	15-Oct-20 A	01-Sep-21 A			100%
P7-2000	Pre-Drilling (~11nos.)	16	15-Oct-20 A	30-Nov-20 A		2	100%
P7-2010	Install H-pile (62 nos.; 8 nos. / month /rig, 1 rig)	165	14-Dec-20 A	26-Jun-21 A		1	100%
P7-2020	Pile Load Test	28	17-Aug-21 A	30-Aug-21 A		2	100%
P7-2030	Proof Drilling	5	30-Aug-21 A	01-Sep-21 A			100%
Excavation		488	28-Jun-21 A	22-Dec-22 A			100%
1st Stage		304	28-Jun-21 A	02-Jun-22 A			100%
P7-2900	Installation of King Posts (4nos.)	12	28-Jun-21 A	09-Jul-21 A			100%
P7-3000	Sheetpile installation (~135m; approx. 675nos;)	21	15-Sep-21 A	23-Sep-21 A		2	100%
P7-3020	Stop Works Instruction from PM (MTRC Complaints Issue)	12	24-Sep-21 A	08-Oct-21 A			100%
P7-3110	Sheetpile installation (~135m; approx. 675nos;)	117	09-Oct-21 A	28-Feb-22 A		2	100%
P7-3115	Soft Excavation from +5.5mPD to 1st strut level (+3.8mPD for Portion 1 & 2) (~500cu.m)	6	22-Jan-22 A	31-Jan-22 A		1	100%
P7-3117	Installation of strut S1 (+4.5mPD for for Portion 1 & 2)	10	08-Feb-22 A	19-Feb-22 A		1	100%
P7-3119	Soft Excavation to 2nd strut level (+1.47mPD for Portion 1 & 2, ~600cu.m)	6	01-Mar-22 A	07-Mar-22 A		1	100%
P7-3120	Installation of strut S2 (+2.2mPD for for Portion 1 & 2)	9	08-Mar-22 A	17-Mar-22 A		1	100%
P7-3124	Excavate down to level suit for driving Middle Part Sheet Pile Wall	6	31-Mar-22 A	07-Apr-22 A		5	100%
P7-3125	Sheetpile Installation for Middle part wall (~24m; approx. 60nos)	15	08-Apr-22 A	16-May-22 A		5	100%
P7-3125.4	Cut and Fill of slope to form platform for installation of strut at Portion 4,5	8	09-Apr-22 A	18-Apr-22 A		5	100%
P7-3125.5	Installation of strut S1 (+4.5mPD) at Portion 5	7	19-Apr-22 A	26-Apr-22 A		1	100%
P7-3125.6	Soft Excavation to FEL (-0.3mPD for Portion 1 & 2, ~600cu.m)	7	26-Apr-22 A	19-May-22 A		5	100%
P7-3125.8	Blinding Casting of Portion 1 & 2	1	02-Jun-22 A	02-Jun-22 A		5	100%
2nd Stage Portion 3-6 1st level (+4.5mPD)		47	14-May-22 A	09-Jul-22 A			100%
P7-3126.2	Cut and Fill of slope to form platform for installation of strut at Portion 3	3	14-May-22 A	19-May-22 A		5	100%
P7-3126.3	Installation of strut at Portion 3 (+4.5mPD)	6	28-May-22 A	04-Jun-22 A		5	100%
P7-3127	Soft Excavation and extend the slope to Portion 4 (600cu m)	14	20-May-22 A	06-Jun-22 A		1	100%
P7-3130	Installation of strut S1 (+4.5mPD) at Portion 4	18	20-May-22 A	10-Jun-22 A		1	100%
P7-3250	Soft Excavation and extend the slope to Portion 6 (200cu m)	7	11-Jun-22 A	18-Jun-22 A		1	100%
P7-3260	Installation of strut S1 (+4.5mPD) at Portion 6	6	04-Jul-22 A	09-Jul-22 A		1	100%
3rd Stage Portion 3-6 2nd level (+2.2mPD)		31	01-Jun-22 A	22-Jul-22 A			100%
P7-3130.1	Soft Excavation to 2nd level of strut at Portion 3 (+1.47mPD)	6	01-Jun-22 A	04-Jun-22 A		1	100%
P7-3131	Installation of 2nd level of strut at Portion 3 (+2.2mPD)	7	02-Jun-22 A	13-Jun-22 A		1	100%
P7-3132	Soft Excavation to 2nd strut level (+1.47mPD) at Portion 4 to 6 (~980cu.m)	6	13-Jun-22 A	18-Jun-22 A		1	100%
P7-3132.1	Installation of 2nd level of strut at Portion 4-6 (+2.2mPD)	31	16-Jun-22 A	22-Jul-22 A		1	100%
4th Stage Portion 3-6 3rd level (-0.5mPD)		33	14-Jun-22 A	18-Aug-22 A			100%
P7-3160	Soft Excavation from +1.47mPD to -1.5mPD at Portion 3 (~1730 cu.m)	6	14-Jun-22 A	20-Jun-22 A		5	100%
P7-3170	Installation of strut S3 (-0.5mPD) at Portion 3	7	25-Jul-22 A	01-Aug-22 A		5	100%
P7-3180	Soft Excavation from +1.47mPD to -1.5mPD at Portion 4 (~1730 cu.m)	6	23-Jul-22 A	29-Jul-22 A		5	100%
P7-3190	Installation of strut S3 (-0.5mPD) at Portion 4	20	27-Jul-22 A	18-Aug-22 A		5	100%
P7-3200	Soft Excavation from +1.47mPD to -1.5mPD at Portion 5-6	6	01-Aug-22 A	06-Aug-22 A		5	100%
P7-3210	Installation of strut S3 (-0.5mPD) at Portion 5-6	7	08-Aug-22 A	15-Aug-22 A		1	100%
5th Stage Portion 3-4		47	08-Aug-22 A	20-Sep-22 A			100%
Grout Curtain		47	23-Aug-22 A	20-Sep-22 A			100%
P7-3162	Plant mobilization of Grout Curtain Installation	0	23-Aug-22 A			1	100%
P7-3164	Drilling and Installation of TAM Pipe with Sleeve Grout (GHA1 to GHA11: 11nos)	6	24-Aug-22 A	30-Aug-22 A		1	100%
P7-3166	Inject Bentonite Cement Grout	2	09-Sep-22 A	10-Sep-22 A		1	100%
P7-3167	Inject Chemical Grout	2	12-Sep-22 A	13-Sep-22 A		1	100%
P7-3168	Drilling and Installation of TAM Pipe with Sleeve Grout (GHB to GHC : 23nos)	7	03-Sep-22 A	10-Sep-22 A		1	100%
P7-4190	Inject Bentonite Cement Grout	4	12-Sep-22 A	15-Sep-22 A		1	100%
P7-4200	Inject Chemical Grout	4	16-Sep-22 A	20-Sep-22 A		1	100%
Excavation		19	08-Aug-22 A	31-Aug-22 A			100%
P7-3220	Soft Excavation from -1.5mPD to -2.5mPD at Portion 3 (~600 cu.m)	7	08-Aug-22 A	15-Aug-22 A		5	100%
P7-3280	Soft Excavation from -1.5mPD to -2.5mPD at Portion 4(~600 cu.m)	7	16-Aug-22 A	23-Aug-22 A		5	100%
P7-3300	Soft Excavation from -1.5mPD to -2.5mPD at Portion 5-6(~600 cu.m)	7	24-Aug-22 A	31-Aug-22 A		5	100%
6th Stage Portion 3-4 5th & 5a level (-4.3mPD & -5.9mPD)		82	03-Oct-22 A	22-Dec-22 A			100%
P7-3320	Soft Excavation from -2.5mPD to -4.8mPD at Portion 3-6	7	03-Oct-22 A	13-Oct-22 A		5	100%
P7-3330	Installation of strut S5 (-4.3mPD) at Portion 3	11	08-Nov-22 A	01-Dec-22 A		5	100%
P7-3500	Soft Excavation from -4.8mPD to -6.4mPD at Portion 3	7	02-Dec-22 A	09-Dec-22 A		5	100%
P7-3505	Installation of Corner Strut (-5.9mPD) at Portion 3	4	10-Dec-22 A	22-Dec-22 A		5	100%
P7-3507	Soft Excavation from -6.4mPD to -7.785mPD at Portion 3	2	02-Dec-22 A	09-Dec-22 A		5	100%
P7-3510	Concrete Blinding at Portion 3	1	09-Dec-22 A	09-Dec-22 A		5	100%
Station Structure		796	17-May-22 A	30-Oct-24 A			100%
Basement to G/F Wall & G/F Slab		578	17-May-22 A	01-Mar-24 A			100%
+1.55mPD (1st Pour)		449	17-May-22 A	16-May-23 A			100%
P7-BF1270	Grout Breaking of Socket H Piles (12nos)	2	17-May-22 A	19-May-22 A		2	100%
P7-BF1280	Cutting Pile Head and Capping Plate Installation	2	13-Jun-22 A	14-Jun-22 A		2	100%
P7-BF1280.2	Con't Cutting Pile Head and Capping Plate Installation	12	16-Jun-22 A	29-Jun-22 A		2	100%
P7-BF1330	Rebar fixing of basement Slab	15	09-Jul-22 A	22-Jul-22 A		1	100%
P7-BF1340	Base Slab Shutters	6	23-Jul-22 A	29-Jul-22 A		1	100%
P7-BF1350	Base Slab (+1.55mPD) Concreting (+2.7mPD) (312m3)	1	08-Aug-22 A	08-Aug-22 A		1	100%
P7-BF1360	Welding for steel channel for facilitating the dismantle of Strut S1 & S2	9	18-Oct-22 A	27-Oct-22 A		1	100%
P7-BF1370	Dismantle of strut S2 at +2.2mPD & strut S1 at +4.5mPD	14	28-Oct-22 A	12-Nov-22 A		2	100%



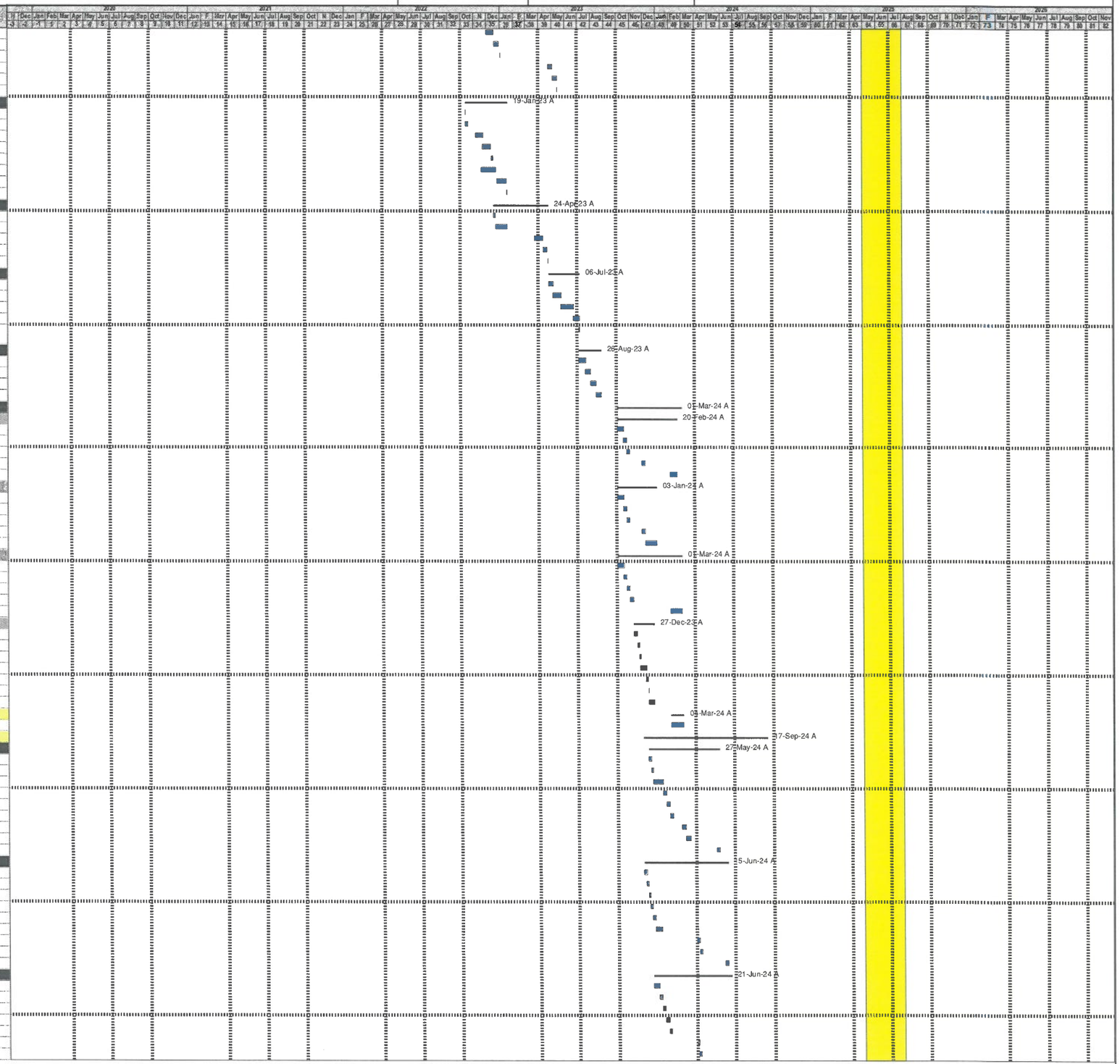
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P7-BF1380	Falsework Erection for Grid A Wall construction	15	02-Dec-22 A	19-Dec-22 A		2	100%
P7-BF1390	Formwork and Rebar Fixing of Grid A Wall	10	20-Dec-22 A	31-Dec-22 A		2	100%
P7-BF1400	Grid A Wall Concreting (1st Pour up to +4.5mPD)	1	04-Jan-23 A	04-Jan-23 A		2	100%
P7-BF2180	Falsework Erection for Grid A Wall construction	8	25-Apr-23 A	04-May-23 A		2	100%
P7-BF2190	Formwork and Rebar Fixing of Grid A Wall	10	05-May-23 A	15-May-23 A		2	100%
P7-BF2200	Grid A Wall Concreting (1st Pour up to +7.65mPD with Cantilever Slab)	1	16-May-23 A	16-May-23 A		2	100%
-2.05mPD (1st Pour)		90	14-Oct-22 A	19-Jan-23 A			100%
P7-BF2100	Concrete Blinding at Portion 5 & 6	1	14-Oct-22 A	14-Oct-22 A		2	100%
P7-BF2110	Grout Breaking Pile Head treatment and of Socket H Piles (24nos)	6	15-Oct-22 A	21-Oct-22 A		2	100%
P7-BF2115	Capping Plate Installation (24nos)	10	07-Nov-22 A	24-Nov-22 A		2	100%
P7-BF2120	Rebar fixing of basement Slab	16	24-Nov-22 A	12-Dec-22 A		1	100%
P7-BF2130	Formwork and Base Slab Shutters	5	13-Dec-22 A	17-Dec-22 A		1	100%
P7-BF2130-1	Request for RC details for basement slab for construction	30	21-Nov-22 A	24-Dec-22 A		1	100%
P7-BF2130-2	Rebar fixing resued of basement Slab	18	27-Dec-22 A	17-Jan-23 A		1	100%
P7-BF2140	Base Slab & Wall Kickers Concreting (-2.05mPD) (460M3)	1	19-Jan-23 A	19-Jan-23 A		1	100%
-6.21mPD		110	19-Dec-22 A	24-Apr-23 A			100%
P7-BF0900	Grout Breaking of Socket H Piles (18nos)	5	19-Dec-22 A	23-Dec-22 A		2	100%
P7-BF1000	Low Level Pile Head treatment and Capping Plate Installation	6	24-Dec-22 A	19-Jan-23 A		2	100%
P7-BF1050	Rebar fixing of basement Slab (1.5m thk)	12	23-Mar-23 A	12-Apr-23 A		1	100%
P7-BF1060	Base Slab Shutters	7	12-Apr-23 A	22-Apr-23 A		1	100%
P7-BF1070	Base Slab Concreting (1st Bay, -6.21mPD) (340M3)	1	24-Apr-23 A	24-Apr-23 A		1	100%
-2.05mPD (2nd Pour)		61	26-Apr-23 A	06-Jul-23 A			100%
P7-BF1080	Dismantling base slab formwork and soil backfill to -4.15mPD with testing	10	26-Apr-23 A	06-May-23 A		2	100%
P7-BF1090	Dismantle of strut S5 & S4	14	06-May-23 A	25-May-23 A		2	100%
P7-BF1170	Rebar fixing of basement Slab	12	25-May-23 A	23-Jun-23 A		1	100%
P7-BF1180	Base Slab Shutters	5	23-Jun-23 A	06-Jul-23 A		1	100%
P7-BF1190	Base Slab, Wall of wet well and wall Kickers for screen chamber Concreting (-2.05mPD to -0.5mPD)	1	06-Jul-23 A	06-Jul-23 A		1	100%
+1.55mPD (2nd Pour)		50	06-Jul-23 A	26-Aug-23 A			100%
P7-BF2000	Dismantling base slab formwork and soil backfill to -0.5mPD with testing	10	06-Jul-23 A	21-Jul-23 A		2	100%
P7-BF2010	Dismantle of strut S3 at -0.5mPD	7	21-Jul-23 A	01-Aug-23 A		2	100%
P7-BF2060	Remove Intermediate Sheet Pile separating Portion 1,2 & 3	14	01-Aug-23 A	15-Aug-23 A		2	100%
P7-BF2070	Construct Remaining Portion of +1.55mPD B/F Slab (137m3)	12	15-Aug-23 A	26-Aug-23 A		2	100%
+7.50mPD (G/F Slab)		136	03-Oct-23 A	01-Mar-24 A			100%
Bay 1		113	03-Oct-23 A	20-Feb-24 A			100%
P7-BF1401	Backfill & Dismantle of strut S2 at +2.2mPD	14	03-Oct-23 A	17-Oct-23 A		2	100%
P7-BF1403	Wall Extend to +4.5mPD along Grid A & B	7	17-Oct-23 A	25-Oct-23 A		3	100%
P7-BF1405	Backfill to +4.5mPD	7	25-Oct-23 A	31-Oct-23 A		5	100%
P7-BF1409	Dismantle of Strut S1 at +4.5mPD	7	30-Nov-23 A	07-Dec-23 A		3	100%
P7-BF2150	Wall & Slab Construction (along Grid B up to +7.65mPD)	12	05-Feb-24 A	20-Feb-24 A		5	100%
Bay 2		83	03-Oct-23 A	03-Jan-24 A			100%
P7-BF1423	Backfill & Dismantle of strut S2 at +2.2mPD	14	03-Oct-23 A	17-Oct-23 A		2	100%
P7-BF1425	Wall Extend to +4.5mPD along Grid B & C	10	17-Oct-23 A	25-Oct-23 A		3	100%
P7-BF1437	Backfill to +4.5mPD	7	25-Oct-23 A	31-Oct-23 A		5	100%
P7-BF1439	Dismantle of Strut S1 at +4.5mPD	7	30-Nov-23 A	07-Dec-23 A		3	100%
P7-BF2160	Ground Beam & Slab Construction (along Grid B to D)	22	07-Dec-23 A	03-Jan-24 A		5	100%
Bay 3		136	03-Oct-23 A	01-Mar-24 A			100%
P7-BF1433	Dismantle of strut S2 at +2.2mPD	14	03-Oct-23 A	17-Oct-23 A		2	100%
P7-BF1435	Wall Extend to +4.5mPD along Grid D & F	10	17-Oct-23 A	25-Oct-23 A		3	100%
P7-BF1440	Backfill to +4.5mPD	7	25-Oct-23 A	31-Oct-23 A		5	100%
P7-BF1447	Dismantle of Strut S1 at +4.5mPD	7	01-Nov-23 A	09-Nov-23 A		3	100%
P7-BF2170	Wall & Slab Construction (along Grid D to E)	22	05-Feb-24 A	01-Mar-24 A		5	100%
Bay 4		37	10-Nov-23 A	27-Dec-23 A			100%
P7-BF1445	Soil backfill to +5.35mPD with testing	7	10-Nov-23 A	18-Nov-23 A		2	100%
P7-BF1465	Grout Breaking of Socket H Piles (8nos)	4	18-Nov-23 A	23-Nov-23 A		2	100%
P7-BF1475	Low Level Pile Head treatment and Capping Plate Installation	3	23-Nov-23 A	25-Nov-23 A		2	100%
P7-BF1525	Rebar fixing of basement Slab	12	25-Nov-23 A	08-Dec-23 A		1	100%
P7-BF1535	Base Slab Shutters	5	08-Dec-23 A	13-Dec-23 A		1	100%
P7-BF1545	Concreting of Base Slab (+7.5mPD)	1	14-Dec-23 A	14-Dec-23 A		1	100%
P7-BF1555	Backfill to +7.5mPD at the side of Base slab	10	15-Dec-23 A	27-Dec-23 A		1	100%
Tx Room Double Slab at +12.55mPD		20	05-Feb-24 A	04-Mar-24 A			100%
P7-Tx1000	Construction of Tx Rm Double Slab at +12.55mPD	20	05-Feb-24 A	04-Mar-24 A		1	100%
Roof Slab		263	01-Dec-23 A	17-Sep-24 A			100%
Bay 1		91	12-Dec-23 A	27-May-24 A			100%
P7-RF1000	Erection of falsework and working platform for G/F to R/F wall	6	12-Dec-23 A	19-Dec-23 A		1	100%
P7-RF1010	Erection of One Side Formwork for G/F to R/F Wall	5	19-Dec-23 A	23-Dec-23 A		1	100%
P7-RF1020	Rebar Fixing for G/F to R/F Wall	5	23-Dec-23 A	15-Jan-24 A		1	100%
P7-RF1030	Erection of remaining side formwork for G/F to R/F Wall	4	15-Jan-24 A	23-Jan-24 A		1	100%
P7-RF1040	Erection of falsework and working platform for R/F Slab	4	23-Jan-24 A	31-Jan-24 A		1	100%
P7-RF1050	Erection of Formwork for R/F Slab	5	31-Jan-24 A	08-Feb-24 A		1	100%
P7-RF1060	Rebar Fixing for R/F Slab	4	29-Feb-24 A	08-Mar-24 A		1	100%
P7-RF1070	R/F Slab Shutters	4	09-Mar-24 A	20-Mar-24 A		1	100%
P7-RF1080	R/F Slab & G/F to R/F wall Concreting	3	20-May-24 A	27-May-24 A		1	100%
Bay 2		119	01-Dec-23 A	15-Jun-24 A			100%
P7-RF1090	Erection of falsework and working platform for G/F to R/F wall	6	01-Dec-23 A	07-Dec-23 A		1	100%
P7-RF1100	Erection of One Side Formwork for G/F to R/F Wall	5	07-Dec-23 A	11-Dec-23 A		1	100%
P7-RF1110	Rebar Fixing for G/F to R/F Wall	5	11-Dec-23 A	16-Dec-23 A		1	100%
P7-RF1120	Erection of remaining side formwork for G/F to R/F Wall	4	16-Dec-23 A	20-Dec-23 A		1	100%
P7-RF1130	Erection of falsework and working platform for R/F Slab	4	21-Dec-23 A	27-Dec-23 A		1	100%
P7-RF1140	Erection of Formwork for R/F Slab	5	27-Dec-23 A	11-Jan-24 A		1	100%
P7-RF1150	Rebar Fixing for R/F Slab	5	02-Apr-24 A	08-Apr-24 A		1	100%
P7-RF1160	R/F Slab Shutters	4	08-Apr-24 A	13-Apr-24 A		1	100%
P7-RF1170	R/F Slab & G/F to R/F wall Concreting	3	08-Jun-24 A	15-Jun-24 A		1	100%
Bay 3		156	22-Dec-23 A	21-Jun-24 A			100%
P7-RF1180	Erection of falsework and working platform for G/F to R/F wall	6	22-Dec-23 A	04-Jan-24 A		1	100%
P7-RF1190	Erection of One Side Formwork for G/F to R/F Wall	4	04-Jan-24 A	11-Jan-24 A		1	100%
P7-RF1200	Rebar Fixing for G/F to R/F Wall	4	11-Jan-24 A	18-Jan-24 A		1	100%
P7-RF1210	Erection of remaining side formwork for G/F to R/F Wall	6	19-Jan-24 A	27-Jan-24 A		1	100%
P7-RF1220	Erection of falsework and working platform for R/F Slab	4	27-Jan-24 A	02-Feb-24 A		1	100%
P7-RF1230	Erection of Formwork for R/F Slab	4	02-Apr-24 A	06-Apr-24 A		1	100%
P7-RF1240	Rebar Fixing for R/F Slab	4	06-Apr-24 A	11-Apr-24 A		1	100%



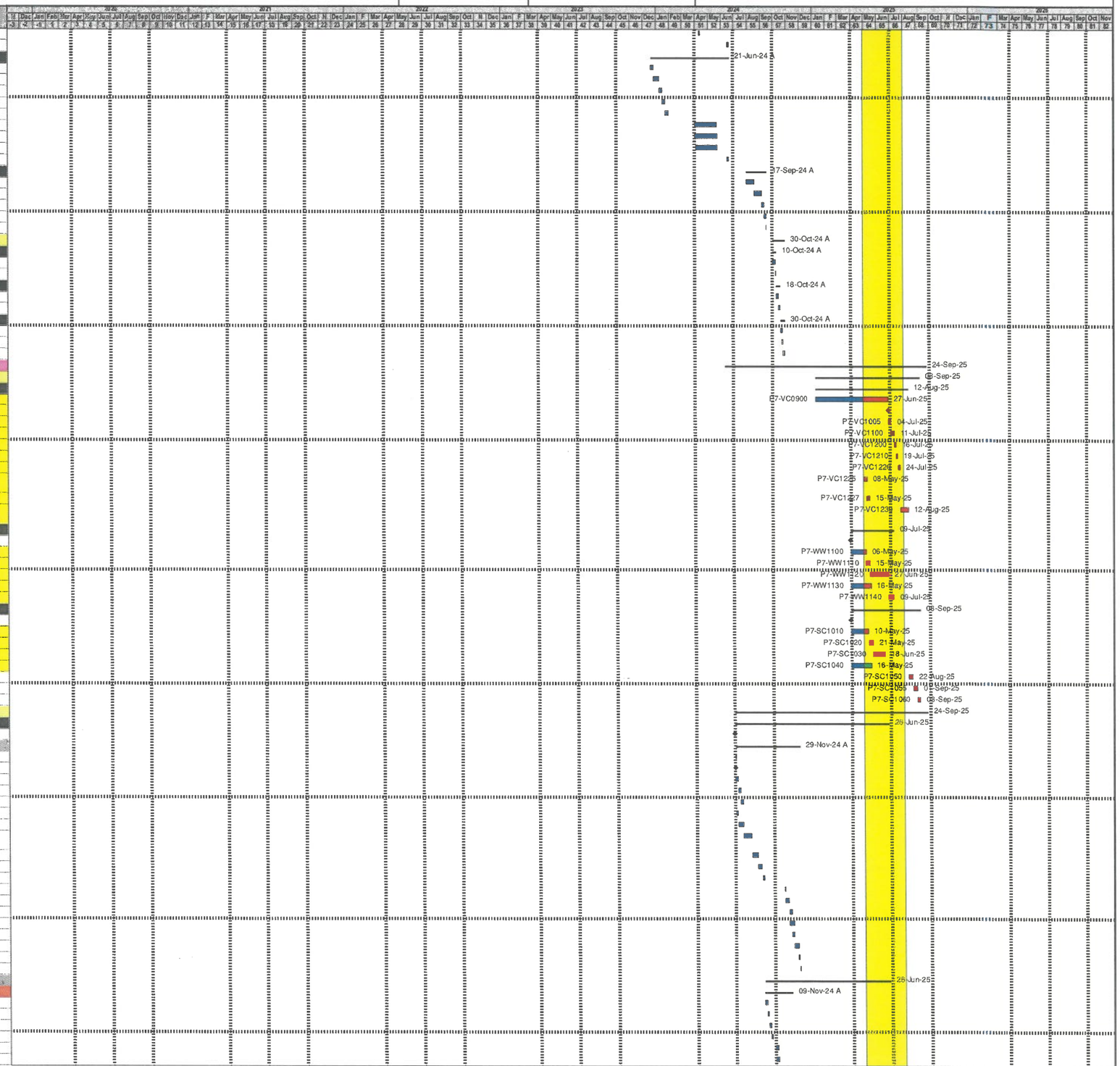
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P7-RF1250	R/F Slab Shutters	3	11-Apr-24 A	13-Apr-24 A		1	100%
P7-RF1260	R/F Slab & G/F to R/F wall Concreting	2	17-Jun-24 A	21-Jun-24 A		1	100%
Bay 4		158	21-Dec-23 A	21-Jun-24 A			100%
P7-RF1270	Erection of falsework and working platform for G/F to R/F wall	4	21-Dec-23 A	27-Dec-23 A		1	100%
P7-RF1280	Erection of One Side Formwork for G/F to R/F Wall	4	27-Dec-23 A	10-Jan-24 A		1	100%
P7-RF1290	Rebar Fixing for G/F to R/F Wall	4	10-Jan-24 A	17-Jan-24 A		1	100%
P7-RF1300	Erection of remaining side formwork for G/F to R/F Wall	4	17-Jan-24 A	23-Jan-24 A		1	100%
P7-RF1310	Erection of falsework and working platform for R/F Slab	5	23-Jan-24 A	31-Jan-24 A		1	100%
P7-RF1320	Erection of Formwork for R/F Slab	2	02-Apr-24 A	24-May-24 A		1	100%
P7-RF1330	Rebar Fixing for R/F Slab	3	02-Apr-24 A	26-May-24 A		1	100%
P7-RF1340	R/F Slab Shutters	3	05-Apr-24 A	28-May-24 A		1	100%
P7-RF1350	R/F Slab & G/F to R/F wall Concreting	2	17-Jun-24 A	21-Jun-24 A		1	100%
Planter Wall		18	01-Aug-24 A	17-Sep-24 A			100%
P7-RF1351	Rebar Fixing for Planter Walls at Roof	18	01-Aug-24 A	19-Aug-24 A			100%
P7-RF1361	Erection of Formwork for Planter Walls at Roof	18	20-Aug-24 A	06-Sep-24 A			100%
P7-RF1371	Concreting of Planter Walls at Roof	4	07-Sep-24 A	11-Sep-24 A			100%
P7-RF1381	Dismantling of Formwork and Concrete Finishing works	4	12-Sep-24 A	16-Sep-24 A			100%
P7-RF1391	Report Completion of Planter Wall Construction	1	17-Sep-24 A	17-Sep-24 A			100%
External Staircase		26	02-Oct-24 A	30-Oct-24 A			100%
+7.50mPD to +9.79mPD		9	02-Oct-24 A	10-Oct-24 A			100%
P7-ES-0001	RC works 1.2m x 3.12m (inclined)	9	02-Oct-24 A	08-Oct-24 A			100%
P7-ES-0011	RC works 1.2m x 1.2m (straight)	3	08-Oct-24 A	10-Oct-24 A			100%
+9.79mPD to +12.08mPD		11	10-Oct-24 A	18-Oct-24 A			100%
P7-ES-0002	RC works 1.2m x 3.12m (inclined)	4	10-Oct-24 A	15-Oct-24 A			100%
P7-ES-0012	RC works 1.2m x 1.2m (straight)	4	15-Oct-24 A	18-Oct-24 A			100%
+12.08mPD to +14.20mPD		9	21-Oct-24 A	30-Oct-24 A			100%
P7-ES-0003	RC works 2.88m x 1.2 (inclined)	4	21-Oct-24 A	24-Oct-24 A			100%
P7-ES-0013	RC works 2.6m x 1.2m (straight)	3	23-Oct-24 A	25-Oct-24 A			100%
P7-ES-0023	Removal of formwork	4	25-Oct-24 A	30-Oct-24 A			100%
ABWF/ E&M Works		424	11-Jun-24 A	24-Sep-25	238		67.56%
Basement Floor		395	09-Jan-25 A	08-Sep-25	21		69.18%
Valve Chamber		370	09-Jan-25 A	12-Aug-25	-134		73.87%
P7-VC0900	Dismantling Falsework from R/F to B/F	60	09-Jan-25 A	27-Jun-25	-159		9.26%
P7-VC1000	Access Date of Valve Chamber Builders works	0	28-Jun-25		-159		0%
P7-VC1005	Concrete Defect Repairing	6	28-Jun-25	04-Jul-25	-159	0	0%
P7-VC1100	Concrete Plinth for resting the twins rising mains	7	04-Jul-25	11-Jul-25	-159	0	0%
P7-VC1200	Waterproofing works of Valve Chamber	4	11-Jul-25	16-Jul-25	-159	0	0%
P7-VC1210	Flooding Test and Infra Red test after waterproofing	4	16-Jul-25	19-Jul-25	-159	0	0%
P7-VC1220	Floor Screed	4	21-Jul-25	24-Jul-25	-159	0	0%
P7-VC1225	Erect working platform from +1.55mPD to +7.85mPD for Steel Staircase Installation	7	30-Apr-25 A	08-May-25	-52	0	0%
P7-VC1227	Steel Staircase installation (+1.55mPD to +4.35mPD)	7	08-May-25*	15-May-25	-52	0	0%
P7-VC1230	Twins rising mains installation with connection to wet well and outside external area	18	25-Jul-25	12-Aug-25	-159	0	0%
Wet Well		88	31-Mar-25 A	09-Jul-25	-102		27.64%
P7-WW1000	Access Date of Wet Well Builders works	0	31-Mar-25 A				100%
P7-WW1100	Scaffolding and working platform modification	5	31-Mar-25 A	06-May-25	-127	0	0%
P7-WW1110	Wall and Ceiling Waterproofing, testing and screeding	9	06-May-25	15-May-25	-127	0	0%
P7-WW1120	Submersible Sewerage Pump Installation and Pipe Connection to Valve Chamber	40	15-May-25	27-Jun-25	-127	0	0%
P7-WW1130	Cat Ladder Installation	15	31-Mar-25 A	16-May-25	-53	0	0%
P7-WW1140	Filling of Void of wet well	10	27-Jun-25	09-Jul-25	-127	0	0%
Screen Chamber & Retention Tank		146	31-Mar-25 A	08-Sep-25	21		16.72%
P7-SC1000	Access Date of Screen Chamber Builders works	0	31-Mar-25 A				100%
P7-SC1010	Scaffolding and working platform erection	10	31-Mar-25 A	10-May-25	-108	0	0%
P7-SC1020	Wall and Ceiling Waterproofing & Testing	10	12-May-25	21-May-25	-108	0	0%
P7-SC1030	Pipe work Installation and Bar Screen Installation	25	22-May-25	18-Jun-25	-108	0	0%
P7-SC1040	Cat Ladder / Penstock Installation (Additional works under PMI-275)	15	31-Mar-25 A	16-May-25	128	0	0%
P7-SC1050	T&C for Basement Floor Equipment	10	13-Aug-25	22-Aug-25	-159	0	0%
P7-SC1055	Application of protective lining to all wet surfaces	9	23-Aug-25	01-Sep-25	-159		0%
P7-SC1060	Water tightness testing for retention tank	6	02-Sep-25	08-Sep-25	-159		0%
Ground Floor		411	30-Jun-24 A	24-Sep-25	238		66.5%
Tx Room / Switch Room		326	30-Jun-24 A	26-Jun-25	-118		83.9%
P7-Tx3000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	30-Jun-24 A				100%
ABWF		143	02-Jul-24 A	03-Nov-24 A			100%
P7-Tx3010	Setting Out	2	02-Jul-24 A	03-Jul-24 A		0	100%
P7-Tx3020	Access Date of Tx Room Double Slab Builders works	0	02-Jul-24 A				100%
P7-Tx3025	Formwork dismantling and touch up works	6	02-Jul-24 A	08-Jul-24 A		0	100%
P7-Tx3030	Waterproofing works of Tx Room Double Slab	6	08-Jul-24 A	13-Jul-24 A		0	100%
P7-Tx3040	Flooding Test and Infra Red test after waterproofing	6	13-Jul-24 A	20-Jul-24 A		0	100%
P7-Tx3050	Erect Scaffolding for wall and ceiling finishes of Tx Rm	3	03-Jul-24 A	06-Jul-24 A		0	100%
P7-Tx3060	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	08-Jul-24 A	20-Jul-24 A		0	100%
P7-Tx3070	Wall Finishes (Wall plastering, Louvre Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	12	20-Jul-24 A	08-Aug-24 A		0	100%
P7-Tx3080	Cable Trench Plastering	12	09-Aug-24 A	22-Aug-24 A		0	100%
P7-Tx3090	Cable Trench Angle Frame Installation	7	23-Aug-24 A	30-Aug-24 A		0	100%
P7-Tx3100	Floor Screeding	5	02-Sep-24 A	06-Sep-24 A		0	100%
P7-Tx3110	Metal Door Frame Installation (MOS 10-Oct-24)	3	24-Oct-24 A	26-Oct-24 A		0	100%
P7-Tx3120	Ceiling And Wall Painting (Final Coat)	6	26-Oct-24 A	02-Nov-24 A		0	100%
P7-Tx3130	Chequer Plate Installation (MOS 7-Oct-24)	6	04-Nov-24 A	09-Nov-24 A		0	100%
P7-Tx3135	Louvres Installation (MOS 30-Sep-24)	11	04-Nov-24 A	14-Nov-24 A		0	100%
P7-Tx3140	Painting to Chequer Plate	5	09-Nov-24 A	14-Nov-24 A		0	100%
P7-Tx3150	Floor Dust Proof Coating	10	14-Nov-24 A	25-Nov-24 A		0	100%
P7-Tx3160	Durasteel Installation to Air Duct	3	25-Nov-24 A	27-Nov-24 A		0	100%
P7-Tx3170	Metal Door Leaf Installation	2	28-Nov-24 A	29-Nov-24 A		0	100%
BS Works		241	07-Sep-24 A	26-Jun-25	-118		73.27%
Electrical Works		43	07-Sep-24 A	09-Nov-24 A			100%
P7-Tx3190	Intallation (Electrical) of Conduit at Tx Room	4	07-Sep-24 A	11-Sep-24 A		2	100%
P7-Tx3200	Cable Wiring at Tx Room	3	12-Sep-24 A	14-Sep-24 A		2	100%
P7-Tx3210	Installation of Light Fitting at Tx Room	4	16-Sep-24 A	20-Sep-24 A		2	100%
P7-Tx3220	Delivery of Cable Tray	3	21-Sep-24 A	24-Sep-24 A		2	100%
P7-Tx3230	Installation of Cable Tray over ceiling	6	30-Sep-24 A	07-Oct-24 A		2	100%
P7-Tx3240	Intallation (Electrical) of Conduit at Switch Room	5	02-Oct-24 A	08-Oct-24 A		2	100%



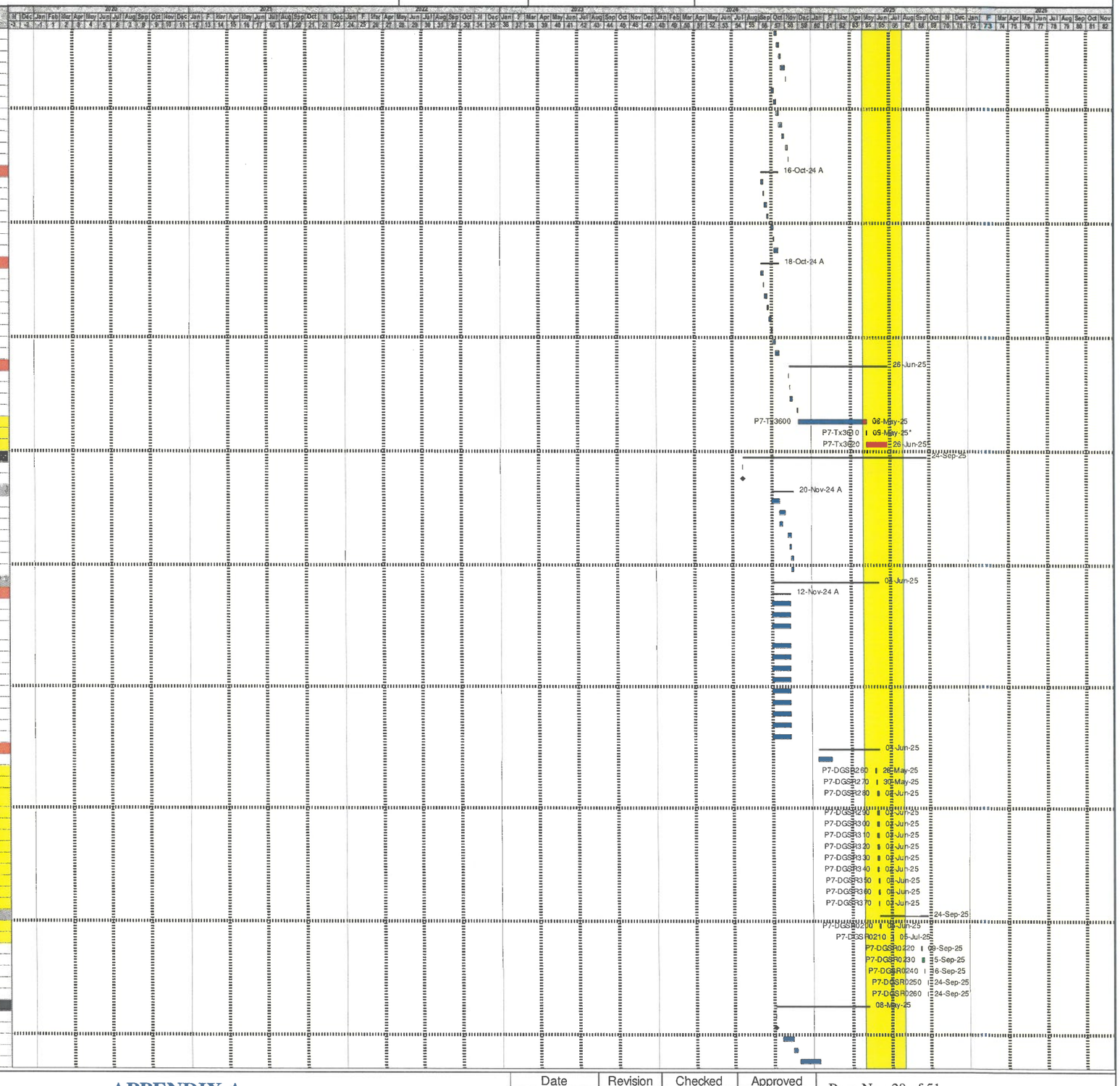
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	Trade	Duration % Complete
P7-Tx3250	Cable Wiring at Switch Room	5	08-Oct-24 A	14-Oct-24 A		2	100%
P7-Tx3260	Installation of Light Fitting at Switch Room	5	14-Oct-24 A	19-Oct-24 A		2	100%
P7-Tx3270	FAT of Switchboard	3	19-Oct-24 A	22-Oct-24 A		2	100%
P7-Tx3280	Delivery and assembly of Switchboard at Switch Room	23	22-Oct-24 A	02-Nov-24 A		2	100%
P7-Tx3290	SAT of Switchboard	1	04-Nov-24 A	04-Nov-24 A		2	100%
P7-Tx3300	Installation of MCB Board	4	02-Oct-24 A	07-Oct-24 A		2	100%
P7-Tx3310	Installation of Earthing System at Tx Room and Switch Room	5	07-Oct-24 A	12-Oct-24 A		2	100%
P7-Tx3320	System T&C (Electrical Works)	5	12-Oct-24 A	18-Oct-24 A		2	100%
P7-Tx3330	Installation of Lighting conductors	7	18-Oct-24 A	25-Oct-24 A		2	100%
P7-Tx3340	Installation of Lightning Pits	4	25-Oct-24 A	30-Oct-24 A		2	100%
P7-Tx3350	Installation of Earthing Pits	5	04-Nov-24 A	08-Nov-24 A		2	100%
P7-Tx3360	Earthing and Lightning T&C	1	09-Nov-24 A	09-Nov-24 A		2	100%
MVAC Works		13	07-Sep-24 A	16-Oct-24 A			100%
P7-Tx3380	Intallation (MVAC) of Conduit at Tx Room	4	07-Sep-24 A	11-Sep-24 A		2	100%
P7-Tx3390	Cable Wiring (MVAC) of Conduit at Tx Room	2	12-Sep-24 A	13-Sep-24 A		2	100%
P7-Tx3400	Installation of Fan and Air Duct at Tx Room	5	14-Sep-24 A	20-Sep-24 A		2	100%
P7-Tx3410	Installation of Fan Controller at Tx Room	3	21-Sep-24 A	24-Sep-24 A		2	100%
P7-Tx3420	Installation of Fan and Air Duct at Switchroom	5	30-Sep-24 A	05-Oct-24 A		2	100%
P7-Tx3430	Installation of LMCP at Switchroom	2	05-Oct-24 A	07-Oct-24 A		2	100%
P7-Tx3440	System T&C (MVAC Works)	7	07-Oct-24 A	16-Oct-24 A		2	100%
FS Works		16	07-Sep-24 A	18-Oct-24 A			100%
P7-Tx3450	Intallation (FS) of Conduit at Tx Room	4	07-Sep-24 A	11-Sep-24 A		2	100%
P7-Tx3460	Cable Wiring (FS) of Conduit at Tx Room	2	12-Sep-24 A	13-Sep-24 A		2	100%
P7-Tx3470	Installation of Heat Detector at Tx Room	5	14-Sep-24 A	20-Sep-24 A		2	100%
P7-Tx3480	Installation of (FS) Conduit at Switchroom	3	21-Sep-24 A	24-Sep-24 A		2	100%
P7-Tx3490	Cable Wiring (FS) of Conduit at Switchroom	5	25-Sep-24 A	30-Sep-24 A		2	100%
P7-Tx3500	Installation of Heat Detector at Switchroom	2	30-Sep-24 A	02-Oct-24 A		2	100%
P7-Tx3510	Installation of AFA panel and audio / visual alarm equipment	7	02-Oct-24 A	10-Oct-24 A		2	100%
P7-Tx3520	System T&C (FS Works)	7	10-Oct-24 A	18-Oct-24 A		2	100%
CLP works & Statutory Inspection		205	09-Nov-24 A	26-Jun-25	-118		74.38%
P7-Tx3525	Submit WR1	1	09-Nov-24 A	09-Nov-24 A		2	100%
P7-Tx3550	CLP Inspection of Tx Room [11-Nov-2024]	0	11-Nov-24 A	11-Nov-24 A		2	100%
P7-Tx3560	Defect Rectification	6	12-Nov-24 A	18-Nov-24 A		2	100%
P7-Tx3590	Handover Inspection with CLP	1	30-Nov-24 A	30-Nov-24 A		2	100%
P7-Tx3600	CLP Installation Works	60	30-Nov-24 A	08-May-25	-118	2	87.22%
P7-Tx3610	Energization of Tx Equipment	1	08-May-25	09-May-25*	-118	2	0%
P7-Tx3620	CLP Electric Meter Installation	44	09-May-25	26-Jun-25*	-118	2	0%
Dangerous Goods Storage Room (DGSR) | PMI No. 202		405	24-Jul-24 A	24-Sep-25	238		71.75%
P7-DGS-IN-06521	PMI No. 196/202 and CE No 231 assigned and Quote Accepted on 24-Jul-2024	1	24-Jul-24 A	24-Jul-24 A			100%
P7-DGSR0020	Access Date of G/F DGSR	0	25-Jul-24 A				100%
Civil Works		47	03-Sep-24 A	20-Nov-24 A			100%
P7-DGSR0030	Formwork/Rebar/Concrete for R.C. kerb (600(H))	16	30-Sep-24 A	18-Oct-24 A			100%
P7-DGSR0160	Formwork/Rebar/Concrete for Walls	13	18-Oct-24 A	01-Nov-24 A			100%
P7-DGSR0170	Formwork/Rebar/Concrete for Slab	8	18-Oct-24 A	26-Oct-24 A			100%
P7-DGSR0171	Formwork/Rebar/Concrete for Top Slab	8	07-Nov-24 A	15-Nov-24 A			100%
P7-DGSR0180	Floor finishing	4	11-Nov-24 A	15-Nov-24 A			100%
P7-DGSR0190	Wall finishing	4	15-Nov-24 A	20-Nov-24 A			100%
P7-DGSR0380	Ceiling finishing	4	15-Nov-24 A	20-Nov-24 A			100%
E&M & ABWF Works		221	30-Sep-24 A	04-Jun-25	121		99.23%
MOS		40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0040	2 Fire Damper with ET Link	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0050	1 FM200 fixed spray unit, sand bucket and fire extinguisher	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0060	1 Intrinsically safe heat detector with module and barriers including softwarem MICC cable and programming	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0070	1 Additional weatherproof alarm bell with control module	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0080	1 Additional weatherproof Breakglass unit	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0090	1 Additional weatherproof Remote Light with module	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0100	5 Additional Module for ETL and Manual release unit	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0110	1 Additional Loop card for AFA panel	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0120	1 Additional DG signage	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0130	1 Manual release unit with SS marshaling box	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0140	2 Intrinsically safe lighting	40	30-Sep-24 A	12-Nov-24 A			100%
P7-DGSR0150	1 Additional charger and battery	40	30-Sep-24 A	12-Nov-24 A			100%
Installation		178	15-Jan-25 A	04-Jun-25	120		99.31%
P7-DGSR259	Double leaf door (2300 W x 2800 H) installation	9	15-Jan-25 A	14-Feb-25 A			100%
P7-DGSR260	2 Fire Damper with ET Link	3	26-May-25*	28-May-25	120		0%
P7-DGSR270	1 FM200 fixed spray unit, sand bucket and fire extinguisher	2	28-May-25*	30-May-25	120		0%
P7-DGSR280	1 Intrinsically safe heat detector with module and barriers including softwarem MICC cable and programming	3	30-May-25*	03-Jun-25	120		0%
P7-DGSR290	1 Additional weatherproof alarm bell with control module	3	30-May-25	03-Jun-25	120		0%
P7-DGSR300	1 Additional weatherproof Breakglass unit	3	30-May-25	03-Jun-25	120		0%
P7-DGSR310	1 Additional weatherproof Remote Light with module	3	30-May-25	03-Jun-25	120		0%
P7-DGSR320	5 Additional Module for ETL and Manual release unit	3	30-May-25	03-Jun-25	120		0%
P7-DGSR330	1 Additional Loop card for AFA panel	3	30-May-25	03-Jun-25	120		0%
P7-DGSR340	1 Additional DG signage	1	30-May-25	02-Jun-25	120		0%
P7-DGSR350	1 Manual release unit with SS marshaling box	3	02-Jun-25*	04-Jun-25	120		0%
P7-DGSR360	2 intrinsically safe lighting	3	02-Jun-25	04-Jun-25	120		0%
P7-DGSR370	1 Additional charger and battery	2	02-Jun-25	03-Jun-25	120		0%
Statutory Inspection		107	03-Jun-25	24-Sep-25	39		0%
P7-DGSR0200	Overall T&C	2	03-Jun-25	05-Jun-25	120		0%
P7-DGSR0210	Submit FS Form for FSD Inspection	1	04-Jul-25	05-Jul-25	93		0%
P7-DGSR0220	FSD Inspection	1	08-Sep-25	09-Sep-25	39		0%
P7-DGSR0230	Defect rectification and Submit Form for Re-inspection	6	09-Sep-25	15-Sep-25	39		0%
P7-DGSR0240	2nd round FS Inspection	1	16-Sep-25	16-Sep-25	39		0%
P7-DGSR0250	Issue Fire Certificate	1	24-Sep-25	24-Sep-25	39		0%
P7-DGSR0260	Issue WR1/WR2 and FS251	1	24-Sep-25	24-Sep-25	39		0%
Staff Toilet Room		274	04-Oct-24 A	08-May-25	-45		97.45%
P7-STR0010	PMI No. 209 Other E&M Installation works requested by DSD (29-Jul-24)	1	04-Oct-24 A	04-Oct-24 A			100%
P7-STR0020	Access Date of G/F Staff Toilet Room	0	04-Oct-24 A				100%
P7-STR0030	RC works for staff toilet room	25	21-Oct-24 A	15-Nov-24 A			100%
P7-STR0031	Material for sanitary fitment acceptance	3	15-Nov-24 A	22-Nov-24 A			100%
P7-STR0040	ABWF installation works	7	30-Nov-24 A	15-Jan-25 A			100%



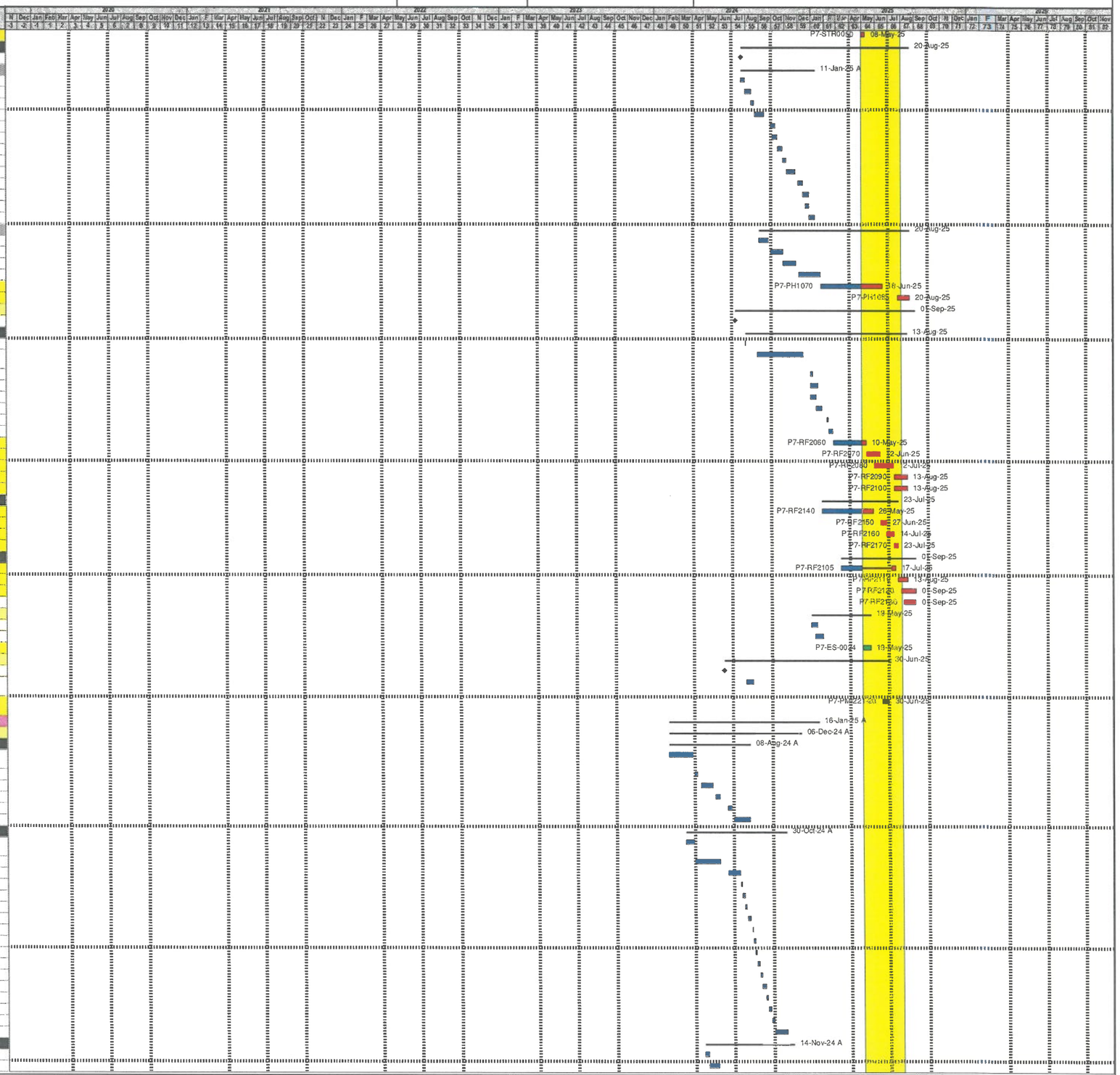
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P7-STR0050	BS installation works	7	30-Apr-25	08-May-25	-45		0%
Pump Hall		357	23-Jul-24 A	20-Aug-25	-142		70.76%
P7-PH1000	Access Date of G/F Pump Hall Fitting Out	0	23-Jul-24 A				100%
ABWF		150	23-Jul-24 A	11-Jan-25 A			100%
P7-PH1012	Concrete defect rectication and repairing	6	23-Jul-24 A	01-Aug-24 A		0	100%
P7-PH1014	Ceiling Plastering	10	02-Aug-24 A	15-Aug-24 A		0	100%
P7-PH1016	Wall Plastering and Door Frame Installation	6	16-Aug-24 A	23-Aug-24 A		0	100%
P7-PH1018	Floor Screeding	8	24-Aug-24 A	14-Sep-24 A		0	100%
P7-PH1020	Wall Finishes and Door Installation	10	30-Sep-24 A	10-Oct-24 A		0	100%
P7-PH1022	Floor Finishes	10	04-Oct-24 A	15-Oct-24 A		0	100%
P7-PH1024	Window / Lourvre Installation with grouting and water testing	10	17-Oct-24 A	26-Oct-24 A		0	100%
P7-PH1028	Steel Staircase Installation (+4.35mPD to +7.65mPD)	8	28-Oct-24 A	05-Nov-24 A		0	100%
P7-PH1030	Overhead traveling crane Installation at the ceiling of Pump Hall	20	06-Nov-24 A	27-Nov-24 A		0	100%
P7-PH1040	Lifting Chain Installation	10	04-Dec-24 A	14-Dec-24 A		0	100%
P7-PH1050	Bund Wall and Chemical Storage Tank Installation	12	14-Dec-24 A	28-Dec-24 A		0	100%
P7-PH1060	Handrail Installation surrounding opening of pump hall	6	20-Dec-24 A	28-Dec-24 A		0	100%
P7-PH1075	Steel Covers of opening of pump hall (30nos.)	12	28-Dec-24 A	11-Jan-25 A		0	100%
BS Works		235	02-Sep-24 A	30-Aug-25	-142		64.35%
P7-PH1015	BS 1st Fixing (Elec, FS)	21	02-Sep-24 A	25-Sep-24 A		0	100%
P7-PH1025	BS 2nd Fixing (Elec, FS, PLC)	25	30-Sep-24 A	28-Oct-24 A		0	100%
P7-PH1035	BS final Fixing	30	28-Oct-24 A	28-Nov-24 A		0	100%
P7-PH1045	FRR Shutters Installation (3nos)	45	05-Dec-24 A	24-Jan-25 A		0	100%
P7-PH1070	T&C of Pump Hall Equipments & connection of AFA system to Megalink	45	25-Jan-25 A	18-Jun-25	-110	0	0%
P7-PH1085	Overall System T&C before FSD Inspection	28	23-Jul-25	20-Aug-25	-142	2	0%
Roof Floor		383	08-Jul-24 A	01-Sep-25	-23		69.8%
P7-RF2000	Access Date of Roof Fitting Out	0	08-Jul-24 A				100%
ABWF		313	01-Aug-24 A	13-Aug-25	-23		68.79%
P7-RF2010	Setting Out	2	01-Aug-24 A	02-Aug-24 A		0	100%
P7-RF2015	Obtain PM acceptance of Material submission for roof waterproofing (Sika 680) [CSF_239]	99	29-Aug-24 A	14-Dec-24 A			100%
P7-RF2031	Mock up of roof waterproofing	5	31-Dec-24 A	06-Jan-25 A			100%
P7-RF2032	Lead time for waterproofing MOS (6 weeks)	30	31-Dec-24 A	18-Jan-25 A			100%
P7-RF2033	Roof RC Structure Water Testing before waterproofing	12	31-Dec-24 A	13-Jan-25 A		0	100%
P7-RF2034	Remedial and touch up works before applying waterproofing	12	13-Jan-25 A	28-Jan-25 A		0	100%
P7-RF2040	Applying Roof waterproofing Membrane	3	08-Feb-25 A	11-Feb-25 A		0	100%
P7-RF2050	Water Testing & Infra red testing	10	12-Feb-25 A	21-Feb-25 A		0	100%
P7-RF2060	Laying Insulation board with protection floor screed	10	22-Feb-25 A	10-May-25	-142	0	0%
P7-RF2070	Laying Floor finishes	30	12-May-25	12-Jun-25	-142	0	0%
P7-RF2080	Roof water tank Installation & testing	40	30-May-25	12-Jul-25	-23	0	0%
P7-RF2090	Roof Skylight Installation	30	14-Jul-25	13-Aug-25	-23	0	0%
P7-RF2100	Roof Balustrade & Fall Arrest system Installation	30	14-Jul-25	13-Aug-25	-23	0	0%
BS Works		158	25-Jan-25 A	23-Jul-25	-142		51.47%
P7-RF2140	BS 1st Fixing (Elec, Water, irrigation piping)	27	25-Jan-25 A	26-May-25	-126	0	10%
P7-RF2150	BS 2nd Fixing (Elec, Water, Irrigation System connection)	14	13-Jun-25	27-Jun-25	-142	0	0%
P7-RF2160	BS final Fixing	14	27-Jun-25	14-Jul-25	-142	0	0%
P7-RF2170	T&C of Roof BS System	9	14-Jul-25	23-Jul-25	-142	0	0%
Landscape Works		159	10-Mar-25 A	01-Sep-25	-23		65.9%
P7-RF2105	Roof Planters Drainages, irrigation pipe, Artifical Granite Tile Installation	27	10-Mar-25 A	17-Jul-25	-19	0	60.42%
P7-RF2110	Soil Backfilling to Roof Planters	22	22-Jul-25	13-Aug-25	-23	0	0%
P7-RF2120	Shurbs Planting works to roof floor (5,802 nos)	31	31-Jul-25	01-Sep-25	-23	0	0%
P7-RF2130	Water Points installation for irrigation	25	06-Aug-25	01-Sep-25	-23	0	0%
External Staircase		123	31-Dec-24 A	19-May-25	23		85.59%
P7-ES-0004	Floor Tile Installation	14	31-Dec-24 A	15-Jan-25 A			100%
P7-ES-0014	Metal Parapet and Handrail Installation	18	10-Jan-25 A	28-Jan-25 A			100%
P7-ES-0024	Laying of staircase finishes	18	30-Apr-25 A	19-May-25	23		0%
PMI-200 Revised Layout of Boundary Fence Wall to Suit DSD Maintenance Requirement		343	11-Jun-24 A	30-Jun-25	-24		95.79%
P7-PMI221-01	PMI-221 received on 11 June 2024	0	11-Jun-24 A				100%
P7-PMI221-11	Obtain Quotation Acceptance from PM (1 Aug 2024, PMI No. changed from 221 to 200, CE No. 237)	19	01-Aug-24 A	17-Aug-24 A			100%
P7-PMI221-20	Construction of boundary fence wall of KTN SPS with revised layout and footing details	14	16-Jun-25*	30-Jun-25	-24	4	0%
External Works		332	01-Feb-24 A	16-Jan-25 A			100%
Drainage and Site Formation		332	01-Feb-24 A	06-Dec-24 A			100%
Rising main CHB0.0 to CHB55		151	01-Feb-24 A	08-Aug-24 A			100%
P7-1350	Open Trench formation for rising main CHB0.0 to CHB50 (50m long 4m Depth, 1.6-2mPD)	25	01-Feb-24 A	28-Mar-24 A		2	100%
P7-1351	Pour Concrete for Blinding (1st Half)	4	01-Apr-24 A	06-Apr-24 A			100%
P7-1360	Rising main laying (25m) (Twins DN700) [IN-06145]	15	16-Apr-24 A	13-May-24 A		3	100%
P7-1370	Pour Concrete for Blinding (2nd Half)	4	20-May-24 A	30-May-24 A			100%
P7-1380	Rising main laying (25m) (Twins DN700)	4	17-Jun-24 A	26-Jun-24 A			100%
P7-1390	Backfilling, Reinstatement, Extraction of Sheet Piles	19	02-Jul-24 A	08-Aug-24 A			100%
Sewerage Pipe FMH_KT1.47A to FMH_KT1.48A		221	11-Mar-24 A	30-Oct-24 A			100%
P7-1333	Open Trench formation for sewerage pipe KT1.47A to KT1.48A (12m long, -1.96mPD)	10	11-Mar-24 A	30-Mar-24 A		2	100%
P7-1334	Installation of Strut and Waling (1st Layer)	20	01-Apr-24 A	29-May-24 A		2	100%
P7-1334.1	Installation of Strut and Waling (2nd Layer)	20	17-Jun-24 A	15-Jul-24 A		2	100%
P7-1334.2	Dewatering works post-Inclement Weather	4	16-Jul-24 A	19-Jul-24 A			100%
P7-1334.26	Welding Works of 2nd Layer Waling and Strut	4	20-Jul-24 A	26-Jul-24 A			100%
P7-1334.27	Welding Test for 2nd Layer Waling and Strut	3	26-Jul-24 A	30-Jul-24 A			100%
P7-1334.36	Cutting sheet pile opening from twin DN1200 concrete pipe	7	01-Aug-24 A	08-Aug-24 A			100%
P7-1334.46	Inclement Weather [12 Aug 2024] Disruption followed by Dewatering Works	3	12-Aug-24 A	14-Aug-24 A			100%
P7-1336	Preparation for Sewerage Pipe laying KT1.47A to KT1.48A	4	15-Aug-24 A	19-Aug-24 A		3	100%
P7-1338	Inclement Weather [19 -22 Aug 2024] Disruption followed by Dewatering Works	4	19-Aug-24 A	22-Aug-24 A			100%
P7-1339	Stripping off formwork of 1.48 internal wall	4	23-Aug-24 A	27-Aug-24 A			100%
P7-1341	Cutting sheet pile for pipe trench at Manhole 1.48	4	29-Aug-24 A	02-Sep-24 A			100%
P7-1345	Sewerage Pipe laying between KT1.47A to KT1.48A (12m) 1200mm concrete pipe	8	03-Sep-24 A	11-Sep-24 A			100%
P7-1347	Air testing	4	12-Sep-24 A	16-Sep-24 A			100%
P7-1348	Concrete surround	5	17-Sep-24 A	24-Sep-24 A			100%
P7-1349	Backfilling	7	25-Sep-24 A	01-Oct-24 A			100%
P7-1359	Extraction of Sheet Piles & Reinstatement (abondoned some sheet pile)	27	02-Oct-24 A	30-Oct-24 A			100%
DN1050 Overflow Pipe FMH_KT 020		189	22-Apr-24 A	14-Nov-24 A			100%
P7-1375	Open Trench formation for DN1050 Overflow Pipe (24m long +5.3mPD)	15	22-Apr-24 A	01-May-24 A		2	100%
P7-1376	Installation of Strut and Waling (1st Layer)	20	02-May-24 A	24-May-24 A		2	100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

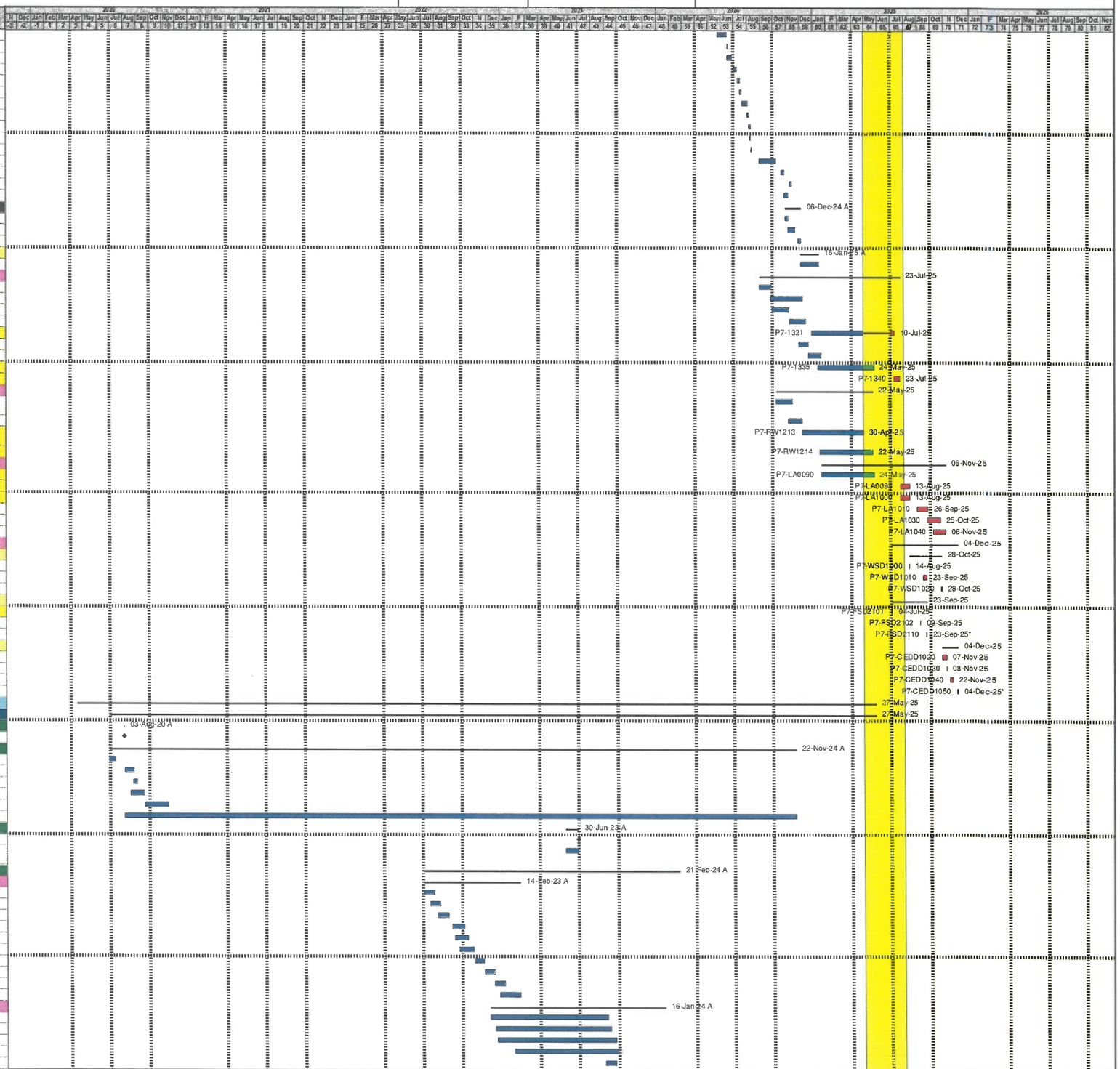
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	% Duration Complete
P7-1376.1	Installation of Strut and Waling (2nd Layer)	20	25-May-24 A	15-Jun-24 A		2	100%
P7-1376.11	Dewatering works post-Inclement Weather	2	17-Jun-24 A	18-Jun-24 A			100%
P7-1376.21	Trimming Road Surface for Excavation Wokrs to Formation Level	9	17-Jun-24 A	28-Jun-24 A			100%
P7-1376.31	Welding lagging works	6	02-Jul-24 A	10-Jul-24 A			100%
P7-1376.32	Dewatering works post-Inclement Weather	4	11-Jul-24 A	16-Jul-24 A			100%
P7-1376.41	Cut sheet pile opening for DN1050 concrete pipe	4	17-Jul-24 A	20-Jul-24 A			100%
P7-1377	Overflow Pipe laying (24m) (DN1050)	12	22-Jul-24 A	03-Aug-24 A		3	100%
P7-1378	Formwork for benching concrete pipe	2	03-Aug-24 A	06-Aug-24 A			100%
P7-1379	Concreting of concrete surrond of DN1050 concrete pipe	4	07-Aug-24 A	10-Aug-24 A			100%
P7-1379.1	Stripping off formwork of concrete surround	2	10-Aug-24 A	11-Aug-24 A			100%
P7-1379.2	Inclement Weather [12 Aug 2024] Disruption followed by Dewatering Works	3	12-Aug-24 A	14-Aug-24 A			100%
P7-1379.3	Manhole FMH_KT 020 construction	36	31-Aug-24 A	10-Oct-24 A			100%
P7-1386	Backdrop formwork and concreting	6	21-Oct-24 A	28-Oct-24 A			100%
P7-1387	Extraction of sheet piles	5	09-Nov-24 A	14-Nov-24 A			100%
P7-1388	Reinstatement (backfilling commenced from 19-Oct-2024)	9	29-Oct-24 A	06-Nov-24 A			100%
DN1050 Pipe Under SPS EVA		88	31-Oct-24 A	06-Dec-24 A			100%
P7-4170	Open Trench formation for DN1050 Pipe (Under SPS EVA)	8	31-Oct-24 A	07-Nov-24 A		2	100%
P7-4180	Pipe laying (DN1050)	9	07-Nov-24 A	22-Nov-24 A		3	100%
P7-4210	Backfilling and Reinstatement	6	30-Nov-24 A	06-Dec-24 A			100%
EVA Construction		36	06-Dec-24 A	16-Jan-25 A			100%
P7-4160	Construction of EVA and Parking Spaces	36	06-Dec-24 A	16-Jan-25 A		2	100%
External Finishes		293	31-Aug-22 A	23-Jul-25	-24		73.48%
P7-1300	Modify external scaffolding	25	31-Aug-24 A	27-Sep-24 A		3	100%
P7-1301	External Wall Plastering Works	67	26-Sep-24 A	10-Dec-24 A			100%
P7-1302	Waterproofing & Window / Louvre Glazing Works	36	30-Sep-24 A	08-Nov-24 A		6	100%
P7-1320	Fin Cladding Installation	36	09-Nov-24 A	17-Dec-24 A		6	100%
P7-1321	Fence Wall Gate Installation	36	30-Dec-24 A	10-Jul-25	-24	3	76.22%
P7-1325	RC Staircase Finishes works	20	30-Nov-24 A	23-Dec-24 A		6	100%
P7-1330	Door and external wall Recycle Timber Composite installation	25	23-Dec-24 A	21-Jan-25 A		3	100%
P7-1335	FRR Shutters Installation	38	14-Jan-25 A	24-May-25	19	3	38.11%
P7-1340	Removal of external scaffolding	12	10-Jul-25	23-Jul-25	-24	2	0%
Retaining Wall & U trough		122	10-Oct-24 A	22-May-25	33		82.89%
P7-RW1209	Construction of U Trough RC Structure wall (KW08 Type B) (Wall Founding level +5.6mPD)	35	10-Oct-24 A	16-Nov-24 A		3	100%
P7-RW1211	Soil backfill From +5.3mPD to +6.2mPD with testing	30	07-Nov-24 A	09-Dec-24 A		3	100%
P7-RW1213	Construction of U Trough RC Structure wall (KW08 Type A)(Wall Founding level +5.2mPD)	45	09-Dec-24 A	30-Apr-25	33	3	99.02%
P7-RW1214	Backfill to formation level to +7.5mPD	30	18-Jan-25 A	22-May-25	33	3	30.37%
Landscape Works		260	21-Jan-25 A	06-Nov-25	-23		32.98%
P7-LA0090	Climber Installation with Vertical Planting	30	21-Jan-25 A	24-May-25	31	2	23.33%
P7-LA0095	Placing irrigation pipe and Planting Soil near main entrance of SPS	20	24-Jul-25	13-Aug-25	24	2	0%
P7-LA1000	Placing irrigation pipe and Planting Soil Near Retaining Wall RW-08	20	24-Jul-25	13-Aug-25	-24	2	0%
P7-LA1010	Tree Planting (7nos. Tm & 7nos Tp) Near Retaining Wall RW-08	24	02-Sep-25	26-Sep-25	-23	2	0%
P7-LA1030	Tree Planting (4nos. BJ, 4nos VO & 1no. of WB) after wooden fence installation	25	26-Sep-25	25-Oct-25	-23	2	0%
P7-LA1040	Shrubs Planting (Tja, Rex, cte, oja etc.) Total 2,229 nos.	25	09-Oct-25	06-Nov-25	-23	2	0%
Statutory Inspection		142	04-Jul-25	04-Dec-25	-24		0%
WSD Inspection (Irrigation Water Supply)		69	14-Aug-25	28-Oct-25	-24		0%
P7-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Irrigation Water Supply	1	14-Aug-25	14-Aug-25	-24	2	0%
P7-WSD1010	WSD Inspection - Irrigation Water Supply	7	15-Sep-25	23-Sep-25	-24	2	0%
P7-WSD1020	Issue Water Certificate (Part V) - Irrigation Water Supply	1	27-Oct-25	28-Oct-25	-24	2	0%
FSD Inspection		76	04-Jul-25	23-Sep-25	-159		0%
P7-FSD2101	Submit FS Form 314 / 501 For FSD Inspection	0	04-Jul-25*	04-Jul-25	-112	2	0%
P7-FSD2102	FSD Inspection	1	08-Sep-25*	09-Sep-25	-159		0%
P7-FSD2110	Issue Fire Certificate (Form 172)	0	22-Sep-25	23-Sep-25*	-159	2	0%
CEDD / DSD Inspection		35	28-Oct-25	04-Dec-25	-24		0%
P7-CEDD1020	Overall System T&C before CEDD / DSD Inspection	9	28-Oct-25	07-Nov-25	-24	2	0%
P7-CEDD1030	Submit Inspection Form For CEDD /DSD inspection	1	07-Nov-25	08-Nov-25	-24	2	0%
P7-CEDD1040	CEDD / DSD Inspection	7	15-Nov-25	22-Nov-25	-24	2	0%
P7-CEDD1050	Issue Completion Certificate by CEDD and handover to DSD for operation	1	03-Dec-25	04-Dec-25*	-24	2	0%
Works in Section 3		1545	16-Apr-20 A	27-May-25	350		98.35%
Portion 8 - Roads & Drains		1545	29-Jun-20 A	27-May-25	350		98.35%
Site Possession		0	03-Aug-20 A	03-Aug-20 A			0%
P8-1000	Possession of site - Portion 8	0	03-Aug-20 A			0	100%
Pre-construction works		1545	29-Jun-20 A	22-Nov-24 A			100%
P8-1010	Utilities Detection in Portion 8	11	29-Jun-20 A	14-Jul-20 A		3	100%
P8-1020	Inspection Pit	16	04-Aug-20 A	25-Aug-20 A		4	100%
P8-1030	Coordination with UU owner to arrange diversion / abandon	16	25-Aug-20 A	01-Sep-20 A		0	100%
P8-1040	Circulation & Approval of TTAs	19	18-Aug-20 A	19-Sep-20 A		0	100%
P8-1050	Formation of Temporary Haul Road & Entrance to Portion 7 & Portion 10	27	21-Sep-20 A	14-Nov-20 A		2	100%
P8-1055	Tree Protection and Preservation	1545	03-Aug-20 A	22-Nov-24 A		4	100%
Cycle Track and Footpath Diversion (For KT1.41A to KT1.47A Construction)		109	01-Jun-23 A	30-Jun-23 A			100%
P8-5850	North Bridge Ramp Landing Completion	0		30-Jun-23 A			100%
P8-5900	Cycle Track Shifting to the top of North Bridge Ramp (After North Bridge Ramp Completion)	48	01-Jun-23 A	30-Jun-23 A			100%
Sewer Pipeline Installation		537	04-Jul-22 A	21-Feb-24 A			100%
KT1.40A - KT1.43.7 (50m)		202	04-Jul-22 A	14-Feb-23 A			100%
P8-5140	Sheet Pile Installation for open trench (Open Trench from 1.40A to 1.43.7)	23	04-Jul-22 A	29-Jul-22 A			100%
P8-5150	Soft Excavation to 1st strut level	22	18-Jul-22 A	11-Aug-22 A			100%
P8-5160	Installation of strut S1	23	05-Aug-22 A	30-Aug-22 A			100%
P8-5170	Soft Excavation to 2nd strut level	18	07-Sep-22 A	06-Oct-22 A			100%
P8-5180	Installation of strut S2	23	14-Sep-22 A	14-Oct-22 A			100%
P8-5190	Soft Excavation to F.L.	25	24-Sep-22 A	27-Oct-22 A			100%
P8-5200	Bedding & Pipe Laying (800 Concrete Pipe)	17	31-Oct-22 A	21-Nov-22 A			100%
P8-5205	Construction of Manhole KT1.43.7	19	23-Nov-22 A	16-Dec-22 A			100%
P8-5210	Backfilling of drain to at grade level with dismantling strut	20	16-Dec-22 A	09-Jan-23 A			100%
P8-5220	Extraction of sheet pile and reinstatement	40	28-Dec-22 A	14-Feb-23 A			100%
KT1.43.7 - KT1.41A (60m)		330	05-Dec-22 A	16-Jan-24 A			100%
P8-9090	Sheet Pile Installation for open trench (Open Trench from 1.43.7 to 1.41A)	20	05-Dec-22 A	05-Sep-23 A			100%
P8-9100	Soft Excavation to 1st strut level	20	17-Dec-22 A	11-Sep-23 A			100%
P8-9110	Installation of strut S1	20	21-Dec-22 A	23-Sep-23 A			100%
P8-9120	Soft Excavation to 2nd strut level	28	30-Jan-23 A	27-Sep-23 A			100%
P8-9130	Installation of strut S2	20	31-Aug-23 A	23-Sep-23 A			100%



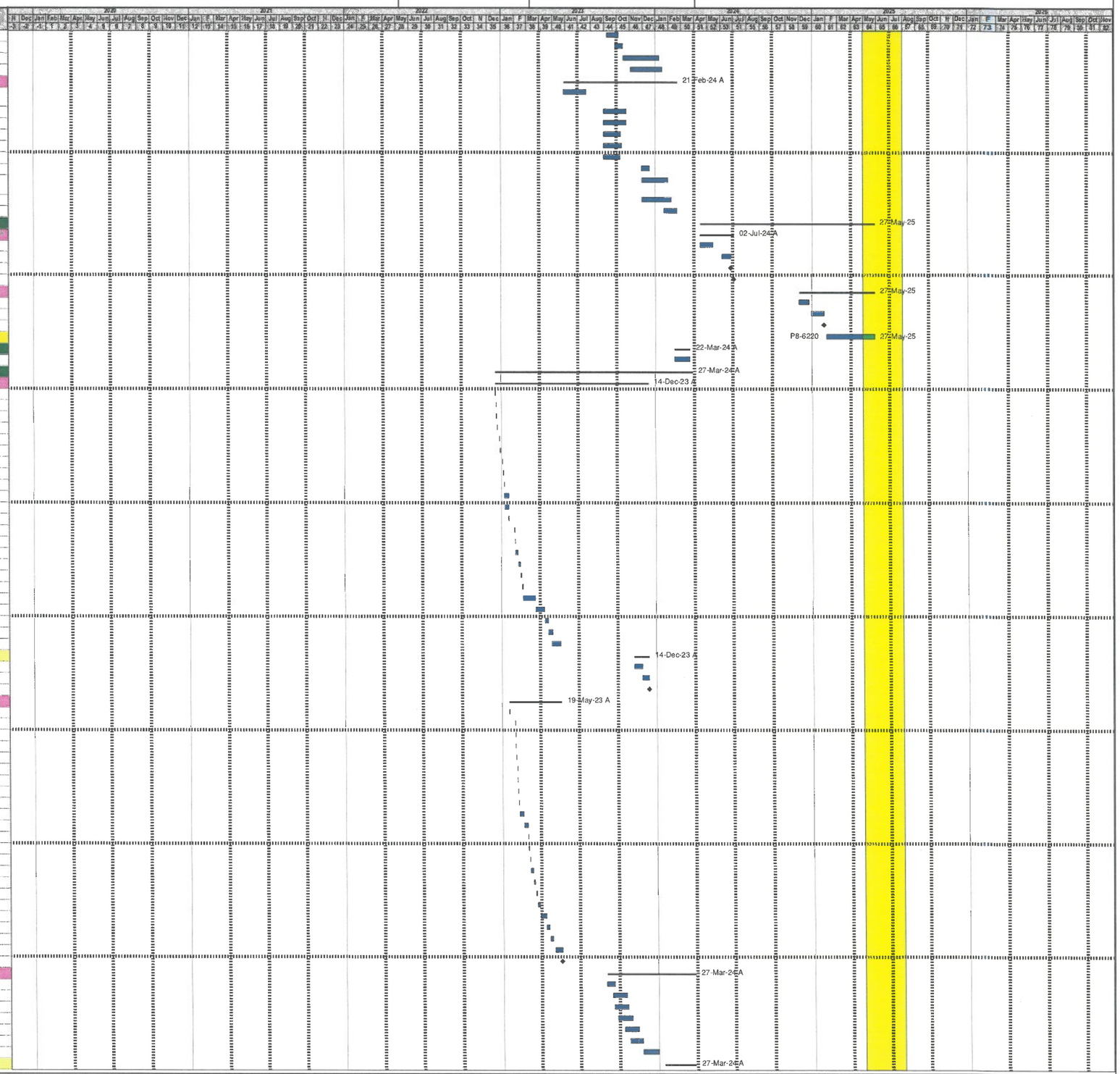
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	FRA	Duration % Complete
P8-9140	Soft Excavation to F.L.	21	08-Sep-23 A	05-Oct-23 A			100%
P8-9150	Bedding & Pipe Laying (1200 Concrete Pipe)	14	28-Sep-23 A	16-Oct-23 A			100%
P8-9155	Construction of Manhole KT1.41A	15	16-Oct-23 A	10-Jan-24 A		2	100%
P8-9160	Backfilling of drain to at grade level & Sheet Pile Extraction	21	03-Nov-23 A	16-Jan-24 A			100%
KT1.41A - KT1.47A(100m) (Open Cut by CE-076)		208	30-May-23 A	21-Feb-24 A			100%
P8-6000	Sheet Pile Installation for open trench (after Completion of Temp. Cycle Track and Footpath)	49	30-May-23 A	21-Jul-23 A			100%
P8-6010	Soft Excavation to 1st strut level	52	01-Sep-23 A	24-Oct-23 A			100%
P8-6020	Installation of strut S1	53	01-Sep-23 A	24-Oct-23 A			100%
P8-6030	Soft Excavation to 2nd strut level	42	01-Sep-23 A	11-Oct-23 A			100%
P8-6040	Installation of strut S2	44	01-Sep-23 A	13-Oct-23 A			100%
P8-6050	Soft Excavation to F.L.	39	01-Sep-23 A	09-Oct-23 A			100%
P8-6060	Bedding & Pipe Laying (Twins 1200 Concrete Pipe)	18	30-Nov-23 A	18-Dec-23 A			100%
P8-6070	Backfilling of drain to at grade level (Dismantle 1st level walling, struts, steel bracket) (Pouring concrete top slab)	36	30-Nov-23 A	29-Jan-24 A			100%
P8-6100	Construction of Manhole KT1.47A	17	30-Nov-23 A	06-Feb-24 A		2	100%
P8-6110	Backfilling to at grade level	24	22-Jan-24 A	21-Feb-24 A		2	100%
Construction and Diversion of Permanent Cycle Track and Footpath		311	15-Apr-24 A	27-May-25	260		91.77%
Phase 1 - KT1.40A to KT1.41A		70	15-Apr-24 A	02-Jul-24 A			100%
P8-6139	Demolition of Temporary Cycle Track and Footpath	19	15-Apr-24 A	16-May-24 A			100%
P8-6140	Construction of Permanent Cycle Track and Footpath from KT1.40A to KT1.41A	29	06-Jun-24 A	26-Jun-24 A			100%
P8-6141	Cycle Track Shifting from Temporary Cycle Track to Permanent Cycle Track	0		26-Jun-24 A			100%
P8-6160	Resumption of remaining footbridge works at Northern Footway Ramp / Staircase	0		02-Jul-24 A			100%
Phase 2 - KT1.41A to KT6.06A		183	02-Dec-24 A	27-May-25	260		86.02%
P8-6179	Demolition of Temporary Cycle Track and Footpath	29	02-Dec-24 A	25-Dec-24 A			100%
P8-6180	Construction of Permanent Cycle Track and Footpath from KT1.41A to KT6.06A	27	30-Dec-24 A	28-Jan-25 A			100%
P8-6190	Diversion from Temporary to Permanent Cycle Track	0	28-Jan-25 A				100%
P8-6220	Permanent Reinstatement works at Temporary Cycle Track and Footpath	45	03-Feb-25 A	27-May-25	260		43.21%
Construction of Temporary EVA for LVNC		27	15-Feb-24 A	22-Mar-24 A			100%
P8-6200	Temporary EVA construction	27	15-Feb-24 A	22-Mar-24 A			100%
Drainage Outfall constuction by Open Cut		406	19-Dec-22 A	27-Mar-24 A			100%
Outfall 5100A		314	19-Dec-22 A	14-Dec-23 A			100%
P8-OF3530	Removal of Grasscrete and concrete materials	2	19-Dec-22 A	20-Dec-22 A		0	100%
P8-OF3531	Excavation to formation level	1	21-Dec-22 A	21-Dec-22 A		0	100%
P8-OF3541	Laying of silt curtain and delivery of concrete block	1	22-Dec-22 A	22-Dec-22 A		0	100%
P8-OF3551	Pour Concrete Blinding	1	24-Dec-22 A	24-Dec-22 A		0	100%
P8-OF3553	Erect formwork for Vertical blinding for base slab shear key	1	29-Dec-22 A	29-Dec-22 A		0	100%
P8-OF3555	Pour Concrete shear key blinding	1	30-Dec-22 A	30-Dec-22 A		0	100%
P8-OF3557	Strip off formwork for shear key	1	05-Jan-23 A	05-Jan-23 A		0	100%
P8-OF3559	Erect formwork for Shear key	1	07-Jan-23 A	07-Jan-23 A		0	100%
P8-OF3561	Erect formwork for outfall base slab	1	09-Jan-23 A	09-Jan-23 A		0	100%
P8-OF3563	Erect formwork for outfall Wall (1st side)	9	09-Jan-23 A	18-Jan-23 A		0	100%
P8-OF3565	Rebar fixing for outfall base slab	8	10-Jan-23 A	18-Jan-23 A		0	100%
P8-OF3611	Outfall Baseslab concreting	1	19-Jan-23 A	19-Jan-23 A		0	100%
P8-OF3621	Dismantle Base slab Formwork	2	01-Feb-23 A	02-Feb-23 A		0	100%
P8-OF3623	Rebar fixing for outfall Wall	1	03-Feb-23 A	03-Feb-23 A		0	100%
P8-OF3631	Erect formwork for outfall Wall (2nd side)	5	04-Feb-23 A	09-Feb-23 A		0	100%
P8-OF3651	Outfall Wall concreting	4	10-Feb-23 A	14-Feb-23 A		0	100%
P8-OF3661	Dismantle Wall Formwork	3	15-Feb-23 A	17-Feb-23 A		0	100%
P8-OF3671	Reintatement by Rockfill	2	18-Feb-23 A	20-Feb-23 A		0	100%
P8-OF3731	Sheet Pile Installation from Outfall 5100A to SMH_KTCP5100A	20	21-Feb-23 A	20-Mar-23 A		0	100%
P8-OF3741	ELS of open trench from Outfall 5100A to SMH_KTCP5100A	15	22-Mar-23 A	11-Apr-23 A		0	100%
P8-OF3751	Drain Laying from Outfall 5100A to SMH_KTCP5100A	6	12-Apr-23 A	20-Apr-23 A		0	100%
P8-OF3756	Remove remining side sheet pile & rock fill	5	21-Apr-23 A	29-Apr-23 A		0	100%
P8-OF3761	Backfilling to at grade level	16	29-Apr-23 A	18-May-23 A		1	100%
Manhole 5100A		193	10-Nov-23 A	14-Dec-23 A			100%
P8-OF3767	Construction of Manhole SMH_KT 5100	18	10-Nov-23 A	28-Nov-23 A		1	100%
P8-OF3777	Backfilling to at grade level	16	28-Nov-23 A	14-Dec-23 A		1	100%
P8-OF3787	Report Completion of Drainage works	0		14-Dec-23 A		0	100%
Outfall 5101		286	19-Jan-23 A	19-May-23 A			100%
P8-OF3896	Removal of Grasscrete and concrete materials	2	19-Jan-23 A	20-Jan-23 A		0	100%
P8-OF3906	Excavation to formation level	1	01-Feb-23 A	01-Feb-23 A		0	100%
P8-OF3916	Laying of silt curtain and delivery of concrete block	1	02-Feb-23 A	02-Feb-23 A		0	100%
P8-OF3926	Pour Concrete Blinding	1	03-Feb-23 A	03-Feb-23 A		0	100%
P8-OF3936	Erect formwork for Vertical blinding for base slab shear key	1	04-Feb-23 A	04-Feb-23 A		0	100%
P8-OF3946	Pour Concrete shear key blinding	1	06-Feb-23 A	06-Feb-23 A		0	100%
P8-OF3956	Strip off formwork for shear key	1	07-Feb-23 A	07-Feb-23 A		0	100%
P8-OF3966	Erect formwork for Shear key	1	08-Feb-23 A	08-Feb-23 A		0	100%
P8-OF3976	Erect formwork for outfall base slab	1	09-Feb-23 A	09-Feb-23 A		0	100%
P8-OF3986	Erect formwork for outfall Wall (1st side)	9	10-Feb-23 A	20-Feb-23 A		0	100%
P8-OF3996	Rebar fixing for outfall base slab	8	21-Feb-23 A	01-Mar-23 A		0	100%
P8-OF4006	Outfall Baseslab concreting	1	02-Mar-23 A	02-Mar-23 A		0	100%
P8-OF4016	Dismantle Base slab Formwork	2	03-Mar-23 A	04-Mar-23 A		0	100%
P8-OF4026	Rebar fixing for outfall Wall	1	06-Mar-23 A	07-Mar-23 A		0	100%
P8-OF4036	Erect formwork for outfall Wall (2nd side)	5	08-Mar-23 A	13-Mar-23 A		0	100%
P8-OF4046	Outfall Wall concreting	4	14-Mar-23 A	17-Mar-23 A		0	100%
P8-OF4056	Dismantle Wall Formwork	3	20-Mar-23 A	22-Mar-23 A		0	100%
P8-OF4066	Sheet Pile Installation from Outfall 5101A to SMH_KT5101A	6	23-Mar-23 A	29-Mar-23 A		0	100%
P8-OF4076	ELS of open trench from Outfall 5101A to SMH_KT5101A	8	30-Mar-23 A	12-Apr-23 A		0	100%
P8-OF4086	Drain Laying from Outfall 5101A to SMH_KT5101A	6	13-Apr-23 A	19-Apr-23 A		0	100%
P8-OF4096	Remove remaining side sheet pile & rock fill	5	22-Apr-23 A	27-Apr-23 A		0	100%
P8-OF4106	Backfilling to at grade level	16	02-May-23 A	19-May-23 A		1	100%
P8-OF4116	Report Completion of Drainage works	0		19-May-23 A		0	100%
Sewer Installation at SMH_KT5101A to OF5101(50m) (Open Cut)		149	01-Sep-23 A	27-Mar-24 A			100%
P8-3010	Sheet Pile Installation	19	01-Sep-23 A	20-Sep-23 A		1	100%
P8-3020	Soft Excavation to 1st strut level	28	15-Sep-23 A	17-Oct-23 A		1	100%
P8-3025	Installation of strut S1	30	18-Sep-23 A	21-Oct-23 A		1	100%
P8-3030	Soft Excavation to 2nd strut level	30	26-Sep-23 A	31-Oct-23 A		1	100%
P8-3035	Installation of strut S2	32	12-Oct-23 A	15-Nov-23 A		1	100%
P8-3040	Soft Excavation to F.L ; (approx. 6.5m depth)	28	26-Oct-23 A	24-Nov-23 A		1	100%
P8-3060	Bedding and Pipe Laying (Twins DN700)	33	24-Nov-23 A	30-Dec-23 A		1	100%
Manhole 5101A		66	15-Jan-24 A	27-Mar-24 A			100%



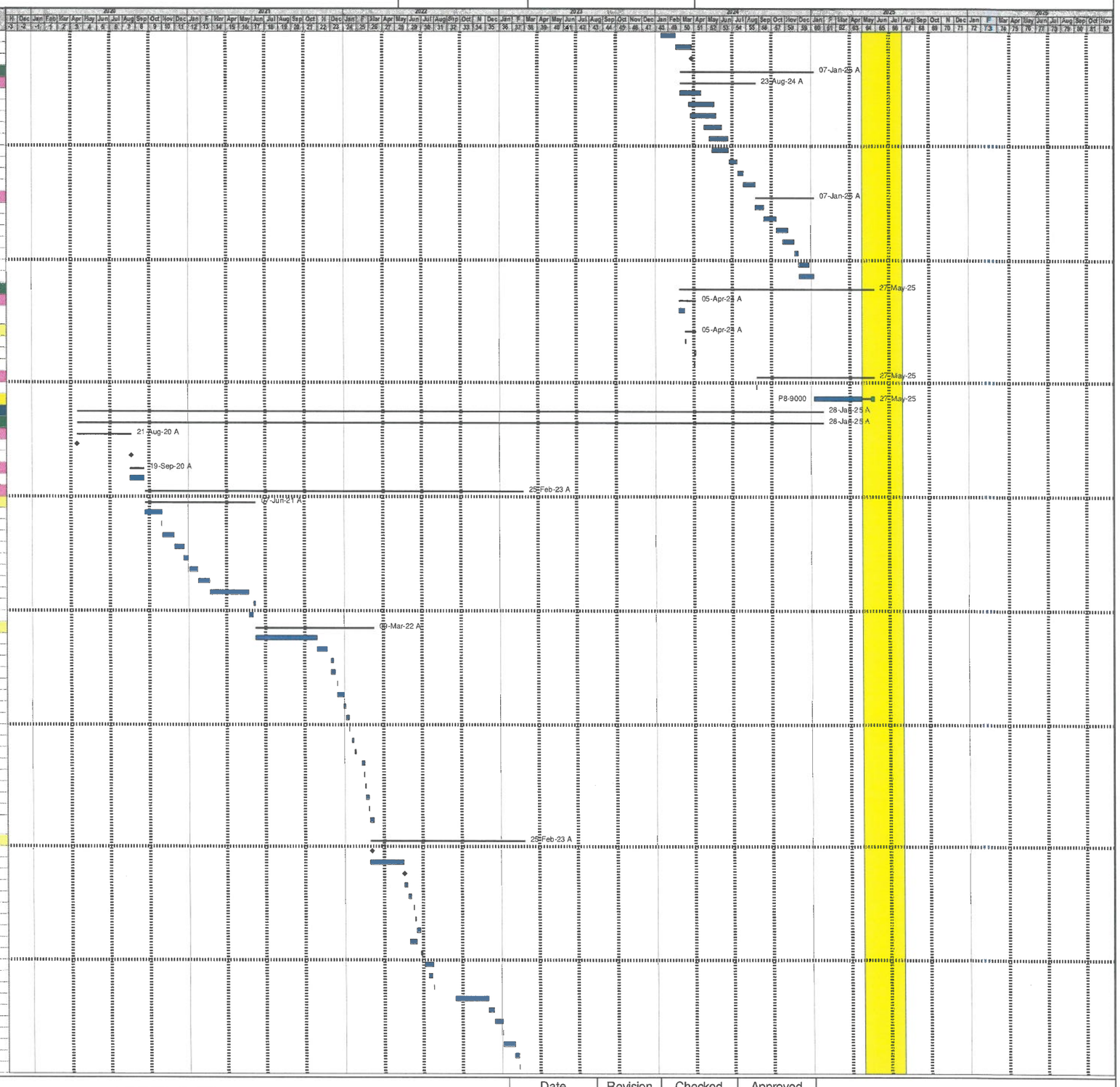
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P8-OF-3070	Construction of Manhole SMH_KT 5101	18	15-Jan-24 A	17-Feb-24 A		1	100%
P8-OF-3080	Backfilling to at grade level	16	19-Feb-24 A	27-Mar-24 A		1	100%
P8-OF-3090	Report Completion of Drainage works	0		27-Mar-24 A			100%
NS 250 PE Pipe Installation (From KT1.47A to KT6.06A) [118.36m]		283	29-Feb-24 A	07-Jan-25 A			100%
Sewer Pipeline FMH_KT1.47A to FMH_KT6.08A[85.271m]		207	29-Feb-24 A	23-Aug-24 A			100%
P8-6900	Sheet Pile Installation for open trench	44	29-Feb-24 A	19-Apr-24 A			100%
P8-7000	Soft Excavation to 1st strut level	51	21-Mar-24 A	20-May-24 A			100%
P8-7010	Installation of strut S1	52	25-Mar-24 A	24-May-24 A			100%
P8-7020	Soft Excavation to 2nd strut level	37	26-Apr-24 A	06-Jun-24 A			100%
P8-7030	Installation of strut S2	39	08-May-24 A	20-Jun-24 A			100%
P8-7040	Soft Excavation to F.L.	35	15-May-24 A	22-Jun-24 A			100%
P8-7050	Bedding and Pipe Laying (NS 250 PE Pipe)	18	24-Jun-24 A	12-Jul-24 A			100%
P8-7055	RC Works of KT6.08A	13	13-Jul-24 A	26-Jul-24 A			100%
P8-7060	Backfilling of drain to at grade level	27	27-Jul-24 A	23-Aug-24 A			100%
Sewer Pipeline FMH_KT6.06 to FMH_KT6.07A [29.794m] (near MTRC access entrance of EAP2)		81	24-Aug-24 A	07-Jan-25 A			100%
P4-6830	Sheet Pile Installation for open trench	19	24-Aug-24 A	12-Sep-24 A			100%
P4-6840	Soft Excavation to 1st strut level	24	13-Sep-24 A	12-Oct-24 A			100%
P4-6850	Installation of strut S1	27	12-Oct-24 A	09-Nov-24 A			100%
P4-6880	Soft Excavation to F.L.	26	28-Oct-24 A	23-Nov-24 A			100%
P4-6890	Bedding and Pipe Laying (NS 250 HDPE Pipe)	8	25-Nov-24 A	03-Dec-24 A			100%
P4-6900	RC Works of KT6.07A	21	04-Dec-24 A	27-Dec-24 A			100%
P4-6910	Backfilling of drain to at grade level	30	04-Dec-24 A	07-Jan-25 A			100%
Reinstatement		239	28-Feb-24 A	27-May-25	350		96.75%
Road Reinstatement for Permanent DSD Maintenance Access		34	28-Feb-24 A	05-Apr-24 A			100%
P8-5276	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	9	28-Feb-24 A	09-Mar-24 A			100%
CH380 - CH420		20	11-Mar-24 A	05-Apr-24 A			100%
P8-5277	Bay 26 - Erect Rebar & Formwork and Pouring concrete to slab	3	11-Mar-24 A	13-Mar-24 A			100%
P8-5287	Bay 27-28 - Erect Rebar & Formwork and Pouring concrete to slab	3	02-Apr-24 A	05-Apr-24 A			100%
P8-5307	Bay 29-30 - Erect Rebar & Formwork and Pouring concrete to slab	2	02-Apr-24 A	03-Apr-24 A			100%
Remaining Reinstatement Works		69	27-Aug-24 A	27-May-25	350		88.8%
P8-1-RECORD-01	NCE-127 Realignment of the K1 Kerb at Portion 8 dated 27 Aug 2024 (OUT-5658)	1	27-Aug-24 A	27-Aug-24 A			100%
P8-9000	Road formation, reinstatement of disturbed landscape area & Tree Planting (35n	20	08-Jan-25 A	27-May-25	260	18	61.11%
Portion 9 - Footbridge		1395	16-Apr-20 A	28-Jan-25 A			100%
Footbridge Construction		1395	16-Apr-20 A	28-Jan-25 A			100%
Site Possession		306	16-Apr-20 A	21-Aug-20 A			100%
P9-1000	Possession of site - Portion 9 (N)	0	16-Apr-20 A			0	100%
P9-1005	Possession of site - Portion 9 (S)	0	21-Aug-20 A				100%
Site Preparation		21	18-Aug-20 A	19-Sep-20 A			100%
P9-1010	Circulation & Approval of TTAs	21	18-Aug-20 A	19-Sep-20 A		3	100%
South River Embankment		978	21-Sep-20 A	25-Feb-23 A			100%
Piling works Existing Feature: 2SE-B/FR104 (South River Embankment)		248	21-Sep-20 A	07-Jun-21 A			100%
P9-1181	Site Setup, Setup TTA & Plant Mobilization	16	21-Sep-20 A	31-Oct-20 A		6	100%
P9-1190	Erection of temporary retaining wall (3m height; 63nos. concrete blocks)	3	30-Oct-20 A	30-Oct-20 A		0	100%
P9-1200	Site formation to existing ground level (+5.2mPD)	9	02-Nov-20 A	28-Nov-20 A		0	100%
P9-1210	Sheet pile (130nos.12m long ; 10nos./day/rig) (2rig)	6	30-Nov-20 A	22-Dec-20 A		0	100%
P9-1220	Pre-Drilling (3 nos.) (4days/nos/rig) (2 rigs)	7	21-Dec-20 A	31-Dec-20 A		0	100%
P9-1225	Footpath / Village raod widening & Setup for wheel washing Bay	4	05-Jan-21 A	23-Jan-21 A		0	100%
P9-1228	Setup for Piling Works	4	25-Jan-21 A	20-Feb-21 A		0	100%
P9-1230	Pre-bored H-pile (4 nos. Vertical H-pile & 8 nos. Raking H-Pile) (1 rig)	27	22-Feb-21 A	22-May-21 A		0	100%
P9-1235	Proof Drill	6	03-Jun-21 A	07-Jun-21 A		2	100%
P9-1245	Demobilization of pilling rig & site clearance	10	24-May-21 A	02-Jun-21 A		1	100%
Abutment FK2-04M		227	08-Jun-21 A	09-Mar-22 A			100%
P9-1250	ELS from +5.2 mPD to -0.7mPD (approx. 1000m3; 100m3/day)	42	08-Jun-21 A	28-Oct-21 A		10	100%
P9-1260	Pile cutting to Pile Cut-Off level (-0.09mPD) & Installation of Capping Plate	12	29-Oct-21 A	21-Nov-21 A		7	100%
P9-1270	Formwork and falsework for Pile Cap	5	30-Nov-21 A	06-Dec-21 A		1	100%
P9-1280	Rebar fixing for Pile Cap	9	30-Nov-21 A	09-Dec-21 A		2	100%
P9-1290	Concreting the Pile Cap (approx. 200m3)	1	15-Dec-21 A	15-Dec-21 A		0	100%
P9-1293	Curing & Remove Formwork for Pile Cap	12	16-Dec-21 A	29-Dec-21 A		2	100%
P9-1295	Rebar fixing for Abutment wall for 1 st pour	3	30-Dec-21 A	03-Jan-22 A		1	100%
P9-1300	Erection of formwork and falsework for Abutment Wall for 1st pour	5	04-Jan-22 A	11-Jan-22 A		1	100%
P9-1310	Concreting the Abutment wall (1st pour)	1	12-Jan-22 A	12-Jan-22 A		2	100%
P9-1311	Erection of falsework and working platform for Abutment Wall for 2nd pour	6	18-Jan-22 A	21-Jan-22 A		0	100%
P9-1313	Rebar fixing for Abutment wall for 2nd pour	6	25-Jan-22 A	26-Jan-22 A		1	100%
P9-1314.1	Bursting Reinforcement fixing	5	10-Feb-22 A	15-Feb-22 A		2	100%
P9-1314.5	Cast-in UPVC Pipe delivery	1	15-Feb-22 A	15-Feb-22 A		2	100%
P9-1314.7	Cast-in UPVC Pipe installation	2	17-Feb-22 A	18-Feb-22 A		2	100%
P9-1314.9	Formwork Erection of abutment wall	4	19-Feb-22 A	25-Feb-22 A		2	100%
P9-1315	Concreting the Abutment wall (2nd pour)	1	26-Feb-22 A	26-Feb-22 A		2	100%
P9-1320	Curing, Remove Formwork for Abutment wall & modify Falsework for bridge deck construction	10	28-Feb-22 A	09-Mar-22 A		0	100%
Superstructure		516	28-Feb-22 A	25-Feb-23 A			100%
P9-1634	Original date of delivery of pier formwork	0	04-Mar-22 A			3	100%
P9-1636	Receipt from manufacturer's notification for delay of delivery due to Covid-19	67	28-Feb-22 A	18-May-22 A		3	100%
P9-1637	Delivery of pier mould (South Portion)	0	19-May-22 A			3	100%
P9-1639.01	Modification of Pier mould	7	19-May-22 A	26-May-22 A		3	100%
P9-1639.03	Modification of Pier mould	6	28-May-22 A	04-Jun-22 A		3	100%
P9-1639.05	Modification of Pier mould	1	10-Jun-22 A	10-Jun-22 A		3	100%
P9-1639.07	Modification of Pier mould	2	13-Jun-22 A	14-Jun-22 A		3	100%
P9-1639.09	Modification of Pier mould	9	16-Jun-22 A	25-Jun-22 A		3	100%
P9-1639.13	Modification of Working Platform for Pier construction	19	31-May-22 A	16-Jun-22 A		3	100%
P9-1640	Falsework & formwork erection of Pier	3	27-Jun-22 A	29-Jun-22 A		3	100%
P9-1640.2	Cont; Falsework & formwork erection of Pier	18	05-Jul-22 A	25-Jul-22 A		3	100%
P9-1650	Rebar Fixing of Pier	8	14-Jul-22 A	22-Jul-22 A		2	100%
P9-1660	Concreting the Pier	1	26-Jul-22 A	26-Jul-22 A		0	100%
P9-1664	Erection of Falsework and Soffit Formwork for Bridge Deck	18	15-Sep-22 A	01-Dec-22 A		5	100%
P9-1670	Formwork of Bridge Deck (1st Pour)	12	02-Dec-22 A	15-Dec-22 A		2	100%
P9-1680	Rebar Fixing for Bridge Deck (1st Pour)	14	16-Dec-22 A	03-Jan-23 A		2	100%
P9-1690	Concreting of Bridge Deck (1st Pour)	1	04-Jan-23 A	04-Jan-23 A		0	100%
P9-1770	Formwork of Bridge Deck (2nd Pour)	16	05-Jan-23 A	31-Jan-23 A		2	100%
P9-1780	Rebar Fixing for Bridge Deck (2nd Pour)	9	01-Feb-23 A	10-Feb-23 A		2	100%
P9-1790	Concreting of Bridge Deck (2nd Pour)	1	11-Feb-23 A	11-Feb-23 A		0	100%



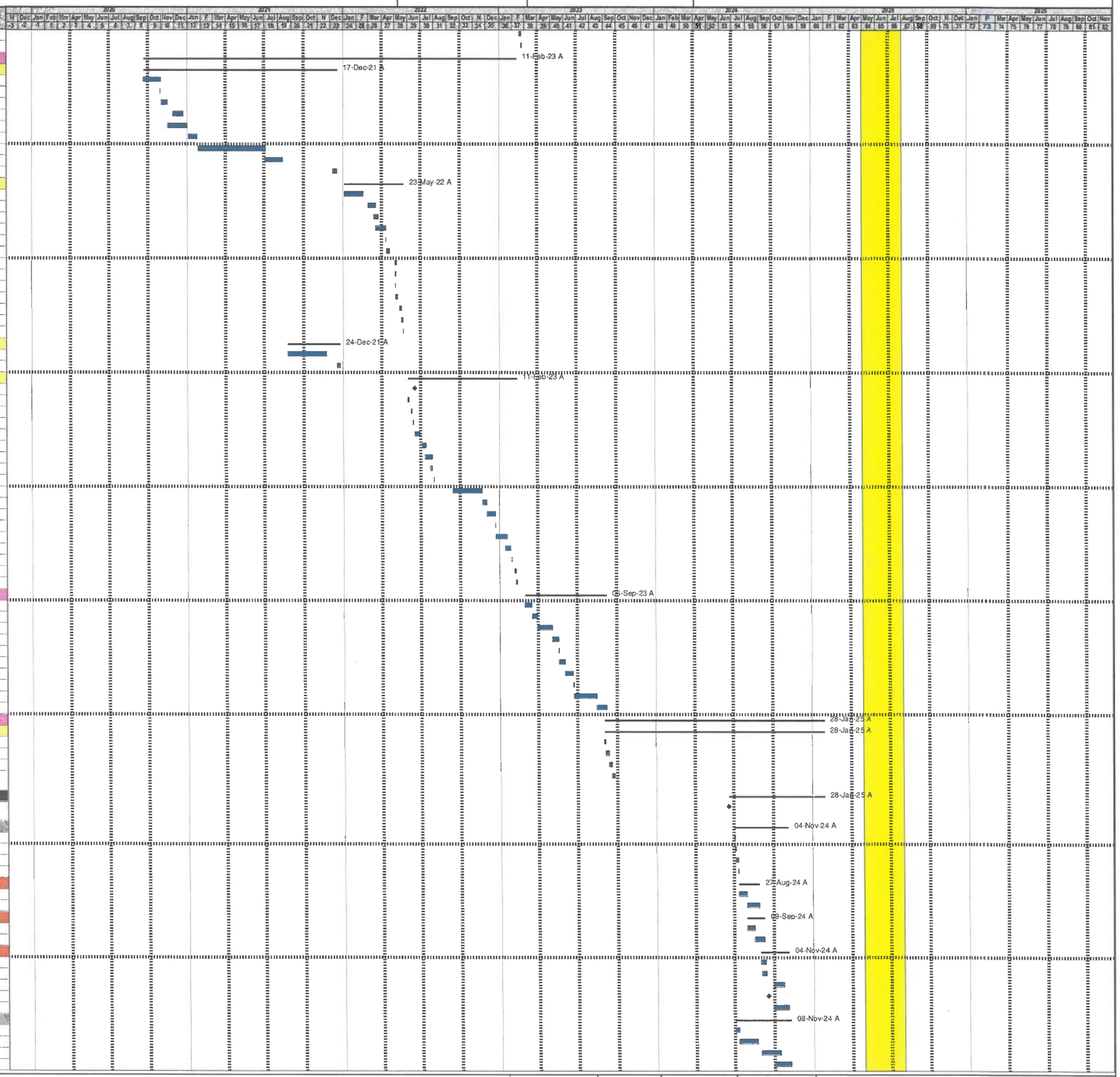
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P9-1850	Dismantling of falsework and props	3	20-Feb-23 A	23-Feb-23 A	0		100%
P9-1860	Dismantling of formwork	3	23-Feb-23 A	25-Feb-23 A	0		100%
North River Embankment		984	21-Sep-20 A	11-Feb-23 A			100%
Piling works in Existing Feature: 2SE-B/FR107 (North River Embankment)		397	21-Sep-20 A	17-Dec-21 A			100%
P9-1020	Site Setup, Setup TTA & Plant Mobilization	16	21-Sep-20 A	31-Oct-20 A	6		100%
P9-1050	Erection of temporary retaining wall (3m height; 63nos. concrete blocks)	3	30-Oct-20 A	30-Oct-20 A	0		100%
P9-1060	Site formation to existing ground level (+5.2mPD)	9	02-Nov-20 A	16-Nov-20 A	0		100%
P9-1070	Sheet pile (130nos.12m long ; 10nos./day/rig) (2rig)	5	30-Nov-20 A	24-Dec-20 A	0		100%
P9-1080	Pre-Drilling (6 nos.) (4days/nos/rig) (3 rigs)	7	17-Nov-20 A	31-Dec-20 A	0		100%
P9-1085	Site Setup for Piling works (Incl. assembly of crawler crane)	16	05-Jan-21 A	25-Jan-21 A	0		100%
P9-1090	Pre-bored H-pile (4 nos. Vertical H-pile & 8 nos. Raking H-Pile) (1 rig)	46	26-Jan-21 A	02-Jul-21 A	0		100%
P9-1093	Demobilization & Site Clearance & Site Formation	30	03-Jul-21 A	13-Aug-21 A	1		100%
P9-1095	Proof Drill	4	09-Dec-21 A	17-Dec-21 A	1		100%
Abutment FK2-01M		120	05-Jan-22 A	23-May-22 A			100%
P9-1110	ELS from +5.2 mPD to -0.7mPD (approx. 1000m3; 100m3/day)	29	05-Jan-22 A	17-Feb-22 A	1		100%
P9-1120	Pile cutting to Pile Cut-Off level & Install Capping Plate (-0.09mPD)	16	01-Mar-22 A	18-Mar-22 A	0		100%
P9-1130	Formwork and falsework for Pile Cap	10	15-Mar-22 A	25-Mar-22 A	1		100%
P9-1140	Rebar fixing for Pile Cap	10	19-Mar-22 A	11-Apr-22 A	1		100%
P9-1150	Concreting the Pile Cap (approx. 200m3)	1	12-Apr-22 A	12-Apr-22 A	0		100%
P9-1155	Curing & Remove Formwork for Pile Cap	6	13-Apr-22 A	19-Apr-22 A	3		100%
P9-1160	Rebar fixing for Abutment wall for 1st pour	5	03-May-22 A	07-May-22 A	0		100%
P9-1170	Formwork and falsework for Abutment Wall for 1st pour	4	03-May-22 A	06-May-22 A	1		100%
P9-1180	Concreting the Abutment wall (1st pour)	1	04-May-22 A	04-May-22 A	0		100%
P9-1185	Curing & Remove Formwork	5	05-May-22 A	10-May-22 A	0		100%
P9-1189	Rebar fixing for Abutment wall for 2nd pour	3	14-May-22 A	17-May-22 A	0		100%
P9-1193	Formwork and falsework for Abutment Wall for 2nd pour	4	18-May-22 A	21-May-22 A	1		100%
P9-1197	Concreting the Abutment wall (2nd pour)	1	23-May-22 A	23-May-22 A	0		100%
Piling Works for Footway Ramp		133	25-Aug-21 A	24-Dec-21 A			100%
P9-1440	Piling works for stairway (12 nos. at northern bridge, 1 pile/week/rig, 1 rig)	64	25-Aug-21 A	22-Nov-21 A	4		100%
P9-1450	Pile Load Test (including set up)	6	18-Dec-21 A	24-Dec-21 A	0		100%
Superstructure		419	01-Jun-22 A	11-Feb-23 A			100%
P9-1597	Delivery of pier formwork (North Portion)	0	17-Jun-22 A		3		100%
P9-1598	Erection of Working Platform for Pier construction	3	01-Jun-22 A	04-Jun-22 A	3		100%
P9-1598.03	Erection of Working Platform for Pier construction	1	10-Jun-22 A	10-Jun-22 A	3		100%
P9-1598.05	Erection of Working Platform for Pier construction	2	13-Jun-22 A	14-Jun-22 A	3		100%
P9-1598.07	Modification of Pier mould	11	17-Jun-22 A	29-Jun-22 A	3		100%
P9-1598.13	Modification of Pier mould	9	05-Jul-22 A	14-Jul-22 A	3		100%
P9-1600	Falsework & formwork erection of Pier	17	11-Jul-22 A	29-Jul-22 A	3		100%
P9-1610	Rebar Fixing of Pier	5	25-Jul-22 A	29-Jul-22 A	2		100%
P9-1620	Concreting the Pier	1	02-Aug-22 A	02-Aug-22 A	0		100%
P9-1624	Erection of Falsework and Soffit Formwork for Bridge Deck	18	15-Sep-22 A	22-Nov-22 A	5		100%
P9-1625	Formwork of Bridge Deck (1st Pour)	10	23-Nov-22 A	02-Dec-22 A	2		100%
P9-1635	Rebar Fixing for Bridge Deck (1st Pour)	17	03-Dec-22 A	22-Dec-22 A	2		100%
P9-1645	Concreting of Bridge Deck (1st Pour)	1	23-Dec-22 A	23-Dec-22 A	0		100%
P9-1800	Formwork of Bridge Deck (2nd Pour)	16	24-Dec-22 A	19-Jan-23 A	2		100%
P9-1810	Rebar Fixing for Bridge Deck (2nd Pour)	7	14-Jan-23 A	28-Jan-23 A	2		100%
P9-1820	Concreting of Bridge Deck (2nd Pour)	1	30-Jan-23 A	30-Jan-23 A	0		100%
P9-1830	Dismantling of falsework and props	3	06-Feb-23 A	08-Feb-23 A	0		100%
P9-1840	Dismantling of formwork	3	09-Feb-23 A	11-Feb-23 A	0		100%
Middle Bridge Deck		193	01-Mar-23 A	06-Sep-23 A			100%
P9-1590	Erection of middle truss for Middle Deck construction	16	01-Mar-23 A	17-Mar-23 A	5		100%
P9-1710	Soffit Formwork Erection	9	18-Mar-23 A	31-Mar-23 A	2		100%
P9-1720	Rebar Fixing for Middle Deck (1st Pour)	16	01-Apr-23 A	03-May-23 A	2		100%
P9-1730	Internal Formwork Erection for Middle Deck (1st Pour)	7	04-May-23 A	18-May-23 A	3		100%
P9-1745	Concreting for Middle Deck (1st Pour)	1	19-May-23 A	19-May-23 A	0		100%
P9-1746	Internal Formwork Erection for Middle Deck (2nd Pour)	16	20-May-23 A	02-Jun-23 A	2		100%
P9-1747	Rebar Fixing for Middle Deck (2nd Pour)	7	02-Jun-23 A	21-Jun-23 A	3		100%
P9-1748	Concreting for Middle Deck (2nd Pour)	1	22-Jun-23 A	23-Jun-23 A	0		100%
P9-1750	Curing & Remove all temporary works	24	24-Jun-23 A	15-Aug-23 A	3		100%
P9-1760	Backfilling the cofferdam & Remove sheet pile	14	15-Aug-23 A	06-Sep-23 A	2		100%
Remaining Footbridge Works		437	01-Sep-23 A	28-Jan-25 A			100%
Northern Footway Ramp / Staircase		437	01-Sep-23 A	28-Jan-25 A			100%
P9-NR1000	Excavate to formation level +5.2mPD	4	01-Sep-23 A	04-Sep-23 A	5		100%
P9-NR1010	RC Works for Lower Portion of ramp foundation	8	04-Sep-23 A	12-Sep-23 A	5		100%
P9-NR1020	Formwork dismantle and backfill to finishing ground level	5	12-Sep-23 A	18-Sep-23 A	5		100%
P9-NR1030	RC Works for Upper portion of ramp wall, Staircase Bay 3 and parapet and Lower ground level U Channel	7	18-Sep-23 A	25-Sep-23 A	5		100%
Works Resumption after Cycle Track & Footpath Diversion (Temporary to Permanent) at Portion 8		165	19-Jun-24 A	28-Jan-25 A			100%
P9-NR1035	Works Resumption after Construction & Shifting of Cycle Track and Footpath from Temporary to Permanent (Portion 8)	0		19-Jun-24 A			100%
North Footbridge Ramp		125	02-Jul-24 A	04-Nov-24 A			100%
P9-NR1045	Trimming of Slope	2	02-Jul-24 A	03-Jul-24 A			100%
P9-NR1055	Excavate to Pile	2	03-Jul-24 A	05-Jul-24 A			100%
P9-NR1065	Welding of Capping Plate	5	05-Jul-24 A	10-Jul-24 A			100%
P9-NR1075	Blinding	2	11-Jul-24 A	12-Jul-24 A			100%
Bay 1 Ramp		44	12-Jul-24 A	27-Aug-24 A			100%
P9-NR1085	Base Slab Construction	12	12-Jul-24 A	31-Jul-24 A			100%
P9-NR1095	Wall Construction	27	31-Jul-24 A	27-Aug-24 A			100%
Bay 2 Ramp		45	31-Jul-24 A	09-Sep-24 A			100%
P9-NR1105	Base Slab Construction	12	31-Jul-24 A	17-Aug-24 A			100%
P9-NR1115	Wall Construction	18	17-Aug-24 A	09-Sep-24 A			100%
Finishing Works		32	30-Aug-24 A	04-Nov-24 A			100%
P9-NR1125	Finishing of whole Structural works	12	30-Aug-24 A	11-Sep-24 A			100%
P9-NR1135	Slope and Grasscrete works	12	02-Sep-24 A	13-Sep-24 A			100%
P9-NR1145	Backfilling (SRT), Pipe Laying, Drawpit, On grade slab	22	30-Sep-24 A	24-Oct-24 A			100%
P9-NR1155	MOS (ABWF)	0		16-Sep-24 A			100%
P9-NR1165	ABWF works (Floor Tiles, Wooden Railings) & BS works	32	30-Sep-24 A	04-Nov-24 A			100%
North Footbridge Staircase		125	02-Jul-24 A	08-Nov-24 A			100%
P9-NR1175	Expose stair RC	10	02-Jul-24 A	11-Jul-24 A			100%
P9-NR1185	Slope and Grasscrete works	28	11-Jul-24 A	22-Aug-24 A			100%
P9-NR1195	ABWF & BS works of stair	39	31-Aug-24 A	15-Oct-24 A			100%
P9-NR1205	On grade slab, Wall and Railing works	41	30-Sep-24 A	08-Nov-24 A			100%



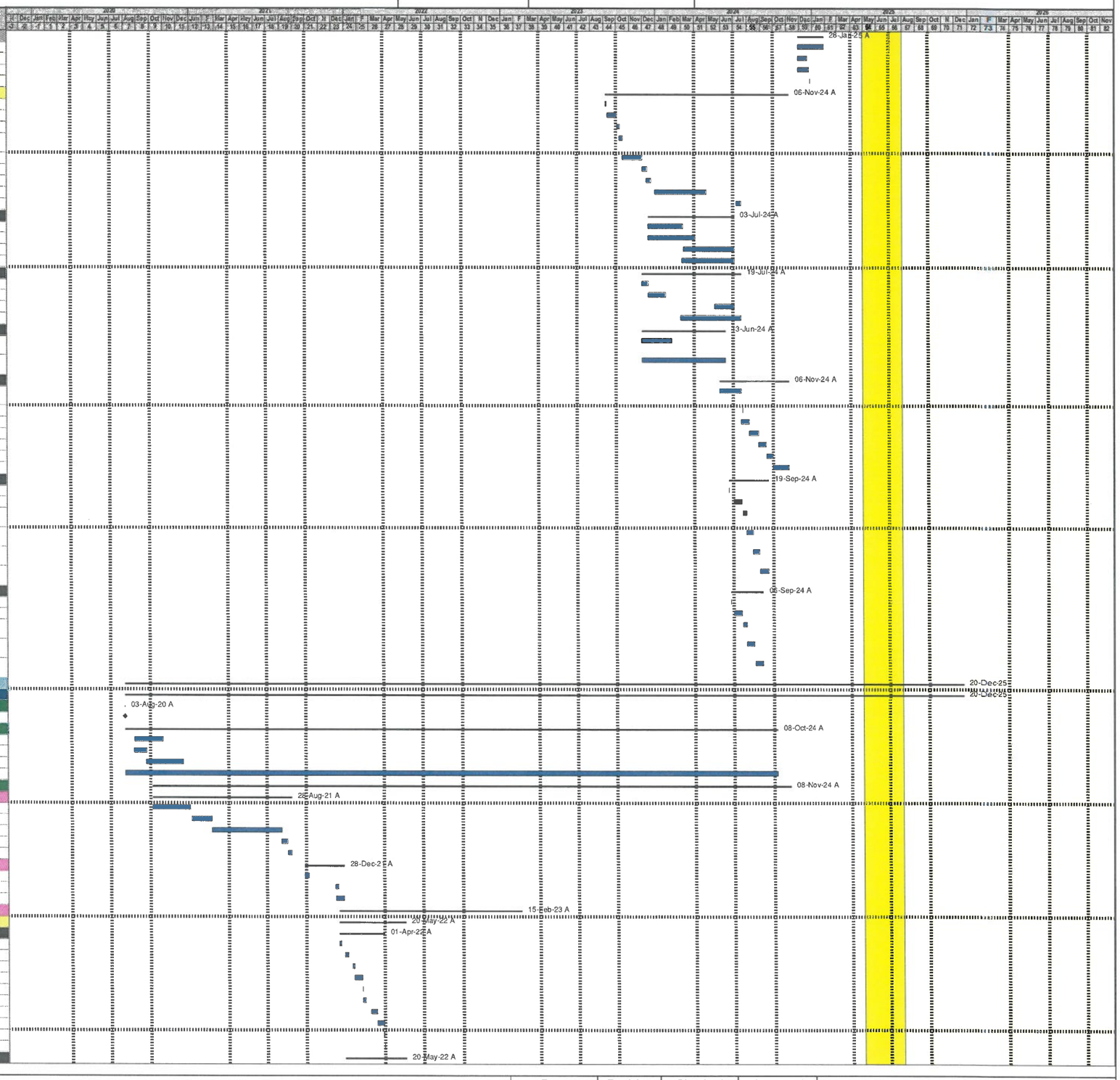
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
North Footbridge Reinstatement		24	30-Nov-24 A	28-Jan-25 A			100%
P9-NFR-001	Gabion Wall Finishing	22	30-Nov-24 A	28-Jan-25 A			100%
P9-NFR-005	150 U-channel Construction	20	30-Nov-24 A	20-Dec-24 A			100%
P9-NFR-011	Grasscrete Construction at Slope	23	30-Nov-24 A	24-Dec-24 A			100%
P9-NFR-031	Footbridge Handover inspection with Highways Department & AFCD	1	27-Dec-24 A	27-Dec-24 A			100%
Southern Footway Ramp / Staircase		385	06-Sep-23 A	06-Nov-24 A			100%
P9-SR1000	Excavate to formation level +5.2mPD	4	06-Sep-23 A	09-Sep-23 A		5	100%
P9-SR1010	RC Works for Lower Portion of ramp foundation	8	11-Sep-23 A	03-Oct-23 A		5	100%
P9-SR1020	Formwork dismantle and backfill to finishing ground level	5	04-Oct-23 A	09-Oct-23 A		5	100%
P9-SR1030	RC Works for Upper portion of ramp wall, staircase and parapet and Lower ground level U Channel	7	09-Oct-23 A	16-Oct-23 A		5	100%
P9-SR1040	Placing drainage materials and Compacted Fill to the void of ramp	6	16-Oct-23 A	02-Dec-23 A		5	100%
P9-SR1050	Construction of Upper level U Channel	4	02-Dec-23 A	12-Dec-23 A		5	100%
P9-SR1060	Laying concrete pavement layer and finishing layer	6	12-Dec-23 A	22-Dec-23 A		5	100%
P9-SR1070	Installation of steel Railing	6	01-Jan-24 A	30-Apr-24 A		5	100%
P9-SR1080	Installation of Gabion Wall (commenced 8-Jul-2024)	4	08-Jul-24 A	18-Jul-24 A		5	100%
ABWF Works		90	15-Dec-23 A	03-Jul-24 A			100%
P9-1613	Laying of footbridge deck pavings	18	15-Dec-23 A	06-Mar-24 A		2	100%
P9-1614	Installation of balustrade, floor tile and drainage cover	14	15-Dec-23 A	03-Apr-24 A			100%
P9-1621	Metal Parapet and Handrail Installation	18	07-Mar-24 A	03-Jul-24 A		2	100%
P9-1631	Laying of staircase finishes	18	04-Mar-24 A	03-Jul-24 A		2	100%
BS Works		161	01-Dec-23 A	19-Jul-24 A			100%
P9-1595	Bridge Pillar Box Installation	13	01-Dec-23 A	15-Dec-23 A		3	100%
P9-1601	Bridge Cable Laying for Lamp Post	13	15-Dec-23 A	25-Jan-24 A		3	100%
P9-1602	Bridge Lamp Post Installation (8 conventional, 2 Smart Ready)	13	18-May-24 A	02-Jul-24 A		3	100%
P9-1603	South Bridge Drainage works	53	01-Mar-24 A	19-Jul-24 A		2	100%
Slope Reinstatement		40	01-Dec-23 A	13-Jun-24 A			100%
P9-1100	Slope reinstatement works along Sheung Yue River under abutment of FK2 Footbridge (North)	27	01-Dec-23 A	08-Feb-24 A			100%
P9-1101	Slope reinstatement works along Sheung Yue River under abutment of FK2 Footbridge (South)	40	01-Dec-23 A	13-Jun-24 A			100%
Landscape Works - PMI No. 216/219 Revised Landscaping Works and Additional Planting request by		147	31-May-24 A	06-Nov-24 A			100%
P9-1599	PMI-216 Revised Landscaping and Planting works along Southern Footbridge footpath	25	31-May-24 A	19-Jul-24 A			100%
P9-1609	PMI-219, CE-254 issued on 11 July 2024 (IN-06443) (Received on 23 July 2024)	1	23-Jul-24 A	23-Jul-24 A			100%
P9-1615	Formation of Slope profile by rock fill	12	19-Jul-24 A	06-Aug-24 A		2	100%
P9-1617	Placing soil erosion control system (Incl. control mats, geotextile and soil fill)	18	07-Aug-24 A	27-Aug-24 A		2	100%
P9-1619	Paving block laying to finished floor level	12	28-Aug-24 A	14-Sep-24 A		2	100%
P9-1622	Soil mix backfilling between C2 and C3	12	16-Sep-24 A	30-Sep-24 A			100%
P9-1623	Hydroseeding and tree planting works (4nos)	34	30-Sep-24 A	06-Nov-24 A		2	100%
PMI No. 240 - Additional Civil Provision Works, LED Lighting, Bollards, Access Gate & Bearing Acces		84	21-Jun-24 A	19-Sep-24 A			100%
P9-PMI205-01	PMI-205	CE-240 issued on 11 June 2024, received on 21 June 2024	1	21-Jun-24 A	21-Jun-24 A			100%
P9-PMI205-11	Obtain Quotation Acceptance from PM (Time & Cost)	19	02-Jul-24 A	20-Jul-24 A		2	100%
P9-PMI205-21	Installation of LED lights along south ramp of Footbridge FK2 [ND/2019/02/R10/130/0098B]	9	23-Jul-24 A	31-Jul-24 A		3	100%
P9-PMI205-31	Replacement of original pole and chain with removable bollards at entrances of access paths [ND/2019/02/R10/130/0098B]	13	31-Jul-24 A	14-Aug-24 A		3	100%
P9-PMI205-41	Construction of entrance gates at DSD Maintenance Access and associated paving works [0098B, 0112A, 0231A]	13	15-Aug-24 A	29-Aug-24 A		3	100%
P9-PMI205-51	Construction of bearing maintenance accesses at North & South Abutments (4 nos. man access gate | Type 2 railing) [0603]	13	31-Aug-24 A	19-Sep-24 A		3	100%
PMI No. 206 - Revised Construction Details for Drainage and Roadworks at Southern Footbridge FK:		77	25-Jun-24 A	06-Sep-24 A			100%
P9-PMI206-01	PMI No. 206 - CE No. 251 received on 25 June 2024 (IN-06317)	1	25-Jun-24 A	25-Jun-24 A			100%
P9-PMI206-11	Obtain Quotation Acceptance from PM (Time & Cost)	19	02-Jul-24 A	20-Jul-24 A		2	100%
P9-PMI206-21	Construction of revised details of metal wire railing with footing along the footpath connecting LVN Park & FK2 [0112A]	9	23-Jul-24 A	31-Jul-24 A		3	100%
P9-PMI206-31	Construction of revised drainage system including surface channels and catch pits with matching covers [554A, 555, 556]	13	31-Jul-24 A	17-Aug-24 A		3	100%
P9-PMI206-41	Construction of revised layout of kerb along the access road [Sketches R10/130/0098B, R10/130/0231A]	13	20-Aug-24 A	06-Sep-24 A		3	100%
Works in Section 4		1777	03-Aug-20 A	20-Dec-25	157		87.74%
Portion 10 - Visitor Centre		1777	03-Aug-20 A	20-Dec-25	157		87.74%
Site Possession		0	03-Aug-20 A	03-Aug-20 A			0%
P10-1000	Possession of site - Portion 10	0	03-Aug-20 A			0	100%
Pre-construction works		1545	03-Aug-20 A	08-Oct-24 A			100%
P10-1010	Temporary haul road	27	26-Aug-20 A	30-Oct-20 A		0	100%
P10-1020	Environmental GI & Submission of Lab report (EGI-7B-01)	18	25-Aug-20 A	22-Sep-20 A		2	100%
P10-1030	Borehole (1nos.), submission & approval of GI Report	59	22-Sep-20 A	15-Dec-20 A		2	100%
P10-1040	Tree Protection and Preservation	1545	03-Aug-20 A	08-Oct-24 A		4	100%
Visitor Centre		1285	06-Oct-20 A	08-Nov-24 A			100%
Foundation		243	06-Oct-20 A	28-Aug-21 A			100%
P10-2000	Pre-Drilling (~10nos.)	18	06-Oct-20 A	31-Dec-20 A		2	100%
P10-2005	Tree Removal & Site Setup	30	05-Jan-21 A	20-Feb-21 A			100%
P10-2010	Install H-pile (59 nos.; 1 pile / week/rig, 2 rigs)	164	20-Feb-21 A	03-Aug-21 A		20	100%
P10-2020	Pile Load Test	19	04-Aug-21 A	17-Aug-21 A		2	100%
P10-2070	Proof Drilling	9	18-Aug-21 A	28-Aug-21 A			100%
Excavation		83	28-Sep-21 A	28-Dec-21 A			100%
P10-2030	Excavation and Placement of Concrete Block along the ELS boundary	9	28-Sep-21 A	06-Oct-21 A		2	100%
P10-2040	Sheetpile Installation (~85m; approx. 425nos;)	6	08-Dec-21 A	15-Dec-21 A		1	100%
P10-2050	Soil Excavation to F.L. for low level Pile Cap (~3840cu.m)	27	10-Dec-21 A	28-Dec-21 A		3	100%
Substructure		369	17-Dec-21 A	15-Feb-23 A			100%
Low Level Pile Cap and Basement Slab		124	17-Dec-21 A	20-May-22 A			100%
Bay 1		108	17-Dec-21 A	01-Apr-22 A			100%
P10-2060	Grout Breaking of Socket H Piles (23nos)	6	17-Dec-21 A	22-Dec-21 A		2	100%
P10-2060-1	Low Level Pile Head treatment and Capping Plate Installation	6	30-Dec-21 A	07-Jan-22 A		2	100%
P10-2110.11	Backfill with Grade 200 Rockfill	5	17-Jan-22 A	21-Jan-22 A		1	100%
P10-2110.13	Erection of formwork for Vertical Blinding	13	22-Jan-22 A	08-Feb-22 A		1	100%
P10-2110.23	Concreting of Vertical Blinding	1	09-Feb-22 A	09-Feb-22 A		1	100%
P10-2110.24	Patching and remedial works for concrete blinding before waterproofing laying	6	10-Feb-22 A	16-Feb-22 A		1	100%
P10-2110.32	Laying of Waterproofing Membrane and testing	12	28-Feb-22 A	14-Mar-22 A		1	100%
P10-2110.33	Rebar fixing of Pile Cap and Slab	14	15-Mar-22 A	30-Mar-22 A		1	100%
P10-2110.43	Base Slab Shutters	3	29-Mar-22 A	31-Mar-22 A		1	100%
P10-2110.53	Base Slab and Pile Cap Concreting (1st Bay)	1	01-Apr-22 A	01-Apr-22 A		1	100%
Bay 2 (Excl. Sump Pump)		124	30-Dec-21 A	20-May-22 A			100%



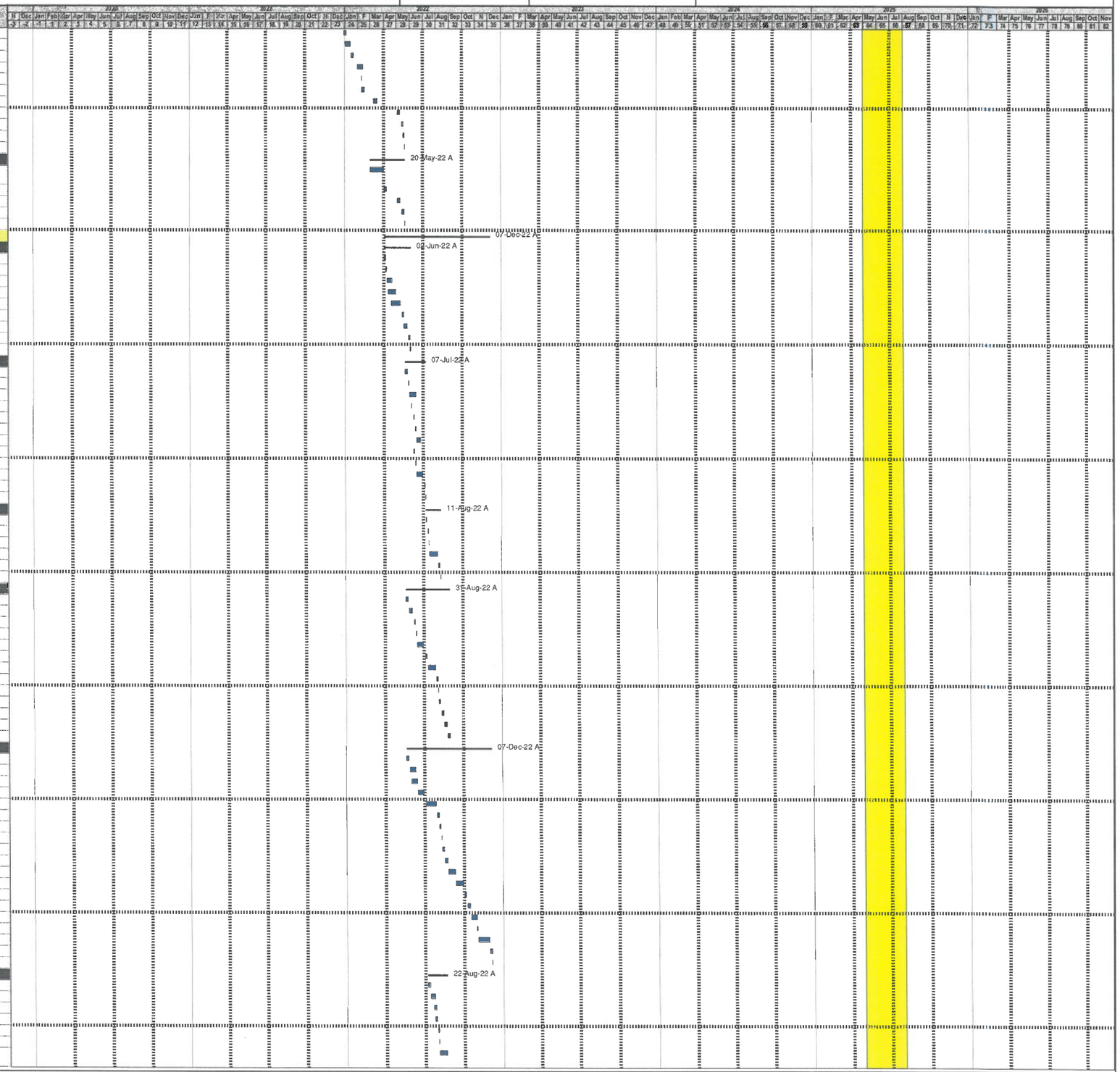
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRS	Duration % Complete
P10-2110.043	Grout Breaking of Socket H Piles (19nos)	3	30-Dec-21 A	04-Jan-22 A		2	100%
P10-2110.053	Low Level Pile Head treatment and Capping Plate Installation	12	03-Jan-22 A	15-Jan-22 A		2	100%
P10-2110.063	Backfill with Grade 200 Rockfill	4	17-Jan-22 A	21-Jan-22 A		1	100%
P10-2110.073	Erection of formwork for Vertical Blinding	8	31-Jan-22 A	11-Feb-22 A		1	100%
P10-2110.083	Concreting of Vertical Blinding	1	09-Feb-22 A	09-Feb-22 A		1	100%
P10-2110.084	Patching and remedial works for concrete blinding before waterproofing laying	6	10-Feb-22 A	16-Feb-22 A		1	100%
P10-2110.093	Laying of Waterproofing Membrane and testing (Excl. sump pump location)	8	09-Mar-22 A	17-Mar-22 A		1	100%
P10-2110.103	Rebar fixing of Pile Cap and Slab	7	03-May-22 A	10-May-22 A		1	100%
P10-2110.109	Rebar fixing of Pile Cap and Slab	2	14-May-22 A	16-May-22 A		1	100%
P10-2110.113	Base Slab Shutters	3	17-May-22 A	19-May-22 A		1	100%
P10-2110.123	Base Slab and Pile Cap Concreting (2nd Bay)	1	20-May-22 A	20-May-22 A		1	100%
Bay 3 (Incl. Sump Pump)		72	01-Mar-22 A	20-May-22 A			100%
P10-2110.511	Patching and remedial works for concrete blinding before waterproofing laying of sump pump location	30	01-Mar-22 A	01-Apr-22 A		1	100%
P10-2110.513	Laying of Waterproofing Membrane and testing of sump pump location	5	02-Apr-22 A	07-Apr-22 A		1	100%
P10-2110.543	Rebar fixing of Pile Cap and Slab	7	03-May-22 A	10-May-22 A		1	100%
P10-2110.553	Base Slab Shutters	5	14-May-22 A	19-May-22 A		1	100%
P10-2110.563	Base Slab and Pile Cap Concreting (3rd Bay)	1	20-May-22 A	20-May-22 A		1	100%
Basement Walls & Columns		218	02-Apr-22 A	07-Dec-22 A			100%
Basement Retaining Wall Bay 1		44	02-Apr-22 A	02-Jun-22 A			100%
P10-2120.19	Dismantle formwork of Basement Slab	4	02-Apr-22 A	06-Apr-22 A		2	100%
P10-2120.21	Dismantle of Corner strut at +3.5mPD	2	07-Apr-22 A	08-Apr-22 A		2	100%
P10-2120.31	Basement wall (1st side) Formwork to +7.6mPD	7	09-Apr-22 A	20-Apr-22 A		2	100%
P10-2120.35	Basement wall Falsework and working platform to +7.6mPD	16	12-Apr-22 A	29-Apr-22 A		2	100%
P10-2120.41	Basement wall Rebar Fixing to +7.6mPD	22	18-Apr-22 A	10-May-22 A		2	100%
P10-2120.47	Basement wall Rebar Fixing to +7.6mPD	3	14-May-22 A	17-May-22 A		2	100%
P10-2120.51	Basement wall (2nd side) Formwork to +7.6mPD	8	18-May-22 A	26-May-22 A		2	100%
P10-2120.51.2	Basement wall (2nd side) Formwork to +7.6mPD	4	28-May-22 A	01-Jun-22 A		2	100%
P10-2120.61	Concreting of Basement wall to +7.6mPD	1	02-Jun-22 A	02-Jun-22 A		2	100%
Basement Retaining Wall Bay 2		42	21-May-22 A	07-Jul-22 A			100%
P10-2120.106	Basement wall (1st side) Formwork to +7.6mPD	5	21-May-22 A	26-May-22 A		2	100%
P10-2120.110	Basement wall (1st side) Formwork to +7.6mPD	2	28-May-22 A	30-May-22 A		2	100%
P10-2120.116	Basement wall Falsework and working platform to +7.6mPD	12	31-May-22 A	14-Jun-22 A		2	100%
P10-2120.126	Basement wall Rebar Fixing to +7.6mPD	1	04-Jun-22 A	04-Jun-22 A		2	100%
P10-2120.131	Basement wall Rebar Fixing to +7.6mPD	1	10-Jun-22 A	10-Jun-22 A		2	100%
P10-2120.133	Basement wall Rebar Fixing to +7.6mPD	2	13-Jun-22 A	14-Jun-22 A		2	100%
P10-2120.135	Basement wall Rebar Fixing to +7.6mPD	9	16-Jun-22 A	25-Jun-22 A		2	100%
P10-2120.136	Basement wall (2nd side) Formwork to +7.6mPD	1	10-Jun-22 A	10-Jun-22 A		2	100%
P10-2120.140	Basement wall (2nd side) Formwork to +7.6mPD	2	13-Jun-22 A	14-Jun-22 A		2	100%
P10-2120.146	Basement wall (2nd side) Formwork to +7.6mPD	12	16-Jun-22 A	29-Jun-22 A		2	100%
P10-2120.150	Basement wall (2nd side) Formwork to +7.6mPD	2	05-Jul-22 A	06-Jul-22 A		2	100%
P10-2120.152	Concreting of Basement wall to +7.6mPD	1	07-Jul-22 A	07-Jul-22 A		2	100%
Column C4, C5, C8, C9, C12, C13 & C17		36	07-Jul-22 A	11-Aug-22 A			100%
P10-2120.636	Basement Column Rebar Fixing to +7.6mPD	3	07-Jul-22 A	09-Jul-22 A		2	100%
P10-2120.646	Basement Column Formwork to +7.6mPD	3	11-Jul-22 A	13-Jul-22 A		2	100%
P10-2120.656	Concreting of Columns to +7.6mPD (C4, C8, C9, C13, C17)	1	14-Jul-22 A	14-Jul-22 A		2	100%
P10-2120.657	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	17	15-Jul-22 A	03-Aug-22 A		2	100%
P10-2120.658	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	2	08-Aug-22 A	08-Aug-22 A		2	100%
P10-2120.659	Concreting of Columns to +7.6mPD (C5, C12)	1	11-Aug-22 A	11-Aug-22 A		2	100%
Basement Retaining Wall Bay 3		86	21-May-22 A	31-Aug-22 A			100%
P10-2120.666	Basement wall (1st side) Formwork to +7.6mPD	5	21-May-22 A	26-May-22 A		2	100%
P10-2120.676	Basement wall Falsework and working platform to +7.6mPD	6	28-May-22 A	04-Jun-22 A		2	100%
P10-2120.686	Basement wall Rebar Fixing to +7.6mPD	1	10-Jun-22 A	10-Jun-22 A		2	100%
P10-2120.686-2	Basement wall Rebar Fixing to +7.6mPD	2	13-Jun-22 A	14-Jun-22 A		2	100%
P10-2120.686-4	Basement wall Rebar Fixing to +7.6mPD	12	16-Jun-22 A	29-Jun-22 A		2	100%
P10-2120.686-7	Basement wall Rebar Fixing to +7.6mPD	5	05-Jul-22 A	09-Jul-22 A		2	100%
P10-2120.696	Basement wall (2nd side) Formwork to +7.6mPD	17	11-Jul-22 A	29-Jul-22 A		2	100%
P10-2120.696-2	Basement wall (2nd side) Formwork to +7.6mPD	3	01-Aug-22 A	03-Aug-22 A		2	100%
P10-2120.706	Concreting of Basement wall to +7.6mPD	1	04-Aug-22 A	04-Aug-22 A		2	100%
P10-2120.836	Dismantling of Basement wall formwork	2	06-Aug-22 A	08-Aug-22 A		2	100%
P10-2120.846	Concrete rectification and Touch Up works	3	13-Aug-22 A	16-Aug-22 A		2	100%
P10-2120.856	Basement Wall Waterproofing & Testing	6	18-Aug-22 A	24-Aug-22 A		2	100%
P10-2120.856-3	Basement Wall Waterproofing & Testing	5	26-Aug-22 A	31-Aug-22 A		2	100%
Basement Internal Wall & Staircase		185	21-May-22 A	07-Dec-22 A			100%
P10-2120.866	Basement wall (1st side) Formwork to +7.6mPD	5	21-May-22 A	26-May-22 A		2	100%
P10-2120.876	Basement wall Falsework and working platform to +7.6mPD	11	28-May-22 A	11-Jun-22 A		2	100%
P10-2120.886	Basement wall Rebar Fixing to +7.6mPD	13	01-Jun-22 A	14-Jun-22 A		2	100%
P10-2120.886-02	Basement wall Rebar Fixing to +7.6mPD	13	16-Jun-22 A	29-Jun-22 A		2	100%
P10-2120.886-06	Basement wall Rebar Fixing to +7.6mPD	24	05-Jul-22 A	29-Jul-22 A		2	100%
P10-2120.886-08	Basement wall Rebar Fixing to +7.6mPD	4	01-Aug-22 A	04-Aug-22 A		2	100%
P10-2120.886-10	Basement wall Rebar Fixing to +7.6mPD	4	06-Aug-22 A	08-Aug-22 A		2	100%
P10-2120.886-12	Basement wall Rebar Fixing to +7.6mPD	1	11-Aug-22 A	11-Aug-22 A		2	100%
P10-2120.886-14	Basement wall Rebar Fixing to +7.6mPD	4	13-Aug-22 A	16-Aug-22 A		2	100%
P10-2120.886-16	Basement wall Rebar Fixing to +7.6mPD	6	18-Aug-22 A	24-Aug-22 A		2	100%
P10-2120.886-18	Basement wall Rebar Fixing to +7.6mPD	13	26-Aug-22 A	10-Sep-22 A		2	100%
P10-2120.896	Basement staircase Formwork to +7.6mPD	15	12-Sep-22 A	29-Sep-22 A		2	100%
P10-2120.896-2	Basement staircase Formwork to +7.6mPD	4	03-Oct-22 A	06-Oct-22 A		2	100%
P10-2120.896-4	Basement staircase Formwork to +7.6mPD	6	10-Oct-22 A	15-Oct-22 A		2	100%
P10-2120.896-6	Basement staircase Formwork to +7.6mPD	11	19-Oct-22 A	31-Oct-22 A		2	100%
P10-2120.906	Concreting of Basement Internal wall and Staircase to +7.6mPD (1st Pour)	1	01-Nov-22 A	01-Nov-22 A		2	100%
P10-2120.908	Removal of excessive concrete from 1st Pour	24	03-Nov-22 A	30-Nov-22 A		2	100%
P10-2120.910	Erect falsework for 2nd Pour concreting	5	01-Dec-22 A	06-Dec-22 A		2	100%
P10-2120.912	Concreting of Basement Internal wall and Staircase to +7.6mPD (2nd Pour)	1	07-Dec-22 A	07-Dec-22 A		2	100%
Basement to G/F Lift Shaft Wall		95	08-Jul-22 A	22-Aug-22 A			100%
P10-2120.1116	Basement Lift Shaft wall (1st side) Formwork to +7.6mPD	5	08-Jul-22 A	13-Jul-22 A		2	100%
P10-2120.1126	Basement Lift Shaft wall Falsework and working platform to +7.6mPD	10	14-Jul-22 A	25-Jul-22 A		2	100%
P10-2120.1136	Basement Lift Shaft wall Rebar Fixing to +7.6mPD	5	22-Jul-22 A	27-Jul-22 A		2	100%
P10-2120.1146	Basement Lift Shaft wall (2nd side) Formwork to +7.6mPD	5	25-Jul-22 A	29-Jul-22 A		2	100%
P10-2120.1156	Original Concreting of Basement Lift Shaft wall to +7.6mPD	1	01-Aug-22 A	01-Aug-22 A		2	100%
P10-2120.1176	Receipt Reply of RFI-176 & 178 for the change of dimension of lift core wall	1	02-Aug-22 A	02-Aug-22 A		2	100%
P10-2120.1186	Dismantling of Basement wall formwork and rebar, and re-construct the new lift shaft	16	03-Aug-22 A	20-Aug-22 A		2	100%



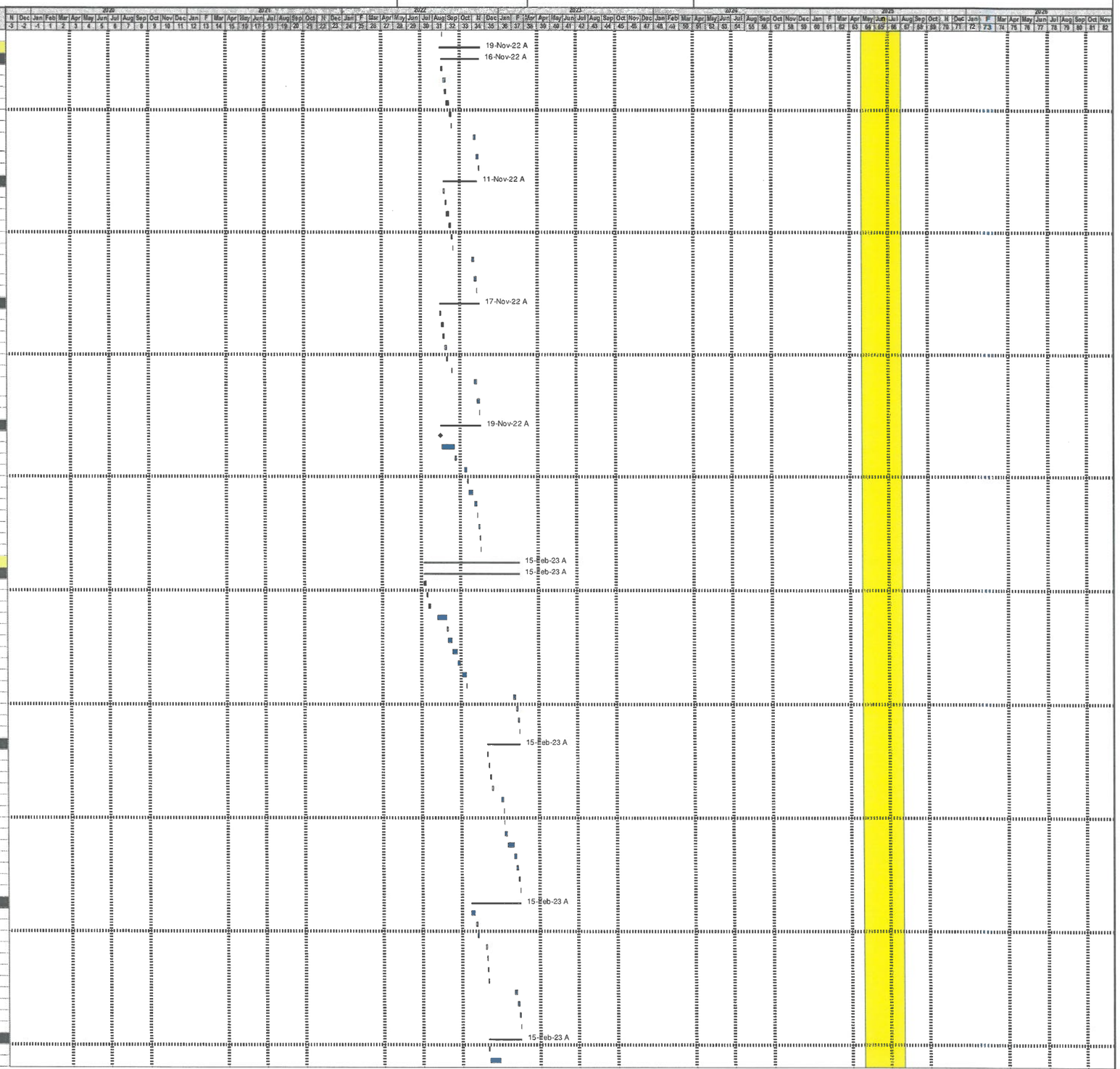
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TPA	Duration % Complete
P10-2120.1196	Deferred Concreting of Basement Lift Shaft wall to +7.6mPD	1	22-Aug-22 A	22-Aug-22 A		2	100%
Basement Water Tank		90	15-Aug-22 A	19-Nov-22 A			100%
Sprinkler Tank		80	19-Aug-22 A	16-Nov-22 A			100%
P10-2120.916	Dismantle formwork for retaining wall	4	19-Aug-22 A	23-Aug-22 A		2	100%
P10-2120.926	Water Tanks Slab formwork	5	24-Aug-22 A	29-Aug-22 A		2	100%
P10-2120.936	Water Tanks Slab Rebar Fixing	4	27-Aug-22 A	31-Aug-22 A		2	100%
P10-2120.946	Water Tanks Wall formwork	6	01-Sep-22 A	07-Sep-22 A		2	100%
P10-2120.956	Water Tanks Wall Rebar Fixing	6	08-Sep-22 A	12-Sep-22 A		2	100%
P10-2120.966	Concreting of Water Tank Base Slab & 1st portion of Wall	1	13-Sep-22 A	13-Sep-22 A		2	100%
P10-2120.976	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	04-Nov-22 A	09-Nov-22 A		2	100%
P10-2120.986	Water tank top slab Rebar Fixing	5	10-Nov-22 A	15-Nov-22 A		2	100%
P10-2120.996	Water tank wall and top slab concreting	1	16-Nov-22 A	16-Nov-22 A		2	100%
FS Water Tank		70	24-Aug-22 A	11-Nov-22 A			100%
P10-2120.1006	Dismantle formwork for retaining wall	4	24-Aug-22 A	27-Aug-22 A		2	100%
P10-2120.1016	Water Tanks Wall formwork	3	29-Aug-22 A	31-Aug-22 A		2	100%
P10-2120.1026	Water Tanks Wall Rebar Fixing	5	01-Sep-22 A	06-Sep-22 A		2	100%
P10-2120.1036	Water Tanks Slab formwork	4	07-Sep-22 A	10-Sep-22 A		2	100%
P10-2120.1046	Water Tanks Slab Rebar Fixing	4	12-Sep-22 A	15-Sep-22 A		2	100%
P10-2120.1056	Concreting of Water Tanks Base Slab & Wall	1	16-Sep-22 A	16-Sep-22 A		2	100%
P10-2120.1066	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	31-Oct-22 A	04-Nov-22 A		2	100%
P10-2120.1076	Water tank top slab Rebar Fixing	5	05-Nov-22 A	10-Nov-22 A		2	100%
P10-2120.1086	Water tank wall and top slab concreting	1	11-Nov-22 A	11-Nov-22 A		2	100%
Rain Water Tank		88	15-Aug-22 A	17-Nov-22 A			100%
P10-2120.446	Dismantle formwork for retaining wall	4	15-Aug-22 A	18-Aug-22 A		2	100%
P10-2120.456	Water Tanks Slab formwork	5	19-Aug-22 A	24-Aug-22 A		2	100%
P10-2120.466	Water Tanks Slab Rebar Fixing	4	23-Aug-22 A	26-Aug-22 A		2	100%
P10-2120.486	Water Tanks Wall formwork	4	27-Aug-22 A	31-Aug-22 A		2	100%
P10-2120.536	Water Tanks Wall Rebar Fixing	3	01-Sep-22 A	03-Sep-22 A		2	100%
P10-2120.546	Concreting of Water Tanks Base Slab & Wall	1	13-Sep-22 A	13-Sep-22 A		2	100%
P10-2120.556	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	05-Nov-22 A	10-Nov-22 A		2	100%
P10-2120.566	Water tank top slab Rebar Fixing	5	11-Nov-22 A	16-Nov-22 A		2	100%
P10-2120.576	Water tank wall and top slab concreting	1	17-Nov-22 A	17-Nov-22 A		2	100%
Irrigation water Tank		83	16-Aug-22 A	19-Nov-22 A			100%
P10-2120.1096	Receipt E-mail from Project Manager for the change of dimensions of water tank	0		16-Aug-22 A		2	100%
P10-2120.1106	Works hold up until further notice	25	20-Aug-22 A	17-Sep-22 A		2	100%
P10-2120.496	Dismantle formwork for retaining wall	4	19-Sep-22 A	23-Sep-22 A		2	100%
P10-2120.506	Water Tanks wall formwork	5	12-Oct-22 A	17-Oct-22 A		2	100%
P10-2120.516	Water Tanks wall Rebar Fixing	4	18-Oct-22 A	21-Oct-22 A		2	100%
P10-2120.526	Water Tanks slab formwork	8	22-Oct-22 A	31-Oct-22 A		2	100%
P10-2120.586	Water Tanks slab Rebar Fixing	5	05-Nov-22 A	10-Nov-22 A		2	100%
P10-2120.596	Concreting of Water Tank 1st Portion of wall & Base Slab	1	11-Nov-22 A	11-Nov-22 A		2	100%
P10-2120.606	Erect Props for supporting water tank top slab soffit formwork	3	14-Nov-22 A	16-Nov-22 A		2	100%
P10-2120.616	Water tank top slab Rebar Fixing	2	17-Nov-22 A	18-Nov-22 A		2	100%
P10-2120.626	Water tank wall and top slab concreting	1	19-Nov-22 A	19-Nov-22 A		2	100%
High Level Pile Cap & Column		201	08-Jul-22 A	15-Feb-23 A			100%
C20 to C22		201	08-Jul-22 A	15-Feb-23 A			100%
P10-2120.156	Dismantling of Basement wall formwork	6	08-Jul-22 A	13-Jul-22 A		2	100%
P10-2120.166	Concrete rectification and Touch Up works	3	14-Jul-22 A	16-Jul-22 A		2	100%
P10-2120.176	Basement Wall Waterproofing & Testing	6	18-Jul-22 A	23-Jul-22 A		2	100%
P10-2120.196	Backfill of Temp. Slope & level formation of high level slab	19	08-Aug-22 A	29-Aug-22 A		2	100%
P10-2120.206	Grout Breaking of Socket H Piles	3	30-Aug-22 A	01-Sep-22 A		2	100%
P10-2120.216	High Level Pile Head treatment and Capping Plate Installation (8nos)	8	02-Sep-22 A	10-Sep-22 A		2	100%
P10-2120.226	Casting of Vertical Blinding	10	12-Sep-22 A	23-Sep-22 A		1	100%
P10-2120.266	Rebar fixing of Pile Cap and Columns	5	24-Sep-22 A	29-Sep-22 A		1	100%
P10-2120.276	Pile Cap Formwork erection	7	05-Oct-22 A	14-Oct-22 A		1	100%
P10-2120.286	High Level Pile Cap Concreting	1	15-Oct-22 A	15-Oct-22 A		1	100%
P10-2120.366	Erect Working Platform from Pile Cap Level to 1/F	5	01-Feb-23 A	06-Feb-23 A		1	100%
P10-2120.376	Columns Rebar Fixing from Pile Cap Level to 1/F	5	07-Feb-23 A	11-Feb-23 A		1	100%
P10-2120.386	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-23 A	14-Feb-23 A		1	100%
P10-2120.396	Concreting of Columns to 1/F	1	15-Feb-23 A	15-Feb-23 A		1	100%
C19		67	01-Dec-22 A	15-Feb-23 A			100%
P10-2120.1272	Excavation to expose remaining pile head of C19 Pile Cap	3	01-Dec-22 A	03-Dec-22 A		2	100%
P10-2120.1276	Grout Breaking of Socket H Piles	3	05-Dec-22 A	07-Dec-22 A		2	100%
P10-2120.1286	High Level Pile Head treatment (2nos)	3	08-Dec-22 A	10-Dec-22 A		2	100%
P10-2120.1296	Capping Plate Installation (1no)	3	12-Dec-22 A	14-Dec-22 A		1	100%
P10-2120.1302	Rebar fixing of Pile Cap and Columns	4	03-Jan-23 A	07-Jan-23 A		1	100%
P10-2120.1304	Pile Cap Formwork erection	3	09-Jan-23 A	09-Jan-23 A		1	100%
P10-2120.1305	High Level Pile Cap Concreting	1	10-Jan-23 A	10-Jan-23 A		1	100%
P10-2120.1307	Dismantling Formwork and install waterproofing Membrane	5	11-Jan-23 A	16-Jan-23 A		1	100%
P10-2120.1309	Backfill to formation for erecton of working platform	1	17-Jan-23 A	31-Jan-23 A		1	100%
P10-2120.1314	Erect Working Platform from Pile Cap Level to 1/F	5	01-Feb-23 A	06-Feb-23 A		1	100%
P10-2120.1316	Columns Rebar Fixing from Pile Cap Level to 1/F	5	06-Feb-23 A	10-Feb-23 A		1	100%
P10-2120.1326	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-23 A	14-Feb-23 A		1	100%
P10-2120.1336	Concreting of Columns to 1/F	1	15-Feb-23 A	15-Feb-23 A		1	100%
C3, C6		103	24-Oct-22 A	15-Feb-23 A			100%
P10-2120.318	Excavation to re-expose remaining pile head of Pile Caps	7	24-Oct-22 A	31-Oct-22 A		2	100%
P10-2120.322	Grout Breaking of Socket H Piles	3	03-Nov-22 A	07-Nov-22 A		2	100%
P10-2120.324	Remaining High Level Pile Head treatment and Capping Plate Installation	2	08-Nov-22 A	10-Nov-22 A		2	100%
P10-2120.326	Casting of Vertical Blinding	2	26-Nov-22 A	28-Nov-22 A		1	100%
P10-2120.336	Rebar fixing of Pile Cap, Column starter and Strap Beam	2	29-Nov-22 A	30-Nov-22 A		1	100%
P10-2120.346	Pile Cap Formwork erection	2	30-Nov-22 A	01-Dec-22 A		1	100%
P10-2120.356	High Level Pile Cap, Strap Beam & column kickers Concreting	1	02-Dec-22 A	02-Dec-22 A		1	100%
P10-2120.406	Erect Working Platform from Pile Cap Level to 1/F	5	01-Feb-23 A	06-Feb-23 A		1	100%
P10-2120.416	Columns Rebar Fixing from Pile Cap Level to 1/F	5	07-Feb-23 A	11-Feb-23 A		1	100%
P10-2120.426	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-23 A	14-Feb-23 A		1	100%
P10-2120.436	Concreting of Columns to 1/F	1	15-Feb-23 A	15-Feb-23 A		1	100%
C10, C14 & C18		67	01-Dec-22 A	15-Feb-23 A			100%
P10-2120.1360	Excavation to expose remaining pile head of Pile Caps	3	01-Dec-22 A	03-Dec-22 A		2	100%
P10-2120.1376	Capping Plate Installation	20	05-Dec-22 A	28-Dec-22 A		1	100%



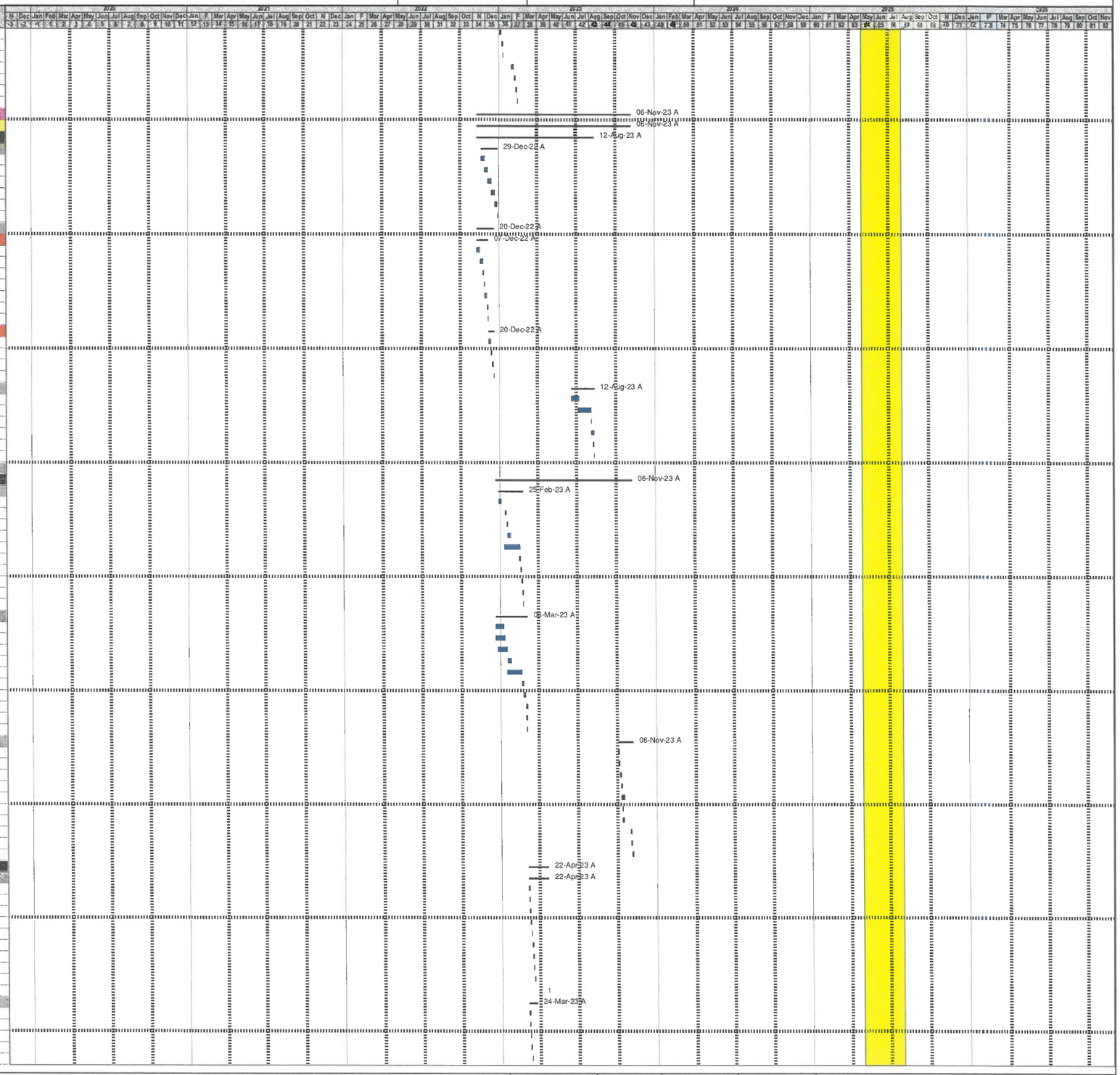
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-2120.1386	Rebar fixing of Pile Cap, Column starter and Strap Beam	4	04-Jan-23 A	07-Jan-23 A		1	100%
P10-2120.1396	Pile Cap Formwork erection	3	09-Jan-23 A	11-Jan-23 A		1	100%
P10-2120.1406	High Level Pile Cap, Strap Beam & column kickers Concreting	1	12-Jan-23 A	12-Jan-23 A		1	100%
P10-2120.1446	Erect Working Platform from Pile Cap Level to 1/F	5	01-Feb-23 A	06-Feb-23 A		1	100%
P10-2120.1456	Columns Rebar Fixing from Pile Cap Level to 1/F	4	07-Feb-23 A	10-Feb-23 A		1	100%
P10-2120.1466	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-23 A	14-Feb-23 A		1	100%
P10-2120.1476	Concreting of Columns to 1/F	1	15-Feb-23 A	15-Feb-23 A		1	100%
Superstructure		328	10-Nov-22 A	06-Nov-23 A			100%
Ground Floor to Roof Floor		328	10-Nov-22 A	06-Nov-23 A			100%
B/F to G/F Wall and G/F Slab		249	10-Nov-22 A	12-Aug-23 A			100%
Bay 1		30	21-Nov-22 A	29-Dec-22 A			100%
P10-2350	Erection of falsework and working platform for B/F to G/F	3	21-Nov-22 A	28-Nov-22 A		1	100%
P10-2390	Erection of falsework for G/F Slab	7	29-Nov-22 A	06-Dec-22 A		1	100%
P10-2400	Erection of Formwork for G/F Slab	7	07-Dec-22 A	14-Dec-22 A		1	100%
P10-2410	Rebar Fixing for G/F Slab	7	15-Dec-22 A	22-Dec-22 A		1	100%
P10-2420	G/F Slab Shutters	4	23-Dec-22 A	28-Dec-22 A		1	100%
P10-2430	G/F Slab & B/F to G/F wall Concreting	1	29-Dec-22 A	29-Dec-22 A		1	100%
Bay 2		82	10-Nov-22 A	30-Dec-22 A			100%
Tx Room Cable Trench and slab		27	10-Nov-22 A	07-Dec-22 A			100%
P10-2120.776	Trench base slab Falsework / formwork supporting cable trench	7	10-Nov-22 A	17-Nov-22 A		2	100%
P10-2120.786	Trench base slab Rebar fixing supporting cable trench	6	18-Nov-22 A	24-Nov-22 A		2	100%
P10-2120.792	Trench side formwork	5	25-Nov-22 A	29-Nov-22 A		2	100%
P10-2120.796	Trench base slab concreting supporting cable trench	1	28-Nov-22 A	28-Nov-22 A		2	100%
P10-2120.806	Cable trench Wall / Cover slab formwork	4	29-Nov-22 A	02-Dec-22 A		2	100%
P10-2120.816	Cable trench Wall / Cover slab Rebar fixing	2	05-Dec-22 A	06-Dec-22 A		2	100%
P10-2120.826	Cable trench Wall / Cover slab Concreting	1	07-Dec-22 A	07-Dec-22 A		2	100%
G/F Slab		12	08-Dec-22 A	20-Dec-22 A			100%
P10-4170	Erection of Formwork for G/F Slab	4	08-Dec-22 A	12-Dec-22 A		1	100%
P10-4180	Rebar Fixing for G/F Slab	3	13-Dec-22 A	15-Dec-22 A		1	100%
P10-4190	G/F Slab Shutters	3	16-Dec-22 A	19-Dec-22 A		1	100%
P10-4200	G/F Slab oncreting	1	20-Dec-22 A	20-Dec-22 A		1	100%
Bay 4 (On Grade Slab) (Toilet)		51	20-Jun-23 A	12-Aug-23 A			100%
P10-2110.112	Dismantle falseworks from G/F to 1/F	6	20-Jun-23 A	06-Jul-23 A		2	100%
P10-2110.143	Laying Underground Drainage and testing	20	06-Jul-23 A	04-Aug-23 A		1	100%
P10-2110.153	Backfilling of Drainages	1	05-Aug-23 A	05-Aug-23 A		1	100%
P10-2110.173	Rebar fixing of on grade Slab	5	05-Aug-23 A	10-Aug-23 A		1	100%
P10-2110.183	Base Slab formwork shutters	2	10-Aug-23 A	11-Aug-23 A		1	100%
P10-2110.193	G/F On Grade Slab Concreting	1	12-Aug-23 A	12-Aug-23 A		1	100%
Bay 5 (On Grade Slab) (Tx Room)		0					0%
G/F to 1/F Wall and 1/F Slab		289	21-Dec-22 A	06-Nov-23 A			100%
Bay 1		236	30-Dec-22 A	25-Feb-23 A			100%
P10-2620	Erection of falsework and working platform for G/F to 1/F wall	3	30-Dec-22 A	03-Jan-23 A		1	100%
P10-2630	Erection of One Side Formwork for G/F to 1/F Wall	3	13-Jan-23 A	16-Jan-23 A		1	100%
P10-2640	Rebar Fixing for G/F to 1/F Wall	3	17-Jan-23 A	19-Jan-23 A		1	100%
P10-2650	Erection of remaining side formwork for G/F to 1/F Wall	3	20-Jan-23 A	26-Jan-23 A		1	100%
P10-2655	G/F to 1/F Wall & Columns Concreting	30	12-Jan-23 A	16-Feb-23 A		1	100%
P10-2660	Erection of falsework and working platform for 1/F Slab	3	16-Feb-23 A	18-Feb-23 A		1	100%
P10-2670	Erection of Formwork for 1/F Slab	3	18-Feb-23 A	21-Feb-23 A		1	100%
P10-2680	Rebar Fixing for 1/F Slab	3	21-Feb-23 A	23-Feb-23 A		1	100%
P10-2690	1/F Slab Shutters	2	23-Feb-23 A	24-Feb-23 A		1	100%
P10-2700	1/F Slab Concreting	1	25-Feb-23 A	25-Feb-23 A		1	100%
Bay 2		53	21-Feb-23 A	08-Mar-23 A			100%
P10-2710	Erection of falsework and working platform for G/F to 1/F wall	15	21-Dec-22 A	09-Jan-23 A		1	100%
P10-2720	Erection of One Side Formwork for G/F to 1/F Wall	17	22-Dec-22 A	12-Jan-23 A		1	100%
P10-2730	Rebar Fixing for G/F to 1/F Wall	4	27-Dec-22 A	17-Jan-23 A		1	100%
P10-2740	Erection of remaining side formwork for G/F to 1/F Wall	5	18-Jan-23 A	26-Jan-23 A		1	100%
P10-2745	G/F to 1/F Wall & Columns Concreting	30	18-Jan-23 A	21-Feb-23 A		1	100%
P10-2750	Erection of falsework and working platform for 1/F Slab	4	21-Feb-23 A	24-Feb-23 A		1	100%
P10-2760	Erection of Formwork for 1/F Slab	4	25-Feb-23 A	01-Mar-23 A		1	100%
P10-2770	Rebar Fixing for 1/F Slab	4	02-Mar-23 A	06-Mar-23 A		1	100%
P10-2780	1/F Slab Shutters	3	02-Mar-23 A	04-Mar-23 A		1	100%
P10-2790	1/F Slab Concreting	1	04-Mar-23 A	04-Mar-23 A		1	100%
Bay 3		54	03-Oct-23 A	06-Nov-23 A			100%
P10-2800	Erection of falsework and working platform for G/F to 1/F wall	3	03-Oct-23 A	05-Oct-23 A		1	100%
P10-2810	Erection of One Side Formwork for G/F to 1/F Wall	2	05-Oct-23 A	07-Oct-23 A		1	100%
P10-2820	Rebar Fixing for G/F to 1/F Wall	2	07-Oct-23 A	10-Oct-23 A		1	100%
P10-2830	Erection of remaining side formwork for G/F to 1/F Wall	2	10-Oct-23 A	12-Oct-23 A		1	100%
P10-2835	G/F to 1/F Wall & Columns Concreting	7	10-Oct-23 A	17-Oct-23 A		1	100%
P10-2840	Erection of falsework and working platform for 1/F Slab	2	12-Oct-23 A	13-Oct-23 A		1	100%
P10-2850	Erection of Formwork for 1/F Slab	2	13-Oct-23 A	16-Oct-23 A		1	100%
P10-2860	Rebar Fixing for 1/F Slab	3	31-Oct-23 A	02-Nov-23 A		1	100%
P10-2870	1/F Slab Shutters	2	02-Nov-23 A	04-Nov-23 A		1	100%
P10-2880	1/F Slab Concreting	1	04-Nov-23 A	06-Nov-23 A		1	100%
1/F to +12.850mPD wall and +12.850mPD slab		42	06-Mar-23 A	22-Apr-23 A			100%
Bay 1		42	06-Mar-23 A	22-Apr-23 A			100%
P10-3250	Erection of props for dwarf wall	3	06-Mar-23 A	08-Mar-23 A		1	100%
P10-3260	Erection of One Side Formwork for dwarf wall	2	08-Mar-23 A	09-Mar-23 A		1	100%
P10-3270	Rebar Fixing for dwarf wall	2	09-Mar-23 A	10-Mar-23 A		1	100%
P10-3280	Erection of remaining side formwork for dwarf wall	2	10-Mar-23 A	11-Mar-23 A		1	100%
P10-3290	Concreting of drawf wall	1	13-Mar-23 A	13-Mar-23 A		1	100%
P10-3300	Dismantling formwork of drawf wall	3	14-Mar-23 A	16-Mar-23 A		1	100%
P10-3310	Erection of formwork for double slab	2	16-Mar-23 A	17-Mar-23 A		1	100%
P10-3320	Double slab Rebar fixing	2	17-Mar-23 A	18-Mar-23 A		1	100%
P10-3330	Double Slab Shutters	1	20-Mar-23 A	20-Mar-23 A		1	100%
P10-3340	Double Slab Concreting	1	22-Apr-23 A	22-Apr-23 A		1	100%
Bay 2		19	06-Mar-23 A	24-Mar-23 A			100%
P10-3350	Erection of props for dwarf wall	3	06-Mar-23 A	08-Mar-23 A		1	100%
P10-3360	Erection of One Side Formwork for dwarf wall	2	08-Mar-23 A	09-Mar-23 A		1	100%
P10-3370	Rebar Fixing for dwarf wall	2	09-Mar-23 A	10-Mar-23 A		1	100%
P10-3380	Erection of remaining side formwork for dwarf wall	2	10-Mar-23 A	11-Mar-23 A		1	100%
P10-3390	Concreting of drawf wall	1	13-Mar-23 A	13-Mar-23 A		1	100%



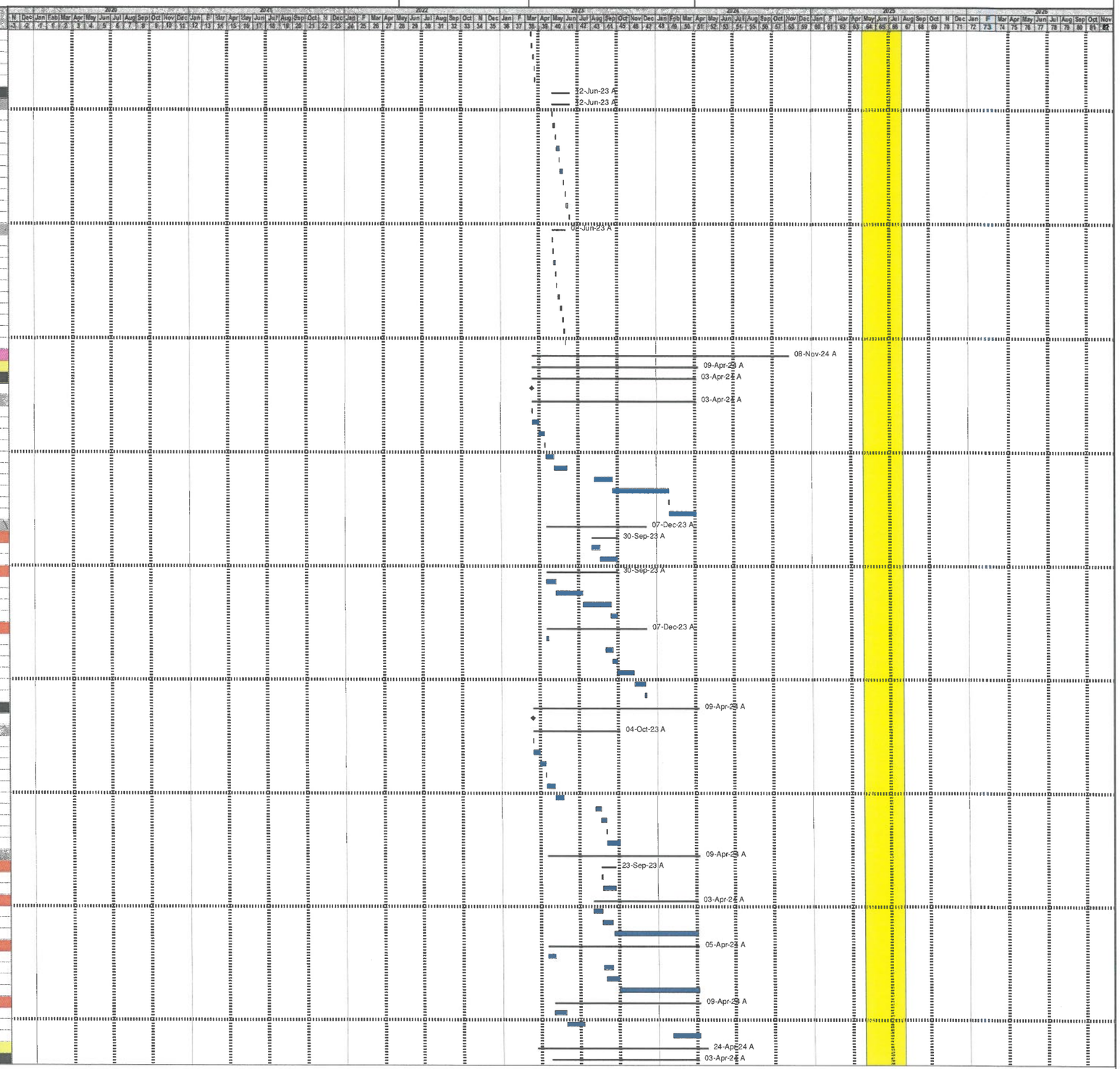
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-3400	Dismantling formwork of drawl wall	3	14-Mar-23 A	16-Mar-23 A	1		100%
P10-3410	Erection of formwork for double slab	3	16-Mar-23 A	18-Mar-23 A	1		100%
P10-3420	Double slab Rebar fixing	3	20-Mar-23 A	22-Mar-23 A	1		100%
P10-3430	Double Slab Shutters	1	23-Mar-23 A	23-Mar-23 A	1		100%
P10-3440	Double Slab Concreting	1	24-Mar-23 A	24-Mar-23 A	1		100%
1/F to R/F Wall and R/F Slab		39	02-May-23 A	12-Jun-23 A			100%
Bay 1		39	02-May-23 A	12-Jun-23 A			100%
P10-3810	Erection of falsework and working platform from Double Slab to R/F wall	3	02-May-23 A	04-May-23 A	1		100%
P10-3820	Erection of One Side Formwork from Double Slab to R/F wall	3	05-May-23 A	09-May-23 A	1		100%
P10-3830	Rebar Fixing from Double Slab to R/F wall	3	10-May-23 A	12-May-23 A	1		100%
P10-3840	Erection of remaining side formwork from Double Slab to R/F wall	3	13-May-23 A	19-May-23 A	1		100%
P10-3845	Double Slab to R/F wall Concreting	1	20-May-23 A	20-May-23 A	1		100%
P10-3850	Erection of falsework and working platform for R/F Slab	4	22-May-23 A	27-May-23 A	1		100%
P10-3860	Erection of Formwork for R/F Slab	2	29-May-23 A	30-May-23 A	1		100%
P10-3870	Rebar Fixing for R/F Slab	2	02-Jun-23 A	03-Jun-23 A	1		100%
P10-3880	R/F Slab Shutters	2	05-Jun-23 A	08-Jun-23 A	1		100%
P10-3890	R/F Slab Concreting	1	12-Jun-23 A	12-Jun-23 A	1		100%
Bay 2		39	02-May-23 A	12-Jun-23 A			100%
P10-3900	Erection of falsework and working platform from Double Slab to R/F wall	3	02-May-23 A	04-May-23 A	1		100%
P10-3910	Erection of One Side Formwork from Double Slab to R/F wall	3	04-May-23 A	06-May-23 A	1		100%
P10-3920	Rebar Fixing from Double Slab to R/F wall	3	06-May-23 A	10-May-23 A	1		100%
P10-3930	Erection of remaining side formwork from Double Slab to R/F wall	3	10-May-23 A	12-May-23 A	1		100%
P10-3935	Double Slab to R/F wall Concreting	1	13-May-23 A	13-May-23 A	1		100%
P10-3940	Erection of falsework and working platform for R/F Slab	3	16-May-23 A	20-May-23 A	1		100%
P10-3950	Erection of Formwork for R/F Slab	3	22-May-23 A	25-May-23 A	1		100%
P10-3960	Rebar Fixing for R/F Slab	2	27-May-23 A	29-May-23 A	1		100%
P10-3970	R/F Slab Shutters	2	30-May-23 A	31-May-23 A	1		100%
P10-3980	R/F Slab Concreting	1	02-Jun-23 A	02-Jun-23 A	1		100%
ABWF / E&M Works		550	15-Mar-23 A	08-Nov-24 A			100%
Basement Floor		301	15-Mar-23 A	09-Apr-24 A			100%
Rainwater Harvesting Tank / Irrigation Pump Room		301	15-Mar-23 A	03-Apr-24 A			100%
P10-BFRH-1000	Access Date of B/F Rainwater and Irrigation Room Fitting Out	0	15-Mar-23 A				100%
ABWF		301	15-Mar-23 A	03-Apr-24 A			100%
P10-BFRH-1010	Setting Out	2	15-Mar-23 A	16-Mar-23 A	0		100%
P10-BFRH-1020	Water Tanks Props and formwork removal	12	17-Mar-23 A	31-Mar-23 A	0		100%
P10-BFRH-1030	Water Tanks water testing before waterproofing and touch up works	6	01-Apr-23 A	13-Apr-23 A	0		100%
P10-BFRH-1040	Erect Scaffolding for wall and ceiling finishes	2	14-Apr-23 A	15-Apr-23 A	0		100%
P10-BFRH-1050	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	17-Apr-23 A	05-May-23 A	0		100%
P10-BFRH-1060	Wall Finishes (Wall waterproofing, plastering, Skim Coat and 1st Coat Painting)	21	06-May-23 A	05-Jun-23 A	0		100%
P10-BFRH-1070	Water tanks waterproofing and tiling	12	08-Aug-23 A	20-Sep-23 A	0		100%
P10-BFRH-1080	Concrete Plinth Casting and finishes	12	20-Sep-23 A	30-Jan-24 A	0		100%
P10-BFRH-1090	Floor Screeding	2	30-Jan-24 A	31-Jan-24 A	0		100%
P10-BFRH-1100	Access Panel and Cat Ladder Installation to water tank and door installation	10	31-Jan-24 A	03-Apr-24 A	0		100%
BS Works		277	17-Apr-23 A	07-Dec-23 A			100%
MVAC		24	01-Aug-23 A	30-Sep-23 A			100%
P10-BFRH-1110	Setting out for all equipment / MOS inspection	3	01-Aug-23 A	21-Aug-23 A	0		100%
P10-BFRH-1120	Air Duct installation	21	21-Aug-23 A	30-Sep-23 A	0		100%
PD		148	17-Apr-23 A	30-Sep-23 A			100%
P10-BFRH-1130	setting out for all equipment / MOS inspection	10	17-Apr-23 A	09-May-23 A	0		100%
P10-BFRH-1140	Installation of inertia block, FRP water tank, pressure pipe	30	09-May-23 A	11-Jul-23 A	0		100%
P10-BFRH-1150	Installation of pipework, pumps, LMCP and accessories	35	11-Jul-23 A	15-Sep-23 A	0		100%
P10-BFRH-1220	Sump Pit Installation	20	15-Sep-23 A	30-Sep-23 A	0		100%
EL		217	17-Apr-23 A	07-Dec-23 A			100%
P10-BFRH-1160	Setting out for all equipment / MOS inspection	2	17-Apr-23 A	22-Apr-23 A	0		100%
P10-BFRH-1170	Installation of cable containments	15	02-Sep-23 A	19-Sep-23 A	0		100%
P10-BFRH-1180	Cable wiring	20	19-Sep-23 A	30-Sep-23 A	0		100%
P10-BFRH-1190	Installation of Lighting fitting and small power provision	32	29-Sep-23 A	08-Nov-23 A	0		100%
P10-BFRH-1200	Plants Installation	24	09-Nov-23 A	04-Dec-23 A	0		100%
P10-BFRH-1210	T&C of rain harvesting & Irrigation Plants	4	04-Dec-23 A	07-Dec-23 A	0		100%
Sprinkler & FS Pump Room		300	15-Mar-23 A	09-Apr-24 A			100%
P10-BFFS-1000	Access Date of B/F Sprinkler and FS Pump Room Fitting Out	0	15-Mar-23 A				100%
ABWF		128	15-Mar-23 A	04-Oct-23 A			100%
P10-BFFS-1100	Water Tanks Props and formwork removal	2	15-Mar-23 A	16-Mar-23 A	0		100%
P10-BFFS-1110	Setting Out	12	17-Mar-23 A	31-Mar-23 A	0		100%
P10-BFFS-1120	Water Tanks water testing before waterproofing and touch up works	6	01-Apr-23 A	13-Apr-23 A	0		100%
P10-BFFS-1130	Erect Scaffolding for wall and ceiling finishes	2	14-Apr-23 A	15-Apr-23 A	0		100%
P10-BFFS-1140	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	17-Apr-23 A	05-May-23 A	0		100%
P10-BFFS-1150	Wall Finishes (Wall waterproofing, plastering, Skim Coat and 1st Coat Painting)	14	06-May-23 A	25-May-23 A	0		100%
P10-BFFS-1160	Water tanks waterproofing and tiling	12	08-Aug-23 A	21-Aug-23 A	0		100%
P10-BFFS-1170	Concrete Plinth Casting and finishes	12	21-Aug-23 A	02-Sep-23 A	0		100%
P10-BFFS-1180	Floor Screeding	2	02-Sep-23 A	04-Sep-23 A	0		100%
P10-BFFS-1200	Access Panel and Cat Ladder Installation to water tank and door installation	10	04-Sep-23 A	04-Oct-23 A	0		100%
BS Works		273	17-Apr-23 A	09-Apr-24 A			100%
MVAC		21	21-Aug-23 A	23-Sep-23 A			100%
P10-BFFS-1010	Setting out for all equipment / MOS inspection	3	21-Aug-23 A	24-Aug-23 A	0		100%
P10-BFFS-1020	Air Duct installation	18	24-Aug-23 A	23-Sep-23 A	0		100%
PD		88	02-Aug-23 A	03-Apr-24 A			100%
P10-BFFS-1030	Setting out for all equipment / MOS inspection	10	02-Aug-23 A	23-Aug-23 A	0		100%
P10-BFFS-1040	Installation of inertia block, FRP water tank, pressure	24	23-Aug-23 A	16-Sep-23 A	0		100%
P10-BFFS-1050	Installation of pipework, pumps, LMCP and accessories	25	18-Sep-23 A	03-Apr-24 A	0		100%
EL		172	17-Apr-23 A	05-Apr-24 A			100%
P10-BFFS-1060	Setting out for all equipment / MOS inspection	10	17-Apr-23 A	03-May-23 A	0		100%
P10-BFFS-1070	Installation of cable containment	5	25-Aug-23 A	15-Sep-23 A	0		100%
P10-BFFS-1080	Cable wiring	20	01-Sep-23 A	30-Sep-23 A	0		100%
P10-BFFS-1090	Installation of Lighting fitting and small power provision	25	30-Sep-23 A	05-Apr-24 A	0		100%
FS		233	01-May-23 A	09-Apr-24 A			100%
P10-BFFS-1190	FS 1st Fixing	15	01-May-23 A	29-May-23 A	0		100%
P10-BFFS-1220	FS Sprinkler Pump Installation	14	31-May-23 A	10-Jul-23 A	0		100%
P10-BFFS-1230	T&C of FS Plants	4	05-Feb-24 A	09-Apr-24 A	0		100%
Ground Floor		375	22-Mar-23 A	24-Apr-24 A			100%
Generator Room		209	24-Apr-23 A	03-Apr-24 A			100%



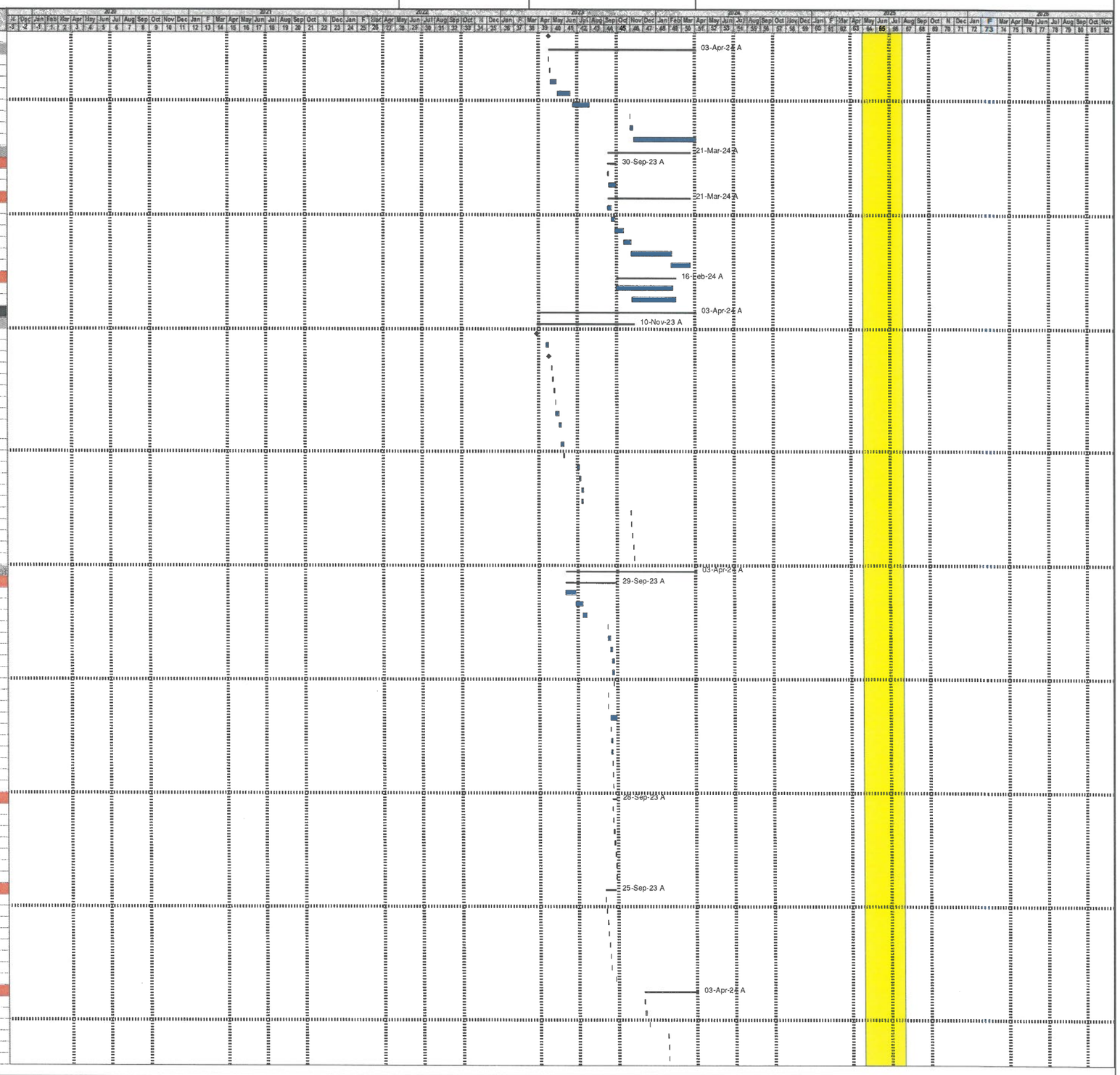
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Orginal Dur	Start	Finish	Total Float	Risk	Duration % Complete
P10-GFGS1000	Access Date of G/F Generator Room Fitting Out	0	24-Apr-23 A				100%
ABWF		122	24-Apr-23 A	23-Apr-24 A			100%
P10-GFGS1010	Setting Out	2	24-Apr-23 A	26-Apr-23 A		0	100%
P10-GFGS1020	Erect Scaffolding for wall and ceiling finishes	2	27-Apr-23 A	28-Apr-23 A		0	100%
P10-GFGS1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	29-Apr-23 A	13-May-23 A		0	100%
P10-GFGS1040	Wall Finishes (Wall plastering, Tiling, Skim Coat and 1st Coat Painting)	18	16-May-23 A	14-Jun-23 A		0	100%
P10-GFGS1050	Concrete Plinth Casting and finishes	12	21-Jun-23 A	29-Jul-23 A		0	100%
P10-GFGS1060	Floor Screeding	2	01-Nov-23 A	01-Nov-23 A		0	100%
P10-GFGS1070	Access Panel Installation to Generator Room	6	02-Nov-23 A	08-Nov-23 A		0	100%
P10-GFGS1080	Floor epoxy Painting & door installation	10	09-Nov-23 A	03-Apr-24 A		0	100%
BS Works		104	11-Sep-23 A	21-Mar-24 A			100%
MVAC		29	11-Sep-23 A	30-Sep-23 A			100%
P10-GFGS1110	Setting out for all equipment / MOS inspection	3	11-Sep-23 A	13-Sep-23 A		0	100%
P10-GFGS1120	Air Duct installation	18	13-Sep-23 A	30-Sep-23 A		0	100%
EL		70	11-Sep-23 A	21-Mar-24 A			100%
P10-GFGS1130	Setting out for all equipment / MOS inspection	10	11-Sep-23 A	20-Sep-23 A		0	100%
P10-GFGS1140	Installation of cable containment	10	20-Sep-23 A	28-Sep-23 A		0	100%
P10-GFGS1150	Cable wiring	12	28-Sep-23 A	18-Oct-23 A		0	100%
P10-GFGS1160	Installation of Lighting fitting and small power provision	16	18-Oct-23 A	04-Nov-23 A		0	100%
P10-GFGS1170	Genset Installation	21	04-Nov-23 A	06-Feb-24 A		0	100%
P10-GFGS1180	T&C of Genset	7	06-Feb-24 A	21-Mar-24 A		0	100%
FS		64	30-Sep-23 A	16-Feb-24 A			100%
P10-GFGS1090	FS Piping, cable containment Installation	21	30-Sep-23 A	09-Feb-24 A		0	100%
P10-GFGS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	06-Nov-23 A	16-Feb-24 A		0	100%
Tx Room / Switch Room		338	28-Mar-23 A	03-Apr-24 A			100%
ABWF		205	28-Mar-23 A	10-Nov-23 A			100%
P10-Tx1000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	28-Mar-23 A				100%
P10-Tx1100	Setting Out	2	18-Apr-23 A	24-Apr-23 A		0	100%
P10-Tx1105	Access Date of Tx Room Double Slab Builders works	0	24-Apr-23 A				100%
P10-Tx1107	Formwork dismantling and touch up works	3	01-May-23 A	02-May-23 A		0	100%
P10-Tx1108	Waterproofing works of Tx Room Double Slab	3	03-May-23 A	05-May-23 A		0	100%
P10-Tx1109	Flooding Test and Infra Red test after waterproofing	2	06-May-23 A	09-May-23 A		0	100%
P10-Tx1110	Erect Scaffolding for wall and ceiling finishes of Tx Rm	1	10-May-23 A	10-May-23 A		0	100%
P10-Tx1120	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	5	11-May-23 A	18-May-23 A		0	100%
P10-Tx1130	Wall Finishes (Wall plastering, Lourve Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	4	19-May-23 A	23-May-23 A		0	100%
P10-Tx1140	Cable Trench Plastering	5	23-May-23 A	30-May-23 A		0	100%
P10-Tx1150	Cable Trench Angle Frame Installation	2	30-May-23 A	31-May-23 A		0	100%
P10-Tx1160	Floor Screeding	2	01-Jul-23 A	05-Jul-23 A		0	100%
P10-Tx1170	Metal Door Frame Installation	2	06-Jul-23 A	08-Jul-23 A		0	100%
P10-Tx1180	Ceiling And Wall Painting (Final Coat)	2	10-Jul-23 A	14-Jul-23 A		0	100%
P10-Tx1190	Chequer Plate Installation	2	10-Jul-23 A	13-Jul-23 A		0	100%
P10-Tx1195	Lourves Installation	2	01-Nov-23 A	02-Nov-23 A		0	100%
P10-Tx1200	Painting to Chequer Plate	2	03-Nov-23 A	04-Nov-23 A		0	100%
P10-Tx1210	Floor Dust Proof Coating	2	06-Nov-23 A	07-Nov-23 A		0	100%
P10-Tx1220	Durasteel Installation to Air Duct	2	08-Nov-23 A	09-Nov-23 A		0	100%
P10-Tx1230	Metal Door Leaf Installation	1	10-Nov-23 A	10-Nov-23 A		0	100%
BS Works		382	02-Jun-23 A	03-Apr-24 A			100%
Electrical Works		104	02-Jun-23 A	29-Sep-23 A			100%
P10-Tx1240	Intallation (Electrical) of Conduit / Cable Containment at Tx Room	10	02-Jun-23 A	26-Jun-23 A		2	100%
P10-Tx1250	Cable Wiring at Tx Room	10	26-Jun-23 A	12-Jul-23 A		2	100%
P10-Tx1260	Installation of Light Fitting at Tx Room	4	12-Jul-23 A	21-Jul-23 A		2	100%
P10-Tx1270	Delivery of Cable Tray	1	09-Sep-23 A	09-Sep-23 A		2	100%
P10-Tx1530	Installation of Cable Tray over ceiling	4	09-Sep-23 A	14-Sep-23 A		2	100%
P10-Tx1540	Installation (Electrical) of Conduit at Switch Room	4	14-Sep-23 A	19-Sep-23 A		2	100%
P10-Tx1550	Cable Wiring at Switch Room	3	19-Sep-23 A	23-Sep-23 A		2	100%
P10-Tx1560	Installation of Light Fitting at Switch Room	3	19-Sep-23 A	23-Sep-23 A		2	100%
P10-Tx1570	FAT of Switchboard	1	23-Sep-23 A	23-Sep-23 A		2	100%
P10-Tx1580	Delivery and assembly of Switchboard at Switch Room	1	09-Sep-23 A	09-Sep-23 A		2	100%
P10-Tx1590	SAT of Switchboard	1	09-Sep-23 A	09-Sep-23 A		2	100%
P10-Tx1600	Installation of MCB Board	4	14-Sep-23 A	29-Sep-23 A		2	100%
P10-Tx1610	Installation of Earthing System at Tx Room and Switch Room	3	14-Sep-23 A	16-Sep-23 A		2	100%
P10-Tx1620	System T&C (Electrical Works)	3	16-Sep-23 A	19-Sep-23 A		2	100%
P10-Tx1630	Installation of Lighting conductors	3	16-Sep-23 A	19-Sep-23 A		2	100%
P10-Tx1640	Installation of Lightning Pits	2	19-Sep-23 A	20-Sep-23 A		2	100%
P10-Tx1650	Installation of Earthing Pits	2	20-Sep-23 A	21-Sep-23 A		2	100%
P10-Tx1660	Earthing and Lightning T&C	1	21-Sep-23 A	21-Sep-23 A		2	100%
MVAC Works		10	19-Sep-23 A	28-Sep-23 A			100%
P10-Tx1680	Intallation (MVAC) of Conduit at Tx Room	2	19-Sep-23 A	20-Sep-23 A		2	100%
P10-Tx1690	Cable Wiring & Cable Containment (MVAC) of Conduit at Tx Room	2	20-Sep-23 A	21-Sep-23 A		2	100%
P10-Tx1700	Installation of Fan and Air Duct at Tx Room	3	21-Sep-23 A	23-Sep-23 A		2	100%
P10-Tx1710	Installation of Fan Controller at Tx Room	2	23-Sep-23 A	25-Sep-23 A		2	100%
P10-Tx1720	Installation of Fan and Air Duct at Switchroom	2	25-Sep-23 A	26-Sep-23 A		2	100%
P10-Tx1730	Installation of LMCP at Switchroom	2	26-Sep-23 A	27-Sep-23 A		2	100%
P10-Tx1740	System T&C (MVAC Works)	2	27-Sep-23 A	28-Sep-23 A		2	100%
FS Works		23	01-Sep-23 A	25-Sep-23 A			100%
P10-Tx1770	Intallation (FS) of Conduit at Tx Room	2	01-Sep-23 A	02-Sep-23 A		2	100%
P10-Tx1780	Cable Wiring (FS) of Conduit at Tx Room	2	04-Sep-23 A	05-Sep-23 A		2	100%
P10-Tx1790	Installation of Heat Detector at Tx Room	2	06-Sep-23 A	07-Sep-23 A		2	100%
P10-Tx1800	Installation of (FS) Conduit at Switchroom	2	08-Sep-23 A	09-Sep-23 A		2	100%
P10-Tx1810	Cable Wiring (FS) of Conduit at Switchroom	2	11-Sep-23 A	12-Sep-23 A		2	100%
P10-Tx1820	Installation of Heat Detector at Switchroom	1	13-Sep-23 A	13-Sep-23 A		2	100%
P10-Tx1830	Installation of AFA panel and audio / visual alarm equipment	1	14-Sep-23 A	14-Sep-23 A		2	100%
P10-Tx1840	System T&C (FS Works)	1	25-Sep-23 A	25-Sep-23 A		2	100%
CLP works & Statutory Inspection		115	30-Nov-23 A	03-Apr-24 A			100%
P10-Tx2000	1st CLP Preinspection of Tx Room	1	30-Nov-23 A	30-Nov-23 A		2	100%
P10-Tx2010	1st Defect Rectification	4	01-Dec-23 A	05-Dec-23 A		2	100%
P10-Tx2015	Submit WR1	1	11-Dec-23 A	11-Dec-23 A			100%
P10-Tx2020	2nd CLP Inspection of Tx Room	1	24-Jan-24 A	24-Jan-24 A		2	100%
P10-Tx2030	2nd Defect Rectification	3	24-Jan-24 A	26-Jan-24 A		2	100%
P10-Tx2040	Handover Inspection with CLP	1	26-Jan-24 A	26-Jan-24 A		2	100%



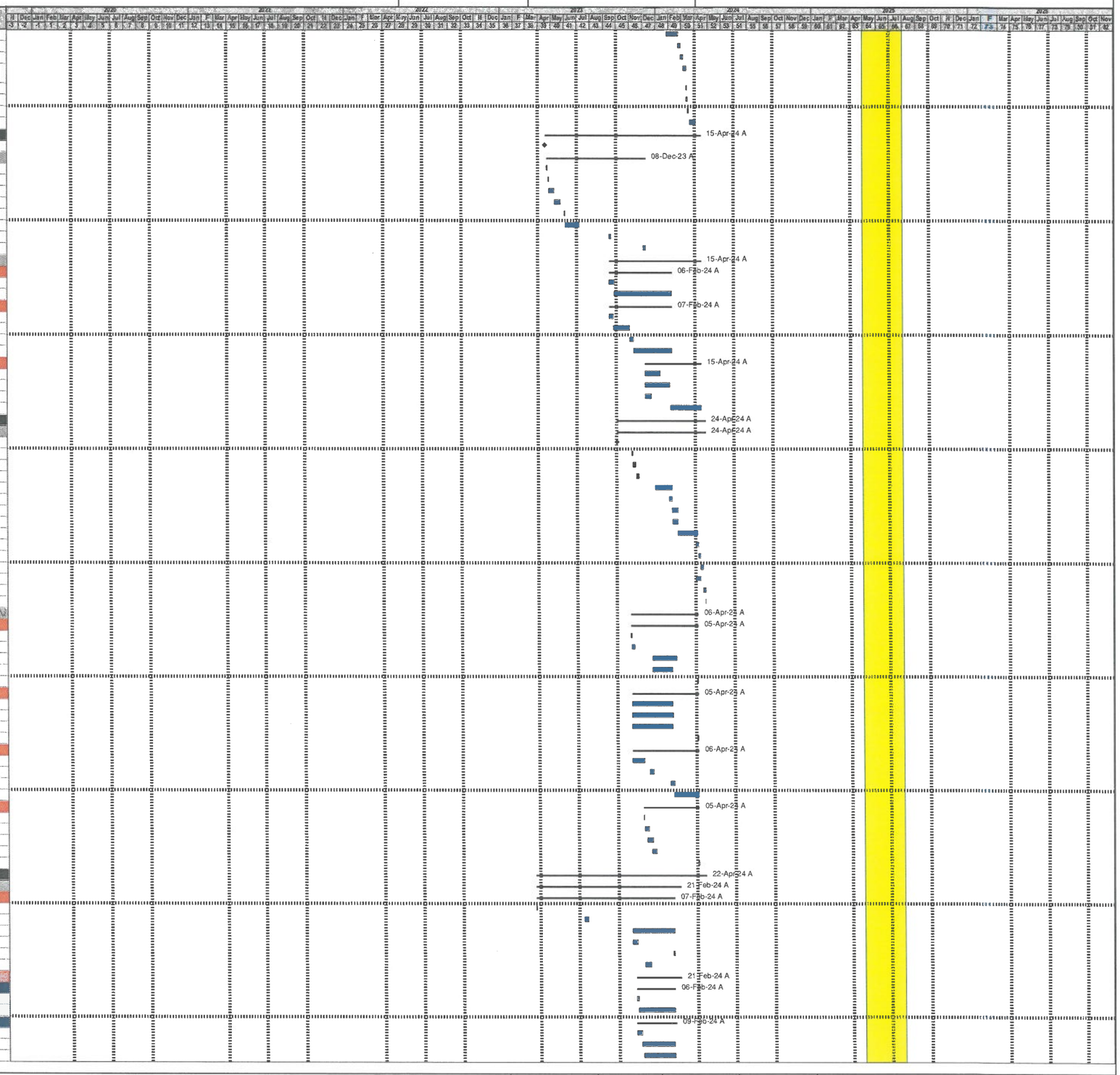
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	NA	Duration % Complete
P10-Tx2050	CLP Transformer Installation & T&C Works	31	27-Jan-24 A	22-Feb-24 A		2	100%
P10-Tx2051	Excavation for external cable duct and draw pit	7	23-Feb-24 A	28-Feb-24 A			100%
P10-Tx2052	Cable laying at external cable duct and draw pit	7	29-Feb-24 A	06-Mar-24 A			100%
P10-Tx2053	Connection pit excavation and power outage for electricity connection (from external source to Tx & Switch Rm)	8	06-Mar-24 A	12-Mar-24 A			100%
P10-Tx2054	Installation of CLP electricity meter	1	13-Mar-24 A	13-Mar-24 A			100%
P10-Tx2054.1	Backfilling of excavation pit	7	13-Mar-24 A	15-Mar-24 A			100%
P10-Tx2055	Energization of Tx Equipment	2	15-Mar-24 A	17-Mar-24 A		2	100%
P10-Tx2060	CLP Meter Installation (Permenant Power On)	6	21-Mar-24 A	03-Apr-24 A		2	100%
FS Control Room		283	18-Apr-23 A	15-Apr-24 A			100%
P10-GFFS1020	Access Date of G/F FS control Room Fitting Out	0	18-Apr-23 A				100%
ABWF		21	22-Apr-23 A	08-Dec-23 A			100%
P10-GFFS1050	Setting Out	2	22-Apr-23 A	24-Apr-23 A		0	100%
P10-GFFS1060	Erect Scaffolding for wall and ceiling finishes	2	26-Apr-23 A	27-Apr-23 A		0	100%
P10-GFFS1070	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	27-Apr-23 A	09-May-23 A		0	100%
P10-GFFS1080	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	8	10-May-23 A	23-May-23 A		0	100%
P10-GFFS1090	Floor Screeding	2	02-Jun-23 A	03-Jun-23 A		0	100%
P10-GFFS1100	Concrete Plinth Casting and finishes	8	05-Jun-23 A	07-Jul-23 A		0	100%
P10-GFFS1110	Access Panel Installation to FS control Room	4	15-Sep-23 A	19-Sep-23 A		0	100%
P10-GFFS1120	Floor epoxy Painting & door installation	4	04-Dec-23 A	08-Dec-23 A		0	100%
BS Works		112	15-Sep-23 A	15-Apr-24 A			100%
MVAC		23	15-Sep-23 A	06-Feb-24 A			100%
P10-GFFS1150	Setting out for all equipment / MOS inspection	3	15-Sep-23 A	26-Sep-23 A		0	100%
P10-GFFS1160	Air Duct installation	18	27-Sep-23 A	06-Feb-24 A		0	100%
EL		73	15-Sep-23 A	07-Feb-24 A			100%
P10-GFFS1170	Setting out for all equipment / MOS inspection	10	15-Sep-23 A	25-Sep-23 A		0	100%
P10-GFFS1180	Installation of cable containment	5	25-Sep-23 A	01-Nov-23 A		0	100%
P10-GFFS1190	Cable wiring	10	01-Nov-23 A	11-Nov-23 A		0	100%
P10-GFFS1200	Installation of Lighting fitting and small power provision	24	11-Nov-23 A	07-Feb-24 A		0	100%
FS		103	07-Dec-23 A	15-Apr-24 A			100%
P10-GFFS1130	FS Piping, cable containment Installation	30	07-Dec-23 A	11-Jan-24 A		0	100%
P10-GFFS1140	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	07-Dec-23 A	01-Feb-24 A		0	100%
P10-GFFS1210	FS Control Panel / Direct Link Installation	15	07-Dec-23 A	22-Dec-23 A		0	100%
P10-GFFS1220	T&C of FS Control Euipments	15	05-Feb-24 A	15-Apr-24 A		0	100%
Ground Floor Male / Female / U-Toilet		246	02-Oct-23 A	24-Apr-24 A			100%
ABWF		246	02-Oct-23 A	24-Apr-24 A			100%
P10-GT1000	Access Date of G/F Toilet Fitting Out	0	02-Oct-23 A				100%
P10-GT1010	Site Survey and setting out	3	06-Nov-23 A	08-Nov-23 A			100%
P10-GT1020	Block Wall Erection	6	09-Nov-23 A	15-Nov-23 A			100%
P10-GT1040	Waterproofing & testing	7	16-Nov-23 A	23-Nov-23 A			100%
P10-GT1050	Protected screed	3	30-Dec-23 A	07-Feb-24 A			100%
P10-GT1060	Ceiling Grid Installation	5	01-Feb-24 A	07-Feb-24 A			100%
P10-GT1070	Wall finishes and furring wall installation	9	07-Feb-24 A	20-Feb-24 A			100%
P10-GT1080	Floor finishes with protection	10	08-Feb-24 A	20-Feb-24 A			100%
P10-GT1085	Ceiling Board Installation	5	20-Feb-24 A	05-Apr-24 A			100%
P10-GT1090	Vanity Counter Installation	5	02-Apr-24 A	08-Apr-24 A			100%
P10-GT1100	Door Installation	3	08-Apr-24 A	12-Apr-24 A			100%
P10-GT1110	Cubical installation	7	12-Apr-24 A	19-Apr-24 A			100%
P10-GT1120	Sanitary fitting installation	9	02-Apr-24 A	12-Apr-24 A			100%
P10-GT1130	Signage, accessories, air grille installation	5	19-Apr-24 A	24-Apr-24 A			100%
P10-GT1140	Inspection & cleaning	1	24-Apr-24 A	24-Apr-24 A			100%
BS Works		172	01-Nov-23 A	06-Apr-24 A			100%
MVAC		135	01-Nov-23 A	05-Apr-24 A			100%
P10-GT1030	Setting out for all equipment / Conduit / Switches	2	01-Nov-23 A	04-Nov-23 A			100%
P10-GT1150	MEP Conduit embedment	6	04-Nov-23 A	10-Nov-23 A		0	100%
P10-GT1160	Air Duct installation	16	22-Dec-23 A	14-Feb-24 A		0	100%
P10-GT1300	MVAC unit, Exhaust fans installation	16	22-Dec-23 A	05-Feb-24 A		0	100%
P10-GT1310	T&C of MVAC system	2	03-Apr-24 A	05-Apr-24 A		0	100%
FS		135	04-Nov-23 A	05-Apr-24 A			100%
P10-GT1180	FS Piping, cable containment Installation	9	04-Nov-23 A	05-Feb-24 A		0	100%
P10-GT1190	FS Sprinkler pipe overhead with ceiling installation	9	04-Nov-23 A	07-Feb-24 A		0	100%
P10-GT1195	FS Sprinkler head, Alarm smoke detector, heat detector installation	9	04-Nov-23 A	05-Feb-24 A		0	100%
P10-GT1200	T&C of FS system	2	03-Apr-24 A	05-Apr-24 A		0	100%
PD		90	04-Nov-23 A	06-Apr-24 A			100%
P10-GT1210	Setting out for pipeworks / San fit, & Installation of pipework at ceiling level	9	04-Nov-23 A	02-Dec-23 A		0	100%
P10-GT1220	Installation of pipework connection to underground drainage	9	14-Dec-23 A	23-Dec-23 A		0	100%
P10-GT1230	Installation of pipework connection to sanitary fitting	9	01-Feb-24 A	09-Feb-24 A		0	100%
P10-GT1240	T&C of PD system	2	09-Feb-24 A	06-Apr-24 A		0	100%
EL		172	30-Nov-23 A	05-Apr-24 A			100%
P10-GT1250	Setting out for all equipment / MOS inspection	2	30-Nov-23 A	01-Dec-23 A		0	100%
P10-GT1260	Installation of cable containment	8	02-Dec-23 A	11-Dec-23 A		0	100%
P10-GT1270	Cable wiring	12	08-Dec-23 A	21-Dec-23 A		0	100%
P10-GT1280	Installation of Lighting fitting and small power provision	10	18-Dec-23 A	29-Dec-23 A		0	100%
P10-GT1290	T&C of Electrical System	2	03-Apr-24 A	05-Apr-24 A		0	100%
BOH (Back of House)		374	22-Mar-23 A	22-Apr-24 A			100%
Material Recovery		245	22-Mar-23 A	21-Feb-24 A			100%
ABWF		291	22-Mar-23 A	07-Feb-24 A			100%
P10-GF-MR1000	Setting Out	2	22-Mar-23 A	23-Mar-23 A		0	100%
P10-GF-MR1010	Erect Scaffolding for wall and ceiling finishes	2	12-Jul-23 A	21-Jul-23 A		0	100%
P10-GF-MR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	01-Nov-23 A	07-Feb-24 A		0	100%
P10-GF-MR1030	Wall Finishes (Wall plastering, tiling)	12	01-Nov-23 A	13-Nov-23 A		0	100%
P10-GF-MR1040	Floor Screeding	2	05-Feb-24 A	06-Feb-24 A		0	100%
P10-GF-MR1050	Floor quarry Tiles & door installation	12	01-Dec-23 A	14-Dec-23 A		0	100%
BS Works		67	11-Nov-23 A	21-Feb-24 A			100%
MVAC		21	11-Nov-23 A	06-Feb-24 A			100%
P10-GF-MR1080	Setting out for all equipment / MOS inspection	3	11-Nov-23 A	15-Nov-23 A		0	100%
P10-GF-MR1090	Air Duct installation	18	15-Nov-23 A	06-Feb-24 A		0	100%
EL		45	11-Nov-23 A	09-Feb-24 A			100%
P10-GF-MR1100	Setting out for all equipment / MOS inspection	10	11-Nov-23 A	22-Nov-23 A		0	100%
P10-GF-MR1110	Installation of cable containment	5	23-Nov-23 A	05-Feb-24 A		0	100%
P10-GF-MR1120	Cable wiring	10	27-Nov-23 A	07-Feb-24 A		0	100%



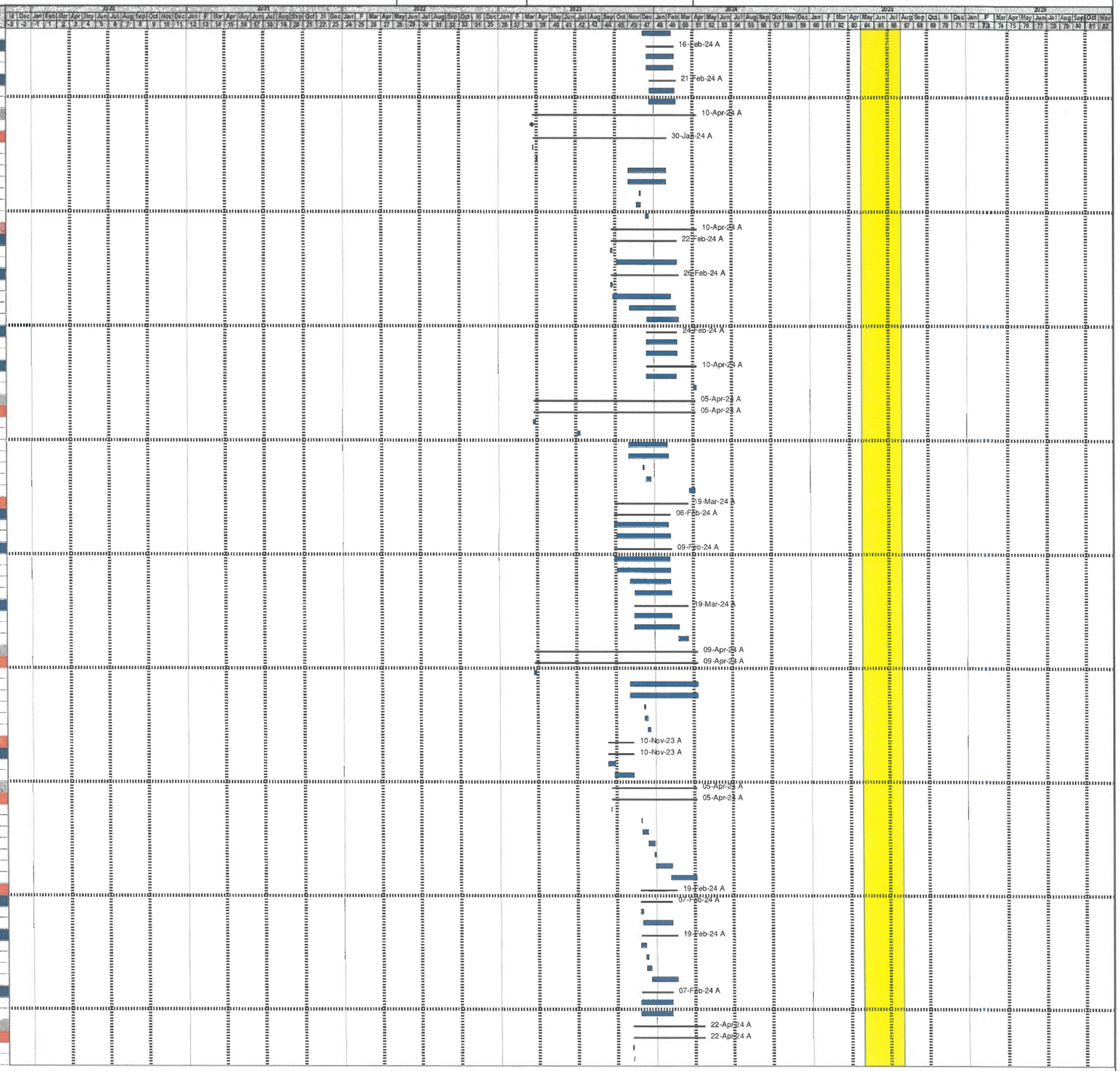
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-GF-MR1130	Installation of Lighting fitting and small power provision	24	05-Dec-23 A	09-Feb-24 A	0		100%
FS		43	14-Dec-23 A	16-Feb-24 A			100%
P10-GF-MR1060	FS Piping, cable containment Installation	30	14-Dec-23 A	16-Feb-24 A	0		100%
P10-GF-MR1070	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	14-Dec-23 A	14-Feb-24 A	0		100%
PD		20	21-Dec-23 A	21-Feb-24 A			100%
P10-GF-MR1140	Water piping works installation	15	21-Dec-23 A	17-Feb-24 A	0		100%
P10-GF-MR1150	Surface Channel formation	10	21-Dec-23 A	21-Feb-24 A	0		100%
Security Control Room		344	22-Mar-23 A	10-Apr-24 A			100%
P10-GFSC1190	Access Date of G/F security control Room Fitting Out	0	22-Mar-23 A				100%
ABWF		246	23-Mar-23 A	30-Jan-24 A			100%
P10-GFSC1030	Setting Out	2	23-Mar-23 A	24-Mar-23 A	0		100%
P10-GFSC1040	Erect Scaffolding for wall and ceiling finishes	2	01-Apr-23 A	03-Apr-23 A	0		100%
P10-GFSC1050	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	01-Nov-23 A	30-Jan-24 A	0		100%
P10-GFSC1060	Wall plastering	9	01-Nov-23 A	30-Jan-24 A	0		100%
P10-GFSC1070	Floor Screeding	2	28-Nov-23 A	30-Nov-23 A	0		100%
P10-GFSC1090	Wall Skim Coat and 1st Coat Painting	6	21-Nov-23 A	30-Nov-23 A	0		100%
P10-GFSC1100	Floor epoxy Painting & door installation	6	13-Dec-23 A	19-Dec-23 A	0		100%
BS Works		178	21-Sep-23 A	10-Apr-24 A			100%
MVAC		21	21-Sep-23 A	22-Feb-24 A			100%
P10-GFSC1130	Setting out for all equipment / MOS inspection	4	21-Sep-23 A	25-Sep-23 A	0		100%
P10-GFSC1140	Air Duct installation	18	05-Oct-23 A	22-Feb-24 A	0		100%
EL		94	21-Sep-23 A	26-Feb-24 A			100%
P10-GFSC1150	Setting out for all equipment / MOS inspection	10	21-Sep-23 A	25-Sep-23 A	0		100%
P10-GFSC1160	Installation of cable containment	5	25-Sep-23 A	08-Feb-24 A	0		100%
P10-GFSC1170	Cable wiring	10	03-Nov-23 A	20-Feb-24 A	0		100%
P10-GFSC1180	Installation of Lighting fitting and small power provision	18	14-Dec-23 A	26-Feb-24 A	0		100%
FS		21	14-Dec-23 A	24-Feb-24 A			100%
P10-GFSC1110	FS Piping, cable containment Installation	21	14-Dec-23 A	24-Feb-24 A	0		100%
P10-GFSC1120	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	14-Dec-23 A	24-Feb-24 A	0		100%
Security System		102	14-Dec-23 A	10-Apr-24 A			100%
P10-GFSC1210	Security System Installation	15	14-Dec-23 A	23-Feb-24 A	0		100%
P10-GFSC1220	T&C of Security System	6	03-Apr-24 A	10-Apr-24 A	0		100%
Main Distribution Frame Room		372	24-Mar-23 A	05-Apr-24 A			100%
ABWF		333	24-Mar-23 A	05-Apr-24 A			100%
P10-GF-MDF10(	Setting Out	2	24-Mar-23 A	28-Mar-23 A	0		100%
P10-GF-MDF10	Erect Scaffolding for wall and ceiling finishes	2	05-Jul-23 A	10-Jul-23 A	0		100%
P10-GF-MDF10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	01-Nov-23 A	31-Jan-24 A	0		100%
P10-GF-MDF10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	01-Nov-23 A	03-Feb-24 A	0		100%
P10-GF-MDF10	Floor Screeding	2	05-Dec-23 A	07-Dec-23 A	0		100%
P10-GF-MDF10	Floor epoxy Painting	10	13-Dec-23 A	23-Dec-23 A	0		100%
P10-GF-MDF11	Door installation	4	23-Mar-24 A	05-Apr-24 A	0		100%
BS Works		202	28-Sep-23 A	19-Mar-24 A			100%
MVAC		21	28-Sep-23 A	06-Feb-24 A			100%
P10-GF-MDF10	Setting out for all equipment / MOS inspection	3	28-Sep-23 A	01-Feb-24 A	0		100%
P10-GF-MDF10	Air Duct installation	18	04-Oct-23 A	06-Feb-24 A	0		100%
EL		66	28-Sep-23 A	09-Feb-24 A			100%
P10-GF-MDF11	Setting out for all equipment / MOS inspection	10	28-Sep-23 A	05-Feb-24 A	0		100%
P10-GF-MDF11	Installation of cable containment	5	05-Oct-23 A	06-Feb-24 A	0		100%
P10-GF-MDF11	Cable wiring	10	04-Nov-23 A	07-Feb-24 A	0		100%
P10-GF-MDF11	Installation of Lighting fitting and small power provision	24	15-Nov-23 A	09-Feb-24 A	0		100%
FS		160	14-Nov-23 A	19-Mar-24 A			100%
P10-GF-MDF10	FS Piping, cable containment Installation	30	14-Nov-23 A	09-Feb-24 A	0		100%
P10-GF-MDF10	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	14-Nov-23 A	27-Feb-24 A	0		100%
P10-GF-MDF11	FTNS telephone line and network installation	21	26-Feb-24 A	19-Mar-24 A	0		100%
Water Meter Cabinet		247	24-Mar-23 A	09-Apr-24 A			100%
ABWF		247	24-Mar-23 A	09-Apr-24 A			100%
P10-GF-WMC10	Setting Out	2	24-Mar-23 A	28-Mar-23 A	0		100%
P10-GF-WMC10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	01-Nov-23 A	09-Apr-24 A	0		100%
P10-GF-WMC10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	01-Nov-23 A	09-Apr-24 A	0		100%
P10-GF-WMC10	Floor Screeding	2	06-Dec-23 A	08-Dec-23 A	0		100%
P10-GF-WMC10	Double Leaf Door Installation to water meter cabinet	6	08-Dec-23 A	14-Dec-23 A	0		100%
P10-GF-WMC10	Floor epoxy Painting & door installation	6	14-Dec-23 A	20-Dec-23 A	0		100%
BS Works		24	12-Sep-23 A	10-Nov-23 A			100%
PD		24	12-Sep-23 A	10-Nov-23 A			100%
P10-GF-WMC1	Water piping works installation	15	12-Sep-23 A	27-Sep-23 A	0		100%
P10-GF-WMC1	Water Meter Installation	10	27-Sep-23 A	10-Nov-23 A	0		100%
Equipment Room		133	19-Sep-23 A	05-Apr-24 A			100%
ABWF		133	19-Sep-23 A	05-Apr-24 A			100%
P10-GFER1000	Setting Out	2	19-Sep-23 A	20-Sep-23 A	0		100%
P10-GFER1010	Erect Scaffolding for wall and ceiling finishes	2	28-Nov-23 A	29-Nov-23 A	0		100%
P10-GFER1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	01-Dec-23 A	14-Dec-23 A	0		100%
P10-GFER1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	14-Dec-23 A	28-Dec-23 A	0		100%
P10-GFER1040	Floor Screeding	2	28-Dec-23 A	30-Dec-23 A	0		100%
P10-GFER1050	Access Panel Installation	6	30-Dec-23 A	06-Feb-24 A	0		100%
P10-GFER1060	Floor epoxy Painting & door installation	6	06-Feb-24 A	05-Apr-24 A	0		100%
BS Works		44	25-Nov-23 A	19-Feb-24 A			100%
MVAC		21	25-Nov-23 A	07-Feb-24 A			100%
P10-GFER1090	Setting out for all equipment / MOS inspection	3	25-Nov-23 A	30-Nov-23 A	0		100%
P10-GFER1100	Air Duct installation	18	30-Nov-23 A	07-Feb-24 A	0		100%
EL		43	25-Nov-23 A	19-Feb-24 A			100%
P10-GFER1110	Setting out for all equipment / MOS inspection	10	25-Nov-23 A	07-Dec-23 A	0		100%
P10-GFER1120	Installation of cable containment	5	07-Dec-23 A	12-Dec-23 A	0		100%
P10-GFER1130	Cable wiring	10	09-Dec-23 A	19-Dec-23 A	0		100%
P10-GFER1140	Installation of Lighting fitting and small power provision	21	19-Dec-23 A	19-Feb-24 A	0		100%
FS		30	25-Nov-23 A	07-Feb-24 A			100%
P10-GFER1070	FS Piping, cable containment Installation	30	25-Nov-23 A	07-Feb-24 A	0		100%
P10-GFER1080	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	25-Nov-23 A	07-Feb-24 A	0		100%
Cleaners Store		149	06-Nov-23 A	22-Apr-24 A			100%
ABWF		149	06-Nov-23 A	22-Apr-24 A			100%
P10-GFCS1000	Setting Out	2	06-Nov-23 A	07-Nov-23 A	0		100%
P10-GFCS1010	Erect Scaffolding for wall and ceiling finishes	1	08-Nov-23 A	08-Nov-23 A	0		100%



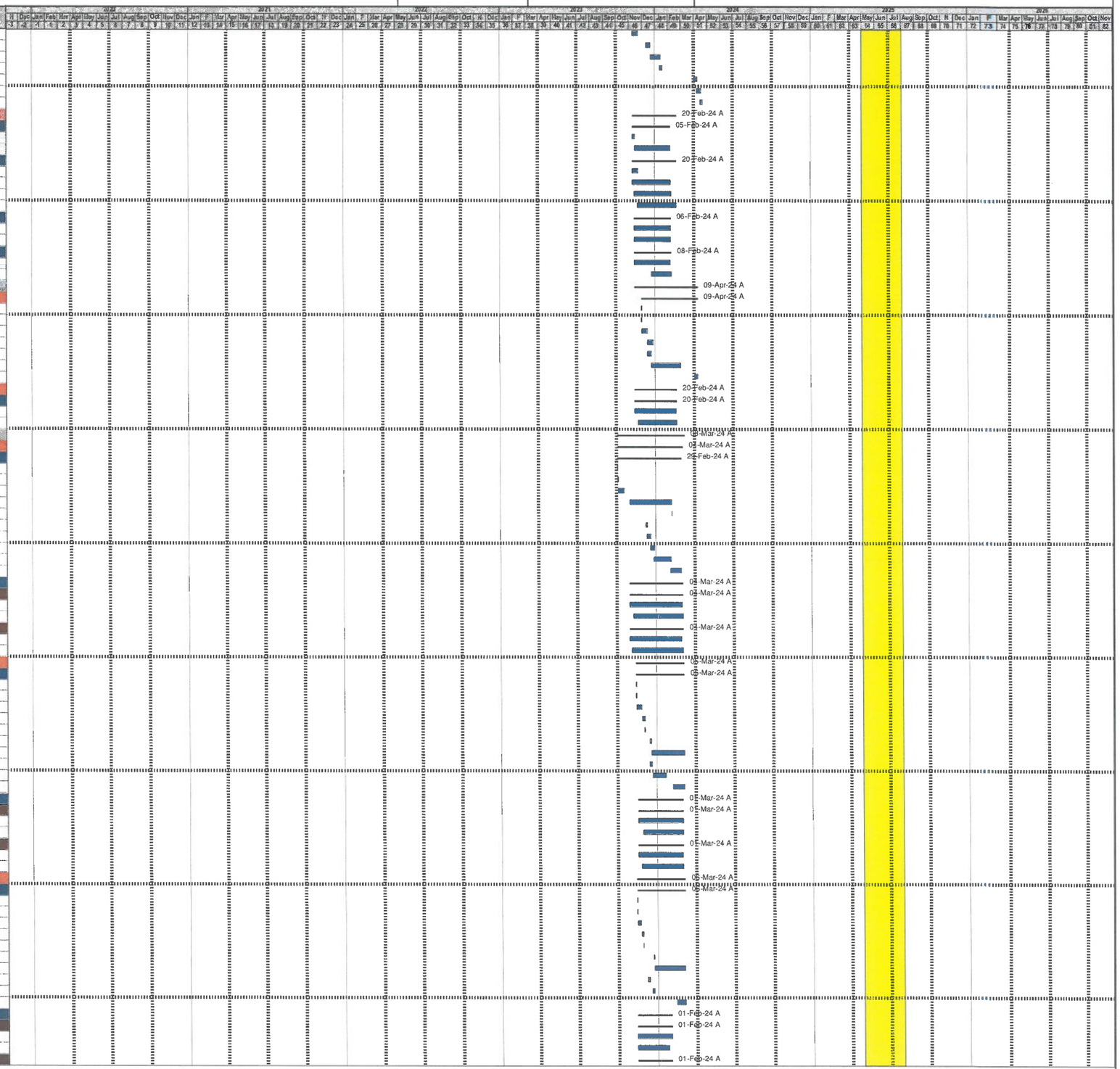
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TF1	Duration % Complete
P10-GFCS1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	09-Nov-23 A	22-Nov-23 A		0	100%
P10-GFCS1030	Floor Waterproofing, testing and Protective Screeding	12	11-Dec-23 A	22-Dec-23 A		0	100%
P10-GFCS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	10	22-Dec-23 A	13-Jan-24 A		0	100%
P10-GFCS1060	Ceiling Grid Installation	6	13-Jan-24 A	19-Jan-24 A		0	100%
P10-GFCS1070	Floor epoxy Painting	6	02-Apr-24 A	09-Apr-24 A		0	100%
P10-GFCS1180	Ceiling Board Installation	8	09-Apr-24 A	17-Apr-24 A		0	100%
P10-GFCS1190	Door Installation	4	17-Apr-24 A	22-Apr-24 A		0	100%
BS Works		50	10-Nov-23 A	20-Feb-24 A			100%
MVAC		15	10-Nov-23 A	05-Feb-24 A			100%
P10-GFCS1100	Setting out for all equipment / MOS inspection	3	10-Nov-23 A	14-Nov-23 A		0	100%
P10-GFCS1110	Air Duct installation	11	15-Nov-23 A	05-Feb-24 A		0	100%
EL		32	10-Nov-23 A	20-Feb-24 A			100%
P10-GFCS1120	Setting out for all equipment / MOS inspection	10	10-Nov-23 A	23-Nov-23 A		0	100%
P10-GFCS1130	Installation of cable containment	4	10-Nov-23 A	06-Feb-24 A		0	100%
P10-GFCS1140	Cable wiring	9	13-Nov-23 A	08-Feb-24 A		0	100%
P10-GFCS1150	Installation of Lighting fitting and small power provision	21	22-Nov-23 A	20-Feb-24 A		0	100%
FS		26	13-Nov-23 A	06-Feb-24 A			100%
P10-GFCS1080	FS Piping, cable containment Installation	13	13-Nov-23 A	06-Feb-24 A		0	100%
P10-GFCS1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	13	13-Nov-23 A	06-Feb-24 A		0	100%
PD		47	13-Nov-23 A	08-Feb-24 A			100%
P10-GFCS1160	Water piping works Installation	13	13-Nov-23 A	05-Feb-24 A		0	100%
P10-GFCS1170	Floor Drain Installation	9	23-Dec-23 A	08-Feb-24 A		0	100%
Maintenance Corridor		130	13-Nov-23 A	09-Apr-24 A			100%
ABWF		115	29-Nov-23 A	09-Apr-24 A			100%
P10-GF-MC1020	Setting Out	2	29-Nov-23 A	30-Nov-23 A		0	100%
P10-GF-MC1030	Erect Scaffolding for wall and ceiling finishes	2	30-Nov-23 A	01-Dec-23 A		0	100%
P10-GF-MC1040	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	01-Dec-23 A	14-Dec-23 A		0	100%
P10-GF-MC1050	Floor Waterproofing, testing and Protective Screeding	12	14-Dec-23 A	27-Dec-23 A		0	100%
P10-GF-MC1060	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	10	14-Dec-23 A	23-Dec-23 A		0	100%
P10-GF-MC1070	Access Panel Installation	6	23-Dec-23 A	29-Feb-24 A		0	100%
P10-GF-MC1080	Floor epoxy Painting	6	02-Apr-24 A	09-Apr-24 A		0	100%
BS Works		13	13-Nov-23 A	20-Feb-24 A			100%
PD		13	13-Nov-23 A	20-Feb-24 A			100%
P10-GF-MC1000	Water piping works Installation	9	13-Nov-23 A	19-Feb-24 A		0	100%
P10-GF-MC1010	Floor Drain Installation	5	21-Nov-23 A	20-Feb-24 A		0	100%
Staircase		153	03-Oct-23 A	06-Mar-24 A			100%
ST-02		116	03-Oct-23 A	04-Mar-24 A			100%
ABWF		116	03-Oct-23 A	29-Feb-24 A			100%
P10-GF-ST2-10	Setting Out	2	03-Oct-23 A	04-Oct-23 A		0	100%
P10-GF-ST2-10	Erect Scaffolding for wall and ceiling finishes	2	04-Oct-23 A	06-Oct-23 A		0	100%
P10-GF-ST2-10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	06-Oct-23 A	19-Oct-23 A		0	100%
P10-GF-ST2-10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	01-Nov-23 A	07-Feb-24 A		0	100%
P10-GF-ST2-10	Dismantle Scaffolding	1	08-Feb-24 A	08-Feb-24 A		0	100%
P10-GF-ST2-10	Staircase Screeding	2	09-Dec-23 A	12-Dec-23 A		0	100%
P10-GF-ST2-10	Staircase Tiling / Tactile Installation	8	12-Dec-23 A	20-Dec-23 A		0	100%
P10-GF-ST2-10	Staircase Handrail installation	6	20-Dec-23 A	28-Dec-23 A		0	100%
P10-GF-ST2-10	Staircase Wall Painting	6	28-Dec-23 A	05-Feb-24 A		0	100%
P10-GF-ST2-12	Staircase Door Installation	2	05-Feb-24 A	29-Feb-24 A		0	100%
BS Works		15	31-Oct-23 A	04-Mar-24 A			100%
PD		15	31-Oct-23 A	04-Mar-24 A			100%
P10-GF-ST2-1	Water piping works Installation	9	31-Oct-23 A	02-Mar-24 A		0	100%
P10-GF-ST2-1	Floor Drain Installation	5	10-Nov-23 A	04-Mar-24 A		0	100%
FS		13	31-Oct-23 A	04-Mar-24 A			100%
P10-GF-ST2-1	FS Piping, cable containment Installation	5	31-Oct-23 A	01-Mar-24 A		0	100%
P10-GF-ST2-1	FS Sprinkler head, Alarm smoke detector, heat detector installation	7	06-Nov-23 A	04-Mar-24 A		0	100%
ST-03		83	13-Nov-23 A	05-Mar-24 A			100%
ABWF		83	13-Nov-23 A	05-Mar-24 A			100%
P10-GF-ST3-10	Setting Out	2	13-Nov-23 A	14-Nov-23 A		0	100%
P10-GF-ST3-10	Erect Scaffolding for wall and ceiling finishes	2	14-Nov-23 A	15-Nov-23 A		0	100%
P10-GF-ST3-10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	15-Nov-23 A	27-Nov-23 A		0	100%
P10-GF-ST3-10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	28-Nov-23 A	04-Dec-23 A		0	100%
P10-GF-ST3-10	Dismantle Scaffolding	1	04-Dec-23 A	04-Dec-23 A		0	100%
P10-GF-ST3-10	Staircase Screeding	2	16-Dec-23 A	19-Dec-23 A		0	100%
P10-GF-ST3-10	Staircase Tiling / Tactile Installation	8	19-Dec-23 A	05-Mar-24 A		0	100%
P10-GF-ST3-10	Staircase Handrail installation	6	15-Dec-23 A	21-Dec-23 A		0	100%
P10-GF-ST3-10	Staircase Wall Painting	6	22-Dec-23 A	22-Jan-24 A		0	100%
P10-GF-ST3-10	Staircase Door Installation	2	09-Feb-24 A	05-Mar-24 A		0	100%
BS Works		15	18-Nov-23 A	01-Mar-24 A			100%
PD		15	18-Nov-23 A	01-Mar-24 A			100%
P10-GF-ST3-1	Water piping works Installation	9	18-Nov-23 A	01-Mar-24 A		0	100%
P10-GF-ST3-1	Floor Drain Installation	5	29-Nov-23 A	01-Mar-24 A		0	100%
FS		13	18-Nov-23 A	01-Mar-24 A			100%
P10-GF-ST3-1	FS Piping, cable containment Installation	5	18-Nov-23 A	29-Feb-24 A		0	100%
P10-GF-ST3-1	FS Sprinkler head, Alarm smoke detector, heat detector installation	7	25-Nov-23 A	01-Mar-24 A		0	100%
ST-04		85	13-Nov-23 A	06-Mar-24 A			100%
ABWF		85	13-Nov-23 A	06-Mar-24 A			100%
P10-GF-ST4-10	Setting Out	2	13-Nov-23 A	14-Nov-23 A		0	100%
P10-GF-ST4-10	Erect Scaffolding for wall and ceiling finishes	2	14-Nov-23 A	15-Nov-23 A		0	100%
P10-GF-ST4-10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	15-Nov-23 A	23-Nov-23 A		0	100%
P10-GF-ST4-10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	8	24-Nov-23 A	28-Nov-23 A		0	100%
P10-GF-ST4-10	Dismantle Scaffolding	1	28-Nov-23 A	28-Nov-23 A		0	100%
P10-GF-ST4-10	Staircase Screeding	2	22-Dec-23 A	23-Dec-23 A		0	100%
P10-GF-ST4-10	Staircase Tiling / Tactile Installation	8	23-Dec-23 A	04-Mar-24 A		0	100%
P10-GF-ST4-10	Staircase Handrail installation	6	07-Dec-23 A	13-Dec-23 A		0	100%
P10-GF-ST4-10	Staircase Wall Painting	6	18-Dec-23 A	23-Dec-23 A		0	100%
P10-GF-ST4-10	Staircase Door Installation	2	14-Feb-24 A	06-Mar-24 A		0	100%
BS Works		35	14-Nov-23 A	01-Feb-24 A			100%
PD		35	14-Nov-23 A	01-Feb-24 A			100%
P10-GF-ST4-1	Water piping works Installation	9	14-Nov-23 A	01-Feb-24 A		0	100%
P10-GF-ST4-1	Floor Drain Installation	5	14-Nov-23 A	26-Jan-24 A		0	100%
FS		33	14-Nov-23 A	01-Feb-24 A			100%



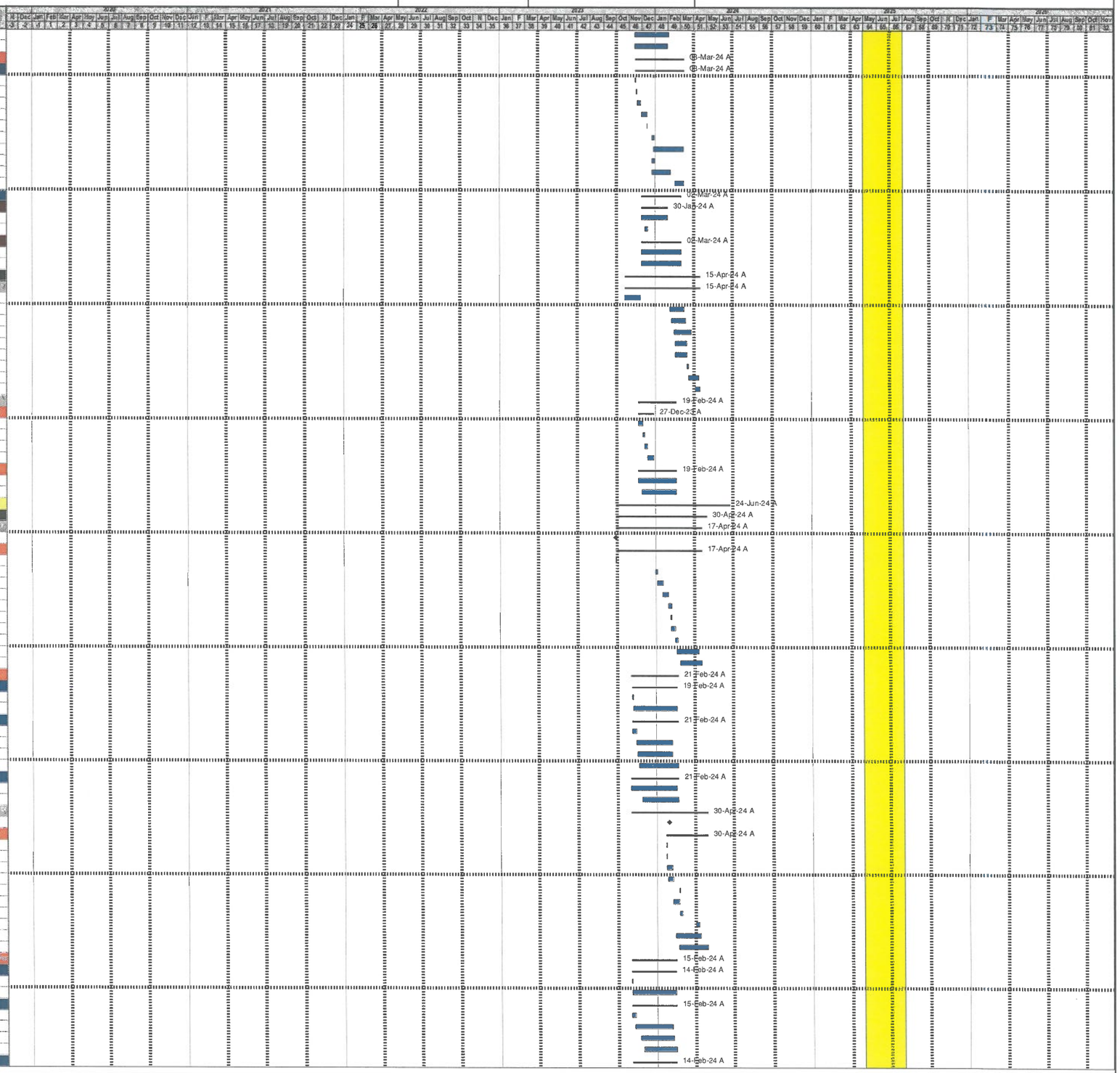
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-GF-ST4-1	FS Piping, cable containment Installation	5	14-Nov-23 A	01-Feb-24 A		0	100%
P10-GF-ST4-1	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	14-Nov-23 A	29-Jan-24 A		0	100%
ST-05		85	15-Nov-23 A	08-Mar-24 A			100%
ABWF		85	15-Nov-23 A	08-Mar-24 A			100%
P10-GF-ST5-10	Setting Out	2	15-Nov-23 A	16-Nov-23 A		0	100%
P10-GF-ST5-10	Erect Scaffolding for wall and ceiling finishes	2	17-Nov-23 A	18-Nov-23 A		0	100%
P10-GF-ST5-10	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	20-Nov-23 A	28-Nov-23 A		0	100%
P10-GF-ST5-10	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	30-Nov-23 A	12-Dec-23 A		0	100%
P10-GF-ST5-10	Dismantle Scaffolding	1	13-Dec-23 A	13-Dec-23 A		0	100%
P10-GF-ST5-10	Staircase Screeding	2	23-Dec-23 A	28-Dec-23 A		0	100%
P10-GF-ST5-10	Staircase Tiling / Tactile Installation	8	28-Dec-23 A	07-Mar-24 A		0	100%
P10-GF-ST5-10	Staircase Handrail installation	6	23-Dec-23 A	30-Dec-23 A		0	100%
P10-GF-ST5-10	Staircase Wall Painting	6	23-Dec-23 A	05-Feb-24 A		0	100%
P10-GF-ST5-10	Staircase Door Installation	2	16-Feb-24 A	08-Mar-24 A		0	100%
BS Works		9	29-Nov-23 A	02-Mar-24 A			100%
PD		9	29-Nov-23 A	30-Jan-24 A			100%
P10-GF-ST5-1	Water piping works Installation	9	29-Nov-23 A	30-Jan-24 A		0	100%
P10-GF-ST5-1	Floor Drain Installation	5	07-Dec-23 A	14-Dec-23 A		0	100%
FS		5	29-Nov-23 A	02-Mar-24 A			100%
P10-GF-ST5-1	FS Piping, cable containment Installation	5	29-Nov-23 A	01-Mar-24 A		0	100%
P10-GF-ST5-1	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	30-Nov-23 A	02-Mar-24 A		0	100%
External wall and External Area		154	21-Oct-23 A	15-Apr-24 A			100%
ABWF		154	21-Oct-23 A	15-Apr-24 A			100%
P10-GF-EXT1000	Erection of external scaffolding	25	21-Oct-23 A	27-Nov-23 A		3	100%
P10-GF-EXT1010	Waterproofing & Window / Louvre Glazing Works	28	05-Feb-24 A	08-Mar-24 A		6	100%
P10-GF-EXT1020	Aluminium Baffle Ceiling Grid Installation	28	08-Feb-24 A	12-Mar-24 A		6	100%
P10-GF-EXT1030	Wooden Fence Installation	40	14-Feb-24 A	26-Mar-24 A		6	100%
P10-GF-EXT1040	External wall Painting and Metal Grilles Installation	35	17-Feb-24 A	15-Mar-24 A		3	100%
P10-GF-EXT1050	Aluminium Baffle Ceiling Board Installation	35	17-Feb-24 A	15-Mar-24 A		3	100%
P10-GF-EXT1060	Removal of external wall scaffolding	4	15-Mar-24 A	19-Mar-24 A		2	100%
P10-GF-EXT1070	Eco Pavers Laying / Stainless Steel Tactile	20	19-Mar-24 A	12-Apr-24 A		2	100%
P10-GF-EXT1080	Staircase Finishes and door installation	10	04-Apr-24 A	15-Apr-24 A		2	100%
BS Works		28	22-Nov-23 A	19-Feb-24 A			100%
EL		28	22-Nov-23 A	27-Dec-23 A			100%
P10-GF-EXT1130	Setting out for all equipment / MOS inspection	6	22-Nov-23 A	02-Dec-23 A		0	100%
P10-GF-EXT1140	Installation of cable containment	4	02-Dec-23 A	06-Dec-23 A		0	100%
P10-GF-EXT1150	Cable wiring	9	06-Dec-23 A	13-Dec-23 A		0	100%
P10-GF-EXT1160	Installation of Lighting fitting and small power provision	9	13-Dec-23 A	27-Dec-23 A		0	100%
FS		21	22-Nov-23 A	19-Feb-24 A			100%
P10-GF-EXT1090	FS Piping, cable containment Installation	13	22-Nov-23 A	19-Feb-24 A		0	100%
P10-GF-EXT1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	13	30-Nov-23 A	19-Feb-24 A		0	100%
1st Floor		258	28-Sep-23 A	24-Jun-24 A			100%
Zone 1		170	28-Sep-23 A	30-Apr-24 A			100%
Multi Purpose Room 1 & 2		143	28-Sep-23 A	17-Apr-24 A			100%
P10-1FMP-1000	Access Date of 1/FMulti Purpose Room (1&2) Fitting Out	0	28-Sep-23 A				100%
ABWF		143	28-Sep-23 A	17-Apr-24 A			100%
P10-1F-MP1010	Setting Out	2	28-Sep-23 A	29-Sep-23 A		0	100%
P10-1F-MP1020	Erect Scaffolding for wall and ceiling finishes	2	30-Dec-23 A	04-Jan-24 A		0	100%
P10-1F-MP1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	04-Jan-24 A	17-Jan-24 A		0	100%
P10-1F-MP1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	17-Jan-24 A	30-Jan-24 A		0	100%
P10-1F-MP1060	Timber Flooring	12	30-Jan-24 A	06-Feb-24 A		0	100%
P10-1F-MP1061	Floor Screeding	2	05-Feb-24 A	06-Feb-24 A		0	100%
P10-1F-MP1070	Ceiling Grid Installation	6	06-Feb-24 A	15-Feb-24 A		0	100%
P10-1F-MP1080	Plastic Laminate / Glass Partition Wall Installation	6	15-Feb-24 A	21-Feb-24 A		0	100%
P10-1F-MP1170	Ceiling Board Installation	8	19-Feb-24 A	11-Apr-24 A		0	100%
P10-1F-MP1180	Movable Partition / Glass Door Installation	8	27-Feb-24 A	17-Apr-24 A		0	100%
BS Works		43	01-Nov-23 A	21-Feb-24 A			100%
MVAC		18	06-Nov-23 A	19-Feb-24 A			100%
P10-1F-MP1110	Setting out for all equipment / MOS inspection	3	06-Nov-23 A	08-Nov-23 A		0	100%
P10-1F-MP1120	Air Duct installation	16	08-Nov-23 A	19-Feb-24 A		0	100%
EL		41	06-Nov-23 A	21-Feb-24 A			100%
P10-1F-MP1130	Setting out for all equipment / MOS inspection	9	06-Nov-23 A	15-Nov-23 A		0	100%
P10-1F-MP1140	Installation of cable containment	4	15-Nov-23 A	06-Feb-24 A		0	100%
P10-1F-MP1150	Cable wiring	9	17-Nov-23 A	07-Feb-24 A		0	100%
P10-1F-MP1160	Installation of Lighting fitting and small power provision	21	22-Nov-23 A	21-Feb-24 A		0	100%
FS		43	01-Nov-23 A	21-Feb-24 A			100%
P10-1F-MP1090	FS Piping, cable containment Installation	18	01-Nov-23 A	17-Feb-24 A		0	100%
P10-1F-MP1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	18	28-Nov-23 A	21-Feb-24 A		0	100%
Storage Room		145	01-Nov-23 A	30-Apr-24 A			100%
P10-1F-SR0900	Access Date of 1/FStorage Room Fitting Out	0	30-Jan-24 A				100%
ABWF		145	23-Jan-24 A	30-Apr-24 A			100%
P10-1F-SR1000	Setting Out	2	23-Jan-24 A	24-Jan-24 A		0	100%
P10-1F-SR1010	Erect Scaffolding for wall and ceiling finishes	2	24-Jan-24 A	25-Jan-24 A		0	100%
P10-1F-SR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	25-Jan-24 A	07-Feb-24 A		0	100%
P10-1F-SR1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	27-Jan-24 A	08-Feb-24 A		0	100%
P10-1F-SR1040	Floor Screeding	2	23-Feb-24 A	24-Feb-24 A		0	100%
P10-1F-SR1050	Timber Flooring	12	08-Feb-24 A	23-Feb-24 A		0	100%
P10-1F-SR1060	Ceiling Grid Installation	6	24-Feb-24 A	01-Mar-24 A		0	100%
P10-1F-SR1070	Plastic Laminate Installation	6	02-Apr-24 A	09-Apr-24 A		0	100%
P10-1F-SR1160	Ceiling Board Installation	8	14-Feb-24 A	12-Apr-24 A		0	100%
P10-1F-SR1170	Movable Partition / Glass Door Installation	8	22-Feb-24 A	30-Apr-24 A		0	100%
BS Works		48	01-Nov-23 A	15-Feb-24 A			100%
MVAC		18	01-Nov-23 A	14-Feb-24 A			100%
P10-1F-SR1100	Setting out for all equipment / MOS inspection	3	01-Nov-23 A	03-Nov-23 A		0	100%
P10-1F-SR1110	Air Duct installation	16	03-Nov-23 A	14-Feb-24 A		0	100%
EL		48	01-Nov-23 A	15-Feb-24 A			100%
P10-1F-SR1120	Setting out for all equipment / MOS inspection	10	01-Nov-23 A	10-Nov-23 A		0	100%
P10-1F-SR1130	Installation of cable containment	4	10-Nov-23 A	06-Feb-24 A		0	100%
P10-1F-SR1140	Cable wiring	9	23-Nov-23 A	08-Feb-24 A		0	100%
P10-1F-SR1150	Installation of Lighting fitting and small power provision	21	29-Nov-23 A	15-Feb-24 A		0	100%
FS		33	03-Nov-23 A	14-Feb-24 A			100%



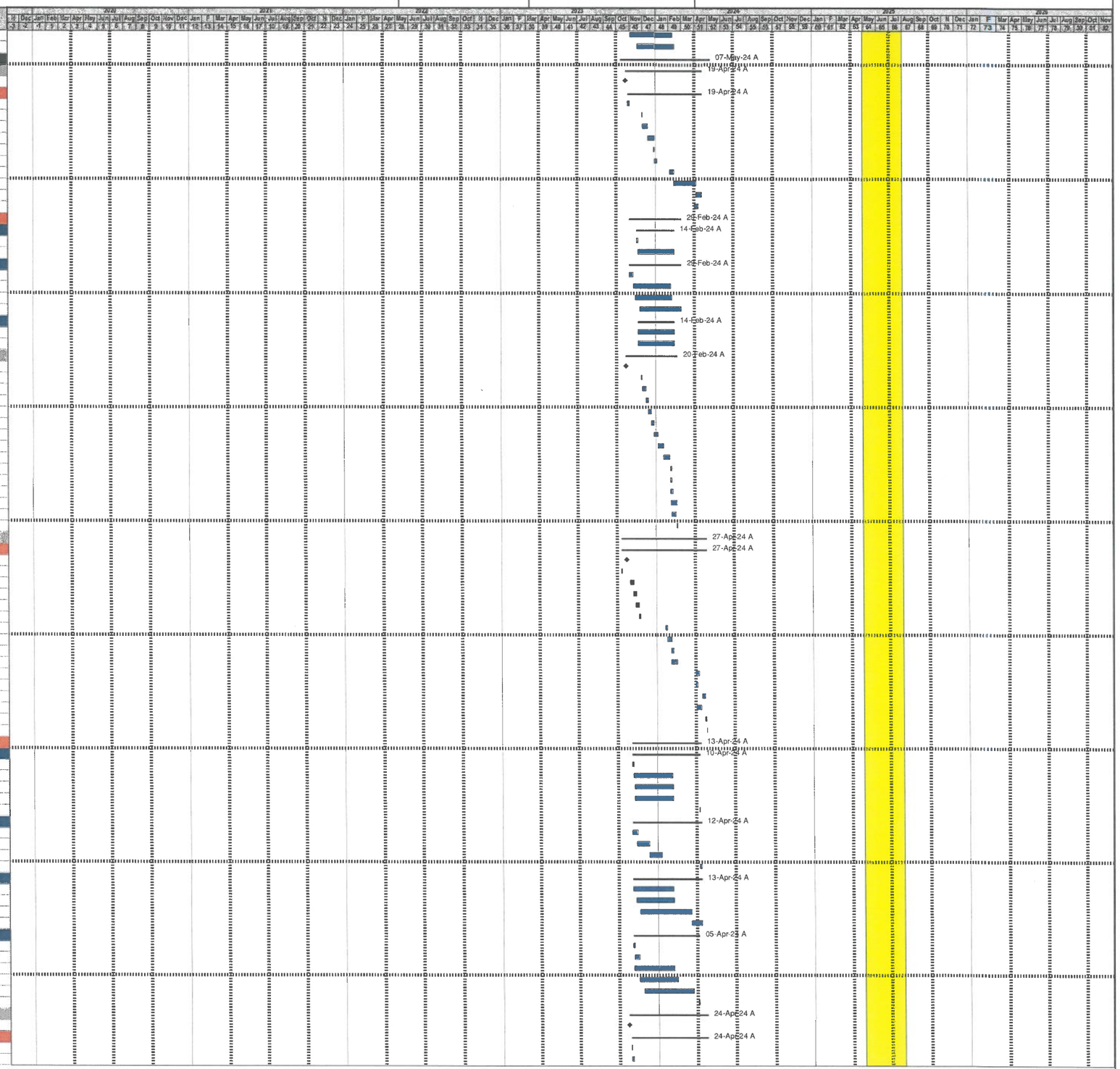
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-1F-SR1080	FS Piping, cable containment Installation	18	03-Nov-23 A	09-Feb-24 A	0		100%
P10-1F-SR1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	18	20-Nov-23 A	14-Feb-24 A	0		100%
Zone 2		186	11-Oct-23 A	07-May-24 A			100%
Workshop		179	23-Oct-23 A	19-Apr-24 A			100%
P10-1F-WS1000	Access Date of 1/F Workshop & Printer Room Fitting Out	0	23-Oct-23 A				100%
ABWF		155	28-Oct-23 A	19-Apr-24 A			100%
P10-1F-WS1010	Setting Out	2	28-Oct-23 A	01-Nov-23 A	0		100%
P10-1F-WS1020	Erect Scaffolding for wall and ceiling finishes	2	01-Dec-23 A	02-Dec-23 A	0		100%
P10-1F-WS1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	02-Dec-23 A	14-Dec-23 A	0		100%
P10-1F-WS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	14-Dec-23 A	28-Dec-23 A	0		100%
P10-1F-WS1050	Floor Screeding	2	28-Dec-23 A	29-Dec-23 A	0		100%
P10-1F-WS1070	Ceiling Grid Installation	6	29-Dec-23 A	05-Jan-24 A	0		100%
P10-1F-WS1080	Plastic Laminate Installation	6	05-Feb-24 A	14-Feb-24 A	0		100%
P10-1F-WS1170	Ceiling Board Installation	8	14-Feb-24 A	06-Apr-24 A	0		100%
P10-1F-WS1175	Raised Floor Installation	12	06-Apr-24 A	19-Apr-24 A	0		100%
P10-1F-WS1180	Cabinet Installation	8	02-Apr-24 A	11-Apr-24 A	0		100%
BS Works		46	01-Nov-23 A	29-Feb-24 A			100%
MVAC		18	18-Nov-23 A	14-Feb-24 A			100%
P10-1F-WS1110	Setting out for all equipment / MOS inspection	3	18-Nov-23 A	21-Nov-23 A	0		100%
P10-1F-WS1120	Air Duct installation	16	21-Nov-23 A	14-Feb-24 A	0		100%
EL		46	01-Nov-23 A	29-Feb-24 A			100%
P10-1F-WS1130	Setting out for all equipment / MOS inspection	10	01-Nov-23 A	10-Nov-23 A	0		100%
P10-1F-WS1140	Installation of cable containment	4	11-Nov-23 A	05-Feb-24 A	0		100%
P10-1F-WS1150	Cable wiring	9	15-Nov-23 A	08-Feb-24 A	0		100%
P10-1F-WS1160	Installation of Lighting fitting and small power provision	21	25-Nov-23 A	29-Feb-24 A	0		100%
FS		18	21-Nov-23 A	14-Feb-24 A			100%
P10-1F-WS1090	FS Piping, cable containment Installation	18	21-Nov-23 A	14-Feb-24 A	0		100%
P10-1F-WS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	18	21-Nov-23 A	14-Feb-24 A	0		100%
Pantry		157	23-Oct-23 A	20-Feb-24 A			100%
P10-PTRY-1000	Access Date of Pantry Fitting Out	0	23-Oct-23 A				100%
P10-PTRY-1010	Site Survey and setting out	2	28-Nov-23 A	29-Nov-23 A			100%
P10-PTRY-1020	Block Wall Erection	7	01-Dec-23 A	09-Dec-23 A			100%
P10-PTRY-1030	MEP Conduit embedment	5	09-Dec-23 A	14-Dec-23 A			100%
P10-PTRY-1040	Waterproofing & testing	7	14-Dec-23 A	21-Dec-23 A			100%
P10-PTRY-1050	Protected screed	3	21-Dec-23 A	27-Dec-23 A			100%
P10-PTRY-1060	Ceiling finishes	5	27-Dec-23 A	06-Jan-24 A			100%
P10-PTRY-1070	Floor finishes	9	06-Jan-24 A	19-Jan-24 A			100%
P10-PTRY-1080	Wall finishes	9	19-Jan-24 A	01-Feb-24 A			100%
P10-PTRY-1090	Cabinet installation	3	05-Feb-24 A	07-Feb-24 A			100%
P10-PTRY-1100	Door installation	3	05-Feb-24 A	07-Feb-24 A			100%
P10-PTRY-1110	Vanity Counter Installation	5	05-Feb-24 A	09-Feb-24 A			100%
P10-PTRY-1120	Sanitary fitting installation	9	06-Feb-24 A	19-Feb-24 A			100%
P10-PTRY-1130	Signage, false ceiling panels, Lighting and air grille installation	5	07-Feb-24 A	16-Feb-24 A			100%
P10-PTRY-1140	Inspection, T&C, cleaning	1	19-Feb-24 A	20-Feb-24 A			100%
Female Toilets / Disabled Toilet / Male Toilet / Baby Care Room		184	11-Oct-23 A	27-Apr-24 A			100%
ABWF		179	11-Oct-23 A	27-Apr-24 A			100%
P10-1T1000	Access Date of Toilet Fitting Out	0	23-Oct-23 A				100%
P10-1T1010	Site Survey and setting out	2	11-Oct-23 A	12-Oct-23 A			100%
P10-1T1020	Block Wall Erection	7	01-Nov-23 A	09-Nov-23 A			100%
P10-1T1030	MEP Conduit embedment	5	09-Nov-23 A	14-Nov-23 A			100%
P10-1T1040	Waterproofing & testing	7	14-Nov-23 A	21-Nov-23 A			100%
P10-1T1050	Protected screed	3	21-Nov-23 A	24-Nov-23 A			100%
P10-1T1060	Ceiling Grid Installation	5	22-Jan-24 A	26-Jan-24 A			100%
P10-1T1070	Floor finishes	10	26-Jan-24 A	05-Feb-24 A			100%
P10-1T1075	Ceiling Grid Installation	5	05-Feb-24 A	09-Feb-24 A			100%
P10-1T1080	Wall finishes	10	05-Feb-24 A	17-Feb-24 A			100%
P10-1T1090	Vanity Counter Installation	6	02-Apr-24 A	09-Apr-24 A			100%
P10-1T1100	Door installation	3	02-Apr-24 A	05-Apr-24 A			100%
P10-1T1110	Cubical installation	6	17-Apr-24 A	23-Apr-24 A			100%
P10-1T1120	Sanitaryfitting installation	10	02-Apr-24 A	13-Apr-24 A			100%
P10-1T1130	Signage, false ceiling panels, Lighting and air grille installation	4	23-Apr-24 A	26-Apr-24 A			100%
P10-1T1140	Inspection & cleaning	1	27-Apr-24 A	27-Apr-24 A			100%
BS Works		163	03-Nov-23 A	13-Apr-24 A			100%
MVAC		140	03-Nov-23 A	10-Apr-24 A			100%
P10-1T1150	Setting out for all equipment / Conduit / Switches	2	03-Nov-23 A	06-Nov-23 A			100%
P10-1T1180	MEP Conduit embedment	5	06-Nov-23 A	05-Feb-24 A	0		100%
P10-1T1190	Air Duct installation	16	10-Nov-23 A	06-Feb-24 A	0		100%
P10-1T1310	MVAC unit, Exhaust fans installation	16	10-Nov-23 A	08-Feb-24 A	0		100%
P10-1T1320	T&C of MVAC system	2	09-Apr-24 A	10-Apr-24 A	0		100%
FS		162	03-Nov-23 A	12-Apr-24 A			100%
P10-1T1160	FS Piping, cable containment Installation	10	03-Nov-23 A	14-Nov-23 A	0		100%
P10-1T1170	FS Sprinkler pipe overhead with ceiling installation	10	14-Nov-23 A	11-Dec-23 A	0		100%
P10-1T1290	FS Sprinkler head, Alarm smoke detector, heat detector installation	10	11-Dec-23 A	10-Jan-24 A	0		100%
P10-1T1300	T&C of FS system	4	09-Apr-24 A	12-Apr-24 A	0		100%
PD		125	03-Nov-23 A	13-Apr-24 A			100%
P10-1T1240	Setting out for pipeworks / San fit, & Installation of pipework at ceiling level	10	03-Nov-23 A	05-Feb-24 A	0		100%
P10-1T1250	Installation of pipework connection to drainage	10	11-Nov-23 A	06-Feb-24 A	0		100%
P10-1T1260	Installation of pipework connection to sanitary fitting	10	20-Nov-23 A	19-Mar-24 A	0		100%
P10-1T1270	T&C of PD system	2	19-Mar-24 A	13-Apr-24 A	0		100%
EL		136	03-Nov-23 A	05-Apr-24 A			100%
P10-1T1200	Setting out for all equipment / MOS inspection	2	03-Nov-23 A	06-Nov-23 A	0		100%
P10-1T1205	Electrical conduit installation	11	06-Nov-23 A	18-Nov-23 A	0		100%
P10-1T1210	Installation of cable containment	7	06-Nov-23 A	07-Feb-24 A	0		100%
P10-1T1220	Cable wiring	11	18-Nov-23 A	15-Feb-24 A	0		100%
P10-1T1230	Installation of Lighting fitting and small power provision	9	28-Nov-23 A	23-Mar-24 A	0		100%
P10-1T1280	T&C of Electrical System	2	03-Apr-24 A	05-Apr-24 A	0		100%
Senior Forestry Officer Office		184	23-Oct-23 A	24-Apr-24 A			100%
P10-1F-SFO1180	Access Date of 1/F SFO Office Fitting Out	0	23-Oct-23 A				100%
ABWF		159	28-Oct-23 A	24-Apr-24 A			100%
P10-1F-SFO1000	Setting Out	2	28-Oct-23 A	30-Oct-23 A	0		100%
P10-1F-SFO1010	Erect Scaffolding for wall and ceiling finishes	2	30-Oct-23 A	02-Nov-23 A	0		100%



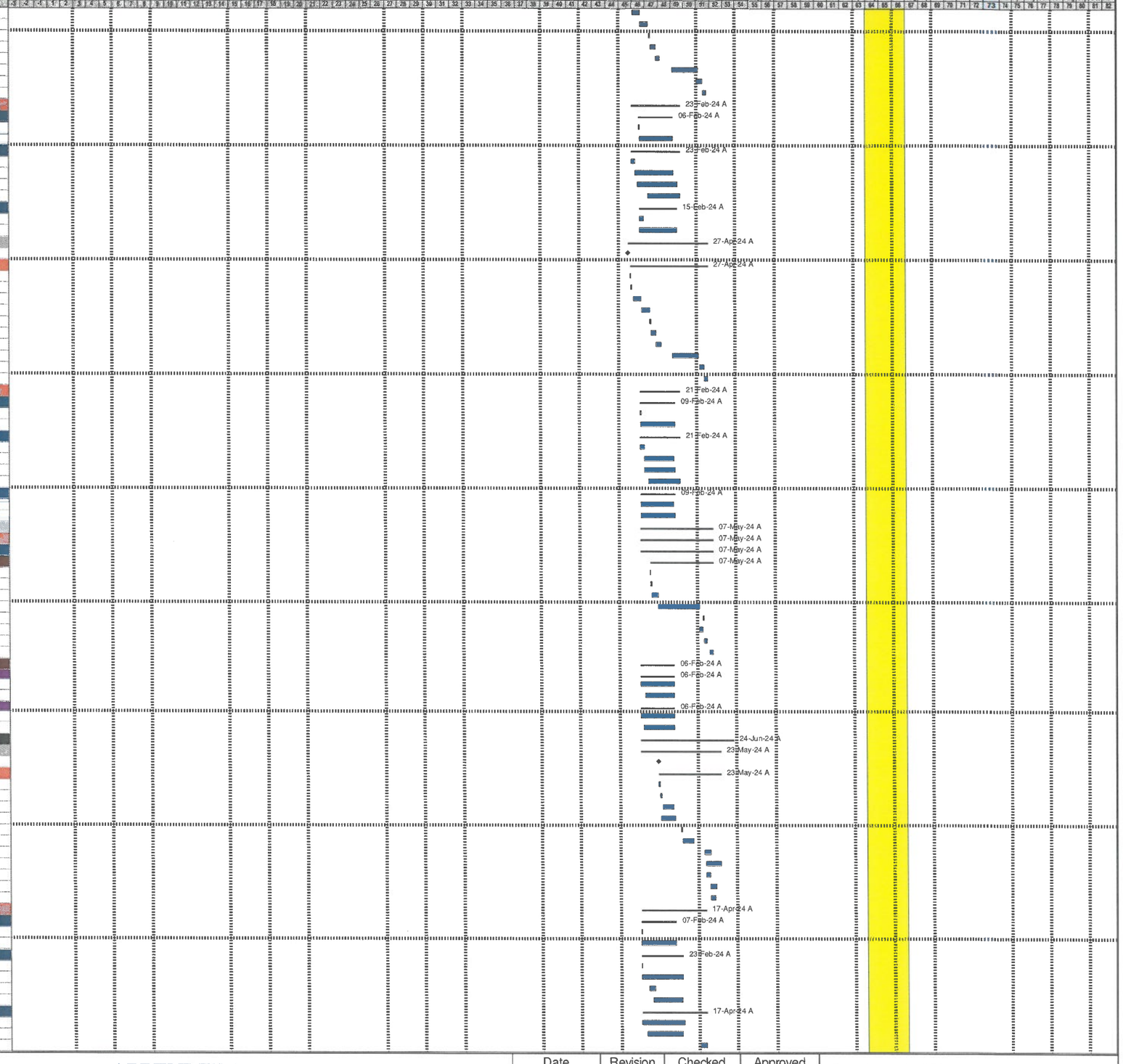
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-1F-SFO1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	03-Nov-23 A	21-Nov-23 A		0	100%
P10-1F-SFO1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	22-Nov-23 A	09-Dec-23 A		0	100%
P10-1F-SFO1040	Floor Screeding	2	11-Dec-23 A	14-Dec-23 A		0	100%
P10-1F-SFO1060	Ceiling Grid Installation	6	15-Dec-23 A	27-Dec-23 A		0	100%
P10-1F-SFO1070	Plastic Laminate Installation	6	28-Dec-23 A	06-Jan-24 A		0	100%
P10-1F-SFO1160	Ceiling Board Installation	8	05-Feb-24 A	06-Apr-24 A		0	100%
P10-1F-SFO1165	Raised Floor Installation	12	02-Apr-24 A	15-Apr-24 A		0	100%
P10-1F-SFO1170	Loose Furniture Installation	8	16-Apr-24 A	24-Apr-24 A		0	100%
BS Works		59	31-Oct-23 A	23-Feb-24 A			100%
MVAC		18	17-Nov-23 A	06-Feb-24 A			100%
P10-1F-SFO11	Setting out for all equipment / MOS inspection	3	17-Nov-23 A	20-Nov-23 A		0	100%
P10-1F-SFO11	Air Duct installation	16	20-Nov-23 A	06-Feb-24 A		0	100%
EL		59	31-Oct-23 A	23-Feb-24 A			100%
P10-1F-SFO11	Setting out for all equipment / MOS inspection	10	31-Oct-23 A	09-Nov-23 A		0	100%
P10-1F-SFO11	Installation of cable containment	4	10-Nov-23 A	07-Feb-24 A		0	100%
P10-1F-SFO11	Cable wiring	9	15-Nov-23 A	16-Feb-24 A		0	100%
P10-1F-SFO11	Installation of Lighting fitting and small power provision	21	09-Dec-23 A	23-Feb-24 A		0	100%
FS		20	20-Nov-23 A	15-Feb-24 A			100%
P10-1F-SFO10	FS Piping, cable containment Installation	20	20-Nov-23 A	29-Nov-23 A		0	100%
P10-1F-SFO10	FS Sprinkler head, Alarm smoke detector, heat detector installation	18	20-Nov-23 A	15-Feb-24 A		0	100%
Server Room		187	23-Oct-23 A	27-Apr-24 A			100%
P10-1F-SER1180	Access Date of 1/F Server Room Fitting Out	0	23-Oct-23 A				100%
ABWF		152	28-Oct-23 A	27-Apr-24 A			100%
P10-1F-SER1000	Setting Out	2	28-Oct-23 A	30-Oct-23 A		0	100%
P10-1F-SER1010	Erect Scaffolding for wall and ceiling finishes	2	30-Oct-23 A	02-Nov-23 A		0	100%
P10-1F-SER1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	06-Nov-23 A	23-Nov-23 A		0	100%
P10-1F-SER1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	24-Nov-23 A	12-Dec-23 A		0	100%
P10-1F-SER1040	Floor Screeding	2	13-Dec-23 A	15-Dec-23 A		0	100%
P10-1F-SER1060	Ceiling Grid Installation	6	16-Dec-23 A	27-Dec-23 A		0	100%
P10-1F-SER1070	Plastic Laminate Installation	6	28-Dec-23 A	08-Jan-24 A		0	100%
P10-1F-SER1160	Ceiling Board Installation	8	05-Feb-24 A	06-Apr-24 A		0	100%
P10-1F-SER1165	Floor Carpet Installation	12	08-Apr-24 A	19-Apr-24 A		0	100%
P10-1F-SER1170	Loose Furniture Installation	8	19-Apr-24 A	27-Apr-24 A		0	100%
BS Works		62	20-Nov-23 A	21-Feb-24 A			100%
MVAC		18	20-Nov-23 A	09-Feb-24 A			100%
P10-1F-SER11	Setting out for all equipment / MOS inspection	3	20-Nov-23 A	22-Nov-23 A		0	100%
P10-1F-SER11	Air Duct installation	16	22-Nov-23 A	09-Feb-24 A		0	100%
EL		53	20-Nov-23 A	21-Feb-24 A			100%
P10-1F-SER11	Setting out for all equipment / MOS inspection	10	20-Nov-23 A	29-Nov-23 A		0	100%
P10-1F-SER11	Installation of cable containment	4	29-Nov-23 A	06-Feb-24 A		0	100%
P10-1F-SER11	Cable wiring	9	29-Nov-23 A	09-Feb-24 A		0	100%
P10-1F-SER11	Installation of Lighting fitting and small power provision	21	09-Dec-23 A	21-Feb-24 A		0	100%
FS		18	22-Nov-23 A	09-Feb-24 A			100%
P10-1F-SER10	FS Piping, cable containment Installation	18	22-Nov-23 A	06-Feb-24 A		0	100%
P10-1F-SER10	FS Sprinkler head, Alarm smoke detector, heat detector installation	18	22-Nov-23 A	09-Feb-24 A		0	100%
BOH		149	18-Nov-23 A	07-May-24 A			100%
Staircase		149	18-Nov-23 A	07-May-24 A			100%
ST-06		149	18-Nov-23 A	07-May-24 A			100%
ABWF		128	12-Dec-23 A	07-May-24 A			100%
P10-1F-ST6-1	Setting Out	2	12-Dec-23 A	13-Dec-23 A		0	100%
P10-1F-ST6-1	Erect Scaffolding for wall and ceiling finishes	2	13-Dec-23 A	15-Dec-23 A		0	100%
P10-1F-ST6-1	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	15-Dec-23 A	30-Dec-23 A		0	100%
P10-1F-ST6-1	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	30-Dec-23 A	05-Apr-24 A		0	100%
P10-1F-ST6-1	Staircase Screeding	2	13-Apr-24 A	16-Apr-24 A		0	100%
P10-1F-ST6-1	Staircase Tiling / Tactile Installation	8	05-Apr-24 A	13-Apr-24 A		0	100%
P10-1F-ST6-1	Staircase Handrail installation	6	16-Apr-24 A	23-Apr-24 A		0	100%
P10-1F-ST6-1	Staircase Wall Painting	6	30-Apr-24 A	07-May-24 A		0	100%
BS Works		15	18-Nov-23 A	06-Feb-24 A			100%
PD		15	18-Nov-23 A	06-Feb-24 A			100%
P10-1F-ST6-1	Water piping works Installation	9	18-Nov-23 A	05-Feb-24 A		0	100%
P10-1F-ST6-1	Floor Drain Installation	5	29-Nov-23 A	06-Feb-24 A		0	100%
FS		13	18-Nov-23 A	06-Feb-24 A			100%
P10-1F-ST6-1	FS Piping, cable containment Installation	5	18-Nov-23 A	05-Feb-24 A		0	100%
P10-1F-ST6-1	FS Sprinkler head, Alarm smoke detector, heat detector installation	7	25-Nov-23 A	06-Feb-24 A		0	100%
Zone 3		214	17-Nov-23 A	24-Jun-24 A			100%
Office & Office Room 1 & 2		187	17-Nov-23 A	23-May-24 A			100%
P10-1FOF-1000	Access Date of 1/F Office Room 1 & 2 Fitting Out	0	29-Dec-23 A				100%
ABWF		129	29-Dec-23 A	23-May-24 A			100%
P10-1FOF-1010	Setting Out	2	29-Dec-23 A	02-Jan-24 A		0	100%
P10-1FOF-1020	Erect Scaffolding for wall and ceiling finishes	2	02-Jan-24 A	05-Jan-24 A		0	100%
P10-1FOF-1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	21	08-Jan-24 A	03-Feb-24 A		0	100%
P10-1FOF-1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	24	05-Jan-24 A	06-Feb-24 A		0	100%
P10-1FOF-1050	Floor Screeding	4	20-Feb-24 A	23-Feb-24 A		0	100%
P10-1FOF-1060	Ceiling Grid Installation	24	24-Feb-24 A	20-Mar-24 A		0	100%
P10-1FOF-1065	Motorized Roller Blind Installation at Office Skylight	14	15-Apr-24 A	29-Apr-24 A		0	100%
P10-1FOF-1070	Ceiling Board Installation & Take Down Working Platform	30	19-Apr-24 A	23-May-24 A		0	100%
P10-1FOF-1160	Plastic Laminate Installation	8	19-Apr-24 A	29-Apr-24 A		0	100%
P10-1FOF-1170	Raised Floor Installation	12	29-Apr-24 A	13-May-24 A		0	100%
P10-1FOF-1180	Loose Furniture Installation	10	30-Apr-24 A	10-May-24 A		0	100%
BS Works		134	17-Nov-23 A	17-Apr-24 A			100%
MVAC		17	17-Nov-23 A	07-Feb-24 A			100%
P10-1FOF-1100	Setting out for all equipment / MOS inspection	2	17-Nov-23 A	18-Nov-23 A		0	100%
P10-1FOF-1110	Air Duct installation	16	18-Nov-23 A	07-Feb-24 A		0	100%
EL		42	17-Nov-23 A	23-Feb-24 A			100%
P10-1FOF-1120	Setting out for all equipment / MOS inspection	2	17-Nov-23 A	18-Nov-23 A		0	100%
P10-1FOF-1130	Installation of cable containment	11	18-Nov-23 A	23-Feb-24 A		0	100%
P10-1FOF-1140	Cable wiring	12	05-Dec-23 A	18-Dec-23 A		0	100%
P10-1FOF-1150	Installation of Lighting fitting and small power provision	16	14-Dec-23 A	22-Feb-24 A		0	100%
FS		133	18-Nov-23 A	17-Apr-24 A			100%
P10-1FOF-1080	FS Piping, cable containment Installation	18	18-Nov-23 A	26-Feb-24 A		0	100%
P10-1FOF-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	13	30-Nov-23 A	22-Feb-24 A		0	100%
P10-1FOF-1190	T&C of FS provision at Office Room Area	13	03-Apr-24 A	17-Apr-24 A		0	100%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

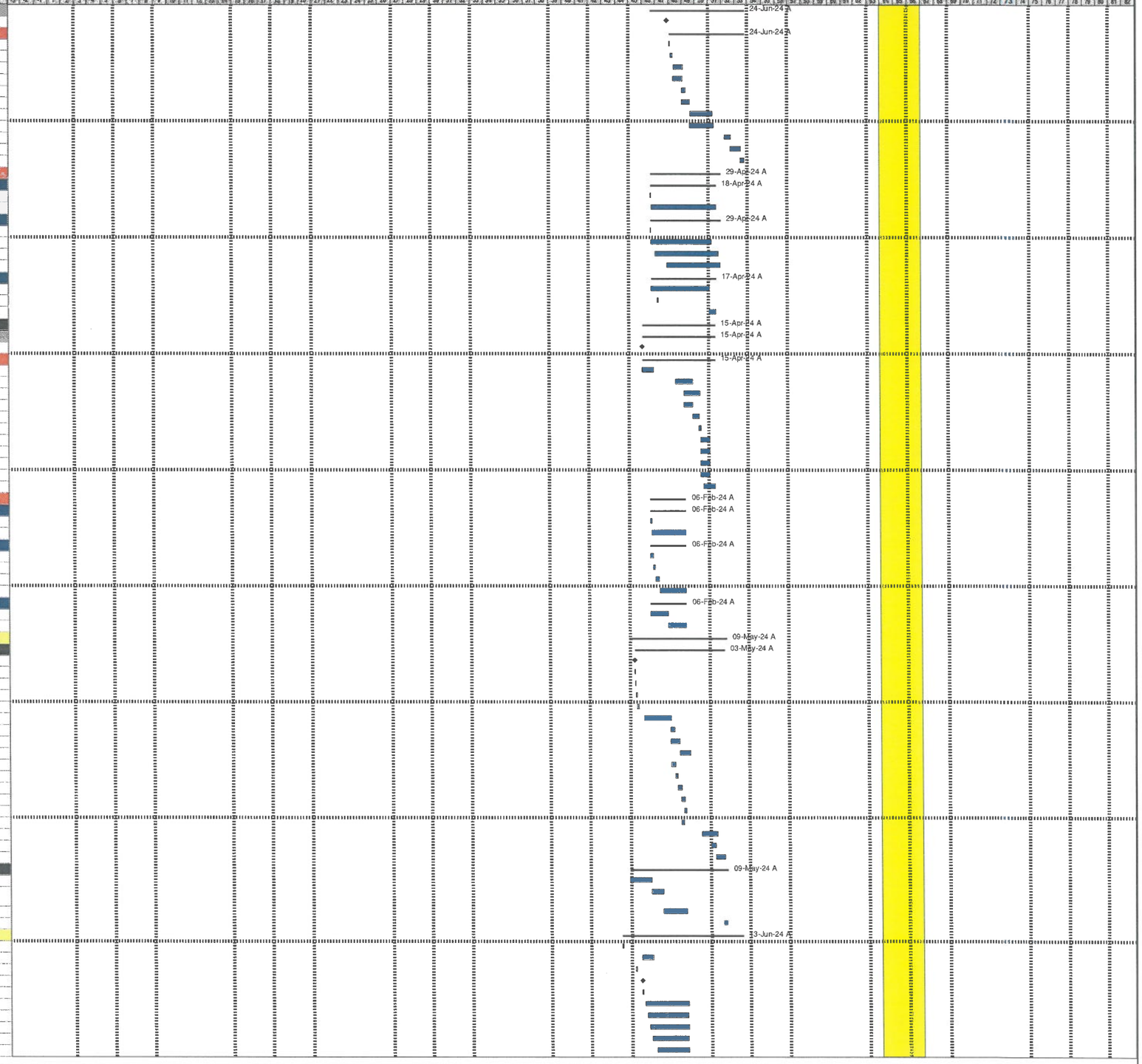
APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
Main Office		211	29-Nov-23 A	24-Jun-24 A			100%
P10-1FOF1010	Access Date of 1/F Main Office Fitting Out	0	28-Dec-23 A				100%
ABWF		174	02-Jan-24 A	24-Jun-24 A			100%
P10-1FOF1160	Setting Out	2	02-Jan-24 A	05-Jan-24 A	0		100%
P10-1FOF1170	Erect Scaffolding for wall and ceiling finishes	2	06-Jan-24 A	10-Jan-24 A	0		100%
P10-1FOF1180	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	20	13-Jan-24 A	03-Feb-24 A	0		100%
P10-1FOF1190	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	20	11-Jan-24 A	01-Feb-24 A	0		100%
P10-1FOF1200	Floor Screeding	10	01-Feb-24 A	09-Feb-24 A	0		100%
P10-1FOF1210	Ceiling Grid Installation	28	01-Feb-24 A	19-Feb-24 A	0		100%
P10-1FOF1215	Motorized Roller Blind Installation at Office Skylight	12	20-Feb-24 A	11-Apr-24 A	0		100%
P10-1FOF1220	Ceiling Board Installation & Take Down Working Platform	40	19-Feb-24 A	13-Apr-24 A	0		100%
P10-1FOF1230	Plastic Laminate Installation (after FS Inspection)	10	09-May-24 A	23-May-24 A	0		100%
P10-1FOF1245	Raised Floor Installation (after FS Inspection)	18	23-May-24 A	15-Jun-24 A	0		100%
P10-1FOF1250	Loose Furniture Installation (after FS Inspection)	8	15-Jun-24 A	24-Jun-24 A	0		100%
BS Works		157	20-Nov-23 A	29-Apr-24 A			100%
MVAC		20	20-Nov-23 A	18-Apr-24 A			100%
P10-1F-OF1280	Setting out for all equipment / MOS inspection	2	20-Nov-23 A	21-Nov-23 A	0		100%
P10-1F-OF1290	Air Duct installation	19	21-Nov-23 A	18-Apr-24 A	0		100%
EL		52	20-Nov-23 A	29-Apr-24 A			100%
P10-1F-OF1300	Setting out for all equipment / MOS inspection	2	20-Nov-23 A	21-Nov-23 A	0		100%
P10-1F-OF1310	Installation of cable containment	9	21-Nov-23 A	08-Apr-24 A	0		100%
P10-1F-OF1320	Cable wiring	18	29-Nov-23 A	23-Apr-24 A	0		100%
P10-1F-OF1330	Installation of Lighting fitting and small power provision	18	28-Dec-23 A	29-Apr-24 A	0		100%
FS		156	21-Nov-23 A	17-Apr-24 A			100%
P10-1F-OF1260	FS Piping, cable containment Installation	9	21-Nov-23 A	03-Apr-24 A	0		100%
P10-1F-OF1270	FS Sprinkler head, Alarm smoke detector, heat detector installation	5	05-Dec-23 A	07-Dec-23 A	0		100%
P10-1FOF-1200	T&C of FS provision at Office Room Area	13	03-Apr-24 A	17-Apr-24 A	0		100%
Zone 4		172	31-Oct-23 A	15-Apr-24 A			100%
External Area		172	31-Oct-23 A	15-Apr-24 A			100%
P10-1F-EXT1000	Access Date of 1/F External Area Fitting Out	0	31-Oct-23 A				100%
ABWF		172	31-Oct-23 A	15-Apr-24 A			100%
P10-1F-EXT1010	Erection of external scaffolding	25	31-Oct-23 A	25-Nov-23 A	3		100%
P10-1F-EXT1020	Aluminium Baffle Ceiling Grid Installation	36	15-Jan-24 A	24-Feb-24 A	6		100%
P10-1F-EXT1030	Aluminium Baffle Ceiling Board Installation	36	05-Feb-24 A	11-Mar-24 A	6		100%
P10-1F-EXT1043	External Wall metal grille installation	18	05-Feb-24 A	24-Feb-24 A	3		100%
P10-1F-EXT1045	Steel Staircase (ST-01) Installation	25	24-Feb-24 A	09-Mar-24 A	3		100%
P10-1F-EXT1050	Removal of external wall scaffolding	6	09-Mar-24 A	13-Mar-24 A	2		100%
P10-1F-EXT1120	Floor Drainage Laying	20	13-Mar-24 A	03-Apr-24 A	2		100%
P10-1F-EXT1130	Waterproofing, testing and placing insulation with protection screed	20	13-Mar-24 A	03-Apr-24 A	2		100%
P10-1F-EXT1140	Steel Staircase (ST-01) Finishes	20	13-Mar-24 A	03-Apr-24 A	2		100%
P10-1F-EXT1150	Glass Balustrade Installation	20	13-Mar-24 A	03-Apr-24 A	2		100%
P10-1F-EXT1160	Timber Deck Installation	20	20-Mar-24 A	15-Apr-24 A	2		100%
BS Works		38	18-Nov-23 A	06-Feb-24 A			100%
MVAC		17	18-Nov-23 A	06-Feb-24 A			100%
P10-1F-EXT10(	Setting out for all equipment / MOS inspection	3	18-Nov-23 A	21-Nov-23 A	0		100%
P10-1F-EXT10:	Air Duct installation	13	22-Nov-23 A	06-Feb-24 A	0		100%
EL		38	18-Nov-23 A	06-Feb-24 A			100%
P10-1F-EXT10(	Setting out for all equipment / MOS inspection	6	18-Nov-23 A	24-Nov-23 A	0		100%
P10-1F-EXT10(	Installation of cable containment	4	24-Nov-23 A	28-Nov-23 A	0		100%
P10-1F-EXT11(	Cable wiring	9	29-Nov-23 A	07-Dec-23 A	0		100%
P10-1F-EXT11'	Installation of Lighting fitting and small power provision	18	09-Dec-23 A	06-Feb-24 A	0		100%
FS		28	18-Nov-23 A	06-Feb-24 A			100%
P10-1F-EXT13(	FS Piping, cable containment Installation	13	18-Nov-23 A	27-Dec-23 A	0		100%
P10-1F-EXT13'	FS Sprinkler head, Alarm smoke detector, heat detector installation	13	27-Dec-23 A	06-Feb-24 A	0		100%
Roof Floor		205	28-Sep-23 A	09-May-24 A			100%
ABWF		195	11-Oct-23 A	03-May-24 A			100%
P10-RF1000	Access Date of Roof Fitting Out	0	11-Oct-23 A				100%
P10-RF1010	Setting Out	2	11-Oct-23 A	12-Oct-23 A	0		100%
P10-RF1020	Roof RC Structure Water Testing before waterproofing	3	12-Oct-23 A	14-Oct-23 A	0		100%
P10-RF1030	Remedial and touch up works before applying waterproofing	2	14-Oct-23 A	16-Oct-23 A	0		100%
P10-RF1040	Applying Roof waterproofing Membrane	5	16-Oct-23 A	20-Oct-23 A	0		100%
P10-RF1050	Water Testing & Infra red testing	10	01-Nov-23 A	01-Jan-24 A	0		100%
P10-RF1060	Laying Insulation board with protection floor screed	6	01-Jan-24 A	10-Jan-24 A	0		100%
P10-RF1070	Laying Floor finishes	18	01-Jan-24 A	22-Jan-24 A	0		100%
P10-RF1080	Roof Dog House BS Installation	20	22-Jan-24 A	14-Feb-24 A	0		100%
P10-RF1081	Roof Skylight Steelwork / Frame Installation (Top of Main Office: 4nos)	10	02-Jan-24 A	11-Jan-24 A	0		100%
P10-RF1082	Roof Skylight Steelwork / Frame Installation (Top of Office Room 1 & 2: 2nos)	5	11-Jan-24 A	16-Jan-24 A	0		100%
P10-RF1083	Roof Skylight Steelwork / Frame Installation (Ext. Area: 4nos)	10	16-Jan-24 A	25-Jan-24 A	0		100%
P10-RF1084	Roof Skylight Glazing Installation (Top of Main Office: 4nos)	7	25-Jan-24 A	01-Feb-24 A	0		100%
P10-RF1085	Roof Skylight Glazing Installation (Top of Office Room 1 & 2: 2nos)	4	01-Feb-24 A	05-Feb-24 A	0		100%
P10-RF1086	Roof Skylight Glazing Installation (Ext. Area: 4nos)	6	25-Jan-24 A	31-Jan-24 A	0		100%
P10-RF1095	PV Panel Installation	30	12-Mar-24 A	16-Apr-24 A	0		100%
P10-RF1096	Hatch Door and Cat Ladder Installation	10	02-Apr-24 A	12-Apr-24 A	0		100%
P10-RF1100	Roof Balustrade & Fall Arrest system Installation	18	13-Apr-24 A	03-May-24 A	0		100%
BS Works		199	28-Sep-23 A	09-May-24 A			100%
P10-RF1150	BS 1st Fixing (Elec, Water, Irrigation piping, AC Ducting and piping)	18	28-Sep-23 A	16-Nov-23 A	0		100%
P10-RF1160	BS 2nd Fixing (Elec, Water, Irrigation System connection, AC VOU Units and connection)	22	16-Nov-23 A	13-Dec-23 A	0		100%
P10-RF1165	BS final Fixing	27	13-Dec-23 A	05-Feb-24 A	0		100%
P10-RF1170	T&C of Roof BS System	9	30-Apr-24 A	09-May-24 A	0		100%
Lift Installation		229	09-Sep-23 A	13-Jun-24 A			100%
P10-LT0900	Builder's works before handover to Cladding contractor installation	3	09-Sep-23 A	12-Sep-23 A	3		100%
P10-LT1000	Lift External wall Cladding Installation	25	24-Oct-23 A	18-Nov-23 A	2		100%
P10-LT1005	Erection of Scaffolding and Lift Shaft checking	3	10-Oct-23 A	12-Oct-23 A	2		100%
P10-LT1007	Commence Lift Installation	0	24-Oct-23 A		2		100%
P10-LT1010	Lift Shaft Plumbing	3	25-Oct-23 A	27-Oct-23 A	2		100%
P10-LT1020	Guide Rail Brackets, Guide Rail and Door Frame Installation	5	31-Oct-23 A	08-Feb-24 A	2		100%
P10-LT1030	Grouting of Lift Door Frame	4	06-Nov-23 A	06-Feb-24 A	2		100%
P10-LT1040	Car Sling, Hoisting ropes, and counter weight frame	4	10-Nov-23 A	08-Feb-24 A	2		100%
P10-LT1050	Lift Cart Assembly	9	16-Nov-23 A	07-Feb-24 A	2		100%
P10-LT1060	Landing Door Installation	4	27-Nov-23 A	08-Feb-24 A	2		100%



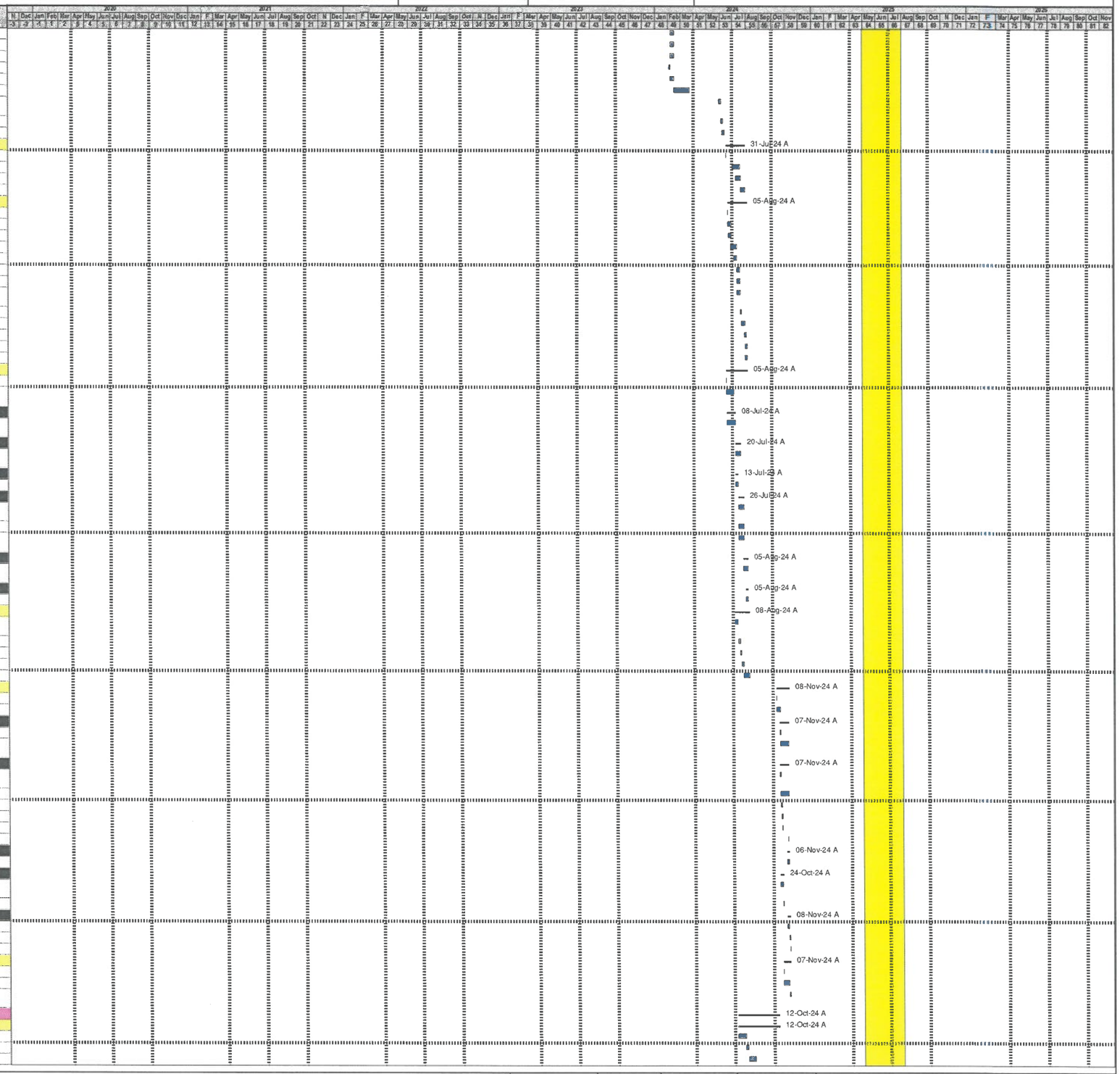
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	Free Float	Duration % Complete
P10-LT1070	Machine controller and Governor Installation	4	07-Feb-24 A	15-Feb-24 A		2	100%
P10-LT1080	Trunking and Conduit in lift Shaft	4	07-Feb-24 A	15-Feb-24 A		2	100%
P10-LT1090	Lift Shaft Wiring	4	07-Feb-24 A	15-Feb-24 A		2	100%
P10-LT1100	Removing of Scaffolding, Erect lift plinth and install cat ladder	4	05-Feb-24 A	07-Feb-24 A		2	100%
P10-LT1110	Pit Equipments	4	07-Feb-24 A	14-Feb-24 A		2	100%
P10-LT1120	Wiring outside lift shaft for lift supervision panel	5	15-Feb-24 A	23-Mar-24 A		2	100%
P10-LT1130	Builders Works (Call Button, indicator Panel) prior to LE5 Submission (Defect Rectification Works delay due to no acces)	5	31-May-24 A	05-Jun-24 A		2	100%
P10-LT1140	T&C (Low Speed)	3	05-Jun-24 A	08-Jun-24 A		2	100%
P10-LT1150	T&C (High Speed)	3	08-Jun-24 A	13-Jun-24 A		2	100%
PMI-238 Revised MVAC Installation at 1/F of LVNC		51	17-Jun-24 A	31-Jul-24 A			100%
P10-PMI238-1	PMI-238, CE-268 received on 17 June 2024	1	17-Jun-24 A	17-Jun-24 A			100%
P10-PMI238-11	Obtain Quotation Acceptance from PM (Time & Cost) [10-Jul-2024 IN-06452]	19	02-Jul-24 A	18-Jul-24 A			100%
P10-PMI238-21	Replacement of indoor unit (Wall mounted type to Concealed type)	12	10-Jul-24 A	21-Jul-24 A			100%
P10-PMI238-31	Ductworks and pipeworks	10	22-Jul-24 A	31-Jul-24 A			100%
PMI-229 Revised Construction of Window, Door, Louvre and miscellaneous works for LVNC		37	21-Jun-24 A	05-Aug-24 A			100%
P10-PMI229-01	CE No.: 259 | Quotation Accepted 21 Jun 2024 (IN-06339) (no time implication)	1	21-Jun-24 A	21-Jun-24 A			100%
P10-PMI229-11	Obtain Quotation Acceptance from PM (IN-06339) (IN-06340) Received	8	21-Jun-24 A	28-Jun-24 A			100%
P10-PMI229-21	Revised Roller Blind Cover	6	22-Jun-24 A	28-Jun-24 A			100%
P10-PMI229-31	Revised Door, Access Panel and Ironmongery | (Original Omission)	12	28-Jun-24 A	12-Jul-24 A			100%
P10-PMI229-41	Additional Block Wall at ST-02 | (Original Omission)	6	05-Jul-24 A	12-Jul-24 A			100%
P10-PMI229-51	Revised OTG Matching Cover | (Original Omission)	6	12-Jul-24 A	18-Jul-24 A			100%
P10-PMI229-61	Revised Aluminium Louvre | (Original Omission)	9	12-Jul-24 A	20-Jul-24 A			100%
P10-PMI229-71	Additional Fritted Pattern on Window and Internal Glass Partition at LVNC | (Original Omission)	9	12-Jul-24 A	20-Jul-24 A			100%
P10-PMI229-81	Revised Tactile on Ground Floor | (Original Omission)	4	20-Jul-24 A	23-Jul-24 A			100%
P10-PMI229-91	Additional Floor Boxes at Internal Raised Floor	9	23-Jul-24 A	30-Jul-24 A			100%
P10-PMI229-95	Installation of Stainless Steel Dividing Strips on Ground Floor	4	30-Jul-24 A	02-Aug-24 A			100%
P10-PMI229-96	Additional Channel Matching Covers along GLC at Lift area on Ground Floor	4	31-Jul-24 A	05-Aug-24 A			100%
P10-PMI229-97	Installation of Blockwall Protection for Waterproofing Membrane	4	31-Jul-24 A	05-Aug-24 A			100%
PMI-227 Revised Systems for CCTV, Electrical, Extra Low Voltage, Fire Services & Drainage for LVNC		51	17-Jun-24 A	05-Aug-24 A			100%
P10-PMI227-01	PMI-227, CE-257 received on 17 June 2024	1	17-Jun-24 A	17-Jun-24 A			100%
P10-PMI227-11	Obtain Quotation Acceptance from PM (Quotation Acceptance No. 186 issued on 5 Jul received on 22 Jul 2024)	16	17-Jun-24 A	04-Jul-24 A			100%
Sketch No. SK-01, SK-02 and SK-03		19	18-Jun-24 A	08-Jul-24 A			100%
P10-PMI225-21	Additional cameras, external CCTV storage in workstation and monitor with associated cabling works for CCTV System	19	18-Jun-24 A	08-Jul-24 A			100%
Sketch No. ND/2019/02/R10/130/0376		12	08-Jul-24 A	20-Jul-24 A			100%
P10-PMI225-31	Additional overcurrent relay & earth fault relay works for ACB-002 & ABC-003 of Low Voltage Switchboard	12	08-Jul-24 A	20-Jul-24 A			100%
Sketch No. SK-04 and SK-05		6	08-Jul-24 A	13-Jul-24 A			100%
P10-PMI225-41	Additional socket outlets installation works at G/F and 1/F	6	08-Jul-24 A	13-Jul-24 A			100%
Sketch No. SK-06, SK-07 and SK-08		12	15-Jul-24 A	26-Jul-24 A			100%
P10-PMI225-51	Installation of 100 nos. blank access card for automatic access control and additional data outlets at 1/F	12	15-Jul-24 A	26-Jul-24 A			100%
P10-PMI225-61	Installation of additional access control system at ST-02 and ST-03	12	15-Jul-24 A	26-Jul-24 A			100%
P10-PMI225-71	Installation of additional intercom system at 2 nos. of temporary refuse space and associated Extra Low Voltage	12	15-Jul-24 A	26-Jul-24 A			100%
R/F Fire Extinguisher and Emergency Lighting		6	26-Jul-24 A	05-Aug-24 A			100%
P10-PMI225-81	Installation and associated works for fire extinguisher and emergency lighting at LVNC Roof Floor	6	26-Jul-24 A	05-Aug-24 A			100%
Sketch No. ND/2019/02/R10/130/0378		6	31-Jul-24 A	05-Aug-24 A			100%
P10-PMI225-91	Installation and associated works for first flush device	6	31-Jul-24 A	05-Aug-24 A			100%
PMI-228 Add. Signage, Braille and tactile Plan, Gym facilities & Misc. works at G/F U-toilet		16	05-Jul-24 A	08-Aug-24 A			100%
P10-PMI228-01	PMI-228, CE-258 Obtain Quotation Acceptance from PM (Quote Acceptance No. 190) | Received on 22-Jul-24	6	05-Jul-24 A	12-Jul-24 A			100%
P10-PMI228-11	Installation of revised signage	4	13-Jul-24 A	17-Jul-24 A			100%
P10-PMI228-21	Installation of additional braille and tactile floor plan at Ground Floor	4	17-Jul-24 A	20-Jul-24 A			100%
P10-PMI228-31	Installation of additional Gym facilities	4	22-Jul-24 A	25-Jul-24 A			100%
P10-PMI228-41	Modification works to Ground Floor U-toilet and surface channel	10	26-Jul-24 A	08-Aug-24 A			100%
PMI-253 Additional E&M Provision in Long Valley Nature Centre (LVNC)		32	09-Oct-24 A	08-Nov-24 A			100%
P10-PMI253-1	PMI-238 received on 9-Oct-2024	1	09-Oct-24 A	09-Oct-24 A			100%
P10-PMI253-11	Obtain Quotation Acceptance from PM	6	10-Oct-24 A	17-Oct-24 A			100%
Basement Floor		26	17-Oct-24 A	07-Nov-24 A			100%
P10-PMI253-12	Install two way lighting switch at B/F corridor	2	17-Oct-24 A	19-Oct-24 A			100%
P10-PMI253-13	Install filter screen (removable stainless steel wire mesh) for DN350 Overflow pipe inside rainwater collection tank	26	17-Oct-24 A	07-Nov-24 A			100%
Ground Floor		26	17-Oct-24 A	07-Nov-24 A			100%
P10-PMI253-20	Install lockable cover with padlock for socket outlets at Male Toilet and Female Toilet	2	17-Oct-24 A	19-Oct-24 A			100%
P10-PMI253-21	Automatic changeover of AC units at ELV Room	26	17-Oct-24 A	07-Nov-24 A			100%
P10-PMI253-23	Install lighting switches at Male Toilet, female Toilet and U-toilet	2	19-Oct-24 A	21-Oct-24 A			100%
P10-PMI253-24	Install rubber mat on side of switchboard at Switch Room and Generator Room	2	21-Oct-24 A	22-Oct-24 A			100%
P10-PMI253-25	Install on/off switch for blower fans at Male Toilet and Female Toilet	1	22-Oct-24 A	23-Oct-24 A			100%
P10-PMI253-26	Install additional telephone point at Security Control Room	1	05-Nov-24 A	05-Nov-24 A			100%
First Floor		4	01-Nov-24 A	06-Nov-24 A			100%
P10-PMI253-31	Automatic changeover of AC units at Server Room	4	01-Nov-24 A	06-Nov-24 A			100%
Roof Floor		7	17-Oct-24 A	24-Oct-24 A			100%
P10-PMI253-41	Install 3nos. G.M.S walking platform with step above E&M services along maintenance access	5	17-Oct-24 A	23-Oct-24 A			100%
P10-PMI253-51	Install canopy above dog house	2	23-Oct-24 A	24-Oct-24 A			100%
Handover		8	01-Nov-24 A	08-Nov-24 A			100%
P10-PMI253-61	Removal of provision of sump pump in lift sump pit	4	01-Nov-24 A	05-Nov-24 A			100%
P10-PMI253-71	Testing & Commissioning	2	06-Nov-24 A	07-Nov-24 A			100%
P10-PMI253-81	Issue completion certificate	1	08-Nov-24 A	08-Nov-24 A			100%
PMI-257 Additional Top Painting Finish for ST-01 in LVNC		16	23-Oct-24 A	07-Nov-24 A			100%
P10-PMI257-1	PMI-257 received on 23-Oct-2024	1	23-Oct-24 A	23-Oct-24 A			100%
P10-PMI257-11	Obtain Quotation Aceptance from PM	12	23-Oct-24 A	05-Nov-24 A			100%
P10-PMI257-21	Apply 2 coats of top painting finish with primer for metal staircase ST-01 (RAL 7015)	1	06-Nov-24 A	07-Nov-24 A			100%
Landscape Works		110	08-Jul-24 A	12-Oct-24 A			100%
Ground Floor		101	08-Jul-24 A	12-Oct-24 A			100%
P10-GF-EXT1490	Planters Structural works	18	08-Jul-24 A	25-Jul-24 A		2	100%
P10-GF-EXT1495	Planters RC defect rectification	5	26-Jul-24 A	31-Jul-24 A		2	100%
P10-GF-EXT1500	Planters Waterproofing	16	01-Aug-24 A	17-Aug-24 A		2	100%



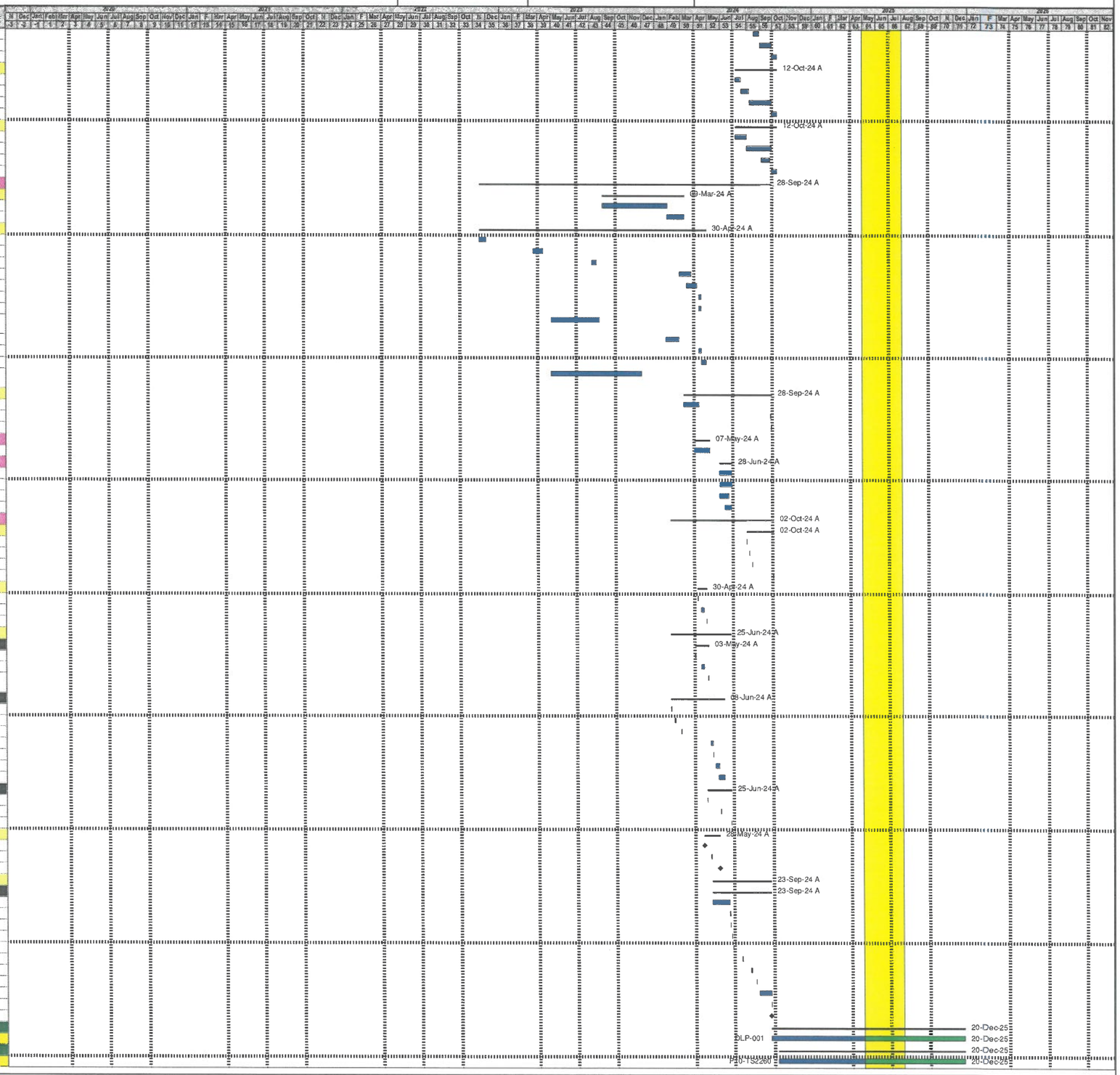
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P10-GF-EXT1510	Irrigation Pipes, Sub-soil Drainage installation	10	19-Aug-24 A	31-Aug-24 A		2	100%
P10-GF-EXT1520	Placing Planting Soil	12	02-Sep-24 A	30-Sep-24 A		2	100%
P10-GF-EXT1530	Shurbs Planting works (1,804 nos)	22	30-Sep-24 A	12-Oct-24 A		2	100%
First Floor		106	08-Jul-24 A	12-Oct-24 A			100%
P10-1F-EXT1330	Irrigation Pipes, Sub-soil Drainage installation	13	08-Jul-24 A	20-Jul-24 A		2	100%
P10-1F-EXT1335	Planters Waterproofing	18	22-Jul-24 A	08-Aug-24 A		2	100%
P10-1F-EXT1340	Placing Planting Soil	31	09-Aug-24 A	30-Sep-24 A		2	100%
P10-1F-EXT1350	Shrubs Planting works (1,595nos)	27	30-Sep-24 A	12-Oct-24 A		2	100%
Roof Floor		110	08-Jul-24 A	12-Oct-24 A			100%
P10-RF1115	Roof Planters Drainages, irrigation pipe, Artificial Granite Tile Installation	25	08-Jul-24 A	02-Aug-24 A		1	100%
P10-RF1120	Soil Backfilling to Roof Planters	31	03-Aug-24 A	30-Sep-24 A		2	100%
P10-RF1125	Water Points installation for irrigation	18	06-Sep-24 A	26-Sep-24 A		1	100%
P10-RF1130	Shurbs Planting works to roof floor (4,290 nos)	31	30-Sep-24 A	12-Oct-24 A		1	100%
External Works		618	19-Nov-22 A	28-Sep-24 A			100%
Retaining wall		167	31-Aug-23 A	09-Mar-24 A			100%
P10-4140	Construction of U trough Structure KW-09 (6 Bays @ 7.5m / Bay, 45m)	48	31-Aug-23 A	30-Jan-24 A		3	100%
P10-4150	Backfill to +7.5mPD	30	30-Jan-24 A	09-Mar-24 A		3	100%
Underground Utilities Connection		456	15-Nov-22 A	30-Apr-24 A			100%
P10-2301	Construction of Manhole SMH-04 for connection of rainwater Tank	15	15-Nov-22 A	01-Dec-22 A		2	100%
P10-2311	Underground Drainage and sewerage installation near U trough Structure KW-09	16	22-Mar-23 A	13-Apr-23 A		2	100%
P10-2311.1	Underground sewerage Installation and Temp. Sewerage Tank connection	10	07-Aug-23 A	17-Aug-23 A		3	100%
P10-2312	ELS, Trench excavation for drainage pipe (65m long, -0.72mPD to -1.03mPD)	25	29-Feb-24 A	26-Mar-24 A		2	100%
P10-2313	Sewerage pipe laying (65m) (DN1050)	18	15-Mar-24 A	08-Apr-24 A		3	100%
P10-2314	Connection of fresh water to existing watermains	5	13-Apr-24 A	18-Apr-24 A		3	100%
P10-2315	Connection of Salt water to existing watermains	5	13-Apr-24 A	18-Apr-24 A		3	100%
P10-2316	Installation of 11KV Cables along sub-station from HSH Pai Lau to Vistor Centre EVA (~500m @ 2wks/50m)	107	02-May-23 A	24-Aug-23 A		1	100%
P10-2317	Underground Cables Laying (Under EVA)	27	27-Jan-24 A	27-Feb-24 A		3	100%
P10-2318	Connection of Main pipe to Street Hydrant outside premises	6	13-Apr-24 A	19-Apr-24 A		3	100%
P10-2320	Install Street Hydrant outside premises	11	19-Apr-24 A	30-Apr-24 A		3	100%
P10-4160	Installation of FTNS Cables from HSH Pai Lau to Vistor Centre MDF Room (~500m @ 2wks/50m)	128	01-May-23 A	01-Dec-23 A		1	100%
EVA Construction		160	09-Mar-24 A	28-Sep-24 A			100%
P10-2330	Construction of EVA and Parking Spaces	36	09-Mar-24 A	12-Apr-24 A		2	100%
P10-2340	Road Milling at EVA Road (Portion 8)	2	26-Sep-24 A	27-Sep-24 A			100%
P10-2360	Lay BC bituminous for Road Paving (Portion 8)	2	27-Sep-24 A	28-Sep-24 A			100%
Signage Works		48	02-Apr-24 A	07-May-24 A			100%
P10-SG-1000	Placing Statutory Signages and ready for FS Inspection	48	02-Apr-24 A	07-May-24 A		2	100%
Building Services T&C		55	31-May-24 A	28-Jun-24 A			100%
P10-4080	Overall Building Services T&C (MVAC System)	25	31-May-24 A	27-Jun-24 A		14	100%
P10-4100	Overall Building Services T&C (Water Supply System)	25	01-Jun-24 A	28-Jun-24 A		14	100%
P10-4110	Overall Building Services T&C (Electrical System)	19	31-May-24 A	20-Jun-24 A		14	100%
P10-4120	Overall Building Services T&C (FS System)	16	11-Jun-24 A	27-Jun-24 A		14	100%
Statutory Inspection		275	06-Feb-24 A	02-Oct-24 A			100%
EMSD Inspection (Lift)		10	01-Aug-24 A	02-Oct-24 A			100%
P10-LT2000	Submit Form LE5 For EMSD Inspection	1	01-Aug-24 A	01-Aug-24 A		2	100%
P10-LT2010	EMSD Inspection	1	08-Aug-24 A	08-Aug-24 A		2	100%
P10-LT2020	Issue Lift Certificate (Form LE6) (Use Permit)	1	14-Aug-24 A	14-Aug-24 A		2	100%
P10-LT2030	CEDD/ASD/EMSD/ArchSD/AFCD [Final Handover 2-Oct-2024]	1	02-Oct-24 A	02-Oct-24 A			100%
DSD Inspection		21	09-Apr-24 A	30-Apr-24 A			100%
P10-WSD1090	Submit Form for DSD Inspection	1	09-Apr-24 A	09-Apr-24 A		2	100%
P10-WSD1100	DSD Inspection	7	16-Apr-24 A	23-Apr-24 A		2	100%
P10-WSD1110	Issue Drainage Completion Certificate by DSD	1	30-Apr-24 A	30-Apr-24 A		2	100%
WSD Inspection		164	06-Feb-24 A	25-Jun-24 A			100%
Fresh Water / Salt Water / Cleansing Water / Irrigation Water Supply		29	02-Apr-24 A	03-May-24 A			100%
P10-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Fresh Water Supply	1	02-Apr-24 A	02-Apr-24 A		2	100%
P10-WSD1010	WSD Inspection - Fresh Water Supply	7	16-Apr-24 A	23-Apr-24 A		2	100%
P10-WSD1020	Issue Water Certificate (Part V) - Fresh Water Supply [Pending FSCA issue by WSD]	1	03-May-24 A	03-May-24 A		2	100%
FS Water Supply		164	06-Feb-24 A	08-Jun-24 A			100%
P10-WSD1060	Submit Form WWO046 Part IV For WSD Inspection - FS Water Supply	1	06-Feb-24 A	06-Feb-24 A		2	100%
P10-WSD1070	WSD Inspection - FS Water Supply	7	14-Feb-24 A	16-Feb-24 A		2	100%
P10-WSD1080	Issue Water Certificate (Part V) - FS Water Supply [Received on 1 Mar 2024]	1	01-Mar-24 A	01-Mar-24 A		2	100%
P10-WSD1150	FS water sample collection [8 May 2024]	4	08-May-24 A	13-May-24 A			100%
P10-WSD1160	FS water sample acceptance [14 May 2024]	1	14-May-24 A	14-May-24 A			100%
P10-WSD1170	Water sampling test for the inside services water supply [passed on 27 May 2024]	4	20-May-24 A	27-May-24 A			100%
P10-WSD1180	WSD issuance of WWO46 V(b)	4	27-May-24 A	08-Jun-24 A			100%
FS Street Hydrant		51	30-Apr-24 A	25-Jun-24 A			100%
P10-WSD1120	Submit Form WWO1082 For WSD Inspection - FS Street Hydrant	1	30-Apr-24 A	30-Apr-24 A		2	100%
P10-WSD1130	WSD Inspection - FS Street Hydrant	1	31-May-24 A	31-May-24 A		2	100%
P10-WSD1140	Issue Completion Certificate for the connection of FS Street Hydrant	1	25-Jun-24 A	25-Jun-24 A		2	100%
FSD Inspection		33	22-Apr-24 A	28-May-24 A			100%
P10-FSD1000	Submit FS Form 314 / 501 For FSD Inspection	0	22-Apr-24 A			2	100%
P10-FSD1010	FSD Inspection [8-9 May 2024]	2	08-May-24 A	09-May-24 A			100%
P10-FSD1230	Issue Fire Certificate (Form 172) [28 May 2024]	0		28-May-24 A		2	100%
Achieve Key Date 1		156	10-May-24 A	23-Sep-24 A			100%
CEDD, ASD & EMSD Inspection		156	10-May-24 A	23-Sep-24 A			100%
P10-CED0850	Post FSD Inspection Fitting out works	16	10-May-24 A	19-Jun-24 A		2	100%
P10-CED0900	Overall System T&C before Inspection	5	19-Jun-24 A	21-Jun-24 A		2	100%
P10-CED1000	Submit Inspection Form	1	21-Jun-24 A	21-Jun-24 A		2	100%
P10-CED1100	CEDD/ASD/EMSD/ArchSD/AFCD Inspection [Inspection on 25-Jun-2024]	1	25-Jun-24 A	25-Jun-24 A		2	100%
P10-CED1110	CEDD/ASD/EMSD/ArchSD/AFCD Inspection [Inspection on 27-Jun-2024]	1	27-Jun-24 A	27-Jun-24 A			100%
P10-CED1120	CEDD/ASD/EMSD/ArchSD/AFCD Inspection [Inspection on 18-Jul-2024]	1	18-Jul-24 A	18-Jul-24 A			100%
P10-CED1130	CEDD/ASD/EMSD/ArchSD/AFCD [Handover Inspection on 7-9-Aug-2024]	1	07-Aug-24 A	09-Aug-24 A			100%
P10-CED1140	CEDD/ASD/EMSD/ArchSD/AFCD [Handover Inspection on 20-Aug-2024	1	20-Aug-24 A	20-Aug-24 A			100%
P10-CED1150	CEDD/ASD/EMSD/ArchSD/AFCD [Final Handover 23-Sep-2024]	25	27-Aug-24 A	23-Sep-24 A			100%
P10-CED1200	Issue Completion Certificate	1	23-Sep-24 A	23-Sep-24 A			100%
P10-CED1300	Achieve KD1 [23-Sep-2024]	0		23-Sep-24 A		0	100%
Defect Liability Period		365	23-Sep-24 A	20-Dec-25	75		35.62%
DLP-001	365 days	365	23-Sep-24 A	20-Dec-25	75		35.62%
Switching Sewerage System		439	08-Oct-24 A	20-Dec-25	75		46.47%
P10-TS2260	Operation and decommissioning works for temporary sewerage system	356	08-Oct-24 A	20-Dec-25	75	12	33.91%



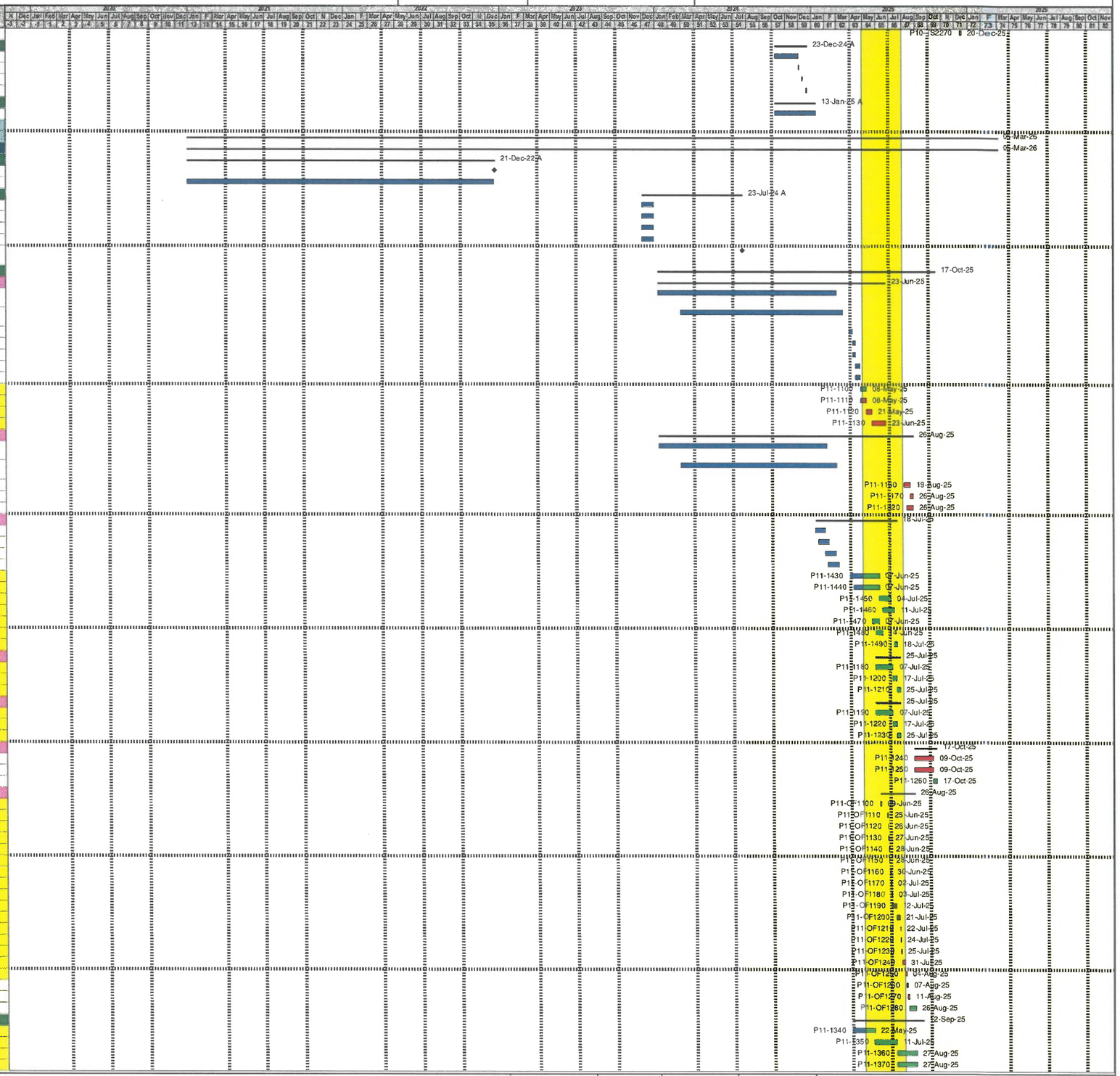
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A - DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	FRA	Duration % Complete
P10-TS2270	Switch back to permanent system	5	16-Dec-25	20-Dec-25	75	0	0%
BEAM PLUS Final Assessment [Ataf]		72	08-Oct-24 A	23-Dec-24 A			100%
P10-BP0090	Period of Collecting BEAM PLUS related documents, & certificates	53	08-Oct-24 A	03-Dec-24 A		2	100%
P10-BP1000	Submit Inspection Form	1	03-Dec-24 A	04-Dec-24 A		2	100%
P10-BP1010	BEAM PLUS Inspection	2	12-Dec-24 A	13-Dec-24 A		2	100%
P10-BP1020	Issue Certificate	2	21-Dec-24 A	23-Dec-24 A		2	100%
BEE Ordinance Submission [Ataf]		88	08-Oct-24 A	13-Jan-25 A			100%
P10-CED1210	Submit document to EMSD for fulfilling Building Energy Efficiency Ordinance	88	08-Oct-24 A	13-Jan-25 A		2	100%
Works in Section 4AEstablishment Works (365 Days)		0			0		0%
Works in Section 5		1720	30-Dec-20 A	05-Mar-26	94		83.65%
Portion 11 - Village Resite Area [CE-203	PMI-160 168 236]	1720	30-Dec-20 A	05-Mar-26	94		83.65%
Preliminary Works		651	30-Dec-20 A	21-Dec-22 A			100%
P11-1000	PMI Issuance for execution of the Works (1039 from Starting Date) (21 Dec 22)	0	21-Dec-22 A			0	100%
P11-1005	Temporary Storage Area	595	30-Dec-20 A	19-Dec-22 A		0	100%
Preparation Works		381	02-Dec-23 A	23-Jul-24 A			100%
P11-1010	Subcontractor & Supplier List Preparation	27	02-Dec-23 A	29-Dec-23 A			100%
P11-1020	Preparation of C9 Subletting Procedure	27	02-Dec-23 A	29-Dec-23 A			100%
P11-1030	Planning for relocation of material and container office	27	02-Dec-23 A	29-Dec-23 A			100%
P11-1040	Arrangement of external storage yard	27	02-Dec-23 A	29-Dec-23 A			100%
P11-1040a	PMI No. 236 Revised Cable Duct & Drawpit arrangement & revised electrical substation arrangement for VRA	0	23-Jul-24 A				100%
Underground & structural works		727	08-Jan-24 A	17-Oct-25	218		78.36%
Drainage Works		680	08-Jan-24 A	23-Jun-25	326		92.72%
P11-1040b	Construction of SMH_7.04 to 7.07, 4.01 to 4.02, 2.01A to 2.08, 1.05 to 1.07A, 6.04 to 6.05 & 5.02 to 5.19 (35/53 nos)	377	08-Jan-24 A	28-Feb-25 A			100%
P11-1040c	Pipe laying between SMH_7.04 to 7.07, 4.01 to 4.02, 2.01A to 2.08, 1.05 to 1.07A, 6.04 to 6.05 & 5.02 to 5.19	343	29-Feb-24 A	14-Mar-25 A			100%
P11-1050	Construction of SMH_7.01, SMH_7.02, SMH_7.03	7	31-Mar-25 A	08-Apr-25 A			100%
P11-1060	Pipe laying between SMH_7.01, SMH_7.02, SMH_7.03	7	08-Apr-25 A	15-Apr-25 A			100%
P11-1070	Construction of SMH_1.03, SMH_1.04, SMH_5.01	7	08-Apr-25 A	15-Apr-25 A			100%
P11-1080	Pipe laying between SMH_1.03, SMH_1.04, SMH_5.01	7	15-Apr-25 A	25-Apr-25 A			100%
P11-1090	Construction of SMH_6.01, SMH_6.02, SMH_6.03	7	15-Apr-25 A	25-Apr-25 A			100%
P11-1100	Pipe laying between SMH_6.01, SMH_6.02, SMH_6.03	7	25-Apr-25 A	08-May-25	368		0%
P11-1110	Construction of SMH_1.07, SMH_1.08, SMH_1.09, SMH_1.10 & SMH_1.11	12	25-Apr-25 A	08-May-25	-42		37.04%
P11-1120	Pipe laying between SMH_1.07, SMH_1.08, SMH_1.09, SMH_1.10 & SMH_1.11	12	08-May-25	21-May-25	-42		0%
P11-1130	Remove Sheetpiles and Backfilling to at grade level	30	21-May-25	23-Jun-25	-42		0%
Sewage Works (PMI-158/180 issurance on 9-Jan-2024)		538	09-Jan-24 A	26-Aug-25	266		96.1%
P11-1140	Construction of sewage manholes FMH_1.01 to 1.18, 2.01 to 2.14, 3.01 to 3.16, 4.01 to 4.10, 5.01 to 5.04	300	09-Jan-24 A	05-Feb-25 A			100%
P11-1150	Pipe laying between FMH_1.01 to 1.18, 2.01 to 2.14, 3.01 to 3.16, 4.01 to 4.10, 5.01 to 5.04	330	29-Feb-24 A	28-Feb-25 A			100%
P11-1160	Construction of Terminal Manhole FTMH_6.01	14	04-Aug-25	19-Aug-25	-147		0%
P11-1170	Pipe laying between FTMH_6.01 and FMH_KT_6.03A	7	19-Aug-25	26-Aug-25	-147		0%
P11-1320	Remove Sheetpiles and Backfilling to at grade level	14	11-Aug-25	26-Aug-25	-147		0%
Cable drawpits & ducting		170	10-Jan-25 A	18-Jul-25	302		56.97%
P11-1390	Construction of drawpit DP-03 to DS-08 (6 nos)	21	10-Jan-25 A	01-Feb-25 A			100%
P11-1400	Construction of ducting between DP-03 and DS-08	21	17-Jan-25 A	11-Feb-25 A			100%
P11-1410	Construction of drawpit DP-22 to DS-28 (7 nos)	24	01-Feb-25 A	26-Feb-25 A			100%
P11-1420	Construction of ducting between DP-22 and DS-28	24	08-Feb-25 A	05-Mar-25 A			100%
P11-1430	Construction of drawpit DP-01 to DS-10 (10 nos)	35	31-Mar-25 A	07-Jun-25	302		0%
P11-1440	Construction of ducting between DP-01 and DS-10	35	08-Apr-25 A	07-Jun-25	340		0%
P11-1450	Construction of drawpit DP-15 to DS-21 (7 nos)	24	07-Jun-25	04-Jul-25	302		0%
P11-1460	Construction of ducting between DP-15 and DS-21	24	14-Jun-25	11-Jul-25	302		0%
P11-1470	Construction of drawpit DP-11 to DS-14 (4 nos)	14	22-May-25	07-Jun-25	333		0%
P11-1480	Construction of ducting between DP-11 and DS-14	14	30-May-25	14-Jun-25	333		0%
P11-1490	Backfilling to at grade level	7	11-Jul-25	18-Jul-25	302		0%
Fresh Watermains		53	28-May-25	25-Jul-25	296		0%
P11-1180	Construction of fresh watermains	35	28-May-25	07-Jul-25	296		0%
P11-1200	Water pressure test for fresh watermains	10	07-Jul-25	17-Jul-25	296		0%
P11-1210	Backfilling to at grade level	8	17-Jul-25	25-Jul-25	296		0%
Flush Water Mains		53	28-May-25	25-Jul-25	296		0%
P11-1190	Construction of flush watermains	35	28-May-25	07-Jul-25	296		0%
P11-1220	Water pressure test for flush watermains	10	07-Jul-25	17-Jul-25	296		0%
P11-1230	Backfilling to at grade level	8	17-Jul-25	25-Jul-25	296		0%
Surface channels & catchpits		48	26-Aug-25	17-Oct-25	218		0%
P11-1240	Construction of catchpits & gully	40	26-Aug-25	09-Oct-25	-147		0%
P11-1250	Construction of surface channels	40	26-Aug-25	09-Oct-25	-147		0%
P11-1260	Backfilling to at grade level	8	09-Oct-25	17-Oct-25	218		0%
Outfall SMH_KT6.04A		75	07-Jun-25*	26-Aug-25	266		0%
P11-OF1100	Removal of Grasscrete and concrete materials	2	07-Jun-25*	09-Jun-25	-29	0	0%
P11-OF1110	Excavation to formation level	2	23-Jun-25	25-Jun-25	-42	0	0%
P11-OF1120	Laying of silt curtain and delivery of concrete block	1	25-Jun-25	26-Jun-25	-42	0	0%
P11-OF1130	Pour Concrete Blinding	1	26-Jun-25	27-Jun-25	-42	0	0%
P11-OF1140	Erect formwork for Vertical blinding for base slab shear key	1	27-Jun-25	28-Jun-25	-42	0	0%
P11-OF1150	Pour Concrete shear key blinding	1	28-Jun-25	28-Jun-25	-42	0	0%
P11-OF1160	Strip off formwork for shear key	1	30-Jun-25	30-Jun-25	-42	0	0%
P11-OF1170	Erect formwork for Shear key	1	30-Jun-25	02-Jul-25	-42	0	0%
P11-OF1180	Erect formwork for outfall base slab	1	02-Jul-25	03-Jul-25	-42	0	0%
P11-OF1190	Erect formwork for outfall Wall (1st side)	9	03-Jul-25	12-Jul-25	-42	0	0%
P11-OF1200	Rebar fixing for outfall base slab	8	12-Jul-25	21-Jul-25	-42	0	0%
P11-OF1210	Outfall Baseslab concreting	1	22-Jul-25	22-Jul-25	-42	0	0%
P11-OF1220	Dismantle Base slab Formwork	2	22-Jul-25	24-Jul-25	-42	0	0%
P11-OF1230	Rebar fixing for outfall Wall	1	24-Jul-25	25-Jul-25	-42	0	0%
P11-OF1240	Erect formwork for outfall Wall (2nd side)	5	25-Jul-25	31-Jul-25	-42	0	0%
P11-OF1250	Outfall Wall concreting	4	31-Jul-25	04-Aug-25	-42	0	0%
P11-OF1260	Dismantle Wall Formwork	3	04-Aug-25	07-Aug-25	-42	0	0%
P11-OF1270	Pipe connection to SMH_KT_6.04A	4	07-Aug-25	11-Aug-25	-42	0	0%
P11-OF1280	Reinstatement by Rockfill and grasscrete	14	12-Aug-25	26-Aug-25	266		0%
Revised Electrical Substation		150	31-Mar-25 A	12-Sep-25	249		16.25%
P11-1340	Electrical substation - Substructure	21	31-Mar-25 A	22-May-25	249		0%
P11-1350	Electrical substation - Superstructure	45	22-May-25	11-Jul-25	249		0%
P11-1360	Electrical substation - ABWF	45	11-Jul-25	27-Aug-25	264		0%
P11-1370	Electrical substation - E&M Works	45	11-Jul-25	27-Aug-25	249		0%



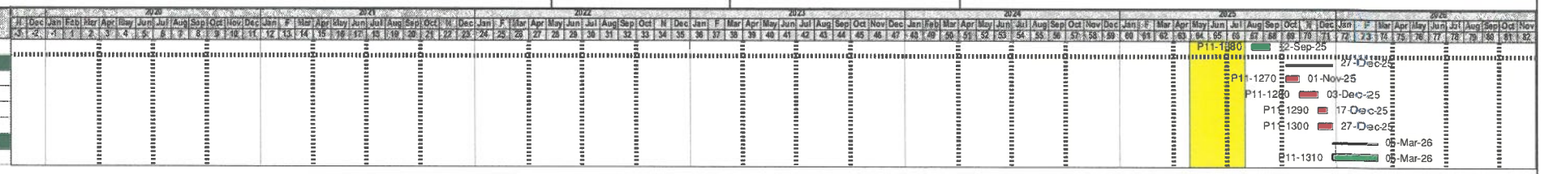
Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
P11-1280	Electrical substation - T&C	30	12-Aug-25	12-Sep-25	249		0%
Hard Paving Works & Remaining Works		72	09-Oct-25	27-Dec-25	-147		0%
P11-1270	Footing for road furniture & backfilling	21	09-Oct-25	01-Nov-25	-147		0%
P11-1280	Concrete paving & road marking	30	01-Nov-25	03-Dec-25	-147		0%
P11-1290	Installation of road lights, road furniture, signages	14	03-Dec-25	17-Dec-25	-147		0%
P11-1300	Landscaping & Remaining Works	21	03-Dec-25	27-Dec-25	-147	3	0%
Defect Rectification Period		60	27-Dec-25	05-Mar-26	94		0%
P11-1310	Rectification to defects works	60	27-Dec-25	05-Mar-26	94	2	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

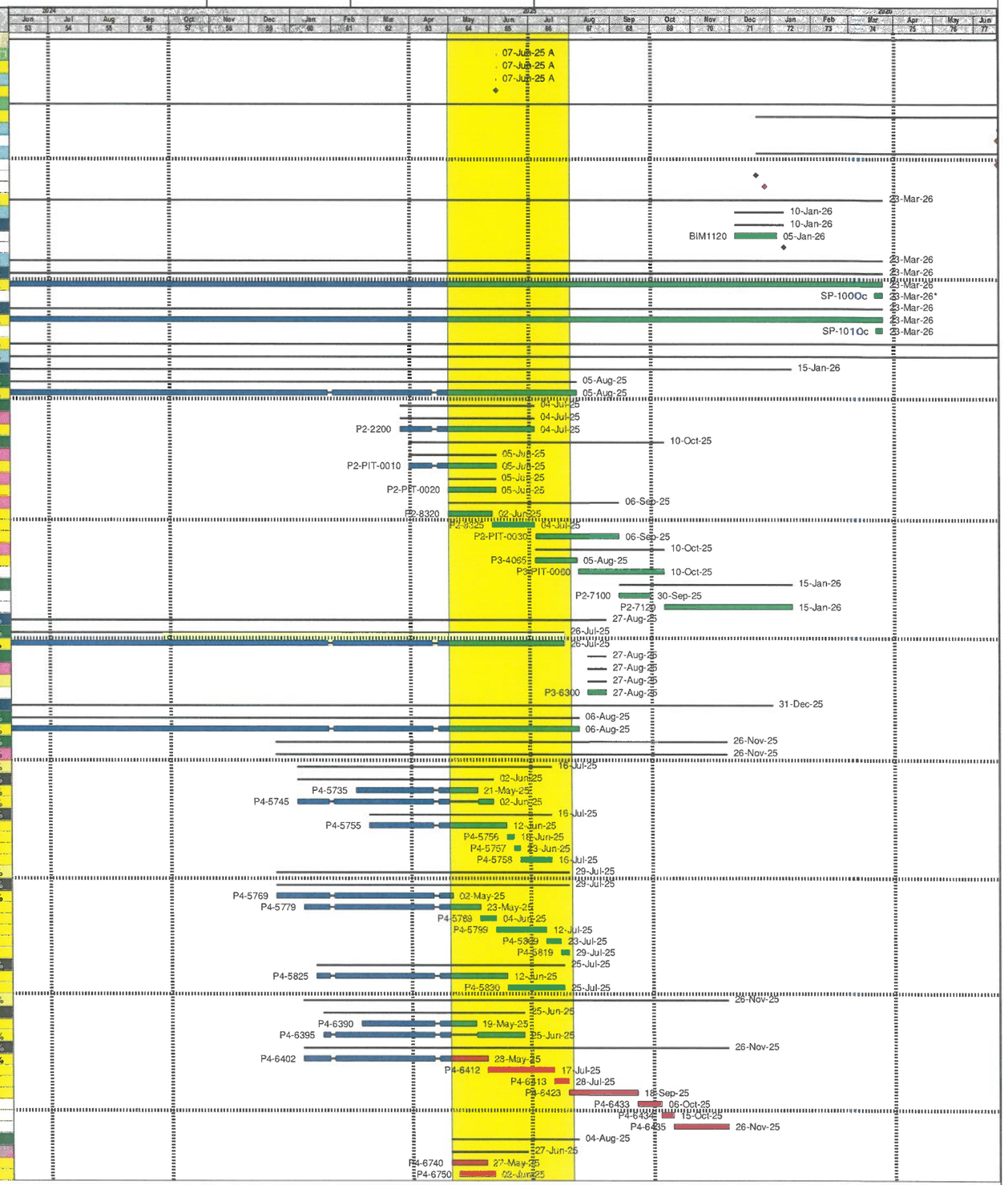
APPENDIX A -
DETAIL MASTER PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
Monthly Programme Update (Apr 2025)		2240	14-Apr-20 A	17-Jun-26	0		83.25%
Contract Data		0	07-Jun-25 A	07-Jun-25 A			0%
Contract Completion Date		0	07-Jun-25 A	07-Jun-25 A			0%
Sectional Completion		0	07-Jun-25 A	07-Jun-25 A			0%
CD-1290	Section5 (1584 days after starting date) (19 Jun 24) - Works in P11	0		07-Jun-25 A		0	100%
Programme Data		2240	14-Apr-20 A	17-Jun-26	0		83.25%
Planned Completion		157	20-Dec-25	17-Jun-26	-90		0%
The Whole of the Works		0	17-Jun-26	17-Jun-26	-100		0%
PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0		17-Jun-26*	-100	0	0%
Sectional Completion		157	20-Dec-25	17-Jun-26	-90		0%
PD1050	Section 2 - Works in P2,3,4,5,6 & 7	0		17-Jun-26*	-100	0	0%
PD1070	Section 4 - Works in P10	0		20-Dec-25*	75	0	0%
PD1090	Section 5 - Works in P11	0		27-Dec-25*	-160	0	0%
Preliminaries		2083	30-Sep-20 A	23-Mar-26	76		85.65%
BIM Submission		33	04-Dec-25	10-Jan-26	141		0%
3. Sewerage Pumping Station		33	04-Dec-25	10-Jan-26	141		0%
BIM1120	Preparation and Submission of BIM Model for updating CSD and CBWD	27	04-Dec-25	05-Jan-26	141		0%
BIM1130	Submission of Fully Coordinated BIM Model (As-built)	0		10-Jan-26	141		0%
Site Offices & Preliminaries		2311	30-Sep-20 A	23-Mar-26	86		85.81%
Temporary office for RE		2001	30-Sep-20 A	23-Mar-26	86		83.61%
SP-1000b	Maintenance of WA2 container office until removal	1192	30-Sep-20 A	23-Mar-26	86	0	72.48%
SP-1000c	Removal of container office in WA2	7	17-Mar-26	23-Mar-26*	86	0	0%
Temporary office for Contractor		1352	17-May-23 A	23-Mar-26	86		75.74%
SP-1010b	Maintenance of WA1 container office until removal (aligned with Section 4A completion date)	1352	17-May-23 A	23-Mar-26	86	0	75.74%
SP-1010c	Removal of container office in WA1 (aligned with Section 4A completion date)	6	18-Mar-26	23-Mar-26	86	0	0%
Works		2035	14-Apr-20 A	17-Jun-26	0		81.56%
Works in Section 2		2035	14-Apr-20 A	17-Jun-26	0		81.56%
Portion 2 - Road & Drains		1798	03-Aug-20 A	15-Jan-26	136		86.71%
Pre-construction works		1564	03-Aug-20 A	05-Aug-25	285		94.25%
P2-1070	Tree Protection and Preservation	1564	03-Aug-20 A	05-Aug-25	285	4	94.25%
Pipe Jacking		60	24-Mar-25 A	04-Jul-25	46		0%
(KT6004A to KT6005A) (IL: 5.9mPD) 2100mm dia		60	24-Mar-25 A	04-Jul-25	46		0%
P2-2200	Grouting and Welding for pipe fitting (598.7m, 10m day)	60	24-Mar-25 A	04-Jul-25	46		0%
Manhole Construction		175	31-Mar-25 A	10-Oct-25	46		14%
SMH_KT6003A & FMH_KT1.26A		33	31-Mar-25 A	05-Jun-25	163		0%
P2-PIT-0010	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003A & 1.26A construction	33	31-Mar-25 A	05-Jun-25	163	1	0%
SMH_KT6003B & FMH_KT1.27A		33	30-Apr-25 A	05-Jun-25	163		0%
P2-PIT-0020	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003B & 1.27A construction	33	30-Apr-25 A	05-Jun-25	163	15	0%
SMH_KT6004A & FMH_KT1.29A		120	30-Apr-25 A	06-Sep-25	54		0%
P2-8320	Manhole FMH_KT1.29A construction	30	30-Apr-25 A	02-Jun-25	54	0	0%
P2-8325	Manhole SMH_KT6004A construction	30	03-Jun-25	04-Jul-25	54	1	0%
P2-PIT-0030	Pit Backfilling and reinstatement of disturb landscape area after manholes 6004A & 1.29A construction	60	05-Jul-25	06-Sep-25	54		0%
SMH_KT6005A & FMH_KT1.33A		90	05-Jul-25	10-Oct-25	36		0%
P3-4065	Manhole SMH_KT6005A construction	30	05-Jul-25	05-Aug-25	46	1	0%
P3-PIT-0060	Pit Backfilling and reinstatement of disturb landscape area after manholes 6005A & 1.33A construction	60	06-Aug-25	10-Oct-25	46		0%
Utilities Works and Signage		119	06-Sep-25	15-Jan-26	46		0%
P2-7100	Installation of Branch Pipe (NS250 PE Pipe) to KT1.29A	22	06-Sep-25	30-Sep-25	54	6	0%
P2-7120	UU (UG 11kV Cable) and signage works	89	10-Oct-25	15-Jan-26	46	14	0%
Portion 3 - Road & Drains		1670	03-Aug-20 A	27-Aug-25	264		93.35%
Pre-construction works		1561	03-Aug-20 A	26-Jul-25	294		94.82%
P3-1060	Tree Protection and Preservation	1561	03-Aug-20 A	26-Jul-25	294	4	94.82%
Drainage Outfall_6013 constuction by Open Cut (By CE-067)		14	13-Aug-25	27-Aug-25	264		0%
Manhole SMH_KT6013A & FMH_KT1.36A		14	13-Aug-25	27-Aug-25	264		0%
Drainage Installation		14	13-Aug-25	27-Aug-25	264		0%
P3-6300	Pipe laying from SMH_KT6005A to SMH_KT6013A (2.1m dia / 8.5m(L))	14	13-Aug-25	27-Aug-25	264		0%
Portion 4 - Road & Drains		1784	03-Aug-20 A	31-Dec-25	150		87.4%
Pre-construction works		1564	03-Aug-20 A	06-Aug-25	284		94.18%
P4-1050	Tree Protection and Preservation	1564	03-Aug-20 A	06-Aug-25	284	4	94.18%
Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)		308	19-Dec-24 A	26-Nov-25	-17		36.94%
Gang 4		308	19-Dec-24 A	26-Nov-25	-17		36.94%
Rising Main CHB700 to CHB750 (50M) Gang 4-3		173	04-Jan-25 A	16-Jul-25	55		58.79%
CHB700-CHB720 (20M)		78	04-Jan-25 A	02-Jun-25	74		62.02%
P4-5735	Bedding and Pipe Laying (Twins DN700)	30	18-Feb-25 A	21-May-25	74		33.33%
P4-5745	RC Works Inspection Chamber and Air Valve Chamber at CHB700	32	04-Jan-25 A	02-Jun-25	74		70.24%
CHB720-CHB750 (30M)		124	28-Feb-25 A	16-Jul-25	55		42.86%
P4-5755	Soft Excavation to F.L. & welding for lagging plate around existing pipe	40	28-Feb-25 A	12-Jun-25	55		0%
P4-5756	Concrete Blinding	5	13-Jun-25	18-Jun-25	55		0%
P4-5757	Bedding and Pipe Laying (Twins DN700)	4	18-Jun-25*	23-Jun-25	55		0%
P4-5758	Backfilling of drain to at grade level from CHB700 to CHB750 (50m)	22	23-Jun-25	16-Jul-25	55		0%
Rising Main CHB750 to CHB867 (118M) Gang 4-4		197	19-Dec-24 A	29-Jul-25	43		57.84%
CHB750-CHB810 (60M)		197	19-Dec-24 A	29-Jul-25	43		57.84%
P4-5769	Soft Excavation to 1st strut level	37	19-Dec-24 A	02-May-25	43		94.59%
P4-5779	Installation of strut S1	40	09-Jan-25 A	23-May-25	43		45%
P4-5789	Welding welding and testing	10	23-May-25	04-Jun-25	43		0%
P4-5799	Soft Excavation to F.L.	35	04-Jun-25	12-Jul-25	43		0%
P4-5809	Concrete Blinding	10	12-Jul-25	23-Jul-25	43		0%
P4-5819	Bedding and Pipe Laying (Twins DN700)	6	23-Jul-25	29-Jul-25	43		0%
CHB810-CHB867 (57M)		169	18-Jan-25 A	25-Jul-25	46		52.54%
P4-5825	RC Works Inspection Chamber at CHB867	40	18-Jan-25 A	12-Jun-25	46		0%
P4-5830	Backfilling of drain to at grade level from CHB750 to CHB867	40	13-Jun-25	25-Jul-25	46		0%
Rising Main CHB867 to CHB974 (107M) Gang 4-5		293	08-Jan-25 A	26-Nov-25	-17		33.71%
CHB867-CHB900 (33M)		42	23-Jan-25 A	25-Jun-25	86		0%
P4-6390	Bedding and Pipe Laying (Twins DN700)	18	21-Feb-25 A	19-May-25	86		0%
P4-6395	RC Works DAV Chamber at CHB960	40	23-Jan-25 A	25-Jun-25	86		13.33%
CHB900-CHB974 (74M)		293	08-Jan-25 A	26-Nov-25	-17		33.71%
P4-6402	Soft Excavation to 1st strut level	46	08-Jan-25 A	28-May-25	-17		43.48%
P4-6412	Installation of strut S1	46	28-May-25	17-Jul-25	-17		0%
P4-6413	Welling welding and testing	10	17-Jul-25	28-Jul-25	-17		0%
P4-6423	Soft Excavation to F.L.	50	28-Jul-25	18-Sep-25	-17		0%
P4-6433	Concrete Blinding	15	18-Sep-25	06-Oct-25	-17		0%
P4-6434	Bedding and Pipe Laying (Twins DN700)	8	06-Oct-25	15-Oct-25	-17		0%
P4-6435	Backfilling of drain to at grade level from CHB900 to CHB974	39	15-Oct-25*	26-Nov-25	-17		0%
NS 250 PE Pipe Installation (From KT6.07A to KT6.01) [190.226m]		88	30-Apr-25 A	04-Aug-25	-47		0%
Sewer Pipeline FMH_KT6.06A to FMH_KT6.04A[62.86m] (53.153m+9.707m)		54	30-Apr-25 A	27-Jun-25	-13		0%
P4-6740	Sheet Pile Installation for open trench (2.5m embedment depth, 3.5m retaining height)	25	30-Apr-25 A	27-May-25	-147		0%
P4-6750	Soft Excavation to F.L +3.2mPD	25	06-May-25	02-Jun-25	-13		0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

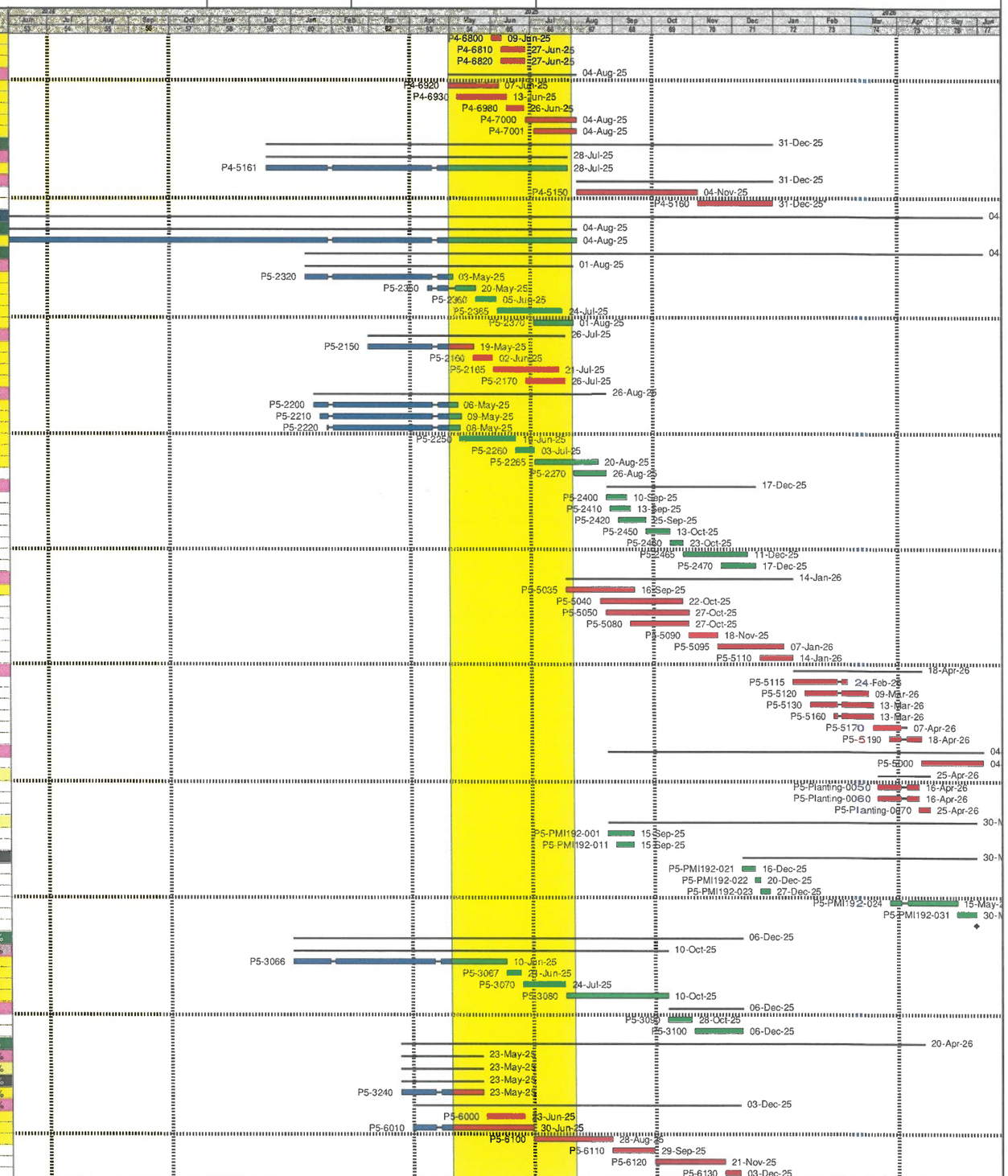
APPENDIX B - THREE MONTH ROLLING PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

#	Activity ID	Activity Name	Duration	Start	Finish	Total Float	FRA	Duration % Complete
97	P4-6800	Bedding and Pipe Laying (NS 250 HDPE Pipe)	7	02-Jun-25	09-Jun-25	-13		0%
98	P4-6810	RC Works of KT6.05A and KT6.04A	17	09-Jun-25	27-Jun-25	-13		0%
99	P4-6820	Backfilling of drain to at grade level and extraction of sheet pile	18	09-Jun-25	27-Jun-25	-13		0%
100	Sewer Pipeline FMH_KT6.04A to FMH_KT6.01A[127.366m] (16.208m+59.625m+51.533m)		88	30-Apr-25 A	04-Aug-25	-47		0%
101	P4-6920	Sheet Pile Installation to proposed toe level +0.7mPD (2.5m embedment depth, 3.5m retaining height)	35	30-Apr-25 A	07-Jun-25	-147		0%
102	P4-6930	Lower down existing ground +6.7mPD to form final excavation level +3.2mPD with 35 degree cut slope at other side	35	07-May-25	13-Jun-25	-147		0%
103	P4-6980	Bedding and Pipe Laying (NS 250 HDPE Pipe)	12	13-Jun-25	26-Jun-25	-147		0%
104	P4-7000	RC Works of KT6.03A, KT6.02A and KT6.01A	35	27-Jun-25	04-Aug-25	-147		0%
105	P4-7001	Backfilling of drain to at grade level and extraction of sheet pile	30	03-Jul-25	04-Aug-25	-47		0%
106	Reinstatement		345	13-Dec-24 A	31-Dec-25	-47		34.78%
107	Slope Reinstatement		43	13-Dec-24 A	28-Jul-25	95		0%
108	P4-5161	Grasscrete laying works for river embankment along Sheung Yue River from CHB860 - CHB980	43	13-Dec-24 A	28-Jul-25	95		0%
109	Remaining Reinstatement Works		136	04-Aug-25	31-Dec-25	-47		0%
110	P4-5150	Utilities Works (Telecom & electricity)	84	04-Aug-25	04-Nov-25	-47	14	0%
111	P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	52	04-Nov-25	31-Dec-25*	-47	30	0%
112	Portion 5 - Sewage Rising Main		2023	14-Apr-20 A	04-Jun-26	12		82.06%
113	Preparation Works		1663	14-Apr-20 A	04-Aug-25	286		94.66%
114	P5-5030	Tree Protection and Preservation	1663	14-Apr-20 A	04-Aug-25	286	4	94.66%
115	Sewage Rising Main Installation by Open Cut (CHB1056 to CHB1557)		459	11-Jan-25 A	04-Jun-26	12		20.84%
116	CHB1056 - CHB1102 (46m)		182	11-Jan-25 A	01-Aug-25	156		52.44%
117	P5-2320	Installation of strut S1	20	11-Jan-25 A	03-May-25	156	2	83.33%
118	P5-2350	Soft Excavation to F.L.	15	14-Apr-25 A	20-May-25	156	2	0%
119	P5-2360	Bedding and Pipe Laying (Twins DN700)	14	21-May-25	05-Jun-25	156	2	0%
120	P5-2365	RC Works Inspection Chamber and Air Valve Chamber at CHB1050	46	06-Jun-25	24-Jul-25	156		0%
121	P5-2370	Backfilling to at grade level	29	03-Jul-25	01-Aug-25	156	2	0%
122	CHB1102 - CHB1151 (49m)		198	28-Feb-25 A	26-Jul-25	-78		39.98%
123	P5-2150	Soft Excavation to F.L.	50	28-Feb-25 A	19-May-25	-78	2	66.44%
124	P5-2160	Bedding and Pipe Laying (Twins DN700)	13	19-May-25	02-Jun-25	-78	2	0%
125	P5-2165	RC Works Inspection Chamber and Air Valve Chamber at CHB1127	45	03-Jun-25	21-Jul-25	-78		0%
126	P5-2170	Backfilling to at grade level	27	27-Jun-25	26-Jul-25	-78	2	0%
127	CHB1151 - CHB1200 (49m)		198	17-Jan-25 A	26-Aug-25	29		44.88%
128	P5-2200	Sheet Pile Installation for open trench	15	17-Jan-25 A	06-May-25	29	2	65.47%
129	P5-2210	Soft Excavation to 1st strut level	15	22-Jan-25 A	09-May-25	29	2	43.07%
130	P5-2220	Installation of strut S1	21	27-Jan-25 A	08-May-25	29	2	64.02%
131	P5-2250	Soft Excavation to F.L.	39	08-May-25	19-Jun-25	29	2	0%
132	P5-2260	Bedding & Pipe Laying (Twins DN700)	12	19-Jun-25	03-Jul-25	29	2	0%
133	P5-2265	RC Works Inspection Chamber and Air Valve Chamber	46	03-Jul-25	20-Aug-25	29		0%
134	P5-2270	Backfilling to at grade level	22	02-Aug-25	26-Aug-25	29	2	0%
135	CHB1300 - CHB 1359 (59m)		105	26-Aug-25	17-Dec-25	29		0%
136	P5-2400	Sheet Pile Installation for open trench	15	26-Aug-25	10-Sep-25	29	2	0%
137	P5-2410	Soft Excavation to 1st strut level	15	29-Aug-25	13-Sep-25	29	2	0%
138	P5-2420	Installation of strut S1	20	04-Sep-25	25-Sep-25	29	2	0%
139	P5-2450	Soft Excavation to F.L.	15	25-Sep-25	13-Oct-25	29	2	0%
140	P5-2460	Bedding and Pipe Laying (Twins DN700)	10	13-Oct-25	23-Oct-25	29	2	0%
141	P5-2465	RC Works Inspection Chamber and Air Valve Chamber at CHB1337	45	23-Oct-25	11-Dec-25	29		0%
142	P5-2470	Backfilling to at grade level	25	21-Nov-25	17-Dec-25	29	2	0%
143	CHB1359 - CHB 1478 (119m)		157	26-Jul-25	14-Jan-26	-78		0%
144	P5-5035	Sheet Pile Installation for open trench	49	26-Jul-25	16-Sep-25	-78	2	0%
145	P5-5040	Soft Excavation to 1st strut level	57	21-Aug-25	22-Oct-25	-78	2	0%
146	P5-5050	Installation of strut S1	58	25-Aug-25	27-Oct-25	-78	2	0%
147	P5-5080	Soft Excavation to F.L.	39	13-Sep-25	27-Oct-25	-78	2	0%
148	P5-5090	Bedding and Pipe Laying (Twins DN700)	20	27-Oct-25	18-Nov-25	-78	2	0%
149	P5-5095	RC Works Inspection Chamber and Air Valve Chamber at CHB1457	45	18-Nov-25	07-Jan-26	-78		0%
150	P5-5110	Backfilling to at grade level	20	20-Dec-25	14-Jan-26	-78	2	0%
151	CHB1478 - CHB 1557 (79m)		84	14-Jan-26	18-Apr-26	-78		0%
152	P5-5115	Sheet Pile Installation for open trench	36	14-Jan-26	24-Feb-26	-78	2	0%
153	P5-5120	Soft Excavation to 1st strut level	39	23-Jan-26	09-Mar-26	-78	2	0%
154	P5-5130	Installation of strut S1	40	27-Jan-26	13-Mar-26	-78	2	0%
155	P5-5160	Soft Excavation to F.L.	21	14-Feb-26	13-Mar-26	-78	2	0%
156	P5-5170	Bedding and Pipe Laying (Twins DN700)	20	13-Mar-26	07-Apr-26	-78	2	0%
157	P5-5190	Backfilling to at grade level	20	25-Mar-26	18-Apr-26	-78	2	0%
158	Reinstatement		234	26-Aug-25	04-Jun-26	12		0%
159	P5-5000	Underground Utilities & Road reinstatement and Reinstatement of disturbed landscape area	42	18-Apr-26	04-Jun-26	-78	14	0%
160	Additional Landscaping Works		36	16-Mar-26	25-Apr-26	-42		0%
161	P5-Planting-0050	Shrubs Planting 591m along Shek Sheung River (6nos. Ficus microcarpa (golden) x 3m intervals) (500mm)	27	16-Mar-26	16-Apr-26	-42		0%
162	P5-Planting-0060	Shrubs Planting 591m along Shek Sheung River (6 nos. Lxora chinensis x 3m intervals) (500mm)	27	16-Mar-26	16-Apr-26	-42		0%
163	P5-Planting-0070	Planter watering	9	16-Apr-26	25-Apr-26	-42		0%
164	PMI No. 192 - Additional Soiling, Planting & Assoc. Reinstatement Works		249	26-Aug-25	30-May-26	17		0%
165	P5-PMI192-001	5 tree stumps (existing tree pits), debris and weeds removal works	19	26-Aug-25	15-Sep-25	173	6	0%
166	P5-PMI192-011	Removal of 14 sets of existing tree grilles	12	01-Sep-25	15-Sep-25	173		0%
167	Tree Plantation (14 Lagerstroemia Speciosa Tree)		154	06-Dec-25	30-May-26	17		0%
168	P5-PMI192-021	Installation of 2 Trees (at existing pits) near CHB1060	9	06-Dec-25	16-Dec-25	97	2	0%
169	P5-PMI192-022	Installation of 1 Tree (at existing pit) near CHB1150	4	16-Dec-25	20-Dec-25	97	1	0%
170	P5-PMI192-023	Installation of 1Tree (at existing pit) near CHB1210	4	20-Dec-25	27-Dec-25	97	1	0%
171	P5-PMI192-024	Installation of 10 Trees (at existing pits) located between CHB1470 to CHB1569	44	25-Mar-26	15-May-26	17	10	0%
172	P5-PMI192-031	Reinstatement of 14 sets of tree grilles after Tree planting	12	15-May-26	30-May-26	17		0%
173	P5-PMI192-041	Obtain PM/Supervisor Acceptance for Tree Planting works	0		30-May-26	19		0%
174	CHB982 to CHB1046 [64M] Sewage Rising Main Installation across Sheung Yue River by Pipejacking		309	31-Dec-24 A	06-Dec-25	97		34.16%
175	Pipe Jacking		256	31-Dec-24 A	10-Oct-25	97		41.29%
176	P5-3066	Failed to pipe jack for the remaining pipe jacking works, TBM retrieval remedial works	12	31-Dec-24 A	10-Jun-25	97		0%
177	P5-3067	Alternate method of applied for the remaining pipe jacking works	11	11-Jun-25	21-Jun-25	97		0%
178	P5-3070	Removal of TBM (3m dia)	30	23-Jun-25	24-Jul-25	97	0	0%
179	P5-3080	Rising Main pipe laying (Triple DN700 housed in DN3000 Sleeve Pipe, 2.6m/day), Grouting and Pressure Test	71	25-Jul-25	10-Oct-25	97	3	0%
180	Reinstatement		53	10-Oct-25	06-Dec-25	97		0%
181	P5-3090	Construction of Switch Over chamber/D.A.V chamber at CHB1035	18	10-Oct-25	28-Oct-25	97	1	0%
182	P5-3100	Backfilling to at grade level	36	30-Oct-25	06-Dec-25	97	2	0%
183	CHB1680 to CHB1560 [120M] Sewage Rising Main Installation across Shek Sheung River by Pipejacking		353	22-Mar-25 A	20-Apr-26	-36		9.03%
184	ELS		30	22-Mar-25 A	23-May-25	-77		27.34%
185	JACKING PIT CHB1680		30	22-Mar-25 A	23-May-25	-77		27.34%
186	Trial grout at CHB1680 for horizontal grout		30	22-Mar-25 A	23-May-25	-77		27.34%
187	P5-3240	Trial grout at CHB1680 for horizontal grout & microtremer	30	22-Mar-25 A	23-May-25	-77		27.34%
188	PIPE JACKING (CHB1680 to CHB1560)		225	31-Mar-25 A	03-Dec-25	-42		10.84%
189	P5-6000	TBM transport & setup at Jacking Pit CHB1680 (driven by P5-3070)	28	26-May-25*	23-Jun-25	-89		0%
190	P5-6010	Additional G.I Works for DN3000 Pipe Jacking Across Shek Sheung River (PMI-284)	56	31-Mar-25 A	30-Jun-25	-85		0%
191	P5-6100	Pipe Jacking from CHB1680 to CHB1560 (120m)	56	30-Jun-25	28-Aug-25	-85		0%
192	P5-6110	Removal of TBM & gears and grouting works	30	28-Aug-25	29-Sep-25	-85		0%
193	P5-6120	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	48	29-Sep-25	21-Nov-25	-42	3	0%
194	P5-6130	Water pressure test and grouting of pipeline (driver P6-5150)	11	22-Nov-25*	03-Dec-25	-42		0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX B - THREE MONTH ROLLING PROGRAMME

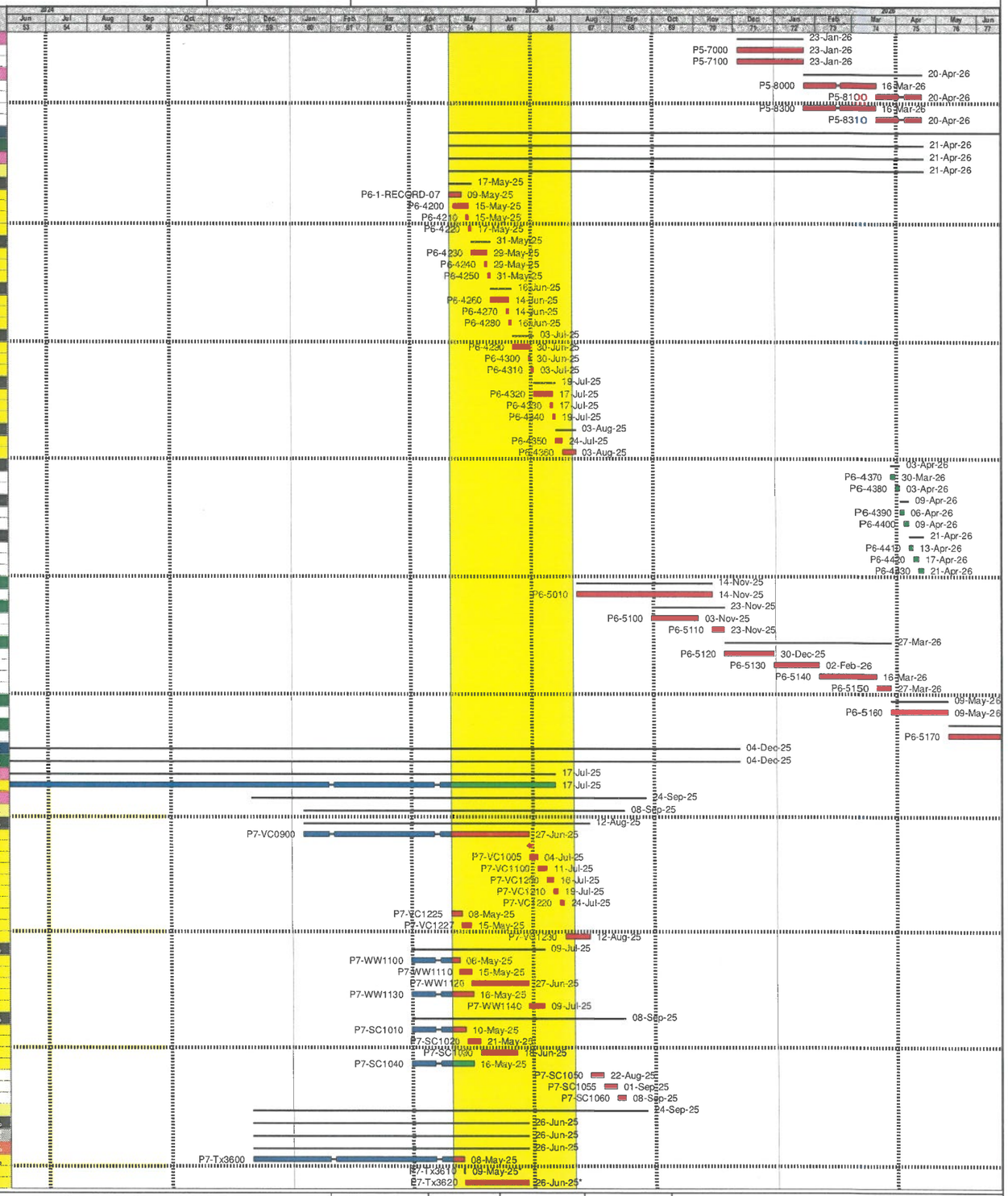
Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: DD+3M Lookahead_1.
Layout: ND/2019/02_MPU_Apr_2025 (3MRP)

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
MANHOLE		45	04-Dec-25	23-Jan-26	-36		0%
P5-7000	Construction of Manhole at CHB1545 (D.A.V chamber CHB1541)	45	04-Dec-25	23-Jan-26	-42	3	0%
P5-7100	Construction of Manhole at CHB1680 (Driver P6-5110 predecessor FS)	45	04-Dec-25*	23-Jan-26	-36		0%
REINSTATEMENT		75	23-Jan-26	20-Apr-26	-36		0%
P5-8000	CHB1560 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-42	3	0%
P5-8100	Reinstatement works at CHB1560	30	16-Mar-26	20-Apr-26	-42		0%
P5-8300	CHB1680 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-36		0%
P5-8310	Reinstatement works at CHB1680	30	16-Mar-26	20-Apr-26	-36		0%
Portion 6 - CHB1680 to CHB1740 [60M] Sewage Pipe Jacking across Shek Sheung River and MTRC near SWH		375	30-Apr-25 A	17-Jun-26	0		0%
ELS (CHB1740)		322	30-Apr-25 A	21-Apr-26	53		0%
Construction of Receiving Pit at CHB1740 (SWH) and Pumping Test		322	30-Apr-25 A	21-Apr-26	53		0%
Excavation		322	30-Apr-25 A	21-Apr-26	53		0%
Stage 5 (+2.00 mPD) | 3rdLayer		16	30-Apr-25 A	17-May-25	-90		0%
P6-1-RECORD-07	Breaking unforeseen abandoned concrete pipe (NCE-146)	9	30-Apr-25 A	09-May-25	-90		0%
P6-4200	Install 3rd layer of walling & strut	12	03-May-25	15-May-25	-100	1	0%
P6-4210	Dewater to 1000mm below 4th layer of walling & strut	2	13-May-25	15-May-25	-100	1	0%
P6-4220	Excavate to 500mm below 4th layer of walling & strut	2	15-May-25	17-May-25	-100	1	0%
Stage 6 (-0.50 mPD) | 4th Layer		14	17-May-25	31-May-25	-100		0%
P6-4230	Install 4th layer of walling & strut	12	17-May-25	29-May-25	-100	1	0%
P6-4240	Dewater to 1000mm below 5th layer of walling & strut	2	27-May-25	29-May-25	-100	1	0%
P6-4250	Excavate to 500mm below 5th layer of walling & strut	2	29-May-25	31-May-25	-100	1	0%
Stage 7 (-2.50 mPD) | 5th Layer		16	31-May-25	16-Jun-25	-100		0%
P6-4260	Install 5th layer of walling & strut	14	31-May-25	14-Jun-25	-100	1	0%
P6-4270	Dewater to 1000mm below 6th layer of walling & strut	2	12-Jun-25	14-Jun-25	-100	1	0%
P6-4280	Excavate to 500mm below 6th layer of walling & strut	2	14-Jun-25	16-Jun-25	-100	1	0%
Stage 8 (-4.50 mPD) | 6th Layer		16	17-Jun-25	03-Jul-25	-100		0%
P6-4290	Install 6th layer of walling & strut	14	17-Jun-25	30-Jun-25	-100	1	0%
P6-4300	Dewater to 1000mm below 7th layer of walling & strut	2	29-Jun-25	30-Jun-25	-100	1	0%
P6-4310	Excavate to 500mm below 7th layer of walling & strut	2	01-Jul-25	03-Jul-25	-100	1	0%
Stage 9 (-6.00 mPD) | 7th Layer		16	03-Jul-25	19-Jul-25	-100		0%
P6-4320	Install 7th layer of walling & strut	14	03-Jul-25	17-Jul-25	-100	1	0%
P6-4330	Dewater to 1000mm below the Final Level Excavation Level	2	15-Jul-25	17-Jul-25	-100	1	0%
P6-4340	Excavate 500mm below the Final Level Excavation Level	2	17-Jul-25	19-Jul-25	-100	1	0%
Stage 10 (-7.921 mPD) | Blinding Layer		15	19-Jul-25	03-Aug-25	-100		0%
P6-4350	Construct 200mm Blinding Layer at T.L=-7.921mPD.	5	19-Jul-25	24-Jul-25	-100	1	0%
P6-4360	Remove 7th and 6th layer of walling & strut	10	24-Jul-25	03-Aug-25	-100	1	0%
Stage 11		7	27-Mar-26	03-Apr-26	58		0%
P6-4370	Backfill to T.L.=-3.00mPD.	3	27-Mar-26	30-Mar-26	58	1	0%
P6-4380	Remove 5th layer of walling & strut	3	31-Mar-26	03-Apr-26	58	1	0%
Stage 12		7	03-Apr-26	09-Apr-26	58		0%
P6-4390	Backfill to T.L.=-1.00mPD.	3	03-Apr-26	06-Apr-26	58	1	0%
P6-4400	Remove 4th layer of walling & strut	3	06-Apr-26	09-Apr-26	58	1	0%
Stage 13		11	10-Apr-26	21-Apr-26	58		0%
P6-4410	Backfill to T.L.=+0.03mPD.	3	10-Apr-26	13-Apr-26	58	1	0%
P6-4420	Construct Blinding laverat T.L.=0.03mPD.	4	13-Apr-26	17-Apr-26	58	1	0%
P6-4430	Remove 3rd layer of walling & strut	3	17-Apr-26	21-Apr-26	58	1	0%
GROUND TREATMENT		103	03-Aug-25	14-Nov-25	-100		0%
P6-5010	Horizontal ground treatment & testing at CHB1740 (49 NTH 3-hr shift, 4nights/wk)	103	03-Aug-25	14-Nov-25	-100		0%
PIPE JACKING (CHB1680 to CHB1703)		54	29-Sep-25	23-Nov-25	-100		0%
P6-5100	Tunnel Boring Machine (TBM) setup and assembly at Jacking Pit CHB1680	35	29-Sep-25*	03-Nov-25	-89		0%
P6-5110	Pipe Jacking from CHB1680 to CHB1703 (23m, Daywork)	9	14-Nov-25	23-Nov-25	-100		0%
PIPE JACKING (CHB1703 to CHB1740)		124	23-Nov-25	27-Mar-26	-100		0%
P6-5120	Pipe Jacking from CHB1703 to CHB1740 (37m, 23 NTH, 4nights/wk)	37	23-Nov-25	30-Dec-25	-100		0%
P6-5130	Removal of TBM and gears and grouting works	34	30-Dec-25	02-Feb-26	-100		0%
P6-5140	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	42	02-Feb-26	16-Mar-26	-100	3	0%
P6-5150	Water pressure test and grouting of pipeline (driving P5-6130)	11	16-Mar-26	27-Mar-26	-100		0%
MANHOLE		43	27-Mar-26	09-May-26	-100		0%
P6-5160	Construction of Manhole SSM1 at CHB1752	43	27-Mar-26	09-May-26	-100		0%
REINSTATEMENT		39	09-May-26	17-Jun-26	-100		0%
P6-5170	CHB1740 Pit Backfilling and reinstatement	39	09-May-26	17-Jun-26	-100	3	0%
Portion 7 - Kwu Tung North Sewage Pumping station		1760	03-Aug-20 A	04-Dec-25	174		88.56%
Sewage Pumping Station		1760	03-Aug-20 A	04-Dec-25	174		88.56%
Site Preparation		1545	03-Aug-20 A	17-Jul-25	303		95.33%
P7-1040	Tree Protection and Preservation	1545	03-Aug-20 A	17-Jul-25	303	4	95.33%
ABWF/ E&M Works		411	30-Nov-24 A	24-Sep-25	39		66.5%
Basement Floor		395	09-Jan-25 A	08-Sep-25	21		69.18%
Valve Chamber		370	09-Jan-25 A	12-Aug-25	-134		73.87%
P7-VC0900	Dismantling Falsework from R/F to B/F	60	09-Jan-25 A	27-Jun-25	-159		9.26%
P7-VC1000	Access Date of Valve Chamber Builders works	0	28-Jun-25		-159		0%
P7-VC1005	Concrete Defect Repairing	5	28-Jun-25	04-Jul-25	-159	0	0%
P7-VC1100	Concrete Plinth for resting the twins rising mains	7	04-Jul-25	11-Jul-25	-159	0	0%
P7-VC1200	Waterproofing works of Valve Chamber	4	11-Jul-25	16-Jul-25	-159	0	0%
P7-VC1210	Flooding Test and Infra Red test after waterproofing	4	16-Jul-25	19-Jul-25	-159	0	0%
P7-VC1220	Floor Screed	4	21-Jul-25	24-Jul-25	-159	0	0%
P7-VC1225	Erect working platform from +1.55mPD to +7.65mPD for Steel Staircase Installation	7	30-Apr-25 A	08-May-25	-52	0	0%
P7-VC1227	Steel Staircase Installation (+1.55mPD to +4.35mPD)	7	08-May-25*	15-May-25	-52	0	0%
P7-VC1230	Twins rising mains Installation with connection to wet well and outside external area	18	25-Jul-25	12-Aug-25	-159	0	0%
Wet Well		88	31-Mar-25 A	09-Jul-25	-102		27.64%
P7-WW1100	Scaffolding and working platform modification	5	31-Mar-25 A	06-May-25	-127	0	0%
P7-WW1110	Wall and Ceiling Waterproofing, testing and screeding	9	06-May-25	15-May-25	-127	0	0%
P7-WW1120	Submersible Sewerage Pump Installation and Pipe Connection to Valve Chamber	40	15-May-25	27-Jun-25	-127	0	0%
P7-WW1130	Cat Ladder Installation	15	31-Mar-25 A	16-May-25	-53	0	0%
P7-WW1140	Filling of Void of wet well	10	27-Jun-25	09-Jul-25	-127	0	0%
Screen Chamber & Retention Tank		146	31-Mar-25 A	08-Sep-25	21		16.72%
P7-SC1010	Scaffolding and working platform erection	10	31-Mar-25 A	10-May-25	-108	0	0%
P7-SC1020	Wall and Ceiling Waterproofing & Testing	10	12-May-25	21-May-25	-108	0	0%
P7-SC1030	Pipe work Installation and Bar Screen Installation	25	22-May-25	18-Jun-25	-108	0	0%
P7-SC1040	Cat Ladder / Penstock Installation (Additional works under PMI-275)	15	31-Mar-25 A	16-May-25	128	0	0%
P7-SC1050	T&C for Basement Floor Equipment	10	13-Aug-25	22-Aug-25	-159	0	0%
P7-SC1055	Application of protective lining to all wet surfaces	9	23-Aug-25	01-Sep-25	-159		0%
P7-SC1060	Water tightness testing for retention tank	6	02-Sep-25	08-Sep-25	-159		0%
Ground Floor		269	30-Nov-24 A	24-Sep-25	39		48.8%
Tx Room / Switch Room		184	30-Nov-24 A	26-Jun-25	-118		71.45%
BS Works		184	30-Nov-24 A	26-Jun-25	-118		71.45%
CLP works & Statutory Inspection		184	30-Nov-24 A	26-Jun-25	-118		71.45%
P7-Tx3600	CLP Installation Works	60	30-Nov-24 A	08-May-25	-118	2	87.22%
P7-Tx3610	Energization of Tx Equipment	1	08-May-25	09-May-25*	-118	2	0%
P7-Tx3620	CLP Electric Meter Installation	44	09-May-25	26-Jun-25*	-118	2	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

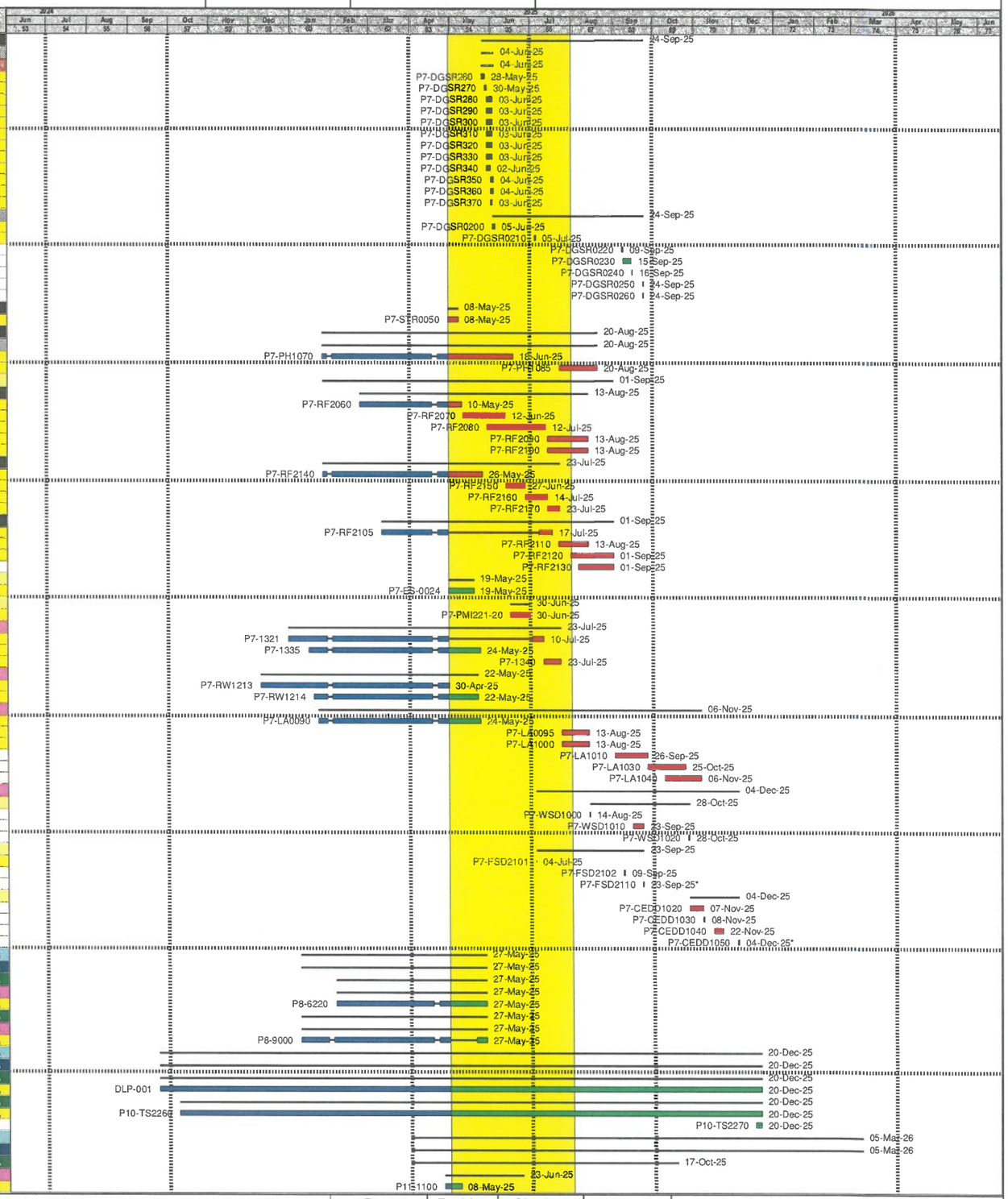
Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX B - THREE MONTH ROLLING PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: DD+3M Lookahead_1.
Layout: ND/2019/02_MPU_Apr_2025 (3MRP)

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA	Duration % Complete
	Dangerous Goods Storage Room (DGSR) | PMI No. 202	114	26-May-25	24-Sep-25	39		0%
	E&M & ABWF Works	8	26-May-25	04-Jun-25	120		0%
	Installation	8	26-May-25	04-Jun-25	120		0%
P7-DGSR260	2 Fire Damper with ET Link	3	26-May-25*	28-May-25	120		0%
P7-DGSR270	1 FM200 fixed spray unit, sand bucket and fire extinguisher	2	28-May-25*	30-May-25	120		0%
P7-DGSR280	1 Intrinsically safe heat detector with module and barriers including softwarem MICC cable and programming	3	30-May-25*	03-Jun-25	120		0%
P7-DGSR290	1 Additional weatherproof alarm bell with control module	3	30-May-25	03-Jun-25	120		0%
P7-DGSR300	1 Additional weatherproof Breakglass unit	3	30-May-25	03-Jun-25	120		0%
P7-DGSR310	1 Additional weatherproof Remote Light with module	3	30-May-25	03-Jun-25	120		0%
P7-DGSR320	5 Additional Module for ETL and Manual release unit	3	30-May-25	03-Jun-25	120		0%
P7-DGSR330	1 Additional Loop card for AFA panel	3	30-May-25	03-Jun-25	120		0%
P7-DGSR340	1 Additional DG signage	1	30-May-25	02-Jun-25	120		0%
P7-DGSR350	1 Manual release unit with SS marshaling box	3	02-Jun-25*	04-Jun-25	120		0%
P7-DGSR360	2 Intrinsically safe lighting	3	02-Jun-25	04-Jun-25	120		0%
P7-DGSR370	1 Additional charger and battery	2	02-Jun-25	03-Jun-25	120		0%
	Statutory Inspection	107	03-Jun-25	24-Sep-25	39		0%
P7-DGSR0200	Overall T&C	2	03-Jun-25	05-Jun-25	120		0%
P7-DGSR0210	Submit FS Form for FSD Inspection	1	04-Jul-25	05-Jul-25	93		0%
P7-DGSR0220	FSD Inspection	1	08-Sep-25	09-Sep-25	39		0%
P7-DGSR0230	Defect rectification and Submit Form for Re-inspection	6	09-Sep-25	15-Sep-25	39		0%
P7-DGSR0240	2nd round FS Inspection	1	16-Sep-25	16-Sep-25	39		0%
P7-DGSR0250	Issue Fire Certificate	1	24-Sep-25	24-Sep-25	39		0%
P7-DGSR0260	Issue WR1/WR2 and FS251	1	24-Sep-25	24-Sep-25	39		0%
	Staff Toilet Room	7	30-Apr-25	08-May-25	-45		0%
P7-STR0050	BS installation works	7	30-Apr-25	08-May-25	-45		0%
	Pump Hall	187	25-Jan-25 A	20-Aug-25	-142		44.05%
	BS Works	187	25-Jan-25 A	20-Aug-25	142		44.05%
P7-PH1070	T&C of Pump Hall Equipments & connection of AFA system to Megalink	45	25-Jan-25 A	18-Jun-25	-110	0	0%
P7-PH1085	Overall System T&C before FSD Inspection	28	23-Jul-25	20-Aug-25	-142	2	0%
	Roof Floor	197	25-Jan-25 A	01-Sep-25	-23		41.38%
	ABWF	157	22-Feb-25 A	13-Aug-25	-23		37.59%
P7-RF2060	Laying Insulation board with protection floor screed	10	22-Feb-25 A	10-May-25	-142	0	0%
P7-RF2070	Laying Floor finishes	30	12-May-25	12-Jun-25	-142	0	0%
P7-RF2080	Roof water tank installation & testing	40	30-May-25	12-Jul-25	-23	0	0%
P7-RF2090	Roof Skylight Installation	30	14-Jul-25	13-Aug-25	-23	0	0%
P7-RF2100	Roof Balustrade & Fall Arrest system Installation	30	14-Jul-25	13-Aug-25	-23	0	0%
	BS Works	158	25-Jan-25 A	23-Jul-25	-142		51.47%
P7-RF2140	BS 1st Fixing (Elec, Water, Irrigation piping)	27	25-Jan-25 A	26-May-25	-126	0	10%
P7-RF2150	BS 2nd Fixing (Elec, Water, Irrigation System connection)	14	13-Jun-25	27-Jun-25	-142	0	0%
P7-RF2160	BS final Fixing	14	27-Jun-25	14-Jul-25	-142	0	0%
P7-RF2170	T&C of Roof BS System	9	14-Jul-25	23-Jul-25	-142	0	0%
	Landscape Works	159	10-Mar-25 A	01-Sep-25	-23		65.9%
P7-RF2105	Roof Planters Drainages, Irrigation pipe, Artifical Granite Tile Installation	27	10-Mar-25 A	17-Jul-25	-19	0	60.42%
P7-RF2110	Soil Backfilling to Roof Planters	22	22-Jul-25	13-Aug-25	-23	0	0%
P7-RF2120	Shurbs Planting works to roof floor (5,802 nos)	31	31-Jul-25	01-Sep-25	-23	0	0%
P7-RF2130	Water Points installation for Irrigation	25	06-Aug-25	01-Sep-25	-23	0	0%
	External Staircase	18	30-Apr-25 A	19-May-25	23		0%
P7-ES-0024	Laying of staircase finishes	18	30-Apr-25 A	19-May-25	23		0%
	PMI-200 Revised Layout of Boundary Fence Wall to Suit DSD Maintenance Requirement	14	16-Jun-25	30-Jun-25	-24		0%
P7-PMI221-20	Construction of boundary fence wall of KTN SPS with revised layout and footing details	14	16-Jun-25*	30-Jun-25	-24	4	0%
	External Finishes	184	30-Dec-24 A	23-Jul-25	24		57.83%
P7-1321	Fence Wall Gate Installation	36	30-Dec-24 A	10-Jul-25	-24	3	76.22%
P7-1335	FRR Shutters installation	36	14-Jan-25 A	24-May-25	19	3	38.11%
P7-1340	Removal of external scaffolding	12	10-Jul-25	23-Jul-25	-24	2	0%
	Retaining Wall & U trough	66	09-Dec-24 A	22-May-25	33		68.24%
P7-RW1213	Construction of U Trough RC Structure wall (KW08 Type A)rWall Founding level +6.2mPD)	45	09-Dec-24 A	30-Apr-25	33	3	99.02%
P7-RW1214	Backfill to formation level to +7.5mPD	30	18-Jan-25 A	22-May-25	33	3	30.37%
	Landscape Works	260	21-Jan-25 A	06-Nov-25	-23		32.98%
P7-LA0090	Climber Installation with Vertical Planting	30	21-Jan-25 A	24-May-25	31	2	23.33%
P7-LA0095	Placing irrigation pipe and Planting Soil near main entrance of SPS	20	24-Jul-25	13-Aug-25	-24	2	0%
P7-LA1000	Placing irrigation pipe and Planting Soil Near Retaining Wall RW-08	20	24-Jul-25	13-Aug-25	-24	2	0%
P7-LA1010	Tree Planting (7nos. Tm & 7nos.Tp) Near Retaining Wall RW-08	24	02-Sep-25	26-Sep-25	-23	2	0%
P7-LA1030	Tree Planting (4nos. BJ, 4nos.VO & 1no. of WB) after wooden fence installation	25	26-Sep-25	25-Oct-25	-23	2	0%
P7-LA1040	Shrubs Planting (Tja, Rex, cte, oja etc.) Total 2,229 nos.	25	09-Oct-25	06-Nov-25	-23	2	0%
	Statutory Inspection	142	04-Jul-25	04-Dec-25	-24		0%
	WSD Inspection (Irrigation Water Supply)	69	14-Aug-25	28-Oct-25	-24		0%
P7-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Irrigation Water Supply	1	14-Aug-25	14-Aug-25	-24	2	0%
P7-WSD1010	WSD Inspection - Irrigation Water Supply	7	15-Sep-25	23-Sep-25	-24	2	0%
P7-WSD1020	Issue Water Certificate (Part V) - Irrigation Water Supply	1	27-Oct-25	28-Oct-25	-24	2	0%
	FSD Inspection	76	04-Jul-25	23-Sep-25	-159		0%
P7-FSD2101	Submit FS Form 314 / 501 For FSD Inspection	0	04-Jul-25*	04-Jul-25	-112	2	0%
P7-FSD2102	FSD Inspection	1	08-Sep-25*	09-Sep-25	-159		0%
P7-FSD2110	Issue Fire Certificate (Form 172)	0	22-Sep-25	23-Sep-25*	-159	2	0%
	CEDD / DSD Inspection	35	28-Oct-25	04-Dec-25	-24		0%
P7-CEDD1020	Overall System T&C before CEDD / DSD Inspection	9	28-Oct-25	07-Nov-25	-24	2	0%
P7-CEDD1030	Submit Inspection Form For CEDD /DSD Inspection	1	07-Nov-25	08-Nov-25	-24	2	0%
P7-CEDD1040	CEDD / DSD Inspection	7	15-Nov-25	22-Nov-25	-24	2	0%
P7-CEDD1050	Issue Completion Certificate by CEDD and handover to DSD for operation	1	03-Dec-25	04-Dec-25*	-24	2	0%
	Works in Section 3	133	08-Jan-25 A	27-May-25	260		80.83%
	Portion 8 - Roads & Drains	133	08-Jan-25 A	27-May-25	260		80.83%
	Construction and Diversion of Permanent Cycle Track and Footpath	45	03-Feb-25 A	27-May-25	260		43.21%
	Phase 2 - KT1.41A to KT6.06A	45	03-Feb-25 A	27-May-25	260		43.21%
P8-6220	Permanent Reinstatement works at Temporary Cycle Track and Footpath	45	03-Feb-25 A	27-May-25	260		43.21%
	Reinstatement	20	08-Jan-25 A	27-May-25	260		61.11%
	Remaining Reinstatement Works	20	08-Jan-25 A	27-May-25	260		61.11%
P8-9000	Road formation, reinstatement of disturbed landscape area & Tree Planting (35nos)	20	08-Jan-25 A	27-May-25	260	18	61.11%
	Works in Section 4	439	23-Sep-24 A	20-Dec-25	75		46.47%
	Portion 10 - Visitor Centre	439	23-Sep-24 A	20-Dec-25	75		46.47%
	Defect Liability Period	365	23-Sep-24 A	20-Dec-25	75		35.62%
DLP-001	365 days	365	23-Sep-24 A	20-Dec-25	75		35.62%
	Switching Sewerage System	439	08-Oct-24 A	20-Dec-25	75		46.47%
P10-TS2260	Operation and decommissioning works for temporary sewerage system	356	08-Oct-24 A	20-Dec-25	75	12	33.91%
P10-TS2270	Switch back to permanent system	5	16-Dec-25	20-Dec-25	75	0	0%
	Works in Section 5	306	31-Mar-25 A	05-Mar-26	94		7.99%
	Portion 11 - Village Resite Area [CE-203 | PMI-160,168,236]	306	31-Mar-25 A	05-Mar-26	94		7.99%
	Underground & structural works	182	31-Mar-25 A	17-Oct-25	218		13.45%
	Drainage Works	54	25-Apr-25 A	23-Jun-25	326		8.23%
P11-1100	Pipe laying between SMH_6.01, SMH_6.02, SMH_6.03	7	25-Apr-25 A	08-May-25	368		0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

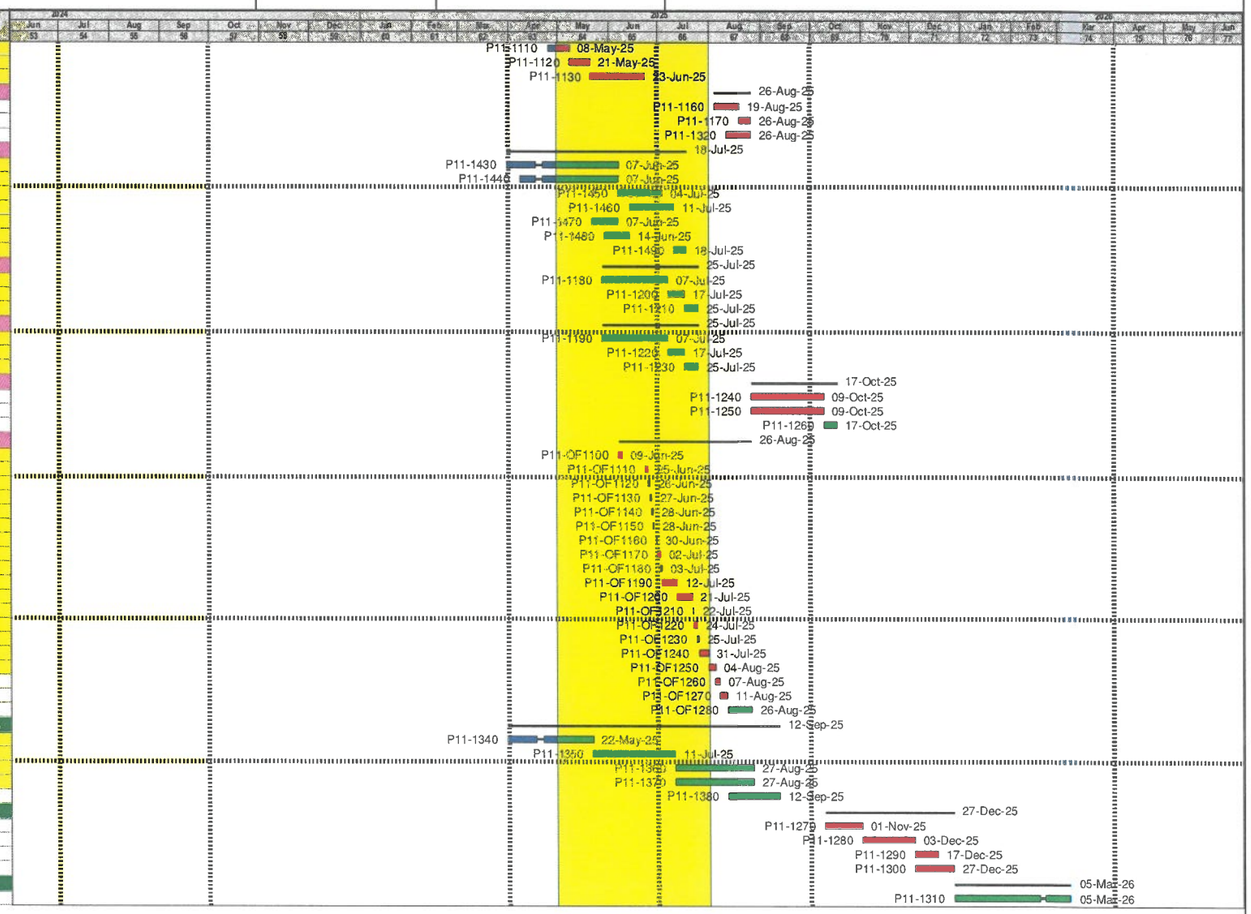
Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX B - THREE MONTH ROLLING PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

Filter: TASK filter: DD+3M Lookahead_1.
Layout: ND/2019/02_MPU_Apr_2025 (3MRP)

#	Activity ID	Activity Name	Duration	Start	Finish	Total Float	TFA	Duration % Complete
381	P11-1110	Construction of SMH_1.07, SMH_1.08, SMH_1.09, SMH_1.10 & SMH_1.11	12	25-Apr-25 A	08-May-25	-42		37.04%
382	P11-1120	Pipe laying between SMH_1.07, SMH_1.08, SMH_1.09, SMH_1.10 & SMH_1.11	12	08-May-25	21-May-25	-42		0%
383	P11-1130	Remove Sheetpiles and Backfilling to at grade level	30	21-May-25	23-Jun-25	-42		0%
384	Sewage Works (PM-168/180 issurance on 9-Jan-2024)		21	04-Aug-25	26-Aug-25	-147		0%
385	P11-1160	Construction of Terminal Manhole FTMH_6.01	14	04-Aug-25	19-Aug-25	-147		0%
386	P11-1170	Pipe laying between FTMH_6.01 and FMH_KT_6.03A	7	19-Aug-25	26-Aug-25	-147		0%
387	P11-1320	Remove Sheetpiles and Backfilling to at grade level	14	11-Aug-25	26-Aug-25	-147		0%
388	Cable drawpits & ducting		82	31-Mar-25 A	18-Jul-25	302		25.09%
389	P11-1430	Construction of drawpit DP-01 to DS-10 (10 nos)	35	31-Mar-25 A	07-Jun-25	302		0%
390	P11-1440	Construction of ducting between DP-01 and DS-10	35	08-Apr-25 A	07-Jun-25	340		0%
391	P11-1450	Construction of drawpit DP-15 to DS-21 (7 nos)	24	07-Jun-25	04-Jul-25	302		0%
392	P11-1460	Construction of ducting between DP-15 and DS-21	24	14-Jun-25	11-Jul-25	302		0%
393	P11-1470	Construction of drawpit DP-11 to DS-14 (4 nos)	14	22-May-25	07-Jun-25	333		0%
394	P11-1480	Construction of ducting between DP-11 and DS-14	14	30-May-25	14-Jun-25	333		0%
395	P11-1490	Bacfilling to at grade level	7	11-Jul-25	18-Jul-25	302		0%
396	Fresh Watermains		53	28-May-25	25-Jul-25	296		0%
397	P11-1180	Construction of fresh watermains	35	28-May-25	07-Jul-25	296		0%
398	P11-1200	Water pressure test for fresh watermains	10	07-Jul-25	17-Jul-25	296		0%
399	P11-1210	Backfilling to at grade level	8	17-Jul-25	25-Jul-25	296		0%
400	Flush Water Mains		53	28-May-25	25-Jul-25	296		0%
401	P11-1190	Construction of flush watermains	35	28-May-25	07-Jul-25	296		0%
402	P11-1220	Water pressure test for flush watermains	10	07-Jul-25	17-Jul-25	296		0%
403	P11-1230	Backfilling to at grade level	8	17-Jul-25	25-Jul-25	296		0%
404	Surface channels & catchpits		48	26-Aug-25	17-Oct-25	218		0%
405	P11-1240	Construction of catchpits & gully	40	26-Aug-25	09-Oct-25	-147		0%
406	P11-1250	Construction of surface channels	40	26-Aug-25	09-Oct-25	-147		0%
407	P11-1260	Backfilling to at grade level	8	09-Oct-25	17-Oct-25	218		0%
408	Outfall SMH_KT6.04A		72	07-Jun-25	26-Aug-25	266		0%
409	P11-OF1100	Removal of Grasscrete and concrete materials	2	07-Jun-25*	09-Jun-25	-29	0	0%
410	P11-OF1110	Excavation to formation level	2	23-Jun-25	25-Jun-25	-42	0	0%
411	P11-OF1120	Laying of silt curtain and delivery of concrete block	1	25-Jun-25	26-Jun-25	-42	0	0%
412	P11-OF1130	Pour Concrete Blinding	1	26-Jun-25	27-Jun-25	-42	0	0%
413	P11-OF1140	Erect formwork for Vertical blinding for base slab shear key	1	27-Jun-25	28-Jun-25	-42	0	0%
414	P11-OF1150	Pour Concrete shear key blinding	1	28-Jun-25	28-Jun-25	-42	0	0%
415	P11-OF1160	Strip off formwork for shear key	1	30-Jun-25	30-Jun-25	-42	0	0%
416	P11-OF1170	Erect formwork for Shear key	1	30-Jun-25	02-Jul-25	-42	0	0%
417	P11-OF1180	Erect formwork for oufall base slab	1	02-Jul-25	03-Jul-25	-42	0	0%
418	P11-OF1190	Erect formwork for outfall Wall (1st side)	9	03-Jul-25	12-Jul-25	-42	0	0%
419	P11-OF1200	Rebar fixing for outfall base slab	8	12-Jul-25	21-Jul-25	-42	0	0%
420	P11-OF1210	Outfall Baseslab concreting	1	22-Jul-25	22-Jul-25	-42	0	0%
421	P11-OF1220	Dismantle Base slab Formwork	2	22-Jul-25	24-Jul-25	-42	0	0%
422	P11-OF1230	Rebar fixing for outfall Wall	1	24-Jul-25	25-Jul-25	-42	0	0%
423	P11-OF1240	Erect formwork for outfall Wall (2nd side)	5	25-Jul-25	31-Jul-25	-42	0	0%
424	P11-OF1250	Outfall Wall concreting	4	31-Jul-25	04-Aug-25	-42	0	0%
425	P11-OF1260	Dismantle Wall Formwork	3	04-Aug-25	07-Aug-25	-42	0	0%
426	P11-OF1270	Pipe connection to SMH_KT_6.04A	4	07-Aug-25	11-Aug-25	-42	0	0%
427	P11-OF1280	Reintatement by Rockfill and grasscrete	14	12-Aug-25	26-Aug-25	266		0%
428	Revised Electrical Substation		150	31-Mar-25 A	12-Sep-25	249		16.25%
429	P11-1340	Electrical substation - Substructure	21	31-Mar-25 A	22-May-25	249		0%
430	P11-1350	Electrical substation - Superstructure	45	22-May-25	11-Jul-25	249		0%
431	P11-1360	Electrical substation - ABWF	45	11-Jul-25	27-Aug-25	264		0%
432	P11-1370	Electrical substation - E&M Works	45	11-Jul-25	27-Aug-25	249		0%
433	P11-1380	Electrical substation - T&C	30	12-Aug-25	12-Sep-25	249		0%
434	Hard Paving Works & Remaining Works		72	09-Oct-25	27-Dec-25	-147		0%
435	P11-1270	Footing for road furniture & backfilling	21	09-Oct-25	01-Nov-25	-147		0%
436	P11-1280	Concrete paving & road marking	30	01-Nov-25	03-Dec-25	-147		0%
437	P11-1290	Installation of road lights, road furniture, signages	14	03-Dec-25	17-Dec-25	-147		0%
438	P11-1300	Landscaping & Remaining Works	21	03-Dec-25	27-Dec-25	-147	3	0%
439	Defect Rectification Period		60	27-Dec-25	05-Mar-26	94		0%
440	P11-1310	Rectification to defects works	60	27-Dec-25	05-Mar-26	94	2	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

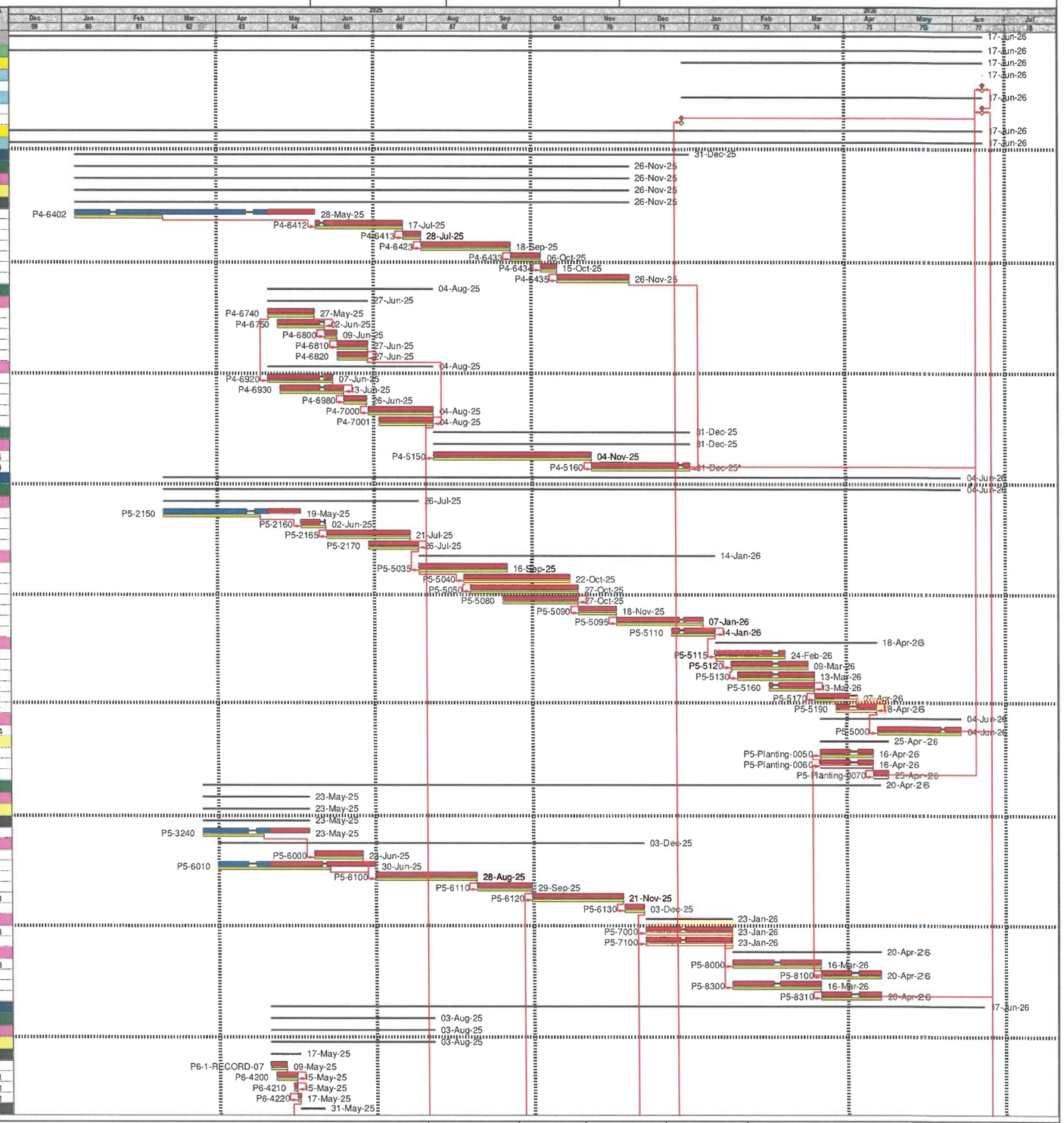
APPENDIX B - THREE MONTH ROLLING PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH/WW

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

#	Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRA
1		Monthly Programme Update (Apr 2025)	649	30-Nov-24 A	17-Jun-26	-90	
2		Programme Data	649	30-Nov-24 A	17-Jun-26	-90	
3		Planned Completion	154	27-Dec-25	17-Jun-26	-90	
4		The Whole of the Works	0	17-Jun-26	17-Jun-26	-100	
5	PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0		17-Jun-26*	-100	0
6		Sectional Completion	154	27-Dec-25	17-Jun-26	-90	
7	PD1050	Section 2 - Works in P2,3,4,5,6 & 7	0		17-Jun-26*	-100	0
8	PD1090	Section 5 - Works in P11	0		27-Dec-25*	-160	0
9		Works	649	30-Nov-24 A	17-Jun-26	-90	
10		Works in Section 2	649	30-Nov-24 A	17-Jun-26	-90	
11		Portion 4 - Road & Drains	324	08-Jan-25 A	31-Dec-25	-47	
12		Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)	293	08-Jan-25 A	26-Nov-25	-17	
13		Gang 4	293	08-Jan-25 A	26-Nov-25	-17	
14		Rising Main CHB867 to CHB974 (107M) Gang 4-5	293	08-Jan-25 A	26-Nov-25	-17	
15		CHB900-CHB974 (74M)	293	08-Jan-25 A	26-Nov-25	-17	
16	P4-6402	Soft Excavation to 1st strut level	46	08-Jan-25 A	28-May-25	-17	
17	P4-6412	Installation of strut S1	46	28-May-25	17-Jul-25	-17	
18	P4-6413	Wailing welding and testing	10	17-Jul-25	28-Jul-25	-17	
19	P4-6423	Soft Excavation to F.L.	50	28-Jul-25	18-Sep-25	-17	
20	P4-6433	Concrete Blinding	15	18-Sep-25	06-Oct-25	-17	
21	P4-6434	Bedding and Pipe Laying (Twins DN700)	8	06-Oct-25	15-Oct-25	-17	
22	P4-6435	Backfilling of drain to at grade level from CHB900 to CHB974	39	15-Oct-25*	26-Nov-25	-17	
23		NS 250 PE Pipe Installation (From KT6.07A to KT6.01) [190.226m]	88	30-Apr-25 A	04-Aug-25	-47	
24		Sewer Pipeline FMH_KT6.08A to FMH_KT6.04A[62.86m] (53.153m+9.707m)	54	30-Apr-25 A	27-Jun-25	-13	
25	P4-6740	Sheet Pile Installation for open trench (2.5m embedment depth, 3.5m retaining height)	25	30-Apr-25 A	27-May-25	-147	
26	P4-6750	Soft Excavation to F.L +3.2mPD	25	06-May-25	02-Jun-25	-13	
27	P4-6800	Bedding and Pipe Laying (NS 250 HDPE Pipe)	7	02-Jun-25	09-Jun-25	-13	
28	P4-6810	RC Works of KT6.05A and KT6.04A	17	09-Jun-25	27-Jun-25	-13	
29	P4-6820	Backfilling of drain to at grade level and extraction of sheet pile	18	09-Jun-25	27-Jun-25	-13	
30		Sewer Pipeline FMH_KT6.04A to FMH_KT6.01A[127.366m] (16.208m+59.625m+51.533m)	88	30-Apr-25 A	04-Aug-25	-47	
31	P4-6920	Sheet Pile Installation to proposed toe level +0.7mPD (2.5m embedment depth, 3.5m retaining h	35	30-Apr-25 A	07-Jun-25	-147	
32	P4-6930	Lower down existing ground +6.7mPD to form final excavation level +3.2mPD with 35 degree cu	35	07-May-25	13-Jun-25	-147	
33	P4-6980	Bedding and Pipe Laying (NS 250 HDPE Pipe)	12	13-Jun-25	26-Jun-25	-147	
34	P4-7000	RC Works of KT6.03A, KT6.02A and KT6.01A	35	27-Jun-25	04-Aug-25	-147	
35	P4-7001	Backfilling of drain to at grade level and extraction of sheet pile	30	03-Jul-25	04-Aug-25	-47	
36		Reinstatement	136	04-Aug-25	31-Dec-25	-47	
37		Remaining Reinstatement Works	136	04-Aug-25	31-Dec-25	-47	
38	P4-5150	Utilities Works (Telecom & electricity)	84	04-Aug-25	04-Nov-25	-47	14
39	P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	52	04-Nov-25	31-Dec-25*	-47	30
40		Portion 5 - Sewage Rising Main	416	28-Feb-25 A	04-Jun-26	-78	
41		Sewage Rising Main Installation by Open Cut (CHB1056 to CHB1557)	416	28-Feb-25 A	04-Jun-26	-78	
42		CHB1102 - CHB1151 (49m)	133	28-Feb-25 A	26-Jul-25	-78	
43	P5-2150	Soft Excavation to F.L.	50	28-Feb-25 A	19-May-25	-78	2
44	P5-2160	Bedding and Pipe Laying (Twins DN700)	13	19-May-25	02-Jun-25	-78	2
45	P5-2165	RC Works Inspection Chamber and Air Valve Chamber at CHB1127	45	03-Jun-25	21-Jul-25	-78	
46	P5-2170	Backfilling to at grade level	27	27-Jun-25	26-Jul-25	-78	2
47		CHB1359 - CHB 1478 (119m)	197	26-Jul-25	14-Jan-26	-78	
48	P5-5035	Sheet Pile Installation for open trench	49	26-Jul-25	16-Sep-25	-78	2
49	P5-5040	Soft Excavation to 1st strut level	57	21-Aug-25	22-Oct-25	-78	2
50	P5-5050	Installation of strut S1	58	25-Aug-25	27-Oct-25	-78	2
51	P5-5080	Soft Excavation to F.L.	39	13-Sep-25	27-Oct-25	-78	2
52	P5-5090	Bedding and Pipe Laying (Twins DN700)	20	27-Oct-25	18-Nov-25	-78	2
53	P5-5095	RC Works Inspection Chamber and Air Valve Chamber at CHB1457	45	18-Nov-25	07-Jan-26	-78	
54	P5-5110	Backfilling to at grade level	20	20-Dec-25	14-Jan-26	-78	2
55		CHB1478 - CHB 1557 (79m)	84	14-Jan-26	18-Apr-26	-78	
56	P5-5115	Sheet Pile Installation for open trench	36	14-Jan-26	24-Feb-26	-78	2
57	P5-5120	Soft Excavation to 1st strut level	39	23-Jan-26	09-Mar-26	-78	2
58	P5-5130	Installation of strut S1	40	27-Jan-26	13-Mar-26	-78	2
59	P5-5160	Soft Excavation to F.L.	21	14-Feb-26	13-Mar-26	-78	2
60	P5-5170	Bedding and Pipe Laying (Twins DN700)	20	13-Mar-26	07-Apr-26	-78	2
61	P5-5190	Backfilling to at grade level	20	25-Mar-26	18-Apr-26	-78	2
62		Reinstatement	72	16-Mar-26	04-Jun-26	-78	
63	P5-5000	Underground Utilities & Road reinstatement and Reinstatement of disturbed landscape area	42	18-Apr-26	04-Jun-26	-78	14
64		Additional Landscaping Works	36	16-Mar-26	25-Apr-26	-42	
65	P5-Planting-0050	Shrubs Planting 591m along Shek Sheung River (6nos. Ficus microcarpa (golden) x 3m interval	27	16-Mar-26	16-Apr-26	-42	
66	P5-Planting-0060	Shrubs Planting 591m along Shek Sheung River (6 nos. Lxora chinensis x 3m intervals) (500mm)	27	16-Mar-26	16-Apr-26	-42	
67	P5-Planting-0070	Planter watering	9	16-Apr-26	25-Apr-26	-42	
68		CHB1680 to CHB1560 [120M] Sewage Rising Main Installation across Shek Sheung River by Pipejacking	353	22-Mar-25 A	20-Apr-26	-36	
69		ELS	30	22-Mar-25 A	23-May-25	-77	
70		JACKING PIT CHB1680	30	22-Mar-25 A	23-May-25	-77	
71		Trial grout at CHB1680 for horizontal grout	30	22-Mar-25 A	23-May-25	-77	
72	P5-3240	Trial grout at CHB1680 for horizontal grout & microtremer	30	22-Mar-25 A	23-May-25	-77	
73		PIPE JACKING (CHB1680 to CHB1560)	225	31-Mar-25 A	03-Dec-25	-42	
74	P5-6000	TBM transport & setup at Jacking Pit CHB1680 (driven by P5-3070)	28	26-May-25*	23-Jun-25	-89	
75	P5-6010	Additional G.I Works for DN3000 Pipe Jacking Across Shek Sheung River (PMI-284)	56	31-Mar-25 A	30-Jun-25	-85	
76	P5-6100	Pipe Jacking from CHB1680 to CHB1560 (120m)	56	30-Jun-25	28-Aug-25	-85	
77	P5-6110	Removal of TBM & gears and grouting works	30	28-Aug-25	29-Sep-25	-85	
78	P5-6120	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	48	29-Sep-25	21-Nov-25	-42	3
79	P5-6130	Water pressure test and grouting of pipeline (driver P6-5150)	11	22-Nov-25*	03-Dec-25	-42	
80		MANHOLE	45	04-Dec-25	23-Jan-26	-36	
81	P5-7000	Construction of Manhole at CHB1545 (D.A.V chamber CHB1541)	45	04-Dec-25	23-Jan-26	-42	3
82	P5-7100	Construction of Manhole at CHB1680 (Driver P6-5110 predecessor FS)	45	04-Dec-25*	23-Jan-26	-36	
83		REINSTATEMENT	75	23-Jan-26	20-Apr-26	-36	
84	P5-8000	CHB1560 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-42	3
85	P5-8100	Reinstatement works at CHB1560	30	16-Mar-26	20-Apr-26	-42	
86	P5-8300	CHB1680 Pit Backfilling and ELS removal	45	23-Jan-26	16-Mar-26	-36	
87	P5-8310	Reinstatement works at CHB1680	30	16-Mar-26	20-Apr-26	-36	
88		Portion 6 - CHB1680 to CHB1740 [60M] Sewage Pipe Jacking across Shek Sheung River and MTRC near SWH	375	30-Apr-25 A	17-Jun-26	-90	
89		ELS (CHB1740)	88	30-Apr-25 A	03-Aug-25	-92	
90		Construction of Receiving Pit at CHB1740 (SWH) and Pumping Test	88	30-Apr-25 A	03-Aug-25	-92	
91		Excavation	88	30-Apr-25 A	03-Aug-25	-92	
92		Stage 5 (+2.00 mPD) | 3rdLayer	16	30-Apr-25 A	17-May-25	-90	
93	P6-1-RECORD-07	Breaking unforeseen abandoned concrete pipe (NCE-146)	9	30-Apr-25 A	09-May-25	-90	
94	P6-4200	Install 3rd layer of wailing & strut	12	03-May-25	15-May-25	-100	1
95	P6-4210	Dewater to 1000mm below 4th layer of wailing & strut	2	13-May-25	15-May-25	-100	1
96	P6-4220	Excavate to 500mm below 4th layer of wailing & strut	2	15-May-25	17-May-25	-100	1
97		Stage 6 (-0.50 mPD) | 4th Layer	14	17-May-25	31-May-25	-100	



Primary Baseline
Completed Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX C - CRITICAL WORKS PROGRAMME

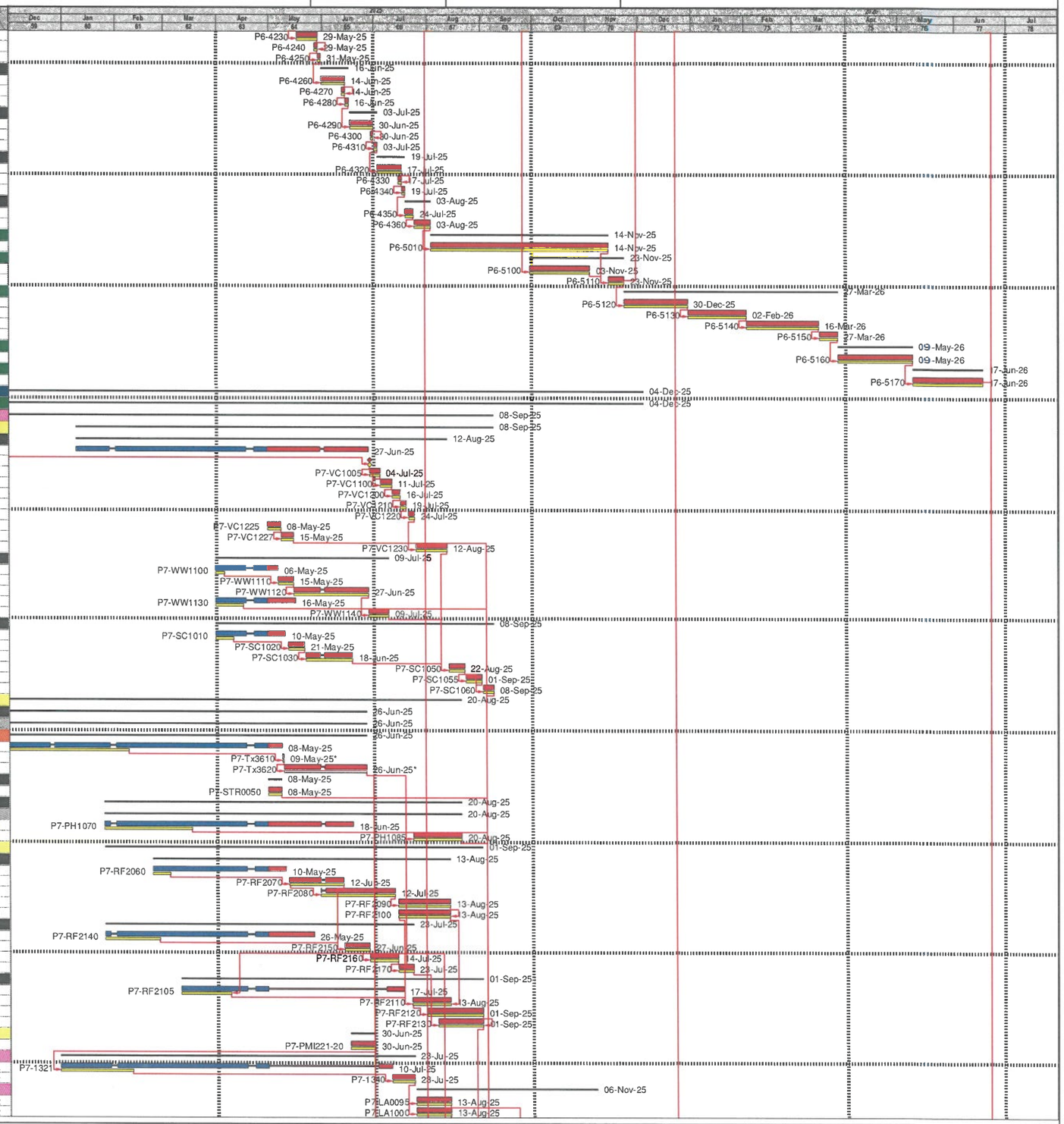
Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH

Filter: TASK filter: Critical.
Layout: ND/2019/02_MPU_Apr_2025 (CRITICAL)

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

Activity ID	Activity Name	Duration	Start	Finish	Total Float	TRC
P6-4230	Install 4th layer of wailing & strut	12	17-May-25	29-May-25	-100	1
P6-4240	Dewater to 1000mm below 5th layer of wailing & strut	2	27-May-25	29-May-25	-100	1
P6-4250	Excavate to 500mm below 5th layer of wailing & strut	2	29-May-25	31-May-25	-100	1
Stage 7 (-2.50 mPD) | 5th Layer		16	31-May-25	16-Jun-25	-100	
P6-4260	Install 5th layer of wailing & strut	14	31-May-25	14-Jun-25	-100	1
P6-4270	Dewater to 1000mm below 6th layer of wailing & strut	2	12-Jun-25	14-Jun-25	-100	1
P6-4280	Excavate to 500mm below 6th layer of wailing & strut	2	14-Jun-25	16-Jun-25	-100	1
Stage 8 (-4.50 mPD) | 6th Layer		16	17-Jun-25	03-Jul-25	-100	
P6-4290	Install 6th layer of wailing & strut	14	17-Jun-25	30-Jun-25	-100	1
P6-4300	Dewater to 1000mm below 7th layer of wailing & strut	2	29-Jun-25	30-Jun-25	-100	1
P6-4310	Excavate to 500mm below 7th layer of wailing & strut	2	01-Jul-25	03-Jul-25	-100	1
Stage 9 (-6.00 mPD) | 7th Layer		16	03-Jul-25	19-Jul-25	-100	
P6-4320	Install 7th layer of wailing & strut	14	03-Jul-25	17-Jul-25	-100	1
P6-4330	Dewater to 1000mm below the Final Level Excavation Level	2	15-Jul-25	17-Jul-25	-100	1
P6-4340	Excavate 500mm below the Final Level Excavation Level	2	17-Jul-25	19-Jul-25	-100	1
Stage 10 (-7.921 mPD) | Blinding Layer		15	19-Jul-25	03-Aug-25	-100	
P6-4350	Construct 200mm Blinding Layer at T.L=-7.921mPD.	5	19-Jul-25	24-Jul-25	-100	1
P6-4360	Remove 7th and 6th layer of wailing & strut	10	24-Jul-25	03-Aug-25	-100	1
GROUND TREATMENT		103	03-Aug-25	14-Nov-25	-100	
P6-5010	Horizontal ground treatment & testing at CHB1740 (49 NTH 3-hr shift, 4nights/wk)	103	03-Aug-25	14-Nov-25	-100	
PIPE JACKING (CHB1680 to CHB1703)		54	29-Sep-25	23-Nov-25	-100	
P6-5100	Tunnel Boring Machine (TBM) setup and assembly at Jacking Pit CHB1680	35	29-Sep-25*	03-Nov-25	-89	
P6-5110	Pipe Jacking from CHB1680 to CHB1703 (23m, Daywork)	9	14-Nov-25	23-Nov-25	-100	
PIPE JACKING (CHB1703 to CHB1740)		124	23-Nov-25	27-Mar-26	-100	
P6-5120	Pipe Jacking from CHB1703 to CHB1740 (37m, 23 NTH, 4nights/wk)	37	23-Nov-25	30-Dec-25	-100	
P6-5130	Removal of TBM and gears and grouting works	34	30-Dec-25	02-Feb-26	-100	
P6-5140	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	42	02-Feb-26	16-Mar-26	-100	3
P6-5150	Water pressure test and grouting of pipeline (driving P5-6130)	11	16-Mar-26	27-Mar-26	-100	
MANHOLE		43	27-Mar-26	09-May-26	-100	
P6-5160	Construction of Manhole SSM1 at CHB1752	43	27-Mar-26	09-May-26	-100	
REINSTATEMENT		39	09-May-26	17-Jun-26	-100	
P6-5170	CHB1740 Pit Backfilling and reinstatement	39	09-May-26	17-Jun-26	-100	3
Portion 7 - Kwu Tung North Sewage Pumping station		475	30-Nov-24 A	04-Dec-25	-24	
Sewage Pumping Station		475	30-Nov-24 A	04-Dec-25	-24	
ABWF/ E&M Works		395	30-Nov-24 A	08-Sep-25	-29	
Basement Floor		395	09-Jan-25 A	08-Sep-25	-159	
Valve Chamber		370	09-Jan-25 A	12-Aug-25	-134	
P7-VC0900	Dismantling Falsework from R/F to B/F	60	09-Jan-25 A	27-Jun-25	-159	
P7-VC1000	Access Date of Valve Chamber Builders works	0	28-Jun-25		-159	
P7-VC1005	Concrete Defect Repairing	5	28-Jun-25	04-Jul-25	-159	0
P7-VC1100	Concrete Plinth for resting the twins rising mains	7	04-Jul-25	11-Jul-25	-159	0
P7-VC1200	Waterproofing works of Valve Chamber	4	11-Jul-25	16-Jul-25	-159	0
P7-VC1210	Flooding Test and Infra Red test after waterproofing	4	16-Jul-25	19-Jul-25	-159	0
P7-VC1220	Floor Screed	4	21-Jul-25	24-Jul-25	-159	0
P7-VC1225	Erect working platform from +1.55mPD to +7.65mPD for Steel Staircase Installation	7	30-Apr-25 A	08-May-25	-52	0
P7-VC1227	Steel Staircase Installation (+1.55mPD to +4.35mPD)	7	08-May-25*	15-May-25	-52	0
P7-VC1230	Twins rising mains Installation with connection to wet well and outside external area	18	25-Jul-25	12-Aug-25	-159	0
Wet Well		88	31-Mar-25 A	09-Jul-25	-102	
P7-WW1100	Scaffolding and working platform modification	5	31-Mar-25 A	06-May-25	-127	0
P7-WW1110	Wall and Ceiling Waterproofing, testing and screeding	9	06-May-25	15-May-25	-127	0
P7-WW1120	Submersible Sewerage Pump Installation and Pipe Connection to Valve Chamber	40	15-May-25	27-Jun-25	-127	0
P7-WW1130	Cat Ladder Installation	15	31-Mar-25 A	16-May-25	-53	0
P7-WW1140	Filling of Void of wet well	10	27-Jun-25	09-Jul-25	-127	0
Screen Chamber & Retention Tank		146	31-Mar-25 A	08-Sep-25	-159	
P7-SC1010	Scaffolding and working platform erection	10	31-Mar-25 A	10-May-25	-108	0
P7-SC1020	Wall and Ceiling Waterproofing & Testing	10	12-May-25	21-May-25	-108	0
P7-SC1030	Pipe work Installation and Bar Screen Installation	25	22-May-25	18-Jun-25	-108	0
P7-SC1050	T&C for Basement Floor Equipment	10	13-Aug-25	22-Aug-25	-159	0
P7-SC1055	Application of protective lining to all wet surfaces	9	23-Aug-25	01-Sep-25	-159	
P7-SC1060	Water tightness testing for retention tank	6	02-Sep-25	08-Sep-25	-159	
Ground Floor		236	30-Nov-24 A	20-Aug-25	-142	
Tx Room / Switch Room		184	30-Nov-24 A	26-Jun-25	-118	
BS Works		184	30-Nov-24 A	26-Jun-25	-118	
CLP works & Statutory Inspection		184	30-Nov-24 A	26-Jun-25	-118	
P7-Tx3600	CLP Installation Works	60	30-Nov-24 A	08-May-25	-118	2
P7-Tx3610	Energization of Tx Equipment	1	08-May-25	09-May-25*	-118	2
P7-Tx3620	CLP Electric Meter Installation	44	09-May-25	26-Jun-25*	-118	2
Staff Toilet Room		7	30-Apr-25	08-May-25	-45	
P7-STR0050	BS installation works	7	30-Apr-25	08-May-25	-45	
Pump Hall		187	25-Jan-25 A	20-Aug-25	-142	
BS Works		187	25-Jan-25 A	20-Aug-25	-142	
P7-PH1070	T&C of Pump Hall Equipments & connection of AFA system to Megalink	45	25-Jan-25 A	18-Jun-25	-110	0
P7-PH1085	Overall System T&C before FSD Inspection	28	23-Jul-25	20-Aug-25	-142	2
Roof Floor		197	25-Jan-25 A	01-Sep-25	-23	
ABWF		157	22-Feb-25 A	13-Aug-25	-23	
P7-RF2060	Laying Insulation board with protection floor screed	10	22-Feb-25 A	10-May-25	-142	0
P7-RF2070	Laying Floor finishes	30	12-May-25	12-Jun-25	-142	0
P7-RF2080	Roof water tank Installation & testing	40	30-May-25	12-Jul-25	-23	0
P7-RF2090	Roof Skylight Installation	30	14-Jul-25	13-Aug-25	-23	0
P7-RF2100	Roof Balustrade & Fall Arrest system Installation	30	14-Jul-25	13-Aug-25	-23	0
BS Works		158	25-Jan-25 A	23-Jul-25	-142	
P7-RF2140	BS 1st Fixing (Elec, Water, Irrigation piping)	27	25-Jan-25 A	26-May-25	-126	0
P7-RF2150	BS 2nd Fixing (Elec, Water, Irrigation System connection)	14	13-Jun-25	27-Jun-25	-142	0
P7-RF2160	BS final Fixing	14	27-Jun-25	14-Jul-25	-142	0
P7-RF2170	T&C of Roof BS System	9	14-Jul-25	23-Jul-25	-142	0
Landscape Works		159	10-Mar-25 A	01-Sep-25	-23	
P7-RF2105	Roof Planters Drainages, irrigation pipe, Artifcal Granite Tile Installation	27	10-Mar-25 A	17-Jul-25	-19	0
P7-RF2110	Soil Backfilling to Roof Planters	22	22-Jul-25	13-Aug-25	-23	0
P7-RF2120	Shurbs Planting works to roof floor (5,802 nos)	31	31-Jul-25	01-Sep-25	-23	0
P7-RF2130	Water Points installation for irrigation	25	06-Aug-25	01-Sep-25	-23	0
PMI-200 Revised Layout of Boundary Fence Wall to Suit DSD Maintenance Requirement		14	16-Jun-25	30-Jun-25	-24	
P7-PMI221-20	Construction of boundary fence wall of KTN SPS with revised layout and footing details	14	16-Jun-25*	30-Jun-25	-24	4
External Finishes		184	30-Dec-24 A	23-Jul-25	-24	
P7-1321	Fence Wall Gate Installation	36	30-Dec-24 A	10-Jul-25	-24	3
P7-1340	Removal of external scaffolding	12	10-Jul-25	23-Jul-25	-24	2
Landscape Works		97	24-Jul-25	06-Nov-25	-23	
P7-LA0095	Placing irrigation pipe and Planting Soil near main entrance of SPS	20	24-Jul-25	13-Aug-25	-24	2
P7-LA1000	Placing irrigation pipe and Planting Soil Near Retaining Wall RW-08	20	24-Jul-25	13-Aug-25	-24	2



Primary Baseline
Completed Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

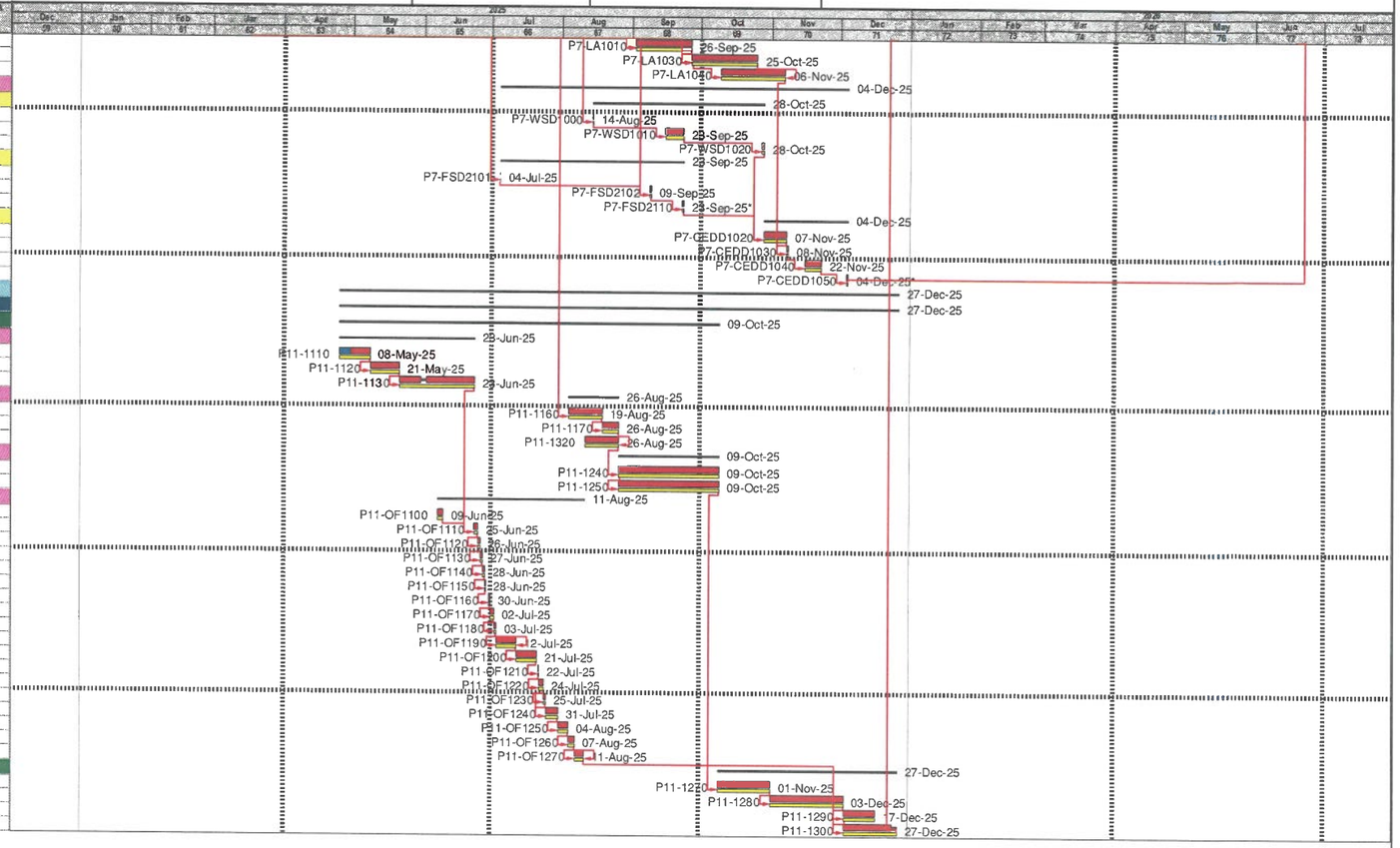
APPENDIX C - CRITICAL WORKS PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH

ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

Monthly Programme Update (Apr 2025) as at 30-Apr-2025

#	Activity ID	Activity Name	Duration	Start	Finish	Total Float	FRA
196	P7-LA1010	Tree Planting (7nos. Tm & 7nos Tp) Near Retaining Wall RW-08	24	02-Sep-25	26-Sep-25	-23	2
197	P7-LA1030	Tree Planting (4nos. BJ, 4nos VO & 1no. of WB) after wooden fence installation	25	26-Sep-25	25-Oct-25	-23	2
198	P7-LA1040	Shrubs Planting (Tja, Rex, cte, pja etc.) Total 2,229 nos.	25	09-Oct-25	06-Nov-25	-23	2
199	Statutory Inspection		142	04-Jul-25	04-Dec-25	-24	
200	WSD Inspection (Irrigation Water Supply)		69	14-Aug-25	28-Oct-25	-24	
201	P7-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Irrigation Water Supply	1	14-Aug-25	14-Aug-25	-24	2
202	P7-WSD1010	WSD Inspection - Irrigation Water Supply	7	15-Sep-25	23-Sep-25	-24	2
203	P7-WSD1020	Issue Water Certificate (Part V) - Irrigation Water Supply	1	27-Oct-25	28-Oct-25	-24	2
204	FSD Inspection		76	04-Jul-25	23-Sep-25	-159	
205	P7-FSD2101	Submit FS Form 314 / 501 For FSD Inspection	0	04-Jul-25*	04-Jul-25	-112	2
206	P7-FSD2102	FSD Inspection	1	08-Sep-25*	09-Sep-25	-159	
207	P7-FSD2110	Issue Fire Certificate (Form 172)	0	22-Sep-25	23-Sep-25*	-159	2
208	CEDD / DSD Inspection		35	28-Oct-25	04-Dec-25	-24	
209	P7-CEDD1020	Overall System T&C before CEDD / DSD Inspection	9	28-Oct-25	07-Nov-25	-24	2
210	P7-CEDD1030	Submit Inspection Form For CEDD /DSD Inspection	1	07-Nov-25	08-Nov-25	-24	2
211	P7-CEDD1040	CEDD / DSD Inspection	7	15-Nov-25	22-Nov-25	-24	2
212	P7-CEDD1050	Issue Completion Certificate by CEDD and handover to DSD for operation	1	03-Dec-25	04-Dec-25*	-24	2
213	Works in Section 5		226	25-Apr-25 A	27-Dec-25	-147	
214	Portion 11 - Village Resite Area [CE-203 | PMI-160:168:236]		226	25-Apr-25 A	27-Dec-25	-147	
215	Underground & structural works		154	25-Apr-25 A	09-Oct-25	-96	
216	Drainage Works		54	25-Apr-25 A	23-Jun-25	-42	
217	P11-1110	Construction of SMH 1.07, SMH 1.08, SMH 1.09, SMH 1.10 & SMH 1.11	12	25-Apr-25 A	08-May-25	-42	
218	P11-1120	Pipe laying between SMH 1.07, SMH 1.08, SMH 1.09, SMH 1.10 & SMH 1.11	12	08-May-25	21-May-25	-42	
219	P11-1130	Remove Sheetpiles and Backfilling to at grade level	30	21-May-25	23-Jun-25	-42	
220	Sewage Works (PMI-168/180 issurance on 9-Jan-2024)		21	04-Aug-25	26-Aug-25	-147	
221	P11-1160	Construction of Terminal Manhole FTMH_6.01	14	04-Aug-25	19-Aug-25	-147	
222	P11-1170	Pipe laying between FTMH_6.01 and FMH_KT_6.03A	7	19-Aug-25	26-Aug-25	-147	
223	P11-1320	Remove Sheetpiles and Backfilling to at grade level	14	11-Aug-25	26-Aug-25	-147	
224	Surface channels & catchpits		40	26-Aug-25	09-Oct-25	-147	
225	P11-1240	Construction of catchpits & gully	40	26-Aug-25	09-Oct-25	-147	
226	P11-1250	Construction of surface channels	40	26-Aug-25	09-Oct-25	-147	
227	Outfall SMH_KT6.04A		5	07-Jun-25	11-Aug-25	-42	
228	P11-OF1100	Removal of Grasscrete and concrete materials	2	07-Jun-25*	09-Jun-25	-29	0
229	P11-OF1110	Excavation to formation level	2	23-Jun-25	25-Jun-25	-42	0
230	P11-OF1120	Laying of silt curtain and delivery of concrete block	1	25-Jun-25	26-Jun-25	-42	0
231	P11-OF1130	Pour Concrete Blinding	1	26-Jun-25	27-Jun-25	-42	0
232	P11-OF1140	Erect formwork for Vertical blinding for base slab shear key	1	27-Jun-25	28-Jun-25	-42	0
233	P11-OF1150	Pour Concrete shear key blinding	1	28-Jun-25	28-Jun-25	-42	0
234	P11-OF1160	Strip off formwork for shear key	1	30-Jun-25	30-Jun-25	-42	0
235	P11-OF1170	Erect formwork for Shear key	1	30-Jun-25	02-Jul-25	-42	0
236	P11-OF1180	Erect formwork for outfall base slab	1	02-Jul-25	03-Jul-25	-42	0
237	P11-OF1190	Erect formwork for outfall Wall (1st side)	9	03-Jul-25	12-Jul-25	-42	0
238	P11-OF1200	Rebar fixing for outfall base slab	8	12-Jul-25	21-Jul-25	-42	0
239	P11-OF1210	Outfall Baseslab concreting	1	22-Jul-25	22-Jul-25	-42	0
240	P11-OF1220	Dismantle Base slab Formwork	2	22-Jul-25	24-Jul-25	-42	0
241	P11-OF1230	Rebar fixing for outfall Wall	1	24-Jul-25	25-Jul-25	-42	0
242	P11-OF1240	Erect formwork for outfall Wall (2nd side)	5	25-Jul-25	31-Jul-25	-42	0
243	P11-OF1250	Outfall Wall concreting	4	31-Jul-25	04-Aug-25	-42	0
244	P11-OF1260	Dismantle Wall Formwork	3	04-Aug-25	07-Aug-25	-42	0
245	P11-OF1270	Pipe connection to SMH_KT_6.04A	4	07-Aug-25	11-Aug-25	-42	0
246	Hard Paving Works & Remaining Works		72	09-Oct-25	27-Dec-25	-147	
247	P11-1270	Footing for road furniture & backfilling	21	09-Oct-25	01-Nov-25	-147	
248	P11-1280	Concrete paving & road marking	30	01-Nov-25	03-Dec-25	-147	
249	P11-1290	Installation of road lights, road furniture, signages	14	03-Dec-25	17-Dec-25	-147	
250	P11-1300	Landscaping & Remaining Works	21	03-Dec-25	27-Dec-25	-147	3



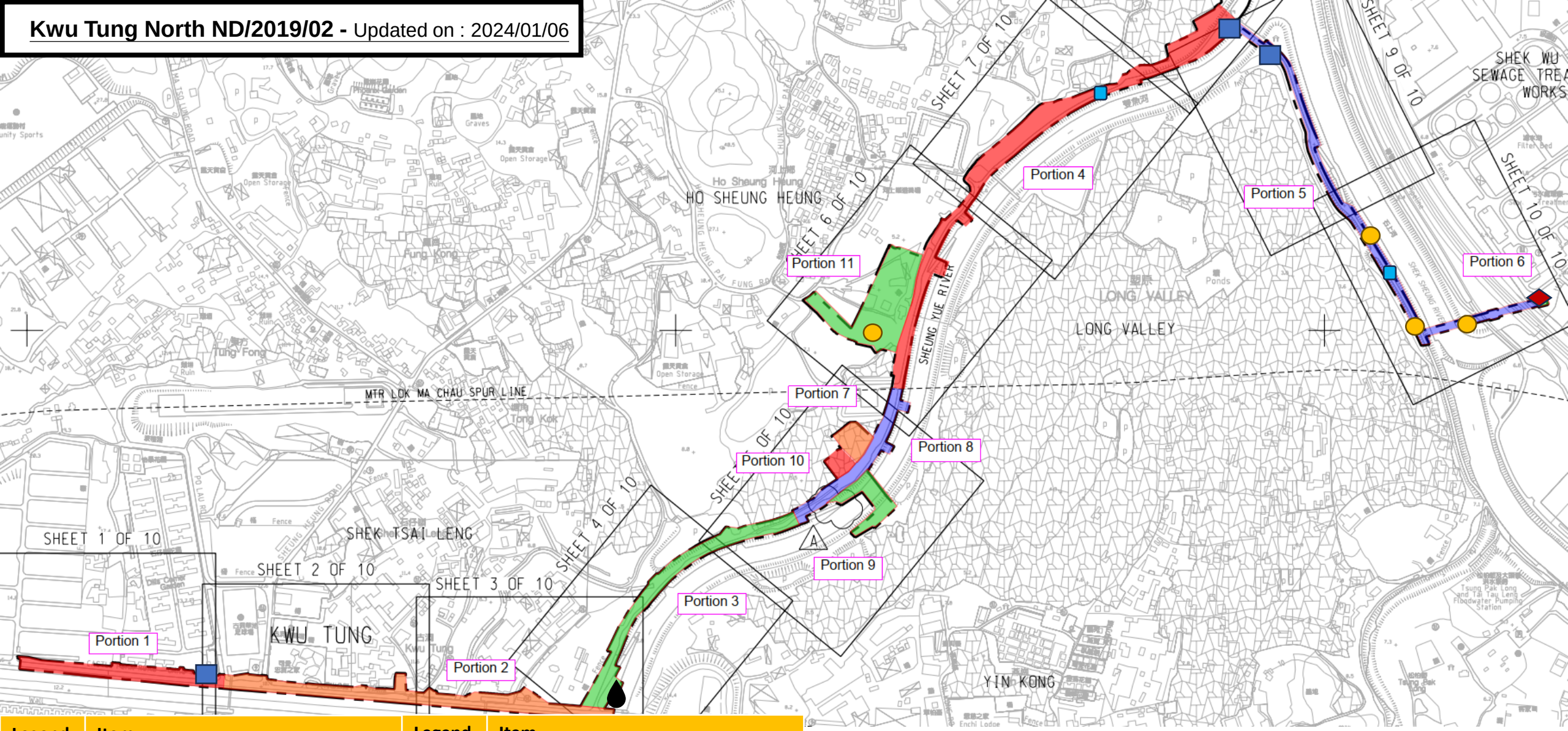
Primary Baseline
Completed Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 30-Apr-25
Project Start: 03-Feb-20
Project End: 17-Jun-26
Baseline: Monthly Programme Update (Mar 2025)

APPENDIX C -
CRITICAL WORKS PROGRAMME

Date	Revision	Checked	Approved
30-Apr-25	0	EW	PH

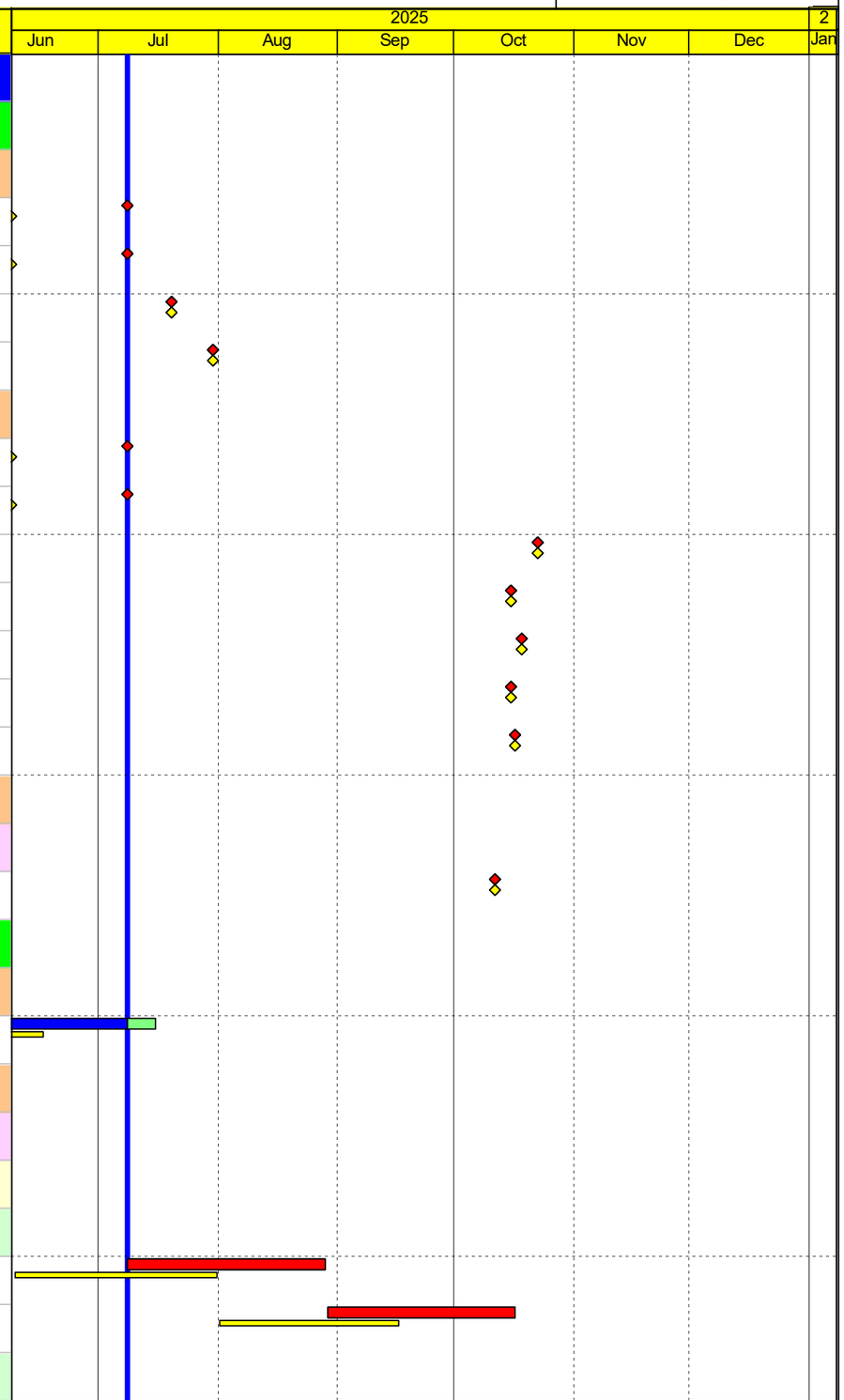
Kwu Tung North ND/2019/02 - Updated on : 2024/01/06



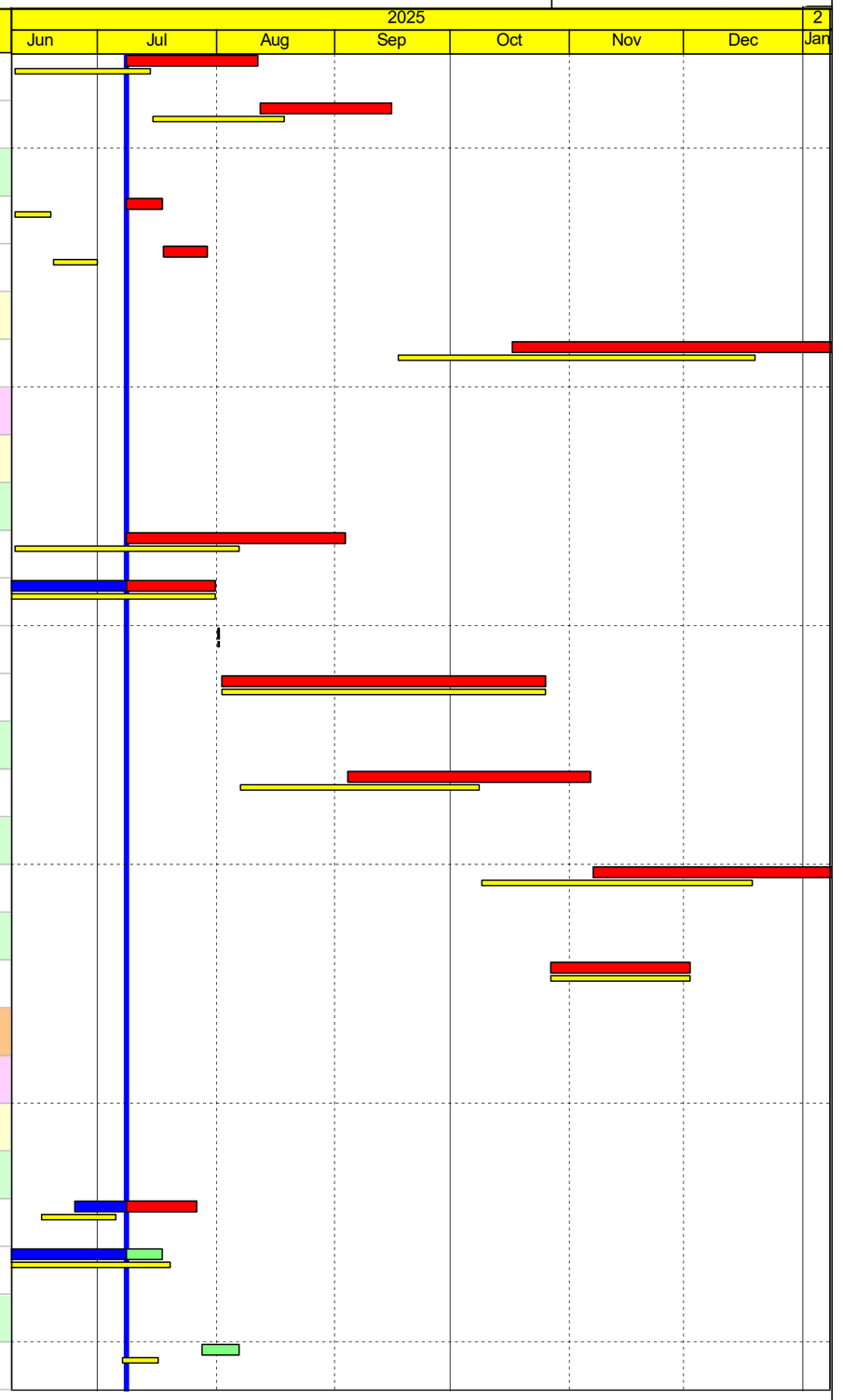
Legend	Item	Legend	Item
	Pipe Jacking		Drilling
	Wastewater Treatment Plant		Sheet piling
	Excavation		Grouting
	Pipe pile		

Construction Programme of ND/2019/04

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
2025-06 Monthly Update (based on RP11 Accepted_AECOM email of 29 May 25) (EV)									
Project Contractual Dates									
Contract Key Dates									
CD-1200	Contract KD2:Completion of sewage pumping station & associated rising mains & sewers for FS inspection (1400 days)	0	0		08-Jul-25*		08-Jun-25	-287	0%
CD-1240	Contract KD3:Completion of all works for the opening between Lung Yeuk Tau Interchange & Fanling Highway (1490 days)	0	0		08-Jul-25*		08-Jun-25	-195	0%
CD-1250	Contract KD4: Completion of all works necessary for underpass & associated Stormwater Pumping Station (1700 days)	0	0		19-Jul-25*		19-Jul-25	0	0%
CD-1260	Contract KD5: Completion of all works necessary for the Traffic Control & Surveillance System (1700 days)	0	0		30-Jul-25*		30-Jul-25	0	0%
Contract Sectional Completion Date									
CD-1210	S5 Al works within Portion N incl. landscape softworks (1490 days)	0	0		08-Jul-25*		08-Jun-25	-196	0%
CD-1220	S6 Reprovisioned public toilet & refuse collection point facility within Portion J (1490 days)	0	0		08-Jul-25*		08-Jun-25	-225	0%
CD-1230	S10A Establishment works for landscape softworks in Portion K1 (1490 days)	0	0		22-Oct-25*		22-Oct-25	0	0%
CD-1270	S8 Preservation & Protection of existing trees (1790 days)	0	0		15-Oct-25*		15-Oct-25	0	0%
CD-1280	S7 All works necessary for the commissioning of Traffic Detection System along Fanling Bypass Eastern Section(1790 days)	0	0		18-Oct-25*		18-Oct-25	0	0%
CD-1290	S9 All landscape softworks not covered by other sections of the works (1790 days)	0	0		15-Oct-25*		15-Oct-25	0	0%
CD-1300	S11 Remainder of the works not covered by other sections of the works (1790 days)	0	0		16-Oct-25*		16-Oct-25	0	0%
Planned Key Dates & Sectional Completion Date									
Planned Key Dates									
PD-1050	Planned KD2:Completion of sewage pumping station & associated rising mains (1400 days)	0	0		11-Oct-25*		11-Oct-25	-383	0%
Construction Works									
Construction_Initial Works									
CW-1070	Protection of tree at different portions (S8)	429	7	22-Jul-23 A	15-Jul-25	22-Jul-23	16-Jun-25	1	98.37%
Construction_Works in Portion A and Portion B (KD5)									
Portion A									
Portion A_Noise Barrier (NB91)									
Portion A_Stage 1 (Bay 1 - 4)									
OTH.A.1050	Port.A_NB91_S1 (Bay 1-4) :- Steel Post Installation incl. steel post (15nos, PR=3d/no per gang)	45	45	08-Jul-25	28-Aug-25	09-Jun-25	31-Jul-25	-234	0%
OTH.A.1070	Port.A_NB91_S1 (Bay 1-4) :- Panel Installation (4 bays, PR=10d/bay/gang)	40	40	29-Aug-25	16-Oct-25	01-Aug-25	16-Sep-25	-234	0%
Portion A_Stage 2 (Bay 5 - 7)									



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
OTH.A.3070	Port.A_NB91_S2 (Bay 5-7) :- Steel Post Installation (10nos, PR=3day/no per gang)	30	30	08-Jul-25	11-Aug-25	09-Jun-25	14-Jul-25	-234	0%
OTH.A.3090	Port.A_NB91_S2 (Bay 5-7) :- Panel Installation (3 bays, PR=10d/bay/gang)	30	30	12-Aug-25	15-Sep-25	15-Jul-25	18-Aug-25	-209	0%
Portion A_Stage 3 (Bay 8)									
OTH.A.4070	Port.A_NB91_S3 (Bay 8) :- Steel Post Installation (3nos, PR=3day/no per gang)	9	9	08-Jul-25	17-Jul-25	09-Jun-25	18-Jun-25	-168	0%
OTH.A.4090	Port.A_NB91_S3 (Bay 8) :- Panel Installation (1 bay, PR=10d/bay/gang)	10	10	18-Jul-25	29-Jul-25	19-Jun-25	30-Jun-25	-168	0%
UU Works									
OTH.A.5010	Port.A_UU :- Stage 1 - Drawpit Construction (etc.excavation,ELS,duct laying & backfilling) [T=26nos,PR= 6d/drawpit/gan	78	78	17-Oct-25	20-Jan-26	17-Sep-25	19-Dec-25	-234	0%
Portion B									
Portion B_Drainage and UU Works									
Portion B_Stage 2b Road L3 U-Trough and Drainage Works (after setup of FT4 at Bridge A3-02 Deck B)									
OTH.B.5410	Port.B_L3 U-T/Drain_S2b :- Stage 2b UU Works by Others - Backfill & Carry Out UU Works by Others (CLP, Gasmain, Telecom)	50	50	08-Jul-25	03-Sep-25	09-Jun-25	06-Aug-25	-132	0%
OTH.B.5430	Port.B_L3 U-T/Drain_S2b :- Stabe 2b Road L3 U-Trough bet Ch 250 & Ch 350 - Walls	50	21	03-Mar-25 A	31-Jul-25	03-Mar-25	31-Jul-25	-197	58%
OTH.B.5450	Port.B_L3 U-T/Drain_S2b :- Backfill U-Trough	1	1	01-Aug-25	01-Aug-25	01-Aug-25	01-Aug-25	-197	0%
OTH.B.5470	Port.B_L3 U-T/Drain_S2b :- Stage 2b (Drainage Works) - Backfill to Formation Level	71	71	02-Aug-25	25-Oct-25	02-Aug-25	25-Oct-25	-197	0%
Portion B_Stage 3 - Drainage Works and Outfalls									
OTH.B.5590	Port.B_Drain/Outfall_S3 :- Stage 3 - Backfill to Formation Level (F.L.)	52	52	04-Sep-25	06-Nov-25	07-Aug-25	08-Oct-25	-132	0%
Portion B_Stage 4 - Road and Drainage Works / Street Furniture / TCSS									
OTH.B.6010	Port.B_Drain/Rd/St. Furn_S4 :- Stage 4 - Road L3 Slope Works - FS07, FS08, FS09 & Landscape Softworks	60	60	07-Nov-25	19-Jan-26	09-Oct-25	18-Dec-25	-77	0%
Portion B_Stage 5 - Watermain and UU Works by Others									
Oth-B-5115	Port.B_Watrmain/UU_S5 :- DN300 Watermain (Ch LL 0 to Ch LL 250 & Ch LA 0 to Ch LA 235.037)	31	31	27-Oct-25	02-Dec-25	27-Oct-25	02-Dec-25	-197	0%
Construction_Bridge Works & Footbridge F4									
Bridge Works & Footbridge_Bridge F									
Bridge Works - Parapet (Skin Length = 2.3m/Panel)									
Parapet_From F-01 to F-03 (Length = 50m) (Length/Parapet Panel = 2.3m)									
C.F.2610	Bridge F :- Parapet from F-01 to F-03 LHS (Workfront 3) - 50m (L)	17	17	25-Jun-25 A	26-Jul-25	16-Jun-25	05-Jul-25	-71	0%
C.F.2630	Bridge F :- Parapet from F-01 to F-03 RHS (Workfront 4) - 50m (L)	17	9	23-May-25 A	17-Jul-25	23-May-25	19-Jul-25	500	47.06%
Parapet_From F-03 to F-04 (Length = 25m) (Length/Parapet Panel = 2.3m)									
C.F.2650	Bridge F :- Parapet from F-03 to F-04 LHS (Workfront 3) - 25m (L)	9	9	28-Jul-25	06-Aug-25	07-Jul-25	16-Jul-25	483	0%



Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Project ID: RP11.MU06-2025

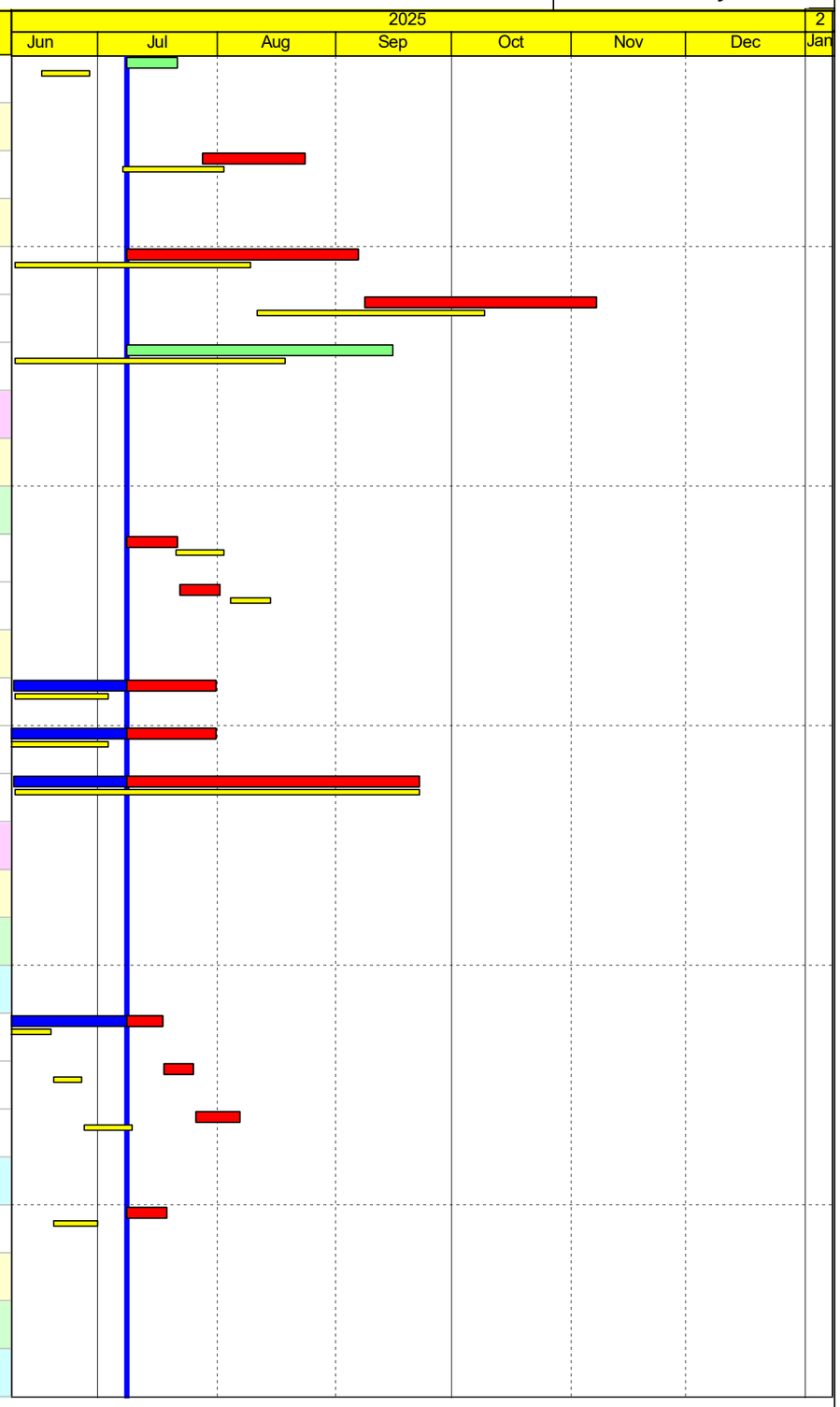
Three Months Rolling Programme (08 Jul 2025 to 31 October 2025)

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

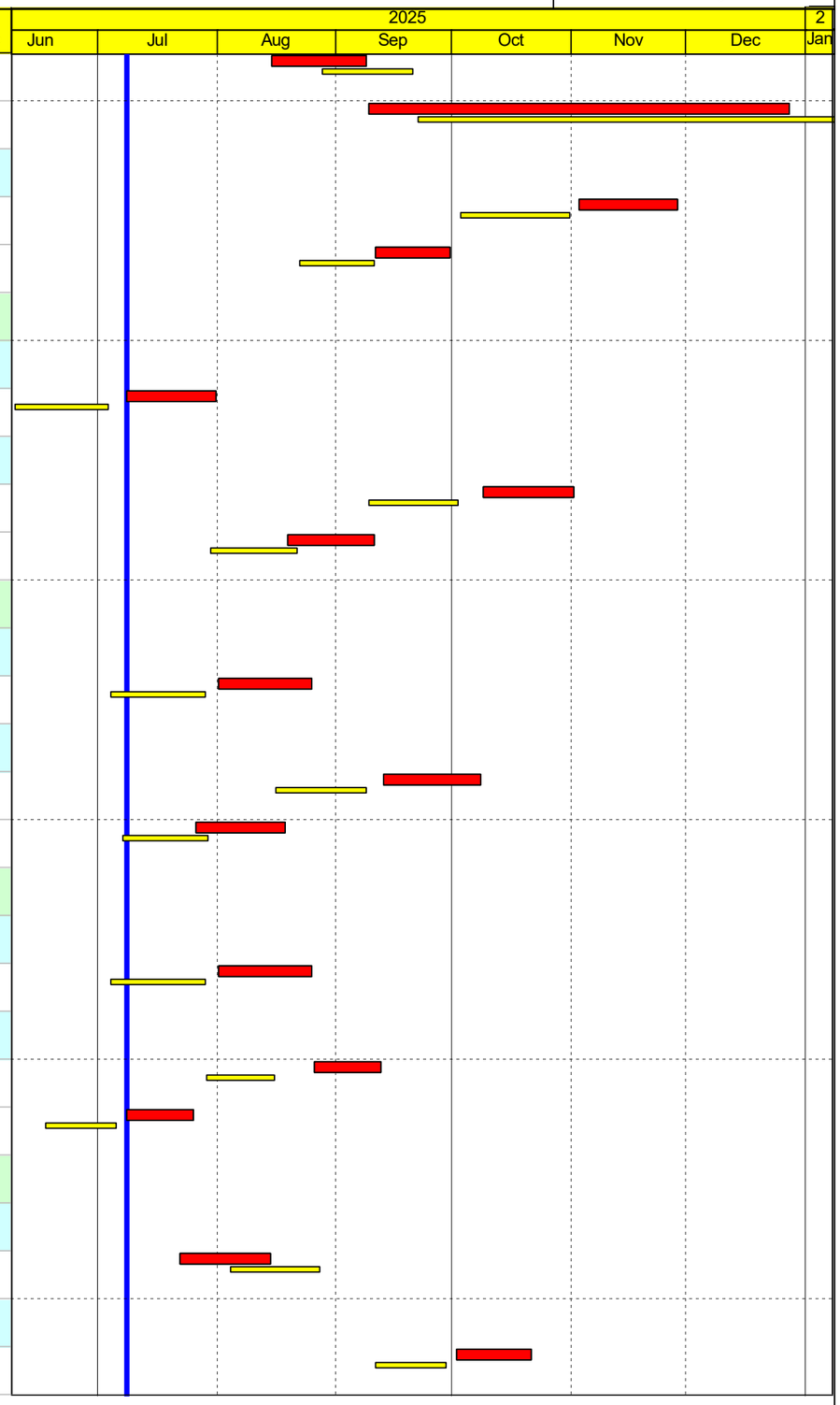
Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

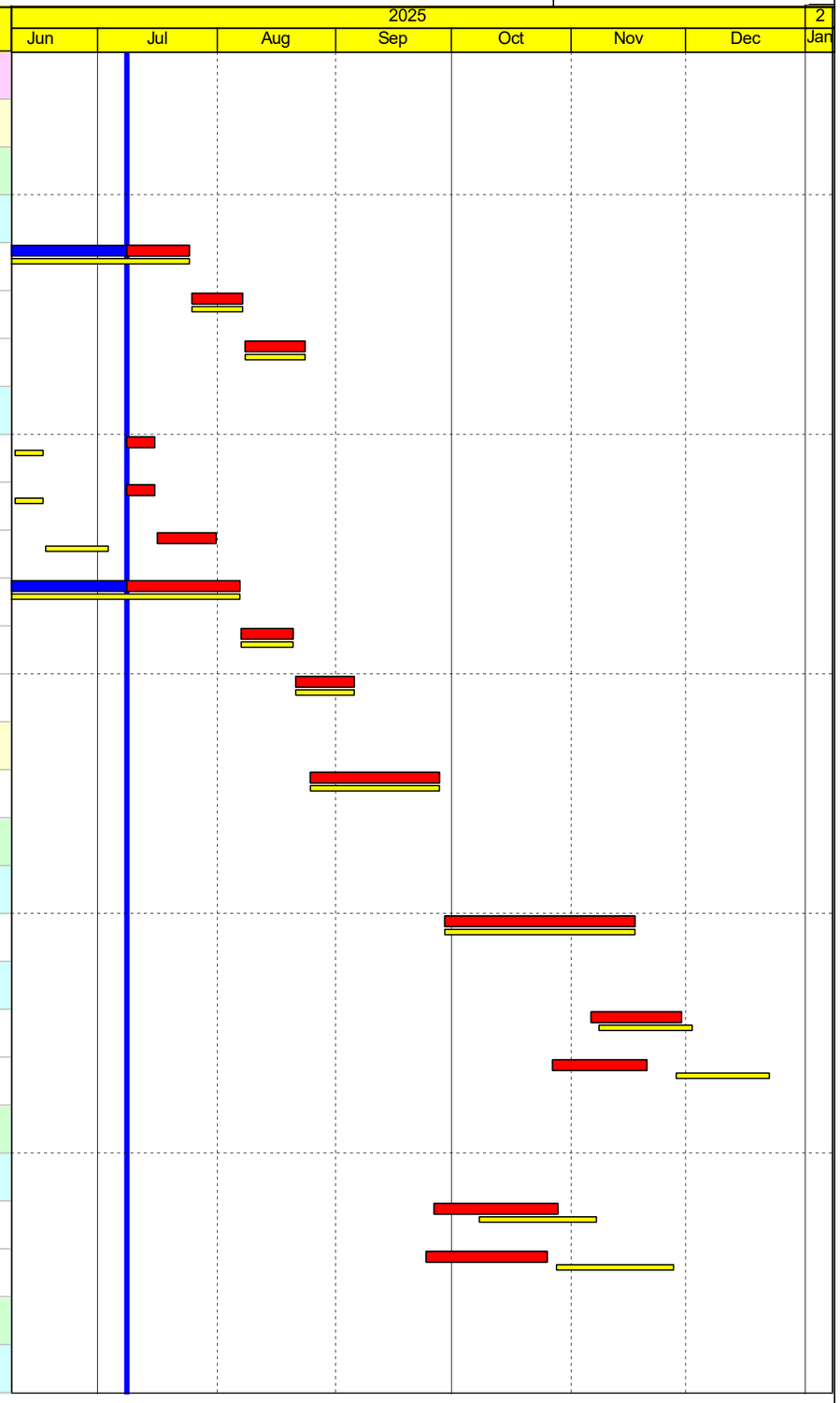
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
C.F.2670	Bridge F :- Parapet from F-03 to F-04 RHS (Workfront 4) - 25m (L)	12	12	08-Jul-25	21-Jul-25	16-Jun-25	28-Jun-25	497	0%
	Central Median between F-01 and F-03								
C.F.2690	Bridge F :- Central Median btw F-01 to F-03	24	24	28-Jul-25	23-Aug-25	07-Jul-25	02-Aug-25	-71	0%
	Slope reinstatement in both sides of Ng Tung River								
C.F.2730	At grade road btw Bridge F & A1 (Portion C) (S7)-Stage 1 (parapet & central median)	53	53	08-Jul-25	06-Sep-25	09-Jun-25	09-Aug-25	-109	0%
C.F.2750	At grade road btw Bridge F & A1 (Portion C) (S7)-Stage 2 (remaining road works)	50	50	08-Sep-25	07-Nov-25	11-Aug-25	09-Oct-25	-16	0%
C.F4.2710	Reinstate the slope in both sides	60	60	08-Jul-25	15-Sep-25	09-Jun-25	18-Aug-25	25	0%
	Bridge Works & Footbridge_Bridge A1								
	Construction of Bridge A1 Deck								
	A1 Deck_From Piers A1-06 to A2-01 (Deck B)								
C.A1D.1690	Bridge A1 Deck B :- Post tensioning slab tendons btw A1-06 & A2-01 (Deck B)	12	12	08-Jul-25	21-Jul-25	21-Jul-25	02-Aug-25	-190	0%
C.A1D.1710	Bridge A1 Deck B :- Removal of scaffolding btw A1-06 & A2-01 (Deck B)	10	10	22-Jul-25	01-Aug-25	04-Aug-25	14-Aug-25	-153	0%
	Bridge A1 (Stitching, Central Median and Parapet)								
C.A1P.1010	Bridge A1 :- Long. Stitch (Bridge A1)- 1 span, btw A1-05 & A1-06	21	21	09-Jun-25 A	31-Jul-25	09-Jun-25	03-Jul-25	-51	0%
C.A1P.1030	Bridge A1 :- Long. Stitch (Bridge A1)- 1 span, btw A1-05 & A1-03	42	21	27-Mar-25 A	31-Jul-25	27-Mar-25	03-Jul-25	-51	50%
C.A1P.1230	Bridge A1 :- Central Median (Bridge A1)- 1 span, btw A1-01 & A1-06	90	66	09-Jun-25 A	22-Sep-25	09-Jun-25	22-Sep-25	-112	26.67%
	Bridge Works & Footbridge_Bridge A2								
	Construction of Bridge A2 Deck								
	Form Traveler and Segment Erection Works								
	Form Traveler 1 (FT1)								
C.A2D.1310	FT1 :- Bridge A2 by FT1 at Pier A2-05) Deck A 4 pairs + key segment (11d/pair cycle time)	55	9	03-Jan-25 A	17-Jul-25	03-Jan-25	18-Jun-25	-213	83.64%
C.A2D.1510	FT1 :- Post tensioning slab tendons btw A2-04 & A2-05 (incl. achieve concrete strength)	7	7	18-Jul-25	25-Jul-25	19-Jun-25	26-Jun-25	-213	0%
C.A2D.1530	FT1 :- Dismantle FT1 at A2-05 Deck A	10	10	26-Jul-25	06-Aug-25	27-Jun-25	09-Jul-25	-213	0%
	Form Traveler 2 (FT2)								
C.A2D.1690	FT2 :- Dismantle FT2 at A2-05 Deck B	10	10	08-Jul-25	18-Jul-25	19-Jun-25	30-Jun-25	-197	0%
	Bridge A2 (Stitching, Central Median and Parapet)								
	A2 - Stitching, Central Median, Parapet From A2-01 to A2-02 (Length = 49m)								
	A2 - Stitching & Central Median								



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
C.A2P.1230	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-01 & A2-02 (after cast insitu decking)	21	21	15-Aug-25	08-Sep-25	28-Aug-25	20-Sep-25	-190	0%
C.A2P.1310	Bridge A2 :- Central Median (Bridge A2)- btw A2-01 & A2-05	90	90	09-Sep-25	27-Dec-25	22-Sep-25	10-Jan-26	-190	0%
A2 - Parapet									
C.A2P.1250	Bridge A2 :- Parapet from A2-01 to A2-02 Deck A (Workfront 2) - 49m (L)	23	23	03-Nov-25	28-Nov-25	03-Oct-25	31-Oct-25	-229	0%
C.A2P.1270	Bridge A2 :- Parapet from A2-01 to A2-02 Deck B (Workfront 1) - 49m (L)	17	17	11-Sep-25	30-Sep-25	22-Aug-25	10-Sep-25	-104	0%
A2 - Stitching, Central Median, Parapet From A2-02 to A2-03 (Length = 55.5m)									
A2 - Stitching & Central Median									
C.A2P.1050	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-02 & A2-03 (after FT works)	21	21	08-Jul-25	31-Jul-25	09-Jun-25	03-Jul-25	-229	0%
A2 - Parapet									
C.A2P.1070	Bridge A2 :- Parapet from A2-02 to A2-03 Deck A (Workfront 2) - 55.5m (L)	20	20	09-Oct-25	01-Nov-25	09-Sep-25	02-Oct-25	-229	0%
C.A2P.1130	Bridge A2 :- Parapet from A2-02 to A2-03 Deck B (Workfront 1) - 55.5m (L)	20	20	19-Aug-25	10-Sep-25	30-Jul-25	21-Aug-25	-104	0%
A2 - Stitching, Central Median, Parapet From A2-03 to A2-04 (Length = 55.5m)									
A2 - Stitching & Central Median									
C.A2P.1010	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-03 & A2-04 (after FT works)	21	21	01-Aug-25	25-Aug-25	04-Jul-25	28-Jul-25	-213	0%
A2 - Parapet									
C.A2P.1030	Bridge A2 :- Parapet from A2-03 to A2-04 Deck A (Workfront 2) - 55.5m (L)	20	20	13-Sep-25	08-Oct-25	16-Aug-25	08-Sep-25	-229	0%
C.A2P.1150	Bridge A2 :- Parapet from A2-03 to A2-04 Deck B (Workfront 1) - 55.5m (L)	20	20	26-Jul-25	18-Aug-25	07-Jul-25	29-Jul-25	-104	0%
A2 - Stitching, Central Median, Parapet From A2-04 to A2-05 (Length = 45m)									
A2 - Stitching & Central Median									
C.A2P.1090	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-04 & A2-05 (after FT works)	21	21	01-Aug-25	25-Aug-25	04-Jul-25	28-Jul-25	-229	0%
A2 - Parapet									
C.A2P.1110	Bridge A2 :- Parapet from A2-04 to A2-05 Deck A (Workfront 2) - 45m (L)	16	16	26-Aug-25	12-Sep-25	29-Jul-25	15-Aug-25	-229	0%
C.A2P.1170	Bridge A2 :- Parapet from A2-04 to A2-05 Deck B (Workfront 1) - 45m (L)	16	16	08-Jul-25	25-Jul-25	17-Jun-25	05-Jul-25	-104	0%
A2 - Stitching, Central Median, Parapet From A1-06 to A2-01 (Length = 45m)									
A2 - Stitching & Central Median									
C.A2P.1190	Bridge A2 :- Long. Stitch (Bridge A2)- btw A1-06 & A2-01(after cast insitu decking)	21	21	22-Jul-25	14-Aug-25	04-Aug-25	27-Aug-25	-190	0%
A2 - Parapet									
C.A2P.1290	Bridge A2 :- Parapet from A1-06 to A2-01 Deck B (Workfront 1) - 45m (L)	16	16	02-Oct-25	21-Oct-25	11-Sep-25	29-Sep-25	-104	0%



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Bridge Works & Footbridge_Bridge A3								
	Construction of Bridge A3 Deck								
	Form Traveler and Segment Erection Works and Cast-In-Situ Decking								
	Form Traveler 3 (FT3)								
C.A3D.1830	FT3 :- Bridge A3 at Pier A3-03 Deck B cast-in situ span	55	15	28-Feb-25 A	24-Jul-25	28-Feb-25	24-Jul-25	-200	72.73%
C.A3D.1850	FT3 :- Post tensioning slab tendons btw A3-02 & A3-03 Deck B (incl. achieve concrete strength)	12	12	25-Jul-25	07-Aug-25	25-Jul-25	07-Aug-25	-200	0%
C.A3D.1870	FT3 :- Removal of scaffolding at A3-03 Deck B	14	14	08-Aug-25	23-Aug-25	08-Aug-25	23-Aug-25	-200	0%
	Form Traveler 4 (FT4)								
C.A3D.2030	FT4 :- Post tensioning slab tendons btw A3-01 & A3-02 (incl. achieve concrete strength)	7	7	08-Jul-25	15-Jul-25	09-Jun-25	16-Jun-25	-91	0%
C.A3D.2050	FT4 :- Post tensioning slab tendons btw A2-05 & A3-01 (incl. achieve concrete strength)	7	7	08-Jul-25	15-Jul-25	09-Jun-25	16-Jun-25	-91	0%
C.A3D.2070	FT4 :- Dismantle FT4 at A3-01 Deck B	14	14	16-Jul-25	31-Jul-25	17-Jun-25	03-Jul-25	-91	0%
C.A3D.2110	FT4 :- Bridge A3 Pier A3-01 Deck A cast-in situ span	55	26	31-Mar-25 A	06-Aug-25	31-Mar-25	06-Aug-25	-197	52.73%
C.A3D.2130	FT4 :- Post tensioning slab tendons btw A3-01 & A3-02 Deck A (incl. achieve concrete strength)	12	12	07-Aug-25	20-Aug-25	07-Aug-25	20-Aug-25	-197	0%
C.A3D.2150	FT4 :- Removal of scaffolding at A3-01 Deck A	14	14	21-Aug-25	05-Sep-25	21-Aug-25	05-Sep-25	-181	0%
	Bridge A3 (Stitching, Central Median and Parapet)								
C.A3ET.1010	Bridge A3 :- Apply external tendon stressing (Bridge A3)	30	30	25-Aug-25	27-Sep-25	25-Aug-25	27-Sep-25	-200	0%
	A3 - Stitching, Central Median, Parapet From A2-05 to A3-01 (Length = 59m)								
	A3 - Stitching & Central Median								
C.A3P.1010	Bridge A3 :- Long. Stitch (Bridge A3)- btw A2-05 & A3-06 (L = 449m)	40	40	29-Sep-25	17-Nov-25	29-Sep-25	17-Nov-25	-200	0%
	A3 - Parapet								
C.A3P.1030	Bridge A3 :- Parapet from A2-05 to A3-01 Deck A (Workfront 3) - 59m (L)	21	21	06-Nov-25	29-Nov-25	08-Nov-25	02-Dec-25	-137	0%
C.A3P.1050	Bridge A3 :- Parapet from A2-05 to A3-01 Deck B (Workfront 4) - 59m (L)	21	21	27-Oct-25	20-Nov-25	28-Nov-25	22-Dec-25	-129	0%
	A3 - Stitching, Central Median, Parapet From A3-01 to A3-02 (Length = 77m)								
	A3 - Parapet								
C.A3P.1070	Bridge A3 :- Parapet from A3-01 to A3-02 Deck A (Workfront 3) - 77m (L)	26	26	26-Sep-25	28-Oct-25	08-Oct-25	07-Nov-25	-131	0%
C.A3P.1170	Bridge A3 :- Parapet from A3-01 to A3-02 Deck B (Workfront 4) - 77m (L)	26	26	24-Sep-25	25-Oct-25	28-Oct-25	27-Nov-25	-129	0%
	A3 - Stitching, Central Median, Parapet From A3-02 to A3-03 (Length = 79m)								
	A3 - Parapet								



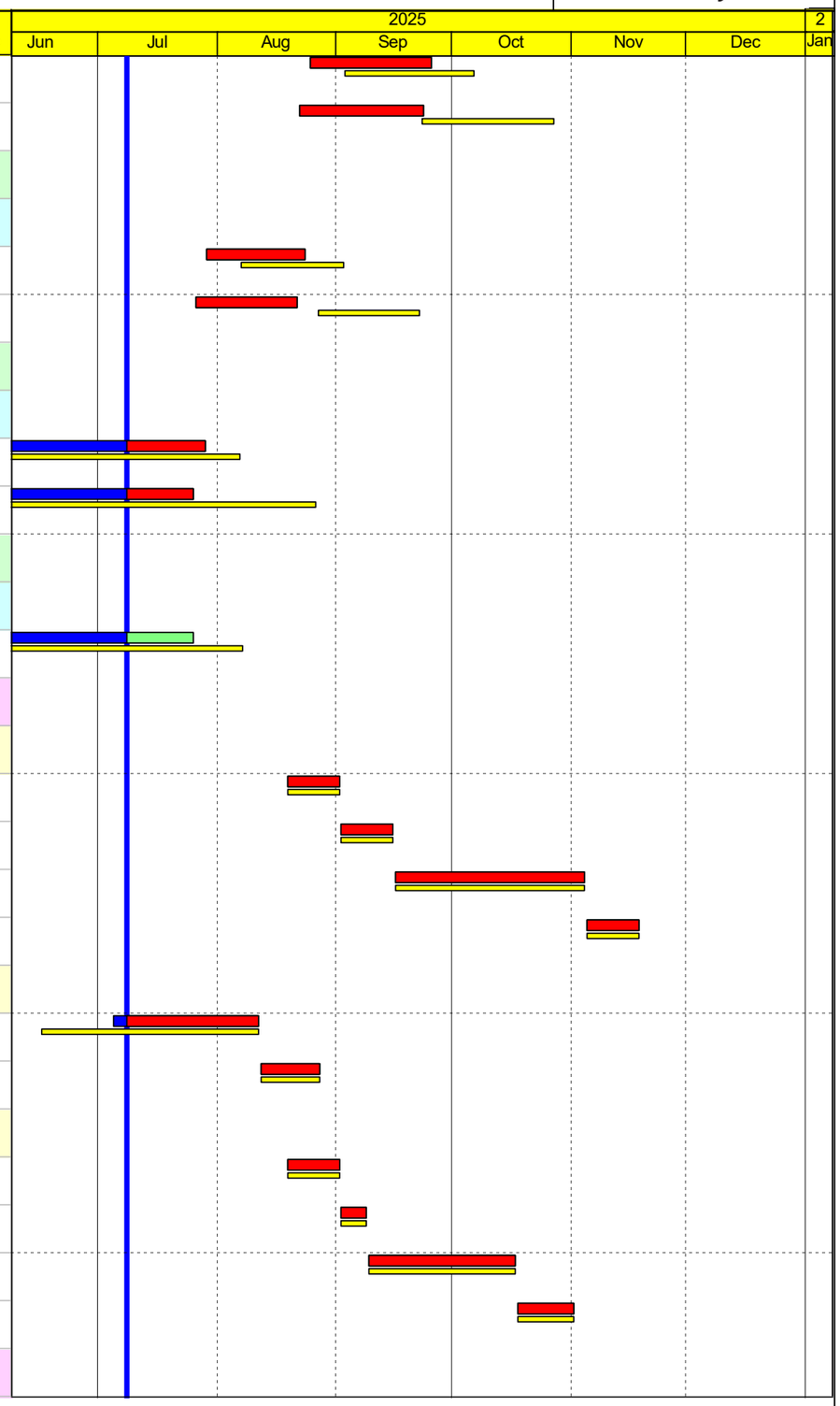
Remaining Work | Crit Milestone | Milestone | Actual Work | Baseline Milestone | Actual Milestone | Project Baseline | Critical Remaining Work

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

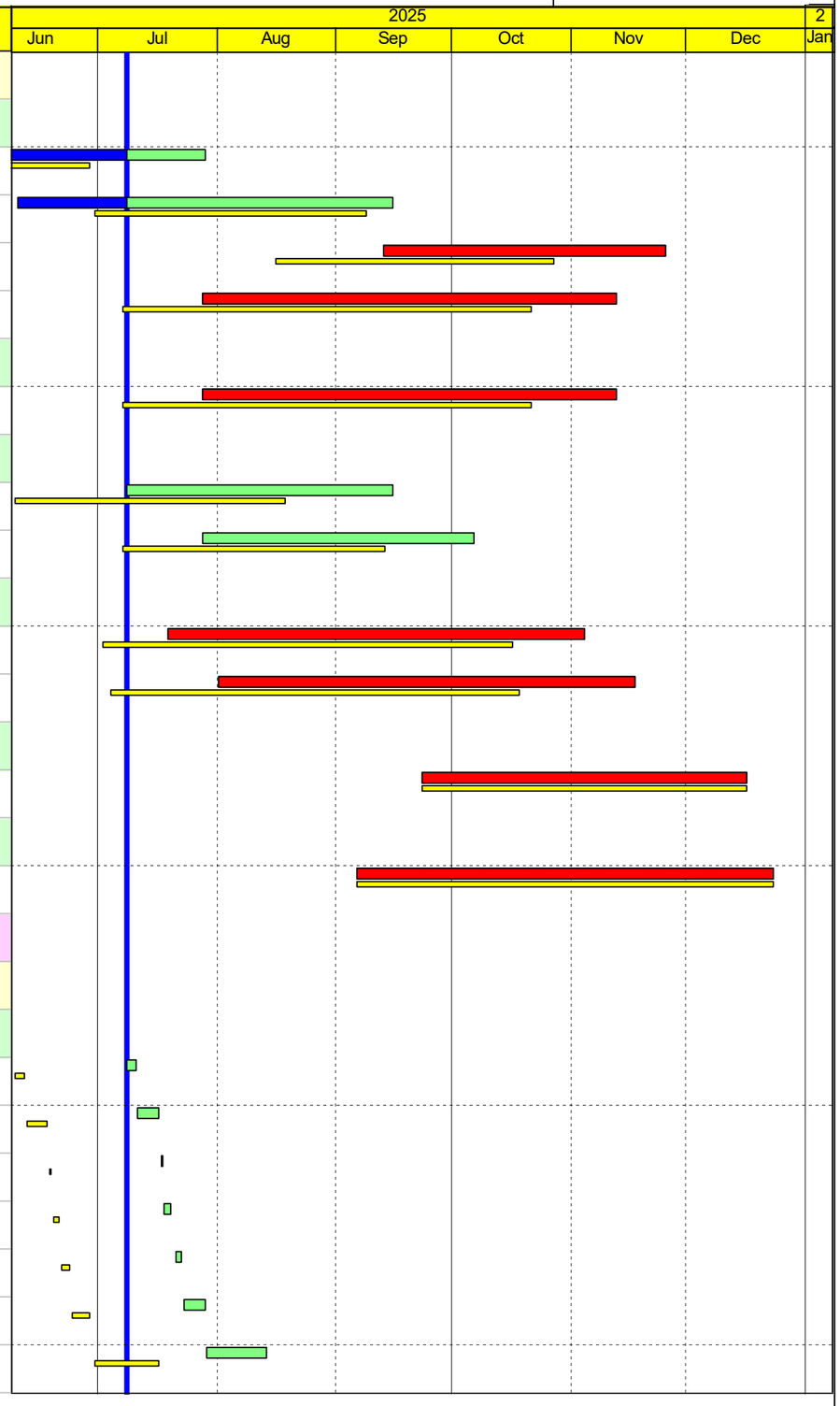
Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
C.A3P.1090	Bridge A3 :- Parapet from A3-02 to A3-03 Deck A (Workfront 3) - 79m (L)	28	28	25-Aug-25	25-Sep-25	03-Sep-25	06-Oct-25	-131	0%
C.A3P.1190	Bridge A3 :- Parapet from A3-02 to A3-03 Deck B (Workfront 4) - 79m (L)	28	28	22-Aug-25	23-Sep-25	23-Sep-25	27-Oct-25	-129	0%
A3 - Stitching, Central Median, Parapet From A3-03 to A3-04 (Length = 65m)									
A3 - Parapet									
C.A3P.1110	Bridge A3 :- Parapet from A3-03 to A3-04 Deck A (Workfront 3) - 65m (L)	23	23	29-Jul-25	23-Aug-25	07-Aug-25	02-Sep-25	-131	0%
C.A3P.1210	Bridge A3 :- Parapet from A3-03 to A3-04 Deck B (Workfront 4) - 65m (L)	23	23	26-Jul-25	21-Aug-25	27-Aug-25	22-Sep-25	-129	0%
A3 - Stitching, Central Median, Parapet From A3-04 to A3-05 (Length = 52m)									
A3 - Parapet									
C.A3P.1130	Bridge A3 :- Parapet from A3-04 to A3-05 Deck A (Workfront 3) - 52m (L)	18	18	26-Mar-25 A	28-Jul-25	26-Mar-25	06-Aug-25	-131	0%
C.A3P.1230	Bridge A3 :- Parapet from A3-04 to A3-05 Deck B (Workfront 4) - 52m (L)	16	16	05-Apr-25 A	25-Jul-25	05-Apr-25	26-Aug-25	-129	0%
A3 - Stitching, Central Median, Parapet From A3-05 to A3-06 (Length = 42m)									
A3 - Parapet									
C.A3P.1250	Bridge A3 :- Parapet from A3-05 to A3-06 Deck B (Workfront 4) - 42m (L)	16	16	05-Apr-25 A	25-Jul-25	05-Apr-25	07-Aug-25	493	0%
G - Stitching, Central Median, Parapet Bridge Works & Footbridge_Bridge G									
Bridge G Deck From Piers G01 to G02 (mid May start)									
C.G1D.1010	Bridge G Deck :- Bridge G (G-01 to G-02)-Falsework	12	12	19-Aug-25	01-Sep-25	19-Aug-25	01-Sep-25	-192	0%
C.G1D.1030	Bridge G Deck :- Installation of bearing (G-01 to G-02)	12	12	02-Sep-25	15-Sep-25	02-Sep-25	15-Sep-25	-192	0%
C.G1D.1050	Bridge G Deck :- Bridge G (G-01 to G-02)-Bridge deck + Curing (21d)	40	40	16-Sep-25	04-Nov-25	16-Sep-25	04-Nov-25	-192	0%
C.G1D.1070	Bridge G Deck :- Bridge G (G-01 to G-02)-removal of scaffolding	12	12	05-Nov-25	18-Nov-25	05-Nov-25	18-Nov-25	-182	0%
Bridge G Deck From Piers G02 to G05									
C.G1D.1110	Bridge G Deck :- Bridge G (G-02 to G-05)-Bridge deck + Curing (21d)	48	30	05-Jul-25 A	11-Aug-25	16-Jun-25	11-Aug-25	-192	37.5%
C.G1D.1130	Bridge G Deck :- Bridge G (G-02 to G-05)-removal of scaffolding	14	14	12-Aug-25	27-Aug-25	12-Aug-25	27-Aug-25	-136	0%
Bridge G Deck From Piers G05 to G06									
C.G1D.1150	Bridge G Deck :- Bridge G (G-05 to G-06)-Falsework	12	12	19-Aug-25	01-Sep-25	19-Aug-25	01-Sep-25	-192	0%
C.G1D.1170	Bridge G Deck :- Installation of bearing for G-06	6	6	02-Sep-25	08-Sep-25	02-Sep-25	08-Sep-25	-178	0%
C.G1D.1190	Bridge G Deck :- Bridge G (G-05 to G-06)-Bridge deck + Curing (21d)	32	32	09-Sep-25	17-Oct-25	09-Sep-25	17-Oct-25	-178	0%
C.G1D.1210	Bridge G Deck :- Bridge G (G-05 to G-06)-removal of scaffolding	12	12	18-Oct-25	01-Nov-25	18-Oct-25	01-Nov-25	-168	0%
Bridge Works & Footbridge_Construction of Bridge Furniture									



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Other Bridge Deck Works (NB, Gantry, Lighting, Paving, Rd. Mark, TCSS/TDS, Drainage & Landscape)								
	Last Insitu Bays Parapets, Noise Barriers and Sign Gantry Works								
C.NB-1030	Fabrication & Delivery of Sign Gantry for Bridge A1, A2, A3 & Bridge F	120	18	26-Sep-24 A	28-Jul-25	26-Sep-24	28-Jun-25	7	85%
C.NB-1050	Sign Gantry & Noise Barriers NB21, NB22 for Bridge A1	60	60	10-Jun-25 A	15-Sep-25	30-Jun-25	08-Sep-25	25	0%
C.NB-1070	Sign Gantry & Noise Barrier NB22 for Bridge A2	60	60	13-Sep-25	25-Nov-25	16-Aug-25	27-Oct-25	-33	0%
C.NB-1110	Noise Barrier NB 48, 92, 93 for Bridge F	90	90	28-Jul-25	12-Nov-25	07-Jul-25	21-Oct-25	-22	0%
	Road Lighting and Deck Void Lighting								
C.LG-1090	Remaining Road Lighting for Bridge F	90	90	28-Jul-25	12-Nov-25	07-Jul-25	21-Oct-25	-22	0%
	Paving and Road Markings								
C.PR-1010	Paving & Road Marking works for Bridge A1	60	60	08-Jul-25	15-Sep-25	09-Jun-25	18-Aug-25	25	0%
C.PR-1070	Paving & Road Marking works for Bridge F4	60	60	28-Jul-25	06-Oct-25	07-Jul-25	13-Sep-25	8	0%
	Road Works and Drainage Works								
C.DW-1010	Road works & Drainage works (Bridge A2)	90	90	19-Jul-25	04-Nov-25	02-Jul-25	16-Oct-25	-80	0%
C.DW-1030	Road works & Drainage works (Bridge A3)	90	90	01-Aug-25	17-Nov-25	04-Jul-25	18-Oct-25	-91	0%
	TCSS and TDS								
C.TS-1030	Bridge Areas :- Installation of TDS equipment (Power supply system, ctrl. & Signing works)_Location near A2-04	70	70	23-Sep-25	16-Dec-25	23-Sep-25	16-Dec-25	-81	0%
	Landscape Works (Bridge Area)								
C.LS-1010	Landscape (Bridge Area) :- Landscape Works	90	90	06-Sep-25	23-Dec-25	06-Sep-25	23-Dec-25	-134	0%
	Bridge Works & Footbridge_Construction of Outfall at Bridge Area								
	Outfall 8504								
	Outfall 8504 Construction								
OLF.8504-11(	Outfall 8504 :- Mobilize & Setting Out	3	3	08-Jul-25	10-Jul-25	09-Jun-25	11-Jun-25	16	0%
OLF.8504-13(	Outfall 8504 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	11-Jul-25	16-Jul-25	12-Jun-25	17-Jun-25	16	0%
OLF.8504-15(	Outfall 8504 :- Remove Existing Grasscrete	1	1	17-Jul-25	17-Jul-25	18-Jun-25	18-Jun-25	16	0%
OLF.8504-17(	Outfall 8504 :- Open Cut Excavation to Founding Level	2	2	18-Jul-25	19-Jul-25	19-Jun-25	20-Jun-25	16	0%
OLF.8504-19(	Outfall 8504 :- Install Geotextile,rockfill & concrete blinding	2	2	21-Jul-25	22-Jul-25	21-Jun-25	23-Jun-25	16	0%
OLF.8504-21(	Outfall 8504 :- Base Slab - Erect Formworks	5	5	23-Jul-25	28-Jul-25	24-Jun-25	28-Jun-25	16	0%
OLF.8504-23(	Outfall 8504 :- Base Slab -Rebars Fixing & Cast	14	14	29-Jul-25	13-Aug-25	30-Jun-25	16-Jul-25	16	0%



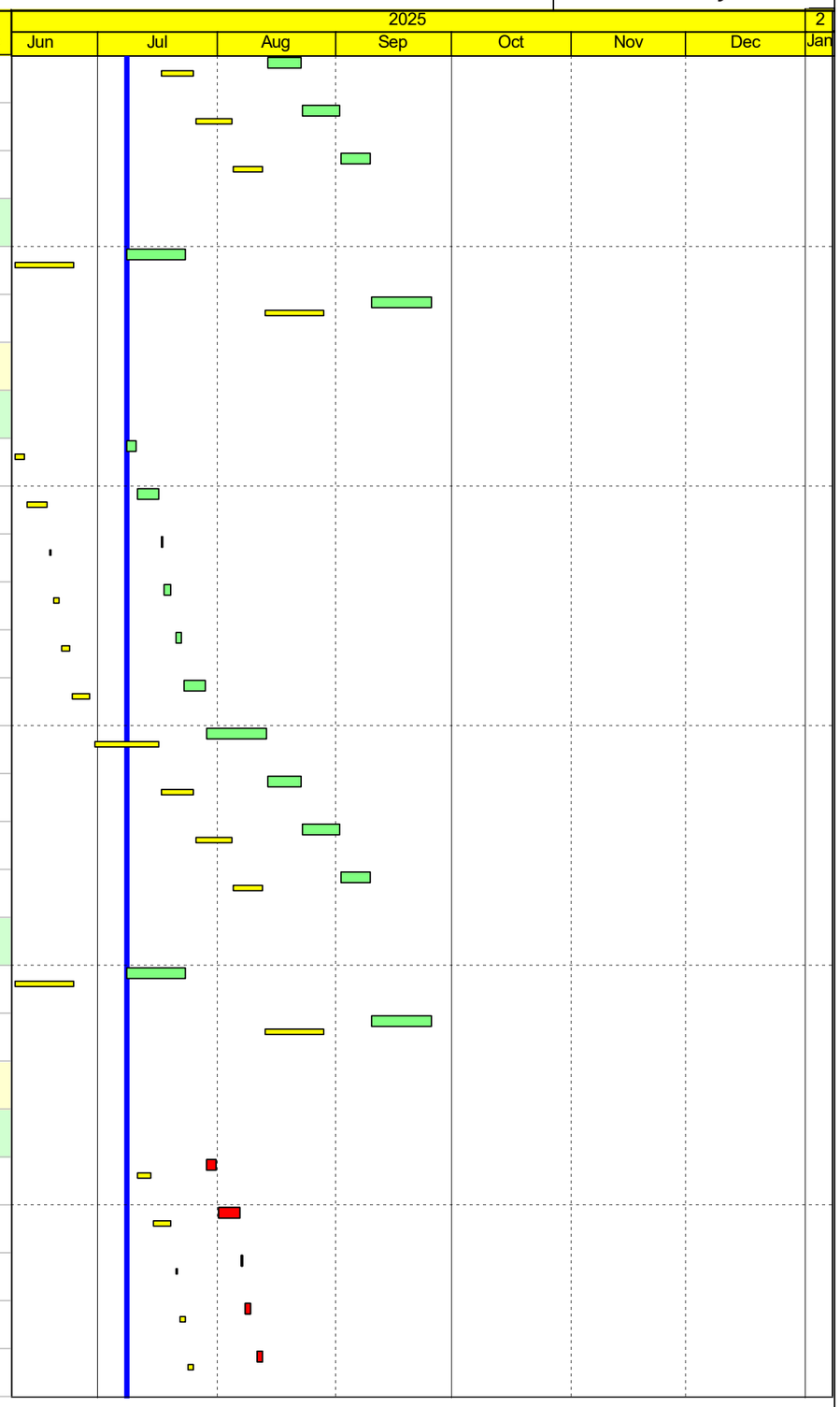
Remaining Work | Crit Milestone | Milestone | Actual Work | Baseline Milestone | Actual Milestone | Project Baseline | Critical Remaining Work

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

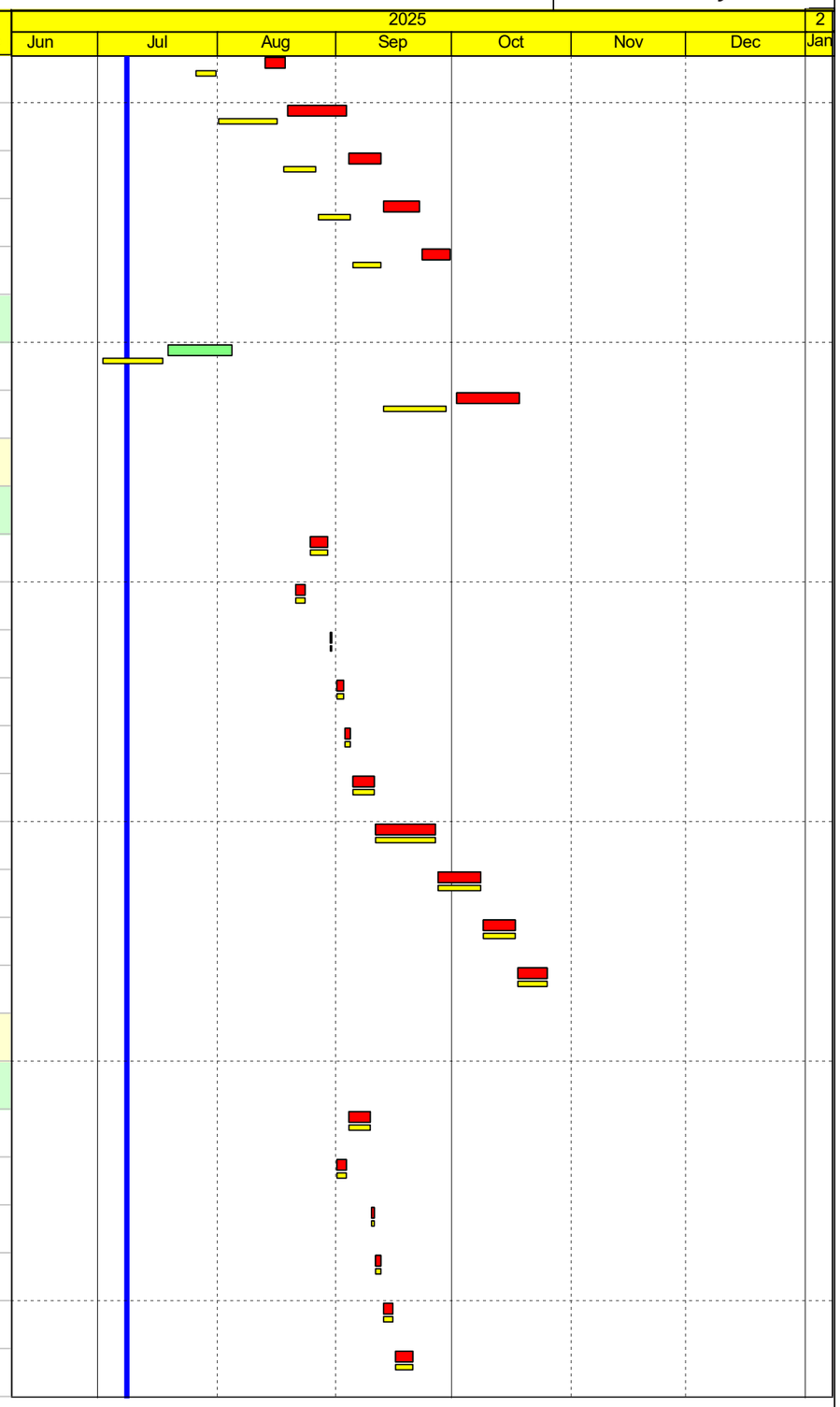
Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
OLF.8504-250	Outfall 8504 :- Walls -Erect Scaffolding	8	8	14-Aug-25	22-Aug-25	17-Jul-25	25-Jul-25	16	0%
OLF.8504-270	Outfall 8504 :- Walls - Rebars Fixing	8	8	23-Aug-25	01-Sep-25	26-Jul-25	04-Aug-25	16	0%
OLF.8504-290	Outfall 8504 :- Walls - Erect Formworks & Cast	7	7	02-Sep-25	09-Sep-25	05-Aug-25	12-Aug-25	16	0%
Outfall 8504 Drainage and Reinstatement									
OLF.8504-310	Outfall 8504 :- Pipe laying DN600 Precast Pipe & Seal Opening	14	14	08-Jul-25	23-Jul-25	09-Jun-25	24-Jun-25	57	0%
OLF.8504-330	Outfall 8504 :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	10-Sep-25	25-Sep-25	13-Aug-25	28-Aug-25	16	0%
Outfall 8511									
Outfall 8511 Structure									
OLF.8511-110	Outfall 8511 :- Mobilize & Setting Out	3	3	08-Jul-25	10-Jul-25	09-Jun-25	11-Jun-25	16	0%
OLF.8511-130	Outfall 8511 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	11-Jul-25	16-Jul-25	12-Jun-25	17-Jun-25	16	0%
OLF.8511-150	Outfall 8511 :- Remove Existing Grasscrete	1	1	17-Jul-25	17-Jul-25	18-Jun-25	18-Jun-25	16	0%
OLF.8511-170	Outfall 8511 :- Open Cut Excavation to Founding Level	2	2	18-Jul-25	19-Jul-25	19-Jun-25	20-Jun-25	16	0%
OLF.8511-190	Outfall 8511 :- Install Geotextile,rockfill & concrete blinding	2	2	21-Jul-25	22-Jul-25	21-Jun-25	23-Jun-25	16	0%
OLF.8511-210	Outfall 8511 :- Base Slab - Erect Formworks	5	5	23-Jul-25	28-Jul-25	24-Jun-25	28-Jun-25	16	0%
OLF.8511-230	Outfall 8511 :- Base Slab -Rebars Fixing & Cast	14	14	29-Jul-25	13-Aug-25	30-Jun-25	16-Jul-25	16	0%
OLF.8511-250	Outfall 8511 :- Walls -Erect Scaffolding	8	8	14-Aug-25	22-Aug-25	17-Jul-25	25-Jul-25	16	0%
OLF.8511-270	Outfall 8511 :- Walls - Rebars Fixing	8	8	23-Aug-25	01-Sep-25	26-Jul-25	04-Aug-25	16	0%
OLF.8511-290	Outfall 8511 :- Walls - Erect Formworks & Cast	7	7	02-Sep-25	09-Sep-25	05-Aug-25	12-Aug-25	16	0%
Outfall 8511 Drainage and Reinstatement									
OLF.8511-310	Outfall 8511 :- Pipe laying DN450 Precast Pipe & Seal Opening	14	14	08-Jul-25	23-Jul-25	09-Jun-25	24-Jun-25	57	0%
OLF.8511-330	Outfall 8511 :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	10-Sep-25	25-Sep-25	13-Aug-25	28-Aug-25	16	0%
Outfall 8524A									
Outfall 8524A Structure									
OLF.8524-110	Outfall 8524A :- Mobilize & Setting Out	3	3	29-Jul-25	31-Jul-25	11-Jul-25	14-Jul-25	-2	0%
OLF.8524-130	Outfall 8524A :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	01-Aug-25	06-Aug-25	15-Jul-25	19-Jul-25	-2	0%
OLF.8524-150	Outfall 8524A :- Remove Existing Grasscrete	1	1	07-Aug-25	07-Aug-25	21-Jul-25	21-Jul-25	-2	0%
OLF.8524-170	Outfall 8524A :- Open Cut Excavation to Founding Level	2	2	08-Aug-25	09-Aug-25	22-Jul-25	23-Jul-25	-2	0%
OLF.8524-190	Outfall 8524A :- Install Geotextile,rockfill & concrete blinding	2	2	11-Aug-25	12-Aug-25	24-Jul-25	25-Jul-25	-2	0%



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
OLF.8524-210	Outfall 8524A :- Base Slab - Erect Formworks	5	5	13-Aug-25	18-Aug-25	26-Jul-25	31-Jul-25	-2	0%
OLF.8524-230	Outfall 8524A :- Base Slab -Rebars Fixing & Cast	14	14	19-Aug-25	03-Sep-25	01-Aug-25	16-Aug-25	-2	0%
OLF.8524-250	Outfall 8524A :- Walls -Erect Scaffolding	8	8	04-Sep-25	12-Sep-25	18-Aug-25	26-Aug-25	-2	0%
OLF.8524-270	Outfall 8524A :- Walls - Rebars Fixing	8	8	13-Sep-25	22-Sep-25	27-Aug-25	04-Sep-25	-2	0%
OLF.8524-290	Outfall 8524A :- Walls - Erect Formworks & Cast	7	7	23-Sep-25	30-Sep-25	05-Sep-25	12-Sep-25	-2	0%
	Outfall 8524A Drainage and Reinstatement								
OLF.8524-310	Outfall 8524A :- Pipe laying DN600 Precast Pipe & Seal Opening	14	14	19-Jul-25	04-Aug-25	02-Jul-25	17-Jul-25	47	0%
OLF.8524-330	Outfall 8524A :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	02-Oct-25	18-Oct-25	13-Sep-25	29-Sep-25	-2	0%
	Outfall 7.73								
	Outfall 7.73 Structure								
OLF.7.73-100	Outfall 7.73 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	25-Aug-25	29-Aug-25	25-Aug-25	29-Aug-25	-31	0%
OLF.7.73-120	Outfall 7.73 :- Mobilize & Setting Out	3	3	21-Aug-25	23-Aug-25	21-Aug-25	23-Aug-25	-31	0%
OLF.7.73-140	Outfall 7.73 :- Remove Existing Grasscrete	1	1	30-Aug-25	30-Aug-25	30-Aug-25	30-Aug-25	-31	0%
OLF.7.73-160	Outfall 7.73 :- Open Cut Excavation to Founding Level	2	2	01-Sep-25	02-Sep-25	01-Sep-25	02-Sep-25	-31	0%
OLF.7.73-180	Outfall 7.73 :- Install Geotextile,rockfill & concrete blinding	2	2	03-Sep-25	04-Sep-25	03-Sep-25	04-Sep-25	-22	0%
OLF.7.73-200	Outfall 7.73 :- Base Slab - Erect Formworks	5	5	05-Sep-25	10-Sep-25	05-Sep-25	10-Sep-25	-22	0%
OLF.7.73-220	Outfall 7.73 :- Base Slab -Rebars Fixing & Cast	14	14	11-Sep-25	26-Sep-25	11-Sep-25	26-Sep-25	-22	0%
OLF.7.73-240	Outfall 7.73 :- Walls -Erect Scaffolding	8	8	27-Sep-25	08-Oct-25	27-Sep-25	08-Oct-25	-22	0%
OLF.7.73-260	Outfall 7.73 :- Walls - Rebars Fixing	8	8	09-Oct-25	17-Oct-25	09-Oct-25	17-Oct-25	-22	0%
OLF.7.73-280	Outfall 7.73 :- Walls - Erect Formworks & Cast	7	7	18-Oct-25	25-Oct-25	18-Oct-25	25-Oct-25	-22	0%
	Outfall 7.63								
	Outfall 7.63 Structure								
OLF.7.73-340	Outfall 7.63 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	04-Sep-25	09-Sep-25	04-Sep-25	09-Sep-25	-31	0%
OLF.7.73-360	Outfall 7.63 :- Mobilize & Setting Out	3	3	01-Sep-25	03-Sep-25	01-Sep-25	03-Sep-25	-31	0%
OLF.7.73-380	Outfall 7.63 :- Remove Existing Grasscrete	1	1	10-Sep-25	10-Sep-25	10-Sep-25	10-Sep-25	-31	0%
OLF.7.73-400	Outfall 7.63 :- Open Cut Excavation to Founding Level	2	2	11-Sep-25	12-Sep-25	11-Sep-25	12-Sep-25	-31	0%
OLF.7.73-420	Outfall 7.63 :- Install Geotextile,rockfill & concrete blinding	2	2	13-Sep-25	15-Sep-25	13-Sep-25	15-Sep-25	-31	0%
OLF.7.73-440	Outfall 7.63 :- Base Slab - Erect Formworks	5	5	16-Sep-25	20-Sep-25	16-Sep-25	20-Sep-25	-31	0%



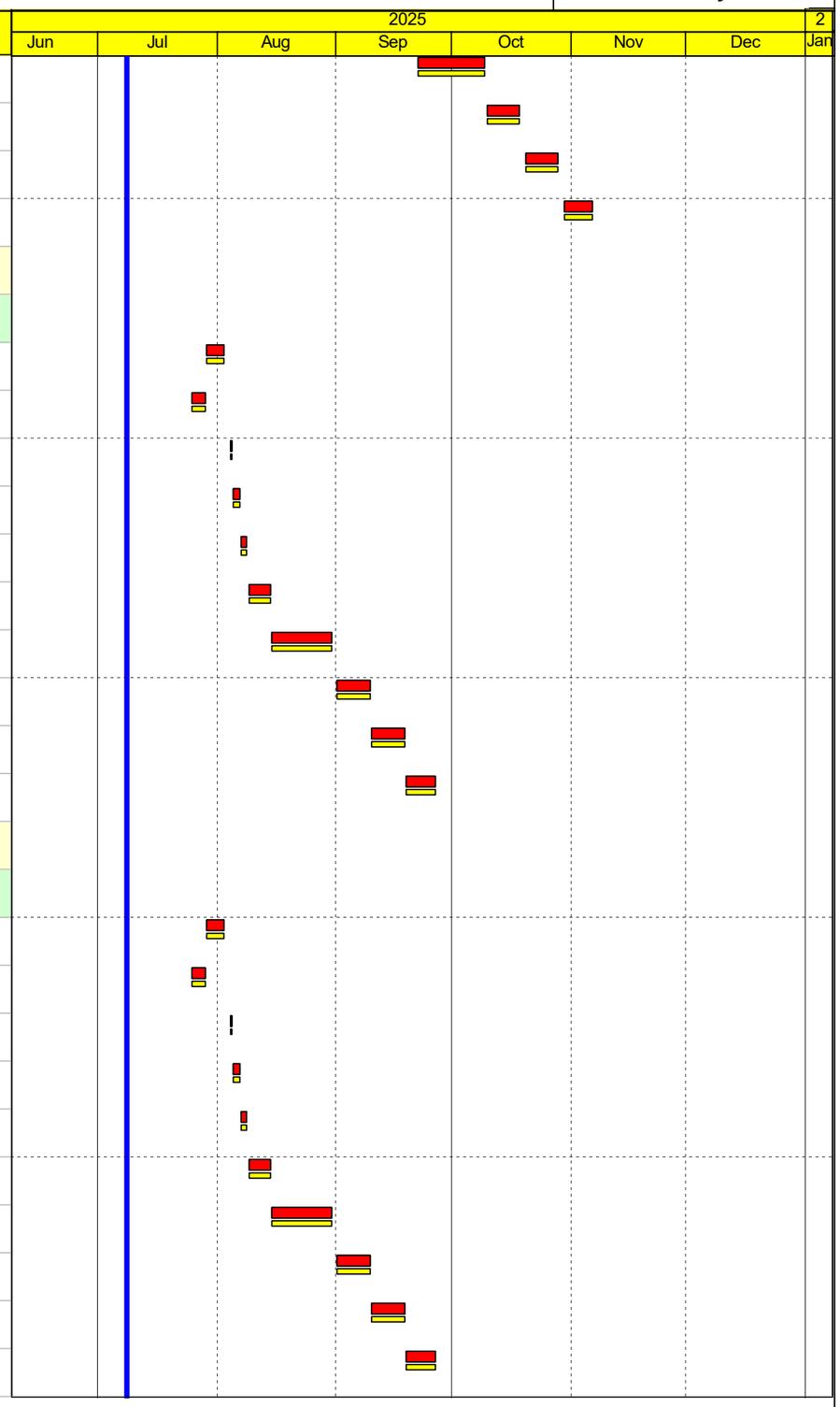
Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
OLF.7.73-460	Outfall 7.63 :- Base Slab -Rebars Fixing & Cast	14	14	22-Sep-25	09-Oct-25	22-Sep-25	09-Oct-25	-31	0%
OLF.7.73-480	Outfall 7.63 :- Walls -Erect Scaffolding	8	8	10-Oct-25	18-Oct-25	10-Oct-25	18-Oct-25	-31	0%
OLF.7.73-500	Outfall 7.63 :- Walls - Rebars Fixing	8	8	20-Oct-25	28-Oct-25	20-Oct-25	28-Oct-25	-31	0%
OLF.7.73-520	Outfall 7.63 :- Walls - Erect Formworks & Cast	7	7	30-Oct-25	06-Nov-25	30-Oct-25	06-Nov-25	-31	0%
Outfall 3002									
Outfall 3002 Structure									
OLF.3002-100	Outfall 3002 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	29-Jul-25	02-Aug-25	29-Jul-25	02-Aug-25	-13	0%
OLF.3002-120	Outfall 3002 :- Mobilize & Setting Out	3	3	25-Jul-25	28-Jul-25	25-Jul-25	28-Jul-25	-13	0%
OLF.3002-140	Outfall 3002 :- Remove Existing Grasscrete	1	1	04-Aug-25	04-Aug-25	04-Aug-25	04-Aug-25	-13	0%
OLF.3002-160	Outfall 3002 :- Open Cut Excavation to Founding Level	2	2	05-Aug-25	06-Aug-25	05-Aug-25	06-Aug-25	-13	0%
OLF.3002-180	Outfall 3002 :- Install Geotextile,rockfill & concrete blinding	2	2	07-Aug-25	08-Aug-25	07-Aug-25	08-Aug-25	-13	0%
OLF.3002-200	Outfall 3002 :- Base Slab - Erect Formworks	5	5	09-Aug-25	14-Aug-25	09-Aug-25	14-Aug-25	-13	0%
OLF.3002-220	Outfall 3002 :- Base Slab -Rebars Fixing & Cast	14	14	15-Aug-25	30-Aug-25	15-Aug-25	30-Aug-25	-13	0%
OLF.3002-240	Outfall 3002 :- Walls -Erect Scaffolding	8	8	01-Sep-25	09-Sep-25	01-Sep-25	09-Sep-25	-13	0%
OLF.3002-260	Outfall 3002 :- Walls - Rebars Fixing	8	8	10-Sep-25	18-Sep-25	10-Sep-25	18-Sep-25	-13	0%
OLF.3002-280	Outfall 3002 :- Walls - Erect Formworks & Cast	7	7	19-Sep-25	26-Sep-25	19-Sep-25	26-Sep-25	-13	0%
Outfall 4001									
Outfall 4001 Structure									
OLF.4001-100	Outfall 4001 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	29-Jul-25	02-Aug-25	29-Jul-25	02-Aug-25	-13	0%
OLF.4001-120	Outfall 4001 :- Mobilize & Setting Out	3	3	25-Jul-25	28-Jul-25	25-Jul-25	28-Jul-25	-13	0%
OLF.4001-140	Outfall 4001 :- Remove Existing Grasscrete	1	1	04-Aug-25	04-Aug-25	04-Aug-25	04-Aug-25	-13	0%
OLF.4001-160	Outfall 4001 :- Open Cut Excavation to Founding Level	2	2	05-Aug-25	06-Aug-25	05-Aug-25	06-Aug-25	-13	0%
OLF.4001-180	Outfall 4001 :- Install Geotextile,rockfill & concrete blinding	2	2	07-Aug-25	08-Aug-25	07-Aug-25	08-Aug-25	-13	0%
OLF.4001-200	Outfall 4001 :- Base Slab - Erect Formworks	5	5	09-Aug-25	14-Aug-25	09-Aug-25	14-Aug-25	-13	0%
OLF.4001-220	Outfall 4001 :- Base Slab -Rebars Fixing & Cast	14	14	15-Aug-25	30-Aug-25	15-Aug-25	30-Aug-25	-13	0%
OLF.4001-240	Outfall 4001 :- Walls -Erect Scaffolding	8	8	01-Sep-25	09-Sep-25	01-Sep-25	09-Sep-25	-13	0%
OLF.4001-260	Outfall 4001 :- Walls - Rebars Fixing	8	8	10-Sep-25	18-Sep-25	10-Sep-25	18-Sep-25	-13	0%
OLF.4001-280	Outfall 4001 :- Walls - Erect Formworks & Cast	7	7	19-Sep-25	26-Sep-25	19-Sep-25	26-Sep-25	-13	0%



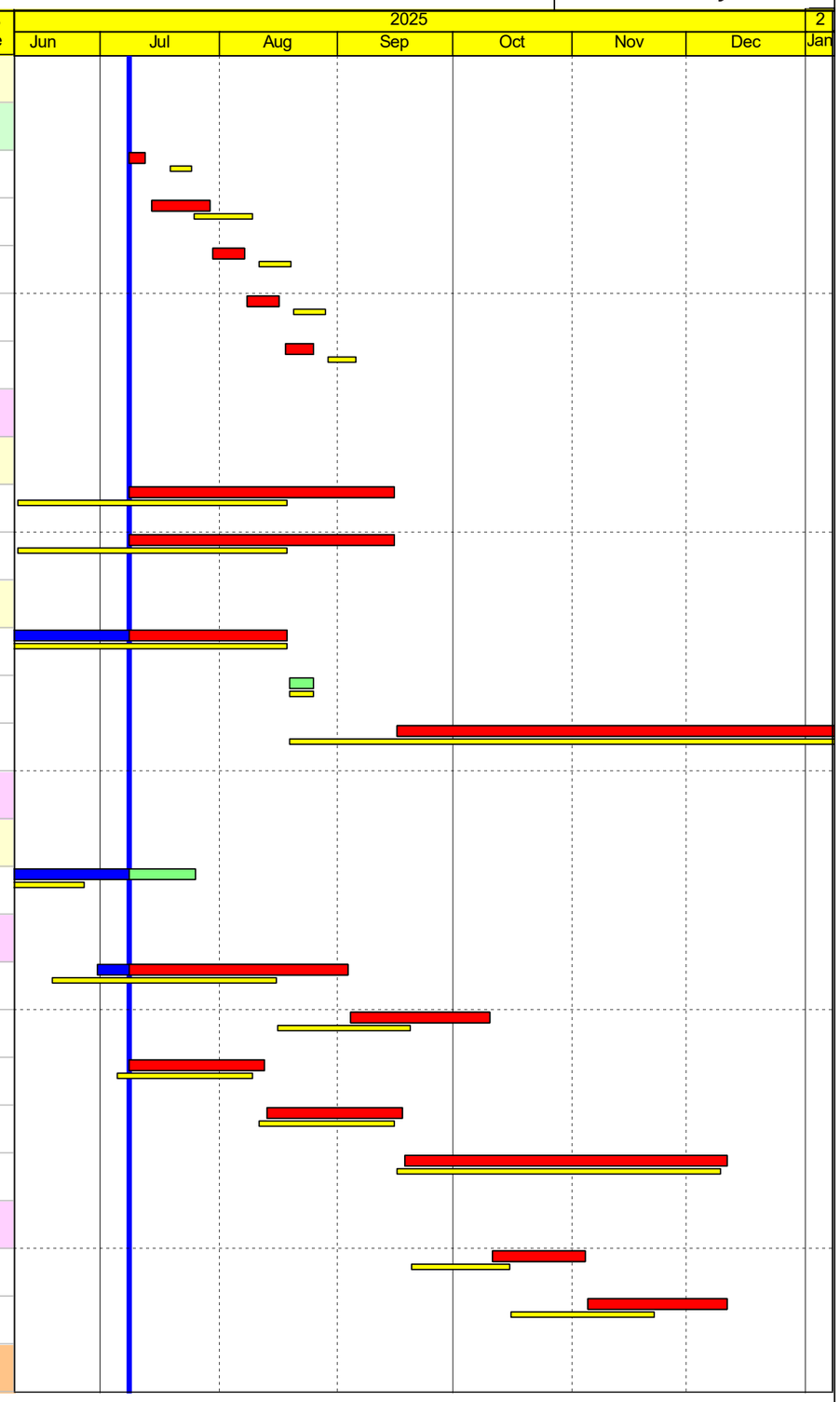
Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
Outfall 5001									
Outfall 5001 Construction									
OLF.5001-200	Outfall 5001 :- Base Slab - Erect Formworks	5	5	08-Jul-25	12-Jul-25	19-Jul-25	24-Jul-25	-64	0%
OLF.5001-220	Outfall 5001 :- Base Slab -Rebars Fixing & Cast	14	14	14-Jul-25	29-Jul-25	25-Jul-25	09-Aug-25	-64	0%
OLF.5001-240	Outfall 5001 :- Walls -Erect Scaffolding	8	8	30-Jul-25	07-Aug-25	11-Aug-25	19-Aug-25	-64	0%
OLF.5001-260	Outfall 5001 :- Walls - Rebars Fixing	8	8	08-Aug-25	16-Aug-25	20-Aug-25	28-Aug-25	-64	0%
OLF.5001-280	Outfall 5001 :- Walls - Erect Formworks & Cast	7	7	18-Aug-25	25-Aug-25	29-Aug-25	05-Sep-25	-64	0%
Bridge Works & Footbridge_Footbridge F4									
Construction of Footbridge F4 Substructure									
C.F4S.1010	FB_F4 (Substruct) :- Footbridge F4-01 (1no. abutment, 60d/abutment,1no. workfront)	60	60	08-Jul-25	15-Sep-25	09-Jun-25	18-Aug-25	-207	0%
C.F4S.1030	FB_F4 (Substruct) :- Footbridge F4-02 (1no. abutment, 60d/abutment,1no. workfront)	60	60	08-Jul-25	15-Sep-25	09-Jun-25	18-Aug-25	-215	0%
Canopy, SMS, Area for CLP, CLP Cable Diversion Works at Footbridge F4 Deck									
C.F4D.1130	FB_F4 (Deck) :- Construction of view platform incl. canopy	60	36	04-Jan-25 A	18-Aug-25	04-Jan-25	18-Aug-25	-63	40%
C.F4D.1150	FB_F4 (Deck) :- Install Structural Monitoring System (SMS) + T&C of SMS	6	6	19-Aug-25	25-Aug-25	19-Aug-25	25-Aug-25	43	0%
C.F4D.1170	FB_F4 (Deck) :- Installation of F4 Canopy railing & lighting	120	120	16-Sep-25	09-Feb-26	19-Aug-25	12-Jan-26	-207	0%
Bridge Works & Footbridge_Retaining Walls at Portion C									
FW14, FW16, FW24, FW27, FW18 (at Portion C)									
C.FW.3070	Port.C_FW :- New feature FW27 L-Shape Retaining wall~70m (near Bridge F)	53	16	10-Aug-24 A	25-Jul-25	10-Aug-24	26-Jun-25	493	69.81%
Bridge Works & Footbridge_U-trough 1- U-trough 4									
C.UT1.1030	U-trough 1 & near by road works & FW18 (after Bored pile G-06)	50	50	30-Jun-25 A	03-Sep-25	18-Jun-25	15-Aug-25	-225	0%
C.UT1.1050	U-trough 1 & near by road works & FW18 (after Bored pile G-06)	30	30	04-Sep-25	10-Oct-25	16-Aug-25	19-Sep-25	-225	0%
C.UT3.1010	U-trough 3 & near by road works (after F4-01 H pile Northbank of Ng Tung River) Stage 2 of 2	31	31	08-Jul-25	12-Aug-25	05-Jul-25	09-Aug-25	-217	0%
C.UT3.1030	U-trough 3 & near by road works (after F4-01 H pile Northbank of Ng Tung River)	31	31	13-Aug-25	17-Sep-25	11-Aug-25	15-Sep-25	-217	0%
C.UT4.1010	U-trough 4 & near by road works (Resequence)(after F4-02 Southbank of Ng Tung River)	70	70	18-Sep-25	11-Dec-25	16-Sep-25	09-Dec-25	-217	0%
Bridge Works & Footbridge_Decking SHST watercourse (after U-trough 1)									
C.UTD.1010	GI & Predrill for SHST water course	20	20	11-Oct-25	04-Nov-25	20-Sep-25	15-Oct-25	-225	0%
C.UTD.1030	RW-01 (16no. socket-H pile, 4d/pile , 2 no. workfronts) (Commencement with Bridge G Foundation)	32	32	05-Nov-25	11-Dec-25	16-Oct-25	22-Nov-25	-225	0%
Construction_Civil Works around Interchange									

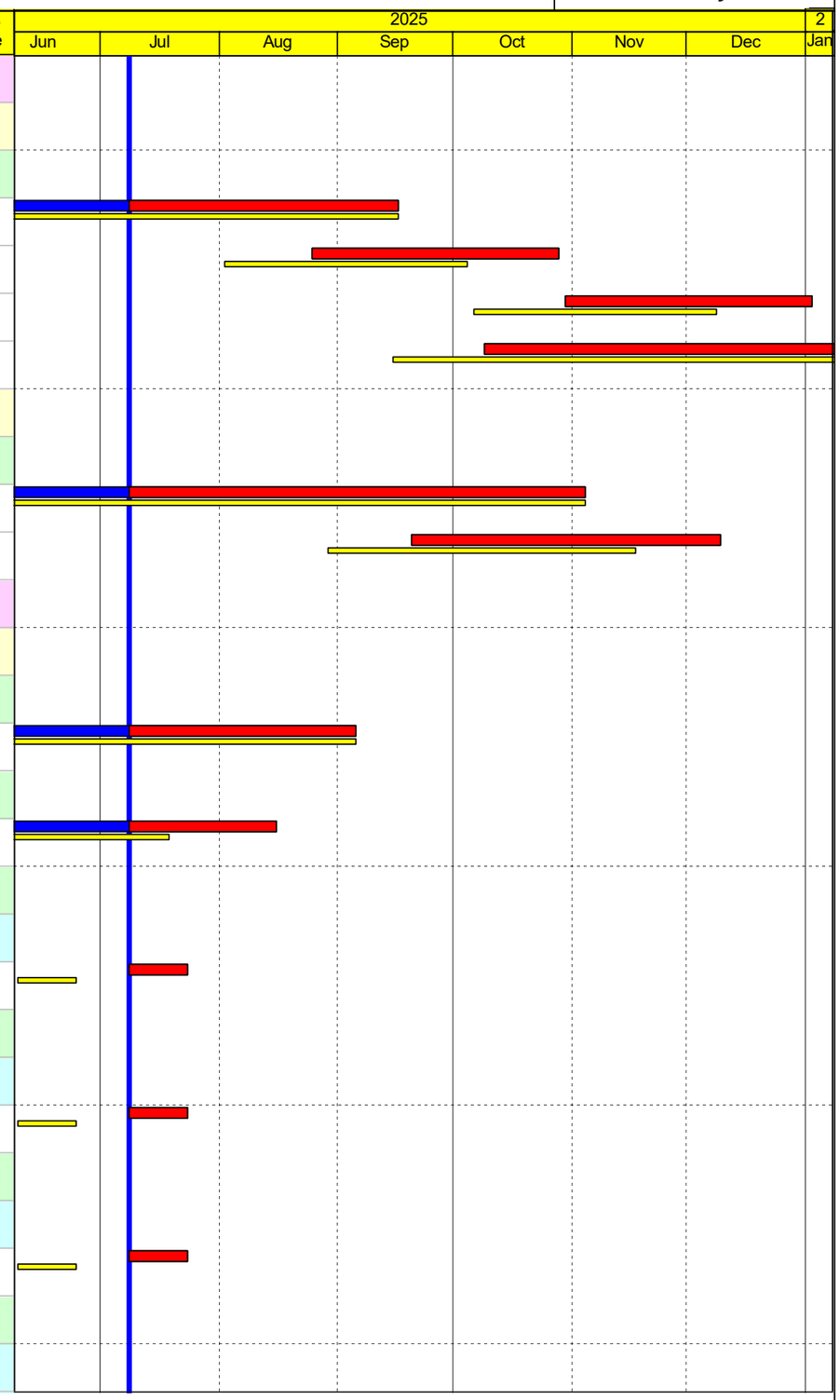


Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

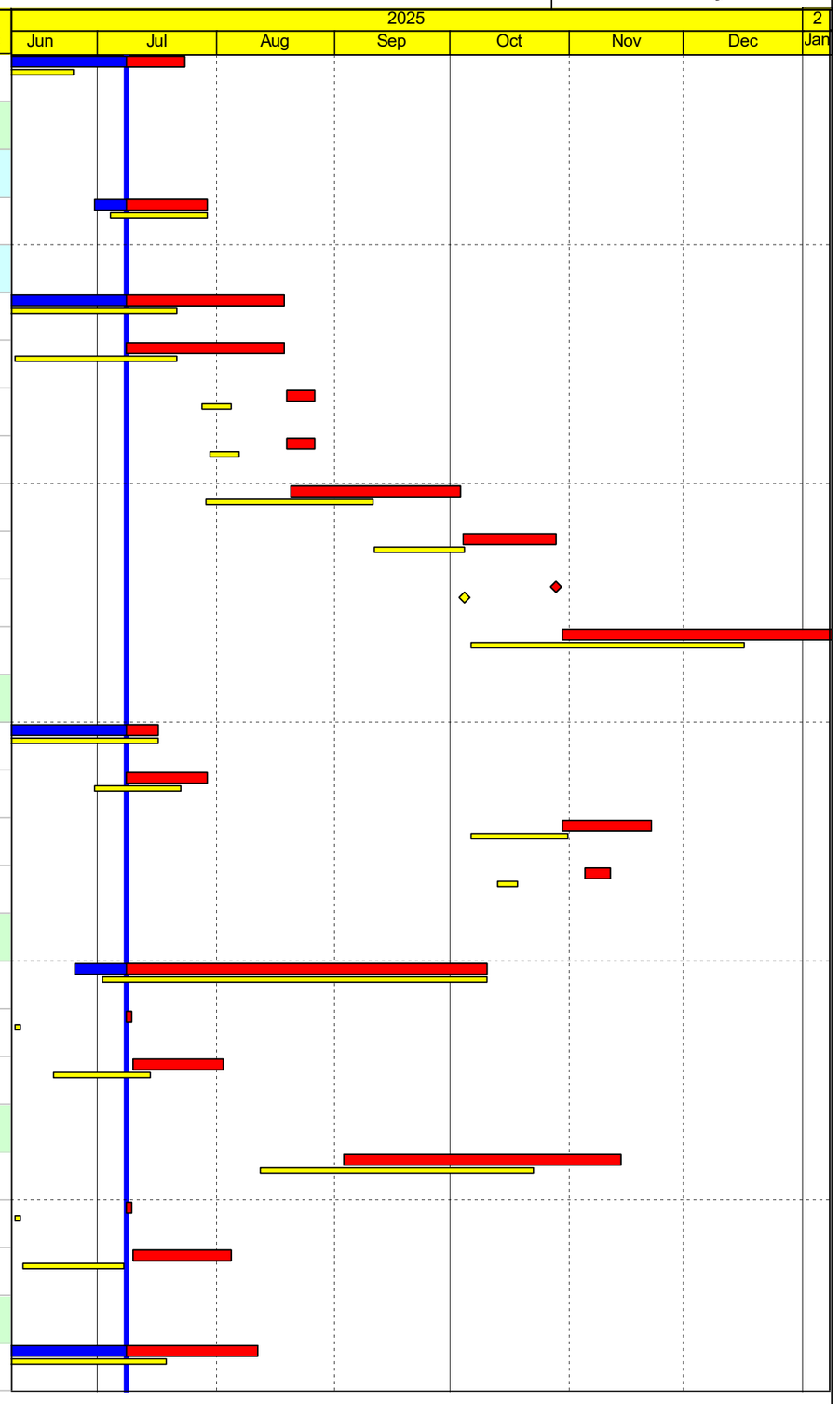
Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025			
Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Interchange Area_TTAs at Proximity of Interchange (Bet. Ma Sik Rd and Sha Tau Kok Road)								
	TTA 2.5 - Sha Tau Kok Road (Southbound)								
	TTA 2.5 - Sha Tau Kok Road (Southbound)								
IC-TA.1350	TTA 2.5 :- Design, submit, processing & approval (TMLG & TTA/RA)	150	61	17-Mar-25 A	16-Sep-25*	17-Mar-25	16-Sep-25	-227	59.33%
IC-TA.1370	TTA 2.5 (S)(N) :- Trench Excavation, Drainage & MH at STK Rd Part 1/2 - SE22 & SR08	54	54	25-Aug-25	28-Oct-25	02-Aug-25	04-Oct-25	-367	0%
IC-TA.1390	TTA 2.5 (S)(N) :- Trench Excavation, Drainage & MH at STK Rd Part 2/2- SE21 & SR07	53	53	30-Oct-25	02-Jan-26	06-Oct-25	08-Dec-25	-367	0%
IC-TA.1430	TTA 2.5 (S)(N) :- MEP Cable ducts, Draw Pits, Pillars, Cabling at STK Rd - SE21 & SR07 AND SE22 & SR08	103	103	09-Oct-25	10-Feb-26	15-Sep-25	19-Jan-26	-359	0%
	TTA 3 - Sha Tau Kok Road (Northbound) & KD3 incl. SR07 & 08								
	TTA 3 - Sha Tau Kok Road (Northbound) & KD3 incl. SR07 & 08								
IC-TA.1490	TTA 3 :- Design, submit, processing & approval (TMLG & TTA/RA)	150	100	08-May-25 A	04-Nov-25*	08-May-25	04-Nov-25	-253	33.33%
IC-TA.1510	TTA 3 :- Remaining UU Works at Sha Tau Kok Road (Northbound & Southbound incl. SR07 & SR08)	66	66	20-Sep-25	09-Dec-25	29-Aug-25	17-Nov-25	-308	0%
	Interchange Area_Footbridge F6 Cum Cycle Track								
	Lift Tower & Footbridge F6 (Portion J)								
	Lift Tower & Footbridge F6 (Portion J) - Design and Procurement								
IC-F6.1810	Lift Tower/F6 (Port.J) :- Procurement of lighting items & E&M items	144	52	08-Jan-25 A	05-Sep-25	08-Jan-25	05-Sep-25	-337	63.89%
	Lift Tower & Footbridge F6 (Portion J) - Steel Structure Fabrication and Delivery								
IC-F6.1590	Lift Tower/F6 (Port.J) :- Fabrication & delivery of steel element & canopy for Footbridge F6	99	34	29-Jun-24 A	15-Aug-25	29-Jun-24	18-Jul-25	-349	65.66%
	Lift Tower & Footbridge F6 (Portion J) - Part A (Cable D)								
	Part A Pier/Column								
IC-F6.1470	Construction of F6 Part A C01 Bearing (for Steel Deck A)	14	14	08-Jul-25	23-Jul-25	09-Jun-25	24-Jun-25	-315	0%
	Lift Tower & Footbridge F6 (Portion J) - Part B (Some part After Cable D)								
	Part B Pier/Column								
IC-F6.2270	Construction of F6 Part B P07 Bearing	14	14	08-Jul-25	23-Jul-25	09-Jun-25	24-Jun-25	-315	0%
	Lift Tower & Footbridge F6 (Portion J) - Part C								
	Part C Pier/Column								
IC-F6.1270	Construction of F6 Part C C04 Bearing	14	14	08-Jul-25	23-Jul-25	09-Jun-25	24-Jun-25	-345	0%
	Lift Tower & Footbridge F6 (Portion J) - Part D								
	Part D Pier/Columns (P06, C04, S06, S07)								



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
IC-F6.1230	Construction of F6 Part D C05 Bearing (Steel Deck D)	14	14	07-Feb-25 A	23-Jul-25	07-Feb-25	24-Jun-25	-345	0%
Lift Tower & Footbridge F6 (Portion J) - Footbridge F6 S960 Steel Elevated Deck Structure									
Circular Steel Deck									
IC-F6.3070	FB F6 :- Circular Steel Deck - Strand Jacking & Complete Diaphragm	22	19	30-Jun-25 A	29-Jul-25	04-Jul-25	29-Jul-25	-348	13.64%
F6 Steel Bridge Deck									
IC-F6.3110	FB F6 :- Steel Deck Span - On Site Assembly, Welding Works, Setting Out (Part A & D)	36	36	11-Apr-25 A	18-Aug-25	11-Apr-25	21-Jul-25	-367	0%
IC-F6.3130	FB F6 :- Steel Deck Span - On Site Assembly, Welding Works, Setting Out (Part C & B)	36	36	08-Jul-25	18-Aug-25	09-Jun-25	21-Jul-25	-337	0%
IC-F6.3150	FB F6 :- Steel Deck Span - Lifting Bridge Deck Span by Crane & place on Top of Falsework & Jacks on Piers (Part A & D)	7	7	19-Aug-25	26-Aug-25	28-Jul-25	04-Aug-25	-367	0%
IC-F6.3170	FB F6 :- Steel Deck Span - Lifting Bridge Deck Span by Crane & place on Top of Falsework & Jacks on Piers (Part C & B)	7	7	19-Aug-25	26-Aug-25	30-Jul-25	06-Aug-25	-337	0%
IC-F6.3190	FB F6 :- Steel Deck Span - Welding & Monolithic Diaphragm Works	38	38	20-Aug-25	03-Oct-25	29-Jul-25	10-Sep-25	-367	0%
IC-F6.3210	FB F6 :- Steel Deck Span - Remove Temp. Work (Part A, B, C, D)	20	20	04-Oct-25	28-Oct-25	11-Sep-25	04-Oct-25	-367	0%
IC-F6.3230	FB F6 :- Completion of Elevated F6 Steel Bridge Decks	0	0		28-Oct-25		04-Oct-25	-367	0%
IC-F6.3250	FB F6 :- Install Structural Monitoring System (SMS) + T&C (by temp. power) of SMS incl. Power supply installation	60	60	30-Oct-25	10-Jan-26	06-Oct-25	16-Dec-25	-70	0%
Lift Tower & Footbridge F6 (Portion J) - Lift A Structure (MIC)									
IC-F6.3290	Lift A 1 & A 2 (MiC) :- RC Staircase A	60	8	20-Dec-24 A	16-Jul-25	20-Dec-24	16-Jul-25	-229	86.67%
IC-F6.3330	Lift A 1 & A 2 (MiC) :- MIC Lifts Installation incl. E&M Works	19	19	08-Jul-25	29-Jul-25	30-Jun-25	22-Jul-25	-235	0%
IC-F6.3350	Lift A 1 & A 2 (MiC) :- Cast In Situ Concrete Deck near Col. C01 Bet. S960 Structure & Lift A Shaft	21	21	30-Oct-25	22-Nov-25	06-Oct-25	31-Oct-25	-311	0%
IC-F6.3370	Lift A 1 & A 2 (MiC) :- Electrical Works for Power Energization of lift power supply	6	6	05-Nov-25	11-Nov-25	13-Oct-25	18-Oct-25	-344	0%
Lift Tower & Footbridge F6 (Portion J) - Lift B Structure (MIC)									
IC-F6.3470	Lift B 1 & B 2 (MiC) :- RC Staircase B & In Situ Concrete Deck Bet. S960 Structure & Lift B Shaft	85	80	25-Jun-25 A	10-Oct-25	02-Jul-25	10-Oct-25	-271	5.88%
IC-F6.3490	Lift B 1 & B 2 (MiC) :- Lift Delivery & Erection	2	2	08-Jul-25	09-Jul-25*	09-Jun-25	10-Jun-25	-214	0%
IC-F6.3510	Lift B 1 & B 2 (MiC) :- MIC Installation incl. E&M Works	21	21	10-Jul-25	02-Aug-25	19-Jun-25	14-Jul-25	-214	0%
Lift Tower & Footbridge F6 (Portion J) - Lift C Structure (MIC) after TTA 2.5 Southbound									
IC-F6.3690	Lift C 1 & C 2 (MiC) :- Remaining RC Staircase & In Situ Concrete Deck Bet. S960 Structure & Lift C Shaft	60	60	03-Sep-25	14-Nov-25	12-Aug-25	22-Oct-25	-301	0%
IC-F6.3710	Lift C 1 & C 2 (MiC) :- Lift Delivery & Erection	2	2	08-Jul-25	09-Jul-25*	09-Jun-25	10-Jun-25	-221	0%
IC-F6.3730	Lift C 1 & C 2 (MiC) :- MIC Installation incl. E&M Works	22	22	10-Jul-25	04-Aug-25	11-Jun-25	07-Jul-25	-221	0%
Lift Tower & Footbridge F6 (Portion J) - Lift D Structure (MIC) after TTA 2.5 Southbound									
IC-F6.3830	Lift D 1 & D 2 (MiC) :- RC Staircase D	55	30	20-Dec-24 A	11-Aug-25	20-Dec-24	18-Jul-25	-274	45.45%



Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Project ID: RP11.MU06-2025

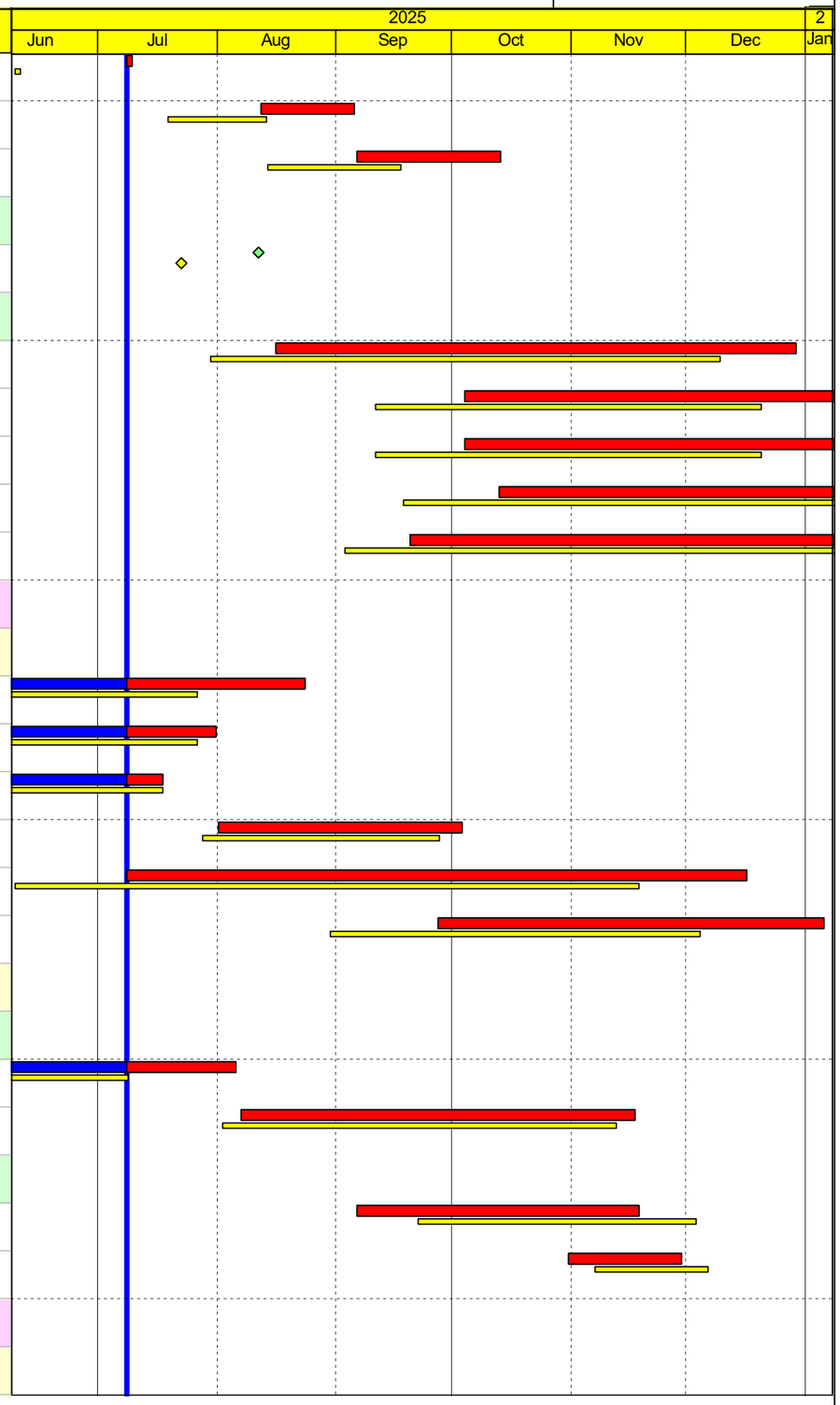
Three Months Rolling Programme (08 Jul 2025 to 31 October 2025)

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

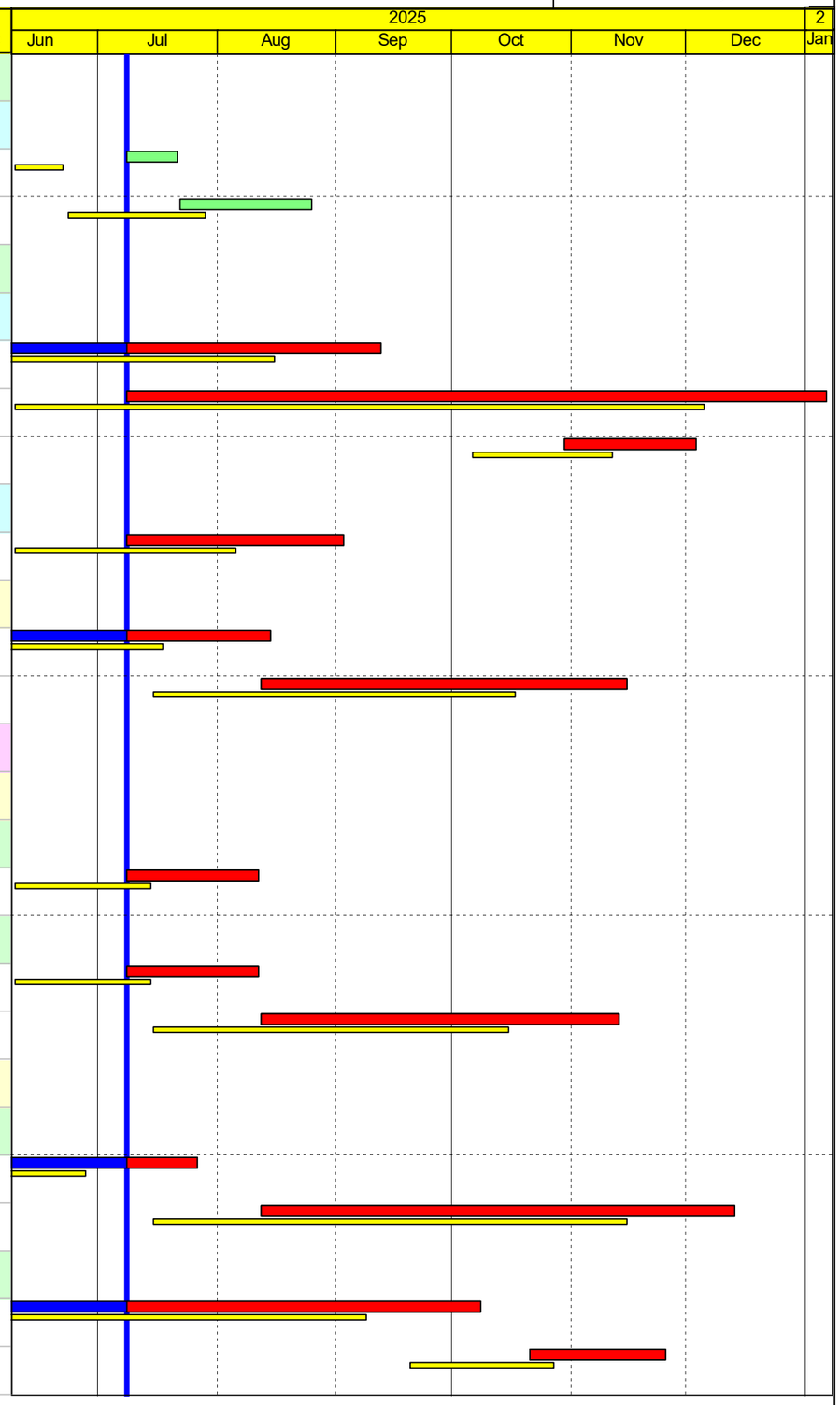
Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

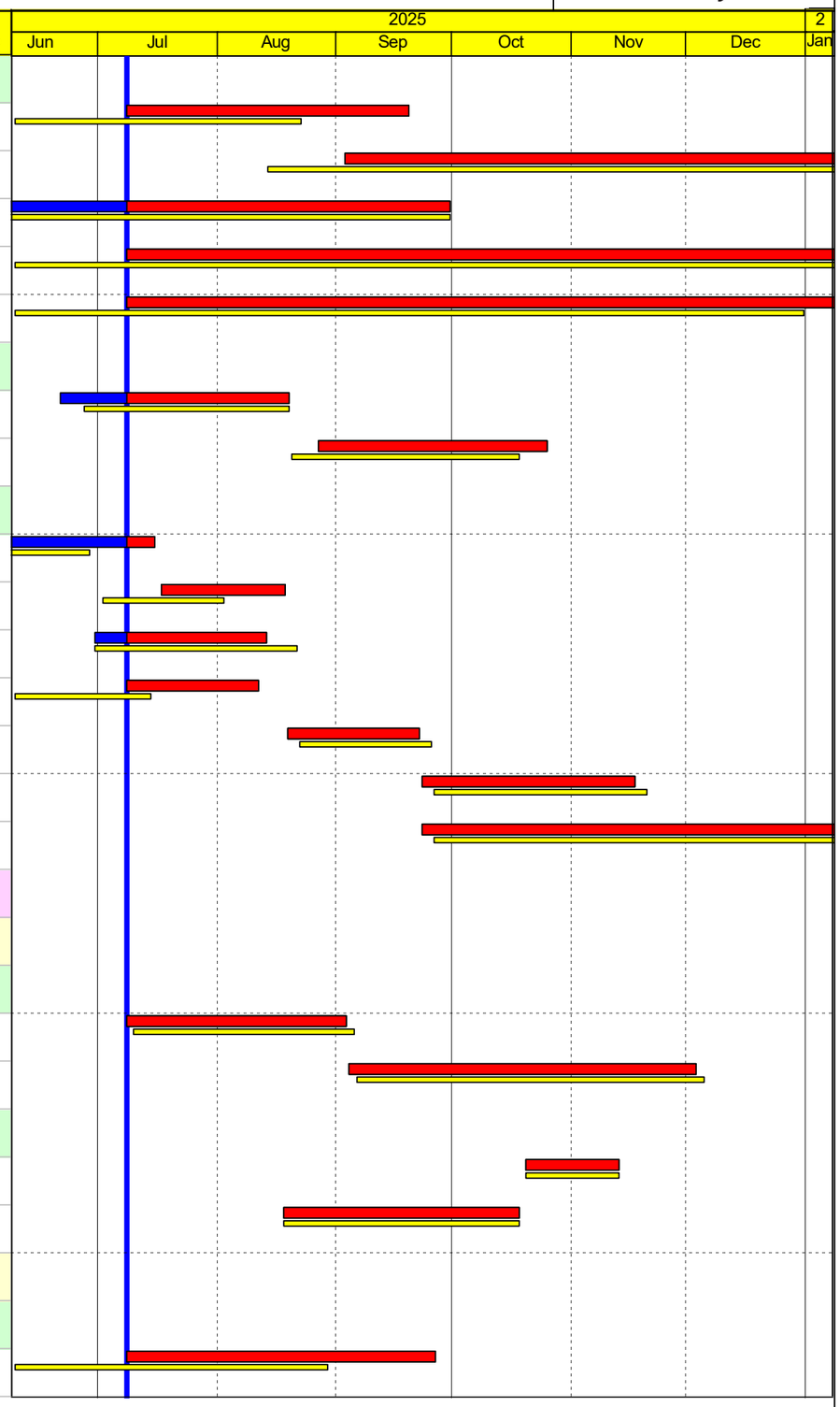
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
IC-F6.3870	Lift D 1 & D 2 (MiC) :- Lifts Delivery & Erection on site	2	2	08-Jul-25*	09-Jul-25	09-Jun-25	10-Jun-25	-246	0%
IC-F6.3890	Lift D 1 & D 2 (MiC) :- MiC Installation incl. E&M Works	22	22	12-Aug-25	05-Sep-25	19-Jul-25	13-Aug-25	-274	0%
IC-F6.3910	Lift D 1 & D 2 (MiC) :- Cast In Situ Concrete Deck Bet. S960 Structure & Lift D Shaft	30	30	06-Sep-25	13-Oct-25	14-Aug-25	17-Sep-25	-274	0%
Lift Tower & Footbridge F6 (Portion J) - Footbridge F6 Canopy (remaining works - S11)									
IC-F6.4030	Achieved S11 (All remaining works in Footbridge F6)	0	0		11-Aug-25		22-Jul-25	66	0%
Lift Tower & Footbridge F6 (Portion J) - EM/BS/ABWF of Footbridge F6									
IC-F6.5010	FB F6 :- Installation of post & canopy (for Circular Deck)	111	111	16-Aug-25	29-Dec-25	30-Jul-25	09-Dec-25	-349	0%
IC-F6.5030	FB F6 :- Installation of post & canopy (for Part A & B above future road)	84	84	04-Oct-25	15-Jan-26	11-Sep-25	20-Dec-25	-312	0%
IC-F6.5050	FB F6 :- Installation of post & canopy (for Part C & D above future road)	84	84	04-Oct-25	15-Jan-26	11-Sep-25	20-Dec-25	-366	0%
IC-F6.5070	FB F6 :- Installation of lighting & other E&M items (Cir. Deck + Part A, B, C & D on Footbridge F6- for pedestrian) >>>	119	119	13-Oct-25	07-Mar-26	18-Sep-25	10-Feb-26	-366	0%
IC-F6.5090	FB F6 :- ABWF Works (Cir. Deck + Part A, B, C & D on Footbridge F6- for pedestrian) >>>	153	153	20-Sep-25	27-Mar-26	03-Sep-25	10-Mar-26	-349	0%
Interchange Area_Depressed Road A									
Depressed Rd A Bay 1-12									
IC-DRA.1250	Dep. Rd A :- Noise barrier NB24 (after Dep. Rd A) (~53 nos. post) Fabrication & Delivery	85	41	14-Feb-25 A	23-Aug-25	14-Feb-25	26-Jul-25	-160	51.76%
IC-DRA.1270	Dep. Rd A :- Central Median & profile barrier (A1 to A12)	78	21	28-Nov-24 A	31-Jul-25	28-Nov-24	26-Jul-25	-191	73.08%
IC-DRA.1290	Dep. Rd A :- Backfilling at Bays A1 to A12 (partial concurrent with UUs Works under ID. UTRA-3001-1) 1/2	54	9	08-Feb-25 A	17-Jul-25	08-Feb-25	17-Jul-25	-179	83.33%
IC-DRA.1310	Dep. Rd A :- Backfilling at Bays A1 to A12 (partial concurrent with UUs Works under ID. UTRA-3001-1) 2/2	54	54	01-Aug-25	03-Oct-25	28-Jul-25	27-Sep-25	-191	0%
IC-DRA.1330	Dep. Rd A :- Installation of Noise barrier NB 24 (after Dep. Rd A) (~53 nos. post) after 1st batch delivery	136	136	08-Jul-25*	16-Dec-25	09-Jun-25	18-Nov-25	-160	0%
IC-DRA.1350	Dep. Rd A :- Installation of Noise barrier NB24 BS. & E&M works	80	80	27-Sep-25	05-Jan-26	30-Aug-25	04-Dec-25	-160	0%
Road Works									
Connection road btw Bridge A3 and Depressed Road A									
IC-DRA/A3.10	RD (Dep. Rd A to A3) :- UUs at Road section bet. Depressed Rd A & Bridge A3 (Northbound-near C7)	100	25	08-Feb-25 A	05-Aug-25	08-Feb-25	08-Jul-25	-190	75%
IC-DRA/A3.10	RD (Dep. Rd A to A3) :- UUs at Road section bet. Depressed Rd A & Bridge A3-06M (Southbound-near Ma Wut river)	85	85	07-Aug-25	17-Nov-25	02-Aug-25	12-Nov-25	-191	0%
Slip Roads (SR05 & SR06) At both side of Depressed Road A									
IC-SR5.1010	SR05 :- Backfilling at Slip Road section in front of Retaining Wall FW8 (Northbound-near C7)	60	60	06-Sep-25	18-Nov-25	22-Sep-25	03-Dec-25	-142	0%
IC-SR6.1050	SR06 :- Backfilling at Slip Road section in front of Retaining Wall FW7 (Southbound-near Ma Wut River)	26	26	31-Oct-25	29-Nov-25	07-Nov-25	06-Dec-25	-152	0%
Interchange Area_Underpass at Portions H, J, K									
Underpass - Structural Works									



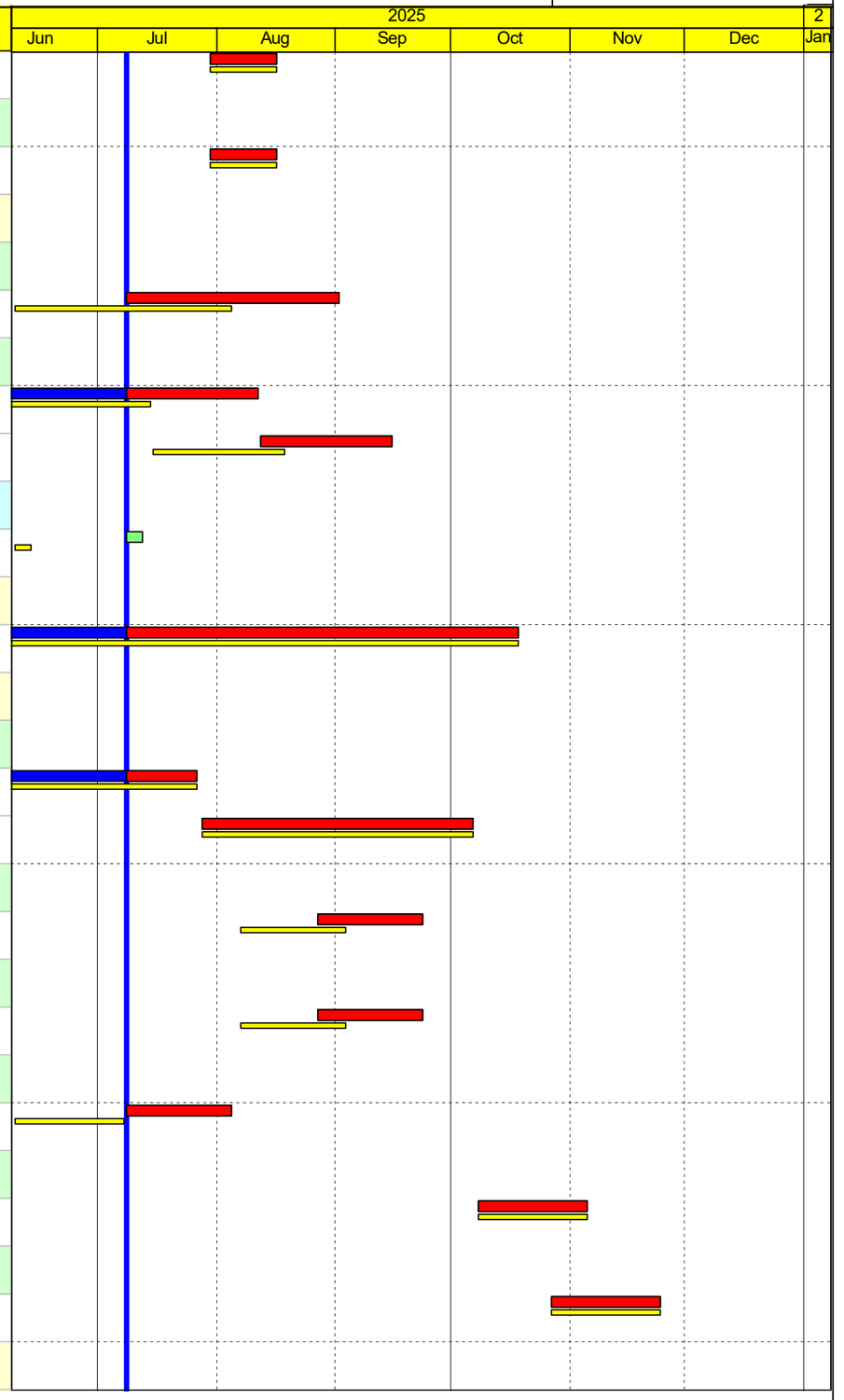
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Underpass Bays C1 to C8 at Portion H								
	Underpass - Waterproofing and Backfilling								
IC-UP.1270	Underpass :- Waterproofing to Structure Works for Bay C1 to C4	12	12	08-Jul-25	21-Jul-25	09-Jun-25	21-Jun-25	28	0%
IC-UP.1290	Underpass :- Backfilling to Structure Works for Bay C1 to C4	30	30	22-Jul-25	25-Aug-25	23-Jun-25	28-Jul-25	28	0%
	Underpass - Bays C9 - C15 at Portions H, J and K								
	Underpass C9-C11 (Road & Drainage Works)								
IC-UP.3050	Underpass :- Fabrication & Delivery of Directional Signs	120	58	26-Sep-24 A	12-Sep-25	26-Sep-24	15-Aug-25	-277	51.67%
IC-UP.3090	Underpass :- Road & Drainage Works above Bay C9 to C11	151	151	08-Jul-25	06-Jan-26	09-Jun-25	05-Dec-25	-372	0%
IC-UP.3110	Underpass :- Construct Directional Signs (DS 13, DS14) above Bay C9 to C11 (After Footbridge F6 completion)	30	30	30-Oct-25	03-Dec-25	06-Oct-25	11-Nov-25	-342	0%
	Underpass C12a & C12b (former C11-C13) (Road & Drainage Works)								
IC-UP.3150	Underpass :- Road & Drainage Works on STK Rd southbound above Underpass Bay C12a & C12b	49	49	08-Jul-25	02-Sep-25	09-Jun-25	05-Aug-25	-278	0%
	BS, E&M Works and Remaining Road Works in Underpass and Depressed Roads								
IC-UP.3230	Underpass/Dep. Rd :- Lighting, E&M & BS. incl. TDS/TCSS (For All Areas) , E&M works delivery	80	33	08-Apr-25 A	14-Aug-25	08-Apr-25	17-Jul-25	-220	58.75%
IC-UP.3250	Underpass/Dep. Rd :- Remaining Works at Underpass/ Depressed Road (E&M, signage, road & drainage works)- Stage 1	80	80	12-Aug-25	15-Nov-25	15-Jul-25	17-Oct-25	-250	0%
	Interchange Area_Depressed Road B								
	Depressed Road B_B4-B10								
	DPRB Bay 9								
IC-DRB.1570	Dep. Rd B :- Interface Road in DPRB between Contract 4 (C4) & Contract 5 (C5)	30	30	08-Jul-25	11-Aug-25	09-Jun-25	14-Jul-25	-276	0%
	Remaining Works After Structure completion								
IC-DRB.1630	Dep. Rd B :- Portion M - Backfilling for the connection road between U-trough B & abutment (by C5) KD3	30	30	08-Jul-25	11-Aug-25	09-Jun-25	14-Jul-25	-188	0%
IC-DRB.1650	Dep. Rd B :- Portion M - Parapet & median barrier at connection road between U trough B & Abutment	78	78	12-Aug-25	13-Nov-25	15-Jul-25	15-Oct-25	-188	0%
	Remaining Works at Depressed road and Slip Road at both side of Depressed Road B								
	NB33								
IC-NB.1170	Dep. Rd B/Slip Rd :- Fabrication of Noise barrier NB33a/b (~14 nos. post & 4 bay footing)	48	17	01-Mar-25 A	26-Jul-25	01-Mar-25	27-Jun-25	-281	64.58%
IC-NB.1190	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB33a/b (~14 nos. post & 4 bay footing)	104	104	12-Aug-25	13-Dec-25	15-Jul-25	15-Nov-25	-294	0%
	NB34								
IC-NB.1010	Dep. Rd B/Slip Rd :- Fabrication/Delivery of Noise barrier NB34 (~25 nos. post)	78	78	08-Apr-25 A	08-Oct-25	08-Apr-25	08-Sep-25	-275	0%
IC-NB.1030	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB34 Post & As-built rec. for Panel fab. (~25 nos. post)@1.8 Post/d??	30	30	21-Oct-25	25-Nov-25	20-Sep-25	27-Oct-25	-363	0%



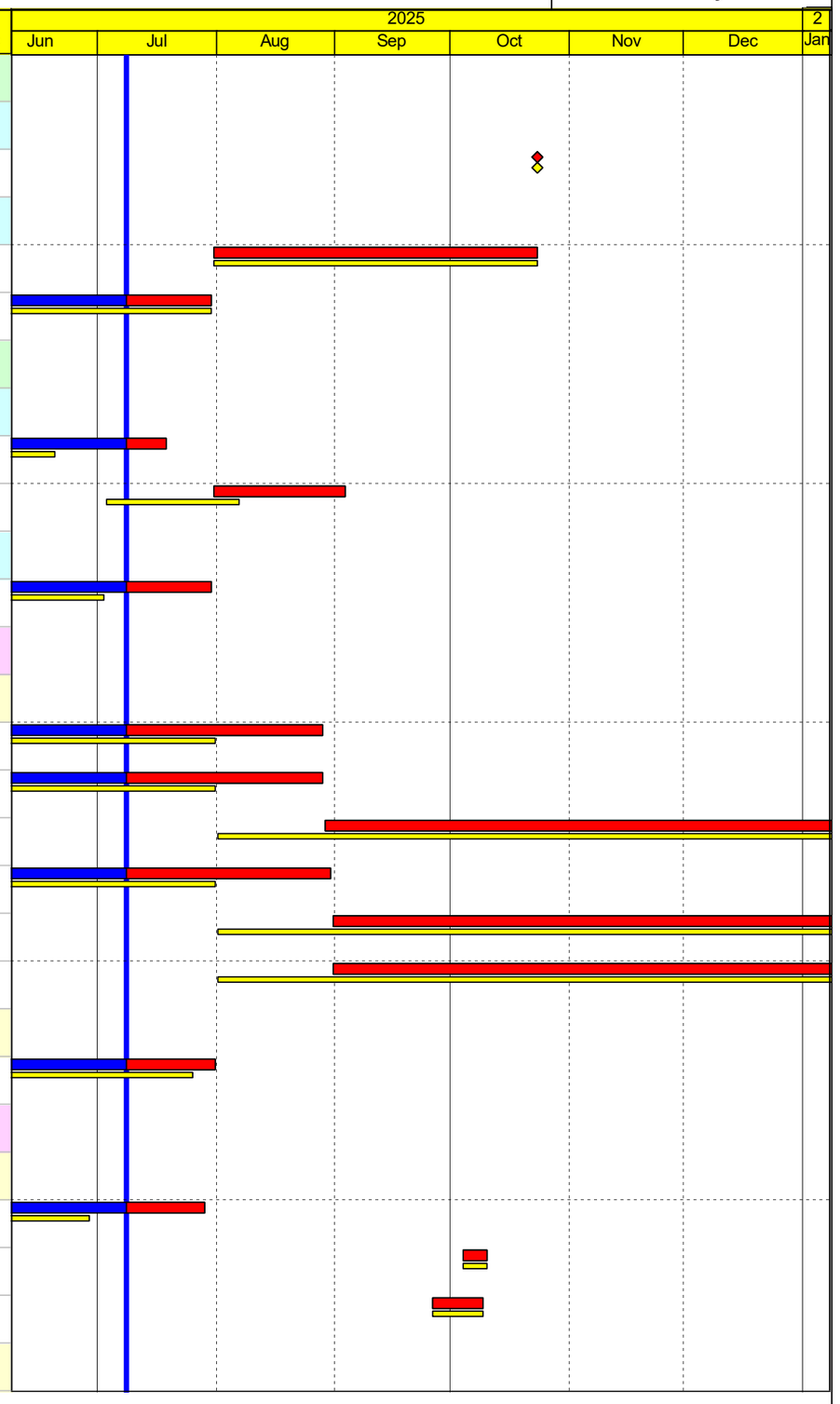
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	NB35 & SE11								
IC-NB.1110	Dep. Rd B/Slip Rd :- Fabrication & Delivery of Noise barrier NB35 (~20 nos post)	64	64	08-Jul-25*	19-Sep-25	09-Jun-25	22-Aug-25	-288	0%
IC-NB.1130	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB35 (~20 nos post)	128	128	03-Sep-25	05-Feb-26	14-Aug-25	16-Jan-26	-337	0%
IC-NB.1230	Dep. Rd B/Slip Rd :- Fabrication/del. of Noise barrier SE11+NB35 (after Dep. Rd B) (100m, 105 posts)	97	73	08-Apr-25 A	30-Sep-25	08-Apr-25	30-Sep-25	-331	24.74%
IC-NB.1250	Dep. Rd B/Slip Rd :- Installation of Noise barrier SE11+NB35 (after Dep. Rd B) (~34 nos. x 3 post & 34 nos x 2 beam)	234	234	08-Jul-25	21-Apr-26	09-Jun-25	19-Mar-26	-149	0%
IC-NB.1270	Dep. Rd B/Slip Rd :- Installation of Noise barrier SE11+NB35 (after Dep. Rd B) (Partial for Slip Road SR07)	171	171	08-Jul-25	29-Jan-26	09-Jun-25	31-Dec-25	-331	0%
	Slip Road SR08 from Interchange to Fanling Highway								
IC-SR8.1090	Slip Rd SR08 :- Watermain Pipelaying, Fire Hydrant (FH), Washout Chamber + Test at SR08	45	37	21-Jun-25 A	19-Aug-25	27-Jun-25	19-Aug-25	-312	17.78%
IC-SR8.1110	Slip Rd SR08 :- Backfill to road formation, Road Drain/Gullies, Road Lighting	50	50	27-Aug-25	25-Oct-25	20-Aug-25	18-Oct-25	-289	0%
	Slip Road SR07 from Fanling Highway to Interchange								
IC-SR7.1010	Slip Rd SR07 :- FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas & other UUs)-Bay 1-5 & 8-10	65	7	27-Dec-24 A	15-Jul-25	27-Dec-24	28-Jun-25	-369	89.23%
IC-SR7.1030	Slip Rd SR07 :- FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas & other UUs)-Bay 6 & 7	28	28	17-Jul-25	18-Aug-25	02-Jul-25	02-Aug-25	-369	0%
IC-SR7.1050	Slip Rd SR07 :- Footing of noise barrier NB34 (6 bays, 15d/bay, 2 team)	45	32	30-Jun-25 A	13-Aug-25	30-Jun-25	21-Aug-25	-365	28.89%
IC-SR7.1090	Slip Rd SR07 :- Backfilling to footing of NB33a/b	30	30	08-Jul-25	11-Aug-25	09-Jun-25	14-Jul-25	-294	0%
IC-SR7.1110	Slip Rd SR07 :- Backfilling works to Retaining Wall FW10 & NB34	30	30	19-Aug-25	22-Sep-25	22-Aug-25	25-Sep-25	-369	0%
IC-SR7.1130	Slip Rd SR07 :- Watermain works at slip road in front of Retaining Wall FW10 & NB34 & road & drainage works	45	45	23-Sep-25	17-Nov-25	26-Sep-25	20-Nov-25	-369	0%
IC-SR7.1210	Slip Rd SR07 :- Construct Directional Signs (DS 10, ADS 10) after FW10 & NB34	137	137	23-Sep-25	11-Mar-26	26-Sep-25	14-Mar-26	-369	0%
	Interchange Area_Underground Utilities (UUs) Works								
	Drainage Works								
	South of Sha Tau Kok Road (On Kui Street South)								
IC-STK.1030	STK Rd (S) :- Drainage works (manhole + connection) within footprint of FW32 (Bay 2) & FW33 (Bay 5)	50	50	08-Jul-25	03-Sep-25	10-Jul-25	05-Sep-25	-140	0%
IC-STK.1050	STK Rd (S) :- Retaining Wall FW32 & 33 (Remaining bays)	75	75	04-Sep-25	03-Dec-25	06-Sep-25	05-Dec-25	-140	0%
	Along Sha Tau Kok Road								
IC-STK.1070	STK Rd :- UU Works (Gas mains_3 nos. near FW45)- Southbound Sha Tau Kok Road	21	21	20-Oct-25*	13-Nov-25	20-Oct-25	13-Nov-25	-337	0%
IC-STK.1090	STK Rd :- Backfilling works (Sha Tau Kok Road)	52	52	18-Aug-25	18-Oct-25	18-Aug-25	18-Oct-25	-337	0%
	Rising Main								
	From Sewerage Pumping Station to downstream via Ma Sik Road and On Kui Street								
IC-RM.1050	Rising Mains on Ma Sik Rd (Part 3 i - within Port.N- in/out sewage pumping station)	70	70	08-Jul-25	26-Sep-25	09-Jun-25	29-Aug-25	-300	0%



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
IC-RM.1090	Rising Mains on Ma Sik Rd (Part 3 ii - within Port.N- in/out sewage pumping station) after F6 Cir. Steel Deck in place	16	16	30-Jul-25	16-Aug-25	30-Jul-25	16-Aug-25	-265	0%
	From Sha Tau Kok Road to downstream via Ma Sik Road								
IC-RM.1170	Rising Mains on Ma Sik Rd (From STK Rd to Ma Sik Rd down stream near C7) (Above Underpass Bay C9 & C10) after F6 Cir.	16	16	30-Jul-25	16-Aug-25	30-Jul-25	16-Aug-25	-337	0%
	Sewerage Works								
	North of Sha Tau Kok Road								
IC-UU.1030	STK Rd (N) :- Remaining sewerage at Ma Sik rd (Part 2) Ma Sik Road (from C7 to SPS) North of STK Rd >>>	48	48	08-Jul-25	01-Sep-25	09-Jun-25	04-Aug-25	-278	0%
	South of Sha Tau Kok Road								
IC-UU.1270	STK Rd (S) :- Sewerage pipe between FMH 5.10 & FMH1004470 (incl. TTA & excavation) >>>	30	30	09-Dec-24 A	11-Aug-25	09-Dec-24	14-Jul-25	-291	0%
IC-UU.1430	STK Rd (S) :- Testing of new pipe & demolition of existing sewerage works (Portion K, Portion K1 & STK Rd) >>>	30	30	12-Aug-25	15-Sep-25	15-Jul-25	18-Aug-25	-291	0%
	Temporary diversion (for ELWS of Underpass C9-C13)								
IC-UP.5030	Underpass :- Temporary sewerage diversion from FMH5.05 to new manhole & existing manhole - Changeover	4	4	08-Jul-25	12-Jul-25	09-Jun-25	13-Jun-25	505	0%
	Waterworks								
IC-WM.1150	Watermain (from STK Rd to connection point at On Kui ST) (Part 3) - 600DI & final connection >>>	15	87	09-May-24 A	18-Oct-25	09-May-24	18-Oct-25	-253	0%
	Irrigation Works								
	Irrigation Works_Statutory								
C.IR.1190	Subletting for Irrigation works	90	17	08-Feb-25 A	26-Jul-25	08-Feb-25	26-Jul-25	-16	81.11%
C.IR.1210	Irrigation Material Submission & approval	60	60	28-Jul-25	06-Oct-25	28-Jul-25	06-Oct-25	-16	0%
	Irrigation Works_South of Sha Tau Kok Road near Footbridge F6 Part B								
C.IR.1030	Install Irrigation system near Link Bridge B	24	24	27-Aug-25	23-Sep-25	07-Aug-25	03-Sep-25	-233	0%
	Irrigation Works_Near Footbridge F6 Part A and across Slip Road SR08								
C.IR.1070	Install Irrigation system near Part A & Slip Road SR08	24	24	27-Aug-25	23-Sep-25	07-Aug-25	03-Sep-25	-263	0%
	Irrigation Works_Above Underpass								
C.IR.1090	Install Irrigation system atfer Underpass Bay C9 to C11 backfilling	24	24	08-Jul-25	04-Aug-25	09-Jun-25	07-Jul-25	-241	0%
	Irrigation Works_Between Bridge A3 and Depressed Road A & along FW29								
C.IR.1110	Install Irrigation system along FW29	24	24	08-Oct-25	05-Nov-25	08-Oct-25	05-Nov-25	-16	0%
	Irrigation Works_Along Road L3								
C.IR.1170	Install Irrigation system at Road L3	24	24	27-Oct-25	24-Nov-25	27-Oct-25	24-Nov-25	-32	0%
	Existing UUs Diversion								



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
CLP									
CLP 132kV and 11kV Cable Works at Bridge and interchange area									
CLP-1080	CLP :- Completion of CLP Changover	0	0		23-Oct-25		23-Oct-25	-257	0%
CLP 11kV Cables works at Interchange Area (tentative scheme)									
CLP-4030	CLP :- CLP Changeover Works (At portion H,I,J,N) - 14 nos. joint boxes	71	71	31-Jul-25	23-Oct-25	31-Jul-25	23-Oct-25	-257	0%
CLP-5060a	CLP :- 11kV Cables (14 pcs.) laying above Underpass Bay C9 to C11	12	20	02-Dec-24 A	30-Jul-25	02-Dec-24	30-Jul-25	-257	0%
Telecom (by Others)									
HGC/HKBN/HKBNESHK/PCCW									
TL-1040	PCCW diversion-stage 5 (near the toilet & RCP)	23	10	01-Mar-24 A	18-Jul-25	01-Mar-24	19-Jun-25	-363	56.52%
TL-1060	Abandon of existing cables of UUs	30	30	31-Jul-25	03-Sep-25	03-Jul-25	06-Aug-25	-53	0%
Towngas/telecom									
TL-3010	HGC/HKBN/HKBNES diversion -stage 2 (after TTA)	49	20	08-Mar-24 A	30-Jul-25	08-Mar-24	02-Jul-25	-53	59.18%
Interchange Area_Stormwater Pumping Station (SWPS) under Portion H									
Stormwater Pumping Station_Statutory Submission and Design under Portion H									
IC.SW.2190	SWPS :- FS design (Stormwater pumping station)	268	45	08-May-23 A	28-Aug-25	08-May-23	31-Jul-25	-262	83.21%
IC.SW.2230	SWPS :- Scada design (Stormwater pumping station)	268	45	08-May-23 A	28-Aug-25	08-May-23	31-Jul-25	-262	83.21%
IC.SW.2250	SWPS :- Submission & Approval of DDA to DSD (Stormwater pumping station)	152	152	29-Aug-25	04-Mar-26	01-Aug-25	31-Jan-26	-262	0%
IC.SW.2410	SWPS :- Submission & approval of WWO 542 (Application for Water Supply)	269	54	09-Apr-24 A	30-Aug-25	09-Apr-24	31-Jul-25	-248	79.93%
IC.SW.2430	SWPS :- Mega Link application	266	266	31-Aug-25	23-May-26	01-Aug-25	23-Apr-26	-248	0%
IC.SW.2450	SWPS :- Direct Link application	266	266	31-Aug-25	23-May-26	01-Aug-25	23-Apr-26	-248	0%
Stormwater Pumping Station - Confined space works under TTA2 under Portion H									
IC.SW.2650	SWPS :- Underground wall, subway & Structure Construction to +9.70mPD	114	21	10-Apr-24 A	31-Jul-25	10-Apr-24	25-Jul-25	-86	81.58%
Interchange Area_Sewage Pumping Station (SEWPS)									
SEWPS Statutory Submission and Design									
IC.SE.1370	SEWPS :- Sewage Pumping Station Mega Link Application	180	21	29-Nov-23 A	28-Jul-25	29-Nov-23	28-Jun-25	-246	88.33%
IC.SE.1410	SEWPS :- Sewage Pumping Station Submit WR1 (Works Completion Cert.)	7	7	04-Oct-25	10-Oct-25	04-Oct-25	10-Oct-25	-320	0%
IC.SE.1430	SEWPS :- Sewage Pumping Station Submit FS314/501 - Apply for FSD Inspection	14	14	26-Sep-25	09-Oct-25	26-Sep-25	09-Oct-25	-319	0%
Sewage Pumping Station in Portion N (After TTA2 Northbound)									



Remaining Work | Crit Milestone | Milestone | Actual Work | Baseline Milestone | Actual Milestone | Project Baseline | Critical Remaining Work

Project ID: RP11.MU06-2025

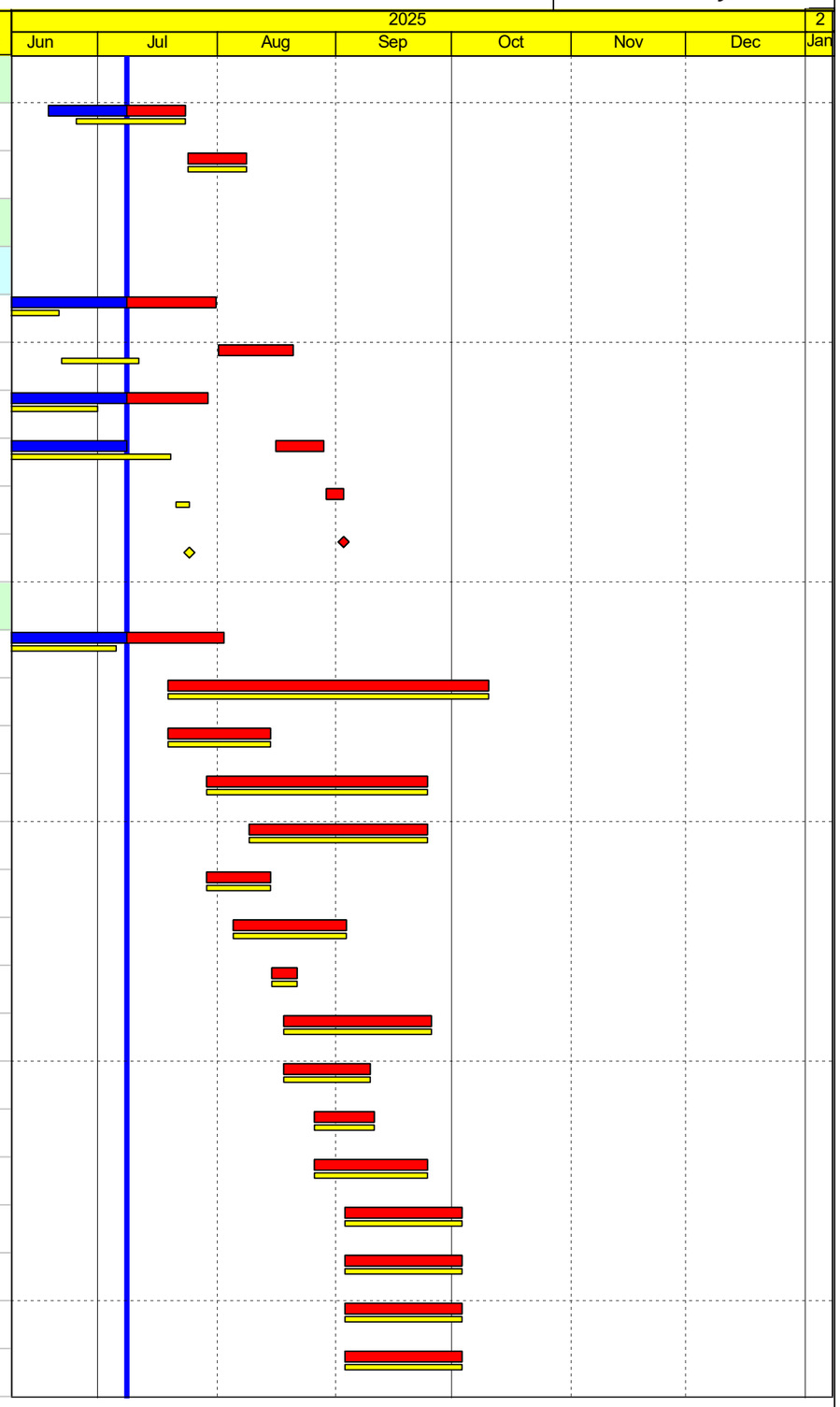
Three Months Rolling Programme (08 Jul 2025 to 31 October 2025)

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	SEWPS_Structural Works								
IC.SE.1670	SEWPS :- Sewage Pumping Station Construct Roof Slab (incl. Erect Falsework & Formworks) & external stairway	24	14	18-Jun-25 A	23-Jul-25	25-Jun-25	23-Jul-25	-311	41.67%
IC.SE.1690	SEWPS :- Sewage Pumping Station Roof Slab Waterproofing	14	14	24-Jul-25	08-Aug-25	24-Jul-25	08-Aug-25	-258	0%
	SEWPS_Transformer Room, Switch Room								
	Tx and Switch Rooms - ABWF, E&M Works								
IC.SE.1870	SEWPS TX/SR :- Switch Room - Internal ABWF Works	30	21	16-Jan-25 A	31-Jul-25	16-Jan-25	20-Jun-25	-285	30%
IC.SE.1890	SEWPS TX/SR :- Switch Room - Internal E&M/BS Works	17	17	01-Aug-25	20-Aug-25	21-Jun-25	11-Jul-25	-285	0%
IC.SE.1910	SEWPS TX/SR :- Switch Room - E&M Installation of Switchboard	17	19	03-Feb-25 A	29-Jul-25	03-Feb-25	30-Jun-25	-266	0%
IC.SE.1970	SEWPS TX/SR :- CLP works in TX Room (3 calendar months duration)	70	11	19-Feb-25 A	28-Aug-25	19-Feb-25	19-Jul-25	-285	84.29%
IC.SE.1990	SEWPS TX/SR :- CLP Power Energization works for Sewage Pumping Station	4	4	29-Aug-25	02-Sep-25	21-Jul-25	24-Jul-25	-285	0%
IC.SE.2010	SEWPS TX/SR :- CLP Power ready for operation of Sewage Pumping Station	0	0		02-Sep-25		24-Jul-25	-285	0%
	SEWPS_ABWF and E&M Works (Remaining Parts of Sewage PS)								
IC.SE.2090	SEWPS :- E&M works delivery (incl. Pump, Screen, Stoplog, Penstock/valve, FS equip't, Crane, pipe	80	23	24-Feb-25 A	02-Aug-25	24-Feb-25	05-Jul-25	-301	71.25%
IC.SE.2110	SEWPS :- Ext. Works_Rain/sewage water manhole and pipeworks	70	70	19-Jul-25	10-Oct-25	19-Jul-25	10-Oct-25	-311	0%
IC.SE.2130	SEWPS :- Ext. Works_HKT Manhole, Ducting & Wiring	23	23	19-Jul-25	14-Aug-25	19-Jul-25	14-Aug-25	-311	0%
IC.SE.2150	SEWPS :- Ext. Works_Underground water pipeworks	50	50	29-Jul-25	24-Sep-25	29-Jul-25	24-Sep-25	-311	0%
IC.SE.2170	SEWPS :- Ext. Works_Rain water Syatem at R/F	40	40	09-Aug-25	24-Sep-25	09-Aug-25	24-Sep-25	-298	0%
IC.SE.2190	SEWPS :- FS works_FS Cabling & Ctrl. accessories (Lev. +11.5 mpD)	15	15	29-Jul-25	14-Aug-25	29-Jul-25	14-Aug-25	-311	0%
IC.SE.2210	SEWPS :- Elect. Overhead Travelling Crane (Lev. +11.5 mpD)	26	26	05-Aug-25	03-Sep-25	05-Aug-25	03-Sep-25	-286	0%
IC.SE.2230	SEWPS :- FS works_T&C (Lev. +11.5 mpD)	6	6	15-Aug-25	21-Aug-25	15-Aug-25	21-Aug-25	-299	0%
IC.SE.2250	SEWPS :- BS works (Lev. +11.5 mpD)	34	34	18-Aug-25	25-Sep-25	18-Aug-25	25-Sep-25	-299	0%
IC.SE.2270	SEWPS :- Valve Chamber_Pipeworks, valves and fittings (Lev. +7.0 mpD)	20	20	18-Aug-25	09-Sep-25	18-Aug-25	09-Sep-25	-311	0%
IC.SE.2290	SEWPS :- Inlet Chamber_Influent Bracket Screens	14	14	26-Aug-25	10-Sep-25	26-Aug-25	10-Sep-25	-311	0%
IC.SE.2310	SEWPS :- Inlet Chamber_Stoplog SL-01	26	26	26-Aug-25	24-Sep-25	26-Aug-25	24-Sep-25	-304	0%
IC.SE.2330	SEWPS :- Wet Well_Penstock PS-01 to PS-03 (Lev. +8.2 mpD)	26	26	03-Sep-25	03-Oct-25	03-Sep-25	03-Oct-25	-311	0%
IC.SE.2350	SEWPS :- Wet Well_Sewage Water Pumps SP-01 & Sp-02 (Lev. +8.2 mpD)	26	26	03-Sep-25	03-Oct-25	03-Sep-25	03-Oct-25	-311	0%
IC.SE.2370	SEWPS :- Toilet_Sanifit Installation	26	26	03-Sep-25	03-Oct-25	03-Sep-25	03-Oct-25	-305	0%
IC.SE.2390	SEWPS :- Toilet_MEP Installation incl. Heater	26	26	03-Sep-25	03-Oct-25	03-Sep-25	03-Oct-25	-305	0%

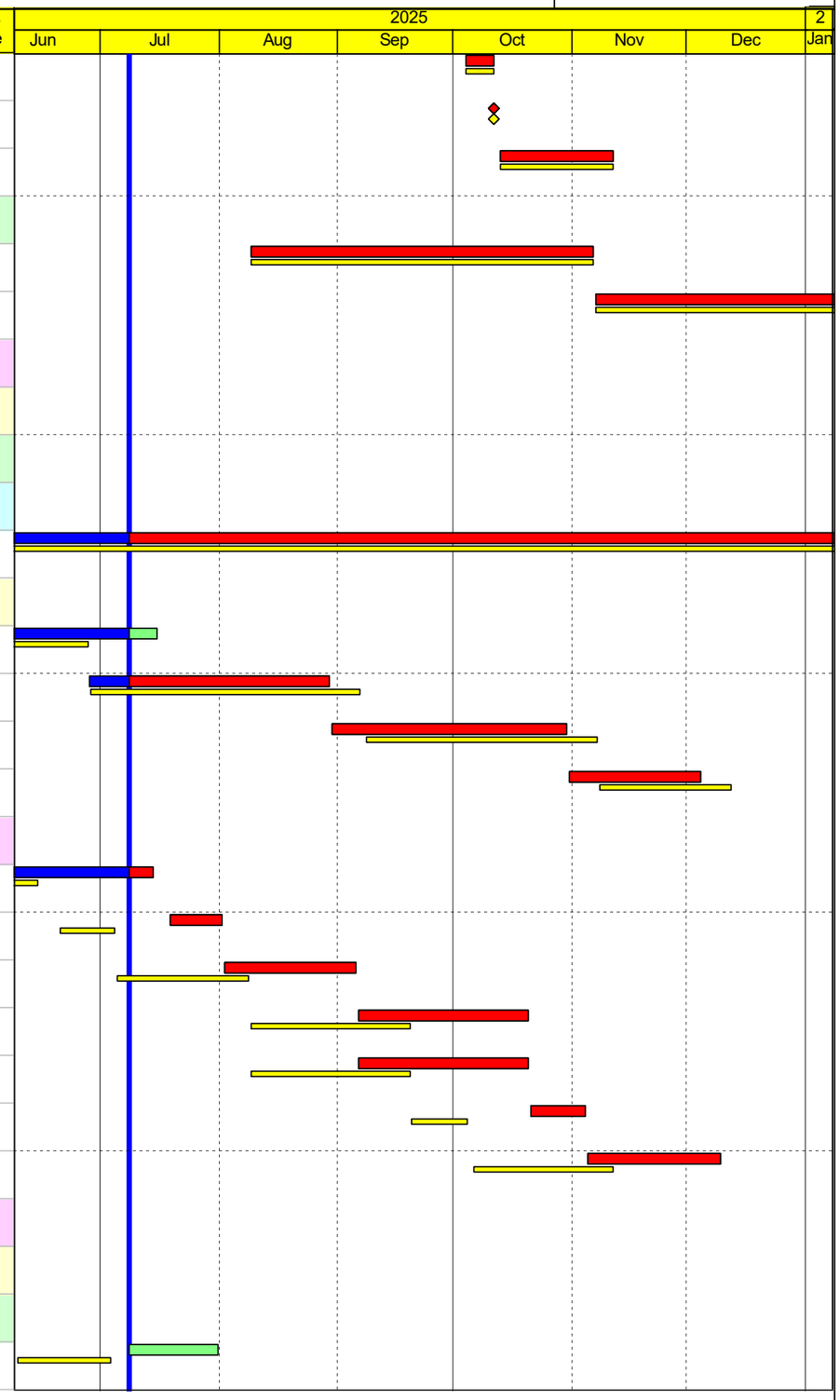


Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

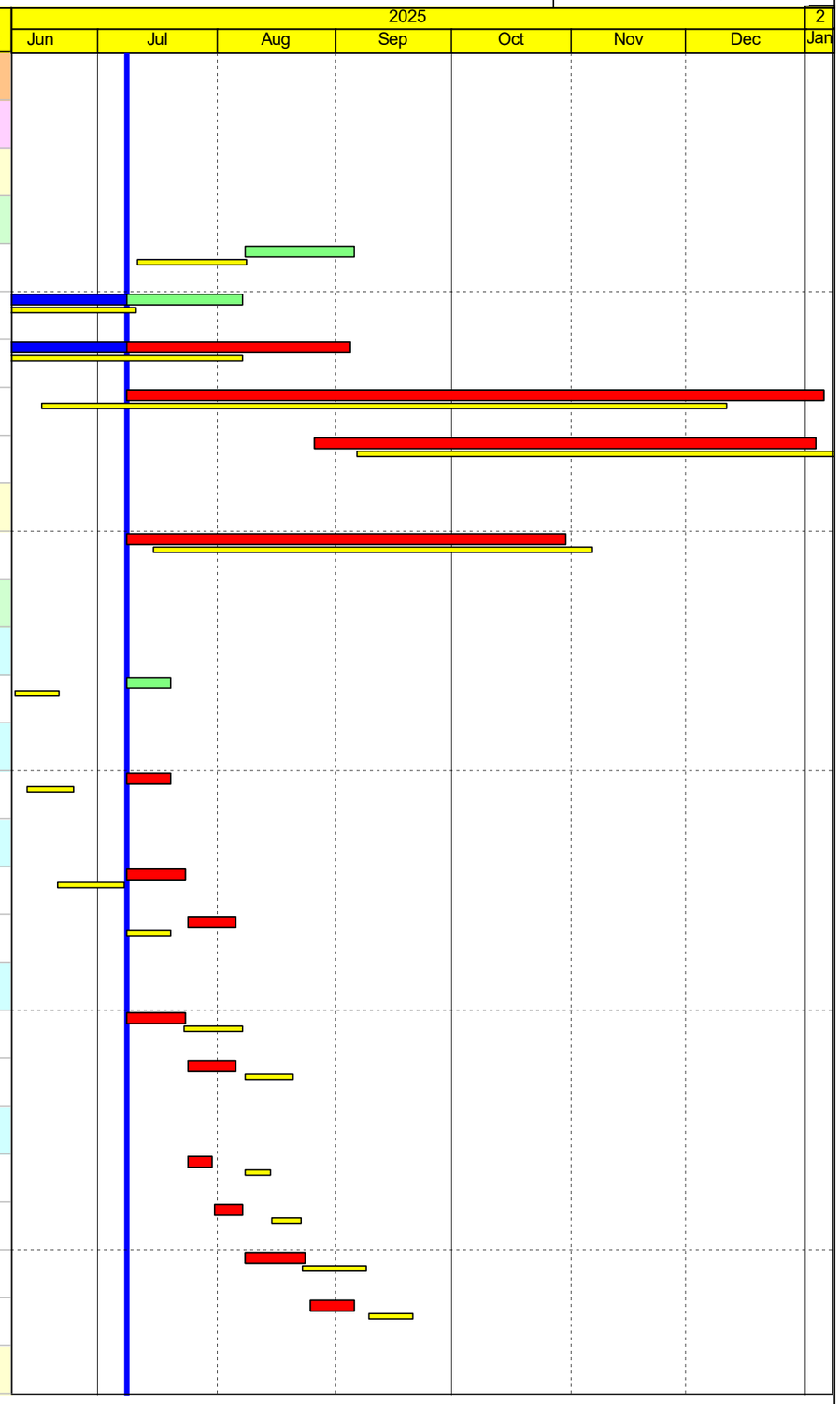
Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025			
Date	Revision	Checked	Approved
08-Jul-25	Data Date		

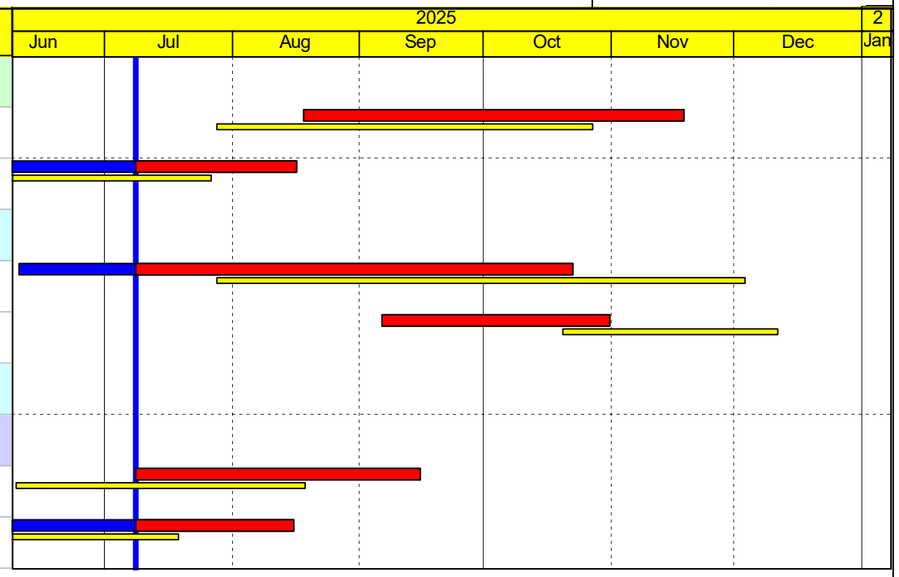
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
IC.SE.2410	SEWPS :- T&C of the Sewage Pumping System & BS System	6	6	04-Oct-25	11-Oct-25	04-Oct-25	11-Oct-25	-311	0%
IC.SE.2430	SEWPS :- Achieved KD2 - Complete the Sewage Pumping Station & associated rooms required for FS Inspection	0	0		11-Oct-25		11-Oct-25	-311	0%
IC.SE.2450	SEWPS :- E&M & FS T&C works & FSD inspection from FS From 501 to FS Form 172	25	25	13-Oct-25	11-Nov-25	13-Oct-25	11-Nov-25	-260	0%
SEWPS_Landscape Works									
IC.LW.1010	Landscape :- Landscaping Works - Roof Greenery & Ground	74	74	09-Aug-25	06-Nov-25	09-Aug-25	06-Nov-25	-256	0%
IC.LW.1050	Landscape :- Establishment works for Landscape softworks in Portion N (1855 days)(calendar day)(S10B)	365	365	07-Nov-25	06-Nov-26	07-Nov-25	06-Nov-26	-318	0%
Interchange Area_Reprovision of On Luk Mun Street Playground (S3)									
Works in Portion K1									
Portion K_New Skateboard Park									
Landscape Area									
OLMSP.191(	Landscape :- Establishment works	365	265	28-Feb-25 A	29-Mar-26	28-Feb-25	29-Mar-26	-158	27.4%
Works in Portion P									
OLMSP.2850	Port.P :- Retaining Wall FW10 (4 bays, Bay 17 to 20)	38	7	27-Dec-24 A	15-Jul-25	27-Dec-24	27-Jun-25	502	81.58%
OLMSP.2870	Port.P :- Backfilling work to Retaining Wall FW10 & remaining area (between abutment (by Contract C5) & Depressed road	60	46	28-Jun-25 A	29-Aug-25	28-Jun-25	06-Sep-25	-357	23.33%
OLMSP.2890	Port.P :- Water main works at slip road in front of Retaining Wall FW10 & road & drainage works	50	50	30-Aug-25	30-Oct-25	08-Sep-25	07-Nov-25	-357	0%
OLMSP.2910	Port.P :- Testing for water main works at slip road in front of Retaining Wall FW10	30	30	31-Oct-25	04-Dec-25	08-Nov-25	12-Dec-25	-357	0%
Interchange Area_Reprovision of Public Toilet and Refuse Collection Point (S6)									
PTRCP.1150	P.Toilet/RCP(S6) :- Procurement/Fabrication/Delivery of builder works & E&M items	79	6	08-May-24 A	14-Jul-25	08-May-24	14-Jun-25	-359	92.41%
PTRCP.1190	P.Toilet/RCP(S6) :- On-site installation (Public Toilet & RCP)	12	12	19-Jul-25	01-Aug-25	20-Jun-25	04-Jul-25	-363	0%
PTRCP.1210	P.Toilet/RCP(S6) :- Waterproofing & other remaining works UUs, drainage	30	30	02-Aug-25	05-Sep-25	05-Jul-25	08-Aug-25	-363	0%
PTRCP.1230	P.Toilet/RCP(S6) :- ABWF for Public Toilet & RCP	36	36	06-Sep-25	20-Oct-25	09-Aug-25	19-Sep-25	-309	0%
PTRCP.1250	P.Toilet/RCP(S6) :- EM & BS. for Public Toilet & RCP	36	36	06-Sep-25	20-Oct-25	09-Aug-25	19-Sep-25	-363	0%
PTRCP.1270	P.Toilet/RCP(S6) :- Works required by CLP at meter room at Public Toilet	12	12	21-Oct-25	04-Nov-25	20-Sep-25	04-Oct-25	-309	0%
PTRCP.1290	P.Toilet/RCP(S6) :- Testing & FS inspection (S6)	30	30	05-Nov-25	09-Dec-25	06-Oct-25	11-Nov-25	-309	0%
Interchange Area_Construction of Outfall along Depressed Road A									
Outfall 8530A									
Outfall 8530A_Construction									
OFL.8530.380	Outfall 8530A :- Backfill & Reinstate Feature Slope & Grasscrete	21	21	08-Jul-25	31-Jul-25	09-Jun-25	03-Jul-25	488	0%



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Construction_Construction of U Trough and Retaining Walls								
	Retaining Walls (FWs)								
	FW29, FW,25, FW34 (Bet. Bridge Pier A3-06 and Depressed Road A at Portions C and F)								
	Structural Works								
C.FW.1230	FW :- Remaining retaining wall FW34	25	25	08-Aug-25	05-Sep-25	11-Jul-25	08-Aug-25	457	0%
C.FW.1250	FW :- Retaining wall FW29 (22 bays)	135	27	09-Jan-24 A	07-Aug-25	09-Jan-24	10-Jul-25	34	80%
C.FW.1310	FW :- Install Noise barrier Posts on NB23 (FW25) & As-built rec. (230m L, 83 posts) Interchange (IC) direction@1.5Post/d	51	51	16-May-25 A	04-Sep-25	16-May-25	07-Aug-25	-148	0%
C.FW.1330	FW :- Fabricate Noise barrier NB23 Subframe/Panel (Alu./Glass) (230m L, 83 posts) Interchange (IC) direction	150	150	08-Jul-25	05-Jan-26	16-Jun-25	11-Dec-25	-148	0%
C.FW.1390	FW :- Outfall & riverbank related works (Check)	107	107	26-Aug-25	03-Jan-26	06-Sep-25	15-Jan-26	-64	0%
	FW07, FW08 (at Depressed Road A and Underpass - Portion H)								
C.FW.1430	FW :- Retaining Wall FW7	96	96	08-Jul-25	30-Oct-25	15-Jul-25	06-Nov-25	-152	0%
	Retaining Wall - FW08 (Before TTA 3)								
	Bay 1 to 3								
C.FW.2230	FW8 :- Bay 1 to 3 - Parapet	11	11	08-Jul-25	19-Jul-25	09-Jun-25	20-Jun-25	498	0%
	Bay 4 to 6								
C.FW.2310	FW8 :- Bay 4 to 6 - Parapet	11	11	08-Jul-25	19-Jul-25	12-Jun-25	24-Jun-25	-101	0%
	Bay 7 to 9								
C.FW.2350	FW8 :- Bay 7 to 9 - Wall	14	14	08-Jul-25	23-Jul-25	20-Jun-25	07-Jul-25	-115	0%
C.FW.2370	FW8 :- Bay 7 to 9 - Parapet	11	11	24-Jul-25	05-Aug-25	08-Jul-25	19-Jul-25	-115	0%
	Bay 10 to 12								
C.FW.2090	FW8 :- Bay 10 to 12 - Wall	14	14	08-Jul-25	23-Jul-25	23-Jul-25	07-Aug-25	-142	0%
C.FW.2110	FW8 :- Bay 10 to 12 - Parapet	11	11	24-Jul-25	05-Aug-25	08-Aug-25	20-Aug-25	-115	0%
	Bay 13 to 15								
C.FW.2130	FW8 :- Bay 13 to 15 - Excavation	6	6	24-Jul-25	30-Jul-25	08-Aug-25	14-Aug-25	-142	0%
C.FW.2150	FW8 :- Bay 13 to 15 - Base slab	7	7	31-Jul-25	07-Aug-25	15-Aug-25	22-Aug-25	-142	0%
C.FW.2170	FW8 :- Bay 13 to 15 - Wall	14	14	08-Aug-25	23-Aug-25	23-Aug-25	08-Sep-25	-142	0%
C.FW.2190	FW8 :- Bay 13 to 15 - Parapet	11	11	25-Aug-25	05-Sep-25	09-Sep-25	20-Sep-25	-142	0%
	Noise Barriers (NB) and Semi-Enclosure (SE)								



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
	Noise Barrier FLN-SE22 and FLN-SE21 (Portion J)								
C.SE21-1010	SE21 :- Fabrication of Semi-enclosure SE21 (33 nos. post)	77	77	18-Aug-25	18-Nov-25	28-Jul-25	27-Oct-25	-331	0%
C.SE22-1010	SE22 :- Fabrication of Semi-enclosure SE22 (33 nos. post)	72	35	01-Mar-25 A	16-Aug-25	01-Mar-25	26-Jul-25	-331	51.39%
	Noise Barrier FLN-SE22 Panels, Beams, BS & E&M Works								
C.SE22-1070	Installation of noise barrier NB_SE22 steel post & beam- FLN-SE22 (30 nos. Posts)	108	90	10-Jun-25 A	22-Oct-25	28-Jul-25	03-Dec-25	-263	16.67%
C.SE22-1090	BS. & E&M works (incl. lighting) for Noise barrier NB_SE22, FLN-SE22	45	45	06-Sep-25	31-Oct-25	20-Oct-25	11-Dec-25	-263	0%
	Noise Barrier FLN-SE21 (Near Fanling)								
	Under TTA 2 (After S960 F6 Steel structure delivery Part A,B, C & D)								
C.SE21-102	SE21 Wall Stem - Central Median	60	60	08-Jul-25	15-Sep-25	09-Jun-25	18-Aug-25	-279	0%
C.SE21-105	SE21 Wall Stem - Northbound (commence after F6 major parts delivery)	60	34	08-May-25 A	15-Aug-25	08-May-25	18-Jul-25	-253	43.33%



Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

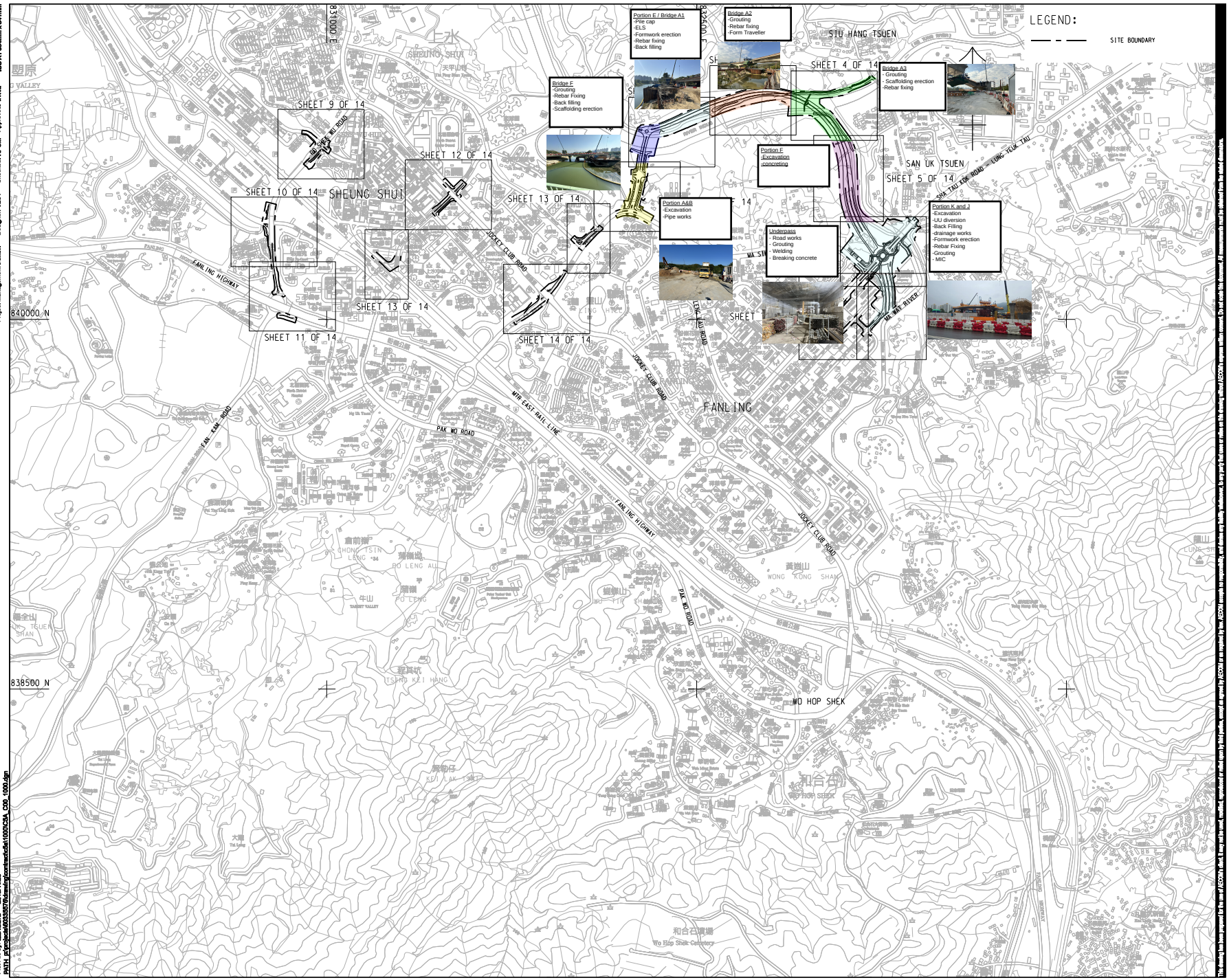
Project ID: RP11.MU06-2025

Three Months Rolling Programme (08 Jul 2025 to 31 October 2025)

Data Date: 08-Jul-25
Printed: 15-Jul-25 10:57
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP11 Accepted on 26 May 2025

Date	Revision	Checked	Approved
08-Jul-25	Data Date		



AECOM

PROJECT

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

CONTRACT TITLE:

FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: FANLING BYPASS EASTERN SECTION (SHEK WU SAN TSUEN NORTH TO LUNG YEUK TAU)

CLIENT

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
-	NOV-19	TENDER DRAWING	RPCM

STATUS

SCALE A1 1 : 7000

DIMENSION UNIT METRES

KEY PLAN

PROJECT NO. 60335576

CONTRACT NO. ND/2019/04

SHEET TITLE

KEY PLAN AND LOCATION PLAN

SHEET NUMBER

60335576/C5A/C00/1000

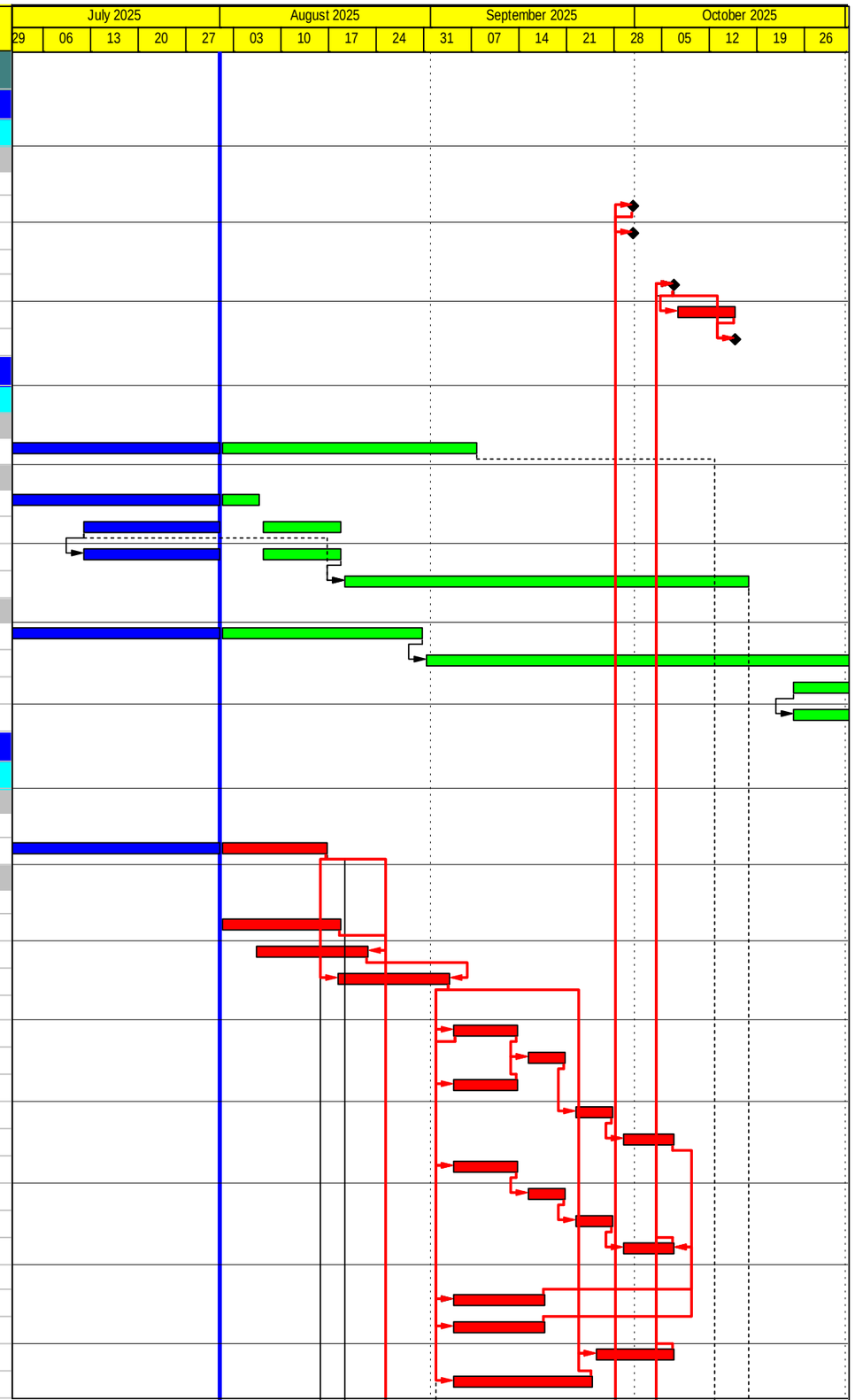
Project Management Initials: Designer: JLDT Checked: RPCM Approved: WWL ISO A1 594mm x 841mm

Plot File by: ZENGXU2 2019/11/23
PATH: J:\Projects\60335576\Technical\Drawings\mxd\ac\ac1000\C5A_C00_1000.dgn

The drawing and the design thereof are the property of AECOM and should not be reproduced or published without the permission of AECOM. They should not be lent, copied, used or disclosed for any purpose not connected with the purpose for which they were prepared and all rights reserved under the Copyright Ordinance and all other intellectual property laws and conventions around the world. Drawings and designs may not be scaled.

Construction Programme of ND/2019/05

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
3MRP No. 65 (August 2025)				
1.0 - Contract Data Part 1				
1.3 - Completion Date				
1.3.2 - Section of the Works				
Section 2				
S2-2	Section 2 Plan Completion	0		30-Sep-25
S2-3	Section 2 Completion	0		30-Sep-25*
Section 4				
S4-2	Section 4 Plan Completion	0		06-Oct-25
S4-3	Section 4 Terminal Float	9	07-Oct-25	15-Oct-25
S4-4	Section 4 Completion	0		15-Oct-25*
2.0 - Preliminary Works				
2.3 - Contractor's Design (PS 1,109)				
2.3.2 - (b) Irrigation system				
CDb-130	Irrigation System - Design Approval	38	01-Aug-24 A	07-Sep-25
2.3.10 - (j) Crash Cushion System				
CDj-100	Crash Cushion System - Procurement	6	19-Feb-25 A	06-Aug-25
CDj-120	Crash Cushion System - Design ICE	12	12-Jul-25 A	18-Aug-25
CDj-130	Crash Cushion System - Design Approval	12	12-Jul-25 A	18-Aug-25
CDj-140	Crash Cushion System - Fabrication and Delivery	60	19-Aug-25	17-Oct-25
2.3.11 - (k) Deck Girdder Access Facilities				
CDk-100	Access Facilities - Procurement	30	01-Jan-24 A	30-Aug-25
CDk-110	Access Facilities - Prep/Submit Design	90	31-Aug-25	28-Nov-25
CDk-120	Access Facilities - Design ICE	36	24-Oct-25	28-Nov-25
CDk-130	Access Facilities - Design Approval	72	24-Oct-25	03-Jan-26
4.0 - Bridge Construction				
4.4 - Bridge B1				
4.4.4 - Bridge Deck				
- Portal Beam				
B1-0064	B1-02 Portal Beam Monolytic Connection to Column	14	30-Jun-25 A	16-Aug-25
4.4.5 - Bridge Deck Road Works				
- Parapet				
B1-4010	B1 Parapet Skin Erection / Cast Kicker (43m @ 20m/day)	15	01-Aug-25	18-Aug-25
B1-4020	B1 Parapet Rebar+Cast-in Items (43m @ 20m/day)	15	06-Aug-25	22-Aug-25
B1-4049	B1 P.B & C.M Construction (43m+45m) - 10m mould @ 3d cycle	15	18-Aug-25	03-Sep-25
- Road Paving				
B1-5110	B1 S/B Make good surface and apply Waterproofing	9	04-Sep-25	13-Sep-25
B1-5120	B1 S/B Base Course	6	15-Sep-25	20-Sep-25
B1-5130	B1 S/B Gratings and Gullies	9	04-Sep-25	13-Sep-25
B1-5140	B1 S/B Wearing and Friction Course	6	22-Sep-25	27-Sep-25
B1-5150	B1 S/B Road Marking	6	29-Sep-25	06-Oct-25
B1-5210	B1 N/B Make good surface and apply Waterproofing	9	04-Sep-25	13-Sep-25
B1-5220	B1 N/B Base Course	6	15-Sep-25	20-Sep-25
B1-5240	B1 N/B Wearing and Friction Course	6	22-Sep-25	27-Sep-25
B1-5250	B1 N/B Road Marking	6	29-Sep-25	06-Oct-25
- Road Furniture and Misc Works				
B1-5260	B1 - Road Furniture	12	04-Sep-25	17-Sep-25
B1-5270	B1 - Road Lighting including Pillar Box and Cabling	12	04-Sep-25	17-Sep-25
B1-5280	B1 - Sign Gantry DS19 Install	9	25-Sep-25	06-Oct-25
B1-5285	B1 - Sign Gantry DS19 Site Delivery	18	04-Sep-25	24-Sep-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

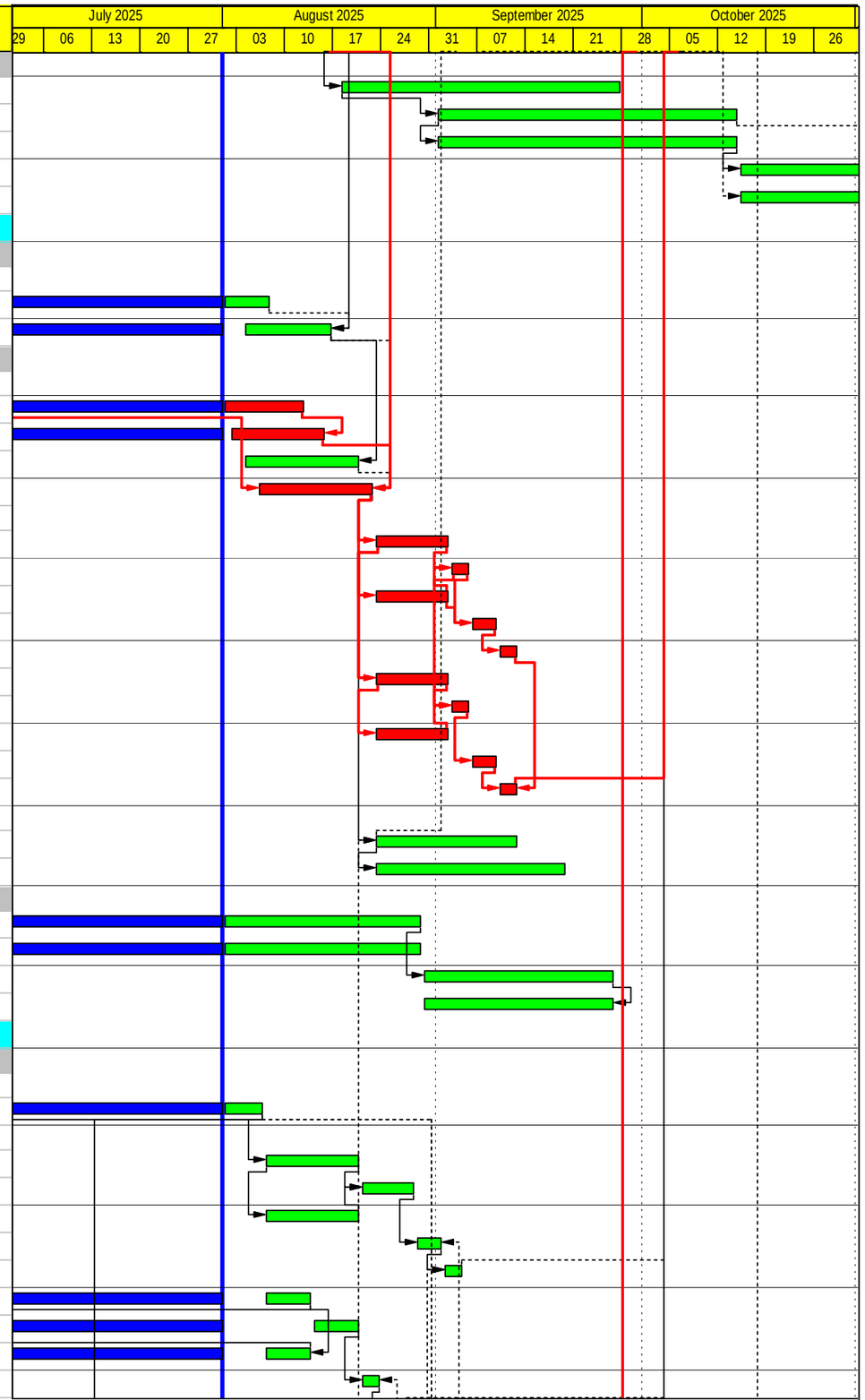
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 1 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
4.4.6 - Bridge B1 Ground Level Works				
B1-0014a90	B1 -Removal of support tower and foundation	36	18-Aug-25	27-Sep-25
B1-7000	B1 Grd Lev - Reinstatement Works	36	01-Sep-25	14-Oct-25
B1-7050	B1 Grd Lev - Drainage Works	36	01-Sep-25	14-Oct-25
B1-7200	B1 Grd Lev - Landscaping	18	15-Oct-25	05-Nov-25
B1-7250	B1 Grd Lev - Irrigation System	18	15-Oct-25	05-Nov-25
4.5 - Bridge B2				
4.5.2 - Bridge Deck Structure				
- Stitch and Stress				
B2-0535	B2 - Longitudinal Fwk + Rebar (154m @ 20m/day)	6	12-Mar-25 A	07-Aug-25
B2-0540	B2 - Cast Longitudinal Stitching (154mx2 @ 20m/day)	12	26-Apr-25 A	16-Aug-25
4.5.3 - Bridge Deck Road Works				
- Parapet				
B2-4010	B2 S/B & N/B Parapet Skin Erection / Cast Kicker (272m @ 20m/day)	10	16-Jun-25 A	12-Aug-25
B2-4020	B2 S/B & N/B Parapet Rebar+Cast-in Items (272m @ 20m/day)	12	25-Jun-25 A	15-Aug-25
B2-4048	B2 C.M Construction (155m) 4sets 10m-mould @ 3d cycle	15	04-Aug-25	20-Aug-25
B2-4049	B2 P.B Construction (272m) 4sets 10m-mould @ 3d cycle	15	06-Aug-25	22-Aug-25
- Road Paving				
B2-5110	B2 S/B Make Good Surface and Apply Waterproofing	9	23-Aug-25	02-Sep-25
B2-5120	B2 S/B Base Course	3	03-Sep-25	05-Sep-25
B2-5130	B2 S/B Gratings and Gullies	9	23-Aug-25	02-Sep-25
B2-5140	B2 S/B Wearing and Friction Course	3	06-Sep-25	09-Sep-25
B2-5150	B2 S/B Road Marking	3	10-Sep-25	12-Sep-25
B2-5210	B2 N/B Make Goof Surface and Apply Waterproofing	9	23-Aug-25	02-Sep-25
B2-5220	B2 N/B Base Course	3	03-Sep-25	05-Sep-25
B2-5230	B2 N/B Gratings and Gullies	9	23-Aug-25	02-Sep-25
B2-5240	B2 N/B Wearing and Friction Course	3	06-Sep-25	09-Sep-25
B2-5250	B2 N/B Road Marking	3	10-Sep-25	12-Sep-25
- Road Furniture and Misc Works				
B2-4050	B2 Road Furniture	18	23-Aug-25	12-Sep-25
B2-4052	B2 Road Lighting including Cabling	24	23-Aug-25	19-Sep-25
4.5.4 - Bridge B2 Ground Level Works				
B2-7000	B2 Grd Lev - Reinstatement Work	25	24-Feb-25 A	29-Aug-25
B2-7050	B2 Grd Lev - Drainage Work	25	17-Mar-25 A	29-Aug-25
B2-7200	B2 Grd Lev - Landscaping	24	30-Aug-25	26-Sep-25
B2-7250	B2 Grd Lev - Irrigation System	24	30-Aug-25	26-Sep-25
4.6 - Bridge C1				
4.6.5 - Road Works and Furniture				
- Parapet				
C1-4050	C1 P.B & C.M Construction (360m+180m) 4sets 10m-mould @ 3d cycle	5	19-Feb-25 A	06-Aug-25
- Road Paving				
C1-5110	C1 S/B Make Good Surface and Apply Waterproofing	12	07-Aug-25	20-Aug-25
C1-5120	C1 S/B Base Course	7	21-Aug-25	28-Aug-25
C1-5130	C1 S/B Gratings and Gullies	12	07-Aug-25	20-Aug-25
C1-5140	C1 S/B Wearing and Friction Course	3	29-Aug-25	01-Sep-25
C1-5150	C1 S/B Road Marking	3	02-Sep-25	04-Sep-25
C1-5210	C1 N/B Make Good Surface and Apply Waterproofing	6	20-Jun-25 A	13-Aug-25
C1-5220	C1 N/B Base Course	6	25-Jun-25 A	20-Aug-25
C1-5230	C1 N/B Gratings and Gullies	6	20-Jun-25 A	13-Aug-25
C1-5240	C1 N/B Wearing and Friction Course	3	21-Aug-25	23-Aug-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

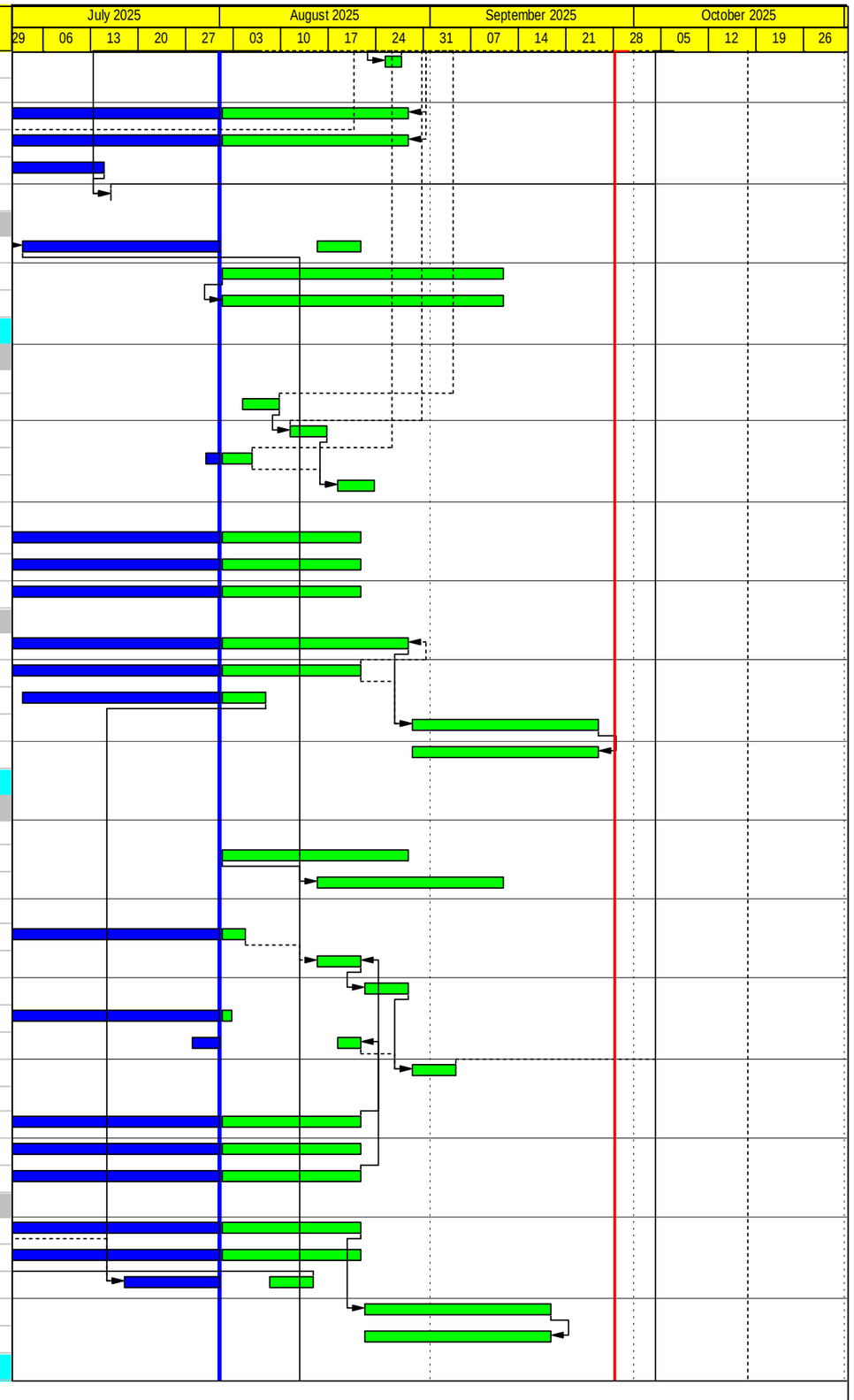
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 2 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
C1-5250	C1 N/B Road Marking	3	25-Aug-25	27-Aug-25
- Road Furniture and Misc Works				
C1-4100	C1 - Road Furniture S/B	24	27-Feb-25 A	28-Aug-25
C1-4500	C1 - Road Furniture N/B	24	27-Feb-25 A	28-Aug-25
C1-4503	C1 - Sign Gantry FADS19 Site Delivery	0	30-Jun-25 A	15-Jul-25 A
C1-4505	C1 - Sign Gantry FADS19 Install	0	16-Jul-25 A	16-Jul-25 A
- Bridge C1 Ground Level Works				
C1-7085	C2 Grd Lev - DN150 Watermain and Bridge Deck FH	6	03-Jul-25 A	21-Aug-25
C1-7200	C1 Grd Lev - Landscaping	36	01-Aug-25	11-Sep-25
C1-7250	C1 Grd Lev - Irrigation System	36	01-Aug-25	11-Sep-25
4.7 - Bridge C2				
4.7.5 - Road Works and Furniture				
- Road Paving and Marking				
C2-5140	C2 S/B Wearing and Friction Course	6	04-Aug-25	09-Aug-25
C2-5150	C2 S/B Road Marking	6	11-Aug-25	16-Aug-25
C2-5240	C2 N/B Wearing and Friction Course	4	30-Jul-25 A	05-Aug-25
C2-5250	C2 N/B Road Marking	6	18-Aug-25	23-Aug-25
- Road Furniture and Misc Works				
C2-4100	C2 - Road Furniture S/B	18	12-Dec-24 A	21-Aug-25
C2-4150	C2 - Noise Barrier NB27	18	28-Apr-25 A	21-Aug-25
C2-4500	C2 - Road Furniture N/B	18	12-Dec-24 A	21-Aug-25
4.7.6 - Bridge C2 Ground Level Works				
C2-7000	C2 Grd Lev - Reinstatement Works	24	14-Feb-25 A	28-Aug-25
C2-7050	C2 Grd Lev - Drainage Works	18	11-Mar-25 A	21-Aug-25
C2-7085	C2 Grd Lev - DN150 Watermain and Bridge Deck FH	6	03-Jul-25 A	07-Aug-25
C2-7200	C2 Grd Lev - Landscaping	24	29-Aug-25	25-Sep-25
C2-7250	C2 Grd Lev - Irrigation System	24	29-Aug-25	25-Sep-25
4.8 - Bridge C3				
4.8.6 - Road Works and Furniture				
- Parapet				
C3-7355	C3 Remove Temp Ramp Connection	24	01-Aug-25	28-Aug-25
C3-7360	C3 Construct Parapet + Paving at Temp Ramp Gap	24	15-Aug-25	11-Sep-25
- Road Paving and Marking				
C3-5120	C3 S/B Base Course	3	21-Jun-25 A	04-Aug-25
C3-5140	C3 S/B Wearing and Friction Course	6	15-Aug-25	21-Aug-25
C3-5150	C3 S/B Road Marking	6	22-Aug-25	28-Aug-25
C3-5220	C3 N/B Base Course	2	07-Apr-25 A	02-Aug-25
C3-5240	C3 N/B Wearing and Friction Course	4	28-Jul-25 A	21-Aug-25
C3-5250	C3 N/B Road Marking	6	29-Aug-25	04-Sep-25
- Furniture and Misc Works				
C3-4100	C3 S/B - Road Furniture	18	01-Nov-24 A	21-Aug-25
C3-4150	C3 S/B - Noise Barrier NB31	18	27-May-25 A	21-Aug-25
C3-4500	C3 N/B - Road Furniture	18	01-Nov-24 A	21-Aug-25
4.8.7 - Bridge C3 Ground Level Works				
C3-7000	C3 Grd Lev - Reinstatement Works	18	03-Apr-24 A	21-Aug-25
C3-7050	C3 Grd Lev - Drainage Works	18	15-Mar-24 A	21-Aug-25
C3-7100	C3 Grd Lev - DN150 Watermain and Bridge Deck FH	6	18-Jul-25 A	14-Aug-25
C3-7200	C3 Grd Lev - Landscaping	24	22-Aug-25	18-Sep-25
C3-7250	C3 Grd Lev - Irrigation System	24	22-Aug-25	18-Sep-25
4.9 - Bridge C4				



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

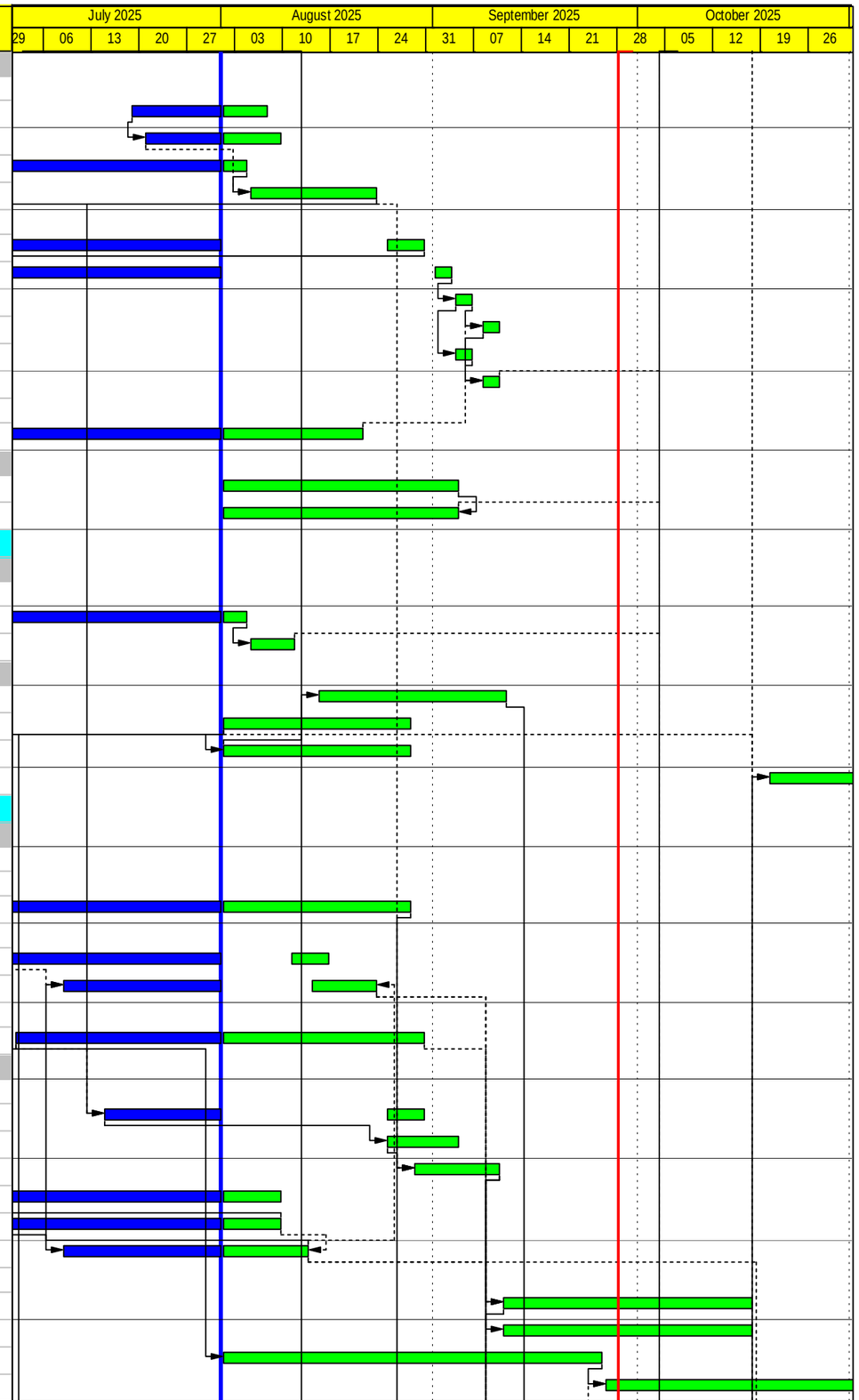
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 3 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
4.9.6 - Road Works and Furniture				
- Parapet				
C4-3010	C4-04 to C4-03 N/B & S/B Parapet Skin Erection/Cast Kicker (113m @ 20m/day)	6	19-Jul-25 A	07-Aug-25
C4-3020	C4-04 to C4-03 N/B & S/B Parapet Rebar+Cast-in Items (113m @ 30m/day)	8	21-Jul-25 A	09-Aug-25
C4-3048	C4 Longitudinal Stitching (56m)	3	06-Mar-25 A	04-Aug-25
C4-3049	C4 P.B & C.M Construction (169m 3sets 10m-mould @ 3d cycle)	17	05-Aug-25	23-Aug-25
- Road Paving				
C4-5310	C4 S/B Make Good Surface Apply Waterproofing	6	30-Apr-25 A	30-Aug-25
C4-5320	C4 S/B Base Course	3	14-May-25 A	03-Sep-25
C4-5340	C4 S/B Wearing and Friction Course	3	04-Sep-25	06-Sep-25
C4-5350	C4 S/B Road Marking	3	08-Sep-25	10-Sep-25
C4-5390	C4 N/B Wearing and Friction Course	3	04-Sep-25	06-Sep-25
C4-5395	C4 N/B Road Marking	3	08-Sep-25	10-Sep-25
- Furniture and Misc Works				
C4-4160	C4 S/B Noise Barrier NB32	18	25-Mar-25 A	21-Aug-25
4.9.7 - Bridge C4 Ground Level Works				
C4-7200	C4 Grd Lev - Landscaping	30	01-Aug-25	04-Sep-25
C4-7250	C4 Grd Lev - Irrigation System	30	01-Aug-25	04-Sep-25
4.10 - Bridge D1				
4.10.5 - Road Works and Furniture				
- Road Paving and Marking				
D1-5560	D1 Wearing and Friction Course	3	27-Jun-25 A	04-Aug-25
D1-7260	D1 Road Marking	6	05-Aug-25	11-Aug-25
4.10.6 - Bridge D1 Ground Level Works				
D1-7000	D1 Grd Lev - Reinstatement Work	24	15-Aug-25	11-Sep-25
D1-7050	D1 Grd Lev - Drainage Work	24	01-Aug-25	28-Aug-25
D1-7080	D1 Grd Lev - Drainage OUTFALL_8564F	24	01-Aug-25	28-Aug-25
D1-7100	D1 Grd Lev - DN150 Watermain for Bridge Deck FH	24	20-Oct-25	17-Nov-25
4.11 - Bridge D2				
4.11.3 - Bridge Deck				
- D2-01				
- Prep Work				
D2-2153	Existing Lift - Reinstatement	24	15-Nov-24 A	28-Aug-25
- D2-04M				
D2-7665	D2-04M Parapet Rebar+Cast in Items (55m @ 20m/day)	6	15-Feb-25 A	16-Aug-25
D2-7675	D2-04M Parapet Cast Concrete (55m @ 4nos 10m-mould @ 3d cycle)	9	09-Jul-25 A	23-Aug-25
- Stitch and Stress				
D2-2750	D2 Stress External Tendon E	26	02-Jul-25 A	30-Aug-25
4.11.4 - Road Works and Furniture				
- Parapet				
D2-3100	D1-04-D2-01 Parapet Skin Erection and Cast Kicker (Rem. 134m @ 20m/day)	6	15-Jul-25 A	30-Aug-25
D2-3120	D1-04-D2-01 Parapet Rebar+Cast-in Items (Rem. 134m @ 20m/day)	10	25-Aug-25	04-Sep-25
D2-3130	D1-04-D2-01 Parapet Cast Concrete (Rem. 134m - 4nos 10m-mould @ 3d cycle)	11	29-Aug-25	10-Sep-25
D2-3132	D2-02 & D2-03 Parapet Skin Erection and Cast Kicker (262m @ 20m/day)	8	07-Dec-24 A	09-Aug-25
D2-3136	D2-02 & D2-03 Parapet Rebar+Cast-in Items (262m @ 20m/day)	8	28-Feb-25 A	09-Aug-25
D2-3138	D2-02 & D2-03 Parapet Cast Concrete (262m @ 4nos 10m-mould @ 3d cycle)	11	09-Jul-25 A	13-Aug-25
- Furnitures and Misc Works				
D2-4500	D2 Road Furniture	30	11-Sep-25	17-Oct-25
D2-4520	D2 Road Lighting including Cabling	30	11-Sep-25	17-Oct-25
D2-4530	D2 Void Lighting System and Access Facilities	48	01-Aug-25	25-Sep-25
D2-4535	D2 Void Drainage	30	26-Sep-25	03-Nov-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

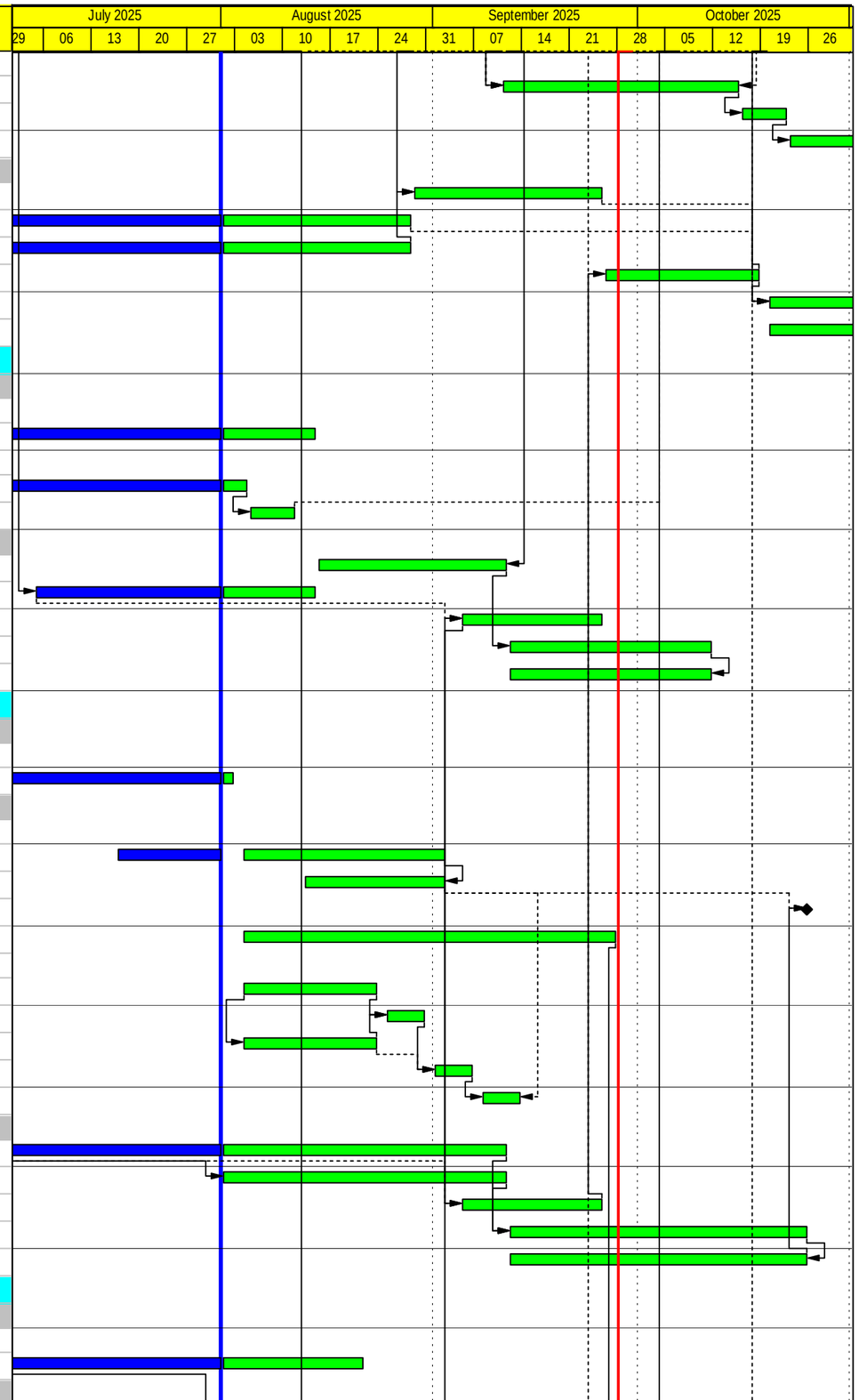
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

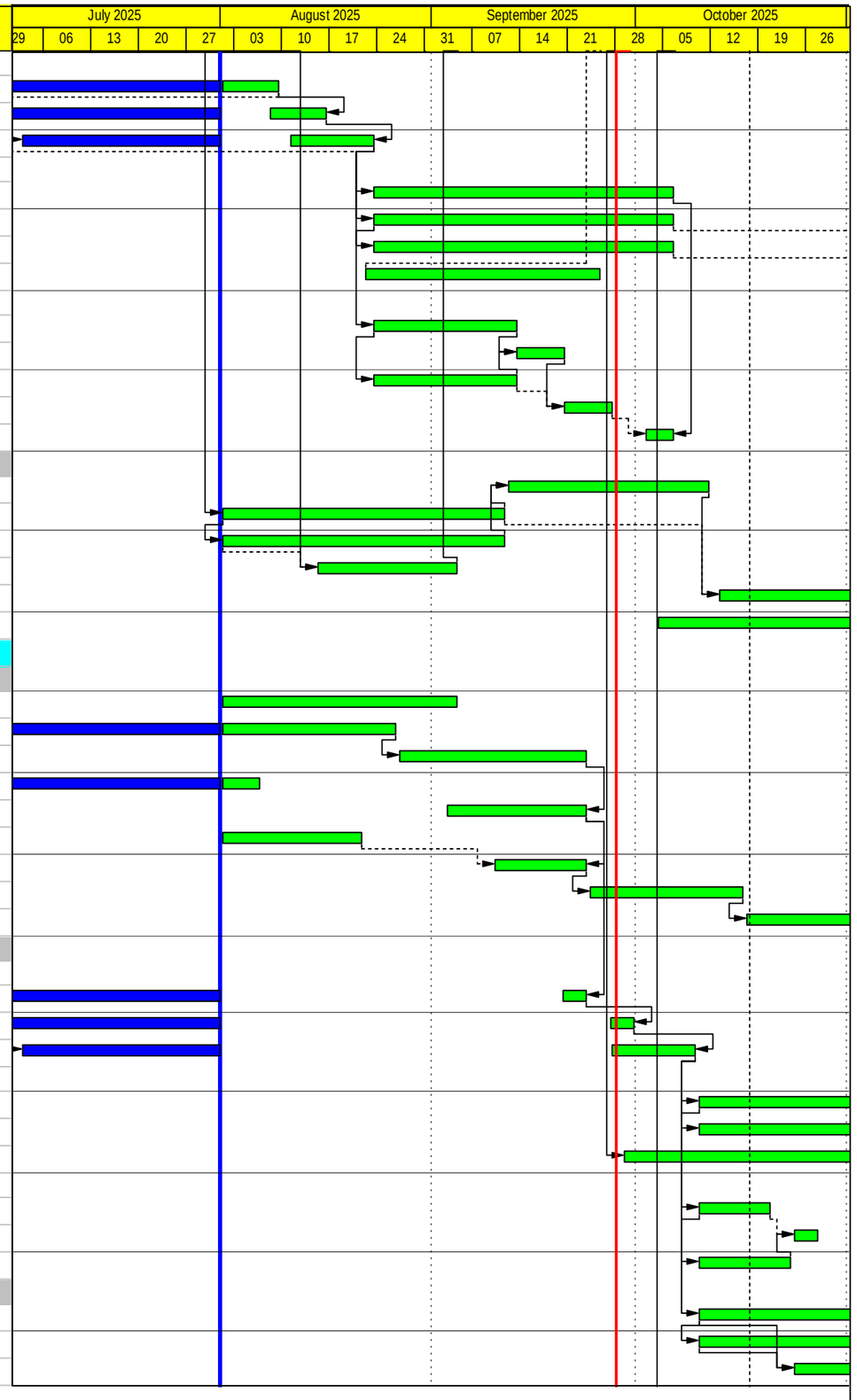
Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 4 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Road Paving and Marking				
D2-5310	D2 Make good surface and apply Waterproofing	28	11-Sep-25	15-Oct-25
D2-5320	D2 Base Course	6	16-Oct-25	22-Oct-25
D2-5330	D2 Gratings and Gullies	9	23-Oct-25	03-Nov-25
4.11.5 - Bridge D2 Ground Level Works				
D2-7000	D2 Grd Lev - Reinstatement Works	24	29-Aug-25	25-Sep-25
D2-7050	D2 Grd Lev - Drainage Works	24	24-Apr-25 A	28-Aug-25
D2-7080	D2 Grd Lev - Drainage OUTFALL_8564H	24	24-Apr-25 A	28-Aug-25
D2-7100	D2 Grd Lev - DN150 Watermain for Bridge Deck FH	18	26-Sep-25	18-Oct-25
D2-7200	D2 Grd Lev - Landscaping	24	20-Oct-25	17-Nov-25
D2-7250	D2 Grd Lev - Irrigation System	24	20-Oct-25	17-Nov-25
4.12 - Bridge E1				
4.12.5 - Road Works and Furniture				
- Furnitures and Misc Works				
E1-4500	E1 - Road Furniture	12	04-Oct-24 A	14-Aug-25
- Road Paving and Marking				
E1-5560	E1 Wearing and Friction Course	3	07-Jun-25 A	04-Aug-25
E1-5565	E1 Road Marking	6	05-Aug-25	11-Aug-25
4.12.6 - Bridge E1 Ground Level Works				
E1-7000	E1 Grd Lev - Reinstatement Work	24	15-Aug-25	11-Sep-25
E1-7050	E1 Grd Lev - Drainage Work	12	05-Jul-25 A	14-Aug-25
E1-7100	E1 Grd Lev - DN150 Watermain for Bridge Deck FH	18	05-Sep-25	25-Sep-25
E1-7200	E1 Grd Lev - Landscaping	24	12-Sep-25	11-Oct-25
E1-7250	E1 Grd Lev - Irrigation System	24	12-Sep-25	11-Oct-25
4.13 - Bridge E2				
4.13.3 - Bridge Deck				
- Stitch and Stress				
E2-2750	Bridge E2 - Stress External Tendon E	2	19-Apr-25 A	02-Aug-25
4.13.4 - Road Works and Furniture				
- Furnitures and Misc Works				
E2-4500	Bridge E2 - Road Furniture	26	17-Jul-25 A	02-Sep-25
E2-7260	Bridge E2 - Road Lighting including Cabling	18	13-Aug-25	02-Sep-25
E2-7261	Handover E2-02	0		25-Oct-25
E2-7275	Bridge E2 - Void Drainage	48	04-Aug-25	27-Sep-25
- Road Paving and Marking				
E2-5510	E2 Make good surface and apply Waterproofing	18	04-Aug-25	23-Aug-25
E2-5520	E2 Base Course	6	25-Aug-25	30-Aug-25
E2-5530	E2 Gratings and Gullies	18	04-Aug-25	23-Aug-25
E2-5540	E2 Wearing and Friction Course	6	01-Sep-25	06-Sep-25
E2-5560	E2 Road Marking	6	08-Sep-25	13-Sep-25
4.13.5 - Bridge E2 Ground Level Works				
E2-7000	E2 Grd Lev - Reinstatement Work	36	05-Nov-24 A	11-Sep-25
E2-7050	E2 Grd Lev - Drainage Work	36	01-Aug-25	11-Sep-25
E2-7100	E2 Grd Lev - DN150 Watermain and Bridge Deck FH	18	05-Sep-25	25-Sep-25
E2-7200	E2 Grd Lev - Landscaping	36	12-Sep-25	25-Oct-25
E2-7250	E2 Grd Lev - Irrigation System	36	12-Sep-25	25-Oct-25
4.14 - Bridge E3				
4.14.4 - Bridge Deck				
- Stitch and Stress				
E3-2750	Bridge E3 - Stress External Tendon E	18	19-Apr-25 A	21-Aug-25
4.14.5 - Road Works and Furniture				



Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Parapet				
E3-3020	E3 Parapet Skin Erection and Cast Kicker (593m @ 20m/day)	8	11-Apr-25 A	09-Aug-25
E3-3040	E3 Parapet Rebar+Cast-in Items (593m @ 20m/day)	8	19-Apr-25 A	16-Aug-25
E3-3050	E3 Parapet Cast Concrete (593m - 4nos 10m-mould @ 3d cycle)	11	03-Jul-25 A	23-Aug-25
- Furnitures and Misc Works				
E3-4400	E3 - Noise Barrier NB28 Noise Panel	36	23-Aug-25	06-Oct-25
E3-4500	E3 - Road Furniture	36	23-Aug-25	06-Oct-25
E3-7260	E3 - Road Lighting including Cabling	36	23-Aug-25	06-Oct-25
E3-7550	E3 - Void Drainage	30	22-Aug-25	25-Sep-25
- Road Paving and Marking				
E3-4510	E3 Make good surface and apply Waterproofing	18	23-Aug-25	13-Sep-25
E3-4520	E3 Base Course	6	13-Sep-25	20-Sep-25
E3-4530	E3 Gratings and Gullies	18	23-Aug-25	13-Sep-25
E3-4540	E3 Wearing and Friction Course	6	20-Sep-25	27-Sep-25
E3-4550	E3 Road Marking	3	02-Oct-25	06-Oct-25
4.14.6 - Bridge E3 Ground Level Works				
E3-7000	E3 Grd Lev - Reinstatement Works	24	12-Sep-25	11-Oct-25
E3-7050	E3 Grd Lev - Drainage Works	36	01-Aug-25	11-Sep-25
E3-7080	E3 Grd Lev - Drainage OUTFALL_8564K	36	01-Aug-25	11-Sep-25
E3-7100	E3 Grd Lev - DN150 Watermain and Bridge Deck FH	18	15-Aug-25	04-Sep-25
E3-7200	E3 Grd Lev - Landscaping	18	13-Oct-25	03-Nov-25
E3-7250	E3 Grd Lev - Irrigation System	24	04-Oct-25	03-Nov-25
4.15 - Bridge E4				
4.15.5 - U-trough/Ramp Structure				
E4-2825	DS-11 Foundation (right)	30	01-Aug-25	04-Sep-25
E4-2840	E4-03 Ramp U-trough - Walls bay 17-21	22	12-Apr-25 A	26-Aug-25
E4-2850	E4-03 Ramp U-trough - Backfilling/Reinstatement bay 17-21	24	27-Aug-25	23-Sep-25
E4-2854	E4-03 Ramp Ret Wall - Base Slab bay 22-25	5	04-Mar-25 A	06-Aug-25
E4-2858	E4-03 Ramp Ret Wall - Backfilling/Reinstatement bay 22-25	18	03-Sep-25	23-Sep-25
E4-7335	E4-03 Abutment Ret Wall - Backfilling/Reinstatement	18	01-Aug-25	21-Aug-25
E4-7345	E4 Slip Road - Road Formation	12	10-Sep-25	23-Sep-25
E4-7355	E4 Slip Road - Drainage Works	18	24-Sep-25	16-Oct-25
E4-7365	E4 Slip Road - Furniture, Paving & Marking	24	17-Oct-25	14-Nov-25
4.15.6 - Road Works and Furniture				
- Parapet				
E4-3510	E4 Parapet Skin Erection and Cast Kicker (276m @ 20m/day)	3	04-Jun-25 A	23-Sep-25
E4-3530	E4 Parapet Rebar+Cast-in Items (276m @ 20m/day)	3	10-Jun-25 A	30-Sep-25
E5-3540	E4 Parapet Cast Concrete (276m- 4nos 10m-mould @ 3d cycle)	8	03-Jul-25 A	09-Oct-25
- Furnitures and Misc Works				
E4-4500	E4 - Road Furniture	24	10-Oct-25	07-Nov-25
E4-7260	E4 - Road Lighting including Cabling	24	10-Oct-25	07-Nov-25
E4-7275	E4 - Void Drainage	48	29-Sep-25	26-Nov-25
- Road Paving and Marking				
E3-7500	E4 Make good surface and apply Waterproofing	9	10-Oct-25	20-Oct-25
E3-7510	E4 Base Course	3	24-Oct-25	27-Oct-25
E3-7520	E4 Gratings and Gullies	12	10-Oct-25	23-Oct-25
4.15.7 - Bridge E4 Ground Level Works				
E4-7000	E4 Grd Lev - Reinstatement Work	24	10-Oct-25	07-Nov-25
E4-7050	E4 Grd Lev - Drainage Work	24	10-Oct-25	07-Nov-25
E4-7200	E4 Grd Lev - Landscaping	18	24-Oct-25	14-Nov-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

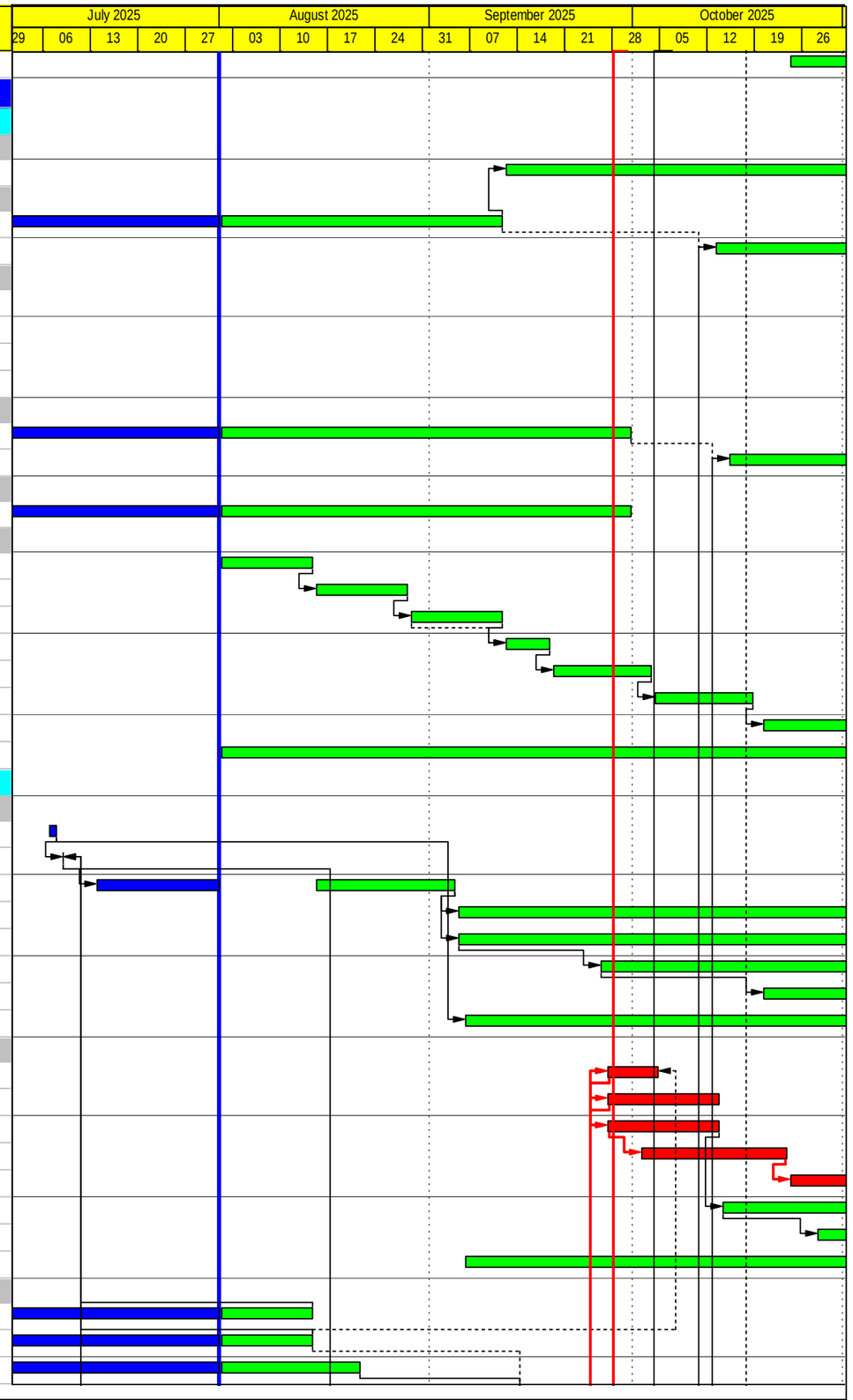
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 6 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
E4-7250	E4 Grd Lev - Irrigation System	18	24-Oct-25	14-Nov-25
5.0 - Fanling Highway Associated Works				
5.1 - Sign Gantry				
5.1.1 - FADS 20				
FHY-1670	FADS 20 - Off-site Fabrication	60	12-Sep-25	24-Nov-25
5.1.2 - DS 21B				
FHY-1700	DS21B - Off-site Fabrication	36	07-Feb-25 A	11-Sep-25
FHY-1710	DS21B - Site Delivery	18	13-Oct-25	03-Nov-25
5.1.3 - DS 20				
FHY-1742	DS 20 - Site Assembly/Install TCSS Equipment	0	20-Jun-25 A	27-Jun-25 A
FHY-1745	DS 20 - TTA Implementation	0	20-Jun-25 A	27-Jun-25 A
FHY-1750	DS 20 - Installation	0	20-Jun-25 A	27-Jun-25 A
FHY-1755	Temporary Sign Removal	0	25-Jun-25 A	27-Jun-25 A
5.1.4 - DS 21A				
FHY-1780	DS21A - Off-site Fabrication	52	01-Jul-25 A	30-Sep-25
FHY-1790	DS21A - Site Delivery	18	15-Oct-25	05-Nov-25
5.1.5 - FADS 21				
FHY-1810	FADS21 - Off-site Fabrication	52	01-Jul-25 A	30-Sep-25
5.1.6 - ADS 21				
FHY-1870	ADS 21 - PC2 H-pile Installation	12	01-Aug-25	14-Aug-25
FHY-1880	ADS 21 - PC2 Pile Cap	12	15-Aug-25	28-Aug-25
FHY-1890	ADS 21 - PC2 Gantry Column	12	29-Aug-25	11-Sep-25
FHY-1900	ADS 21 - TTA Stage 2 Implementation	6	12-Sep-25	18-Sep-25
FHY-1910	ADS 21 - PC1 H-pile Installation	12	19-Sep-25	03-Oct-25
FHY-1920	ADS 21 - PC1 Pile Cap	12	04-Oct-25	18-Oct-25
FHY-1930	ADS 21 - PC1 Gantry Column	12	20-Oct-25	03-Nov-25
FHY-1940	ADS21 - Off-site Fabrication	78	01-Aug-25	03-Nov-25
5.2 - Fanling Highway Noise Barrier				
5.2.1 - Noise Barrier NB108				
FHY-1146	NB108 - TTA TMLG Approval	0	07-Jul-25 A	08-Jul-25 A
FHY-1150	NB108 - TTA Trial Run and Implementation	0	09-Jul-25 A	09-Jul-25 A
FHY-1241	NB108 - Site Clearance and Utiltiy Detection	18	14-Jul-25 A	04-Sep-25
FHY-1242	NB108 - Bay 3-8 Pre-bored H-pile	60	05-Sep-25	17-Nov-25
FHY-1252	NB108 - Bay 9-18 Sheet Piles	48	05-Sep-25	03-Nov-25
FHY-1253	NB108 - Bay 9-18 Excavation	48	26-Sep-25	24-Nov-25
FHY-1255	NB108 - Bay 9-18 Footing	48	20-Oct-25	15-Dec-25
FHY-1318	NB108 - Fabrication and Delivery	120	06-Sep-25	30-Jan-26
5.2.2 - Noise Barrier NB70				
FHY-1435	NB70 - TTA Trial Run and Implementation	6	27-Sep-25	04-Oct-25
FHY-1438	NB70 - Lighting Removal/Install Temporary Lighting	12	27-Sep-25	13-Oct-25
FHY-1440	NB70 - Site Clearance and Utiltiy Detection	12	27-Sep-25	13-Oct-25
FHY-1450	NB70 - Bay 13 ELS - Sheet pile and Excavation	18	02-Oct-25	23-Oct-25
FHY-1460	NB70 - Bay 13 ELS - Footing and Wall	18	24-Oct-25	14-Nov-25
FHY-2020	NB70 - Bay 7-22 Sheet Piles (2 work front)	90	14-Oct-25	30-Jan-26
FHY-2030	NB70 - Bay 7-22 Excavation	90	28-Oct-25	13-Feb-26
FHY-2380	NB70 - Noise Panels Fab and Del	120	06-Sep-25	30-Jan-26
5.2.3 - Noise Barrier NB109				
FHY-1520	NB109 - Bay 5-13 Road Works	12	10-Feb-25 A	14-Aug-25
FHY-1530	NB109 - Bay 14-20 Road Works	12	15-Apr-25 A	14-Aug-25
FHY-1555	NB109 - Fabrication and Delivery	18	31-Oct-24 A	21-Aug-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

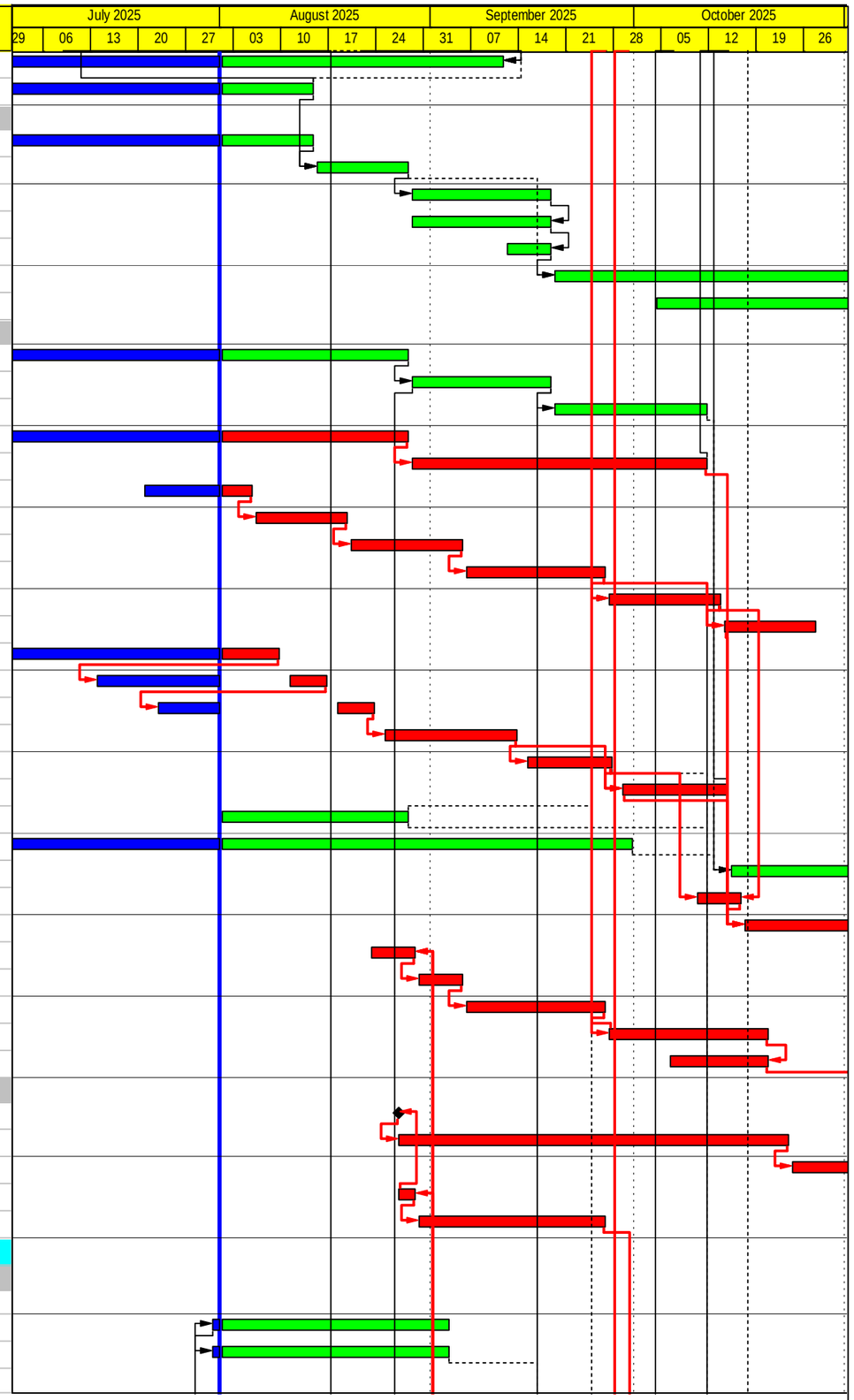
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 7 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
FHY-1560	NB109 - Noise Panel	36	10-Mar-25 A	11-Sep-25
FHY-2500	NB109 - Bay 1-4 Road Works	12	26-Jun-25 A	14-Aug-25
5.2.4 - Noise Barrier NB66				
FHY-1157	NB66 - TTA TMLG Approval	12	21-May-25 A	14-Aug-25
FHY-1160	NB66 -TTA Trial Run and Implementation	12	15-Aug-25	28-Aug-25
FHY-1340	NB66 - Site Clearance and Utiltiy Detection	18	29-Aug-25	18-Sep-25
FHY-1350	NB66 - Pre-drilling	18	29-Aug-25	18-Sep-25
FHY-1360	NB66 - Pre-bored H-pile Set-up	6	12-Sep-25	18-Sep-25
FHY-1370	NB66 - Pre-bored H-pile Installation (26 nos)	66	19-Sep-25	08-Dec-25
FHY-1382	NB66 - Fabrication and Delivery	120	04-Oct-25	02-Mar-26
5.2.5 - Fanling Bypass N/B Slip Road				
TSW-4190	Noise Barrier NB29 U-shaped (bays 1 to 5) - Walls	24	07-Apr-25 A	28-Aug-25
TSW-4195	Noise Barrier NB29 U-shaped (bays 1 to 5) - Backfilling	18	29-Aug-25	18-Sep-25
TSW-4198	Noise Barrier NB29 - Bay 1-5 Stem Wall Profile	18	19-Sep-25	11-Oct-25
TSW-4210	Noise Barrier NB29 U-shaped (bays 6 to 15) - Backfilling & Reinstatement	24	26-Mar-25 A	28-Aug-25
TSW-4215	Reinstate Existing Noise Barrier Near D2-04M	36	29-Aug-25	11-Oct-25
TSW-4220	Noise Barrier NB29 - Bay 22-23 Sheet Piles	4	21-Jul-25 A	05-Aug-25
TSW-4222	Noise Barrier NB29 - Bay 22-23 Excavation	12	06-Aug-25	19-Aug-25
TSW-4225	Noise Barrier NB29 - Bay 22-23 Footing	15	20-Aug-25	05-Sep-25
TSW-4227	Noise Barrier NB29 - Bay 22-23 Stem Wall	18	06-Sep-25	26-Sep-25
TSW-4228	Noise Barrier NB29 - Bay 22-23 Backfilling and Reinstatement	12	27-Sep-25	13-Oct-25
TSW-4229	Noise Barrier NB29 - Bay 20-21 Stem Wall Profile	12	14-Oct-25	27-Oct-25
TSW-4232	Noise Barrier NB29 - Bay 20-21 Sheet Piles	8	30-Jun-25 A	09-Aug-25
TSW-4235	Noise Barrier NB29 - Bay 20-21 Excavation	6	14-Jul-25 A	16-Aug-25
TSW-4237	Noise Barrier NB29 - Bay 20-21 Footing	6	23-Jul-25 A	23-Aug-25
TSW-4238	Noise Barrier NB29 - Bay 20-21 Stem Wall	18	25-Aug-25	13-Sep-25
TSW-4239	Noise Barrier NB29 - Bay 20-21 Backfilling and Reinstatement	12	15-Sep-25	27-Sep-25
TSW-4240	Noise Barrier NB29 - Bay 20-21 Stem Wall Profile	12	29-Sep-25	14-Oct-25
TSW-4255	Noise Barrier NB29 - Bay 16-19 Backfilling and Reinstatement	24	01-Aug-25	28-Aug-25
TSW-4260	Noise Barrier NB29 - Fabrication and Delivery	52	28-Apr-25 A	30-Sep-25
TSW-4265	Noise Barrier NB29 - Noise Panels	30	15-Oct-25	19-Nov-25
TSW-4275	FH N/B Ramp - TTA	6	10-Oct-25	16-Oct-25
TSW-4285	FH N/B Ramp - Drainage and Gullies	30	17-Oct-25	21-Nov-25
TSW-4800	FH N/B Ramp NB30 - TTA	6	23-Aug-25	29-Aug-25
TSW-4810	FH N/B Ramp NB30 - Road Formation	6	30-Aug-25	05-Sep-25
TSW-4820	FH N/B Ramp NB30 - Drainage and Gullies	18	06-Sep-25	26-Sep-25
TSW-4830	FH N/B Ramp NB30 - Roadworks	18	27-Sep-25	20-Oct-25
TSW-4840	FH N/B Ramp NB30 - Road Lighting Including Cabling	12	06-Oct-25	20-Oct-25
5.2.6 - Retaining Wall FW55+3SW-D/C78				
TSW-4900	FH 3SW-D/C78 and RW FW55 - Issue PMI	0		27-Aug-25
TSW-4905	FH 3SW-D/C78 and RW FW55 - Procurement and TTA Approval	48	27-Aug-25	23-Oct-25
TSW-4910	FH 3SW-D/C78 and RW FW55 - Implement TTA	9	24-Oct-25	04-Nov-25
TSW-4950	FH RW FW55 - Implement TTA at TWSRW for Trial Pit	3	27-Aug-25	29-Aug-25
TSW-4955	FH RW FW55 - Trial Pits and Reinstatement at TWSRW	24	30-Aug-25	26-Sep-25
5.3 - Tai Wo Service Road East (TWSR-East)				
5.3.1 - TWSR-East HKY FB Extension				
- Lift Installation				
FBE-1290	HKY FB East Lift - T&C	29	31-Jul-25 A	03-Sep-25
FBE-1295	HKY FB East Lift - Stautory Inspection	29	31-Jul-25 A	03-Sep-25
- HKY FB Extension Deck				



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

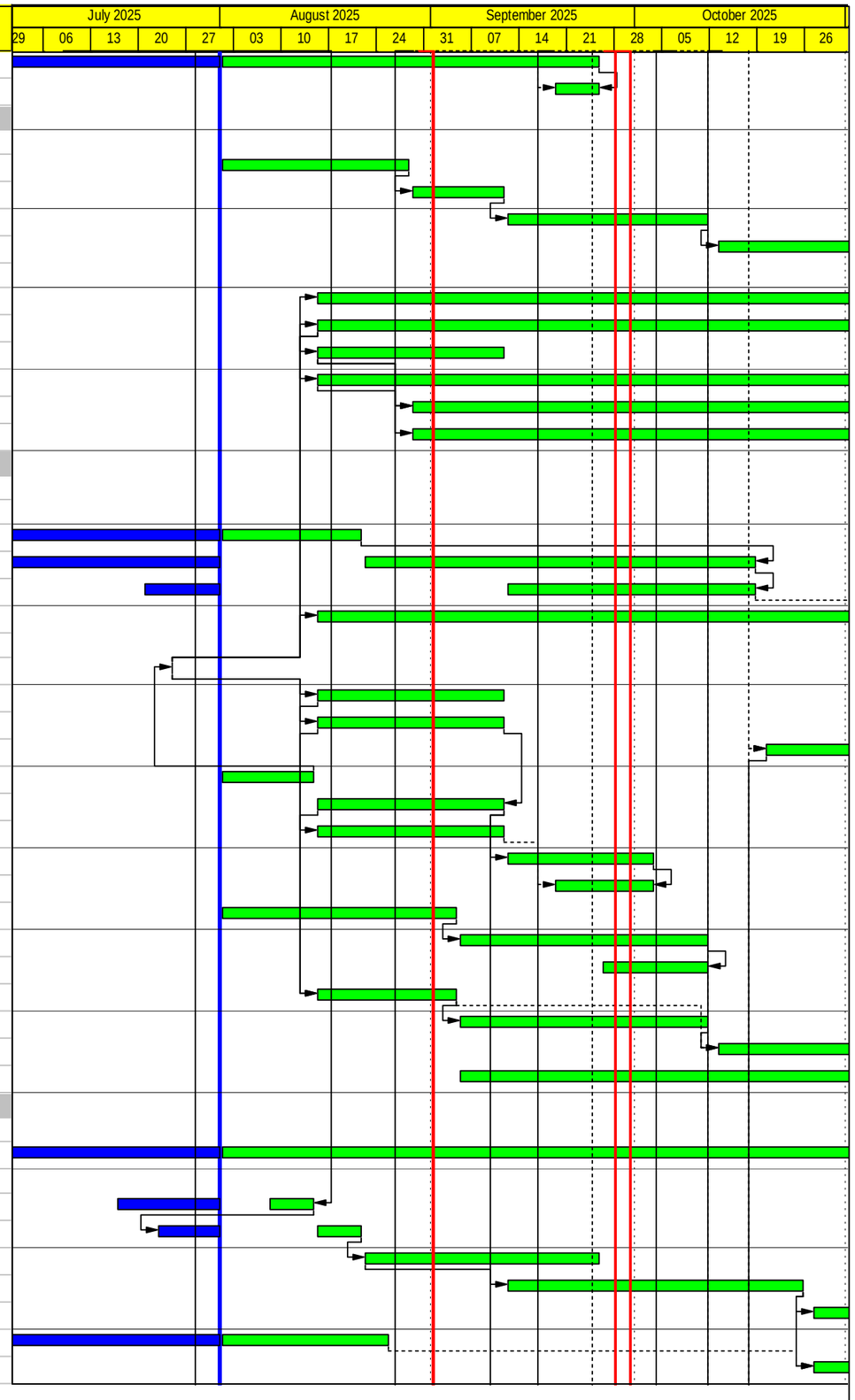
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 8 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
FBE-1355	HKY FB East - ABWF and BS Works	48	02-Jan-24 A	25-Sep-25
FBE-1360	HKY FB East - Open to Public	6	19-Sep-25	25-Sep-25
5.3.2 - TWSR East (1) Adjacent to Cycle Track				
- Ch100 to Ch200				
TSE-2381	TWSR-East Ch100-Ch200 N/B - Road Lighting including Cabling	24	01-Aug-25	28-Aug-25
TSE-2385	TWSR-East Ch100-Ch200 N/B - TIME RISK ALLOWANCE	12	29-Aug-25	11-Sep-25
TSE-2405	TWSR-East Ch100-Ch200 S/B - New Feature FW01 (Fill Slope)	24	12-Sep-25	11-Oct-25
TSE-2421	TWSR-East Ch100-Ch200 S/B - Road Lighting including Cabling	24	13-Oct-25	10-Nov-25
- Ch325 to Ch400				
TSE-2103	TWSR East Ch325-Ch550 - Lighting Removal/Install Temporary Lighting	120	15-Aug-25	08-Jan-26
TSE-2105	TWSR East CH325-Ch550 N/B - Site Formation	120	15-Aug-25	08-Jan-26
TSE-2108	TWSR East CH325-Ch550 N/B - New Feature FS06 Fill Slope	24	15-Aug-25	11-Sep-25
TSE-2110	TWSR East CH325-Ch550 N/B - Drainage and Utilities	112	15-Aug-25	29-Dec-25
TSE-2130	TWSR East CH325-Ch550 N/B - Road Works	112	29-Aug-25	13-Jan-26
TSE-2131	TWSR East CH325-Ch550 N/B - Road Lighting including Cabling	112	29-Aug-25	13-Jan-26
5.3.3 - TWSR-East Bus-Bus Interchange				
- Bus-Bus Interchange Shelter				
- Public Toilet				
BBI-1018	BBI Public Toilet - Lighting+Elec+BS+Fit-out Procurement/Delivery	18	10-Aug-24 A	21-Aug-25
BBI-1100	BBI Public Toilet - BS, Finishing and Fixtures	48	05-Mar-25 A	18-Oct-25
BBI-1120	BBI Public Toilet - Bio-treatment Plant Installation	30	21-Jul-25 A	18-Oct-25
BBI-1250	BBI Covered Walkway - Remaining Works	72	15-Aug-25	10-Nov-25
- TWSR East (2) BBI Exit to Fanling Highway				
BBI-1585	BBI - TTA Stage 5 - Divert BBI Traffic Back to Road D400	0	25-Jul-25 A	25-Jul-25 A
BBI-1590	BBI Exit to FH - New Feature FS02 (Fill Slope)	24	15-Aug-25	11-Sep-25
BBI-1595	BBI Exit to FH - New Feature FS03 (Fill Slope)	24	15-Aug-25	11-Sep-25
BBI-1692	Road D400 Ch100-Ch300 - Site Formation	18	20-Oct-25	10-Nov-25
BBI-1708	Road D400 Ch300-Ch430 - Road Lighting including Cabling	12	01-Aug-25	14-Aug-25
BBI-1710	Road D400 Ch450-Ch550 - Drainage, Sewerage and Utilities	24	15-Aug-25	11-Sep-25
BBI-1715	E-DS64 Sign Temporary Relocation	24	15-Aug-25	11-Sep-25
BBI-1720	Road D400 Ch450-Ch550 - Roadworks and Furniture	18	12-Sep-25	03-Oct-25
BBI-1730	Road D400 Ch450-Ch550 - Road Lighting including Cabling	12	19-Sep-25	03-Oct-25
BBI-1732	Road D400 Ch500-Ch600 Adj to NB110 - Drainage, Sewerage and Utilities	30	01-Aug-25	04-Sep-25
BBI-1734	Road D400 Ch500-Ch600 Adj to NB110 - Roadworks and Furniture	30	05-Sep-25	11-Oct-25
BBI-1736	Road D400 Ch500-Ch600 Adj to NB110 - Road Lighting including Cabling	12	26-Sep-25	11-Oct-25
BBI-1740	Road D400 Ch430-Ch450 - Site Formation	18	15-Aug-25	04-Sep-25
BBI-1745	Road D400 Ch430-Ch450 - Drainage, Sewerage and Utilities	30	05-Sep-25	11-Oct-25
BBI-1750	Road D400 Ch430-Ch450 - Roadworks and Furniture	30	13-Oct-25	17-Nov-25
BBI-1773	Sign Gantry E-FADS 11, E-DS64 and DS-11 Off site Fabrication and Delivery	90	05-Sep-25	22-Dec-25
5.3.5 - TWSR-East Noise Barrier				
- Noise Barrier NB110 (Typ FV3)				
TSE-1368	Noise Barrier NB110 - Fabrication and Delivery	94	01-Jul-25 A	21-Nov-25
- Noise Barrier NB68				
TSE-1435	Noise Barrier NB68 - Sheet Piling (8 bays)	6	17-Jul-25 A	14-Aug-25
TSE-1440	Noise Barrier NB68 - Excavation (8 bays)	6	23-Jul-25 A	21-Aug-25
TSE-1445	Noise Barrier NB68 - Footing (8 bays)	30	22-Aug-25	25-Sep-25
TSE-1455	Noise Barrier NB68 - Stem Wall (8 bays)	36	12-Sep-25	25-Oct-25
TSE-1460	Noise Barrier NB68 - Backfilling and Reinstatement (8 bays)	12	27-Oct-25	10-Nov-25
TSE-1568	Noise Barrier NB68 - Fabrication and Delivery	21	28-Apr-25 A	25-Aug-25
TSE-1570	Noise Barrier NB68 - Noise Panel (8 bays)	30	27-Oct-25	01-Dec-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

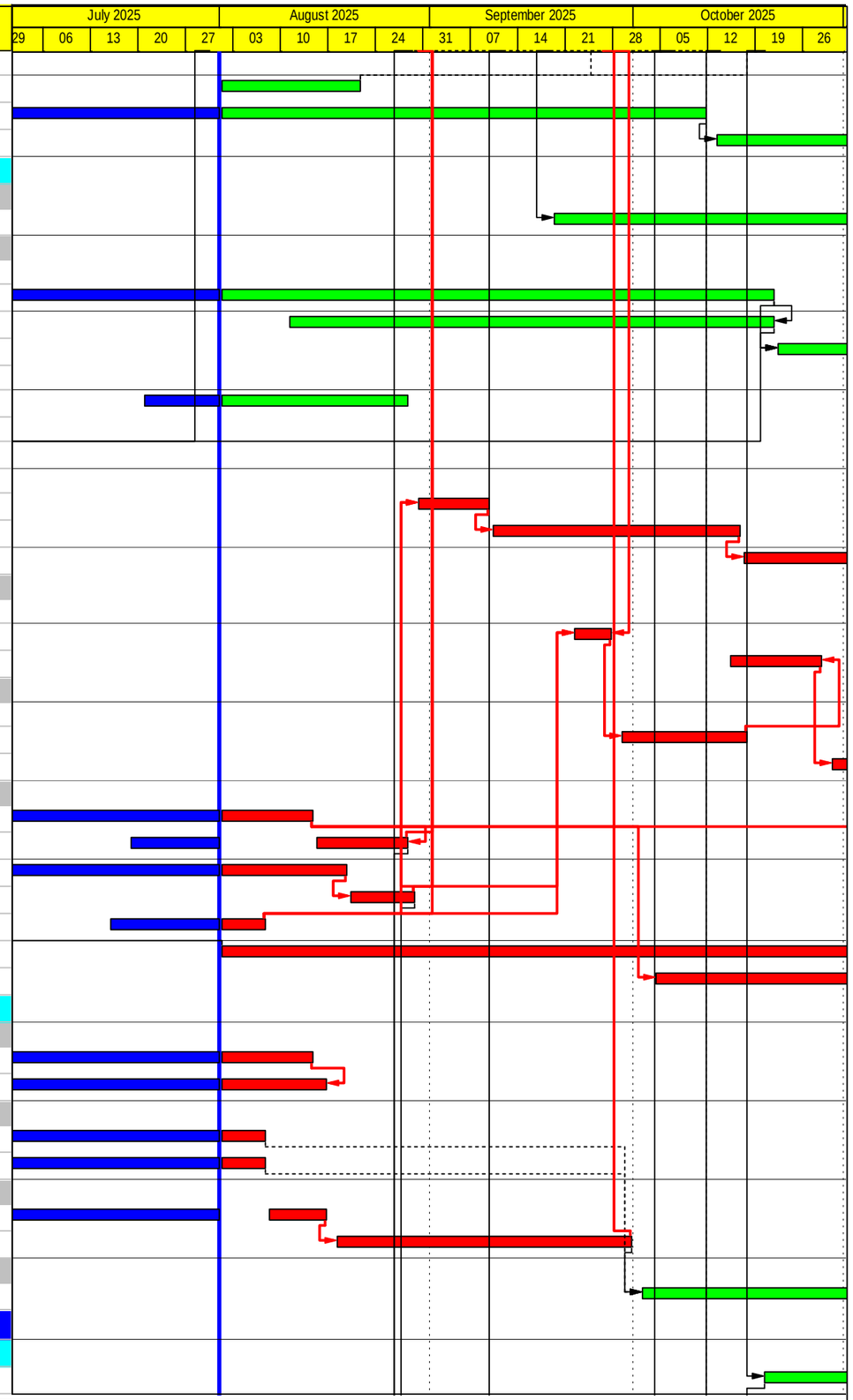
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 9 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Noise Barrier NB69				
TSE-1476	Noise Barrier NB69 - Bay 1-2 Backfilling and Reinstatement	18	01-Aug-25	21-Aug-25
TSE-1565	Noise Barrier NB69 - Fabrication and Delivery	60	28-Apr-25 A	11-Oct-25
TSE-1580	Noise Barrier NB69 - Noise Panel Bays 1-10	48	13-Oct-25	08-Dec-25
5.4 - Tai Wo Service Road West (TWSR-West)				
5.4.2 - TWSR-West Ch000 to Ch200				
TSW-4112	TWSRW Ch0-Ch150 N/B - Roadworks+Footpath TTA Stage 7A	60	19-Sep-25	01-Dec-25
5.4.4 - TWSR-West Ch450 to Ch600				
- Lift				
TSW-4560	HKYFB West - Lift & FB BS, ABWF and Finishing	68	22-May-25 A	21-Oct-25
TSW-4580	HKYFB West - Lift Installation	60	11-Aug-25	21-Oct-25
TSW-4585	HKYFB West - Lift T&C & Statutory Inspection	48	22-Oct-25	17-Dec-25
- Stairs				
TSW-4632	HKY-AB2 / NB2 / NB1 Walls	24	21-Jul-25 A	28-Aug-25
- Power Supply for HKFB Extension				
FBE-1420	HKYFB East - Power Connection and Power On	0	23-Jun-25 A	30-Jun-25 A
- Road works				
TSW-3133	TWSRW TTA Stage 4A (2-lane 2-way) - shift 2 lanes Ch400-Ch600 to NB30	9	30-Aug-25	09-Sep-25
TSW-3135	TWSRW Ch450-Ch550 Drainage 1350dia. - SMH FL9103 to SMH9102	30	10-Sep-25	16-Oct-25
TSW-3136	TWSRW Ch450-Ch550 Drainage 750dia. - SMH FL9102 to existing MH	32	17-Oct-25	24-Nov-25
5.4.5 - TWSR-West Ch600 to Ch800				
- Ch600 to Ch800 Road Works				
TSW-1605	TWSRW TTA Stage 8A (1-Lane 2-Way S/B Ch600-Ch800 @ 50m section)	6	22-Sep-25	27-Sep-25
TSW-1620	TWSRW S/B Ch600-CH650 Roadworks	12	15-Oct-25	28-Oct-25
5.4.6 - Existing Utility Diversion				
- Watermain Diversion Stage 2				
TSW-8715	TWSRW Watermain Ch600-Ch650	15	29-Sep-25	17-Oct-25
TSW-8720	TWSRW Watermain Ch650-Ch700	15	30-Oct-25	15-Nov-25
5.4.7 - TWSR Noise Barrier				
TSW-1290	NB30 - Bay 13-20 - Pile Caps & Walls	12	17-Mar-25 A	14-Aug-25
TSW-1292	NB30 - Bay 13-20 - Backfilling & Reinstatement	12	19-Jul-25 A	28-Aug-25
TSW-1335	NB30 - Bay 7-12 - Pile Caps & Walls	16	29-May-25 A	19-Aug-25
TSW-1340	NB30 - Bay 7-12 - Backfilling and Reinstatement	9	20-Aug-25	29-Aug-25
TSW-1410	NB30 - Bay 1-6- Backfilling and Reinstatement	6	16-Jul-25 A	07-Aug-25
TSW-1450	NB30 - Fabrication and Delivery	78	01-Aug-25	03-Nov-25
TSW-1455	NB30 - Noise Panel Installation	48	04-Oct-25	01-Dec-25
5.5 - Jockey Club Road				
5.5.3 - TTA Stage 2				
JCR-2210	THV Junction N/B - Road/Footpath Paving and Road Marking	12	27-Jan-25 A	14-Aug-25
JCR-2215	THV Junction N/B - Road Lighting	14	25-Jun-25 A	16-Aug-25
5.5.4 - TTA Stage 3				
JCR-2725	THV Island - S/B Traffic Signal Duct and Utilities & Drainage	6	29-Aug-24 A	07-Aug-25
JCR-2735	JCR N/B - Slope F63 Rem Works, Street Furniture & PMI 258 Water Works	6	16-Jul-24 A	07-Aug-25
5.5.5 - TTA Stage 4				
JCR-2620	JCR S/B and N/B - Resurfacing and Road Marking & Detection Loop	8	21-May-25 A	16-Aug-25
JCR-2745	THV - Re-levelling Concrete +Bitumin Paving & Detection Loop	38	18-Aug-25	30-Sep-25
5.5.6 - Landscaping				
JCR-1120	JCR - Landscaping	72	02-Oct-25	29-Dec-25
6.0 - TCSS Works				
6.2 - Key Date 3A and Section 9A				
TCS-332	Section 9A TCSS - Ducts/Drawpit at Road D400 Ch175 to Ch300	36	20-Oct-25	01-Dec-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

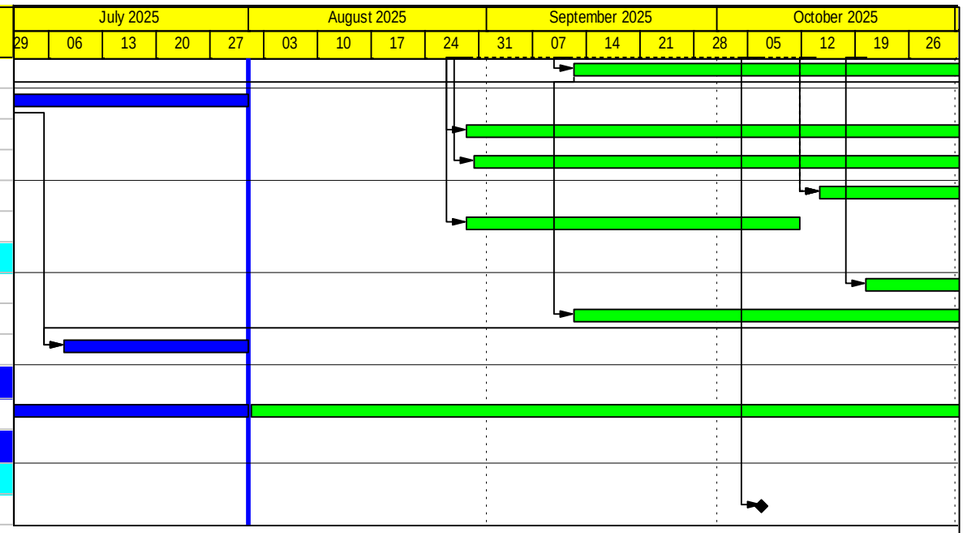
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 10 of 11

3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
TCS-333	Section 9A TCSS - Ducts/Drawpit at Road D400 Ch300 to Ch500	60	12-Sep-25	24-Nov-25
TCS-334	Section 9A TCSS - Equipment at DS 20	15	27-Jun-25 A	11-Dec-25
TCS-341	Section 9A TCSS - Ducts/Drawpit TW SRW Ch600 to Ch800	72	29-Aug-25	24-Nov-25
TCS-342	Section 9A TCSS - Ducts/Drawpit TW SRW Ch450 to Ch600	60	30-Aug-25	11-Nov-25
TCS-343	Section 9A TCSS - Ducts/Drawpit TW SRW Ch250 to Ch450	72	14-Oct-25	09-Jan-26
TCS-344	Section 9A TCSS - Ducts/Drawpit TW SRW Ch100 to Ch250	36	29-Aug-25	11-Oct-25
6.4 - Section 9C				
TCS-452	Section 9C TCSS - Ducts/Drawpit at Road D400 Ch175 to Ch300	36	20-Oct-25	01-Dec-25
TCS-453	Section 9C TCSS - Ducts/Drawpit at Road D400 Ch300 to Ch500	60	12-Sep-25	24-Nov-25
TCS-454	Section 9C TCSS - Equipment at DS 20	12	08-Jul-25 A	08-Dec-25
7.0 - Miscellaneous Works				
MIS-100	Preservation and Protection of Trees	116	28-Oct-20 A	17-Dec-25
EXECUTIVE SUMMARY				
Section 4				
S100	Section 4 PLAN COMPLETION	0		06-Oct-25



CRCC - Paul Y. Joint Venture

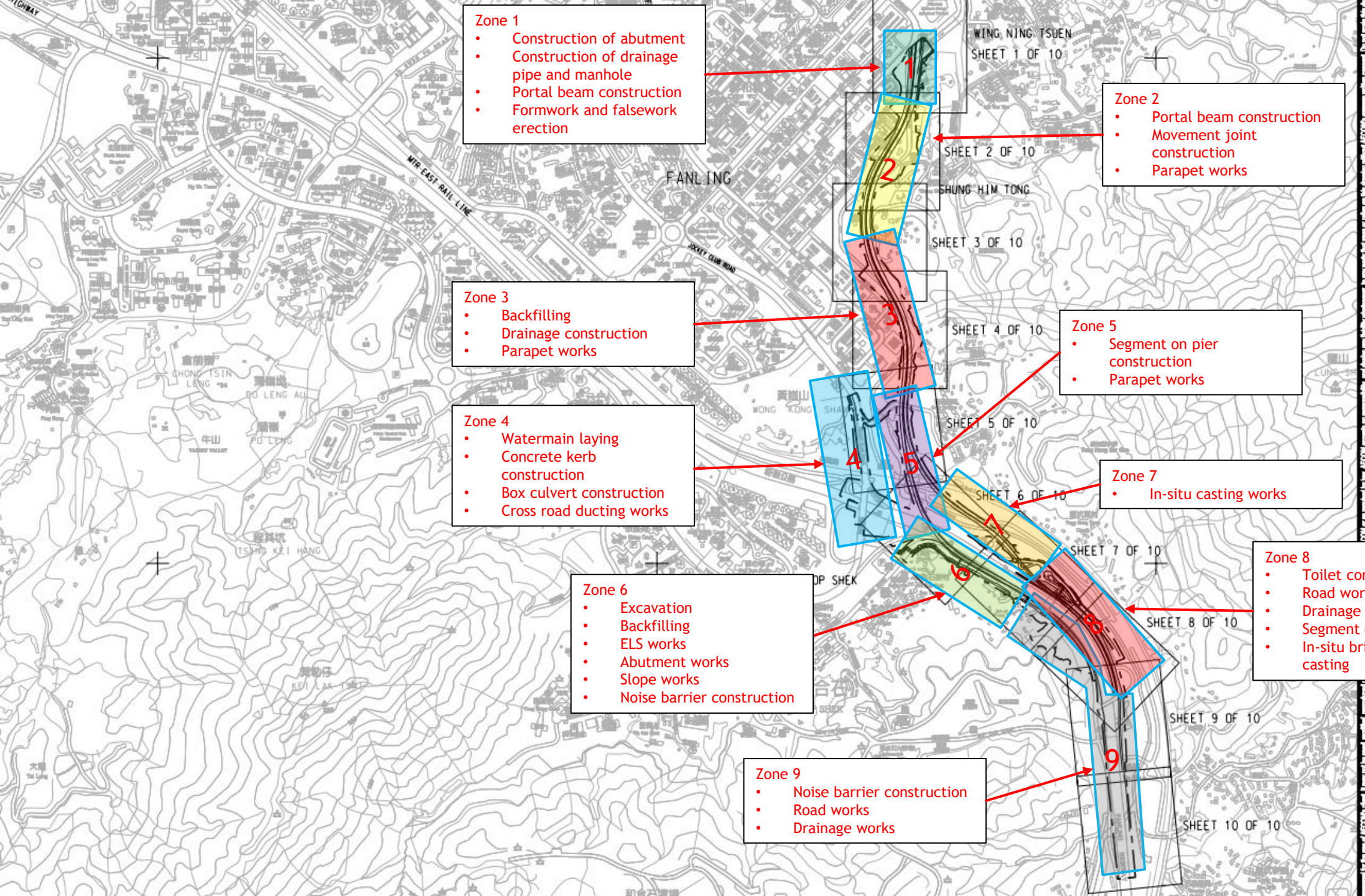
Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRP
No.65
Layout : 3MRP
Date : 07-Aug-25 / Page 11 of 11

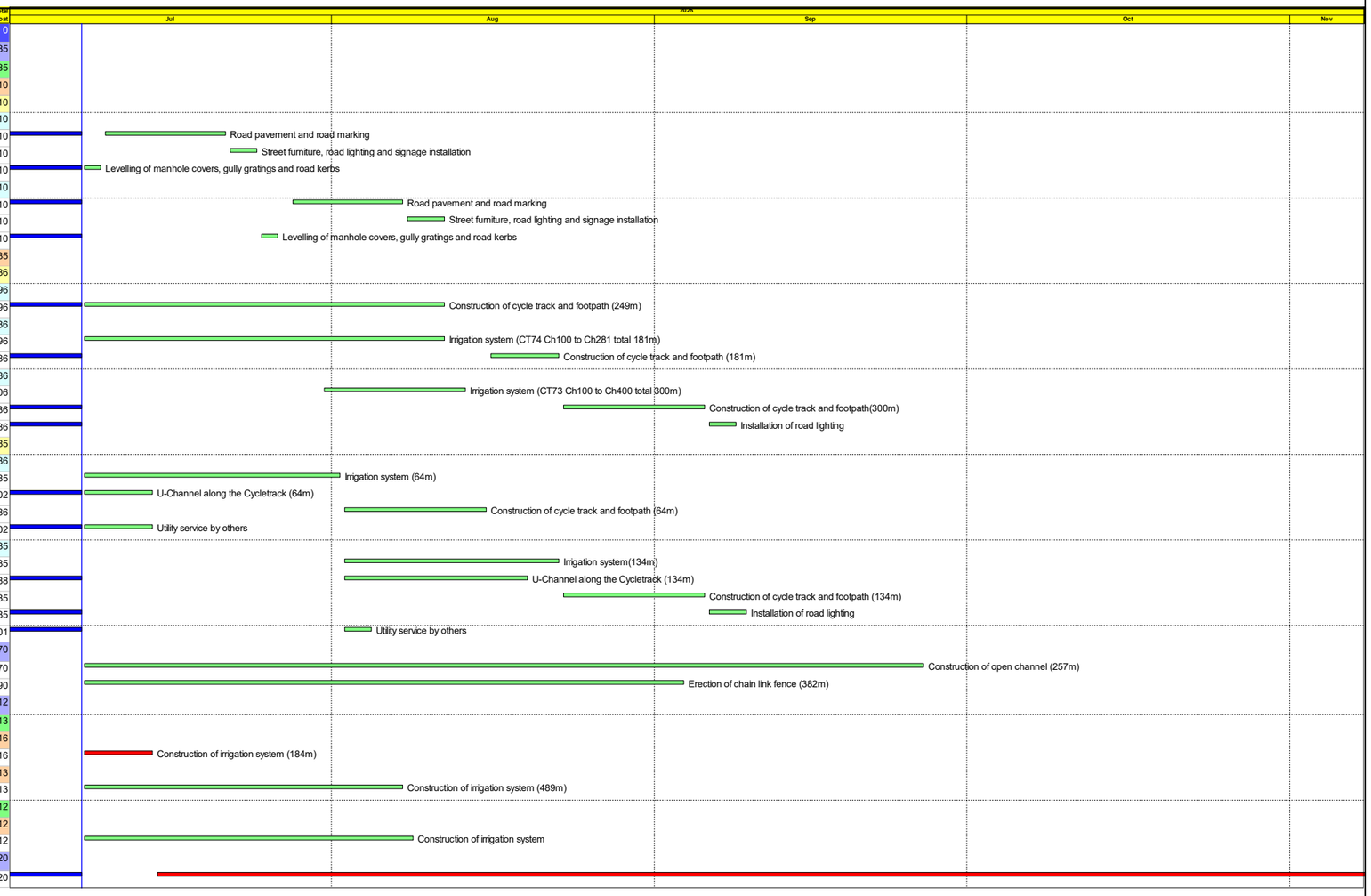
3MRP			
Date	Revision	Check...	Approved
01-Aug-25	3MRP		


Zone 1
• Construction of abutment
• Construction of drainage pipe and manhole
• Portal beam construction
• Formwork and falsework erection
Zone 2
• Portal beam construction
• Movement joint construction
• Parapet works
Zone 3
• Backfilling
• Drainage construction
• Parapet works
Zone 4
• Watermain laying
• Concrete kerb construction
• Box culvert construction
• Cross road ducting works
Zone 5
• Segment on pier construction
• Parapet works
Zone 6
• Excavation
• Backfilling
• ELS works
• Abutment works
• Slope works
• Noise barrier construction
Zone 7
• In-situ casting works
Zone 8
• Toilet construction
• Road works
• Drainage works
• Segment erection
• In-situ bridge segment casting
Zone 9
• Noise barrier construction
• Road works
• Drainage works
WING NING TSUEN
SHEET 1 OF 10
SHEET 2 OF 10
SHUNG HIM TONG
SHEET 3 OF 10
SHEET 4 OF 10
SHEET 5 OF 10
SHEET 6 OF 10
SHEET 7 OF 10
SHEET 8 OF 10
SHEET 9 OF 10
SHEET 10 OF 10
FANLING
MTR EAST RAIL LINE
CONSULTANT
AECOM Asia Company Ltd.
www.aecom.com
SUB-CONSULTANTS
ISSUE/REVISION
- JUN-19 TENDER DRAWING RPCM
STATUS
SCALE
DIMENSION UNIT
METRES
PROJECT NO.
60335576
CONTRACT NO.
ND/2019/05
SHEET TITLE
KEY PLAN AND LOCATION PLAN

Construction Programme of ND/2019/07

Contract No. ND/2019/07 Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works		354	11-Nov-24 A	28-Apr-26	0
Section 1- Site Formation and Infrastructure Works in Area A		150	11-Nov-24 A	09-Sep-25	185
Drainage, Sewerage, Waterworks and Road Works		150	11-Nov-24 A	09-Sep-25	185
Along Ma Sik Road		116	20-Mar-25 A	11-Aug-25	210
Low noise road surfacing on existing concrete carriageway		116	20-Mar-25 A	11-Aug-25	210
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary		101	20-Mar-25 A	24-Jul-25	210
S1-CS1300	Road pavement and road marking	10	22-Mar-25 A	21-Jul-25	210
S1-CS1305	Street furniture, road lighting and signage installation	3	22-Jul-25	24-Jul-25	210
S1-CS2525	Levelling of manhole covers, gully gratings and road kerbs	2	20-Mar-25 A	09-Jul-25	210
TTA - Closure of Ma Sik Road Eastbound Fast Lane for water main works		100	22-Mar-25 A	11-Aug-25	210
S1-CS1760	Road pavement and road marking	10	24-Mar-25 A	07-Aug-25	210
S1-CS1770	Street furniture, road lighting and signage installation	3	08-Aug-25	11-Aug-25	210
S1-CS2535	Levelling of manhole covers, gully gratings and road kerbs	2	22-Mar-25 A	26-Jul-25	210
Along Proposed Cycletrack and Footpath		150	11-Nov-24 A	09-Sep-25	185
Works in Portion I		118	11-Nov-24 A	08-Sep-25	186
Works in Portion I CT73 (Ch400 to Ch649)		30	08-May-25 A	11-Aug-25	196
S1-CS1480	Construction of cycle track and footpath (249m)	30	08-May-25 A	11-Aug-25	196
Works in Portion I CT74		116	08-Feb-25 A	22-Aug-25	186
S1-CS1491	Irrigation system (CT74 Ch100 to Ch281 total 181m)	30	08-Jul-25	11-Aug-25	196
S1-CS1497	Construction of cycle track and footpath (181m)	12	08-Feb-25 A	22-Aug-25	186
Works in Portion I CT73 (Ch100 to Ch400)		106	11-Nov-24 A	08-Sep-25	186
S1-CS1481	Irrigation system (CT73 Ch100 to Ch400 total 300m)	12	31-Jul-25	13-Aug-25	206
S1-CS1500	Construction of cycle track and footpath(300m)	24	08-Feb-25 A	05-Sep-25	186
S1-CS1505	Installation of road lighting	20	11-Nov-24 A	08-Sep-25	186
Works in Portion III CT76 (Ch100 to Ch298.277)		150	08-Feb-25 A	09-Sep-25	185
Remaining Works (next to Portion V - approx 64m)		130	08-Mar-25 A	15-Aug-25	186
S1-CS1580-1	Irrigation system (64m)	22	08-Jul-25	01-Aug-25	185
S1-CS1610-1	U-Channel along the Cycletrack (64m)	22	08-Mar-25 A	14-Jul-25	202
S1-CS1620-1	Construction of cycle track and footpath (64m)	12	02-Aug-25	15-Aug-25	186
S5-RD1660	Utility service by others	22	08-Apr-25 A	14-Jul-25	202
Remaining Works (after KD1)		150	08-Feb-25 A	09-Sep-25	185
S1-CS1580-2	Irrigation system(134m)	18	02-Aug-25	22-Aug-25	185
S1-CS1610-2	U-Channel along the Cycletrack (134m)	18	08-Feb-25 A	19-Aug-25	188
S1-CS1620-2	Construction of cycle track and footpath (134m)	12	23-Aug-25	05-Sep-25	185
S1-CS1650-2	Installation of road lighting	9	10-Apr-25 A	09-Sep-25	185
S5-RD1670	Utility service by others	18	08-Apr-25 A	04-Aug-25	201
Section 4- Site Formation and Infrastructure Works in Area D		70	08-Jul-25	26-Sep-25	170
S4-SF1125	Construction of open channel (257m)	70	08-Jul-25	26-Sep-25	170
S4-SF1140	Erection of chain link fence (382m)	50	08-Jul-25	03-Sep-25	190
Section 5- Site Formation and Infrastructure Works in Area E and Remainder of the Works		28	08-Jul-25	08-Aug-25	212
Road L1		27	08-Jul-25	07-Aug-25	213
Road L1 in Portion V (P600 CH100 to CH194)		6	08-Jul-25	14-Jul-25	-16
S5-RD1360	Construction of irrigation system (184m)	6	08-Jul-25	14-Jul-25	-16
Road L1 in Portion IV (P600 CH194 to CH393, P700 CH100 to CH175)		27	08-Jul-25	07-Aug-25	213
S5-RD1185	Construction of irrigation system (489m)	27	08-Jul-25	07-Aug-25	213
Road L2		28	08-Jul-25	08-Aug-25	212
Stage 4		28	08-Jul-25	08-Aug-25	212
S5-RD1505	Construction of irrigation system	28	08-Jul-25	08-Aug-25	212
Section 8- Completion of Establishment Works for All Works in Section 7		320	07-Apr-25 A	28-Apr-26	-20
S8-CS1020	Establishment Works	320	07-Apr-25 A	28-Apr-26	-20

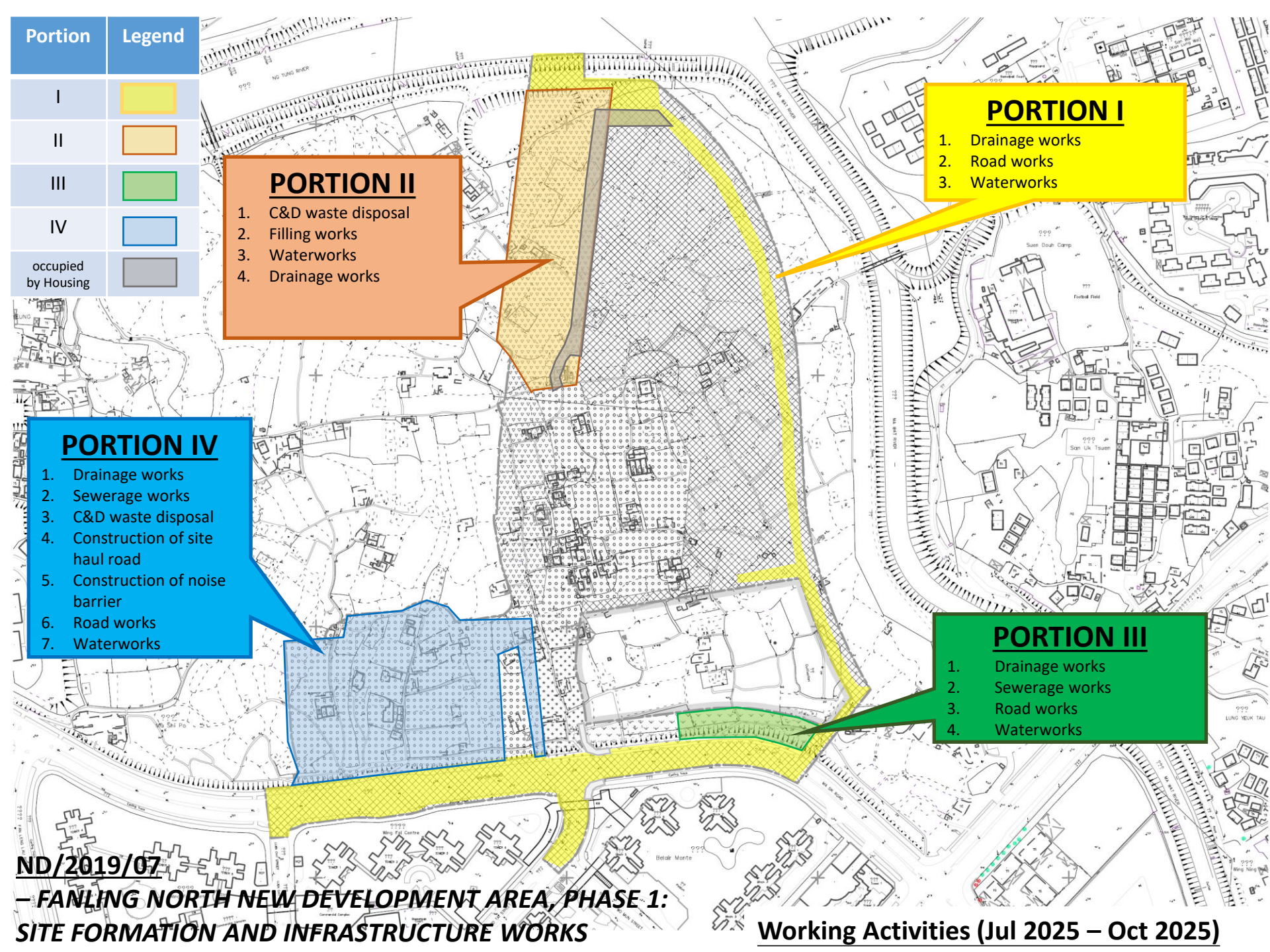


Actual Work
Remaining Work
Critical Remaining Work
Milestone

中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Jul-25)

Date	Revision	Checked	Approved
08-Jul-25	RDWPH	ST	MC



ND/2019/07

– FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

Working Activities (Jul 2025 – Oct 2025)

APPENDIX B
ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for 1-hour TSP

Monitoring station	Action Level (ug/m^3)	Limit Level (ug/m^3)
FLN-DMS1	303	500
FLN-DMS3	301	
FLN-DMS5	279	
KTN-DMS4	297	

Table B-2 Action and Limit Levels for 24-hour TSP

Monitoring station	Action Level (ug/m^3)	Limit Level (ug/m^3)
FLN-DMS1	150	260
FLN-DMS3	165	
FLN-DMS5A	153	
KTN-DMS4	192	

Table B-3 Action and Limit Levels for Construction Noise

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

Noted:
If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
(*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Table B-4.1 Action and Limit Levels for Water Quality Monitoring(1)

Parameters	Action Level	Limit Level
DO in mg/L (depth average)#+	5 percentile of baseline data.	4 mg/L or 1 percentile of baseline data.
SS in mg/L (depth averaged)*&	95 percentile of baseline data or 120% of upstream control station.	20 mg/L or 99 percentile of baseline data or 130% of upstream control station.
Turbidity in NTU (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.
Unionized ammonia in mg/L (depth averaged)*~	95 percentile of baseline data or 120% of upstream control station.	0.021mg/L or 99 percentile of baseline data or 130% of upstream control station.

Nitrate nitrogen in mg/L (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.
Orthophosphate in mg/L (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.

Remarks:
AL of DO is 5 percentile of baseline data or level at control station at same tide of the same day (whichever lower) and LL of DO is 4.0 mg/L or level at control station at same tide of the same day (whichever lower);
+ 1 percentile of baseline data were adopted for LL for DO as those levels were greater than 4 mg/L;
* AL is 120% of control station's level at the same tide of the same day when depth average greater than 95 percentile of baseline data;
^ LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data.
~ LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data or 0.021mg/L.
& LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data or 20mg/L.

Table B-4.2 Summary of Baseline Water Quality Monitoring Results (KTN NDA)(1)

Monitoring Parameter					
Location / **Parameter**	KTN-CS1				
	Max	Min	Average	5 Percentile	1 Percentile
DO in mg/L	7.79	6.28	6.82	6.32	6.28
	Max	Min	Average	95 Percentile	99 Percentile
Turbidity in NTU	72.4	4.59	10.88	62.2	72.2
Suspended Solid in mg/L	74	2	9	60	73
Unionized ammonia in mg/L	0.0005	0.0001	0.0003	0.0004	0.0005
Nitrate nitrogen in mg/L	0.52	0.09	0.27	0.50	0.52
Orthophosphate in mg/L	0.19	0.01	0.10	0.17	0.19

Monitoring Parameter					
Location / **Parameter**	KTN-IS1				
	Max	Min	Average	5 Percentile	1 Percentile
DO in mg/L	8.08	4.71	6.83	6.14	5.02
	Max	Min	Average	95 Percentile	99 Percentile
Turbidity in NTU	44.56	4.57	8.63	38.98	44.56

Suspended Solid in mg/L	35	2	6	31	35
Unionized ammonia in mg/L	0.0006	0.0001	0.0004	0.0005	0.0006
Nitrate nitrogen in mg/L	0.57	0.09	0.29	0.54	0.57
Orthophosphate in mg/L	0.14	0.03	0.09	0.13	0.14

Note:
(1) The Action and Limit Levels for Water Quality Monitoring and the Summary of Baseline Water Quality Monitoring Results are according to pre-construction ET's Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA).

Table B-4.3 Action and Limit Levels for Additional Water Quality Monitoring

Parameters	Action Level	Limit Level
River Beas (SYR-IS1)		
DO in mg/L (depth average) [1]	SYR-IS1: ***6.1*** [2]	SYR-IS1: ***6.0*** [2]
SS in mg/L (depth average) [1]	SYR-IS1: ***75.6*** or 120% of upstream control station, whichever is higher[3]	SYR-IS1: ***83.1*** or 130% of upstream control station, whichever is higher[3]
Turbidity in NTU (depth average) [1]	SYR-IS1: ***48.2*** or 120% of upstream control station, whichever is higher[3]	SYR-IS1: ***50.9*** or 130% of upstream control station, whichever is higher[3]
Arsenic in µg/L (depth average) [2]	SYR-IS1: ***5.4*** or 120% of upstream control station, whichever is higher [3]	SYR-IS1: 50 µg/L [4]
River Indus and near Siu Hang San Tsuen Stream (NTR-IS1, SHST-IS2, MWR-IS3)		
DO in mg/L (depth average) [1]	NTR-IS1: ***5.8*** [2] SHST-IS2: ***7.0*** [2] MWR-IS3: ***8.6*** [2]	NTR-IS1: ***5.7*** [2] SHST-IS2: ***6.8*** [2] MWR-IS3: ***8.5*** [2]
SS in mg/L (depth average) [1]	NTR-IS1: ***8.9*** SHST-IS2: ***4.0*** MWR-IS3: ***14.0*** or 120% of upstream control station, whichever is higher[3]	NTR-IS1: ***9.0*** SHST-IS2: ***4.0*** MWR-IS3: ***14.4*** or 130% of upstream control station, whichever is higher[3]
Turbidity in NTU (depth average) [1]	NTR-IS1: ***6.0*** SHST-IS2: ***4.4*** MWR-IS3: ***10.1*** or 120% of upstream control station, whichever is higher[3]	NTR-IS1: ***6.1*** SHST-IS2: ***4.7*** MWR-IS3: ***11.1*** or 130% of upstream control station, whichever is higher[3]

Remarks:
[1] "Depth-averaged" is calculated by taking the arithmetic mean of reading of all three depths.
[2] For DO, non-compliance occurs when monitoring results is lower than the limits.
[3] For turbidity, SS and arsenic, non-compliance occurs when monitoring results is larger than the limits.
[4] There is no local criterion for heavy metal. Limit Level of heavy metal is adopted from Category III Surface Water Quality Standards (GB3838-2002) (地表水環境質量標準), which applicable for Shenzhen River on mainland side.

Table B-5 Action and Limit Levels for Ambient Arsenic Monitoring

Parameter	Action Level	Limit Level
Ambient Arsenic Concentration	**9.36ng/m^3** - 80% of 11.7ng/m3 – the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented)	**11.7ng/m^3** - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

Table B-6 Action level in the event of LFG being detected

Parameter	Monitoring Results	Actions
O_2	<19% v/v	Increase underground ventilation to restore O_2 to >19% v/v
	<18% v/v	Stop works, evacuate all personnel, prohibit entry, and increase ventilation to restore O_2 level to >19%
CH_4	>10% LEL	Prohibit hot works, increase ventilation to restore CH4 to <10% LEL
	>20% LEL	Stop works, evacuate all personnel, increase ventilation further to restore CH_4 to <10% LEL
CO_2	>0.5% v/v	Increase ventilation to restore C O_2 to <0.5% v/v
	>1.5% v/v	Stop works, evacuate all personnel, increase ventilation further to restore CO_2 to <0.5%

Table B-7 Vibration Limit for Construction Vibration Monitoring

Type of Building	Guide Values of Maximum PPV* (mm/Sec)	
	Transient Vibration	Continuous Vibration
Vibration-sensitive / dilapidated buildings#	7.5	3.0
Declared monuments/ Historical structures	3.0	

Table B-8.1 Action and Limit Levels for Avifauna Monitoring and General Site Inspection in the LVNP during Construction Phase – July

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	341	244
Mean abundance of *Ardeola bacchus*	16	12
General site inspection	Activity likely to cause unacceptable environmental disturbance or damage	Activity causing unacceptable environmental disturbance or damage

Table B-8.2 Action and Limit Levels of Disturbance to Waterbirds using in Ng Tung, Sheung Yue and Shek Sheung Rivers– July

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	9	6
Mean abundance of *Ardeola bacchus*	6	5
*Large waterbirds: *Ardea alba, Ardea cinerea, Ardea intermedia, Egretta eulophotes, Egretta garzetta* and *Phalacrocorax carbo*		

Table B-8.3Action and Limit Levels of Declines in Aquatic Fauna– July

Monitoring Station		Action Level (Species richness of native species)	Limit Level (Species richness of native species)
MS_01	Macroinvertebrates	NA	NA
	Fish	NA	1
MS_02 & MS_03	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_04, MS_06 & MS_07	Macroinvertebrates	NA	1
	Fish	NA	NA
MS_05	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_08, MS_09 & MS_10	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_11	Macroinvertebrates	NA	1
	Fish	NA	NA
MS_12	Macroinvertebrates	NA	NA

Monitoring Station		Action Level (Species richness of native species)	Limit Level (Species richness of native species)
	Fish	NA	1
MS_13 & MS_14	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_15	Macroinvertebrates	NA	NA
	Fish	NA	NA

Table B-8.4 Action and Limit Levels of Declines in the Seasonal Non-aquatic Fauna (Herptofauna, Butterfly and Odonates) in Ecologically Sensitive Habitats– July

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of herpetofauna	T1	6	5
	T3	5	4
	T4	4	3
	T5	NA	1
	T6	5	4
Monthly species richness of butterflies	T1	20	14
	T3	8	6
	T4	9	7
	T5	6	4
	T6	11	8
Month species richness of native species of odonates	T1	13	9
	T3	9	7
	T4	4	3
	T5	2	1
	T6	7	5

Table B-8.5 Action and Limit Levels of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats– July

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of mammals	T1	NA	NA
	T3	NA	NA
	T4	NA	NA

	T5	NA	NA
	T6	NA	NA

APPENDIX C
COPIES OF CALIBRATION CERTIFCATES

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42298
Date of Issue:	2025-05-12
Date Received:	2025-05-09
Date Tested:	2025-05-09
Date Completed:	2025-05-12
Next Due Date:	2025-07-11
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23807
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-01

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.226

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-01	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23807	2203
Calibration Date:	9-May-25	9-May-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu g/m^3$) **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	16	25
2	32	42
3	49	63
4	65	77
5	92	104
Average	**50.7**	**62.2**

By Linear Regression of Y on X

Slope , mw = **1.0448** **Intercept, bw =** **9.2063**

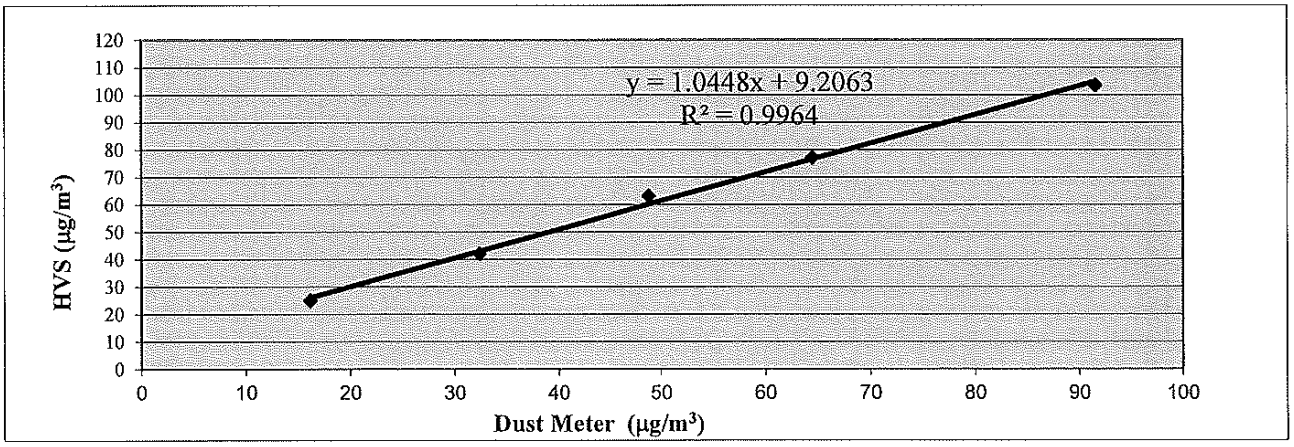
Correlation coefficient* = **0.9982**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	62.2
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	50.7
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.226**



QC Reviewer: LEE MAN HER Signature: hes Date: 9/5/2025

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 2013, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42512
Date of Issue:	2025-07-14
Date Received:	2025-07-12
Date Tested:	2025-07-12
Date Completed:	2025-07-14
Next Due Date:	2025-09-13
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23807
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-01

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.207

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-01	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23807	2203
Calibration Date:	12-Jul-25	12-Jul-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration ($\mu g/m^3$) **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	18	27
2	36	45
3	53	64
4	68	83
5	92	104
Average	**53.4**	**64.5**

By Linear Regression of Y on X

Slope , mw = **1.0483** **Intercept, bw =** **8.4996**

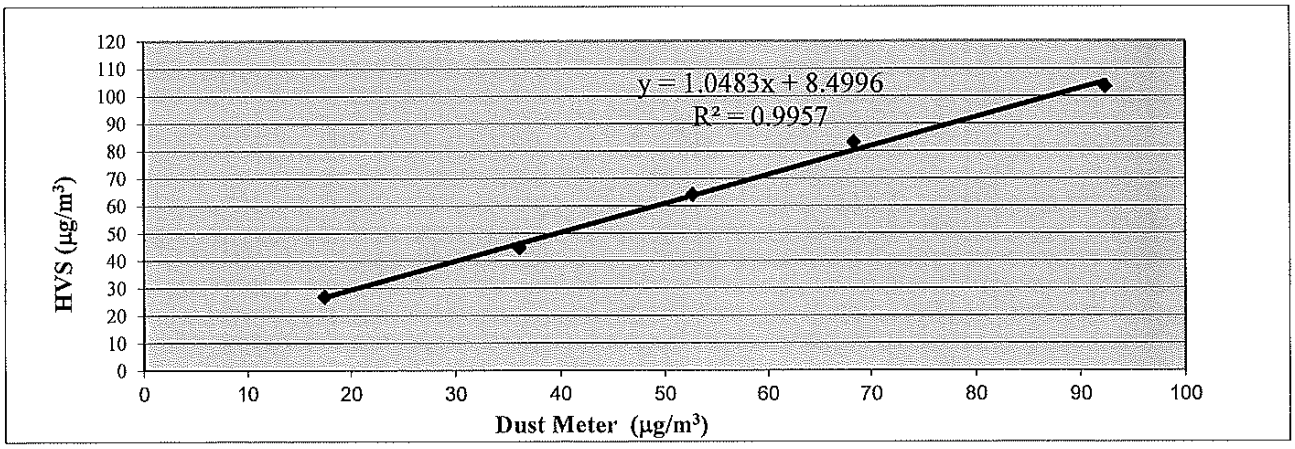
Correlation coefficient* = **0.9978**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	64.5
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	53.4
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.207**



QC Reviewer: MAN 1-172 Signature: Date: 13/7/25

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42298A
Date of Issue:	2025-05-12
Date Received:	2025-05-09
Date Tested:	2025-05-09
Date Completed:	2025-05-12
Next Due Date:	2025-07-11
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23808
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-02

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.151

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-02	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23808	2203
Calibration Date:	9-May-25	9-May-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	19	25
2	34	42
3	55	63
4	68	77
5	94	104
Average	**54.0**	**62.2**

By Linear Regression of Y on X

Slope , mw = 1.0356 **Intercept, bw =** 6.2601

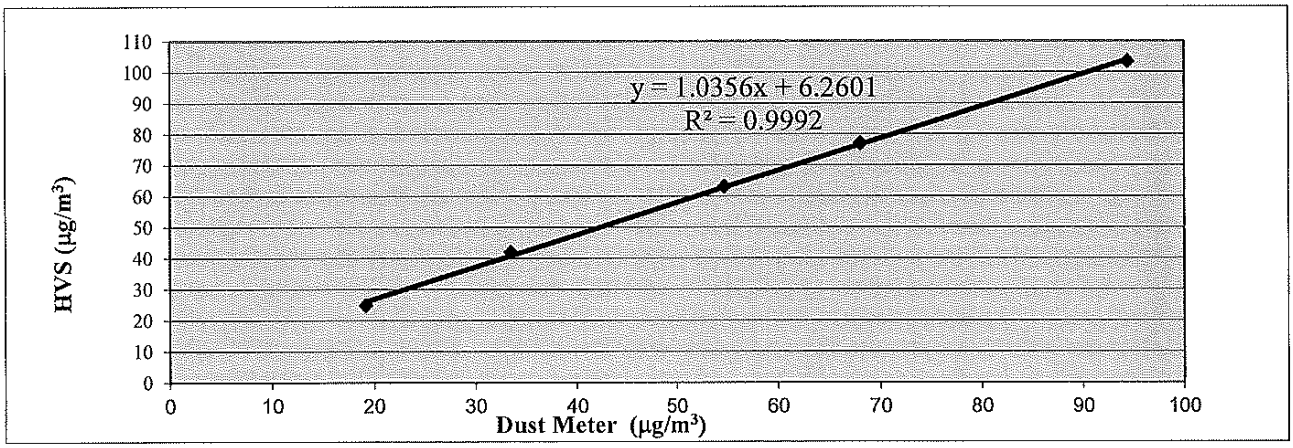
Correlation coefficient* = 0.9996

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	62.2
Particaulate Concentration by Dust Meter (µg/m^3)	54.0
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.151**



QC Reviewer: Lee Man Hin Signature: lei Date: 9/5/2025

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 2013, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42512A
Date of Issue:	2025-07-14
Date Received:	2025-07-12
Date Tested:	2025-07-12
Date Completed:	2025-07-14
Next Due Date:	2025-09-13
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23808
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-02

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.121

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-02	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23808	2203
Calibration Date:	12-Jul-25	12-Jul-25
Location:	Wellab Office (Calibration Room)	

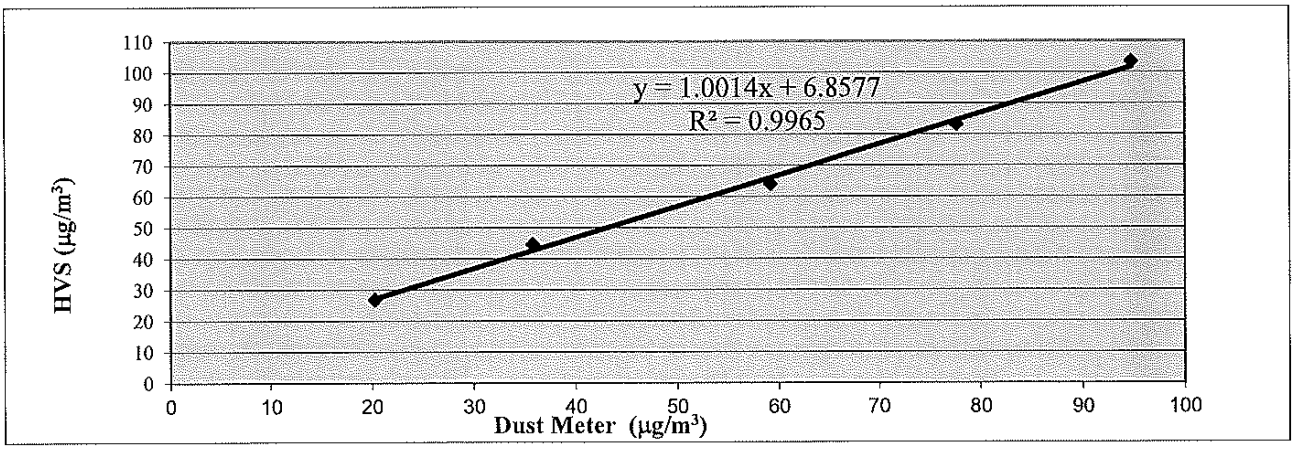
Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	20	27
2	36	45
3	59	64
4	78	83
5	95	104
Average	**57.6**	**64.5**

By Linear Regression of Y on X
Slope , mw = **1.0014** **Intercept, bw =** **6.8577**
Correlation coefficient* = **0.9982**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	64.5
Particaulate Concentration by Dust Meter (µg/m^3)	57.6
Measureing time, (min)	60

Set Correlation Factor , SCF
SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.121**



QC Reviewer: LEE MAN HIN Signature: Date: 13/7/25

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42298B
Date of Issue:	2025-05-12
Date Received:	2025-05-09
Date Tested:	2025-05-09
Date Completed:	2025-05-12
Next Due Date:	2025-07-11
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

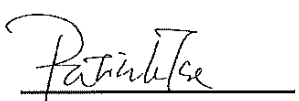
1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.152

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-03	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23809	2203
Calibration Date:	9-May-25	9-May-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	18	25
2	37	42
3	52	63
4	70	77
5	93	104
Average	**54.0**	**62.2**

By Linear Regression of Y on X

Slope , mw = **1.0436** **Intercept, bw =** **5.8692**

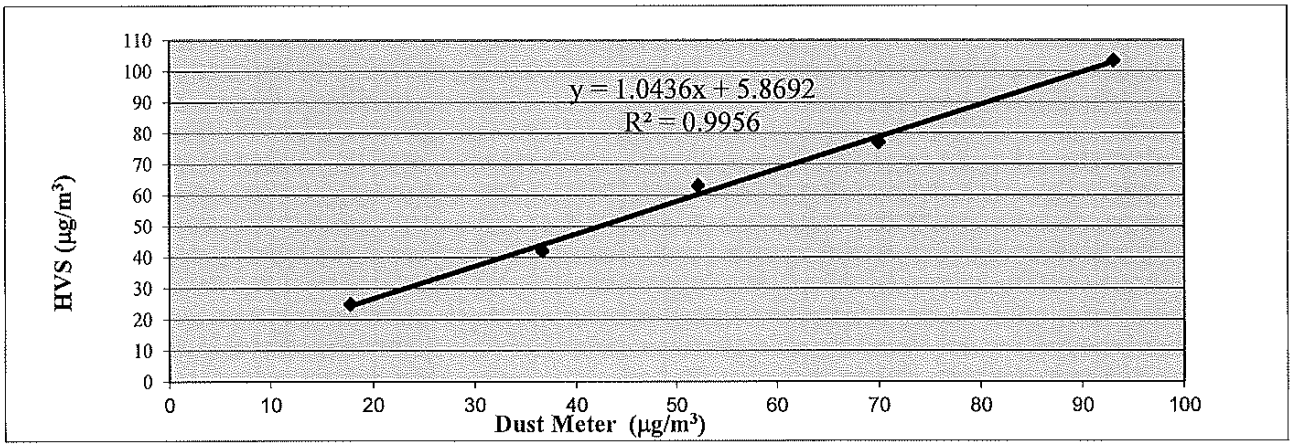
Correlation coefficient* = **0.9978**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	62.2
Particaulate Concentration by Dust Meter (µg/m^3)	54.0
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.152**



QC Reviewer: LEE MAN HEE Signature: Lee Date: 9/5/2025

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 2013, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42512C
Date of Issue:	2025-07-14
Date Received:	2025-07-12
Date Tested:	2025-07-12
Date Completed:	2025-07-14
Next Due Date:	2025-09-13
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23810
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-04

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.149

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-04	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23810	2203
Calibration Date:	12-Jul-25	12-Jul-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	23	27
2	35	45
3	57	64
4	74	83
5	91	104
Average	**56.1**	**64.5**

By Linear Regression of Y on X

Slope , mw = 1.1022 **Intercept, bw =** 2.6222

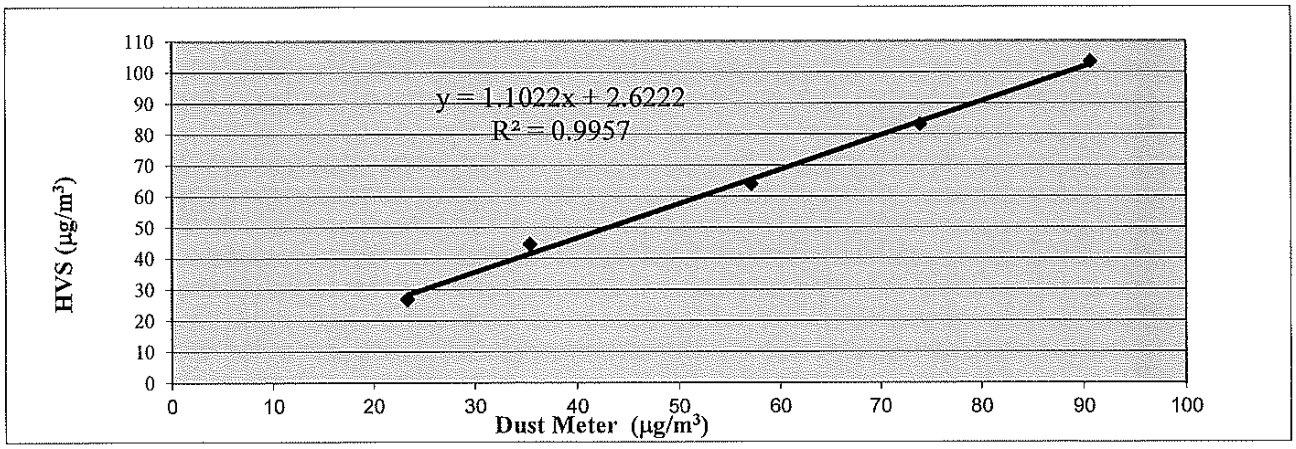
Correlation coefficient* = 0.9979

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	64.5
Particaulate Concentration by Dust Meter (µg/m^3)	56.1
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.149**



QC Reviewer: LEB MAN 1-Jul Signature: [signature] Date: 13/7/25

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42519A
Date of Issue:	2025-06-23
Date Received:	2025-06-20
Date Tested:	2025-06-20
Date Completed:	2025-06-23
Next Due Date:	2025-08-22
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24477
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-06

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.229

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-06	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24477	2203
Calibration Date:	20-Jun-25	20-Jun-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	8	12
2	17	25
3	40	50
4	68	83
5	92	105
Average	**44.9**	**55.2**

By Linear Regression of Y on X

Slope , mw = **1.1058** **Intercept, bw =** **5.5310**

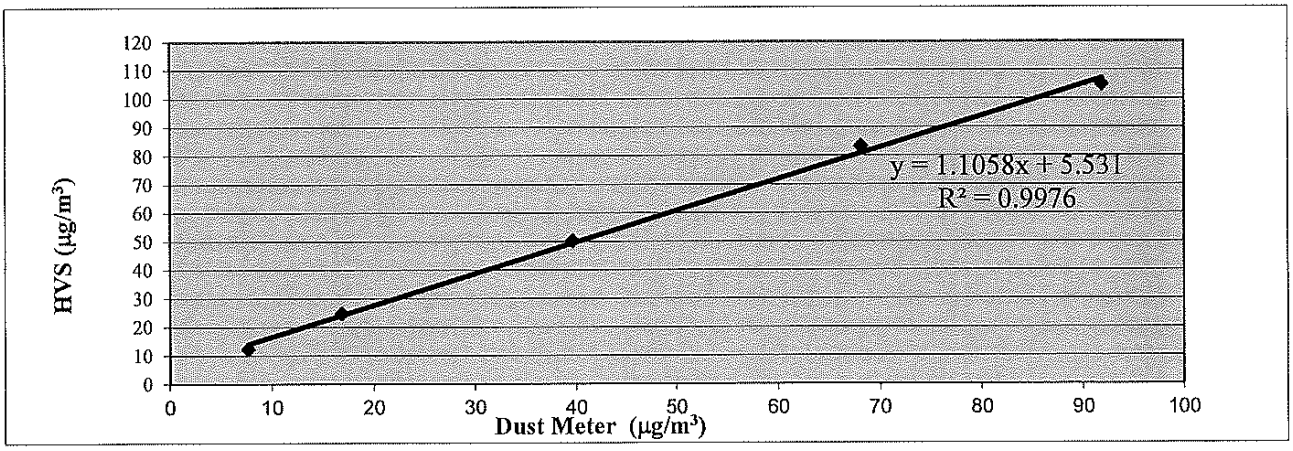
Correlation coefficient* = **0.9988**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	55.2
Particaulate Concentration by Dust Meter (µg/m^3)	44.9
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.229**



QC Reviewer: LEE MAN HOE Signature: Date: 21/6/2025

WELLAB 隆力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42298D
Date of Issue:	2025-05-12
Date Received:	2025-05-09
Date Tested:	2025-05-09
Date Completed:	2025-05-12
Next Due Date:	2025-07-11
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24475
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-07

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.161

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-07	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24475	2203
Calibration Date:	9-May-25	9-May-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	18	25
2	37	42
3	57	63
4	65	77
5	90	104
Average	**53.5**	**62.2**

By Linear Regression of Y on X

Slope , mw = **1.1043** **Intercept, bw =** **3.0566**

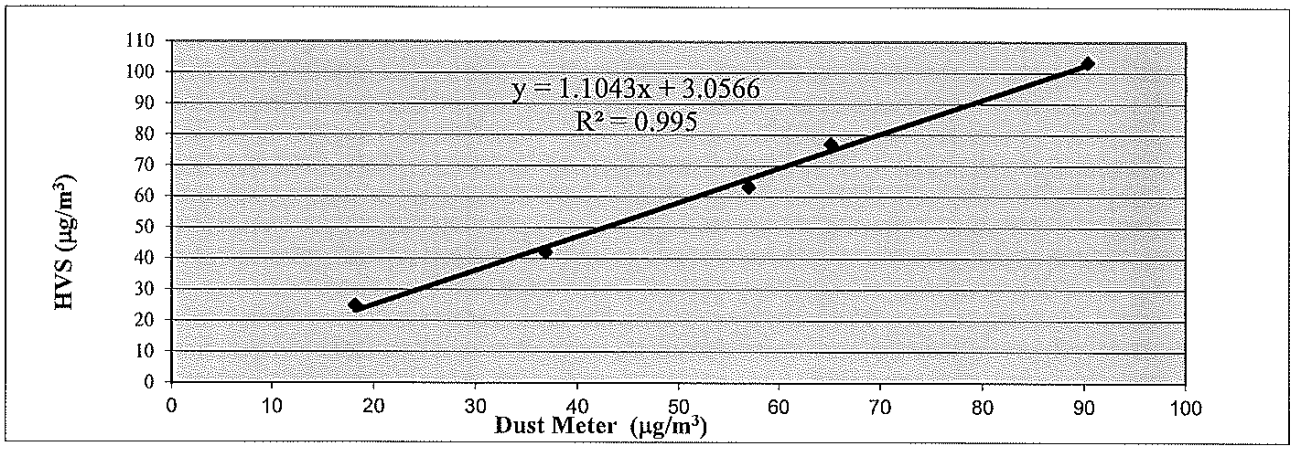
Correlation coefficient* = **0.9975**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	62.2
Particaulate Concentration by Dust Meter (µg/m^3)	53.5
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.161**



QC Reviewer: LEE MAN HER Signature: Lee Date: 9/5/2025

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB testing
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 2013, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42512D
Date of Issue:	2025-07-14
Date Received:	2025-07-12
Date Tested:	2025-07-12
Date Completed:	2025-07-14
Next Due Date:	2025-09-13
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24475
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-07

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.176

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-07	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24475	2203
Calibration Date:	12-Jul-25	12-Jul-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration ($\mu g/m^3$) **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	18	27
2	36	45
3	57	64
4	70	83
5	93	104
Average	**54.9**	**64.5**

By Linear Regression of Y on X

Slope , mw = **1.0372** **Intercept, bw =** **7.5972**

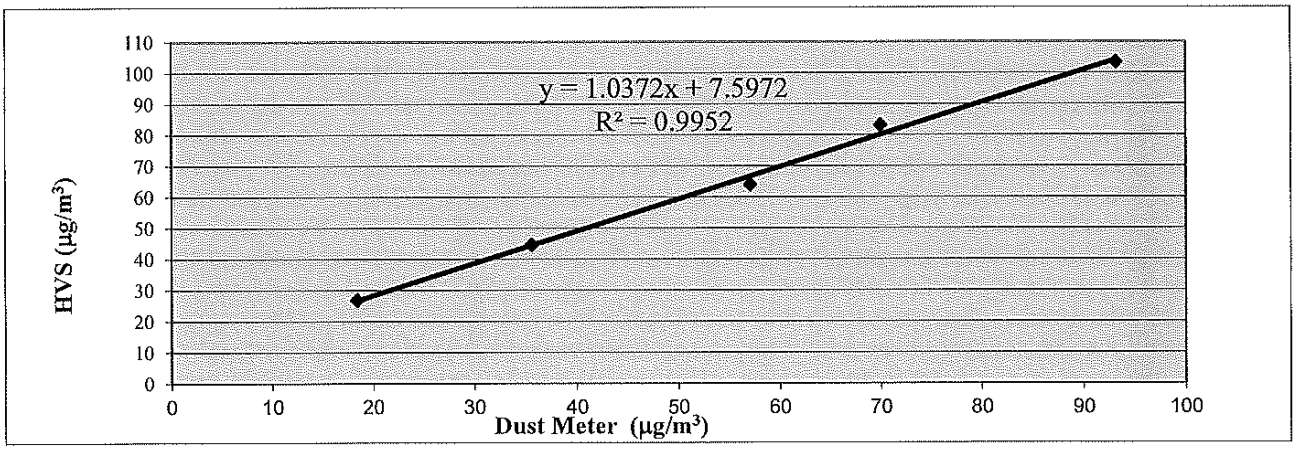
Correlation coefficient* = **0.9976**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	64.5
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	54.9
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.176**



QC Reviewer: LEE MAN HEI Signature: Date: 13/7/25

WELLAB 隆力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42519B
Date of Issue:	2025-06-23
Date Received:	2025-06-20
Date Tested:	2025-06-20
Date Completed:	2025-06-23
Next Due Date:	2025-08-22
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.154

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-08	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24479	2203
Calibration Date:	20-Jun-25	20-Jun-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	7	12
2	20	25
3	44	50
4	73	83
5	95	105
Average	**47.8**	**55.2**

By Linear Regression of Y on X

Slope , mw = **1.0693** **Intercept, bw =** **4.0691**

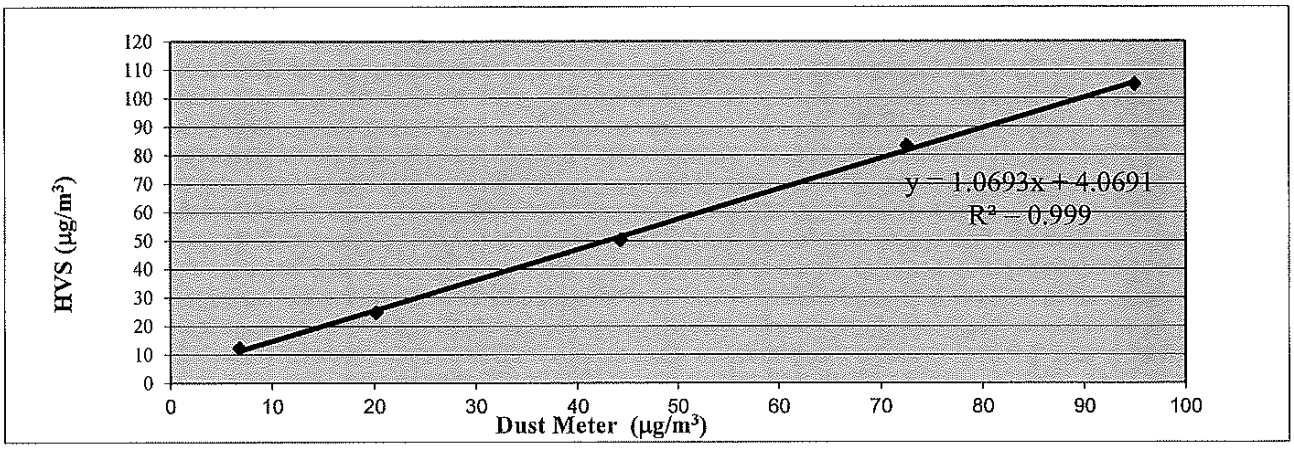
Correlation coefficient* = **0.9995**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	55.2
Particaulate Concentration by Dust Meter (µg/m^3)	47.8
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.154**



QC Reviewer: LEE HON HIN Signature: hei Date: 21/6/2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42519D
Date of Issue:	2025-06-23
Date Received:	2025-06-20
Date Tested:	2025-06-20
Date Completed:	2025-06-23
Next Due Date:	2025-08-22
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.174

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-10	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24478	2203
Calibration Date:	20-Jun-25	20-Jun-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	6	12
2	19	25
3	40	50
4	73	83
5	97	105
Average	**47.0**	**55.2**

By Linear Regression of Y on X

Slope , mw = **1.0320** **Intercept, bw =** **6.6567**

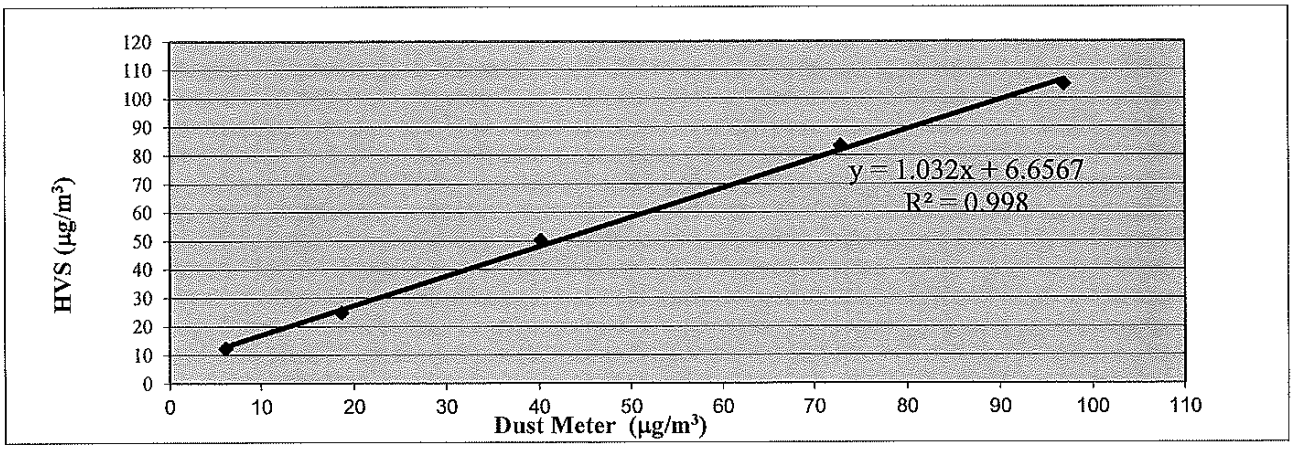
Correlation coefficient* = **0.9990**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	55.2
Particaulate Concentration by Dust Meter (µg/m^3)	47.0
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.174**



QC Reviewer: LEE MAN HOE Signature: Lee Date: 21/6/2025

WELLAB 匯力
consulting . testing . research

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./250509

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 9-May-25

Operator: HL

Ambient Condition			
Temperature, Ta (K)	294.6	Pressure, Pa (mmHg)	758.2

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	11.6	3.42	60.33	8.0	2.84
2	10.0	3.18	56.07	6.8	2.62
3	7.8	2.81	49.61	5.2	2.29
4	5.4	2.33	41.41	3.6	1.91
5	3.2	1.80	32.05	2.4	1.56

By Linear Regression of Y on X

Slope , mw = 0.0457 **Intercept, bw :** 0.0524

Correlation coefficient* = 0.9978

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.04**

Remarks:

Conducted by: Ho Man Hei Signature: Date: 9/5/2025

Checked by: Ao Ca Signature: Date: 9/5/2025

WELLAB 匯力
consulting . testing . research

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./250620

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 20-Jun-25

Operator: HL

Ambient Condition			
Temperature, Ta (K)	294.2	Pressure, Pa (mmHg)	758.6

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	11.1	3.35	59.09	7.8	2.81
2	10.5	3.26	57.49	6.9	2.64
3	7.3	2.72	48.06	5.0	2.25
4	5.2	2.29	40.68	3.6	1.91
5	3.4	1.85	33.04	2.4	1.56

By Linear Regression of Y on X

Slope , mw = 0.0464 **Intercept, bw =** 0.0194

Correlation coefficient* = 0.9980

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.02**

Remarks:

Conducted by: LLL HYN HTZ Signature: Date: 20/6/2025

Checked by: HD CCA CHM Signature: Date: 20/6/25

WELLAB 匯力
consulting . testing . research

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./250712

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 12-Jul-25

Operator: HL

Ambient Condition			
Temperature, Ta (K)	293.9	Pressure, Pa (mmHg)	755.8

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	11.5	3.41	60.05	7.7	2.79
2	10.4	3.24	57.14	6.9	2.64
3	7.6	2.77	48.96	5.3	2.31
4	5.7	2.40	42.50	3.9	1.98
5	3.4	1.85	33.00	2.3	1.52

By Linear Regression of Y on X

Slope , mw = 0.0463 **Intercept, bw =** 0.0086

Correlation coefficient* = 0.9991

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.97**

Remarks:

Conducted by: LH MBN HCY Signature: Date: 12/7/2025

Checked by: Ho Ka Chu Signature: Date: 14/7/25

TISCH Environmental

RECALIBRATION DUE DATE:
January 7, 2026

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 7, 2025	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 759.0	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **0993**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3940	3.2	2.00
2	3	4	1	0.9920	6.4	4.00
3	5	6	1	0.8890	7.9	5.00
4	7	8	1	0.8470	8.8	5.50
5	9	10	1	0.6990	12.7	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0114	0.7255	1.4252	0.9958	0.7143	0.8787
1.0071	1.0152	2.0156	0.9916	0.9996	1.2427
1.0051	1.1306	2.2535	0.9896	1.1132	1.3893
1.0039	1.1852	2.3635	0.9884	1.1669	1.4572
0.9987	1.4287	2.8505	0.9833	1.4067	1.7574
QSTD	**m=**	**2.02896**	**QA**	**m=**	**1.27050**
	b=	**-0.04420**		**b=**	**-0.02725**
	r=	**0.99998**		**r=**	**0.99998**

Calculations

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

For subsequent flow rate calculations:

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

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

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

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

RECALIBRATION

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

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

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

WELLAB 匯力
consulting . testing . research

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	File No.	WMA20002/20/0032
Date:	30-Jun-25	Next Due Date:	29-Aug-25
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-20	Serial No.	3223

Ambient Condition			
Temperature, Ta (K)	299.8	Pressure, Pa (mmHg)	757

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	7-Jan-26	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.3	3.63	63.94	8.6	2.92
2	10.6	3.24	57.16	6.8	2.59
3	7.8	2.78	49.15	5.2	2.27
4	6.6	2.56	45.27	4.4	2.09
5	3.4	1.83	32.71	2.3	1.51

By Linear Regression of Y on X

Slope , mw = 0.0448 **Intercept, bw =** 0.0527

Correlation coefficient* = 0.9997

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.95**

Remarks:

Conducted by: LLT MAN HF Signature: Date: 30/6/2025

Checked by: Ho Ka Chun Signature: Date: 30/6/2025

WELLAB 匯力
consulting . testing . research

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS3 - House near Tong Hang	File No.	WMA20002/17/0032
Date:	30-Jun-25	Next Due Date:	29-Aug-25
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-17	Serial No.	3218

Ambient Condition			
Temperature, Ta (K)	300	Pressure, Pa (mmHg)	757.2

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	7-Jan-26	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	12.7	3.55	62.49	8.6	2.92
2	10.7	3.25	57.42	7.1	2.65
3	9.2	3.02	53.30	6.2	2.48
4	7.5	2.72	48.20	4.8	2.18
5	3.5	1.86	33.17	2.5	1.57

By Linear Regression of Y on X

Slope , mw = 0.0458 **Intercept, bw :** 0.0291

Correlation coefficient* = 0.9978

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.03**

Remarks:

Conducted by: Lee Man Hei Signature: Date: 30/6/2025

Checked by: Ho Ka Chun Signature: Date: 30/6/25

WELLAB 匯力
consulting . testing . research

RSP - Respirable Suspended Particulates Sampler (PM 10)
Field Calibration Report

Station	KTN-DMS4A - Temporary Structure at Pak Shek Au	File No.	WMA20002/03/0031
Date:	28-May-25	Next Due Date:	27-Jul-25
Model No.	TE-6070X	Operator:	HL
Equipment No.:	WA-11-03	Serial No.	3225

Ambient Condition			
Temperature, Ta (K)	298.5	Pressure, Pa (mmHg)	760.6

Orifice Transfer Standard Information					
Serial No.:	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	Next Calibration Date:		7-Jan-26	

Calibration of RSP Sampler

Calibration Point	ORIFICE					HVS	
	ΔH(orifice), in. of water	Del Hc (1)	Qstd (2) (CFM)	Qa (3) (CFM) **X -axis**	Qa (3) (m^3/min) **X -axis**	ΔW (HVS), in. of water	$[\Delta W \times (Ta + 30) / Pa]^{1/2}$ **Y-axis**
1	12.6	12.59	62.53	62.59	1.77	8.9	1.96
2	10.5	10.49	57.15	57.20	1.62	7.5	1.80
3	8.4	8.39	51.20	51.25	1.45	6.4	1.66
4	5.6	5.60	41.95	41.98	1.19	4.3	1.36
5	3.8	3.80	34.69	34.72	0.98	3.1	1.16

By Linear Regression of Y on X

Slope , mw = 0.0289 **Intercept, bw =** 0.1567

Correlation coefficient* = 0.9991

(1) DEL Hc = ΔH x (Pa/760*298/Ta)

(2) Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\}/mc$ (m3/min)

(3) Qa = Qstd x (Ta / Pa) x (760 / 298) (m3/min)

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

Set Point Flow Rate., SFR

SFR = 1.13 x (760/Pa) x (Ta/298) = 39.96

Sampler Well - Type Manometer Set Point, SSP

SSP = [(mw x SFR + bw)^2 x Pa] / (Ta + 30) = 3.98

Remarks:

Conducted by: Lee Man Hin Signature: Date: 28/5/2025

Checked by: Ho Ka Lun Signature: Date: 28/5/25

WELLAB 匯力
consulting . testing . research

RSP - Respirable Suspended Particulates Sampler (PM 10)
Field Calibration Report

Station	KTN-DMS4A - Temporary Structure at Pak Shek Au	File No.	WMA20002/03/0032
Date:	28-Jul-25	Next Due Date:	27-Sep-25
Model No.	TE-6070X	Operator:	HL
Equipment No.:	WA-11-03	Serial No.	3225

Ambient Condition			
Temperature, Ta (K)	304.4	Pressure, Pa (mmHg)	750.8

Orifice Transfer Standard Information					
Serial No.:	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	Next Calibration Date:		7-Jan-26	

Calibration of RSP Sampler

Calibration Point	ORIFICE					HVS	
	ΔH(orifice), in. of water	Del Hc (1)	Qstd (2) (CFM)	Qa (3) (CFM) **X -axis**	Qa (3) (m^3/min) **X -axis**	ΔW (HVS), in. of water	$[\Delta W \times (Ta + 30) / Pa]^{1/2}$ **Y-axis**
1	12	11.61	60.07	62.11	1.76	8.8	1.98
2	10.1	9.77	55.18	57.05	1.61	7.1	1.78
3	7.4	7.16	47.34	48.95	1.39	5.5	1.57
4	5.3	5.13	40.18	41.55	1.18	4	1.33
5	3.9	3.77	34.58	35.75	1.01	3.1	1.18

By Linear Regression of Y on X

Slope , mw = 0.0300 **Intercept, bw =** 0.0938

Correlation coefficient* = 0.9984

(1) DEL Hc = ΔH x (Pa/760*298/Ta)

(2) Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\}/mc$ (m3/min)

(3) Qa = Qstd x (Ta / Pa) x (760 / 298) (m3/min)

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

Set Point Flow Rate., SFR

SFR = 1.13 x (760/Pa) x (Ta/298) = 41.29

Sampler Well - Type Manometer Set Point, SSP

SSP = [(mw x SFR + bw)^2 x Pa] / (Ta + 30) = 3.99

Remarks:

Conducted by: LEE KWAI HEI Signature: Date: 28/7/2025

Checked by: Ho Ka Man Signature: Date: 28/7/25

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41977B
Date of Issue:	2025-03-03
Date Received:	2025-02-26
Date Tested:	2025-02-26
Date Completed:	2025-03-03
Next Due Date:	2026-03-02
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580005
Equipment No.	: WN-01-03

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41977E
Date of Issue:	2025-03-03
Date Received:	2025-02-26
Date Tested:	2025-02-26
Date Completed:	2025-03-03
Next Due Date:	2026-03-02
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580008
Equipment No.	: WN-01-06

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

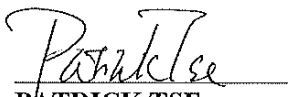
Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41978A
Date of Issue:	2025-03-10
Date Received:	2025-03-07
Date Tested:	2025-03-07
Date Completed:	2025-03-10
Next Due Date:	2026-03-09
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580013
Equipment No.	: WN-01-09

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

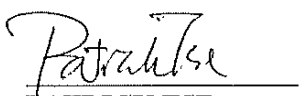
Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41118
Date of Issue:	2024-10-02
Date Received:	2024-09-30
Date Tested:	2024-09-30
Date Completed:	2024-10-02
Next Due Date:	2025-10-01
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1701, Technology Park,
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	40837A
Date of Issue:	2024-08-19
Date Received:	2024-08-15
Date Tested:	2024-08-15
Date Completed:	2024-08-19
Next Due Date:	2025-08-18
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24791
Equipment No.	: N-09-04

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1801, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41118A
Date of Issue:	2024-10-02
Date Received:	2024-09-30
Date Tested:	2024-09-30
Date Completed:	2024-10-02
Next Due Date:	2025-10-01
Page:	1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24780
Equipment No.	: N-09-05

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Miss Mei Ling Tang**

Test Report No.:	42372
Date of Issue:	2025-05-28
Date Received:	2025-05-27
Date Tested:	2025-05-27 to 2025-05-28
Date Completed:	2025-05-28
Page:	1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-42	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	16J102314
- EXO Optical DO Sensor, Ti	599100-01	16J100949
- EXO conductivity/Temperature Sensor, Ti	599870	17A105111
- EXO Turbidity Sensor, Ti	599101-01	16J101144
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J101306

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

Test Report No.:	42372
Date of Issue:	2025-05-28
Date Received:	2025-05-27
Date Tested:	2025-05-27 to 2025-05-28
Date Completed:	2025-05-28
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13100	12246-13534	Pass

Temperature performance checking

Reference thermometer-E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.002	-0.002	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	3.98	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.85	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.21	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.15	8.10	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	10.02	9.0-11.0	Pass
50 NTU	50.25	45.0-55.0	Pass
100 NTU	104.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Accetance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

**********END OF REPORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	42524
Date of Issue:	2025-06-21
Date Received:	2025-06-20
Date Tested:	2025-06-20 to 2025-06-21
Date Completed:	2025-06-21

ATTN: **Miss Mei Ling Tang**

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-75	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	16J102347
- EXO Optical DO Sensor, Ti	599100-01	16J100964
- EXO conductivity/Temperature Sensor, Ti	599870	16H100201
- EXO Turbidity Sensor, Ti	599101-01	16J101156
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B100259

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

Test Report No.:	42524
Date of Issue:	2025-06-21
Date Received:	2025-06-20
Date Tested:	2025-06-20 to 2025-06-21
Date Completed:	2025-06-21
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer-E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.001	-0.001	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	4.00	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.22	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
7.80	7.88	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	9.9	9.0-11.0	Pass
50 NTU	51.0	45.0-55.0	Pass
100 NTU	100.9	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Accetance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

**********END OF REPORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

ALS Technichem (HK) Pty Ltd
11/F., Chung Shun Knitting Centre,
1 - 3 Wing Yip Street,
Kwai Chung, N.T., Hong Kong
T: +852 2610 1044
F: +852 2610 2021
www.alsglobal.com

CERTIFICATE OF ANALYSIS

CONTACT:	MR WS CHAN	**WORK ORDER:**	HK2443152
CLIENT:	AECOM ASIA COMPANY LIMITED		
ADDRESS:	1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG	**SUB BATCH:**	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	21-Oct-2024
		DATE OF ISSUE:	01-Nov-2024

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.
The performance of the equipment stated in this report is checked with independent reference material and results are compared against a calibrated secondary source.
The "Instrument Specification" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.
The "Next Calibration Date" is recommended according to best practice principles as practised by the laboratory or quoted from relevant international standards.
The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Landfill Gas Analyser
Service Nature:	Performance Check
Scope:	Carbon dioxide, Methane and Oxygen
Brand Name/ Model No.:	Geotech / GA5000
Serial No./Equipment No.:	G501744
Date of Calibration:	01 November, 2024

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms Chan Ka Yu, Karen
Manager - Organics

This report may not be reproduced except with prior written approval from ALS Technichem (HK) Pty Ltd.

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK2443152
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 01-Nov-2024

Equipment Type: Landfill Gas Analyser
Brand Name/ Model No.: Geotech / GA5000
Serial No./ Equipment No.: G501744
Date of Calibration: 01 November, 2024 Next Calibration Date: 01 November, 2025

Parameters:

Methane

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 0.5
1.0	1.0	0.0	± 0.5
2.5	2.6	0.1	± 0.5
10.0	10.5	0.5	± 0.5
49.8	49.6	-0.2	± 0.5

Carbon Dioxide

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 0.5
1.0	1.0	0.0	± 0.5
2.5	2.6	0.1	± 0.5
10.1	9.9	-0.2	± 0.5
50.1	50.1	0.0	± 0.5

Oxygen

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 1.0
0.5	0.5	0.0	± 1.0
2.5	2.6	0.1	± 1.0
9.8	10.0	0.2	± 1.0
23.3	23.7	0.4	± 1.0

Ms Chan Ka Yu, Karen
Manager - Organics

-------- END OF REPORT --------

APPENDIX D
ENVIRONMENTAL MONITORING SCHEDULES

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Impact Air Quality and Noise Monitoring Schedule (July 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul
				1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3	
6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3		

Remarks:
*Monitoring session would be conducted by portable TSP monitor.

Environmental Permit(s)	Contract No.	Air Quality Stations	Noise Stations
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**1hr TSP and 24hr TSP** KTN-DMS4(B) - Temporary Structure near Fanling Highway (near Pak Shek Au)	--
EP-468/2013/A	ND/2019/03		
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**24hr RSP (Arsenic)** KTN-DMS4A - Temporary Structure at Pak Shek Au	--
EP-468/2013/A	ND/2019/03		
EP-467/2013/A EP-468/2013/A(1)	ND/2019/01	--	CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung
EP-468/2013/A(2)	ND/2019/01	--	CP-KTN-NMS3 -Fung Kong Garden
EP-469/2013(3)	ND/2019/02	--	CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery
EP-470/2013/A	ND/2019/01	--	CP-KTN-NMS5 - N/A
EP-473/2013/A(4)	ND/2019/03	**1hr TSP and 24hr TSP** FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A(5)	ND/2019/05	**1hr TSP and 24hr TSP** FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A(6)	ND/2019/03	**1hr TSP** FLN-DMS5 - Noble Hill **24hr TSP** FLN-DMS5A - Good View New Village	--
	ND/2019/04		--
EP-473/2013/A(7)	ND/2019/05	--	CP-FLN-NMS2 - Scattered Village Houses in Tong Hang
EP-473/2013/A(8)	ND/2019/04	--	CP-FLN-NMS1 - Belair Monte
	ND/2019/05	--	
EP-475/2013/A	ND/2019/06	--	

Remarks:

1. Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
2. Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
3. Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m. The monitoring station is not applicable to ND/2019/02
4. Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m. The monitoring station is not applicable to ND/2019/05
5. Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04
6. Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/05
7. Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04.
8. Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Contract No. NDO 04/2019

Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

Impact Water Quality Monitoring Schedule (July 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul
			Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream			

Water Quality Monitoring Stations

River Beas: SYR-CS1 - Upstream of river, SYR-IS1 - Downstream of river

River Indus and near Siu Hang San Tsuen Stream: NTR-CS1 - Upstream of river, NTR-IS1 - Downstream of river, SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream, MWR-IS3 - Water sensitive receiver at near Ma Wat River

Environmental Permit(s)	Contract No.	Water Quality Stations
EP-469/2013	ND/2019/02	**River Beas** SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	**River Indus and near Siu Hang San Tsuen Stream** NTR-CS1 - Upstream of river NTR-IS1 - Downstream of river SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream MWR-IS3 - Water sensitive receiver at near Ma Wat River

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Impact Ecological Monitoring Schedule (July 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul
				Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 14:00 Low tide: Start time: 10:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 7:00 Low tide: Start time: 10:00	
6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul
				Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 10:00 Low tide: Start time: 14:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 12:00 Low tide: Start time: 15:00	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
		Monitoring of Measures to Minimise Impacts to Ma Tso Lung and Siu Hang San Tsuen Stream **MS_01 - MS_15**		Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 12:00 Low tide: Start time: 9:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 14:00 Low tide: Start time: 11:00	
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
		Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 9:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 10:00 Low tide: Start time: 13:00			
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T3, T4, T5**	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 11:00 Low tide: Start time: 8:00	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T1, T6**	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 12:00 Low tide: Start time: 8:00		

Item	Activity	Monitoring Stations/Transects
1	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, and Long Valley	T1. Ng Tung River T2. Ng Tung River T3. Sheung Yue River T5. Long Valley
2	Monitoring of Measures to Minimise Impacts to Aquatic Fauna in Ma Tso Lung Stream and Siu Hang San Tsuen Stream	MS_01, MS_02, MS_03, MS_04, MS_05, MS_06, MS_07, MS_08, MS_09, MS_10, MS_11, MS_12, MS_13, MS_14, MS_15
3	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	T1. Ma Tso Lung riparian zone and associated wetland habitats
		T1. Green belt areas E1-8,D1-8 and G1-3 in KTN NDA
		T1. AGR one C2-4 and C2-2 in KTN NDA
		T1. Areas north of Ng Tung River
		T3. Area west of Siu Hang San Tsuen Stream
		T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au
		T5. Area west and east of the southern limit of the FLN NDA work area
		T6. Areas in the western part of KTN

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Weekly Site Inspection Schedule for July 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Jul	2-Jul	3-Jul	4-Jul	5-Jul
			Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)			
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/01)		Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)	Site Inspection (ND/2019/07)	
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
		Site Inspection (ND/2019/04) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)	Site Inspection (ND/2019/05)		
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
		Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02) Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/04)		

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Impact Air Quality and Noise Monitoring Schedule (August 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Aug	2-Aug
					1hr TSP* X3 FLN-DMS1, FLN-DMS3	
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3	
31-Aug						

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

Remarks:

*Monitoring session would be conducted by portable TSP monitor.

Environmental Permit(s)	Contract No.	Air Quality Stations	Noise Stations
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**1hr TSP and 24hr TSP** KTN-DMS4(B) - Temporary Structure near Fanling Highway (near Pak Shek Au)	--
EP-468/2013/A	ND/2019/03		
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**24hr RSP (Arsenic)** KTN-DMS4A - Temporary Structure at Pak Shek Au	--
EP-468/2013/A	ND/2019/03		
EP-467/2013/A EP-468/2013/A(1)	ND/2019/01	--	CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung
EP-468/2013/A(2)	ND/2019/01	--	CP-KTN-NMS3 -Fung Kong Garden
EP-469/2013(3)	ND/2019/02	--	CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery
EP-470/2013/A	ND/2019/01	--	CP-KTN-NMS5 - N/A
EP-473/2013/A(4)	ND/2019/03	**1hr TSP and 24hr TSP** FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A(5)	ND/2019/05	**1hr TSP and 24hr TSP** FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A(6)	ND/2019/03	**1hr TSP** FLN-DMS5 - Noble Hill **24hr TSP** FLN-DMS5A - Good View New Village	--
	ND/2019/04		--
EP-473/2013/A(7)	ND/2019/05	--	CP-FLN-NMS2 - Scattered Village Houses in Tong Hang
EP-473/2013/A(8)	ND/2019/04	--	CP-FLN-NMS1 - Belair Monte
	ND/2019/05	--	
EP-475/2013/A	ND/2019/06	--	

Remarks:

1. Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
2. Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
3. Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m. The monitoring station is not applicable to ND/2019/02
4. Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m. The monitoring station is not applicable to ND/2019/05
5. Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04
6. Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/05
7. Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04.
8. Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Impact Water Quality Monitoring Schedule (August 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Aug	2-Aug
					Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
31-Aug						

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

Water Quality Monitoring Stations
River Beas: SYR-CS1 - Upstream of river, SYR-IS1 - Downstream of river
River Indus and near Siu Hang San Tsuen Stream: NTR-CS1 - Upstream of river, NTR-IS1 - Downstream of river, SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream,
MWR-IS3 - Water sensitive receiver at near Ma Wat River

Environmental Permit(s)	Contract No.	Water Quality Stations
EP-469/2013	ND/2019/02	**River Beas** SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	**River Indus and near Siu Hang San Tsuen Stream** NTR-CS1 - Upstream of river NTR-IS1 - Downstream of river SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream MWR-IS3 - Water sensitive receiver at near Ma Wat River

Contract No. NDO 04/2019

Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

Tentative Impact Ecological Monitoring Schedule (August 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Aug	2-Aug
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug
				Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 10:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 11:00 Low tide: Start time: 14:00	
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
	Monitoring of Measures to Minimise Impacts to Ma Tso Lung and Siu Hang San Tsuen Stream **MS_01 - MS_15**	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T3, T4, T5**		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 12:00 Low tide: Start time: 9:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 13:00 Low tide: Start time: 9:00	
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 9:00 Low tide: Start time: 12:00 Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T1, T6**		Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 10:00 Low tide: Start time: 13:00		
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 13:00 Low tide: Start time: 16:00			Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 13:00 Low tide: Start time: 9:00	
31-Aug						

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

Item	Activity	Monitoring Stations/Transects
1	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, and Long Valley	T1. Ng Tung River T2. Ng Tung River T3. Sheung Yue River T5. Long Valley
2	Monitoring of Measures to Minimise Impacts to Aquatic Fauna in Ma Tso Lung Stream and Siu Hang San Tsuen Stream	MS_01, MS_02, MS_03, MS_04, MS_05, MS_06, MS_07, MS_08, MS_09, MS_10, MS_11, MS_12, MS_13, MS_14, MS_15
3	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	T1. Ma Tso Lung riparian zone and associated wetland habitats
		T1. Green belt areas E1-8,D1-8 and G1-3 in KTN NDA
		T1. AGR one C2-4 and C2-2 in KTN NDA
		T1. Areas north of Ng Tung River
		T3. Area west of Siu Hang San Tsuen Stream
		T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au
		T5. Area west and east of the southern limit of the FLN NDA work area
		T6. Areas in the western part of KTN

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Weekly Site Inspection Schedule for August 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Aug	2-Aug
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/04)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/07)	
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/04)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)			
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
31-Aug						

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

APPENDIX E
AIR QUALITY AND AMBIENT ARSENIC MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
4-Jul-25	9:00	Sunny	62.7
4-Jul-25	10:00	Sunny	67.0
4-Jul-25	11:00	Sunny	68.3
10-Jul-25	9:00	Rainy	60.0
10-Jul-25	10:00	Rainy	64.1
10-Jul-25	11:00	Rainy	71.8
16-Jul-25	13:00	Sunny	71.3
16-Jul-25	14:00	Sunny	76.4
16-Jul-25	15:00	Sunny	83.5
22-Jul-25	13:00	Sunny	34.9
22-Jul-25	14:00	Sunny	24.0
22-Jul-25	15:00	Sunny	19.2
28-Jul-25	13:00	Cloudy	94.7
28-Jul-25	14:00	Cloudy	98.2
28-Jul-25	15:00	Cloudy	87.7
		Minimum	19.2
		Maximum	98.2
		Average	65.6

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
4-Jul-25	9:00	Sunny	72.3
4-Jul-25	10:00	Sunny	76.7
4-Jul-25	11:00	Sunny	68.7
10-Jul-25	9:00	Cloudy	53.5
10-Jul-25	10:00	Cloudy	49.7
10-Jul-25	11:00	Cloudy	60.6
16-Jul-25	13:00	Sunny	74.1
16-Jul-25	14:00	Sunny	68.2
16-Jul-25	15:00	Sunny	75.6
22-Jul-25	8:45	Sunny	24.4
22-Jul-25	9:45	Sunny	29.9
22-Jul-25	10:45	Sunny	12.2
28-Jul-25	9:00	Cloudy	87.7
28-Jul-25	10:00	Cloudy	94.4
28-Jul-25	11:00	Cloudy	96.7
		Minimum	12.2
		Maximum	96.7
		Average	63.0

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
3-Jul-25	9:00	Sunny	48.4
3-Jul-25	10:00	Sunny	53.8
3-Jul-25	11:00	Sunny	45.9
9-Jul-25	8:00	Fine	55.6
9-Jul-25	9:00	Fine	60.4
9-Jul-25	10:00	Fine	51.1
15-Jul-25	9:00	Sunny	57.9
15-Jul-25	10:00	Sunny	67.5
15-Jul-25	11:00	Sunny	69.6
21-Jul-25	9:00	Rainy	35.5
21-Jul-25	10:00	Rainy	37.8
21-Jul-25	11:00	Rainy	31.8
25-Jul-25	9:00	Cloudy	44.5
25-Jul-25	10:00	Cloudy	50.9
25-Jul-25	11:00	Cloudy	45.8
31-Jul-25	9:00	Cloudy	26.2
31-Jul-25	10:00	Cloudy	21.4
31-Jul-25	11:00	Cloudy	25.2
		Minimum	21.4
		Maximum	69.6
		Average	46.1

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
3-Jul-25	13:00	Sunny	58.6
3-Jul-25	14:00	Sunny	64.7
3-Jul-25	15:00	Sunny	72.7
9-Jul-25	9:00	Sunny	66.8
9-Jul-25	10:00	Sunny	56.2
9-Jul-25	11:00	Sunny	51.2
15-Jul-25	9:00	Sunny	80.0
15-Jul-25	10:00	Sunny	70.4
15-Jul-25	11:00	Sunny	85.7
21-Jul-25	9:00	Rainy	33.3
21-Jul-25	10:00	Rainy	27.6
21-Jul-25	11:00	Rainy	31.9
25-Jul-25	13:00	Cloudy	59.2
25-Jul-25	14:00	Cloudy	68.0
25-Jul-25	15:00	Cloudy	64.4
31-Jul-25	9:00	Cloudy	37.6
31-Jul-25	10:00	Cloudy	43.9
31-Jul-25	11:00	Cloudy	37.4
		Minimum	27.6
		Maximum	85.7
		Average	56.1

Appendix E - 24-hour TSP Monitoring Results

Location FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark

Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
			Initial	Final		Initial	Final		Initial	Final			
3-Jul-25	Sunny	300.5	4.3558	4.3906	0.0348	11261.9	11285.9	24.0	1.23	1.22	1.22	1761.6	19.8
9-Jul-25	Cloudy	300.2	4.3383	4.3978	0.0595	11285.9	11309.9	24.0	1.21	1.23	1.22	1756.7	33.9
15-Jul-25	Sunny	302.4	4.2883	4.3289	0.0406	11309.9	11333.9	24.0	1.22	1.22	1.22	1752.1	23.2
21-Jul-25	Sunny	300.0	4.3706	4.3990	0.0284	11333.9	11357.9	24.0	1.22	1.22	1.22	1753.6	16.2
25-Jul-25	Sunny	299.4	4.3122	4.4238	0.1116	11357.9	11381.9	24.0	1.22	1.22	1.22	1758.8	63.5
31-Jul-25	Cloudy	302.0	4.3707	4.4214	0.0507	11381.9	11405.9	24.0	1.21	1.22	1.21	1749.1	29.0
												Min	16.2
												Max	63.5
												Average	30.9

Location FLN-DMS3 - House near Tong Hang

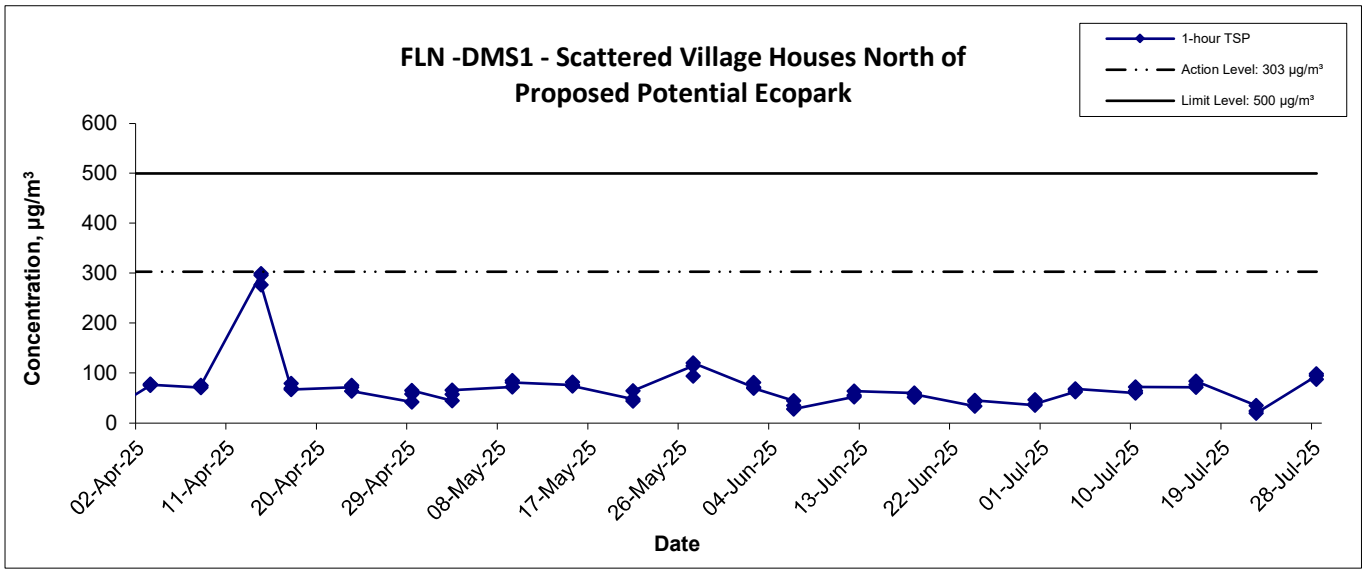
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
			Initial	Final		Initial	Final		Initial	Final			
3-Jul-25	Sunny	300.5	4.3192	4.3560	0.0368	12486.0	12510.0	24.0	1.21	1.21	1.21	1744.2	21.1
9-Jul-25	Cloudy	300.2	4.3158	4.3556	0.0398	12510.0	12534.0	24.0	1.20	1.21	1.21	1739.3	22.9
15-Jul-25	Sunny	302.4	4.2966	4.3350	0.0384	12534.0	12558.0	24.0	1.21	1.20	1.20	1734.9	22.1
21-Jul-25	Sunny	300.0	4.3640	4.3902	0.0262	12558.0	12582.0	24.0	1.20	1.21	1.21	1736.3	15.1
25-Jul-25	Sunny	299.4	4.3205	4.3704	0.0499	12582.0	12606.0	24.0	1.21	1.21	1.21	1741.4	28.7
31-Jul-25	Cloudy	302.0	4.3480	4.3800	0.0320	12606.0	12630.0	24.0	1.20	1.21	1.20	1731.9	18.5
												Min	15.1
												Max	28.7
												Average	21.4

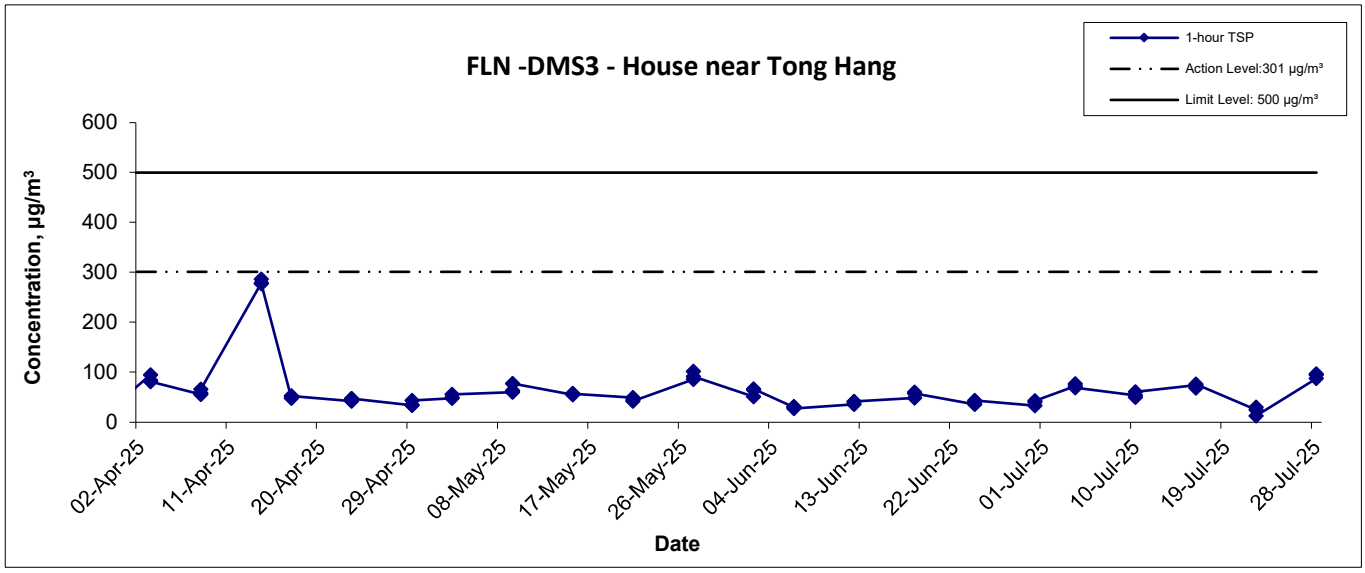
Appendix E - 24-hour TSP Monitoring Results

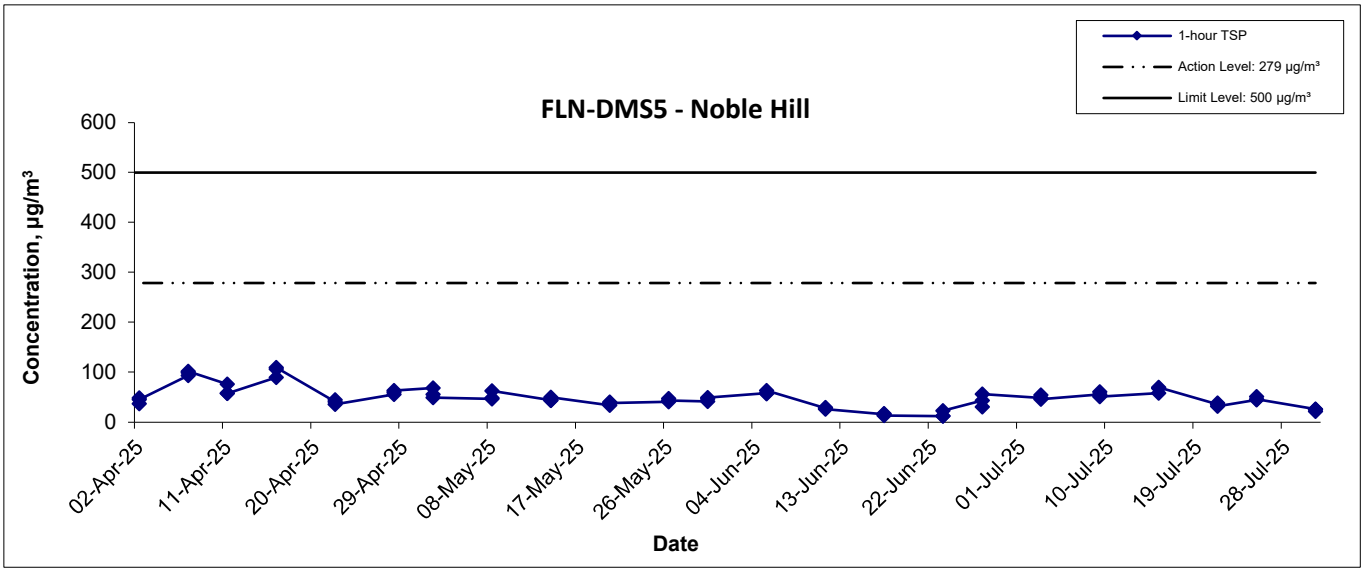
Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration (μg/m^3)
3-Jul-25	9:00	Sunny	45.2
9-Jul-25	9:30	Fine	57.8
15-Jul-25	8:40	Sunny	52.9
21-Jul-25	9:00	Rainy	35.1
25-Jul-25	9:00	Cloudy	40.7
31-Jul-25	9:00	Cloudy	29.9
		Minimum	29.9
		Maximum	57.8
		Average	43.6

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration (μg/m^3)
3-Jul-25	9:00	Sunny	54.3
9-Jul-25	8:30	Sunny	64.1
15-Jul-25	8:00	Sunny	61.6
21-Jul-25	9:00	Rainy	40.4
25-Jul-25	9:00	Cloudy	32.6
31-Jul-25	8:30	Cloudy	39.6
		Minimum	32.6
		Maximum	64.1
		Average	48.8

1-hr TSP Concentration Levels

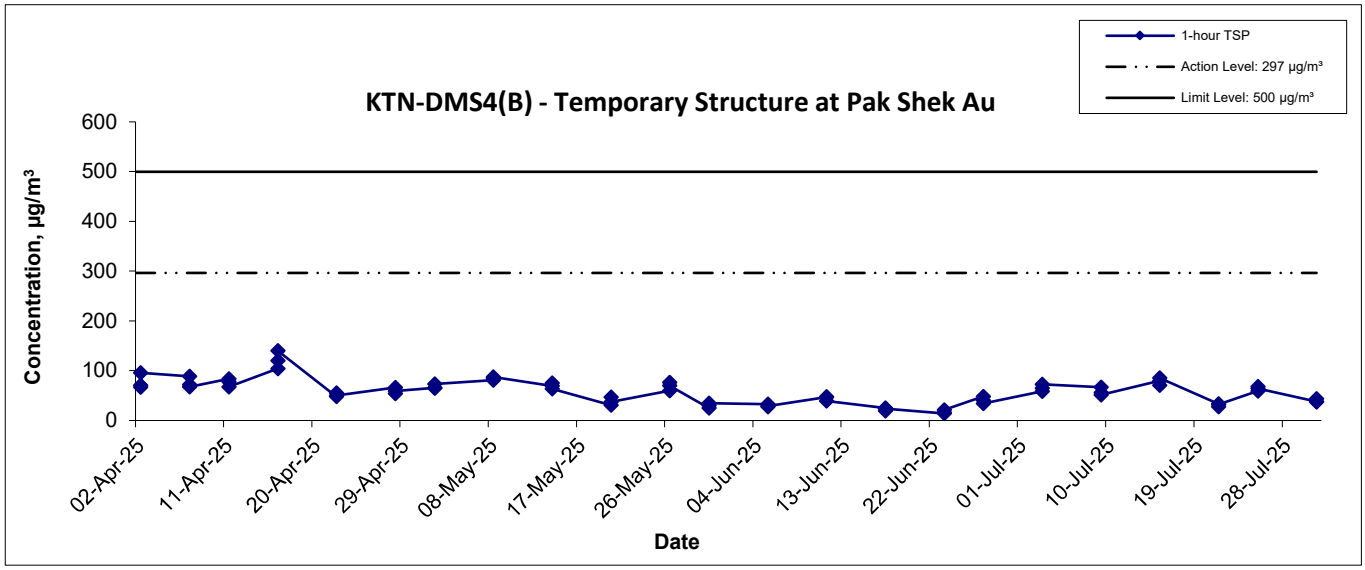






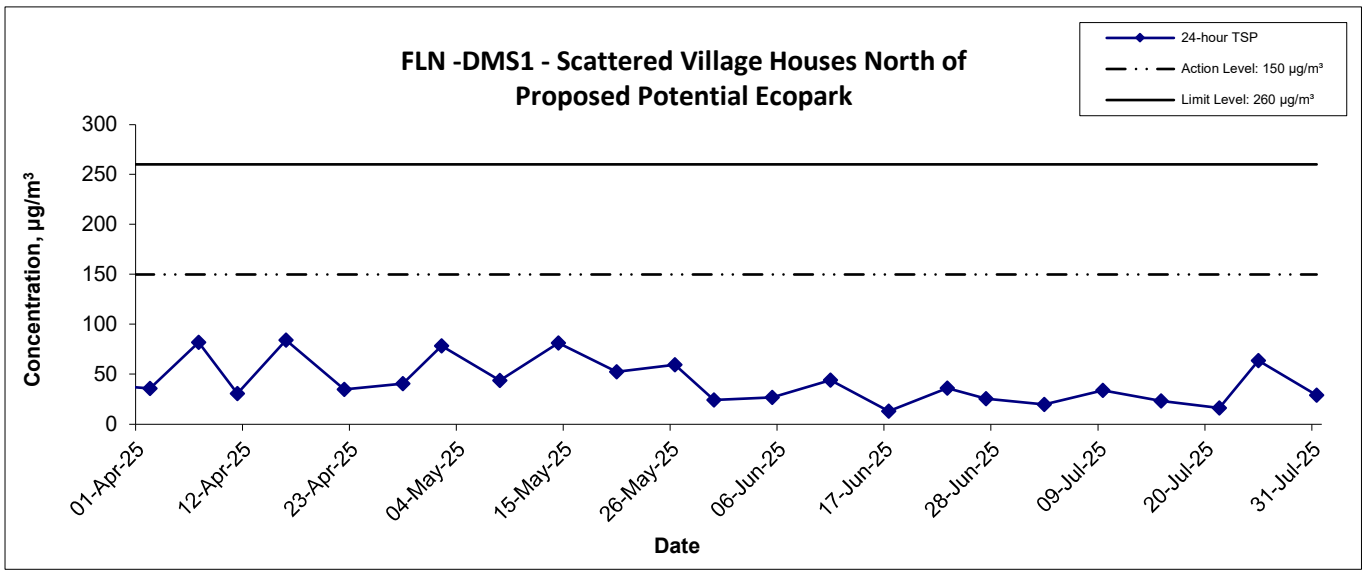
Title: Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

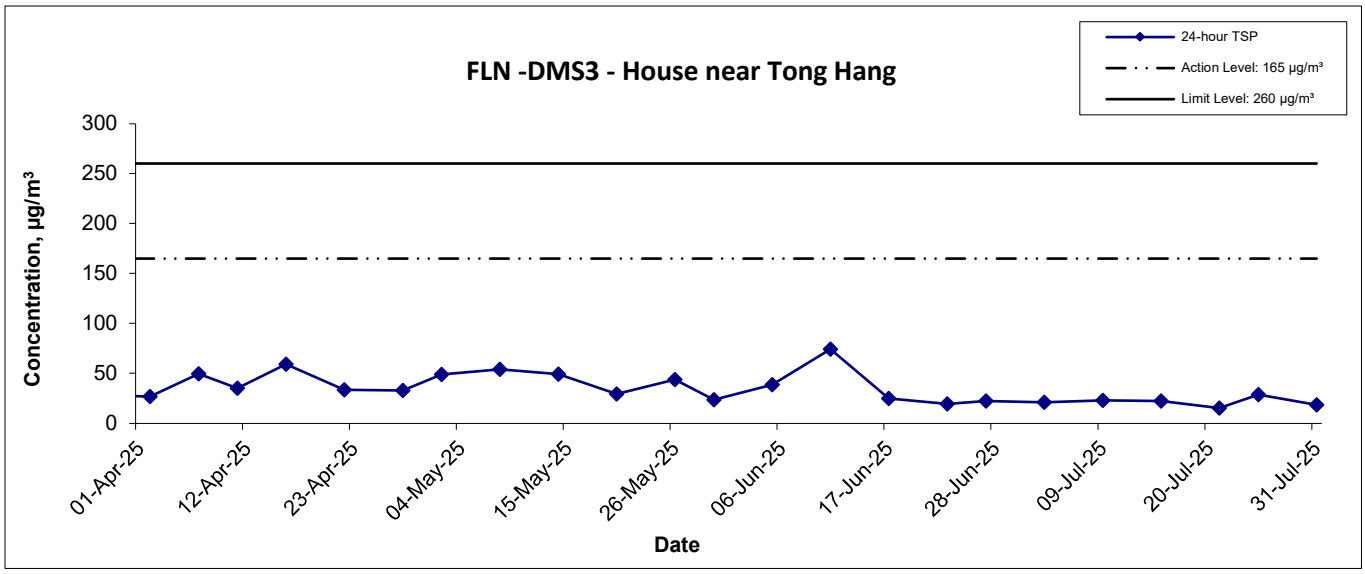
1-hr TSP Concentration Levels

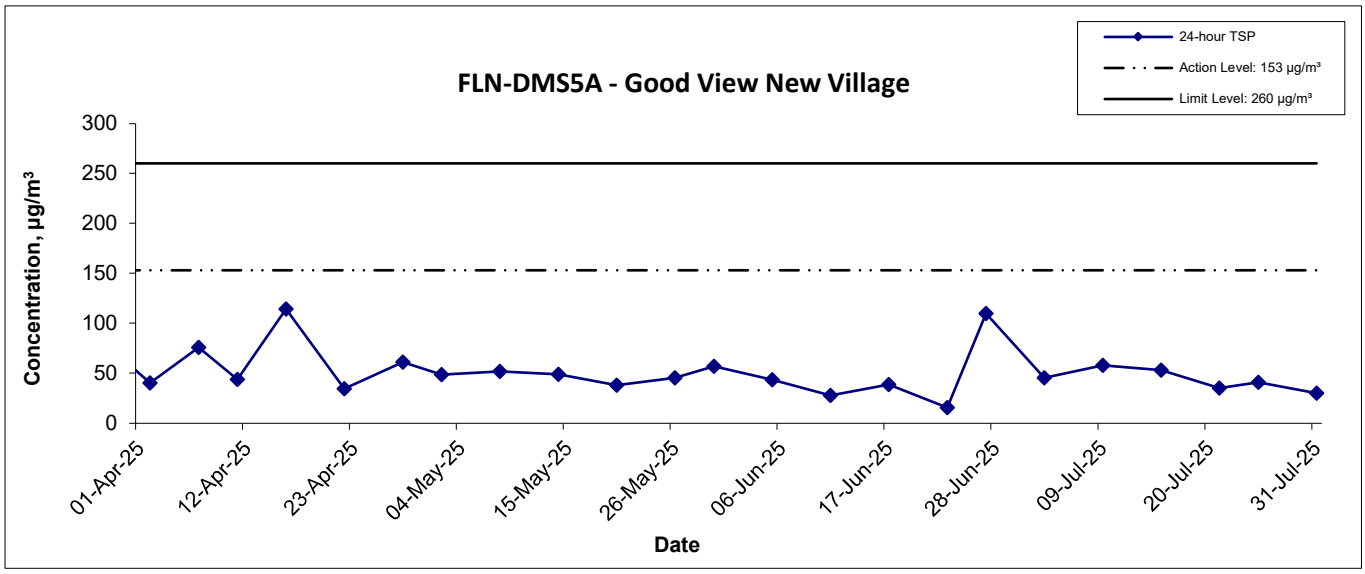


Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

24-hr TSP Concentration Levels

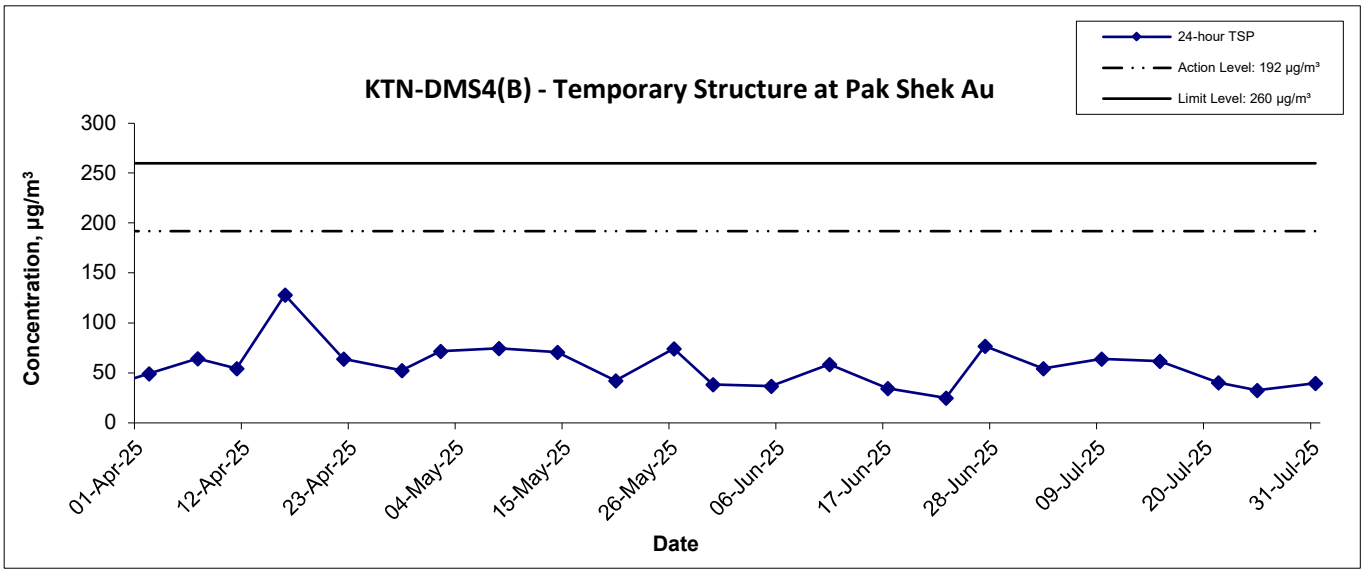






Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S Date Jul 25	Project No. WMA20002 Appendix E	WELLAB 匯力 consulting . testing . research

24-hr TSP Concentration Levels

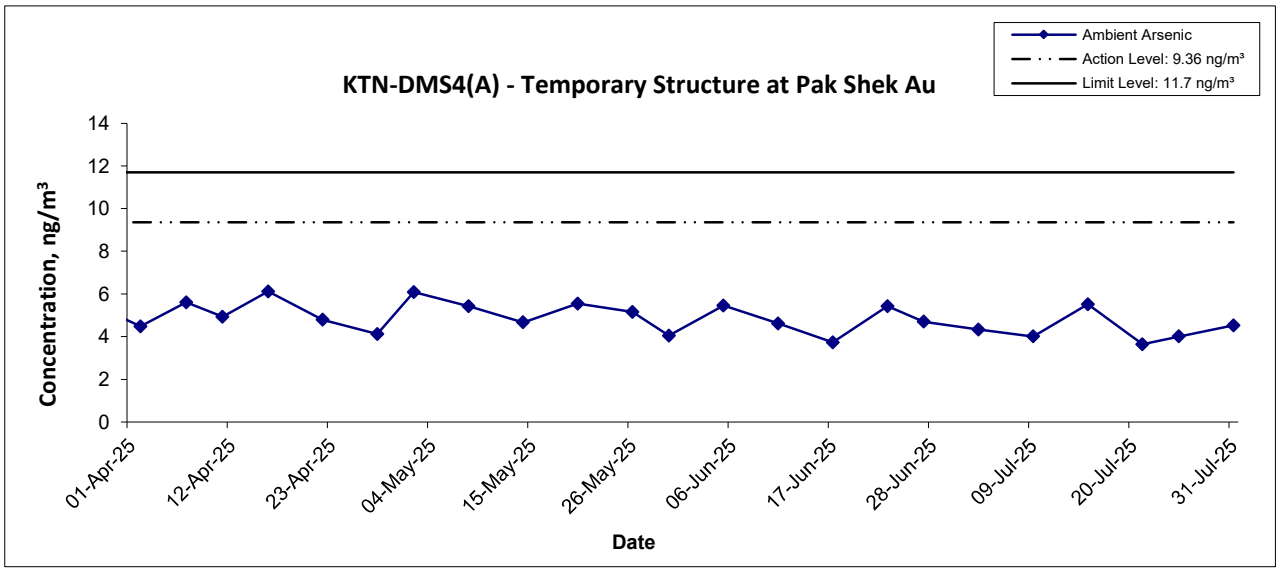


Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

Appendix E - Ambient Arsenic Monitoring Results

Location KTN-DMS4(A) - Temporary Structure at Pak Shek Au			
Date	Arsenic (μg)	Standard Volume, Vstd (m^3)	Ambient Arsenic Concentration (ng/m^3)
3-Jul-25	7.1	1641.0	4.33
9-Jul-25	6.6	1646.3	4.01
15-Jul-25	9.1	1650.3	5.51
21-Jul-25	6.0	1649.4	3.64
25-Jul-25	6.6	1644.3	4.01
31-Jul-25	7.6	1678.4	4.53

Ambient Arsenic



Title: Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Ambient Arsenic Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

WELLAB 匯力
consulting . testing . research

Table I - Ambient Arsenic Concentration on 3rd July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42491)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	7.1 μg	1641.0 m^3	4.33 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Me.L	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42491
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42491
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250601/020
Sample No.	42491-1
Arsenic (µg)	7.1

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42491
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	98	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	98	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	97	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42491

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

Report No.:	QC42491
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	90	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	98	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42491

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

WELLAB 匯力
consulting . testing . research

Table I - Ambient Arsenic Concentration on 9th July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42501)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	6.6 µg	1646.3 m^3	4.01 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meiling	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42501
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42501
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250601/033
Sample No.	42501-1
Arsenic (µg)	6.6

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42501
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17
Page:	1 of 2

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	97	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	99	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	98	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42501

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

Report No.:	QC42501
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	96	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	1	RPD<20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	102	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42501

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

WELLAB 匯力
consulting . testing . research

Table I - Ambient Arsenic Concentration on 15th July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42502)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	9.1 μg	1650.3 m^3	5.51 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meil	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42502
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42502
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250501/095
Sample No.	42502-1
Arsenic (µg)	9.1

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42502
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	94	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	103	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	94	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42502

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

Report No.:	QC42502
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	91	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	9	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	95	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42502

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

WELLAB 匯力
consulting . testing . research

Table I - Ambient Arsenic Concentration on 21st July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42511)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	6.0 μg	1649.4 m^3	3.64 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Mei Ly	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42511
Date of Issue:	2025-07-28
Date Received:	2025-07-22
Date Tested:	2025-07-22
Date Completed:	2025-07-28
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42511
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250601/096
Sample No.	42511-1
Arsenic (µg)	6.0

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42511
Date of Issue:	2025-07-28
Date Received:	2025-07-22
Date Tested:	2025-07-22
Date Completed:	2025-07-28

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	97	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	100	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	96	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42511

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

Report No.:	QC42511
Date of Issue:	2025-07-28
Date Received:	2025-07-22
Date Tested:	2025-07-22
Date Completed:	2025-07-28
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	88	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	94	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42511

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

Table I - Ambient Arsenic Concentration on 25th July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42514)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	6.6 µg	1644.3 m^3	4.01 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meiling	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42514
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42514
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	240901/014
Sample No.	42514-1
Arsenic (µg)	6.6

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42514
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31
Page:	1 of 2

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	102	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	96	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	97	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42514

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

Report No.:	QC42514
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	89	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	6	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	98	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42514

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

WELLAB 匯力
consulting . testing . research

Table I - Ambient Arsenic Concentration on 31st July 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42515)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	7.6 μg	1678.4 m^3	4.53 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meiling	13th August 2025
Checked by:	Marco Ma		13th August 2025

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	42515
Date of Issue:	2025-08-05
Date Received:	2025-08-01
Date Tested:	2025-08-01
Date Completed:	2025-08-05
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42515
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250701/019
Sample No.	42515-1
Arsenic (µg)	7.6

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42515
Date of Issue:	2025-08-05
Date Received:	2025-08-01
Date Tested:	2025-08-01
Date Completed:	2025-08-05

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	96	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	95	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	93	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42515

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

Report No.:	QC42515
Date of Issue:	2025-08-05
Date Received:	2025-08-01
Date Tested:	2025-08-01
Date Completed:	2025-08-05
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	96	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	97	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42515

**********END OF REP ORT**********

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

APPENDIX F
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - Noise Monitoring Results

Location CP-FLN-NMS1 - Belair Monte (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
10-Jul-25	Cloudy	09:30	65.0	69.7	54.8	66.3	69.9
		09:35	64.9	69.5	55.0		
		09:40	67.9	70.0	62.5		
		09:45	67.6	69.4	61.0		
		09:50	64.7	67.5	56.7		
		09:55	66.6	70.5	56.1		
16-Jul-25	Sunny	15:15	68.1	71.3	60.5	68.2	
		15:20	68.0	70.6	60.4		
		15:25	68.6	70.9	63.0		
		15:30	68.0	71.4	62.8		
		15:35	68.3	71.2	61.8		
		15:40	67.9	71.0	61.8		
22-Jul-25	Sunny	10:30	67.7	71.6	54.8	66.5	
		10:35	65.1	70.4	55.2		
		10:40	66.5	70.4	56.7		
		10:45	66.6	70.0	55.6		
		10:50	66.0	69.3	52.8		
		10:55	66.7	69.0	54.2		
28-Jul-25	Sunny	10:30	68.5	71.1	61.1	68.1	
		10:35	67.4	70.2	61.7		
		10:40	68.3	71.7	60.0		
		10:45	68.5	71.1	61.1		
		10:50	68.2	71.7	60.0		
		10:55	67.4	70.2	61.7		

Location CP-FLN-NMS2 - Scattered Village House in Tong Hang (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
10-Jul-25	Cloudy	13:05	56.4	63.0	54.7	55.6	59.6
		13:10	59.7	63.4	56.8		
		13:15	52.8	53.7	49.0		
		13:20	51.7	53.0	46.0		
		13:25	54.3	55.2	48.7		
		13:30	53.3	54.9	46.2		
16-Jul-25	Sunny	16:00	65.2	65.8	64.6	65.1	
		16:05	65.0	65.7	64.4		
		16:10	64.9	65.5	64.4		
		16:15	65.2	65.8	64.6		
		16:20	65.4	65.9	64.5		
		16:25	65.1	65.7	64.5		
22-Jul-25	Sunny	09:00	59.8	63.6	49.9	56.2	
		09:05	57.7	61.5	47.5		
		09:10	48.8	50.1	44.7		
		09:15	52.7	54.8	45.1		
		09:20	57.4	58.4	45.9		
		09:25	51.4	51.9	44.9		
28-Jul-25	Sunny	09:30	61.3	63.9	55.7	63.4	
		09:35	67.9	71.3	60.1		
		09:40	64.2	67.7	59.3		
		09:45	59.8	60.4	59.2		
		09:50	60.2	60.7	59.5		
		09:55	59.6	60.3	59.2		

Appendix F - Noise Monitoring Results

Location CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
3-Jul-25	Sunny	09:05	55.3	56.2	51.4	55.4	58.6
		09:10	55.1	55.7	51.2		
		09:15	55.3	55.8	51.2		
		09:20	55.6	56.3	51.3		
		09:25	55.8	57.1	51.6		
		09:30	55.3	56.4	51.5		
9-Jul-25	Sunny	13:45	63.4	68.4	55.2	58.6	
		13:50	57.2	59.9	54.9		
		13:55	55.7	56.4	54.9		
		14:00	56.0	57.2	55.9		
		14:05	56.7	57.9	55.3		
		14:10	56.4	57.4	56.3		
15-Jul-25	Sunny	08:30	52.0	56.9	41.1	48.5	
		08:35	45.7	46.4	39.7		
		08:40	45.7	50.6	38.4		
		08:45	46.3	50.2	39.0		
		08:50	47.8	50.9	41.8		
		08:55	49.7	51.4	42.4		
21-Jul-25	Cloudy	13:00	56.2	56.4	54.6	54.9	
		13:05	56.4	56.8	54.4		
		13:10	55.0	57.3	47.5		
		13:15	52.3	53.0	45.3		
		13:20	52.0	52.7	44.7		
		13:25	55.3	57.4	45.0		
31-Jul-25	Cloudy	10:40	57.5	59.3	52.1	58.1	
		10:45	58.1	60.7	52.5		
		10:50	57.6	58.4	52.1		
		10:55	56.4	58.6	52.3		
		11:00	59.3	61.3	52.7		
		11:05	58.8	60.1	52.5		

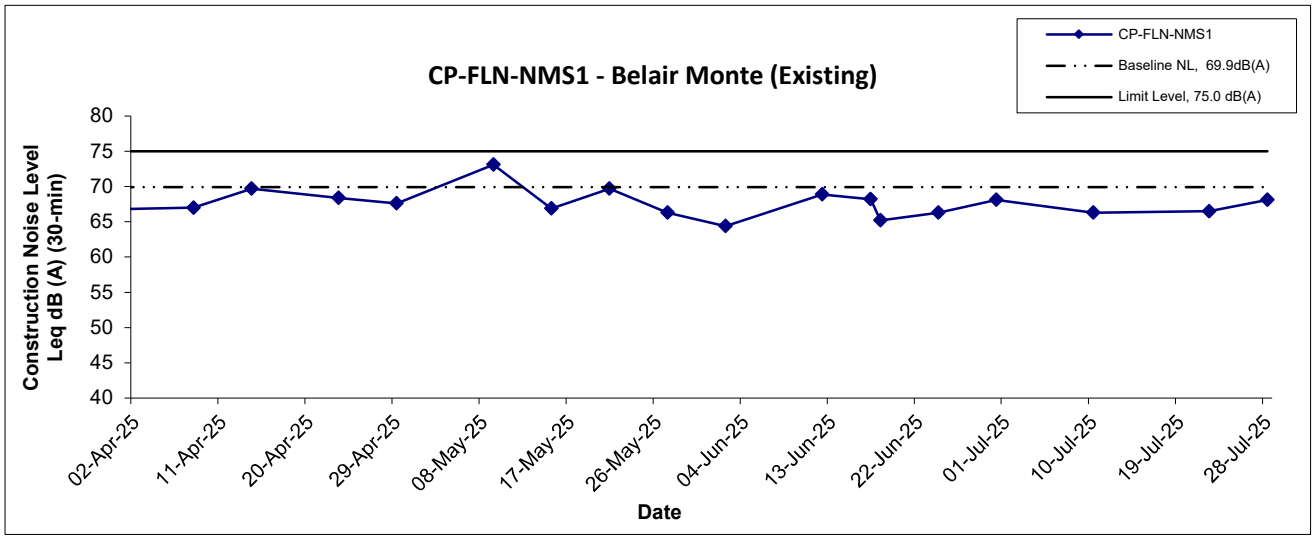
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
3-Jul-25	Sunny	09:45	48.7	49.5	45.3	49.0	51.6
		09:50	49.5	50.3	45.4		
		09:55	48.8	49.8	45.3		
		10:00	48.6	49.5	45.3		
		10:05	48.9	49.7	45.5		
		10:10	49.3	50.1	45.7		
9-Jul-25	Sunny	13:00	58.4	61.8	53.7	61.0	
		13:05	67.6	71.5	54.1		
		13:10	54.1	55.3	53.0		
		13:15	54.8	55.9	53.5		
		13:20	53.5	55.4	52.6		
		13:25	53.8	55.2	51.6		
15-Jul-25	Sunny	09:15	52.5	54.9	50.8	52.1	
		09:20	51.9	54.2	50.6		
		09:25	53.8	56.9	52.6		
		09:30	50.8	53.3	49.4		
		09:35	51.3	54.0	50.6		
		09:40	51.6	54.0	50.8		
21-Jul-25	Cloudy	13:40	62.8	66.6	52.0	59.2	
		13:45	60.7	64.5	50.5		
		13:50	51.8	53.1	47.7		
		13:55	55.7	57.8	48.1		
		14:00	60.4	61.4	48.9		
		14:05	54.4	54.9	47.9		
31-Jul-25	Cloudy	11:25	56.9	57.8	55.3	56.4	
		11:30	57.3	58.1	55.4		
		11:35	56.5	57.3	55.3		
		11:40	55.7	56.4	55.1		
		11:45	55.8	56.7	55.2		
		11:50	56.1	57.0	55.2		

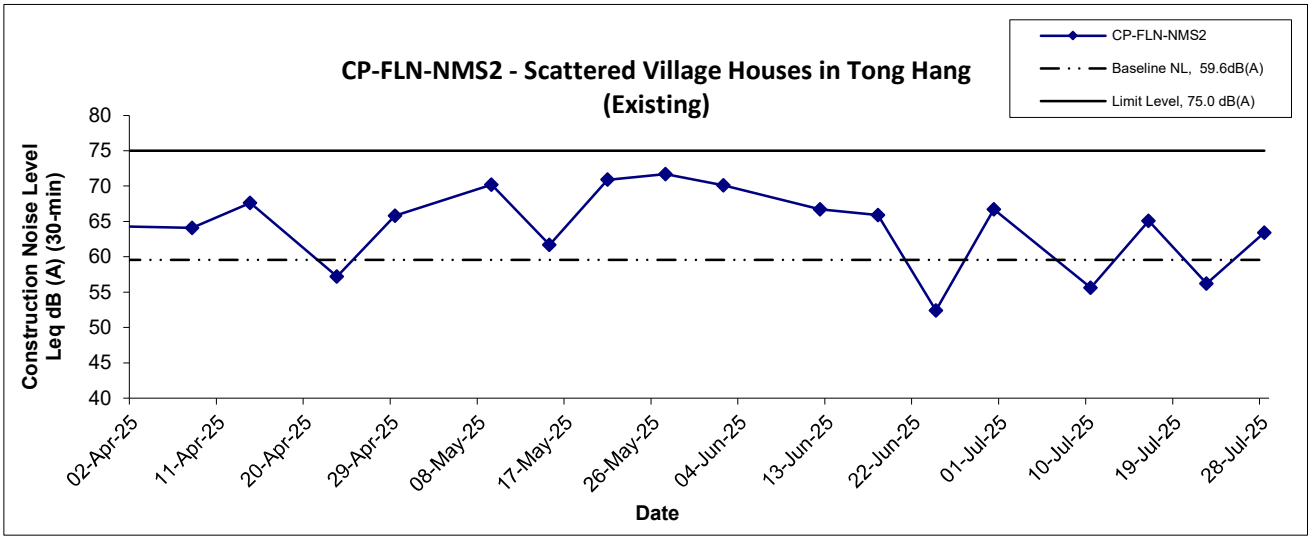
Appendix F - Noise Monitoring Results

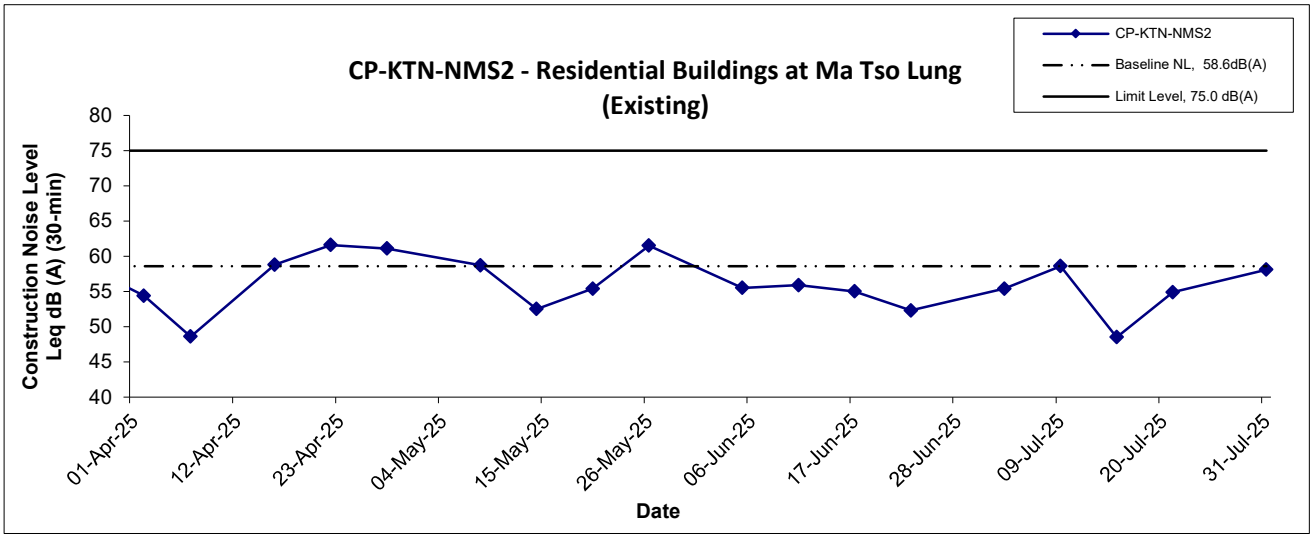
Location CP-KTN-NMS5 - N/A							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
3-Jul-25	Sunny	11:25	52.8	54.6	47.1	53.7	57.2
		11:30	53.6	55.1	47.3		
		11:35	53.3	54.9	47.2		
		11:40	52.9	54.7	47.1		
		11:45	54.8	56.3	47.5		
		11:50	54.3	55.2	47.2		
9-Jul-25	Sunny	15:55	59.9	60.1	57.9	59.1	
		16:00	58.3	58.9	57.6		
		16:05	58.3	59.1	57.8		
		16:10	59.4	59.9	57.9		
		16:15	58.6	59.2	57.9		
		16:20	59.9	61.6	58.2		
15-Jul-25	Sunny	11:00	52.0	52.6	45.2	52.4	
		11:05	51.7	53.1	45.7		
		11:10	53.3	54.8	44.1		
		11:15	51.7	53.6	45.2		
		11:20	50.3	51.7	48.1		
		11:25	54.3	55.1	49.9		
21-Jul-25	Cloudy	17:35	58.9	61.2	56.0	62.2	
		17:40	60.9	62.4	58.8		
		17:45	62.8	63.3	62.4		
		17:50	62.9	63.2	62.5		
		17:55	63.3	64.0	62.8		
		18:00	62.8	63.1	62.5		
31-Jul-25	Cloudy	09:05	53.6	55.7	50.2	54.8	
		09:10	54.7	56.3	50.4		
		09:15	56.2	58.1	50.7		
		09:20	55.6	57.4	50.3		
		09:25	54.3	55.6	49.7		
		09:30	54.1	55.2	49.6		

Location CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
3-Jul-25	Sunny	10:30	59.8	61.7	56.3	58.4	55.1
		10:35	57.2	58.4	55.8		
		10:40	58.3	60.5	56.1		
		10:45	58.4	59.7	56.0		
		10:50	57.8	59.3	56.1		
		10:55	58.5	60.3	56.2		
9-Jul-25	Sunny	14:45	62.2	62.6	50.5	57.3	
		14:50	53.2	54.1	50.5		
		14:55	52.6	52.8	50.2		
		15:00	53.4	54.0	50.4		
		15:05	56.8	58.3	52.1		
		15:10	56.8	57.8	52.1		
15-Jul-25	Sunny	10:00	67.7	71.6	54.8	66.5	
		10:05	65.1	70.4	55.2		
		10:10	66.5	70.4	56.7		
		10:15	66.6	70.0	55.6		
		10:20	66.0	69.3	52.8		
		10:25	66.7	69.0	54.2		
21-Jul-25	Cloudy	11:05	59.4	61.3	55.7	58.4	
		11:10	57.0	58.1	55.6		
		11:15	58.9	58.5	51.7		
		11:20	55.7	58.0	50.9		
		11:25	56.9	59.3	50.1		
		11:30	60.6	63.9	49.8		
31-Jul-25	Cloudy	09:55	63.4	64.7	57.6	60.3	
		10:00	62.3	63.7	57.3		
		10:05	57.9	59.1	56.8		
		10:10	58.4	59.3	56.9		
		10:15	58.0	58.9	56.7		
		10:20	57.6	58.2	56.9		

Noise Levels

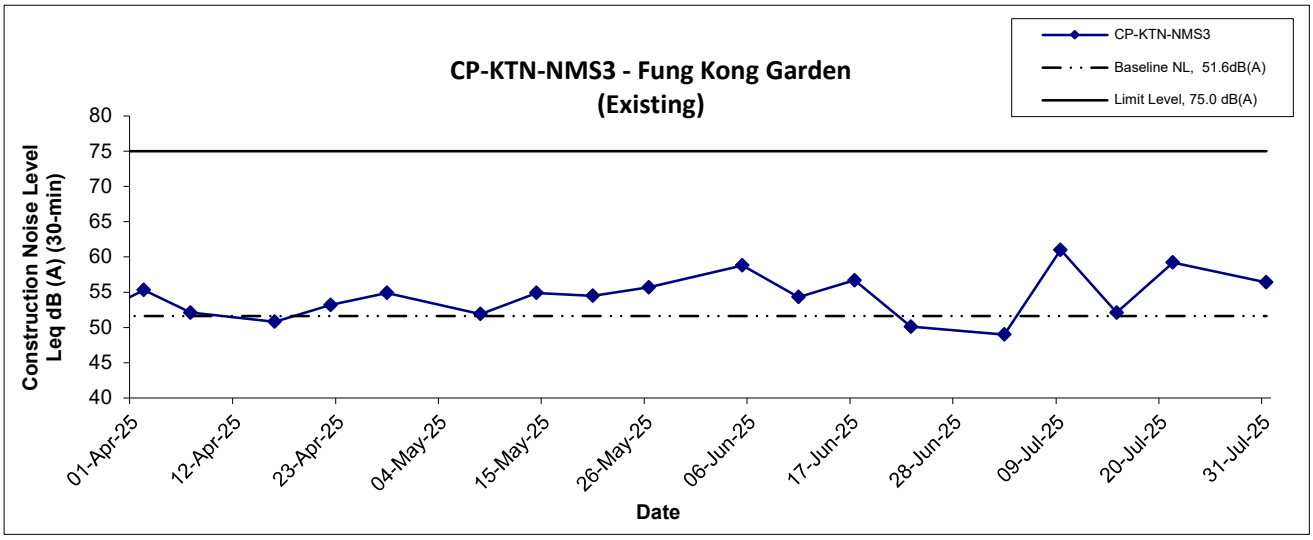


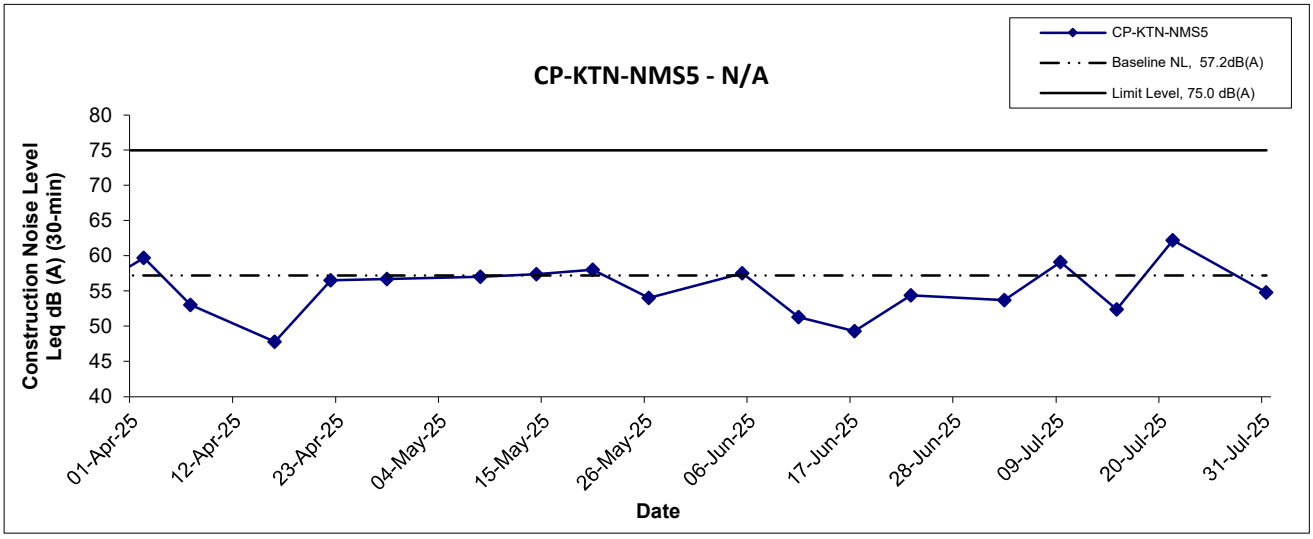


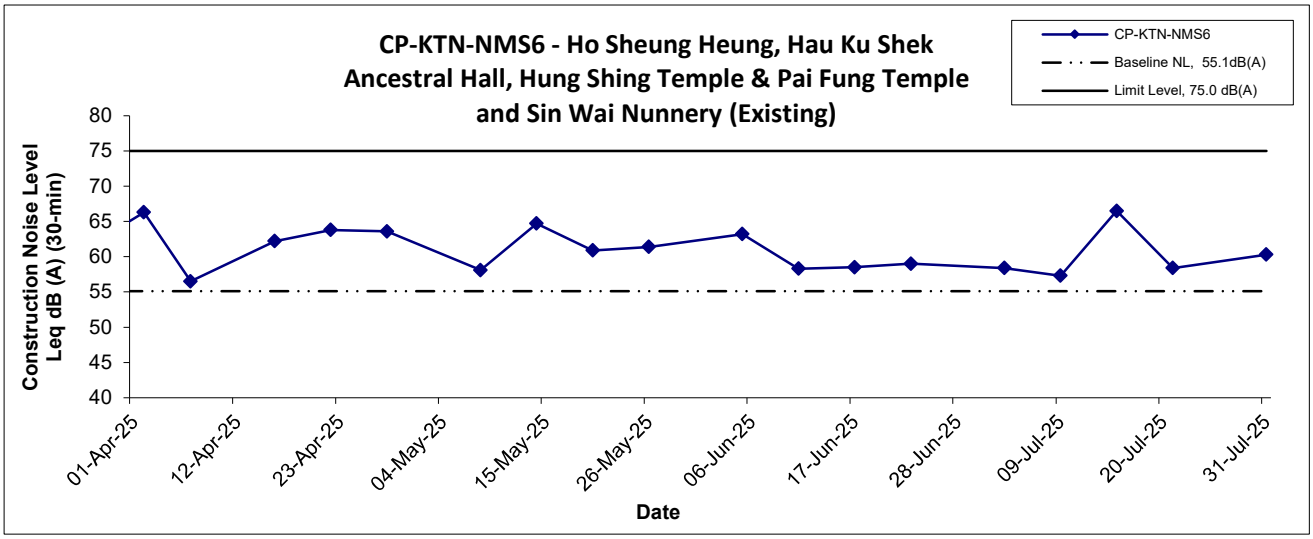


Title: Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: F	WELLAB 匯力 consulting . testing . research

Noise Levels







Title: Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: F	WELLAB 匯力 consulting . testing . research

APPENDIX G
WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SYR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Arsenic (μg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	09:41	Middle	0.2	31.4 31.4	31.4	8.0 8.0	8.0	0.2 0.2	0.2	89.5 89.3	89.4	6.6 6.6	6.6	12.5 12.5	12.5	25 24	24.5	15 15	15.0
4-Jul-25	Sunny	09:59	Middle	0.2	28.7 28.7	28.7	8.1 8.1	8.1	0.1 0.1	0.1	78.5 78.5	78.5	6.1 6.1	6.1	10.9 11.6	11.3	35 34	34.5	13 14	13.5
7-Jul-25	Sunny	14:36	Middle	0.2	33.7 33.7	33.7	8.2 8.2	8.2	0.1 0.1	0.1	96.7 96.7	96.7	6.9 6.9	6.9	9.9 9.8	9.9	16 15	15.5	12 12	12.0
9-Jul-25	Sunny	11:19	Middle	0.2	32.1 32.0	32.1	10.4 10.4	10.4	0.1 0.1	0.1	64.2 63.3	63.8	4.7 4.6	4.7	5.6 5.6	5.6	25 24	24.5	15 15	15.0
11-Jul-25	Cloudy	14:26	Middle	0.2	28.1 28.1	28.1	8.0 8.0	8.0	0.1 0.1	0.1	64.4 64.1	64.3	5.0 5.0	5.0	103.3 101.7	102.5	33 35	34.0	14 15	14.5
14-Jul-25	Sunny	10:49	Middle	0.2	28.8 28.8	28.8	7.8 7.8	7.8	0.1 0.1	0.1	77.4 77.0	77.2	6.0 6.0	6.0	6.2 6.1	6.2	13 14	13.5	8 9	8.5
16-Jul-25	Sunny	13:25	Middle	0.2	32.4 32.3	32.4	8.3 8.2	8.3	0.1 0.1	0.1	78.0 77.8	77.9	5.7 5.7	5.7	11.0 11.1	11.1	12 11	11.5	9 9	9.0
18-Jul-25	Rainy	12:15	Middle	0.2	27.4 27.4	27.4	8.6 8.6	8.6	0.1 0.1	0.1	90.6 90.6	90.6	7.2 7.2	7.2	263.3 260.0	261.7	36 37	36.5	15 16	15.5
21-Jul-25	Rainy	12:10	Middle	0.2	26.9 26.9	26.9	7.9 7.9	7.9	0.0 0.0	0.0	85.3 85.3	85.3	6.8 6.8	6.8	96.8 94.9	95.9	25 26	25.5	15 14	14.5
23-Jul-25	Cloudy	10:42	Middle	0.2	27.6 27.6	27.6	8.1 8.1	8.1	0.1 0.1	0.1	99.5 99.5	99.5	7.8 7.8	7.8	9.3 9.2	9.3	24 23	23.5	14 13	13.5
25-Jul-25	Cloudy	11:43	Middle	0.2	27.7 27.7	27.7	8.0 8.0	8.0	0.1 0.1	0.1	83.6 83.6	83.6	6.6 6.6	6.6	8.3 8.3	8.3	8 7	7.5	10 9	9.5
28-Jul-25	Cloudy	11:49	Middle	0.2	32.0 32.0	32.0	8.0 8.0	8.0	0.1 0.1	0.1	90.3 90.3	90.3	6.6 6.6	6.6	8.6 8.4	8.5	12 11	11.5	10 11	10.5
30-Jul-25	Cloudy	12:07	Middle	0.2	28.6 28.6	28.6	8.3 8.3	8.3	0.1 0.1	0.1	108.1 108.2	108.2	8.4 8.4	8.4	8.0 7.9	8.0	12 13	12.5	10 11	10.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SYR-IS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Arsenic (μg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	09:57	Middle	0.5	29.8 29.8	29.8	7.8 7.9	7.9	0.4 0.4	0.4	94.8 94.8	94.8	7.2 7.2	7.2	19.1 19.1	19.1	33 32	32.5	16 16	16.0
4-Jul-25	Sunny	10:50	Middle	0.3	30.7 30.7	30.7	8.3 8.3	8.3	0.1 0.1	0.1	101.6 101.6	101.6	7.6 7.6	7.6	31.7 32.4	32.1	44 45	44.5	15 15	15.0
7-Jul-25	Sunny	14:52	Middle	0.2	35.6 35.7	35.7	9.3 9.3	9.3	0.1 0.1	0.1	151.5 151.5	151.5	10.4 10.4	10.4	27.1 27.5	27.3	33 34	33.5	12 13	12.5
9-Jul-25	Sunny	11:32	Middle	0.7	31.2 31.2	31.2	10.1 9.9	10.0	0.1 0.1	0.1	88.8 88.7	88.8	6.6 6.6	6.6	30.6 31.0	30.8	36 36	36.0	16 17	16.5
11-Jul-25	Cloudy	14:52	Middle	0.3	28.2 28.2	28.2	8.3 8.3	8.3	0.1 0.1	0.1	89.8 89.8	89.8	7.0 7.0	7.0	32.0 31.9	32.0	26 26	26.0	13 13	13.0
14-Jul-25	Sunny	11:20	Middle	0.4	30.7 30.7	30.7	7.8 7.8	7.8	0.1 0.1	0.1	84.4 84.4	84.4	6.3 6.3	6.3	16.5 17.0	16.8	13 13	13.0	9 9	9.0
16-Jul-25	Sunny	13:47	Middle	0.6	34.9 34.9	34.9	8.2 8.2	8.2	0.3 0.3	0.3	91.8 91.8	91.8	6.4 6.4	6.4	13.7 13.7	13.7	13 14	13.5	10 11	10.5
18-Jul-25	Rainy	11:43	Middle	0.3	28.4 28.4	28.4	7.8 7.8	7.8	0.1 0.1	0.1	86.9 86.9	86.9	6.8 6.8	6.8	206.5 208.2	207.4	34 35	34.5	16 15	15.5
21-Jul-25	Rainy	11:48	Middle	0.3	27.0 27.0	27.0	8.5 8.5	8.5	0.1 0.1	0.1	89.1 89.1	89.1	7.1 7.1	7.1	93.3 93.4	93.4	34 34	34.0	13 13	13.0
23-Jul-25	Cloudy	11:07	Middle	0.4	28.7 28.7	28.7	8.1 8.1	8.1	0.1 0.1	0.1	98.6 98.6	98.6	7.6 7.6	7.6	13.7 13.7	13.7	20 19	19.5	14 14	14.0
25-Jul-25	Cloudy	12:01	Middle	0.5	28.8 28.8	28.8	8.1 8.1	8.1	0.2 0.2	0.2	85.7 85.9	85.8	6.6 6.6	6.6	11.7 11.6	11.7	7 7	7.0	10 10	10.0
28-Jul-25	Cloudy	11:28	Middle	0.7	31.1 31.1	31.1	7.8 7.8	7.8	0.1 0.1	0.1	87.5 87.5	87.5	6.5 6.5	6.5	4.3 4.5	4.4	9 9	9.0	9 9	9.0
30-Jul-25	Cloudy	11:39	Middle	0.5	29.0 29.0	29.0	8.1 8.1	8.1	0.1 0.1	0.1	86.7 86.7	86.7	6.7 6.7	6.7	26.4 26.8	26.6	22 23	22.5	11 12	11.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	10:53	Middle	0.2	31.0 31.0	31.0	8.0 8.0	8.0	0.1 0.1	0.1	97.6 97.4	97.5	7.3 7.2	7.3	8.6 8.7	8.7	21 22	21.5
4-Jul-25	Sunny	12:44	Middle	0.2	31.2 31.2	31.2	8.0 8.0	8.0	0.1 0.1	0.1	112.9 112.9	112.9	8.4 8.4	8.4	10.0 10.1	10.1	22 23	22.5
7-Jul-25	Sunny	13:15	Middle	0.2	32.5 32.5	32.5	8.1 8.1	8.1	0.1 0.1	0.1	123.5 123.8	123.7	9.0 9.0	9.0	6.3 6.3	6.3	22 23	22.5
9-Jul-25	Sunny	10:44	Middle	0.2	33.9 33.9	33.9	8.1 8.1	8.1	0.1 0.1	0.1	100.3 100.4	100.4	7.1 7.1	7.1	9.9 9.9	9.9	23 24	23.5
11-Jul-25	Cloudy	13:13	Middle	0.2	26.9 26.9	26.9	7.7 7.7	7.7	0.1 0.1	0.1	80.4 80.3	80.4	6.4 6.4	6.4	12.6 12.6	12.6	14 15	14.5
14-Jul-25	Sunny	09:23	Middle	0.2	27.6 27.6	27.6	7.8 7.7	7.8	0.1 0.1	0.1	87.9 87.8	87.9	6.9 6.9	6.9	7.8 7.7	7.8	16 15	15.5
16-Jul-25	Sunny	15:22	Middle	0.2	32.3 32.3	32.3	8.2 8.1	8.2	0.1 0.1	0.1	111.4 111.5	111.5	8.1 8.1	8.1	20.3 20.2	20.3	12 12	12.0
18-Jul-25	Rainy	09:47	Middle	0.2	29.6 29.6	29.6	7.8 7.8	7.8	0.1 0.1	0.1	101.3 101.4	101.4	7.7 7.7	7.7	8.0 8.1	8.1	26 26	26.0
21-Jul-25	Rainy	15:45	Middle	0.2	26.8 26.8	26.8	7.8 7.8	7.8	0.1 0.1	0.1	87.0 86.7	86.9	7.0 6.9	7.0	38.7 38.7	38.7	22 23	22.5
23-Jul-25	Cloudy	12:20	Middle	0.2	29.0 29.0	29.0	8.1 8.1	8.1	0.1 0.1	0.1	102.5 102.4	102.5	7.9 7.9	7.9	11.5 11.5	11.5	14 15	14.5
25-Jul-25	Cloudy	12:52	Middle	0.2	29.2 29.3	29.3	8.0 8.0	8.0	0.1 0.1	0.1	102.3 102.4	102.4	7.8 7.8	7.8	6.8 6.7	6.8	9 8	8.5
28-Jul-25	Cloudy	10:05	Middle	0.2	28.2 28.2	28.2	7.8 7.8	7.8	0.1 0.1	0.1	106.4 106.6	106.5	8.3 8.3	8.3	4.2 4.3	4.3	13 12	12.5
30-Jul-25	Cloudy	13:28	Middle	0.2	28.5 28.5	28.5	8.1 8.1	8.1	0.1 0.1	0.1	104.0 104.1	104.1	8.1 8.1	8.1	8.6 8.6	8.6	14 13	13.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-IS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	10:29	Middle	0.2	31.6 31.6	31.6	8.0 8.0	8.0	0.1 0.1	0.1	104.0 103.9	104.0	7.6 7.6	7.6	9.8 9.7	9.8	23 23	23.0
4-Jul-25	Sunny	11:51	Middle	0.3	30.9 30.9	30.9	8.0 8.0	8.0	0.1 0.1	0.1	108.5 108.5	108.5	8.1 8.1	8.1	7.9 8.0	8.0	26 25	25.5
7-Jul-25	Sunny	14:19	Middle	0.4	31.5 31.5	31.5	7.9 7.9	7.9	0.1 0.1	0.1	105.3 105.3	105.3	7.8 7.8	7.8	6.4 6.4	6.4	14 14	14.0
9-Jul-25	Sunny	10:02	Middle	0.3	29.5 29.5	29.5	8.0 8.0	8.0	0.1 0.1	0.1	78.7 78.8	78.8	6.0 6.0	6.0	5.4 5.3	5.4	11 12	11.5
11-Jul-25	Cloudy	13:40	Middle	0.2	27.4 27.4	27.4	7.8 7.8	7.8	0.1 0.1	0.1	91.2 91.2	91.2	7.2 7.2	7.2	9.8 9.8	9.8	13 13	13.0
14-Jul-25	Sunny	10:17	Middle	0.5	28.5 28.5	28.5	7.8 7.8	7.8	0.1 0.1	0.1	91.4 91.4	91.4	7.1 7.1	7.1	4.3 4.5	4.4	16 16	16.0
16-Jul-25	Sunny	14:27	Middle	0.6	31.9 31.7	31.8	8.2 8.2	8.2	0.1 0.1	0.1	84.2 84.4	84.3	6.2 6.2	6.2	5.2 5.4	5.3	14 13	13.5
18-Jul-25	Rainy	10:30	Middle	0.2	32.5 32.5	32.5	8.3 8.3	8.3	0.1 0.1	0.1	147.0 147.4	147.2	10.7 10.7	10.7	3.8 3.9	3.9	25 24	24.5
21-Jul-25	Rainy	15:13	Middle	0.3	27.0 27.0	27.0	7.9 7.9	7.9	0.1 0.1	0.1	92.0 91.9	92.0	7.3 7.3	7.3	28.0 28.2	28.1	23 23	23.0
23-Jul-25	Cloudy	11:45	Middle	0.2	29.3 29.3	29.3	7.9 7.9	7.9	0.1 0.1	0.1	97.2 97.2	97.2	7.4 7.4	7.4	8.6 8.6	8.6	15 16	15.5
25-Jul-25	Cloudy	12:28	Middle	0.3	29.5 29.5	29.5	7.9 7.9	7.9	0.1 0.1	0.1	105.0 105.1	105.1	8.0 8.0	8.0	7.9 7.9	7.9	6 7	6.5
28-Jul-25	Cloudy	10:38	Middle	0.4	28.5 28.5	28.5	7.9 7.9	7.9	0.1 0.1	0.1	101.4 101.4	101.4	7.9 7.9	7.9	4.0 4.1	4.1	11 11	11.0
30-Jul-25	Cloudy	12:39	Middle	0.3	31.0 31.0	31.0	8.1 8.1	8.1	0.1 0.1	0.1	92.9 92.9	92.9	6.9 6.9	6.9	8.6 8.6	8.6	12 12	12.0

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SHST-IS2

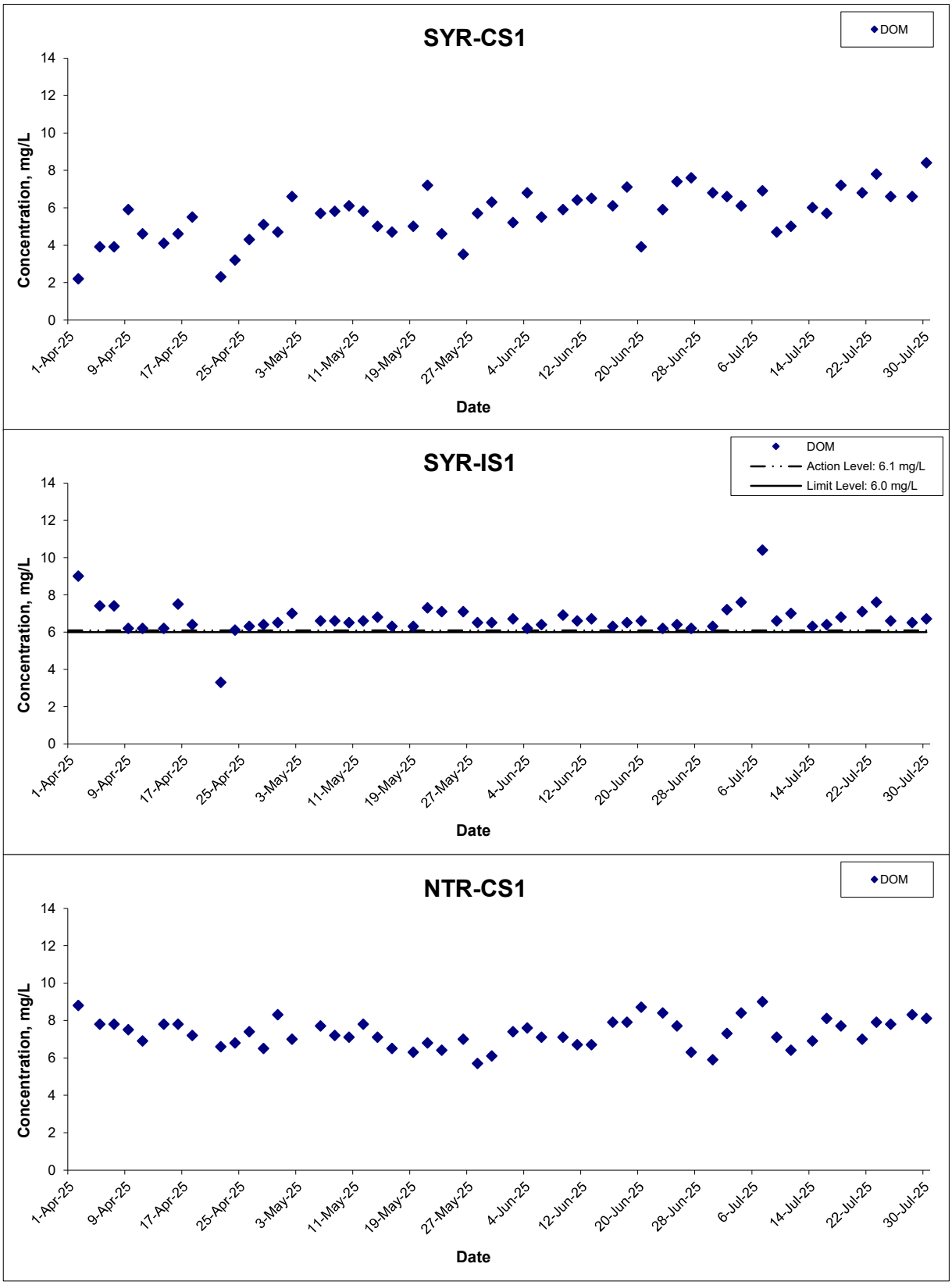
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	10:16	Middle	0.2	31.9 31.9	31.9	8.0 8.0	8.0	0.1 0.1	0.1	111.4 111.4	111.4	8.2 8.2	8.2	8.3 8.4	8.4	19 20	19.5
4-Jul-25	Sunny	11:25	Middle	0.2	27.2 27.2	27.2	8.1 8.1	8.1	0.1 0.1	0.1	91.3 91.3	91.3	7.3 7.3	7.3	11.0 11.0	11.0	23 25	24.0
7-Jul-25	Sunny	13:58	Middle	0.2	28.4 28.4	28.4	8.1 8.1	8.1	0.1 0.1	0.1	92.6 91.9	92.3	7.2 7.1	7.2	7.2 7.2	7.2	16 15	15.5
9-Jul-25	Sunny	10:10	Middle	0.2	27.7 27.7	27.7	8.5 8.5	8.5	0.1 0.1	0.1	94.9 94.2	94.6	7.5 7.4	7.5	9.8 10.1	10.0	13 13	13.0
11-Jul-25	Cloudy	13:57	Middle	0.2	27.0 27.0	27.0	7.8 7.8	7.8	0.1 0.1	0.1	92.7 92.5	92.6	7.4 7.4	7.4	14.6 14.5	14.6	15 14	14.5
14-Jul-25	Sunny	10:04	Middle	0.2	27.0 27.0	27.0	7.9 7.9	7.9	0.1 0.1	0.1	89.6 89.5	89.6	7.1 7.1	7.1	7.2 7.3	7.3	17 16	16.5
16-Jul-25	Sunny	14:09	Middle	0.2	28.8 28.7	28.8	8.6 8.6	8.6	0.1 0.1	0.1	92.7 92.7	92.7	7.2 7.2	7.2	22.8 23.4	23.1	13 14	13.5
18-Jul-25	Rainy	10:16	Middle	0.2	27.9 27.9	27.9	7.9 7.9	7.9	0.1 0.1	0.1	97.6 97.6	97.6	7.7 7.7	7.7	7.6 7.4	7.5	11 12	11.5
21-Jul-25	Rainy	15:00	Middle	0.2	26.9 26.9	26.9	7.9 7.9	7.9	0.1 0.1	0.1	88.9 88.9	88.9	7.1 7.1	7.1	29.7 30.0	29.9	24 25	24.5
23-Jul-25	Cloudy	11:35	Middle	0.2	27.2 27.2	27.2	7.9 7.9	7.9	0.1 0.1	0.1	96.9 96.8	96.9	7.7 7.7	7.7	9.4 9.4	9.4	16 17	16.5
25-Jul-25	Cloudy	12:16	Middle	0.2	27.5 27.5	27.5	7.9 7.9	7.9	0.1 0.1	0.1	92.5 92.5	92.5	7.3 7.3	7.3	7.3 7.3	7.3	7 6	6.5
28-Jul-25	Cloudy	10:55	Middle	0.2	27.0 27.0	27.0	8.0 8.0	8.0	0.1 0.1	0.1	90.9 90.9	90.9	7.2 7.2	7.2	4.7 4.7	4.7	13 14	13.5
30-Jul-25	Cloudy	12:51	Middle	0.2	31.3 31.4	31.4	8.3 8.3	8.3	0.1 0.1	0.1	103.2 103.2	103.2	7.6 7.6	7.6	7.5 7.6	7.6	11 12	11.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results MWR-IS3

Location: MWR-IS3

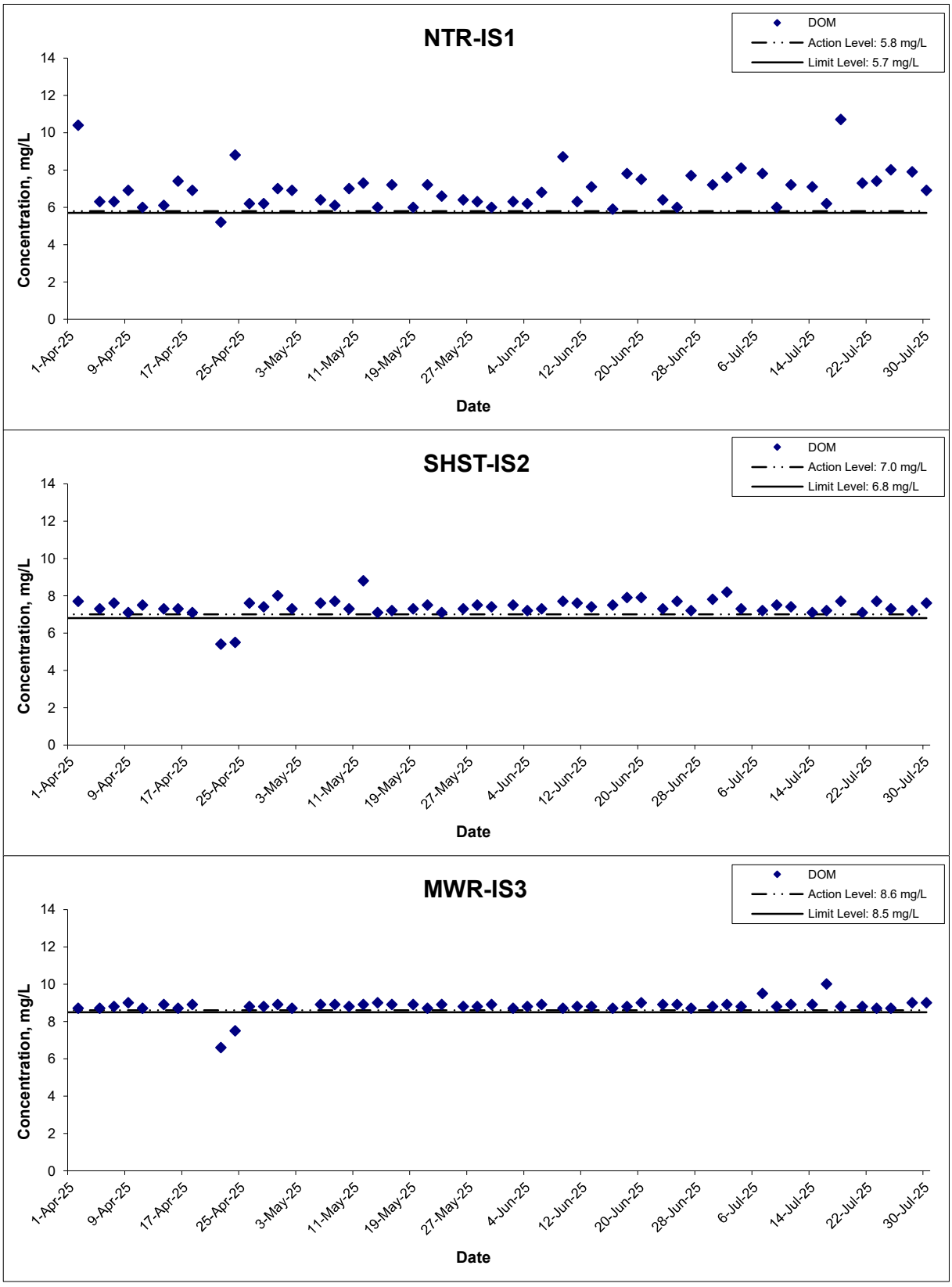
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jul-25	Sunny	11:08	Middle	0.2	31.2 31.2	31.2	8.1 8.1	8.1	0.1 0.1	0.1	119.9 119.8	119.9	8.9 8.9	8.9	8.2 8.1	8.2	15 14	14.5
4-Jul-25	Sunny	12:27	Middle	0.2	30.5 30.5	30.5	8.3 8.3	8.3	0.1 0.1	0.1	116.8 116.8	116.8	8.8 8.8	8.8	11.1 11.5	11.3	25 24	24.5
7-Jul-25	Sunny	13:02	Middle	0.2	32.7 32.7	32.7	8.3 8.2	8.3	0.1 0.1	0.1	131.5 131.8	131.7	9.5 9.5	9.5	6.4 6.2	6.3	25 26	25.5
9-Jul-25	Sunny	10:39	Middle	0.2	30.0 30.0	30.0	9.0 9.0	9.0	0.1 0.1	0.1	115.8 115.5	115.7	8.8 8.7	8.8	10.1 10.0	10.1	24 25	24.5
11-Jul-25	Cloudy	13:01	Middle	0.2	27.6 27.6	27.6	8.1 8.1	8.1	0.1 0.1	0.1	112.7 112.3	112.5	8.9 8.9	8.9	13.0 13.1	13.1	12 11	11.5
14-Jul-25	Sunny	09:09	Middle	0.2	27.8 27.8	27.8	8.1 8.0	8.1	0.1 0.1	0.1	113.2 113.1	113.2	8.9 8.9	8.9	5.2 5.1	5.2	14 13	13.5
16-Jul-25	Sunny	15:11	Middle	0.2	33.6 33.6	33.6	8.3 8.3	8.3	0.1 0.1	0.1	141.1 141.2	141.2	10.0 10.0	10.0	15.0 14.9	15.0	11 12	11.5
18-Jul-25	Rainy	09:35	Middle	0.2	29.3 29.3	29.3	8.1 8.1	8.1	0.1 0.1	0.1	115.5 115.5	115.5	8.8 8.8	8.8	4.1 4.3	4.2	13 13	13.0
21-Jul-25	Rainy	15:33	Middle	0.2	27.0 27.0	27.0	8.0 8.0	8.0	0.1 0.1	0.1	109.3 110.1	109.7	8.7 8.8	8.8	42.2 41.9	42.1	26 25	25.5
23-Jul-25	Cloudy	12:21	Middle	0.2	29.2 29.2	29.2	8.1 8.1	8.1	0.1 0.1	0.1	113.2 113.1	113.2	8.7 8.7	8.7	10.8 10.8	10.8	15 14	14.5
25-Jul-25	Cloudy	13:09	Middle	0.2	28.9 28.9	28.9	8.0 8.0	8.0	0.1 0.1	0.1	113.4 113.4	113.4	8.7 8.7	8.7	7.3 7.2	7.3	8 7	7.5
28-Jul-25	Cloudy	09:52	Middle	0.2	28.4 28.4	28.4	8.2 8.2	8.2	0.1 0.1	0.1	115.0 115.4	115.2	8.9 9.0	9.0	4.0 4.1	4.1	8 9	8.5
30-Jul-25	Cloudy	13:12	Middle	0.2	29.5 29.5	29.5	8.8 8.8	8.8	0.1 0.1	0.1	118.5 118.7	118.6	9.0 9.0	9.0	6.8 6.8	6.8	8 9	8.5

Dissolved Oxygen (Middle)



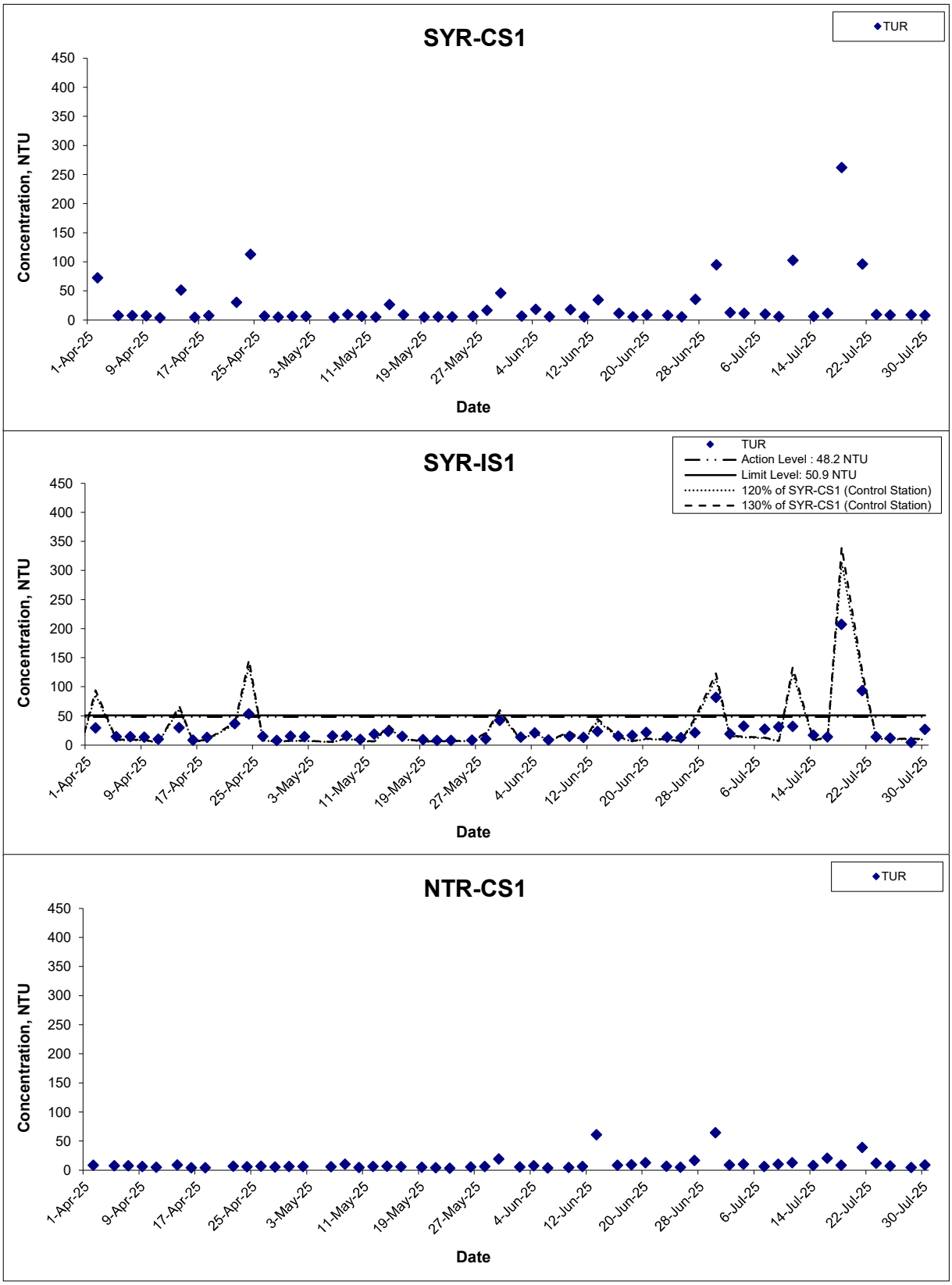
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S	Project No.: WMA20002	WELLAB 匯力 consulting . testing . research
		Date: Jul 25	Appendix: G	

Dissolved Oxygen (Middle)



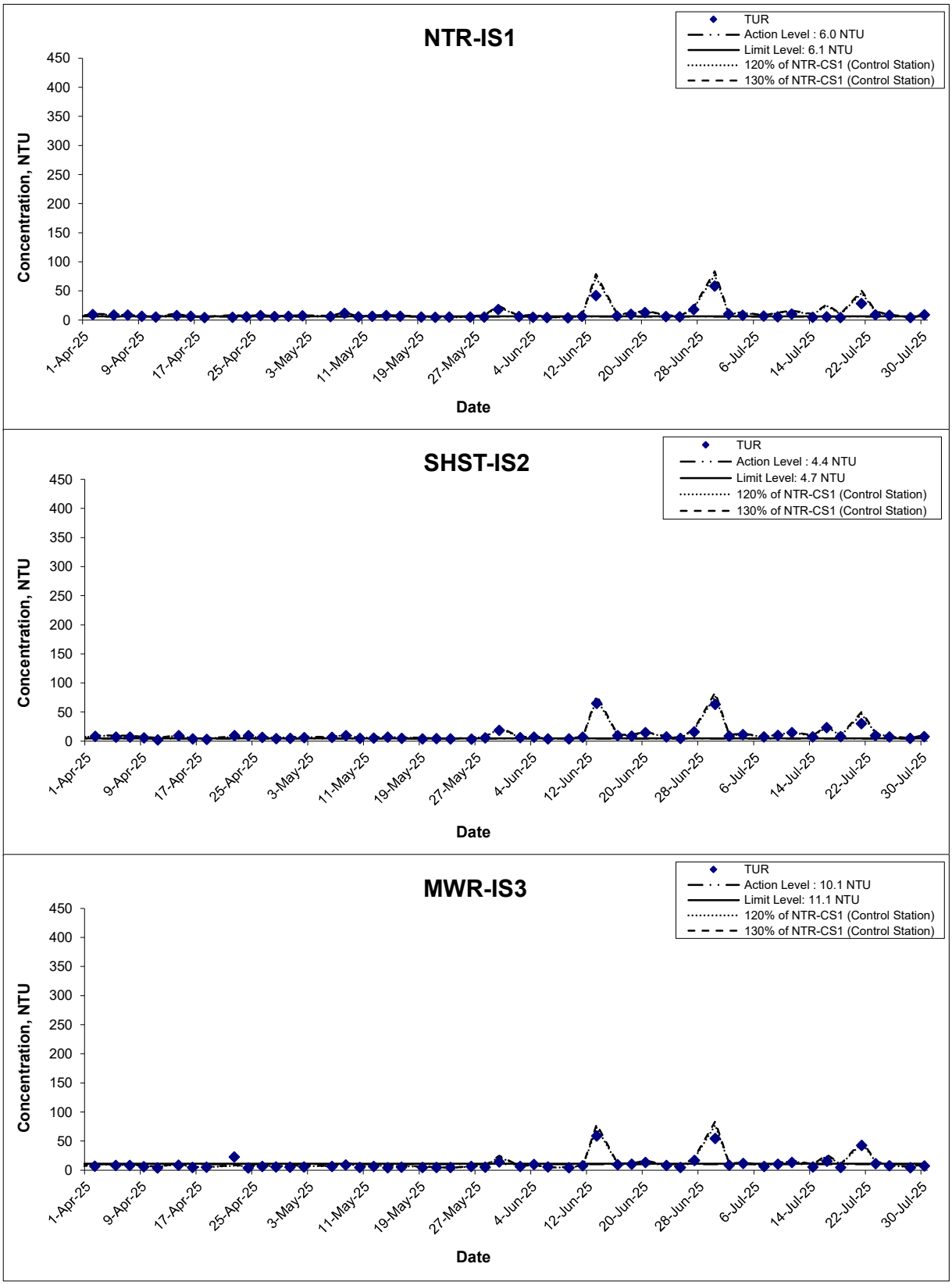
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: G	WELLAB 匯力 consulting . testing . research

Turbidity (Depth-averaged)



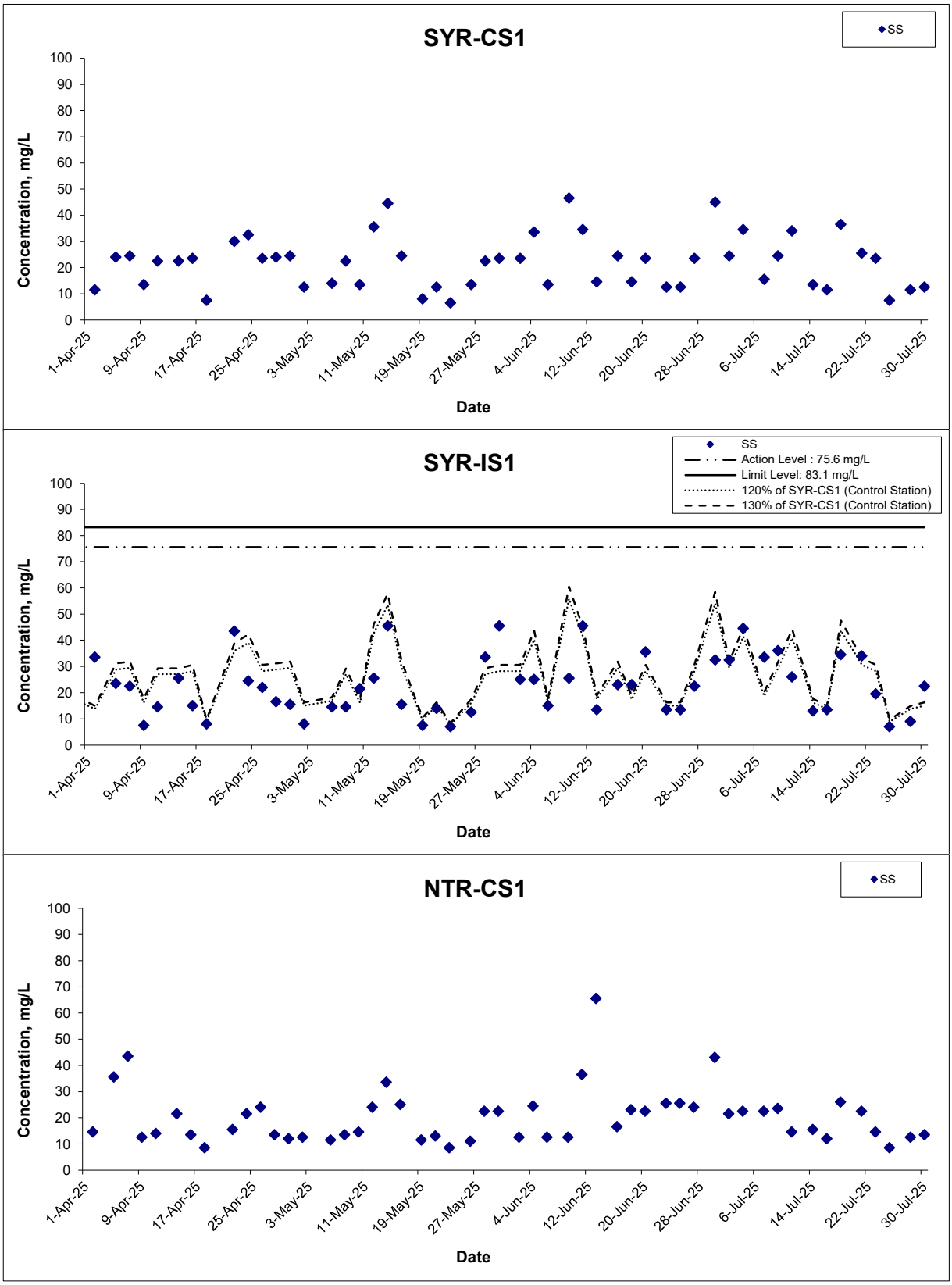
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: G	WELLAB 匯力 consulting . testing . research

Turbidity (Depth-averaged)



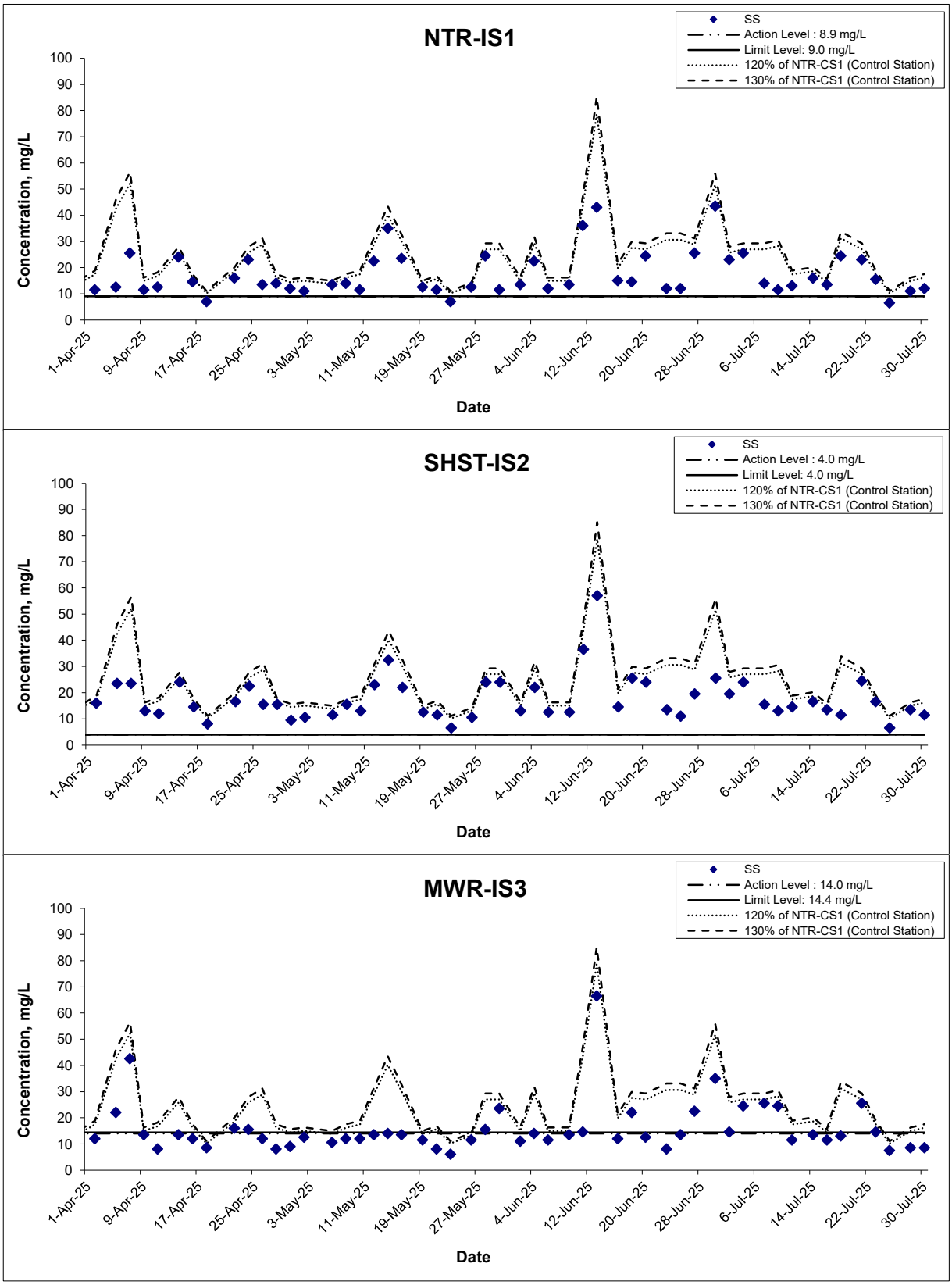
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Jul 25	Appendix G	

Suspended Solids (Depth-averaged)



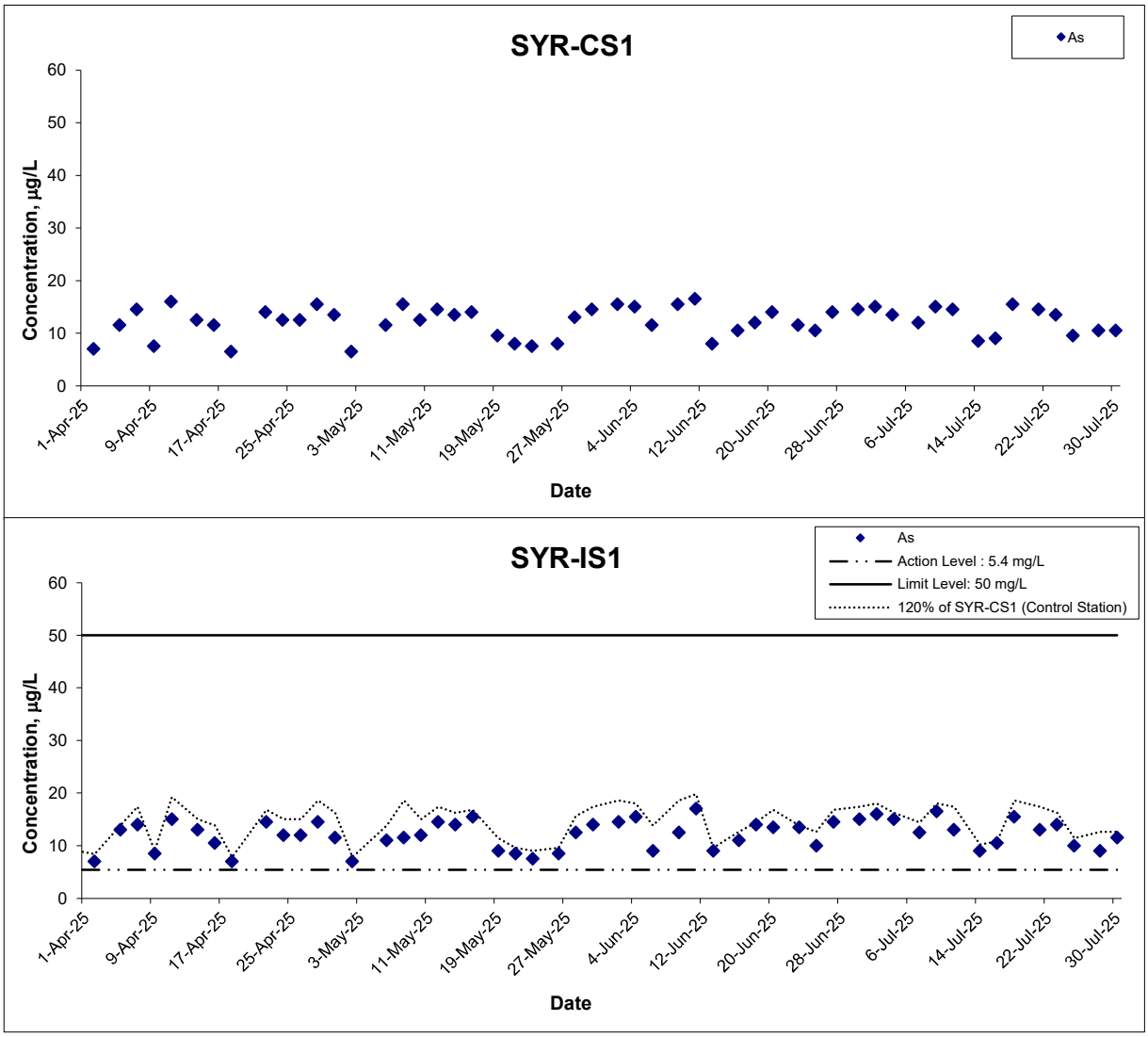
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: G	WELLAB 匯力 consulting . testing . research

Suspended Solids (Depth-averaged)



Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S	Project No.: WMA20002	WELLAB 匯力 consulting . testing . research
		Date: Jul 25	Appendix: G	

Arsenic (Depth-averaged)



Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S Date: Jul 25	Project No.: WMA20002 Appendix: G	WELLAB 匯力 consulting . testing . research

APPENDIX H
LABORATORY TESTING REPORTS FOR LABORATORY ANALYSIS

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42414
Date of Issue:	2025-07-04
Date Received:	2025-07-02
Date Tested:	2025-07-02
Date Completed:	2025-07-04
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42414
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250702
Sampling Date : 2025-07-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42414-2	42414-3	42414-5	42414-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	24	33	32
Arsenic (µg/L)	15	15	16	16

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42414A
Date of Issue:	2025-07-04
Date Received:	2025-07-02
Date Tested:	2025-07-02
Date Completed:	2025-07-04
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42414A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250702
Sampling Date : 2025-07-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42414-8	42414-9	42414-11	42414-12
Total Suspended Solids dried at 103-105°C (mg/L)	21	22	23	23

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42414-14	42414-15	42414-17	42414-18
Total Suspended Solids dried at 103-105°C (mg/L)	19	20	15	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42422
Date of Issue:	2025-07-10
Date Received:	2025-07-04
Date Tested:	2025-07-04
Date Completed:	2025-07-10
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42422
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250704
Sampling Date : 2025-07-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42422-2	42422-3	42422-5	42422-6
Total Suspended Solids dried at 103-105°C (mg/L)	35	34	44	45
Arsenic (µg/L)	13	14	15	15

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42422A
Date of Issue:	2025-07-10
Date Received:	2025-07-04
Date Tested:	2025-07-04
Date Completed:	2025-07-10
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42422A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250704
Sampling Date : 2025-07-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42422-8	42422-9	42422-11	42422-12
Total Suspended Solids dried at 103-105°C (mg/L)	22	23	26	25

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42422-14	42422-15	42422-17	42422-18
Total Suspended Solids dried at 103-105°C (mg/L)	23	25	25	24

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42448
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42448
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250707
Sampling Date : 2025-07-07

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42448-2	42448-3	42448-5	42448-6
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	33	34
Arsenic (µg/L)	12	12	12	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42448A
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42448A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250707
Sampling Date : 2025-07-07

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42448-8	42448-9	42448-11	42448-12
Total Suspended Solids dried at 103-105°C (mg/L)	22	23	14	14

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42448-14	42448-15	42448-17	42448-18
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	25	26

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42457
Date of Issue:	2025-07-15
Date Received:	2025-07-09
Date Tested:	2025-07-09
Date Completed:	2025-07-15
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42457
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250709
Sampling Date : 2025-07-09

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42457-2	42457-3	42457-5	42457-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	24	36	36
Arsenic (µg/L)	15	15	16	17

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42457A
Date of Issue:	2025-07-15
Date Received:	2025-07-09
Date Tested:	2025-07-09
Date Completed:	2025-07-15
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42457A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250709
Sampling Date : 2025-07-09

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42457-8	42457-9	42457-11	42457-12
Total Suspended Solids dried at 103-105°C (mg/L)	23	24	11	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42457-14	42457-15	42457-17	42457-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	13	24	25

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42467
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42467
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250711
Sampling Date : 2025-07-11

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42467-2	42467-3	42467-5	42467-6
Total Suspended Solids dried at 103-105°C (mg/L)	33	35	26	26
Arsenic (µg/L)	14	15	13	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42467A
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42467A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250711
Sampling Date : 2025-07-11

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42467-8	42467-9	42467-11	42467-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	15	13	13

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42467-14	42467-15	42467-17	42467-18
Total Suspended Solids dried at 103-105°C (mg/L)	15	14	12	11

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42488
Date of Issue:	2025-07-21
Date Received:	2025-07-14
Date Tested:	2025-07-14
Date Completed:	2025-07-21
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42488
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250714
Sampling Date : 2025-07-14

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42488-2	42488-3	42488-5	42488-6
Total Suspended Solids dried at 103-105°C (mg/L)	13	14	13	13
Arsenic (µg/L)	8	9	9	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42488A
Date of Issue:	2025-07-21
Date Received:	2025-07-14
Date Tested:	2025-07-14
Date Completed:	2025-07-21
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42488A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250714
Sampling Date : 2025-07-14

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42488-8	42488-9	42488-11	42488-12
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	16	16

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42488-14	42488-15	42488-17	42488-18
Total Suspended Solids dried at 103-105°C (mg/L)	17	16	14	13

Remarks: 1) < – less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42498
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42498
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250716
Sampling Date : 2025-07-16

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42498-2	42498-3	42498-5	42498-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	11	13	14
Arsenic (µg/L)	9	9	10	11

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42498A
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42498A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250716
Sampling Date : 2025-07-16

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42498-8	42498-9	42498-11	42498-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	12	14	13

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42498-14	42498-15	42498-17	42498-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	14	11	12

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42508
Date of Issue:	2025-07-24
Date Received:	2025-07-18
Date Tested:	2025-07-18
Date Completed:	2025-07-24
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42508
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250718
Sampling Date : 2025-07-18

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42508-2	42508-3	42508-5	42508-6
Total Suspended Solids dried at 103-105°C (mg/L)	36	37	34	35
Arsenic (µg/L)	15	16	16	15

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42508A
Date of Issue:	2025-07-24
Date Received:	2025-07-18
Date Tested:	2025-07-18
Date Completed:	2025-07-24
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42508A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250718
Sampling Date : 2025-07-18

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42508-8	42508-9	42508-11	42508-12
Total Suspended Solids dried at 103-105°C (mg/L)	26	26	25	24

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42508-14	42508-15	42508-17	42508-18
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	13	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42530
Date of Issue:	2025-07-25
Date Received:	2025-07-21
Date Tested:	2025-07-21
Date Completed:	2025-07-25
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42530
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250721
Sampling Date : 2025-07-21

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42530-2	42530-3	42530-5	42530-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	26	34	34
Arsenic (µg/L)	15	14	13	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42530A
Date of Issue:	2025-07-25
Date Received:	2025-07-21
Date Tested:	2025-07-21
Date Completed:	2025-07-25
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42530A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250721
Sampling Date : 2025-07-21

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42530-8	42530-9	42530-11	42530-12
Total Suspended Solids dried at 103-105°C (mg/L)	22	23	23	23

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42530-14	42530-15	42530-17	42530-18
Total Suspended Solids dried at 103-105°C (mg/L)	24	25	26	25

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42540
Date of Issue:	2025-07-29
Date Received:	2025-07-23
Date Tested:	2025-07-23
Date Completed:	2025-07-29
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42540
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250723
Sampling Date : 2025-07-23

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42540-2	42540-3	42540-5	42540-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	23	20	19
Arsenic (µg/L)	14	13	14	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42540A
Date of Issue:	2025-07-29
Date Received:	2025-07-23
Date Tested:	2025-07-23
Date Completed:	2025-07-29
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42540A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250723
Sampling Date : 2025-07-23

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42540-8	42540-9	42540-11	42540-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	15	15	16

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42540-14	42540-15	42540-17	42540-18
Total Suspended Solids dried at 103-105°C (mg/L)	16	17	15	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42549
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42549
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250725
Sampling Date : 2025-07-25

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42549-2	42549-3	42549-5	42549-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	7	7	7
Arsenic (µg/L)	10	9	10	10

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42549A
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42549A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250725
Sampling Date : 2025-07-25

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42549-8	42549-9	42549-11	42549-12
Total Suspended Solids dried at 103-105°C (mg/L)	9	8	6	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42549-14	42549-15	42549-17	42549-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	6	8	7

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42571
Date of Issue:	2025-08-01
Date Received:	2025-07-28
Date Tested:	2025-07-28
Date Completed:	2025-08-01
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42571
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250728
Sampling Date : 2025-07-28

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42571-2	42571-3	42571-5	42571-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	11	9	9
Arsenic (µg/L)	10	11	9	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42571A
Date of Issue:	2025-08-01
Date Received:	2025-07-28
Date Tested:	2025-07-28
Date Completed:	2025-08-01
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42571A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250728
Sampling Date : 2025-07-28

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42571-8	42571-9	42571-11	42571-12
Total Suspended Solids dried at 103-105°C (mg/L)	13	12	11	11

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42571-14	42571-15	42571-17	42571-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	14	8	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42581
Date of Issue:	2025-08-01
Date Received:	2025-07-30
Date Tested:	2025-07-30
Date Completed:	2025-08-01
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42581
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250730
Sampling Date : 2025-07-30

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42581-2	42581-3	42581-5	42581-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	22	23
Arsenic (µg/L)	10	11	11	12

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42581A
Date of Issue:	2025-08-01
Date Received:	2025-07-30
Date Tested:	2025-07-30
Date Completed:	2025-08-01
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42581A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250730
Sampling Date : 2025-07-30

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42581-8	42581-9	42581-11	42581-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	13	12	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42581-14	42581-15	42581-17	42581-18
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	8	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

APPENDIX I
QUALITY CONTROL REPORTS FOR SS AND ARSENIC LABORATORY ANALYSIS

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42414
Date of Issue:	2025-07-04
Date Received:	2025-07-02
Date Tested:	2025-07-02
Date Completed:	2025-07-04
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	94	96	80-120
Arsenic (%)	96	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	98	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	5	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42414.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42422
Date of Issue:	2025-07-10
Date Received:	2025-07-04
Date Tested:	2025-07-04
Date Completed:	2025-07-10
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	105	98	80-120
Arsenic (%)	98	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	89	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	7	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42422.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42448
Date of Issue:	2025-07-11
Date Received:	2025-07-07
Date Tested:	2025-07-07
Date Completed:	2025-07-11
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	98	80-120
Arsenic (%)	106	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	88	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	2	RPD≤5%
Arsenic (%)	3	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42448.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42457
Date of Issue:	2025-07-15
Date Received:	2025-07-09
Date Tested:	2025-07-09
Date Completed:	2025-07-15
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	103	106	80-120
Arsenic (%)	98	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	4	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42457.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42467
Date of Issue:	2025-07-17
Date Received:	2025-07-11
Date Tested:	2025-07-11
Date Completed:	2025-07-17

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	105	96	80-120
Arsenic (%)	96	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	3	RPD≤5%
Arsenic (%)	1	N/A	RPD<20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42467.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42488
Date of Issue:	2025-07-21
Date Received:	2025-07-14
Date Tested:	2025-07-14
Date Completed:	2025-07-21
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	97	103	80-120
Arsenic (%)	101	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	92	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD<5%
Arsenic (%)	3	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42488.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42498
Date of Issue:	2025-07-22
Date Received:	2025-07-16
Date Tested:	2025-07-16
Date Completed:	2025-07-22
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	96	94	80-120
Arsenic (%)	95	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	95	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	3	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42498.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	QC42508
Date of Issue:	2025-07-24
Date Received:	2025-07-18
Date Tested:	2025-07-18
Date Completed:	2025-07-24
Page:	1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	103	98	80-120
Arsenic (%)	101	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	91	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	7	N/A	RPD<20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42508.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42530
Date of Issue:	2025-07-25
Date Received:	2025-07-21
Date Tested:	2025-07-21
Date Completed:	2025-07-25

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	95	98	80-120
Arsenic (%)	103	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	92	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	3	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42530.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	QC42540
Date of Issue:	2025-07-29
Date Received:	2025-07-23
Date Tested:	2025-07-23
Date Completed:	2025-07-29
Page:	1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	103	101	80-120
Arsenic (%)	92	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	94	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42540.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB 匯力
consulting . testing . research

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	QC42549
Date of Issue:	2025-07-31
Date Received:	2025-07-25
Date Tested:	2025-07-25
Date Completed:	2025-07-31
Page:	1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	94	96	80-120
Arsenic (%)	102	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	94	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42549.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax :2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42571
Date of Issue:	2025-08-01
Date Received:	2025-07-28
Date Tested:	2025-07-28
Date Completed:	2025-08-01
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	96	80-120
Arsenic (%)	94	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	91	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	3	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42571.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

WELLAB LIMITED
Room 1808, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

WELLAB 匯力
consulting . testing . research

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1808, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42581
Date of Issue:	2025-08-01
Date Received:	2025-07-30
Date Tested:	2025-07-30
Date Completed:	2025-08-01
Page:	1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	92	99	80-120
Arsenic (%)	103	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	89	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42581.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

This report may not be reproduced, except in full, without prior written approval from WELLAB LIMITED and the results relate only to the items calibrated or tested. ONLY the laboratory's certified true copy is valid.

APPENDIX J
LANDFILL GAS MONITORING RESULTS

堆填區附近區域(Consultation Zone)每月氣體監察記錄

			氧氣 O2	甲烷 CH4	二氧化碳 CO_2
日期及時間	位置	氣體及安全標準	>19%	<10% LEL	<0.5%
8-7-2025 9:26	CZ PT 1		20.90	0.00	0.00
8-7-2025 9:28	CZ container 1		20.90	0.00	0.00
8-7-2025 9:20	CZ container 2		20.90	0.00	0.00
8-7-2025 9:22	CZ container 3		20.90	0.00	0.00
8-7-2025 9:24	CZ container 4		20.90	0.00	0.00
8-7-2025 9:30	CZ container 5		20.90	0.00	0.00

Prepared by : Y.S. LIU (Safety Officer) Date : 8-7-2025

APPENDIX K
BUILT HERITAGE MONITORING RESULTS

No construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works.

APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 3 & 4 July 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)			
					Weather Condition					Sunny, Sunny			
					Tidal Condition					High			
					Tide Level (m)					1.84, 1.62			
					Start Time					7:00, 14:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										7
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						8			2	
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC						34			1
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						1				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3	2	8	1	1	7			3
Common Moorhen	*Gallinula chloropus*	黑水雞	R							5			
Crested Myna	*Acridotheres cristatellus*	八哥	R		1		2		4				7
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)				1					
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		2				33				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)			9						
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						1			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1	2	3						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	1	2	22		2	5			2
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							2		
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						1				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						4				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.84, 1.62					
					Start Time			7:00, 14:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						3				
Rock Dove	*Columba livia*	原鴿	R			38			12				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						15				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2				3			1	
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				1						
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R							5		1	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						13				
Total No. of Species					6	4	6	2	14	6	1	3	5
Total No. of Conservation Interest Species					3	3	4	2	3	4	1	0	3

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
VU(R) Vulnerable in Red List of China Vertebrate
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.84, 1.62					
					Start Time			7:00, 14:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)) WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond													

Appendix L1b. Avifauna Species Recorded for Water Birds Monitoring, 3 & 4 July 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)					
					Weather Condition			Sunny, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.18					
					Start Time			10:00, 10:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC	1								
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						7			2	4
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC						32		2	4
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						6				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3	5	6		3	4			1
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			4						
Common Myna	*Acridotheres tristis*	家八哥	UR						1				
Crested Myna	*Acridotheres cristatellus*	八哥	R						5				4
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		9				54				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		2	12						
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1	1	4						
Grey Wagtail	*Motacilla cinerea*	灰鶺鴒	WV			1							
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	2	4	22		4	3			2
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						13				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						1				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						6			1	
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵐	R						4				4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)					
					Weather Condition			Sunny, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.18					
					Start Time			10:00, 10:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Rock Dove	*Columba livia*	原鴿	R			17			9				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						4				13
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		4		4		6				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R							2		1	
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R				1					1	
Total No. of Species					6	6	7	0	14	4	0	5	7
Total No. of Conservation Interest Species					4	4	5	0	2	3	0	1	3

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
VU(R) Vulnerable in Red List of China Vertebrate
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			4/7/2025 (T1 & T2), 3/7/2025 (T3 & T5)					
					Weather Condition			Sunny, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.18					
					Start Time			10:00, 10:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond													

Appendix L1c. Avifauna Species Recorded for Water Birds Monitoring, 11 & 10 July 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			11/7/2025 (T1 & T2), 10/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Rainy					
					Tidal Condition			High					
					Tide Level (m)			2.34, 2.68					
					Start Time			12:00, 10:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										5
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						1				1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R				1		2				3
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC	2	1							
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				5		46			9
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R										3
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	5		3	5	6	7			1
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			1						1
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R										1
Common Moorhen	*Gallinula chloropus*	黑水雞	R							5			
Common Myna	*Acridotheres tristis*	家八哥	UR										
Crested Myna	*Acridotheres cristatellus*	八哥	R				5		20				12
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R				6		80				20
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	2	8		1	7			6
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						2			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1	2	4						1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			11/7/2025 (T1 & T2), 10/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Rainy					
					Tidal Condition			High					
					Tide Level (m)			2.34, 2.68					
					Start Time			12:00, 10:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	7	6	11	1	3	3			2
Little Grebe	*Tachybaptus ruficollis*	小鸊鷉	R	LC							1		
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R			1			2				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						1				
Plain Prinia	*Prinia inornata*	純色鱂鶯	R						4				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R			20			22				5
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						30				20
Sooty-headed Bulbul	*Pycnonotus aurigaster*	白喉紅臀鵯	UR						2				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R						5				4
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV						2				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1		5				2
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						5				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)					1				
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						2			
Total No. of Species					5	6	9	3	19	7	1	0	17
Total No. of Conservation Interest Species					5	4	5	3	4	6	1	0	6

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1d. Avifauna Species Recorded for Water Birds Monitoring, 11 & 10 July 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			11/7/2025 (T1 & T2), 10/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.21, 1.30					
					Start Time			15:00, 14:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									1	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						2				
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R				1		5			5	2
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC		2							
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				4		30			8
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						4				2
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2		3	6	5	2			4
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			1						
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R										
Common Moorhen	*Gallinula chloropus*	黑水雞	R							7			1
Common Myna	*Acridotheres tristis*	家八哥	UR										
Crested Myna	*Acridotheres cristatellus*	八哥	R			1	5		39				3
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		2		6		64				13
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	4	5	8			2			7
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			11/7/2025 (T1 & T2), 10/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.21, 1.30					
					Start Time			15:00, 14:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						6			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1	3	4						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	5	11		2	4			
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							1		
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R						8				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						8				
Plain Prinia	*Prinia inornata*	純色鵲鶯	R						5			2	
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R			17			17				1
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						22				6
Sooty-headed Bulbul	*Pycnonotus aurigaster*	白喉紅臀鵯	UR										
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1				8				3
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R										
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV						3				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1		2				1
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						20				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)					2				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			11/7/2025 (T1 & T2), 10/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Rainy					
					Tidal Condition			Low					
					Tide Level (m)			1.21, 1.30					
					Start Time			15:00, 14:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						1			
Total No. of Species					6	6	9	2	19	7	1	3	12
Total No. of Conservation Interest Species					4	4	5	2	4	6	1	0	3

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1e. Avifauna Species Recorded for Water Birds Monitoring, 18 & 17 July 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/7/2025 (T1 & T2), 17/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.65					
					Start Time			14:00, 12:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										7
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2	1	2		10				4
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				2		45			3
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	2	3	5	1	1			2
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			2						
Crested Myna	*Acridotheres cristatellus*	八哥	R		1	1	2		1				5
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						15				8
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	3	3			1			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1	1	3		1				
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	2	4		3	3			
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							3		
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R						1				
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										7
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						1				
Rock Dove	*Columba livia*	原鴿	R			15	1		7				4
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	4			1				2

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/7/2025 (T1 & T2), 17/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.65					
					Start Time			14:00, 12:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				2		1				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R							2			
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)	1			1	1				1
Total No. of Species					8	8	9	3	12	5	1	0	10
Total No. of Conservation Interest Species					5	4	5	3	4	4	1	0	3

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1f. Avifauna Species Recorded for Water Birds Monitoring, 18 & 17 July, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/7/2025 (T1 & T2), 17/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.90, 0.96					
					Start Time			11:00, 9:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										6
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		1	1	2		5				10
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				5	2	36			6
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	3	2	6	1	5			1
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU	1		3						1
Common Moorhen	*Gallinula chloropus*	黑水雞	R							2			
Common Myna	*Acridotheres tristis*	家八哥	UR						2				
Crested Myna	*Acridotheres cristatellus*	八哥	R		2	3	4		3				4
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		1	2			50				20
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	1	4		2	3			1
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	2	2	4		2				1
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	5	2	5	2	5	1			2
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							2		
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R						1				1
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						4				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1				1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/7/2025 (T1 & T2), 17/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.90, 0.96					
					Start Time			11:00, 9:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										2
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R		1	9	2		10				6
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						15				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	1	1		4				1
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				3		2				1
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1		2	2			2
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1	1		1				1
Total No. of Species					11	10	12	3	20	6	1	0	17
Total No. of Conservation Interest Species					5	5	6	3	6	4	1	0	7

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/7/2025 (T1 & T2), 17/7/2025 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.90, 0.96					
					Start Time			11:00, 9:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1g. Avifauna Species Recorded for Water Birds Monitoring, 23 & 22 July 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.42					
					Start Time			10:00, 09:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv				2						7
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						1				
Black Kite	*Milvus migrans*	黑鳶	R, WV	(RC), Cap. 586	1								1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R			2	4		11				1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				3		53			6
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						1				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	2	4	4		2			2
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC						2			
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R										1
Common Moorhen	*Gallinula chloropus*	黑水雞	R							1			
Common Myna	*Acridotheres tristis*	家八哥	UR						2				
Crested Myna	*Acridotheres cristatellus*	八哥	R		2	1	1		8	1			1
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R				4		48				17
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	2	3			1			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1		1				
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	2	3	3						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.42					
					Start Time			10:00, 09:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC						1			
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	4	12	1	6	2			4
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							1		
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R						1				
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R						12				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						4				
Rock Dove	*Columba livia*	原鴿	R			10			24				5
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						25				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	2	4		12				5
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				1		5				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R						1	2		1	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						3				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)	1		1		3				1
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC				5		2			
Total No. of Species					8	8	12	4	18	10	1	1	12
Total No. of Conservation Interest Species					6	4	5	4	2	7	1	0	5
Note:													

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.42					
					Start Time			10:00, 09:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1h. Avifauna Species Recorded for Water Birds Monitoring, 23 & 22 July 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			1.40, 0.97					
					Start Time			13:00, 13:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										16
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2		2		7				1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			5			35			14
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	3	10			2			
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU		1	2						
Common Moorhen	*Gallinula chloropus*	黑水雞	R							3			
Common Myna	*Acridotheres tristis*	家八哥	UR						1				
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM										
Crested Myna	*Acridotheres cristatellus*	八哥	R		2	1	1		14				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						90				6
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	3	7			1			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	2	1	4						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	2	25		1	13			2
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							1		
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R						4				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)			
					Weather Condition					Fine, Overcast			
					Tidal Condition					Low			
					Tide Level (m)					1.40, 0.97			
					Start Time					13:00, 13:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						2				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						3				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R		1	7			33				1
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						40				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	3	2		6				5
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				2		1				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1			2			
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						5				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)			3		2				
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						13			
Total No. of Species					8	8	13	0	15	7	1	0	7
Total No. of Conservation Interest Species					4	5	7	0	2	5	1	0	2

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			23/07/2025 (T1 & T2), 22/07/2025 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			1.40, 0.97					
					Start Time			13:00, 13:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1i. Avifauna Species Recorded for Water Birds Monitoring, 29 & 31 July 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.15, 1.67					
					Start Time			11:00, 12:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										15
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		1				5				12
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				20		44		2	3
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	4	3	1	3	10			3
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			1			2			1
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R		1				1	1			1
Common Moorhen	*Gallinula chloropus*	黑水雞	R						1	4			
Common Myna	*Acridotheres tristis*	家八哥	UR				2		2				
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM				1						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM										
Crested Myna	*Acridotheres cristatellus*	八哥	R		1	1	4		7				11
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		1	1	3		65				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	2	4		1	3			1
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	4	1	5						1
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	4	3	22		4	2			5
Little Grebe	*Tachybaptus ruficollis*	小鷿鷉	R	LC							2		

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.15, 1.67					
					Start Time			11:00, 12:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R						1				1
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R						4				
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										2
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R			8			15				2
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	2	8		6			3	13
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV		2		1		2				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1	4				1
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1	1		2				1
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						2			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						2				
Total No. of Species					10	9	13	3	18	8	1	2	16
Total No. of Conservation Interest Species					4	4	6	2	4	6	1	1	7

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.15, 1.67					
					Start Time			11:00, 12:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1i. Avifauna Species Recorded for Water Birds Monitoring, 29 & 31 July 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.04, 1.05					
					Start Time			8:00, 8:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										12
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		1		1		7				11
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			3	15		53			5
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3	2	4		2	9			6
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC						2			
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R		1								1
Common Moorhen	*Gallinula chloropus*	黑水雞	R							5			
Common Myna	*Acridotheres tristis*	家八哥	UR				2						
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM				1						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM										
Crested Myna	*Acridotheres cristatellus*	八哥	R			2	3		5				15
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		1	2	12		200				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	3	2	7			1			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	2	2	6						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	4	27		3	5			3
Little Grebe	*Tachybaptus ruficollis*	小鷿鷉	R	LC							1		
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R						1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.04, 1.05					
					Start Time			8:00, 8:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R					1	5				
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										1
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R				2						
Rock Dove	*Columba livia*	原鴿	R			9			20				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	2	1		5				11
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1	1	2	2		2
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1			3				1
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						1			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						5				
Total No. of Species					8	9	12	3	12	8	2	0	11
Total No. of Conservation Interest Species					4	5	5	1	3	6	1	0	4

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/07/2025 (T1 & T2), 31/07/2025 (T3 & T5)					
					Weather Condition			Cloudy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.04, 1.05					
					Start Time			8:00, 8:00					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1j, Waterbirds Recorded in July 2025

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	LC	T1: River bank, In flight T2: River bank	Common resident and winter visitor. Widely distributed in Hong Kong.
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	RC	T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Heard, In flight	Common passage migrant. Found in Deep Bay area, Long Valley, Kam Tin.
Chinese Pond Heron	*Ardeola bacchus*	池鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in Hong Kong.
Common Greenshank	*Tringa nebularia*	青腳鷸	RC	T3: River bank, River bed, in flight T5: Shallow Water Habitat, In flight	Abundant winter visitor and migrant. Found in Deep Bay area.
Common Kingfisher	*Alcedo atthis*	普通翠鳥		T1: River bank T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common passage migrant and winter visitor. Widely distributed in wetland habitat throughout Hong Kong.
Common Moorhen	*Gallinula chloropus*	黑水雞		T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common winter visitor, resident and migrant. Found in Deep Bay area, Shuen Wan, Starling Inlet.
Common Sandpiper	*Actitis hypoleucos*	磯鷸		T3: River bank	Common passage migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	(LC)	T5: Wet Agricultural Land	Resident and common passage migrant. Widely distributed in Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Great Egret	*Ardea alba*	大白鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident and winter visitor. Widely distributed in Hong Kong.
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	LC	T5: Shallow Water Habitat	Locally common resident. Found in Ha Tsuen, Lok Ma Chau, Kam Tin, Long Valley, Hong Kong Wetland Park.
Green Sandpiper	*Tringa ochropus*	白腰草鷸		T3: River bank T5: Dry Agricultural Land	Common migrant and winter visitor. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Shek Kong, Ho Chung.
Grey Heron	*Ardea cinerea*	蒼鷺	PRC	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight T5: Dry Agricultural Land, In flight	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.
Intermediate Egret	*Ardea intermedia*	中白鷺	RC	T5: Shallow Water Habitat	Resident and passage migrant. Found in Deep Bay area, Tai Long Wan, Starling Inlet, Tai O, Cap D'Aguilar.
Little Egret	*Egretta garzetta*	小白鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in coastal area throughout Hong Kong.
Little Grebe	*Tachybaptus ruficollis*	小鸊鷉	LC	T5: Pond	Common resident. Found in Deep Bay area.
Striated Heron	*Butorides striata*	綠簑鷺	LC(R)	T3: River bank	Common summer visitor. Widely distributed in Hong Kong.
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥		T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, Heard, In flight	Common resident. Widely distributed in wetland throughout Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	(LC)	T1: River bank, In flight T2: River bank, In flight T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, In flight	Common resident. Widely distributed in coastal areas throughout Hong Kong.
Wood Sandpiper	*Tringa glareola*	林鷸	LC	T5: Wet Agricultural Land, Shallow Water Habitat	Common migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.

Note:
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
VU(R) Vulnerable in Red List of China Vertebrate
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
*Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)

Appendix L1k. Birds Recorded in July 2025

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Asian Koel	*Eudynamys scolopacea*	噪鵑	R	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv	
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv	
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R	
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R	
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R	
Common Moorhen	*Gallinula chloropus*	黑水雞	R	
Common Myna	*Acridotheres tristis*	家八哥	UR	
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM	
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM	
Crested Myna	*Acridotheres cristatellus*	八哥	R	
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R	
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV	
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC
Grey Wagtail	*Motacilla cinerea*	灰鶺鴒	WV	
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)
Little Grebe	*Tachybaptus ruficollis*	小鷿鷈	R	LC
Long-tailed Shrike	*Lanius schach*	棕背伯勞	R	
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R	
Plain Prinia	*Prinia inornata*	純色鵐鶯	R	
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM	
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R	
Rock Dove	*Columba livia*	原鴿	R	
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R	
Sooty-headed Bulbul	*Pycnonotus aurigaster*	白喉紅臀鵯	UR	
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R	
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R	
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV	
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R	

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
VU(R) Vulnerable in Red List of China Vertebrate
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))

Appendix L2. Freshwater Macroinvertebrate Species Recorded for Aquatic Fauna Monitoring, 15 July, 2025

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 15 July 2025									
				Weather: Overcast									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
Apple Snail	*Pomacea canaliculata*	-	Introduced								+		+
Bladder Snail	*Physella acuta*	-	-			+	+		+				
Atyid shrimp	*Caridina* sp.	-	-										
Blood Worm	*Chironomidae*	-	-		+		+						+
Chinese River Snail	*Sinotaia quadrata*	-	Native		+	+				+			+
	Sinotaia guangdungensis	-	Native			+	+		+		+		+
Common Red Skimmer	*Orthetrum pruinosum*	-	Native			+							
Freshwater Snail	*Radix plicatulus*	-	-		+	+			+	+	+	+	
Golden Freshwater Clam	*Corbicula fluminea*	-	Native									+	
Indigo Dropwing	*Trithemis festiva*	-	Native				+						
Leech	*Hirudinea*	-	-										
Ram's Horn Snail	*Gyraulus convexiusculus*	-	Introduced			++							
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced								++	+	+
Water Strider	*Metrocoris sp.*	-	-						+		+	+	+
	Microvelia sp.	-	-								+		+
	Ptilomera tigrina	-	Native						+		+	+	
	Rhagovelia sp.	-	-								+		

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 15 July 2025									
				Weather: Overcast									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
Yellow Featherleg	*Copera marginipes*	-	Native			+				+		+	
Total No. of species				0	3	7	4	0	5	3	8	6	7
Total No. of Conservation Interest Species				0	0	0	0	0	0	0	0	0	0
Total No. of Native Species				0	1	4	2	0	2	2	2	3	2

Note: *: dried-up station
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)
LC = Local Concern (Fellowes et al. (2002))

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 15 July 2025				
				Weather: Overcast				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12	MS_13	MS_14	MS_15
Apple Snail	*Pomacea canaliculata*	-	Introduced		++	++	+	++
Bladder Snail	*Physella acuta*	-	-			+		+
Atyid shrimp	*Caridina* sp.	-	-				+	
Blood Worm	*Chironomidae*	-	-	+				
Chinese River Snail	*Sinotaia quadrata*	-	Native			+		
	Sinotaia guangdungensis		Native			+		+
Common Red Skimmer	*Orthetrum pruinosum*	-	Native	+				
Freshwater Snail	*Radix plicatulus*	-	-		+		+	+
Golden Freshwater Clam	*Corbicula fluminea*	-	Native			+		
Leech	*Hirudinea*	-	-					+
Ram's Horn Snail	*Gyraulus convexiusculus*	-	Introduced				+	
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced			+	+	
Total No. of species				2	2	6	5	5
Total No. of Conservation Interest Species				0	0	0	0	0
Total No. of Native Species				1	0	3	0	1

Note: *: dried-up station
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Appendix L3. Freshwater Fish Species Recorded for Aquatic Fauna Monitoring, 15 July, 2025

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 15 July 2025									
				Weather: Overcast									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
Mosquito Fish	*Gambusia affinis*	-	Introduced			+						+	+
Mozambique Tilapia	*Oreochromis mossambicus*	VU	Introduced						+				
Nile Tilapia	*Oreochromis niloticus*	-	Introduced						+		+		
Redbelly Tilapia	*Tilapia zillii*	-	Introduced								+		
Total No. of species				0	0	1	1	0	3	1	2	1	1
Total No. of Conservation Interest Species				0	0	0	0	0	1	0	0	0	0
Total No. of Native Species				0	0	0	0	0	0	0	0	0	0

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Species.

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 15 July 2025				
				Weather: Overcast				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12	MS_13	MS_14	MS_15
Mosquito Fish	*Gambusia affinis*	-	Introduced			+		
Mozambique Tilapia	*Oreochromis mossambicus*	VU	Introduced					+
Nile Tilapia	*Oreochromis niloticus*	-	Introduced					+
Redbelly Tilapia	*Tilapia zillii*	-	Introduced			+		
Total No. of species				0	0	2	0	2
Total No. of Conservation Interest Species				0	0	0	0	1
Total No. of Native Species				0	0	0	0	0

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Species.

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Appendix L4. Mammal Species Recorded for Ecologically Sensitive Habitat Monitoring, 28 & 30 July 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Domestic Cat	*Felis catus*	野貓	-	Introduced	+	+			
Domestic Dog	*Canis lupus familiaris*	野狗	-	Introduced	+			+	+
Japanese Pipistrelle	*Pipistrellus abramus*	東亞家蝠	Cap. 170	Native	+++	+++	+++	+++	+++
Total No. of species					3	2	1	2	2
Total No. of Conservation Interest Species					1	1	1	1	1
Total No. of Native Species					1	1	1	1	1

Note:

Cap. 170: Species under protection of Wild Animals Protection Ordinance (Cap. 170)

(NT): Near Threatened in the Red List of China's Vertebrates

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)

+: species recorded within transect routes

++: species commonly recorded within transect routes

+++: dominant species within transect routes

Appendix L5. Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 28 & 30 July 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Amphibian									
Asian Common Toad	*Bufo melanostictus*	黑眶蟾蜍	-	Native			+	++	
Asiatic Painted Forg	*Kaloula pulchra pulchra*	花狹口蛙	-	Native					+
Brown Tree Frog	*Polypedates megacephalus*	斑腿泛樹蛙	-	Native				+	
Butler's Pigmy Frog	*Microhyla butleri*	粗皮姬蛙	-	Native	++				
Gunther's Frog	*Hylarana guentheri*	沼蛙	-	Native	+++			+++	
Marbled Pigmy Frog	*Microhyla pulchra*	花姬蛙	-	Native	+				
Ornate Pigmy Frog	*Microhyla fissipes*	飾紋姬蛙	-	Native	++			+	
Paddy Frog	*Fejervarya limnocharis*	澤蛙	-	Native	+++				
Reptile									
Bowring's Gecko	*Hemidactylus bowringii*	原尾蜥虎	-	Native	++	+			
Chinese gecko	*Gekko chinensis*	中國壁虎	-	Native	+	+	+		+
Long-tailed Skink	*Eutropis longicaudata*	長尾南蜥	-	Native	+	+			
Total No. of species					8	3	2	4	2
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					8	3	2	4	2

Note: Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org) (EN): Endangered in Red List of China Vertebrates (NT): Near Threatened in Red List of China Vertebrates

+: species recorded within transect routes ++: species commonly recorded within transect routes +++: dominant species within transect routes

Appendix L6. Butterfly Species Recorded Ecologically Sensitive Habitat Monitoring, 28 & 30 July 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Angled Castor	*Ariadne ariadne*	波蛺蝶	-	-	+	+	+		
Banded Tree Brown	*Lethe confusa*	白帶黛眼蝶	-	-	+				
Blue-spotted Crow	*Euploea midamus*	藍點紫斑蝶	-	-	++		+		
Common Archduke	*Lexias pardalis*	小豹律蛺蝶	-	-				++	
Common Bluebottle	*Graphium sarpedon*	青鳳蝶	-	-	+				
Common Grass Yellow	*Eurema hecabe*	寬邊黃粉蝶	-	-	+		+	+	+
Common Indian Crow	*Euploea core*	幻紫斑蝶	-	-	+				
Common Mapwing	*Cyrestis thyodamas*	網絲蛺蝶	-	-				+	+
Common Mormon	*Papilio polytes*	玉帶鳳蝶	-	-	+++	+	+++	+	+
Common Palmfly	*Elymnias hypermnestra*	翠袖鋸眼蝶	-	-				+	
Common Sailer	*Neptis hylas*	中環蛺蝶	-	-	+			+	+
Conjoined Swift	*Pelopidas conjunctus*	古銅穀弄蝶	R	-	+				
Dark Brand Bush Brown	*Mycalesis mineus*	小眉眼蝶	-	-	+	+		++	+
Five-bar Swordtail	*Pathysa antiphates*	綠鳳蝶	-	-	+			+	
Five-dot Sergeant	*Parathyma sulpitia*	殘鍔線蛺蝶	-	-				+	
Glassy Tiger	*Parantica aglea*	絹斑蝶	-	-	+				
Great Egg-fly	*Hypolimnas bolina*	幻紫斑蛺蝶	-	-	+++	+	+++	+	+
Great Mormon	*Papilio memnon*	美鳳蝶	-	-	+++	+	+	++	+
Great Orange Tip	*Hebomoia glaucippe*	鶴頂粉蝶	-	-			+		
Indian Cabbage White	*Pieris canidia*	東方菜粉蝶	-	-	+		+	+	

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Large Faun	*Faunis eumeus*	串珠環蝶	-	-	+		+		
Lemon Emigrant	*Catopsilia pomona*	遷粉蝶	-	-			++		
Pale Grass Blue	*Pseudozizeeria maha*	酢漿灰蝶	-	-	+++	+	+++	++	+
Paris Peacock	*Papilio paris*	巴黎翠鳳蝶	-	-	+	+		+	+
Plum Judy	*Abisara echerius*	蛇目褐蜆蝶	-	-		+		+	
Red Ring Skirt	*Hestina assimilis*	黑脈蛺蝶	-	-	+				+
Red-base Jezebel	*Delias pasithoe*	報喜斑粉蝶	-	-				+	
Rustic	*Cupha erymanthis*	黃襟蛺蝶	-	-					+
Small White	*Pieris rapae*	菜粉蝶	R	-	+		+	+	
South China Bush Brown	*Mycalesis mineus*	平頂眉眼蝶	-	-				+	
Spangle	*Papilio protenor*	藍鳳蝶	-	-	+			+	+
Staff Sergeant	*Athyma selenophora*	新月帶蛺蝶	-	-	+				
Three-spot Grass Yellow	*Eurema blanda*	檗黃粉蝶	-	-	++	+	++	+++	+++
White-edged Blue Baron	*Euthalia phemius*	尖翅翠蛺蝶	-	-				+	
Total No. of species					23	9	13	21	13
Total No. of Conservation Interest Species					2	0	1	1	0

Note:

*Very limited data are available for the occurrence status (being native to Hong Kong) of butterflies

+: species recorded within transect routes

++: species commonly recorded within transect routes

+++: dominant species within transect routes

LC: Local Concern (Fellowes et al., 2002)

R: Rare (Chan et al. (2011)) VR: Very Rare (Chan et al. (2011))

Appendix L7. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 28 & 30 July 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Common Blue Skimmer	*Orthetrum glaucum*	黑尾灰蜻	-	Native			++		++
Common Red Skimmer	*Orthetrum pruinosum*	赤褐灰蜻	-	Native	+		+	++	++
Green Skimmer	*Orthetrum sabina*	狹腹灰蜻	-	Native		+		+	
Lesser Blue Skimmer	*Orthetrum triangulare triangulare*	鼎脈灰蜻	-	Native	+				
Pied Skimmer	*Pseudothemis zonata*	玉帶蜻	-	Native	+				
Red-faced Skimmer	*Orthetrum chrysis*	華麗灰蜻	-	Native	+				
Russet Percher	*Neurothemis fulvia*	網脈蜻	-	Native				+	
Saddlebag Glider	*Tramea virginia*	華斜痣蜻	-	Native	+				
Variegated Flutterer	*Rhyothemis variegata*	斑麗翅蜻	-	Native	+++		+		+
Wandering Glider	*Pantala flavescens*	黃蜻	-	Native	+++	+	+	+	++
Total No. of species					7	2	4	4	4
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					7	2	4	4	4

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 30/07/2025 (T1,6), 28/07/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6

Note:

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)

+: species recorded within transect routes

++: species commonly recorded within transect routes

+++: dominant species within transect routes

LC: Local Concern (Fellowes et al., 2002)

APPENDIX M
WEATHER CONDITION

APPENDIX M –
GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 July 25	28.2	87	5.5
2 July 25	30	80	0.5
3 July 25	30.3	76	0
4 July 25	30.8	71	0
5 July 25	30.6	71	3.7
6 July 25	30.3	71	0
7 July 25	31.2	77	0
8 July 25	30.9	76	0
9 July 25	30.7	77	15.2
10 July 25	26.3	93	126.4
11 July 25	27.9	84	0
12 July 25	28.7	87	38.4
13 July 25	30.1	81	1.9
14 July 25	30.2	79	9.2
15 July 25	30.3	79	3.2
16 July 25	31.1	75	0
17 July 25	31.3	76	0

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 July 25	**28.6**	**85**	**19**
19 July 25	**29.5**	**78**	**10**
20 July 25	**27**	**91**	**87.6**
21 July 25	**27.1**	**92**	**42.4**
22 July 25	**28**	**88**	**95.7**
23 July 25	**29**	**81**	**2.6**
24 July 25	**29.4**	**77**	**Trace**
25 July 25	**29.2**	**78**	**31.8**
26 July 25	**30.2**	**74**	**0**
27 July 25	**30.4**	**76**	**0**
28 July 25	**30.1**	**80**	**0.6**
29 July 25	**27.8**	**90**	**106.5**
30 July 25	**29.8**	**84**	**0**
31 July 25	**29.9**	**83**	**1.5**

* The above information was extracted from the daily weather summary by Hong Kong Observatory.

**Trace means rainfall less than 0.05 mm.

APPENDIX N
EVENT ACTION PLANS

Appendix N:

Table N-1: Event / Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Rectify any unacceptable practice and implement remedial measures; and 3. Amend working methods agreed with ER if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 3. Implement the

	to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. If exceedance stops, cease additional monitoring.	Implementation of remedial measures.		agreed proposals; and 4. Amend proposal if appropriate.
LIMIT LEVEL				
1.Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor, IEC and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.

		measures.		
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 5. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise and ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; 5. Resubmit proposals if problem still not under control; 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-2: Event / Action Plan for Construction Noise

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

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	7. Assess effectiveness of Contractor's remedial actions and keep IEC informed of the results; 8. If exceedance stops, cease additional monitoring.		Contractor to stop that portion of work until the exceedance is abated.	determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-3: Event / Action Plan for Water Quality

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action level being exceeded by one sampling day	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 4. Review proposals on remedial measures submitted by Contractor; 5. Discuss remedial measures with IEC and Contractor and ER; and 6. Review submit proposal and ensure the effectiveness of the implemented mitigation measures.	1. Discuss with ET, ER and Contractor on the implemented mitigation measures; 2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review submit proposal and advise the ET and ER on the Effectiveness of the implemented mitigation measures.	1. Review proposals on remedial measures submitted by Contractor; 2. Discuss with IEC, ET and Contractor on the Implemented mitigation measures; 3. Make agreement on the remedial measures to be implemented; and 4. Supervise the implementation of agreed remedial measures.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment; 5. Consider changes of working methods; 6. Discuss with ER, ET and IEC and submit proposal of remedial measures to ER and IEC; and 7. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive sampling days	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Check monitoring data, all plant, equipment,	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise	1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented; and	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	Contractor's working methods and other relative information; 4. Discuss remedial measures with IEC, contractor and ER; and 5. Review submit proposal and ensure the agreed remedial measures are implemented	the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures	practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Rectify unacceptable practice; 4. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; 7. Review the submit	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; and 4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	proposal and ensure the agreed remedial measures are implemented;			notification; and 6. Implement the agreed remedial measures.
Limit level being exceeded by more than one consecutive sampling days	1. Conduct addition site investigation on the same day; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 4. Discuss mitigation measures with IEC, ER and Contractor; and 5. Review the submit proposal and ensure the agreed remedial measures are implemented.	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	1. Discuss with ET, IEC and Contractor on the implemented remedial measures 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; 4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify Unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures. 7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-4: Actions in the event of LFG being detected

Parameter	Monitoring Results	Actions
O_2	<19% v/v	Increase underground ventilation to restore O_2 to >19% v/v
	<18% v/v	Stop works, evacuate all personnel, prohibit entry, and increase ventilation to restore O_2 level to >19%
CH_4	>10% LEL	Prohibit hot works, increase ventilation to restore CH4 to <10% LEL
	>20% LEL	Stop works, evacuate all personnel, increase ventilation further to restore CH_4 to <10% LEL
CO_2	>0.5% v/v	Increase ventilation to restore C O_2 to <0.5% v/v
	>1.5% v/v	Stop works, evacuate all personnel, increase ventilation further to restore CO_2 to <0.5%

Note: Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or another appropriately qualified person. As a minimum these should encompass those actions specified in the above table.

Table N-5: Event / Action Plan for Ambient Arsenic Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.

	actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor, IEC and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the ET and IEC, agree with the Contractor on the	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;

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

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-6.1 Action and Limit Levels and Responses for Avifauna Monitoring and General Site Inspection in the LVNP during Construction Phase.

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
AVIFAUNA MONITORING				
Action Level exceeded.	1.Check monitoring data and repeat data analysis to confirm findings; 2.Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3.Identify potential source(s) of impact; 4.Immediately inform IEC, Contractor and PP. 5.Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6.Conduct necessary site inspections/audits to ensure all remedial	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1.Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	measures are properly implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1.Check the monitoring results and findings from ET and IEC; 2.Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3.Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4.Supervise the instigated further mitigation measure(s).

	implemented by the Contractor, as agreed with the PP.	feedback the audit results to the PP.		
General Site Inspection				
Action Level exceeded.	1. Investigate if the activity identified is related to the construction works; 2. Immediately inform IEC, Contractor and PP. 3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 4. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check the investigation and findings of the ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) of the activity identified.	1. Check the investigation and findings of the ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded	1. Investigate if the activity identified is related to the construction works;	1. Check the investigation and findings or the ET; 2. Discuss with the PP,	1. Confirm receipt of notification of the exceedance of Limit Level in writing;	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for

	2. Immediately inform IEC, Contractor and PP. 3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 4. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 5. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

Table N-6.2 Action and Limit Levels and Responses to Evidence of Disturbance to Waterbirds using in Ng Tung, Sheung Yue and Shek Sheung Rivers

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level	1. Check monitoring	1.Check monitoring data,	1. Confirm receipt of	1. Check the monitoring

exceeded.	data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	analysis and investigation by ET; 2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level Exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1.Check the monitoring results and findings from ET and IEC; 2.Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3.Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4.Supervise the instigated further mitigation measure(s).
Operational Phase				
Action Level	1. Check monitoring	1.Check monitoring	1. Confirm receipt of	1. Check the monitoring

exceeded.	data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

Table N-6.3 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	results to the PP.		
Operational Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		

Table N-6.4 Action and Limit Levels and Responses to Evidence of Declines in the Seasonal Non-aquatic Fauna (Herptofauna, Butterfly and Odonates) in Ecologically Sensitive Habitats

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and

	construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s),	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the

	natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).
Operational Phase				

Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.			

Table N-6.5 Action and Limit Levels and Responses to Evidence of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP.	1. Check monitoring data, analysis and investigation by ET; 2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	results to the PP.		
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP.	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		
Operational Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit

	check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	advise the PP accordingly; and 3. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	remedial measures(s) to mitigate the impact(s) identified.	frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings;	1. Check monitoring data, analysis and investigation by ET;	1. Confirm receipt of notification of the exceedance of Limit Level in writing;	1. Check the monitoring results and findings from ET and IEC;

	2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed	2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	with the PP.			

APPENDIX O
SUMMARY OF EXCEEDANCE

Appendix O: Exceedance Report

(A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Air Quality	1-hr TSP	0	0	0	0
	24-hr TSP	0	0	0	0
	24-hr RSP (Ambient Arsenic)	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Noise	$L_{eq(30\ min.)}$ dB(A)	1	0	0	0

(C) Exceedance Report for Water Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Water Quality	DO	0	0	0	0
	Turbidity	0	0	0	0
	SS	0	0	0	0
	Arsenic	0	0	0	0

(D) Exceedance Report for Landfill Gas

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Landfill Gas	O_2 (% v/v) CH_4 (% LEL) CO_2 (%v/v)	0	0	0	0

(E) Exceedance Report for Built Heritage Monitoring

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Cultural Heritage	Built Heritage Monitoring	0	0	0	0

(F) Exceedance Report for Ecological Monitoring

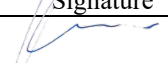
Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Ecological	Avifauna	0	0	0	0
	Aquatic Fauna	0	0	0	0
	Non-Aquatic Fauna	0	6	0	0
	General Site Inspection (LVNP)	0	0	0	0

APPENDIX P
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary

Checklist Reference Number	250702
Date	2 July 2025 (Wednesday)
Time	10:30 – 11:30

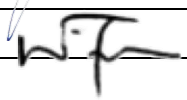
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250624), no major environmental deficiency was identifed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		2 July 2025
Checked by	Dr. Priscilla Choy		2 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250708
Date	8 July 2025 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250702), no major environmental deficiency was identifed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		8 July 2025
Checked by	Dr. Priscilla Choy		8 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250714
Date	14 July 2025 (Monday)
Time	14:00 – 15:00

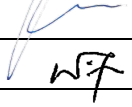
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250708), no major environmental deficiency was identifed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		14 July 2025
Checked by	Dr. Priscilla Choy		14 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250723
Date	23 July 2025 (Monday)
Time	11:00 – 12:00

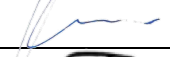
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250723-R01	• Mud stain was observed on Ma Tso Lung Road. The Contractor was reminded to keep the main access road near site entrance or exit clean and free from dust.	B 9
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250714), no major environmental deficiency was identifed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		23 July 2025
Checked by	Dr. Priscilla Choy		23 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250729
Date	29 July 2025 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
250729-R01	• Construction Noise Permit should be displayed properly at site entrance.	K 1
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250723), item no. 250723-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		29 July 2025
Checked by	Dr. Priscilla Choy		29 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250702
Date	2 July 2025 (Wednesday)
Time	09:00 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250702-R01	• Sand bag bund should be enhanced along the boundary of works at CH1680.	D 3
250702-R02	• Temporary ditches for runoff discharge into appropriate watercourse should be provided.	D 2i
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250625), item no. 250625-R01 was remarked as 250702-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		2 July 2025
Checked by	Dr. Priscilla Choy		2 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250708
Date	8 July 2025 (Tuesday)
Time	14:00 – 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250708-R01	• Sand bag bund should be enhanced along the boundary of works at CH1680.	D 3
250708-R02	• Temporary ditches for runoff discharge into appropriate watercourse should be provided.	D 2i
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250702), item no. 250702-R01 and 250702-R02 were remarked as 250708-R01 and 205708-R02. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		8 July 2025
Checked by	Dr. Priscilla Choy		8 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250716
Date	16 July 2025 (Wednesday)
Time	09:30 – 11:00

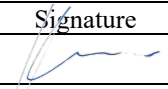
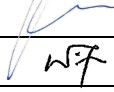
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250716-R01	• Sand bag bund should be enhanced along the boundary of works at CH1680.	D 3
250716-R02	• Temporary ditches for runoff discharge into appropriate watercourse should be provided.	D 2i
	E. Waste / Chemical Management	
250716-R03	• Drip tray for chemical/fuel containers should be provided.	E 14
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250708), item no. 250708-R01 and 250708-R02 were remarked as 250716-R01 and 205716-R02. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		16 July 2025
Checked by	Dr. Priscilla Choy		16 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250723
Date	23 July 2025 (Wednesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250723-R01	• Sand bag bund should be enhanced along the boundary of works at CH1680.	D 3
250723-R02	• Temporary ditches for runoff discharge into appropriate watercourse should be provided.	D 2i
250723-R04	• Exposed slope next to Sheung Yue River should be covered and maintained properly.	D 7
	E. Waste / Chemical Management	
250723-R03	• Drip tray for chemical/fuel containers should be provided.	E 14
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250716), item no. 250716-R01, 250716-R02 and 250716-R03 were remarked as 250723-R01, 250723-R02 and 250723-R03 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		23 July 2025
Checked by	Dr. Priscilla Choy		23 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250730
Date	30 July 2025 (Wednesday)
Time	14:00 – 15:30

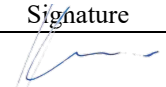
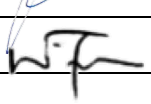
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250730-R01	• Sand bag bund should be enhanced along the boundary of works at CH1680.	D 3
250730-R02	• Exposed slope next to Sheung Yue River should be covered and maintained properly.	D 7
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250730-R03	• Silt curtain should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250723), item no. 250723-R02 and 250723-R03 were observed imrpoved/rectified by the Contractor during the site inspection. • Item no. 250723-R01 and 250723-R04 were remarked as 250730-R01 and 250730-R02 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		30 July 2025
Checked by	Dr. Priscilla Choy		30 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250703
Date	3 July 2025 (Thursday)
Time	14:00 – 15:00

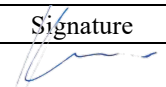
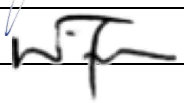
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250703-R01	• Stockpile of dusty material should be covered by impervious sheets properly at Portion K.	B 2
250703-R02	• Haul road near Bridge F should be water-sprayed regularly as dust-suppression.	B 1
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
250703-R03	• Drip tray for chemical/fuel containers should be provided at Bridge F.	E 14
250703-R04	• General refused should be disposed of regularly and properly.	E 1iii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250703-R05	• 2m high dull green barrier should be erected and maintained properly.	H 10
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250626), item no. 250626-R02 was observed improved/rectified by the Contractor during the site inspection. • Item no. 250626-R01 was remarked as 250703-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		3 July 2025
Checked by	Dr. Priscilla Choy		3 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250709
Date	9 July 2025 (Wednesday)
Time	10:30 – 11:30

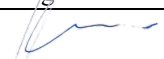
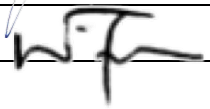
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250709-R01	• Stockpile of dusty material should be covered by impervious sheets properly at Portion K.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250709-R02	• Sand bag bunds should be supplemented to avoid surface runoff entering Ng Tung River.	D 3
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250703), item no. 250703-R02, 250703-R03, 250703-R04 and 250703-R05 were observed improved/rectified by the Contractor during the site inspection. • Item no. 250703-R01 was remarked as 250709-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		9 July 2025
Checked by	Dr. Priscilla Choy		9 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250717
Date	17 July 2025 (Thursday)
Time	14:00 – 15:00

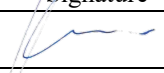
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250717-R01	• Stockpile of dusty material should be covered by impervious sheets properly at Portion K.	B 2
250717-R03	• Stockpile of dusty material should be covered by impervious sheets properly near Bridge F.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250717-R02	• Sand bag bunds should be supplemented to avoid surface runoff entering Ng Tung River.	D 3
	E. Waste / Chemical Management	
250717-R04	• Packing of cement should be disposed of properly.	E 1iii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250709), item no. 250709-R01 and 250709-R02 were remarked as 250717-R01 and 250717-R02 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		17 July 2025
Checked by	Dr. Priscilla Choy		17 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250722
Date	22 July 2025 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250722-R01	• Stockpile of dusty material should be covered by impervious sheets properly at Portion K.	B 2
250722-R03	• Stockpile of dusty material should be covered by impervious sheets properly near Bridge F.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250722-R02	• Sand bag bunds should be supplemented to avoid surface runoff entering Ng Tung River.	D 3
	E. Waste / Chemical Management	
250722-R04	• Packing of cement should be disposed of properly.	E 1iii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250717), item no. 250717-R01, 250717-R02, 250717-R03 and 250717-R04 were remarked as 250722-R01, 250722-R02, 250722-R03 and 250722-R04 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		22 July 2025
Checked by	Dr. Priscilla Choy		22 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250731
Date	31 July 2025 (Thursday)
Time	14:00 – 15:00

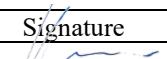
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250731-R02	• Stockpile of dusty material should be covered by impervious sheets properly near Bridge F.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250731-R01	• Sand bag bunds should be supplemented to avoid surface runoff entering Ng Tung River.	D 3
	E. Waste / Chemical Management	
250731-R03	• Packing of cement should be disposed of properly.	E 1iii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250722), item no. 250722-R01 was observed improved/rectified by the Contractor during the site inspection. • Item no. 2507227-R02, 250722-R03 and 250722-R04 were remarked as 250731-R01, 250731-R02 and 250731-R03 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		31 July 2025
Checked by	Dr. Priscilla Choy		31 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250707
Date	7 July 2025 (Monday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250626), item no. 250630-R01 and 250630-R02 were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		7 July 2025
Checked by	Dr. Priscilla Choy		7 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250714
Date	14 July 2025 (Monday)
Time	10:00 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250707), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		14 July 2025
Checked by	Dr. Priscilla Choy		14 July 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250724
Date	24 July 2025 (Thursday)
Time	9:15 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250724-R01	• Proper protective measures should be provided surrounding the gullies along the Tai Wo Service Road to avoid earth, mud and debris from getting into it.	D3, D6
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250714), no major environmental deficiency was identified during the site inspection.	

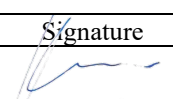
	Name	Signature	Date
Recorded by	Tim Lui	Tim	24 July 2025
Checked by	Dr. Priscilla Choy		24 July 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas
ND/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section between Shung Him Tong to Kau Lung Hang

Weekly Site Inspection Record Summary

Checklist Reference Number	250730
Date	30 July 2025 (Wednesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250730-R01	• Sand bag bunds should be enhanced along the Ma Wat River near Tong Hang.	D 3
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250724), item no. 250724-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		30 July 2025
Checked by	Dr. Priscilla Choy		30 July 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250707
Date	7 July 2025 (Monday)
Time	09:30 – 10:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250630), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		7 July 2025
Checked by	Dr. Priscilla Choy		7 July 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250718
Date	18 July 2025 (Friday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250707), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		18 July 2025
Checked by	Dr. Priscilla Choy		18 July 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250722
Date	22 July 2025 (Tuesday)
Time	14:00 – 14:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250718), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		22 July 2025
Checked by	Dr. Priscilla Choy		22 July 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250730
Date	30 July 2025 (Wednesday)
Time	11:30 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250722), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		30 July 2025
Checked by	Dr. Priscilla Choy		30 July 2025

APPENDIX Q
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Construction Dust Impact							
S3.8	D1	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 92.1%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.7 L/m2 to achieve the respective dust removal efficiencies	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	*
S3.8	D2	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	^
S3.8	D3	Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works,	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	* ^ ^ ^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period. • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and				^ ^ ^ ^ ^ N/A N/A ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.					^
SURFACE S3.8	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected representative dust monitoring station	Construction phase	^
Noise Impact (Construction Phase)							
S4.9	N1	Implement the following good site management practices: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, where	Control construction airborne noise	Contractor	All construction sites	Construction phase	^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; • Mobile plant should be sited as far away from NSRs as possible and practicable; • Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					^ ^
S4.9	N2	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N3	Install movable noise barriers and full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N4	Use of “Quiet” Plant and Working Methods	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N6	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected	Contractor	Selected representative	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			representative locations		noise monitoring stations		
Water Quality Impact (Construction Phase)							
S5.7	W1	Construction Runoff and Site Drainage In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures should be provided and the Storm Water Pollution Control Plan is given below. where appropriate, should include the following: **Stormwater Pollution Control Plan** • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction. • Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipments in order to avoid or minimize polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m^3 capacities, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple	Control construction runoff	Contractor	All construction sites	Construction phase	^ # ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		inputs from a variety of sources and suited to applications where the influent is pumped. • The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. The silt/sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates. • The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction. • Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. • All drainage facilities and erosion and sediment control structures 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. • Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or					^ ^ ^ # ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		foundation excavations should be discharged into storm drains via silt removal facilities. • All open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than $50m^3$ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. • Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. • 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 1/94. 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 road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to					^ ^ ^ #

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		public roads and drains. • Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. • 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. • Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the meander, wetlands and fish ponds.					N/A ^ ^ ^
S5.7	W2	<u>*Stream Diversion*</u> • In order to prevent sediment transport during riverbank works, deployment of silt curtain should be implemented, especially when construction works encroach or occur in close distance to water body. It is recommended to carry out all the riverbank works and diversion works within a cofferdam or diaphragm wall and the work areas on riverbed should be kept in dry condition.	Minimize water quality impact due to stream diversion	Contractor	All streams that required diversion	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S5.7	W3	*Groundwater from Contaminated Area* • For other inaccessible sites, site investigation is required when they are resumed and handed over to the Project Proponent to identify if contaminated groundwater is found. • If the investigation results indicated that the groundwater to be generated from construction works would be contaminated, the contaminated groundwater should be either discharged into recharged wells, or properly treated in compliance with the requirements of Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters. • If recharged well method were used, the groundwater quality in the recharged well should not be affected by recharging operation, i.e. the pollution levels of the recharged groundwater should not be higher than that in the recharging wells. • If treatment and discharge method were used, the design of wastewater treatment facilities, such as active carbon and petrol interceptor, should be submitted to the EPD and a discharge license should be obtained under the WPCO through the Regional Offices of EPD.	Minimize water quality impact due to potential groundwater from contaminated area	Contractor	All identified groundwater-contaminated areas	Construction phase	N/A N/A N/A N/A
S5.7	W4	*Sewage from Workforce* Portable chemical toilets and sewage holding tanks should be provided for	Handling of site sewage	Contractor	All construction sites	Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site should be conducted in order 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.					
Waste Management (Construction Waste)							
S7.6	WM1	*Waste Reduction Measures* Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: • segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; • proper storage and site practices to minimize the potential for	Reduce waste generation	Contractor	All construction sites where practicable	Prior to the commencement of construction	^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		damage and contamination of construction materials; • plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; • sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc); • provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.					^ N/A ^
S7.6	WM2	Prepare Waste Management Plan and submit to the Engineer for approval	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	^
S7.6	WM3	*Good Site Practice* The following good site practices are recommended throughout the construction activities: • Nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Provision of sufficient waste disposal points and regular collection for disposal; • Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;					^ ^ *
S7.6	WM4	*Storage of Waste* The following recommendation should be implemented to minimize the impacts: • Waste such as soil should be handled and stored well to ensure secure containment; • Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; • Different locations should be designated to stockpile each material to enhance reuse;	Minimize waste impacts from storage	Contractor	All construction sites	Construction phase	^ ^ ^
S7.6	WM5	*Collection and Transportation of Waste* The following recommendation should be implemented to minimize the	Minimize waste impact	Contractor	All construction	Construction	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		impacts: • Remove waste in timely manner; • Employ the trucks with cover or enclosed containers for waste transportation; • Obtain relevant waste disposal permits from the appropriate authorities; and • Disposal of waste should be done at licensed waste disposal facilities.	from storage		sites	phase	^ ^ ^ ^
S7.6	WM6	<u>*Excavated and C&D Material*</u> Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at Public Fill Reception Facilities areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: • Maintain temporary stockpiles and reuse excavated fill material for backfilling; • Carry out on-site sorting; • Deliver surplus artificial hard materials to Tuen Mun Area 38 recycling plant or its successor for recycling into subsequent useful products; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and • Implement a recording system for the amount of waste generated,	Minimize waste impacts from excavated and C&D material	Contractor	All construction sites	Construction phase	^ ^ N/A N/A N/A ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		recycled and disposed of for checking; Standard formwork should be used as far as practicable in order to minimize the arising of C&D waste. The use of more durable formwork (e.g. metal hoarding) or plastic facing should be encouraged in order to enhance the possibility of recycling. The purchasing of construction materials should be carefully planned in order to avoid over ordering and wastage. Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area.					N/A ^
S7.6	WM7	*Contaminated Soil* As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of river measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction phase	^
S7.6	WM8	*Chemical Waste* If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					
S7.6	WM9	*General Waste* • General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. • Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. • A reputable waste collector should be employed to remove general refuse on a daily basis.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction phase	^ ^ ^
S7.6	WM10	*Sewage* • The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. • Regularly collection by licensed collectors should be arranged to minimize potential environmental impacts.	Minimize production of sewage impacts	Contractor	All construction sites	Construction phase	N/A N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S7.6	WM11	Topsoil reuse – Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. This is considered a general measure for good site practice.	Good site practice	Contractor/ Project Proponent	Onsite	Construction phase	N/A
Land Contamination							
S 8.4	LC2	Detailed site investigation (SI) for all inaccessible potentially contaminated sites in 2 NDAs	Verify the land contamination potential before the commencement of construction	Project Proponent Detailed Design Consultant Contractor	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	After the land is resumed and handed over to the Project Proponent	N/A
S 8.5	LC3	Preparation and submission of supplementary Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) for all inaccessible potentially contaminated sites in 2 NDAs to EPD for agreement if land contamination is confirmed	Present the findings of SI and evaluate the potential environmental and human health impacts Recommend appropriate mitigation measures for the contaminated soil and groundwater identified in the assessment if	Project Proponent/ Detailed Design Consultant	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	Prior to the commencement of any proposed construction works if land contamination is confirmed and remediation is required	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			remediation is required				
S 8.5	LC4	Preparation and submission of Remediation Report to EPD for agreement	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed supplementary CAR and RAP	Project Proponent/ Detailed Design Consultant	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	Prior to the commencement of any proposed construction works if land contamination is confirmed and remediation is required	N/A
S 8.6	LC5	Re-appraisal of surveyed sites (if they become part of the land requirement for NDA development) that were not identified as potentially contaminated or could not be accessed for visual inspection during the site survey	Verify the land contamination potential due to potential change of land uses before the commencement of construction	Project Proponent/ Detailed Design Consultant	All surveyed sites (if they become part of the land requirement for NDA development (that were not identified as potentially	After the land is resumed and handed over to the Project Proponent.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
					contaminated or could not be accessed for visual inspection during the site survey as listed in the CAP		
S 8.7.2 and Appendix 8.4	LC6	Treatment of arsenic-containing soil "Solidification/Stabilization" (S/S) treatment method was proposed for the treatment of arsenic-containing soil. Toxicity Characteristic Leaching Procedure (TCLP) test should be undertaken after S/S in order to ensure that the contaminant will not leach to the environment. Unconfined Compressive Strength (UCS) test should be conducted, and not less than 1MPa should be met prior to the backfilling or stockpiled for future reuse within the study area.	To treat the arsenic containing soil	Government Developer/ Contractor	KTN NDA	Prior to commencement of construction works within KTN NDA	N/A
S 8.7.2 and Appendix 8.4	LC7	Excavation and Transportation • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table; • Excavation should be carried out during dry season as far as	To minimize the potential environmental impacts arising from the handling of contaminated materials	Contractor	KTN NDA	Prior to commencement of construction works within KTN NDA	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		possible to minimize runoff from excavated soils; • Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of soil to minimize runoff; • Supply of suitable backfill material after excavation, if require; Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or run-off, and truck bodies and tailgates should be sealed to prevent any discharge during transport or during wet season; • Speed control for the trucks carrying excavated materials should be enforced; and Vehicle wheel washing facilities at the site's exit points should be established and used.					^
S 8.7.2 and Appendix 8.4	LC8	Solidification/Stabilization • The loading, unloading, handling, transfer or storage of cement should be carried out in an enclosed system; • Mixing process and other associated material handling activities should be properly scheduled to minimize potential noise impact and dust emission; • The mixing facilities should be sited as far apart as	To minimize the potential environmental impacts arising from the handling of contaminated materials	Contractor	KTN NDA	The course of treatment	N/A ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		practicable from the nearby noise sensitive receivers; • Mixing of soil and cement / water / other additive(s) should be undertaken at a solidification plant to minimize the potential for leaching; • Runoff from the solidification / stabilization area should be prevented by constructing a concrete bund along the perimeter of the solidification / stabilization area; • If stockpile of treated soil is required, the stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or site run-off during rainy season; and If necessary, there should be clear and separated areas for stockpiling of untreated and treated materials.					^ ^ *
S 8.7.2 and Appendix 8.4	LC9	<u>Safety Measures</u> • Set up a list of safety measures for site workers; • Provide written information and training on safety for site workers; • Keep a log-book and plan showing the zones requiring treatment and clean zones; • Maintain a hygienic working environment; • Avoid dust generation; • Provide face and respiratory protection gear to site workers if	To minimize the potential adverse effects on health and safety of construction workers	Contractor	KTN NDA	The course of treatment	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		necessary; • Provide personal protective clothing (e.g. chemical resistant • jackboot, liquid tight gloves) to site workers if necessary; • Provide first aid training and materials to site worker; • Bulk earth moving equipment should be utilized as much as possible to minimize worker Eating, drinking and smoking should not be allowed in the excavation areas and treatment area to avoid inadvertent ingestion of arsenic containing soil.					
Landfill Gas Hazard							
S10.6	LFG1	• Underground rooms or void should be avoided as far as practicable in the proposed developments within the Consultation Zone and should be avoided totally in the proposed developments within the MTLL. • Buildings or structures within the MTLL should be at ground level with raised floor slabs which are less prone to gas ingress. • For the high risk category, the use of active control of gas, including barriers and detection systems are recommended. These measures include the control of gas by mechanical means e.g. ventilation of spaces with air to dilute gas, or extraction of gas using fans or blowers. • For the low risk category, the provision of barriers to the movement of gas is recommended. Measures recommended	To minimize the risk of LFG hazards to occupants within MTLL and its 250m Consultation Zone	Government / Developer/ Detailed Design Consultant within MTLL and its 250m Consultation Zone	Buildings within MTLL and its 250m Consultation Zone	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		include the use of membranes in floors or walls, or in trenches, coupled with high permeability vents such as nofines gravel in trenches or voids/permeable layers below structures. • The need and practicality of incorporating such measures should be reviewed in the detailed Qualitative LFG Hazards Assessment (QLFGHA) during the detailed design stage for developments within the 250m Consultation Zone and within MTLL. Recommendations on the detailed precautionary and protection measures to be adopted should be given in the QLFGHA. • The design and construction method of the proposed development within MTLL (i.e. the proposed recreational area in site E1-1) should be provided to EPD for agreement in the design stage to ensure compatibility with the landfill restoration facilities and aftercare works within MTLL, such that these facilities and works will not be affected by the construction or operation of the proposed development.					
S10.6	LFG2	• During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers (especially in confined space) and toxicity effects resulting from contact with contaminated soils and groundwater. • Safety officers, specifically trained with regard to LFG and leachate related hazards and the appropriate actions to take in	To minimize the risk of LFG hazards to the staff and visitors within MTLL and its 250m Consultation Zone	Contractor	Construction sites within MTLL and its 250m Consultation Zone	Construction phase	^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		adverse circumstances, should be present on all worksites throughout the works. • All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. • Those staff who work in, or have responsibility for "at risk" areas, including bore pilling and excavation works, should receive appropriate training on working in areas susceptible to LFG. • Enhanced personal hygiene practices including washing thoroughly after working and eating only in "clean" areas should be adopted where contact may have been made with any groundwater which is thought to be contaminated with leachate. • Any offices / quarters set up on site should take precautions against LFG ingress, such as being raised off the ground. Other storage premizes, e.g. shipping containers, where this is not possible should be well ventilated prior to entry. • Adequate precautions to prevent the accumulation of LFG under site buildings and within storage shed should be taken by raising buildings off the ground where appropriate and"airing" storage containers prior to entry by personnel and ensuring adequate ventilation at all times.					^ ^ ^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Smoking and naked flames should be prohibited within confined spaces. "No Smoking" and "No Naked Flame" notices in Chinese and English should be posted prominently around the construction site. Safety notices should be posted warning of the potential hazards.					^
		• Welding, flame-cutting or other hot works may only be carried out in confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer. The permit to work procedure should set down clearly the requirements for continuous monitoring of methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person who shall be responsible for reviewing the gas measurements as they are made, and who shall have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas.					N/A
		• During the construction works, adequate fire extinguishers and breathing apparatus sets should be made available on site and appropriate training given in their use.					^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Ongoing gas monitoring should be considered for offices, stores etc set up on site.					^
S10.6	LFG3	Utility Companies • The developers should make the utility companies aware of the location and features of the site within the Consultation Zone during the respective detailed design stage as part of the QLFGHA. • The utilities companies should have a responsibility to train and ensure their staff to take appropriate precautions at all times when entering enclosed spaces or plant rooms. • Should utility installation be required in site E1-1, the developers should make the utility companies aware of the potential constraints imposed by the landfill restoration facilities and aftercare works to ensure these facilities and works will remain unaffected. Appropriate precautionary measures against landfill gas should also be taken should utility installation be required within the MTLL. Building Management • The management committee of the building estate will hold a special responsibility to ensure that the occupants of the building, its staff and maintenance workers are protected from LFG and that visitors to the site are also made aware as to the dangers and the	To minimize the risk of LFG hazards to the occupants, maintenance personnel, visitors and other users within MTLL and its 250m Consultation Zone	Government / Developer within MTLL and its 250m Consultation Zone	Buildings within MTLL and its 250m Consultation Zone	Operation phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		precautions required to be taken. • Of primary importance to satisfactorily upholding this responsibility will be to ensure that strict procedures for maintaining control over all temporary and /or permanent works proposed at the site are reviewed with regard to the LFG hazard. This needs to be accompanied by a comprehensive contingency plan in case of incidents, including liaison with EPD officers, Fire Services Department, Landfill Restoration Contractors and others, as necessary. • All construction and maintenance (including utilities) personnel working at the site should be made aware of the hazards of LFG and its possible presence on site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on LFG hazards and the designs and procedural means by which these hazards are being minimized on site. In addition, entry to confined spaces such as refuse/store rooms, drainage manholes etc. should be preceded by a period of "airing" the space by opening the door widely allowing fresh air to enter. Where appropriate, monitoring of gas should also precede entry. • Any proposed modifications or additions to the building structure should be subject to a further assessment of LFG hazard,					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		particularly in areas where a gas membrane has been installed. Any penetrations of the membrane must be repaired as soon as possible after detection or works completion using similar products. • The building management company should also make arrangement with Landfill Restoration Contractor so that they are advised of all situations which may potentially threaten the safety of the building occupants resulting from any accidents or failures at the landfill site. The building management company should also have available suitable gas monitoring equipment for any ad hoc investigations necessary relating to LFG and be in a position to undertake any future routine monitoring of gas which may be considered necessary soloing completion of the defects correction period. • To ensure that all the above protection and precautionary measures and issues pertaining to LFG are properly and consistently addressed by future users and owners of the site, it is recommended that a comprehensive LFG hazard management system be developed by the owner of the building or its property management agency. The system should be developed by the developers of the sites as part of the QLFGHA before the occupation of the building and implemented during its operational					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		phase.					
Cultural Heritage (Pre-construction Phase)							
S11.6.1	CH1	Undertaking Further Archaeological Survey to Cover the Outstanding Areas Further archaeological surveys to cover the outstanding areas of the not-yet-surveyed-area with medium archaeological potential located in the areas with proposed development as presented in Figure 11.9 should be implemented after land resumption to confirm and verify the findings of the EIA. The survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance. It should be noted that the scope of further archaeological survey is based on the current proposed alignment. Any additional works areas which have not been covered by the current archaeological impact assessment should be covered as soon as possible. Subject to the findings of the archaeological survey to be conducted after land resumption, additional mitigation measures would be designed and implemented before the commencement of construction works to mitigate the adverse impact.	To confirm and verify the findings of the EIA	Project Proponent/ Contractor/ Qualified Archaeologist	In the not-yet-surveyed-areas with medium archaeological potential located in the areas within Areas D1-11, A3-5, A3-6, B1-1, and B1-7,	After land resumption but before construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S11.6.1	CH2	Undertaking Survey-cum-Rescue Excavation A Survey-cum-Rescue Excavation should be conducted after land resumption and before the commencement of construction works to define the precise archaeological deposits extent and to preserve the archaeological resources by record. The excavation should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	In KTN NDA, for Site 3 and In FLN NDA for Site 5.	After land resumption but before construction commencement of the zone	N/A
S11.6.1	CH3	Undertaking Preservation in-situ for Site 7 Preservation in-situ of the cultivation deposits in Site 7 is proposed. If disturbance to the site by the design of the Central Park is unavoidable, further archaeological survey should be conducted after land resumption prior to the pre-construction stage to assess the feasibility to incorporate Site 7 into the design of the development plan of the proposed zone. Appropriate followup actions, including preservation of the significant archaeological deposits in-situ in the Central Park, would then be considered with the consent of AMO. The recommended mitigation measure of preservation in-situ with further archaeological survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the	To preserve the archaeological resources as far as possible.	Project Proponent/ Contractor/ Qualified Archaeologist	Site 7 in FLN NDA	After land resumption prior to preconstruction stage of the proposed Central Park (Area C2-8, Zoning O)	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Authority under the AM Ordinance.					
S11.6.1	CH4	Undertaking Induction Training Induction training should be provided to the construction Contractor before the commencement of the excavation works in Spots A, D, F to H. An induction will be conducted as part of the environmental health and safety induction programme to all site staff before they are deployed on site. The induction will include an introduction on the historical development of the Site, the possible archaeological remains that may be encountered during ground excavation works as well as the reporting procedures in case suspected archaeological remains are identified. A set of the presentation material (in the form of power point presentation) with content details will be prepared by an archaeologist and submitted to AMO for reference and record purpose. The first induction briefing will be video recorded and it will be used as induction briefing material for new site staff.	To preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	Spots A, D, F to H	Before the commencement of the excavation works and before site staff are deployed on site	N/A
S11.6.1	CH5	Undertaking Archaeological Impact Assessment before Construction at A1 It is recommended that an Archaeological Impact Assessment to be conducted in the impacted area in Area B1-8 and B1-9 at A1 (Sheung	To define the precise archaeological deposits extent and to preserve the archaeological resources as	Project Proponent/ Contractor/ Qualified	Area B1-8 and B1-9 zoned as R4 and R3 in A1	After land resumption but before construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Shui Wa Shan Site of Archaeological Interest) after land resumption and before construction when detail construction work information is available to determine the need for further archaeological follow up actions.	far as possible	Archaeologist			
S11.6.1	CH6	Undertaking Archaeological Impact Assessment before Construction within A1 but except Area B1-8 and B1-9 Should there be any development work within the Sheung Shui Wa Shan Site of Archaeological Interest, it is recommended that an Archaeological Impact Assessment is required after land resumption and before construction when detail construction work information is available to determine the need for further archaeological follow up actions.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible.	Project Proponent/ Contractor/ Qualified Archaeologist	Area within A1 except Area B1-8 and B1-9 in R4 &R3 zoning	After land resumption but before construction	N/A
S11.6.2	CH7	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s could be adopted for graded historic buildings) and to evaluate if construction vibration monitoring and structural strengthening measures are required during	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	G303 and G308	Preconstruction stage before commencement of construction works during Schedule 3 study	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		construction phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report. The condition survey of graded historic building should be submitted to AMO for information.					
S11.6.2	CH8	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s and 15mm/s could be adopted for graded historic buildings and historic buildings respectively) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report. The condition survey of graded historic building should be submitted to AMO for information.	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	KT57, FL05, FL18, and FL2	Preconstruction stage before commencement of construction works	N/A
S11.6.2	CH9	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	Ancillary structures of G303, HKT01, HKT02, Entrance	Prior to Removal / Relocation of features before commencement of construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out the Project Proponent.			Gate of HKT03, HKT04, KT01 to KT10, KT13, KT36, KT39, KT40, KT41, KT43, KT45, KT47, KT50, KT54, KT62 to KT63, KT69, FL01, FL16, and FL35	works during Schedule 3 study	
S11.6.2	CH10	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out by the Project Proponent.	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	KT12 and KT61	Prior to Removal / Relocation of features before commencement of construction works	N/A
S11.6.2	CH11	Relocation of Built Heritages Relocation of built heritages to a reasonable location nearby may be required.	To preserve the directly impacted sites by relocation	Project Proponent/ Contractor	HKT01, HKT02, Entrance Gate of HKT03	After the photographic and cartographic records and before commencement of	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
						construction works	
S11.6.2	CH12	Drainage System and Access Route Design For the retained built heritage items in developable area, drainage system and access route would be designed to prevent the persevered flooding and maintain the accessibility to the built heritage.	To prevent the persevered flooding and maintain the accessibility to the built heritage	Contractor /Detailed Design consultant	The retained built heritage items	Pre-construction phase	N/A
Cultural Heritage (Construction Phase)							
S11.6.1	CH13	Inform Upon Archaeological Discovery Pursuant to the Antiquities and Monuments Ordinance, the construction Contractor should inform the AMO immediately in case of discovery of antiquities or supposed antiquities in the course of excavation works in construction phase.	Special attention should be given to areas evaluated to have archaeological potential or significance.	Contractor	All soil excavation works	Immediately upon discovery during excavation works	N/A
S11.6.2	CH14	Watertable Monitoring Since the construction works and development activities may induce change in the watertable. It is recommended the Contractor should ensure that the change of watertable induced by the construction works and development activities will not result in settlement of built heritage.	To minimize the potential impacts to the built heritage items by the change of watertable induced by the works during the Construction phase	Contractor	Within NDAs	Construction phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S11.6.2	CH15	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment	^
Landscape and Visual Impact (Detailed Design, Prior to Construction, Construction and Operation Phases)							
S.12.9	LV1	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed design consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as the areas become available, to achieve early establishment	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.9 MM1	LV2	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.9 MM2	LV3	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible into the surrounding landscape	Detailed Design Consultant	Throughout NDAs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.					
S12.9 MM14.4	LV 4	Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All watercourses, particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern	Prior to Construction and Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.			Section		
Landscape and Visual (Construction)							
S.12.9 MM3	LV5	Open Space Provision - the principles adopted in the RODP planning ensure that public open space systems are incorporated. All requirements for open space areas stipulated in the planning documents for the formulation of the Preliminary Layout Plan should be adhered to.	Reprovision of open space. Enhance visual amenity of the area and improve the overall landscape character	Government Developer/ Detailed Design Consultant/ Contractor/	Onsite as stipulated in the planning documents for the formulation of the Preliminary Layout Plan	Prior to Construction and Construction Phas	N/A
S.12.9 MM4	LV6	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas.	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained					
S.12.9 MM5	LV7	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted,	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					
S.12.9 MM6	LV8	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM7	LV9	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as	Compensate for trees and shrubs lost due to the Project.	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii* are suggested.					
S.12.9 MM8	LV10	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate					N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda*. In addition some understory vegetation may be planted including shrubs such as *Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii*. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.9 MM9	LV11	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. building edges, piers).	Soften hard surfaces and facilities	Government / Developer/ Detailed Design Consultant/ Contractor	On appropriate structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM10	LV12	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Developer/ Detailed Design Consultant/ Contractor	On appropriate buildings	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM11	LV13	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.9 MM12	LV14	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	To soften the hard, straight edges and provide greening along roads.	Government / Developer/ Detailed Design Consultant/ Contractor	On viaducts or along roads	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM13 & EIA Annex 13	LV15	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance on- wetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.9 MM14.1	LV16	Reprovision of Natural Stream – Where natural streams are unavoidably affected along some of their length, they can be diverted to avoid the proposed new developments and retain the integrity of the whole stream. Detailed design of any stream diversion should follow the Guidelines in ETWB Technical Circular (Works) No. 5/2005 (Protection of natural streams/rivers from adverse impacts arising from construction works) and appropriate construction methods should be used. Two short stretches of the Ma Tso Lung Stream will be affected by Project in the KTN NDA; by the LMC Eastern Connection Road on the western border of Site F1-3 and further upstream by Site E-2. At both these locations, the stream will be reprovisioned and maintain the flow between unaffected sections of the stream. The reprovisioned stream will be provided with a natural bed and banks, as well as having an area of marsh/ pool next to it and trees and shrubs further from the banks. (See E2, E14 and E24 also)	Achieve a natural stream, similar to existing, including wetland planting provision for embankments	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han San Tsuen	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S12.9 MM14.2	LV17	Stream Buffer Planting –Providing a minimum 10 m buffer with planting (where there is a general presumption against any development taking place) along streams where they flow close to developments, confers a degree of protection to the stream course and its associated vegetation.	Protect natural streams	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		For the stream at Ma Tso Lung in KTN NDA, the middle and upper sections will be designated as Green Belt zone where there is a general presumption against development as buffer to the stream. For the stream at Siu Hang San Tsuen in FLN NDA, within the NDA boundary much of the stream would be located underneath the viaduct for the proposed Fanling Bypass. To the south of the viaduct the stream flows through an Open Space area D1-3. In this Open Space zone a 10m buffer is proposed in which natural vegetation will be retained and enhanced and human activities will be limited in order to avoid direct impacts to the stream bed and to minimize potential indirect impacts to the stream and riparian corridor. (See E3 also)			San Tsuen		
S12.9 MM14.3	LV18	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Developer/ Detailed Design Consultant/ Contractor	Channelized watercourse, particularly the Ma Wat River Channel Diversion	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
S12.9 MM15	LV19	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
S.12.9 MM16	LV20	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non- reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	Throughout NDAs	Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.9 MM17	LV21	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Developer/ Contractor	Throughout NDAs	Construction and Operation Phases	N/A
Ecology (Prior to Construction Phase or throughout the project)							
S. 13.9	E1	Egretry Habitat Creation & Management Plan (EHCMP) and Woodland Planting and Management Plan (WPMP)	Compensate for loss of Man Kam To Road egretry. Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Detailed Design Consultant (EHCMP and WPMP).	FLN area A1-7 (egretry compensation). KTN areas E1-8 and G1-3 (woodland compensation).	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S. 13.9	E2	Detailed design of development along lower reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones F1-2 and F1-3 and detailed design of LMC Loop Eastern Connection Road with restoration of diverted stream and riparian corridor, permanent barrier and underpass on the at-grade section Compensation for the loss of seasonally wet grassland at Ma Tso Lung by habitat restoration and enhancement along diverted section of Ma Tso Lung Stream	Minimize impacts on Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream and riparian corridor of importance to species of conservation significance.	Project Proponent/ Detailed Design Consultant. (design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas F1-2 and F1-3 and LMC Loop Eastern Connection Road.	Detailed design and construction phases.	N/A
S13.9	E3	Detailed design, implementation and management of Siu Hang San Tsuen Stream to have 10m wide vegetated buffer in Open Space zone D1-3, Fanling Bypass to cross stream on viaduct.	Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.	PlanD, Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	FLN area D1-3.	Detailed design, construction and operation phases.	N/A
S.13.9	E4	Long Valley Nature Park (LVNP) designation, design and implementation.	Compensate for wetland loss arising from the project and protection of	Project Proponent/ Detailed Design	Long Valley KTN area C1-9 and any suitable areas to	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Enhancement of non-wetland habitats in LVNP. Planning for the advanced provision of alternative foraging habitat along main river channels for large waterbirds.	Long Valley from adverse ecological impacts including provision of additional/alternative habitat for large waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Consultant (Long Valley Nature Park Habitat Creation & Management Plan)	be identified during the planning stage		
S13.9	E5	Stringent planning control requirements in Long Valley north and west of Sheung Yue River, including Ho Sheung Heung egretry.	Protect these wetland areas from indirect impacts to habitats and fauna especially breeding ardeids foraging in these areas and utilizing flight-lines from Ho Sheung Heung egretry. Avoid habitat loss and disturbance to fauna of conservation significance, especially nesting ardeids Maintenance of ecological linkages with Deep Bay ecosystem and avoidance	PlanD.	KTN areas C2-1 and C2-2 , Ho Sheung Heung egretry and areas north of Long Valley along the Ng Tung River to the Shenzhen River	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			of severance of these linkages, especially for waterbirds				
S13.9	E6	Planning for creation of Green Corridors along the Sheung Yue, Ng Tung and Shek Sheung Rivers, retention and provision of screen plantings where feasible; and detailed design of Open Space areas and development areas along river corridors.	Minimize disturbance to large waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels. Maintain ecological linkages within NDA Project Area and between Project Area and Deep Bay ecosystem, especially for Long Valley and waterbirds.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	Area along Ng Tung, Sheung Yue and Shek Sheung River	Detailed design, construction and operational phases.	N/A
S13.9	E7	Building setback and mounding in locations near Long Valley. KTN area B3-12 (30m setback from road D3) and KTN area C1-1 (15m setback and mounding along northern and northeastern boundaries).	Minimization of disturbance impacts to fauna using Long Valley.	PlanD	KTN area B3-12 (30m setback from road D3) and KTN area C1-1 (15m setback and mounding along	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
					northern and northeastern boundaries.		
S13.9	E8	Preparation and implementation of Guidelines for building design measures to minimize mortality and light and glare impacts to fauna. Guidelines to address the following measures: Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project. Measures to include the following: • Fritting, or the placement of ceramic lines or dots on glass, which creates a visual barrier to birds and reduces air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the frits are applied on the outside surface. Frosted glass has similar effects; • Angled glass to be used only for smaller panes in buildings with a limited amount of glass; • The use of glass that reflects UV light (primarily visible to birds, but not to humans) to reduce collisions; • Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability;	Minimize mortality and disturbance impacts on fauna, especially mammals and birds.	PlanD/ Project Proponent/ Developer/ Detailed Design Consultant	Near Long Valley	Detailed design phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Lightweight external screens can be added to windows or become a façade element of larger buildings, and are suitable where non-operable windows are prevalent, which is often the case in modern buildings in HK					
	E9	Not used					N/A
S13.8	E10	Review development footprint and layout of proposed developments in KTN areas D1-11a and G1-5 to avoid/minimize direct and indirect impacts on secondary woodland at Ho Sheung Heung and shrubland at Crest Hill.	Minimize loss of secondary woodland and shrubland of ecological value.	Project Proponent/Detailed Design Consultant	KTN areas D1-11a and G1-5 to avoid/minimize direct and indirect impacts on secondary woodland at Ho Sheung Heung and Crest Hill	Detailed design phase	N/A

S13.9	E11	No construction during ardeid breeding season (1 March to 31 July) along Sheung Yue River north or east of KTN D1-5 and east of D1-9 and C2-3, construction hours restricted to 09.00 to 17.30 during 1 March to 31 July on new pedestrian bridge over the Sheung Yue River, new pedestrian bridge over the tidal section of the Ng Tung River and existing bridge between KTN areas C2-2 and C1-8. Review Design and construction methods for all bridges especially those on the Sheung Yue and tidal Ng Tung Rivers and adopt methods which minimize impacts on Long Valley and the rivers, and disturbance and fragmentation impacts on fauna. No overlap in construction of bridges over main river channels. Measures to ensure no hydrological disruption to Long Valley Watercourse and water supply to Long Valley to be designed at the detailed design stage for the rechannelisation of the Long Valley Watercourse and the development of areas through which it passes, including KTN area B3-12. Contingency plan to address any disruption to be included in LVNP HCMP. Avoid removal or interference with screen planting undertaken under the Construction of Cycle Tracks and Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung project.	Minimize disturbance impacts (including cumulative impacts with cycle track project) to flight-lines of breeding ardeids.	Project Proponent/ Detailed Design Consultant Contractor	Along and within Sheung Yue and Ng Tung Rivers, Long Valley, Long Valley and watercourse upstream areas including KTN area B3-12	Detailed design/ construction phase.	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Ecology (Construction Phase)							
S13.9	E12	Compensatory egretry habitat provision and establishment. Review condition and location of egretries before commencement of works. Formulate and implement additional mitigation measures as appropriate. Phasing of works near and within Man Kam To Road Egretry outside breeding season	Compensate for loss of Man Kam To Road egretry habitat. Avoid mortality of breeding egrets	Project Proponent/ Detailed Design Consultant/ Contractor	FLN area A1-7 500m from Man Kam To Road Egretry.	Construction phase.	^
S13.9	E13	Review design and construction methods for bridges, especially those on the Sheung Yue and tidal Ng Tung Rivers, and adopt measures which minimize impacts on rivers and disturbance and fragmentation impacts on fauna. No construction during ardeid breeding season (1 March to 31 July) along Sheung Yue River north and east of KTN area D1-5 and east of D1-9 and C2-3 and restriction of working hours on new pedestrian bridges over the Sheung Yue River and tidal Ng Tung River to 09.00 to 17.30 during the ardeid breeding season (1 March to 31 July) Provision of alternative foraging habitat along main river channels for large waterbirds.	Minimize impacts on rivers and disturbance and fragmentation impacts on fauna	Project Proponent/ Detailed Design Consultant/ Contractor	Along and within the Sheung Yue, Ng Tung and Shek Sheung Rivers	Detailed design and construction phases.	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S13.9	E14	Buffer zone of 15-30m as appropriate on both sides (not less than 45m total width) of Ma Tso Lung Stream north of the point where it is crossed by the LMC Loop Eastern Connection Road, and Ma Tso Lung Stream diversion during construction of the LMC Loop Eastern Connection Road; development along lower reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones in KTN areas F1-2 and F1-3 to be set back beyond buffer. Construction and maintenance of permanent 1.2m high solid faunal barrier at all at-grade sections of LMC Loop eastern connection Road north of junction with road D4 within 15-30m as appropriate of Ma Tso Lung Stream buffer and construction of faunal underpass beneath road. Compensation for the loss of seasonally wet grassland at Ma Tso Lung by habitat restoration and enhancement along diverted section of Ma Tso Lung Stream.	Minimize impacts direct and indirect impacts of habitat loss, disturbance, pollution and fragmentation on Ma Tso Lung Stream and marsh and riparian corridor of importance to species of conservation significance.	PlanD/ Project Proponent/ Developer/ Detailed Design Consultant/ Contractor. (Design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas H1-1, F12 and F1-3 and Lok Ma Chau Loop Eastern Connection Road.	Detailed design and construction phases.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.13.9	E15	Creation and enhancement of proposed Long Valley Nature Park and creation and enhancement of wetland and buffer planting within LVNP.	Compensate for wetland loss arising from the project	Project Proponent/ Contractor (LVNP Detailed Habitat Creation & Management Plan)	Long Valley, (KTN area C1-9).	Construction phase.	^
S13.9	E16	Creation of Green Corridors along the Sheung Yue, Ng Tung and Shek Sheung Rivers, retention and provision of screen plantings where feasible; provision of Open Space areas and development areas along river corridors; Design and erection of 2m high solid dull green site barrier fence between river channel and any active works area along or adjacent to Ng Tung, Sheung Yue and Shek Sheung Rivers. Ng Tung, Sheung Yue and Shek Sheung Rivers screen planting.	Minimize disturbance to waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Detailed Design Consultant/ Contractor	Ng Tung, Sheung Yue and Shek Sheung Rivers	Detailed design and Construction phases.	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S13.9	E17	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance on edge of development areas, including along any roads adjacent to or penetrating into areas/habitats of ecological importance. Erection of a 2m high dull green site barrier fence at the edge of the works area or 30m from Ma Tso Lung Stream and tributaries, whichever distance is the greater.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flight- line impacts to birds, especially breeding ardeids.	Contractor	Interface between areas/habitats/ fauna/ flora of ecological importance (e.g. KTN areas B1-3, C1-5, C1- 6, C1-9, C2-2, C2-4, C2-5, D1-8, E1-8, G1-3, H1-1, Ma Tso Lung Stream and tributaries; FLN areas A1-3, A1-7 and A1-9) and works areas; and around any works areas north of the Fanling Bypass and north of the Ng Tung River west of the western terminus	Construction phase.	*

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
					of the Fanling Bypass. Riparian corridor of Ma Tso Lung Stream and tributaries.		
S13.9	E18	Compensatory woodland planting, management and maintenance.	Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
S13.9	E19	Use opaque, non-transparent, non-reflective noise barriers for all construction sites. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Contractor	All construction sites	Construction phase.	^
S13.9	E20	Pre-site clearance check for presence of flora or fauna of conservation significance and bat roosts. If any are found, measures should be proposed and implemented to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.	Minimize impacts to flora and fauna of conservation significance. Minimize impacts to protected fauna and flora species. Formulate and implement mitigation measures to	Government/ Developer/ Contractor/ Ecologist	All construction sites.	Prior to clearance of vegetation and structures.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Pre-site clearance check on all construction sites and pre –works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of protected plant species/specimens of conservation significance. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, Pre-site clearance of construction sites in Crest Hill area, KTN areas D1-7, D1-11 and G1-5 (where Eurasian Hobby was recorded) and on Cheung Po Tau, FLN area A3-1 (where Grey Nightjar was recorded) for presence of any breeding birds/breeding sites. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement. Pre-site clearance check on all construction sites for presence of Chinese Bullfrog, translocation to suitable areas including LVNP.	avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation.				
S13.9	E21	Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of flora or fauna of conservation significance and bat roosts. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and	Minimize impacts to flora and fauna of conservation significance. Minimize impacts to protected fauna and flora species. Consider	Government/ Developer/ Contractor/ Ecologist	All construction sites.	Prior to clearance of vegetation and structures.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement. Pre-site clearance check on all construction sites for presence of reptile species of conservation significance, capture and translocate to receptor site; review translocation options in respect to species in Ma Tso Lung area and determine whether release locally or elsewhere is appropriate. Seek agreement of relevant authorities including AFCD in respect of proposed measures then implement Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of Small Snakehead and *Sommaniathelphusa zanklon*. Capture any *Sommaniathelphusa zanklon* found and translocate to Ma Tso Lung Stream/ other suitable areas including LVNP	and implement adjustments to avoid, minimize or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation				
S13.9	E22	Prevention of dust, run-off and pollutants impacting Deep Bay catchment area and areas of ecological importance.	Avoid increase to pollution entering ecologically sensitive Deep Bay ecosystem.	Contractor	All construction sites.	Construction	N/A
Specific Mitigation Measures for Designated Projects							
DP2- Castle Peak Road Diversion (Major Improvement)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.A9	LV1-DP2	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed Design Consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	N/A
S.12.A9 MM14.4	LV4-DP2	Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All watercourses, particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section	Prior to Construction and Construction Phase	N/A
S.12.A9 MM4	LV5-DP2	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction.	Protect and Preserve Trees	Government/ Detailed	Onsite	Prior to Construction	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor"s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV6-DP2	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	*Onsite where possible, otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's VegetationMaintenance Ambit" should be referred to.					
S.12.A9 MM6	LV7-DP2	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM8	LV9-DP2	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA.	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii.* The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9	LV10-	Vertical Greening – Planting of climbers to grow up vertical surfaces were	Soften hard surfaces and	Government	*On appropriate*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM9	DP2	appropriate (e.g. viaduct piers, noise barriers).	facilities	Detailed Design Consultant/ Contractor	*structures*	Construction, Construction Phase & Maintenance in Operation Phase	
S.12.A9 MM11	LV11-DP2	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM12	LV12-DP2	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural	To soften the hard, straight edges and provide greening along roads.	Government Detailed Design Consultant/ Contractor	*On viaducts or along roads.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)					
S.12.A9 MM13 & EIA Annex 13	LV13-DP2	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance onwetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14-DP2	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well asconsideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
S.12.A9 MM15	LV15-DP2	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA*	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16-DP2	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.A9 MM17	LV17-DP2	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	^
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E2-DP2	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor/ Maintenance Authority	Within NDA.	Detailed design phase, Construction phase and Operation phase.	^
Ecology (Construction Phase)							
S.13.9	E3-DP2	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna.	Contractor.	Interface between areas/habitats of ecological importance (KTN area B1-3) and works areas.	Construction phase.	^
S13.9	E4-DP2	Compensatory native woodland planting.	Compensate for loss of	Project	KTN NDA areas	Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			plantation of ecological significance.	Proponent / Contractor	E1-8 and G1-3.	phase.	
Cultural Heritage (Construction Phase)							
S11.6.2	CH5-DP2	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment,	N/A
DP3- KTN NDA Road P1 and P2 (New Road) and associated new Kwu Tung Interchange (New Road) and Pak Shek Au Interchange Improvement (Major Improvement)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.A9	LV1-DP3	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed Design Consultant/ Contractor	*Throughout NDAs,*	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	^
S.12.A9	LV4-	Avoid affecting Watercourses – In the detailed design, consideration should	Avoid direct impacts to	Detailed	*All watercourses,*	Prior to Construction	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM14.4	DP3	be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.	watercourses	Design Consultant/ Contractor	*particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section*	And Construction Phase	
S.12.A9 MM4	LV5-DP3	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor‟s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will	Protect and Preserve Trees	Government Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.A9 MM5	LV6-DP3	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit" should be referred to.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM6	LV7-DP3	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where	To avoid substantial slope cutting and fill slopes. To prevent erosion and	Government Detailed Design Consultant/	*Onsite*	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Contractor		Maintenance in Operation Phase	
S.12.A9 MM7	LV8-DP3	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensate orytrees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica,* and *Rhododendron simsii* are suggested.	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9	LV9-	Woodland Compensatory Planting –Specific Woodland compensatory	Reprovide areas of	Project	*In areas*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM8	DP3	planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, XanthoxlyumavicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii.* The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for	woodland to compensate for those areas of quality woodland lost.	Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Construction, Construction Phase & Maintenance in Operation Phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9 MM9	LV10-DP3	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM11	LV11-DP3	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9	LV12-	Road Greening –For viaducts, soft landscaping should be provided to soften	To soften the hard,	Government	*On viaducts or*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM12	DP3	the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	straight edges and provide greening along roads.	Detailed Design Consultant/ Contractor	*along roads.*	Construction, Construction Phase & Maintenance in Operation Phase	
S.12.A9 MM13 EIA Annex 13	LV13-DP3	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance onwetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14-DP3	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel	Minimize the necessity of watercourse modification,	Government / Detailed Design	*Channelized watercourse, particularly the*	Prior to Construction, Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.	protect watercourses where possible and enhance channelized watercourses	Consultant/ Contractor	*Ma Wat River Channel Diversion*	Phase & Maintenance in Operation Phase	
S.12.A9 MM15	LV15-DP3	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.		Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA*	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16-DP3	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically	To screen undesirable views	Contractor	*Throughout NDAs*	Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	of the works site.				
S.12.A9 MM17	LV17-DP3	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E3-DP3	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor Maintenance Authority.	Throughout.	Detailed design, Construction and Operation phases.	^
Ecology (Construction Phase)							
S.13.9	E4-DP3	Creation of proposed Long Valley Nature Park and creation and enhancement of wetland and woodland areas and buffer planting within LVNP.	Compensate for wetland loss arising from the project.	Project Proponent/ Contractor	Long Valley	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
				(LVNP Detailed Habitat Creation & Management Plan).			
S.13.9	E5-DP3	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance on edge of development areas, including along any roads adjacent to or penetrating into areas/habitats of ecological importance.	Minimize dust,disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flightline impacts to birds,	Contractor.	Interface between areas/habitats of ecological importance (KTN areas B1-3, H1-1) and works areas.	Construction phase.	N/A
S13.9	E6-DP3	Compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Project Proponent / Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
DP4- KTN NDA Road D1 to D5 (New Road)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.A9	LV1-DP4	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to		Detailed Design Consultant/	Throughout NDAs,	Prior to Construction, Construction & for all	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Contractor		planting, this should be installed as soon as the areas become available, to achieve early establishment	
S.12.A9 MM1	LV2-DP4	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor/	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.A9 MM2	LV3-DP4	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible	Detailed Design Consultant/	Throughout NDAs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.	into the surrounding landscape				
S.12.A9	LV4-	Tree Protection & Preservation – Exiting trees to be retained within the	Protect and Preserve Trees	Government /	Onsite	Prior to Construction	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM4	DP4	Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Detailed Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV5-DP4	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite possible. Consider locations where Otherwise offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					
S.12.A9 MM6	LV6-DP4	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM7	LV7-DP4	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested..					
S.12.A9 MM8	LV8-DP4	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora,	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9 MM9	LV9-DP4	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	On appropriate structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM11	LV10-DP4	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads	Government / Detailed Design	Along roads, around suitable	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Consultant/ Contractor	built structures , or around VSRs to contain their view out to the NDA structures.	Maintenance in Operation Phase	
S.12.A9 MM12	LV11-DP4	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	To soften the hard, straight edges and provide greening along roads.	Government Detailed Design Consultant/ Contractor	On viaducts or along roads.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM13 & EIA Annex 13	LV12-DP4	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance on-wetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/	Onsite where possible. Otherwise consider offsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		along the embankments and beds of modified/ re-provisioned watercourses.		Contractor/ Maintenance Authority	locations		
S.12.A9 MM15	LV13-DP4	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV14-DP4	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor			N/A
S.12.A9 MM17	LV15-DP4	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.					
Ecology (Prior to Detailed Design Prior to Construction Phase)							
S. 13.9	E1-DP4	Egretry Habitat Creation & Management Plan (EHCMP) and Woodland Planting and Management Plan (WPMP)	Compensate for loss of Man Kam To Road egretry. Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Detailed Design Consultant (EHCMP and WPMP).	FLN area A1-7 (egretry compensation). KTN areas E1-8 and G1-3 (woodland compensation).	Detailed design phase.	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E2-DP4	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor Maintenance Authority.	Throughout.	Throughout.	N/A
Ecology (Construction Phase)							
S.13.9	E3-DP4	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora	Contractor.	Interface between areas/habitats of ecological importance (KTN	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			and fauna.		areas B1-3, E1-8, G1-3 and H1-1) and works areas		
S13.9	E4-DP4	Compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Project Proponent / Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
S13.8	E5-DP4	Maintenance of compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Maintenance Authority.	KTN areas E1-8 and G1-3.	Operation phase	N/A
Cultural Heritage (Pre-construction Phase)							
S11.6.1	CH1-DP4	<u>Undertaking Survey-cum-Rescue Excavation</u> A Survey-cum-Rescue Excavation should be conducted after land resumption and before the commencement of construction works to define the precise archaeological deposits extent and to preserve the archaeological resources by record. The excavation should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible.	Project Proponent / Contractor/ Qualified Archaeologist	In KTN NDA, for Site 1	After land resumption but before Construction commencement of the zones	N/A
S11.6.1	CH2-DP4	<u>Undertaking Further Archaeological Survey to Cover the Outstanding Areas</u> Further archaeological surveys to cover the outstanding areas of the not-yet-surveyed-area with medium archaeological potential located with	To confirm and verify the findings of the EIA	Project Proponent/ Contractor/ Qualified	In the not-yet-surveyed- areas with medium archaeological	After land resumption but before construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		areas with proposed development as presented in **Figure 11.9** should be implemented after land resumption to confirm and verify the findings of the EIA. The survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance. It should be noted that the scope of further archaeological survey is based on the current proposed alignment. Any additional works areas which have not been covered by the current archaeological impact assessment should be covered as soon as possible. Subject to the findings of the archaeological survey to be conducted after land resumption, additional mitigation measures would be designed and implemented before the commencement of construction works to mitigate the adverse impact.		Archaeologist	potential located within the work extent of DP4		
S11.6.1	CH3-DP4	Undertaking Induction Training Induction training should be provided to the construction Contractor before the commencement of the excavation works in Spot E. An induction will be conducted as part of the environmental health and safety induction programme to all site staff before they are deployed on site. The induction will include an introduction on the historical development of the Site, the possible archaeological remains that may be encountered during ground excavation works as well as the reporting procedures in case suspected archaeological remains are identified. A set	To preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	Spot E	Before the commencement of the excavation works and before site staff are deployed on site	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		of the presentation material (in the form of power point presentation) with content details will be prepared by an archaeologist and submitted to AMO for reference and record purpose. The first induction briefing will be video recorded and it will be used as induction briefing material for new site staff.					
S11.6.2	CH4-DP4	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out by the Project Proponent.	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	Entrance Gate of HKT03, KT16, KT17 and KT18	Prior to Removal / Relocation of features before commencement of construction works	N/A
S11.6.2	CH5-DP4	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 15mm/s could be adopted for historic buildings) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	HKT03 (Main Building) and G308	Preconstruction stage before commencement of construction works	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report.					
S11.6.2	CH6-DP4	Relocation of Built Heritages Relocation of built heritages to a reasonable location nearby may be required.	To preserve the directly impacted sites by relocation	Project Proponent/ Contractor	Entrance Gate of HKT03	After the photographic and cartographic records and before commencement of construction works	N/A
Cultural Heritage (Construction Phase)							
S11.6.2	CH7-DP4	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment,	N/A
DP5- New sewage pumping stations (SPSs) in KTN NDA							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.B9	S.12.B9	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated		Detailed Design Consultant/ Contractor/	Throughout NDAs,	Prior to Construction, Construction & for all planting,	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.				this should be installed as soon as the areas become available, to achieve early establishment	
S.12.B9 MM1	LV2-DP5	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor/	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.B9 MM2	LV3-DP5	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form,	Improve visual amenity of the new buildings, NDAs in	Detailed Design Consultant/	Throughout NDAs	Throughout NDAs	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated Construction time frame should also be considered.	general and integrate as best possible into the surrounding landscape				
S.12.B9 MM4	LV4-DP5	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular	Protect and Preserve Trees	Government Detailed Design	Onsite	Prior to Construction and	#

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		(Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor"s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Consultant/ Contractor		Construction Phase	
S.12.B9 MM5	LV5-DP5	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite location.	Prior to Construction,, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit‟ should be referred to.					
S.12.B9 MM6	LV6-DP5	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Detailed Design Consultant/	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM7	LV7-DP5	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica,* and *Rhododendron simsii* are suggested.					
S.12.B9 MM8	LV8-DP5	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum*	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus omentosa, Rhaphiolepis indica, and Rhododendron simsii. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.B9 MM9	LV9-DP5	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.B9 MM10	LV10-DP5	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Detailed Design Consultant/ Contractor	*On appropriate buildings*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM11	LV11-DP5	Screen Planting – Tall screen/buffer trees and shrubs should be implanted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM14.3	LV12-DP5	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
Landscape and Visual (Construction)							
S.12.B9 MM16	LV13-DP5	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	N/A
S.12.B9 MM17	LV14-DP5	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	^
Ecology (Construction Phase)							
S.13.9	E1-DP5	Design and erection of 2m high solid dull green site barrier fence	Minimize dust,	Contractor.	*Interface*	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		between active works areas and all areas/habitats of ecological importance.	disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna.		*between areas/habitats of ecological importance and works areas (all sides of KTN area F1-2).*		
DP7-Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works (SWHSTW)							
Landscape and Visual (Construction Phase and Operational Phase)							
S.12.9 MM4	LV1-DP7	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		tree protection measures for those trees to be retained.					
S.12.9 MM9	LV2-DP7	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. building edges, piers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM10	LV3-DP7	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Detailed Design Consultant/ Contractor	*On appropriate buildings*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
DP10- Fanling Bypass Eastern Section (New Road)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.D9	LV1-DP10	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated		Detailed Design Consultant/ Contractor	*Throughout NDAs,*	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.				available, to achieve early establishment	
S.12.D9 MM1	LV2-DP10	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government/ Detailed Design Consultant/ Contractor	*Throughout NDAs, particularly for reservoirs*	Prior to Construction	N/A
S.12.D9 MM4	LV3-DP10	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any	Protect and Preserve Trees	Government/ Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.D9 MM5	LV4-DP10	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be	Transplant Trees where suitable for transplantation	Government/ Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		referred to.					
S.12.D9 MM6	LV5-DP10	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM7	LV6-DP10	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma*	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested.					
S.12.D9 MM8	LV7-DP10	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda*. In addition some understory vegetation may be planted including shrubs such as *Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa,*	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Rhaphiolepis indica, and Rhododendron simsii. *The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.*					
S.12.D9 MM9	LV8-DP10	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government/ Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM11	LV9-DP10	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government/ Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9M	LV10-	Road Greening –For viaducts, soft landscaping should be provided to	To soften the hard, straight	Government/	*On viaducts or*	Prior to Construction,	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
M12	DP10	soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	edges and provide greening along roads.	Detailed Design Consultant/ Contractor	*along roads.*	Construction Phase & Maintenance in Operation Phase	
S.12.D9 MM14.3	LV11-DP10	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government/ Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
Landscape and Visual (Construction)							
S.12.D9 MM16	LV12-DP10	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	^
S.12.D9 MM17	LV13-DP10	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation phases	^
Ecology (Detailed Design, Construction and Operational Phases)							
S13.8	E1-DP10	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/	*Throughout NDAs*	Detailed design, construction and	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
				Contractor Maintenance Authority.		Operation phases.	
Ecology (Construction Phase)							
S13.9	E3-DP10	Lower reaches of Siu Hang San Tsuen Stream to have 10m wide vegetated buffer in Open Space Zone D1-3 and Fanling Bypass to cross stream on viaduct.	Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.	Contractor.	*FLN area D1-3.*	Construction phase.	^
S.13.9	E4-DP10	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flight-line impacts to birds, especially breeding ardeids.	Contractor.	*Interface between areas/habitats of ecological importance and works areas (all of the north side of the Bypass works areas west of interchange with Sha Tau Kok Road).*	Construction phase.	^
Cultural Heritage (Construction Phase)							
S11.6.2	CH4-DP10	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures	To minimize the potential impacts during Construction phase on any	Contractor.	*Identified potential vibration impacted built*	Construction phase, with details specified in baseline condition	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	identified potential vibration impacted built heritage features		*heritage features*	survey and baseline vibration impact assessment,	
DP12-Reprovision of temporary wholesale market in FLN NDA							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.D9	LV1-DP12	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed design consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	N/A
S.12.D9 MM1	LV2-DP12	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.					
S.12.D9 MM2	LV3-DP12	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible into the surrounding landscape	Detailed Design Consultant	Throughout NDAs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.					
S.12.D9 MM4	LV4-DP12	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.D9 MM5	LV5-DP12	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM6	LV6-DP12	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are	To avoid substantial slope cutting and fill slopes.	Government / Detailed Design	Onsite	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Consultant/ Contractor		Maintenance in Operation Phase	
S.12.D9 MM7	LV7-DP12	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia,*	Compensate for trees and shrubs lost due to the Project.	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Rhodomyrtus tomentosa, Rhaphiolepis indica, and *Rhododendron simsii* are suggested.					
S.12.D9 MM11	LV8-DP12	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.D9 MM16	LV9-DP12	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	Throughout NDAs	Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.D9 MM17	LV10-DP12	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A

Implementation status:

^ Mitigation measure was fully implemented

* Observation/reminder was made during site audit but improved/rectified by the contractor

\# Observation/reminder was made during site audit but not yet improved/rectified by the contractor

X Non-compliance of mitigation measure

• Non-compliance but rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

APPENDIX R
WASTE GENERATION IN THE REPORTING MONTH

Name of Department: Civil Engineering and Development Department

Monthly Summary Waste Flow Table for 2025

.

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in Other Projects (c)	Disposed as Public Fill (d)	Imported Fill (e)	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	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)
January	2.197	0.000	2.030	0.165	0.003	0.000	0.001	0.366	0.002	0.000	0.247
February	2.223	0.000	1.592	0.437	0.194	1.587	38.061	0.375	1.451	0.450	0.247
March	2.595	0.000	0.240	2.355	0.000	0.051	78.774	0.456	11.153	0.000	0.302
April	4.412	0.000	0.000	4.412	0.000	0.070	0.003	0.336	0.002	0.000	0.225
May	13.490	0.000	1.025	12.458	0.006	0.294	29.501	0.344	0.003	0.000	0.221
June	2.974	0.000	0.057	2.917	0.000	0.001	274.071	0.419	0.001	0.000	0.216
Sub-total	27.891	0.000	4.944	22.745	0.203	2.003	420.411	2.296	12.612	0.450	1.457
July*	5.579	0.000	0.428	4.892	0.259	0.729	0.002	0.415	3.893	0.000	0.265
August											
September											
October											
November											
December											
Total	33.470	0.000	5.371	27.637	0.462	2.733	420.412	2.711	16.504	0.450	1.722

*Remark: Total 343.05 m3 soil was imported from other contract in July. 52.37 m3 G200 imported from TM38 on 2 July and 3 July. 333.75 m3 sand imported from industrial limited on 25 July and 28 July. Record counted as "Imported Fill" with density of 1.8 tonne/m3 for soil, 2.0 tonne/m3 for G200 and 1.6 tonne/m3 for sand. The quantity of "Disposed as Public Fill" and "Others, e.g. general refuse" are up to 27 July 2025.

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
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**	**Plastics (see Note 3)**	**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)**
1,310.619	300.000	1,010.619	0.000	0.000	0.000	20.000	10.000	20.000	0.500	10.000

Notes: (1) The performance target are given in PS Clause 1.115(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m^3.
(5) Conversion factors for reporting purpose:
in-situ: rock = 2.5 tonnes/m^3; soil = 2.0 tonnes/m^3
excavated: rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3
broken concrete and bitumen = 2.4 tonnes/m^3
C&D Waste = 0.9 tonnes/m^3
Slurry = 1.0 tonnes/m3
(6) Numbers are rounded off to the nearest three decimal places
* Forecast figure for the entire contract period

俊和－群利聯營體
CW－KL JV

Name of Department: CEDD

Appendix F

Contract No.: ND/2019/02

Year **2025**

Waste Flow Table

Month	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
		Hard Rock and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill* (e)	Imported Fill (f)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse#
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	3,836.54	0.00	0.00	3,700.33	0.00	0.00	0.00	0.00	0.00	0.00	136.21
Feb	3,269.06	0.00	0.00	3,141.29	0.00	0.00	0.00	0.00	0.00	0.00	127.77
Mar	2,763.02	0.00	0.00	2,649.28	0.00	0.00	0.00	0.00	0.00	0.00	113.74
Apr	6,438.28	0.00	0.00	6,376.57	0.00	0.00	0.00	0.00	0.00	0.00	61.71
May	8,050.30	0.00	926.49	6,806.97	0.00	0.00	0.00	0.00	0.00	0.00	316.84
June	5,818.21	0.00	1,338.83	4,448.58	0.00	0.00	0.00	0.00	0.00	0.00	30.80
Sub-total	30,175.41	0.00	2,265.32	27,123.02	0.00	0.00	0.0000	0.00	0.0000	0.000	787.070
July	1,085.72	0.00	126.71	882.00	0.00	0.00	0.00	0.00	0.00	0.00	77.01
Aug											
Sept											
Oct											
Nov											
Dec											
Sub-total	1,085.72	0.00	126.71	882.00	0.00	0.00	0.00	0.00	0.00	0.00	77.01
Total	31,261.13	0.00	2,392.03	28,005.02	0.00	0.00	0.00	0.00	0.00	0.00	864.08

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

Forecast of Total Quantities of C&D Materials to be Generated from the ND/2019/02											
Forecast Made at the End of the Project	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemicals Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Total:	234,210	8,400	2,500	0	231,710	600	100	1.0	0.5	0.5	375

DCK JV

Appendix F
Contract No.: ND/2019/04

Monthly Summary Waste Flow Table for 2025 (Year)

Month	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly					
		Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill (e)	Metals (f)	Paper/ cardboard packaging (g)	Plastics (h)	Glass (i)	Chemical Waste (j)	Others, e.g. general refuse (k)
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	25,135.25	0.00	24,952.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.50
Feb	13,816.66	0.00	13,167.98	0.00	367.95	105.19	0.00	0.00	0.00	0.00	0.00	175.54
Mar	5,561.23	0.00	5,197.01	0.00	65.26	105.76	0.00	0.00	0.00	0.00	0.00	193.20
Apr	13,933.23	0.00	4,046.85	0.00	9,742.31	0.00	0.00	0.00	0.00	0.00	0.00	144.07
May	3,007.67	0.00	1,932.09	0.00	470.02	406.45	0.00	0.00	0.00	0.00	0.00	199.11
June	2,714.64	0.00	781.01	0.00	192.50	1,608.22	0.00	0.00	0.00	0.00	0.00	132.91
Sub-total	64,168.68	0.00	50,077.69	0.00	10,838.04	2,225.62	0.00	0.00	0.000	0.000	0.00	1,027.33
July	615.36	0.00	0.00	0.00	196.65	261.84	0.00	0.00	0.00	0.00	0.00	156.87
Aug												
Sept												
Oct												
Nov												
Dec												
Sub-total	615.36	0.00	0.00	0.00	196.65	261.84	0.00	0.00	0.00	0.00	0.00	156.87
Total	64,784.04	0.00	50,077.69	0.00	11,034.69	2,487.46	0.00	0.00	0.00	0.00	0.00	1,184.20

Notes:
(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
(3) Broken concrete for recycling into aggregates.
(4) Total quantity generated = a+b+c+d+e+f+g+h+i+j

DCK JV

Appendix F

Contract No.: ND/2019/04

Forecast of Total Quantities of C&D Materials to be Generated from the DCK JV											
Forecast Made at the End of the Project	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
	160,282.30	0	10,000	20,000.00	60,000.00	32,200.00	80	0.8	0	1.5	19,500.00

Monthly Summary Waste Flow Table for 2025 (year)

Name of Person completing the record: Connie Yuen (EO)

Project : Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang) Contract No.: ND/2019/05

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated (a) = (b)+ (c)+(d)+(e)	Hard Rock and Large Broken Concrete (b)	*Reused in the Contract ©	Reused in other Projects (d)	Disposed as Public Fill (e)	Imported Fill (f)	Metals (g)	Paper/ cardboard packaging/ (h)	Plastics (i) (see Note 3)	Yard Waste (j)	Chemical Waste (k)	Others, e.g. general refuse (l)
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan-25	2.150	0.000	0.966	0.000	1.184	0.000	0.064	1.804	0.058	0.000	0.000	126.490
Feb-25	4.252	0.000	1.200	0.000	3.052	0.000	0.062	1.848	0.062	0.000	0.000	124.380
Mar-25	4.835	0.000	1.470	0.000	3.365	0.000	0.072	1.857	0.067	0.000	0.000	120.640
Apr-25	1.924	0.000	0.594	0.000	1.330	0.000	0.068	1.823	0.065	0.000	0.000	80.000
May-25	2.672	0.000	0.456	0.000	2.216	0.000	0.065	1.723	0.062	0.000	0.000	91.750
Jun-25	4.546	0.000	0.516	0.000	4.030	0.000	0.066	2.463	0.063	0.000	0.000	96.100
Sub-total	20.379	0.000	5.202	0.000	15.177	0.000	0.397	11.518	0.377	0.000	0.000	639.360
Jul-25	1.509	0.000	0.276	0.000	1.233	1.112	0.064	1.926	0.059	0.000	20.000	103.400
Aug-25	0.000											
Sep-25	0.000											
Oct-25	0.000											
Nov-25	0.000											
Dec-25	0.000											
Total in 2025	21.888	0.000	5.478	0.000	16.410	1.112	0.461	13.444	0.436	0.000	20.000	742.760
Total of the Project since 2020	137.654	0.000	18.763	2.857	116.034	5.110	142.464	39.124	4.692	819.512	24.982	6144.240

*Approx. estimation for each dump truck is 6m3/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 137.654 (in '000m3) (a) = (b)+ (c)+(d)+(e)

Monthly Summary Waste Flow Table for _2025__ (year)

Name of Person completing the record: KM LUI

Project : Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Contract No.: ND/2019/07

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 T)
Jan	0	0	0	0	0	0	0	0	0	0	0.024
Feb	0	0	0	0	0	0	0.006	0.050	1.073	0	0.041
Mar	0	0	0	0	0	0	0	0	0	0	0.053
Apr	0	0	0	0	0	0	0	0	0	0	0.027
May	0	0	0	0	0	0	0	0	0	0	0.040
Jun	0	0	0	0	0	0	0	0	0	0	0.067
Sub-total	0.0000	0.000	0.000	0.000	0.0000	0.000	0.006	0.050	1.073	0.000	0.252
Jul	0	0	0	0	0	0	0	0	0	0	0.031
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.050	1.073	0.000	0.283

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging materials.

(3) Broken concrete for recycling into aggregates.

(4) Total Quantity Gernerated = a+b+c+d..

APPENDIX S
COMPLAINT LOG

Appendix S - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2020-07-01	Public Road at Portion 6a (ND/2019/01)	13th July 2020	The EPD visit on 13 July 2020 was to respond the complaint received from the 2nd week in July regarding the dust problem in public road of Portion 6a. Mr. Tse (EPD) observed muddy wheel track on the public road, and he expressed that the public road should keep free of mud even it was inside the project area. He also advised BKRWJV (the Contractor) to clean up the muddy wheel track and provide rectified photos to him.	A designated person is provided at the ingress/egress for vehicle washing before the wheel washing facility is in use, this is to make sure all vehicle are free of mud before leaving the site. And, the designated person is also responsible for cleaning the public road if any mud is found on it.	Closed
COM-2020-11-01	Portion 4 and Portion 7 near Dills Corner Garden (ND/2019/01)	11th November 2020	The EPD inspection at Portion 4 on 11 November 2020 was to respond the complaint regarding the dust problem near Dills Corner Garden referred by a District Council Member. No construction activities was carried out and no obvious dust emission was observed. EPD advised BKRWJV (the Contractor) to increase the height of temporary water barrier and install sprinklers on bare ground. Another EPD inspection was conducted on 26 November 2020 at	The height of temporary water barrier was increased at Portion 4. Sprinklers were installed on bare ground at Portion 4 and on top soil at Portion 7. Manual water spraying were provided regularly. Hydroseeding will be provided on soil surface at Portion 4 for long-term measures. Proper implementation of dust mitigation measures will be continuously reviewed and monitored to avoid potential dust impact on site.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			Portion 7 for the dust complaint. During inspection, no obvious dust emission was observed and potential dust may generate from top soil which appear to be dry. EPD advised the Contractor to install sprinklers on top soil for dust suppression.		
COM-2020-11-02	Works Area A & B (ND/2019/05)	27th November 2020	The complainant complained about the noise generated from the alarm of scissors platform during works for PM's site accommodation on Sunday and called the police force. Police officer has checked that Construction Noise Permit has been applied for the construction work. Also, the complainant complained about the reflective blue color of roof material of site office.	Permit-to-Work system was properly implemented for works at restricted hours. The PME used have been checked in compliance with the valid Construction Noise Permit (CNP No.: GW-RN0788-20). Acoustics mats were erected between works area and noise sensitive receivers. Scissor platform or noisy work activities will be arranged and minimized to be used on Sunday or evening time on weekdays. Specific training for the quieter works arrangement was provided to workers. Also, the blue roof will be covered by non-reflective green roof material.	Closed
COM-2021-01-01	Ma Tso Lung Road (ND/2019/01)	7th January 2021	A complaint regarding soil deposited on Ma Tso Lung Road was referred by EPD verbally.	No soil / mud deposit or mud track were observed along the Ma Tso Lung Road during investigation and site inspection between Contractor, the *Supervisor*, ET and IEC. The road condition of Ma Tso Lung Road will be closely monitored and the public road will be regularly cleaned if mud deposit was observed. Wheel washing facilities at every site entrance will be regularly monitored to ensure proper implementation of dust control measures.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2021-01-02	Ma Tso Lung Road (Near L/P VD5622) (ND/2019/01)	13th January 2021	A complaint was received from 1823 regarding the suspected odour emitted from muddy water discharged.	Water sample collected from the wastewater treatment facility was clear and no odour was detected. Sewage from chemical toilet was collected on a regular basis by licensed collector. Brownish wastewater was observed discharging upstream of the site from an unknown factory to the uncharted channel which may be potential source of the odour.	Closed
COM-2021-01-03	CTC Storage Yard (ND/2019/05)	22nd January 2021	A complaint was referred from EPD regarding the noise generated before 7 a.m. on weekdays and machinery noise generated on Sunday from CTC Storage Yard.	No attendance record of workers working for CTC Storage Yard earlier than 8 a.m. and on Sunday (day of complaint) was recorded. To ensure strict compliance to Noise Control Ordinance and prevent noise nuisance to the nearby villages, the Contractor has implemented the following enhancement measures: 1. Issue a memo to the relevant sub-contractor on restricted working hour. 2. Conduct specific training to sub-contractor frontline supervisor and works. 3. Apply a construction noise permit for the suspected location.	Closed
COM-2021-01-04	Ho Sheung Heung (ND/2019/02)	28th January 2021	A complaint was received from 1823 regarding an idling construction vehicle near Ho Sheung Heung to operate the engine for over 10	Ad-hoc training was provided to workers on switching off idling engines when awaiting on site. Poster for “Switching off idling engines” was posted at site entrance to alert workers on the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			minutes. Also, the complainant complained on noise nuisance from the speaker during meeting.	issue. For noise nuisance from the meeting, the speaker volume in the future event will be lower as much as possible.	
COM-2021-02-01	CTC Storage Yard (ND/2019/05)	4th February 2021	A complaint was received from EPD call on 2nd February 2021 regarding a noise complaint from a Tong Hang villager about noise from CTC storage yard at around 19:00 – 20:00 on 1st February 2021.	The suspected cause of the complaint was the delivery of a rotary drilling rig by a tractor lorry arrived at CTC Storage Yard at around 19:00 at 1st February 2021. The delivery time was restricted due to the oversized tractor lorry (width >2.4m and length protruded >1.4m at tractor tail). No loading and unloading was conducted during the time of complaint. For follow up action, the Contractor will apply Construction Noise Permit for any foreseeable delivery that may not be finished before restricted hours and will notify possible affected village representatives in advance.	Closed
COM-2021-02-02	CTC Storage Yard (ND/2019/05)	16th February 2021	A complaint was received from EPD call on 10th February 2021 regarding a noise complaint from a Tong Hang villager about some impact noise from CTC Storage yard at Sunday's daytime (7th February 2021).	Under investigation, erection of chain link fence for separating works area and adjacent village house was conducted by a sub-contractor on 7th February 2021 without notification to the Contractor. Sub-contractor has been reminded that any work within site area shall be conducted after instruction by the Contractor and permit-to-work system on restricted hours works shall be strictly followed.	Closed
COM-2021-02-03	CTC Storage Yard (ND/2019/05)	2nd March 2021	A complaint was received from EPD call on 24th February 2021 regarding a noise complaint from a Tong Hang villagers about some machinery noise	Further enhancement on erection of acoustics mats and mobile acoustics mat panels was conducted at strategic location at E1-01 for mitigation of the noise impact to the nearby	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			and dust from CTC Storage yard. Joint site inspection of the Contractor, the *supervisor* and EPD was conducted on the same day for the bored piling at CTC Storage Yard and check on the noise and dust mitigation measures. EPD requested to enhance noise and dust mitigation measures for grabbing operation of the Rotary Drill Rig for construction of piles of E1-01.	sensitive receivers. Regular water spraying has been applied to suppress the dust from grabbing procedure and the skip.	
COM-2021-03-01	Ma Tso Lung Shun Yee San Tsuen (ND/2019/01)	1st March 2021	A complaint was referred from EPD regarding fly-tipping of C&D waste near Ma Tso Lung Shun Yee San Tsuen and muddy public road.	Under investigation, the suspected site near Shun Yee San Tsuen was out of project site boundary. Internal trip ticket system was properly implemented for dump trucks transported from project site to other approved alternative disposal ground. Also, dump trucks were properly washed and mechanical cover of dump trucks were closed while leaving the site. For follow up action, banners and flags were displayed on site to promote the environmental protection awareness. Regular training was provided to remind the dump truck drivers that illegal dumping is strictly prohibited.	Closed
COM-2021-03-02	CTC Storage Yard (ND/2019/05)	15th March 2021	A complaint was received from EPD call and an inspection by EPD was conducted on 9th March 2021 regarding a dust complaint from a Tong Hang villager. The complainant	For follow up action, the Contractor provided training to remind frontline supervisors and workers to wet the auger before movement when it was dried for preventing any occasional situation that the auger was dried.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			complained that rotary drill rig shall be equipped with enclosure for dust control and rotary drill rig had exhaust disturbance. Also, the complainant requested to improve wheel washing at site entrance.	The Contractor provided training to brief frontline supervisor and the operators to prevent exhaust disturbance. Also, the drill rigs exhaust pipe shall not face to the public area. If it is avoidable, screens shall be arranged to divert the exhaust gas. An additional cut-off drain was constructed and notice signs were erected for notifying drivers to give wheel washing in front of the cut-off drains.	
COM-2021-03-03	Ma Tso Lung Road (ND/2019/01)	9th April 2021	A complaint was referred from EPD on 23 March 2021 regarding muddy public access road along Ma Tso Lung Road.	The muddy access road was found generated from a nearby private factory where the access road is not hard paved. The Contractor arranged water browser to help clean up the section of road on 24th and 25th March 2021 respectively. Also, dump truck were properly washed at project site exit near Ma Tso Lung Road.	Closed
COM-2021-04-01	Long Valley, Kwu Tung (ND/2019/03)	9th April 2021	A complaint was referred from EPD regarding to associated impacts arising from construction works at Long Valley Nature Park, causing nuisance and affecting the habitat and ecological value in Long Valley.	Construction works for development of Long Valley Nature Park are conducted according to the recommended mitigation measures stated in Habitat Creation and Management Plan. Wetland creation and restoration works are in progress which include provision of paddy field, turning abandoned agricultural lands into wet agricultural land and provision of open water habitat with bird island. Irrigation channel is under construction for provision of reliable water supply to farmland. For construction works, the following significant mitigation measures are implemented: 1. Provide noise barriers to minimize noise nuisance to adjacent field where Greater Painted-	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				snipe was found; 2. Arrange concrete pump for concreting works to minimise noise impact; 3. Provide water spraying on the exposed earth to dampen the dusty surface; 4. Provide shade cloth to separate works area and marsh where Greater Painted-snipe were found; 5. Demarcation of temporary vehicle access to prohibit vehicle across the farmland; 6. Provide 2m dull green site boundary fence along Long Valley work areas; and 7. Block the main accesses by temporary barrier to avoid human disturbance.	
COM-2021-04-02	Close to junction of Ma Wat River and Ng Tung River (ND/2019/04, ND/2019/05, ND/2019/06)	23rd April 2021	A complaint was referred from EPD regarding to suspected polluting effluent discharged from Ma Wat River near junction of Ma Wat River and Ng Tung River.	Under investigation, muddy water was observed from a small stream of Ma Wat River which is outside project site boundary. Contractor's wastewater treatment facilities and mitigation measures on water quality were checked. Latest discharge monitoring results shows the discharge quality in compliance with the limit stated in the discharge licence. The following mitigation measures will keep implemented and inspected: 1. Installation of silt curtain, geotextiles and concrete blocks for excavation works at Ng Tung River with regular inspection; 2. Exposed slope paved with concrete to prevent muddy runoff; 3. Setting up wastewater treatment plants at	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				several locations of the site area; 4. Bund/seal off works area near river and set up with dewatering system; 5. Spare water pumps and sand bags for emergency use during heavy rain; 6. Regular training to the operators of wastewater treatment facilities; and 7. Regular checking and maintenance of the wastewater treatment facilities and desilting tank.	
COM-2021-04-03	Near Shek Wu San Tsuen, Sheung Shui (ND/2019/04)	28th April 2021	A complaint was referred from EPD regarding to construction dust arising from dump trucks from construction sites near Shek Wu San Tsuen.	No obvious dust emission was observed during EPD inspection on 28th and 29th April 2021, However, potential dust impact may arise from sandy materials found on public road and exposed ground surface. For follow up action, soil debris were removed at public road. Water spraying was provided on the exposed ground surface. Also, all dump trucks are covered properly and wheel wash is provided before leaving site. Implemented of the mitigation measures will keep reviewed and monitored.	Closed
COM-2021-05-01	Near Tong Hang section of Ma Wat River (ND/2019/05)	17th May 2021	A complaint was referred from EPD regarding to suspected polluting effluent discharged from construction sites near Ma Wat River.	Under investigation, no pollution from works areas near Ma Wat River was observed. For wastewater pollution control, all wastewater treatment facilities have been setup at discharge points. According to the latest discharge monitoring results on April 2021, no non-compliance to limit set in discharge licence was recorded. Regular maintenance and services of the facilities have been conducted. Close monitoring	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				with checklist has been conducted by operators of the facilities. Mitigation measures such as sealing gaps between concrete blocks/water barriers/pipe pile walls have been implemented to prevent leakage. Implementation of the mitigation measures will keep reviewed and closely monitored.	
COM-2021-09-01	Chau Tau Road near the CLP Chau Tau Substation (ND/2019/01)	2nd September 2021	A complaint was referred by EPD and an inspection by EPD was conducted on 3 September 2021 regarding a muddy public access road at Chau Tau Road near the CLP Chau Tau Substation.	Ad-hoc site inspection was conducted on 2 Sep 2021 at Chau Tau Road near the CLP Chau Tau Substation, no muddy wheel track or soil deposit was observed. No concrete lorry was observed using the Chau Tau Road near the CLP Chau Tau Substation. Concreting at Portion 5 was observed during EPD inspection on 3 September 2021, wheel washing bay and manual wheel washing was provided at site exit, all vehicles were properly washed and no muddy track was observed at Chau Tau Road. The Contractor has been implement following mitigation measure upon received the complaint: • Rearranged the traffic route and informed the concrete lorry drivers not to use Chau Tau Road; • Keep monitoring the effectiveness of the wheel washing facilities at site exist; and • Clean up the public road immediately if soil deposit was observed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2021-09-02	Not specified (ND/2019/01)	3rd September 2021	A complaint was referred by EPD regarding C&D waste stored on site.	Refer to the photos provided by the complainant, the mentioned C&D waste mainly felled trees mixed with general refuse and temporary stored within the site boundary, Ad-hoc site inspection was conducted by Contractor and RSS on 3rd September 2021, all C&D waste were stored within the site boundary, no odour perceived during site inspection. The Contractor has been implement following mitigation measure upon received the complaint: • Sort out the non-inert waste from the felled trees; • Remove the general refuse if possible, otherwise, coved by tarpaulin sheet; and • Relocate or transport the yard waste to other places which are not easy visible by public. Implementation of the mitigation measures will keep reviewed and closely monitored to ensure no adverse impact will be generated from the construction works of the Project.	Closed
COM-2021-11-01	Close to Shek Wu San Tsuen (ND/2019/04)	3rd November 2021	A complaint was referred from EPD on 22th November 2021, about various issues including suspected environmental nuisances from the captioned Project from a member of public on 3rd Nov 2021. He followed-up again on 19th Nov 2021.	Site inspection was conducted by contractor and EPD inspectors on 25th November 2021, no obvious dust emission was observed within site boundary. The potential dust impact may arise from sandy materials found at public road which is under DSD maintenance. Air quality monitoring was carried out at location FLN-DMS1 - Scattered Village	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				Houses North of Proposed Potential Ecopark and Location FLN-DMS5 - Noble Hill near Shek Wu San Tsuen in accordance with the EM&A manual. With reference to the air quality monitoring data collected in Nov 2021, all monitoring data were complied with the action and limit level and no exceedance was recorded. The Contractor has been implement following mitigation measure upon received the complaint: • 工程團隊亦已於接近民居並正在進行大型工程(例如建造大口徑樁)位置安裝了各種隔音屏障，例如在大型機器的發電機上加上隔音布、在圍板加上隔音屏障 • 增加自動灑水系統	
COM-2021-12-01	On Kui Street along Ma Wat River (ND/2019/05)	13rd December 2021	AECOM referred to public complaints received by 1823 on 13 December 2021 regarding "中鐵建保華聯營公司粉嶺地盤工人沖建築泥水落河 污染河道。"	Refer to the photo attached in the above complaint, it is suspected that there were bentonite slurry leaking from the flexible pipe joint near works area of pier C2-01 and the cause of incident as blow: • Tightness of flexible pipe joint • Worker's awareness and knowledge on proper handling of pipe leakage • Readiness of contingency tools and equipment for the pipe leakage The Contractor has been implement following mitigation measure upon received the complaint: • Doubling pipe clamps at each joint to strengthen the connection tightness and	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				seal • Briefing workers for proper spillage handling • Well readiness of contingency tools and equipment for handling of leakage • Designating responsible supervisor for regular pipeline condition check and monitoring • Daily inspection for pipeline condition by responsible supervisors before works • Erection of bunding/sandbags along the works area to effectively stop any potential leakage/surface runoff • Review and updated Environmental Management Plans (EMP) covering Site Specific Procedures for Muddy runoff/leakage Control (See CSF submission, ref. no. CSF/HSE/002115) on 21 Dec 2021 • Specific trainings of proper handling of leakage adjacent to the river/drainage for JV managerial and supervisory staff	
COM-2022-01-01	Close to Shek Wu San Tsuen (ND/2019/04)	13rd January 2022	A complaint was referred from EPD on 14 Jan 2022 from a public member alleged the captioned Project of "我們每個工作天都會受到高噪音和震動的影響，在沒有足夠的保障下，使近距離的民居十分擔心，屋裂有惡化跡象，兒童/長者難有	Contractor have carried out daily noise monitoring and vibration monitoring. No exceedance was recorded. The monitoring results are displayed on the notice board for easy reference. For noise control measures, QPME label are affixed to generators and acoustic noise barriers are mounted on powered mechanical equipments such as	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			寧靜環境，成人在家中工作、兒童做功課在噪雜的環保下，難以適應，我們很希望受到合理的重視和改善，使實際環境不會太差。”	excavators, crawler cranes and vibration hammers and installed along hoarding to minimize noise nuisance to neighborhood. Based on the findings of investigation, no exceedance of noise and vibration monitoring was found. Contractor will ensure that the construction works carried out must comply with the condition stated in the Noise Control Ordinance and to implement mitigation measures proposed in the Project Implementation Schedule.	
COM-2022-01-02	Near Sheung Yue River (ND/2019/02)	28th January 2022	A complaint was received from 1823 on 28 Jan 2022 regarding “在雙魚河河邊單車徑附近的工程，一個多月來，當工人沒有工作期間，所有機械都沒有熄匙，當機械運作時，產生很大的嗓音及很多廢氣。 理解工人有工作時，機械運作是正常，但一個月來工人沒工作時，機械依然運作，產生問題嚴重，要求部門跟進及處理。”	Investigation was conducted by contractor on 4 Feb 2022. All plants are turned off when awaiting more than 3 min. Dark smoke monitoring for the powered mechanical equipment had been carried out. No dark smoke was recorded. Based on the findings of investigation, no exceedance of noise and air monitoring was found. Follow-up Actions had been conducted on 4 Feb 2022. Mitigation measures are implemented. Dull green barriers are installed around active works areas to prevent dust emitted to the public. QPME is used to minimize noise nuisance to the neighbourhood. Specific environmental training about Noise and Smoke Control for Plants was provided to frontline staff on 4 Feb 2022. The frontline staff was reminded to switch off idling equipment for	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				preventing recurrence of idling construction equipment awaiting on site, and carry out routine maintenance of plant and equipment for mitigating unwanted noise and air pollutant emissions.	
COM-2022-02-01	Ng Tung River (ND/2019/04)	17th February 2022	EPD received 2 complaints from members of public about suspected disposal of foam waste and illegal discharge from the captioned Project to Ng Tung River on 13 & 16 Feb 2022 respectively. Details of complaint case received on 13 Feb 2022: 「本人途經唔上水悟洞河近馬屎埔新村附近地盤發現河道有大量懷疑發泡膠影響何到魚類生物, 要求環境保護署或相關部門進行跟進」 Details of complaint case received on 16 Feb 2022: 「2022年2月10日下午三時，發現梧桐河面出現乳白色，懷疑與附近工程泥漿水有關，懷疑經雨水渠排出。」	Investigation was conducted by contractor. It is found that no foam has been used on site. No construction works was carried out during 9 Feb to 14 Feb 2022 at A3 piling platform as two suspected close contact cases for A3-02 piling platform team was found. The bored piling works and A3 piling platform welding works was suspended from 9 Feb 2022 and resumed on 14 Feb 2022 after the whole team received negative results. Mitigation measures are implemented, there is a silt curtain enclosing the opened workfronts and the openings of the A3 piling platform. Hence, the platform and other workfronts along the river have no discharge to the river. In addition, it is reported that suspected contaminated water was discharging to Ma Wat River from surrounding industrial buildings near C5 contract site. Based on the findings of investigation, no foam	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				has been used by on site and no suspected contaminated water was discharged from the project. Thus, the complaint cases are not caused by our project.	
COM-2022-03-01	Near Ho Sheung Heung (ND/2019/02)	2nd March 2022	A complaint was received from EPD on 8 Mar 2022 from a public member regarding "投訴河上鄉鄉公所附近地盤的機器及吊雞車的難嗅氣味滋擾 "	Joint inspection for the issue was conducted by AECOM, Environmental team, Contractor on 9 March 2022 and no source of odour was found during the inspection. There was no major works. The area is for temporary soil storage. Only one excavator is at Portion 11. The excavator is well maintained and no bad smell is emitted. Moreover, all plants are checked before used. As per the contract requirement, project must use Euro V diesel in our plants, which is a cleaner fuel than industrial diesel and shall generate less odour. Project regularly conducts diesel sampling and testing to ensure that the used fuel is Euro V diesel. A diesel sampling for the excavator at Portion11 was also conducted on 9 March 2022. Based on the findings of investigation, all plants are well maintained and checked before use. Cleaner fuel is used for plants onsite. No odour was found. CW-KL JV mitigates air pollution from sources to reduce environmental nuisance to the neighbourhood.	Closed
COM-2022-03-02	Near Ho Sheung Heung (ND/2019/02)	23rd March 2022	A complaint was received from EPD on 22 Mar 2022 from a public member regarding "河鄉近洪聖爺廟	Joint inspection for the issue was conducted by AECOM, Environmental team, Independent Environmental Checker and Contractor on 25 March 2022. There was no major works. The area	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			有個很大的基建地盤, 經常發出很大噪音,包括車輛駛入後停泊時的聲浪,地盤面積有半個摩士公園大,車輛可以泊到其他地方,減少對居民的滋擾,之前亦曾作出相同投訴,有環保署職員跟進,故現堅持要求再次跟進及回覆 "	is for temporary soil storage. A dump truck was at portion 11, but left the site in short time. All dump trucks used in the project would not stay on site overnight and left the site before 6p.m. One excavator and one loader were at Portion11. No idling crane lorry was at Portion 11. The equipment would be switched off when not in use. Moreover, all our plants are well maintained and checked before used. Noise monitoring around Portion 11 had been conducted on 26, 28 and 29 March 2022 (AM and PM periods) by Contractor with AECOM. The noise levels are lower than the standard of noise requirement for domestic premises (75dB(A)). It was predicted that no noise exceedance would be found at NSRs. Environmental Training related to use of equipment onsite had been provided to site staff to increase their awareness of environmental protection. Posters of mitigating adverse environmental impacts had been fixed at Portion 11 to increase workers' environmental awareness. QR codes for air quality, noise, and water quality monitoring data conducted by Environmental team of the project had been also fixed at Portion 11 for the public's information. Based on the findings of investigation, all plants	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				are well maintained and checked before use. CW-KL JV mitigates noise pollution from sources to reduce environmental nuisance to the neighborhoods. No noise exceedance is predicted to be found at NSRs. Environmental promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-06-15	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 15 June 2022 from a public member regarding "本人住在梧桐河多年，每天都會到河邊兩岸進行晨運或會經河邊出外購物。由年頭開始，兩岸邊有些小型機械在進行工程，開始時還好，但近期發現機械所發出的黑煙比以前多，有時發現有些污水，泥水和油污流道出行人道來。本人有一次發現有些泥水和油污落到溝渠和地面，便好心跟現場人員講叫他們小心。但是他們沒有理會，因為梧桐河是一個非常美麗的地方，假日也有很多人來遊玩。避免意外發生，希望貴處能代為處理。"	Investigation was conducted by contractor and reply as follow: "工程團隊經常及日後亦會加緊巡視地盤範圍，同時敦促工程人員注重機械及挖掘機的廢氣排放，以及工程污水或泥水流出，減少對周邊環境的影響。" Air monitoring was conducted on 2, 8, 14, 20, 24 and 30 June 2022, including AM and PM period. No exceedance of air monitoring was found. One exceedance of Water Quality Monitoring was found on 13 June 2022, but based on the investigation report, there was no direct evidence showing that the exceedance recorded at the 3 nearby monitoring stations were due to Contract. For dark smoke emission, the contractor would collect and test the Ultra Low Sulphur Diesel(ULSD) content monthly. For monitoring of any muddy water discharging from construction activities, the contractor would collect and test the suspended solids from Ng Tung River monthly, also collect and test pH, suspended solids and	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				COD of wastewater sampling at wastewater treatment plant monthly.	
COM-2022-06-28	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 28 June 2022 from a public member regarding "連續兩日聞到燒塑膠燒鐵味，然後見到地盤這部機放黑煙，每幾秒噴一次村民不想再持續吸入這些毒氣。"	Investigation was conducted by contractor and reply as follow: "本工程沒有包含燃燒塑製品或鐵製品工序，而附近居民有焚燒垃圾習慣，有可能因而產生誤會；工程所使用的機械及挖掘機已符合環保署要求，有團隊接收投訴後即時於6月29日安排維修人員檢查相關挖掘松並無異常，同時就投訴人的關注已於7月4日將所述挖掘機調離該範圍。工程團隊會繼續盡力安排工程機械及挖掘機在合理工作距離內遠離居民住處，以減少對居民的影響。"	Closed
COM-2022-06-30	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 30 June 2022 from a public member regarding "講嚟講去都係得個講字，日日都大塵，又話整自動灑水系統等咗咁耐都冇，機器又放黑煙又臭。"	Investigation was conducted by contractor and reply as follow: "自動灑水系統已安裝完成，另外工程人員亦會手動向工地範圍噴灑水份，以減低塵埃對附近居民的影響；而由於相關投訴時段（6月30日）至今均為雨天，工程人員亦有持續觀察塵土飛揚及泥水等開題，由於雨水可有效隔絕塵埃，待天氣好轉後相關恆常減少塵埃的措施亦會恢復，例如地面乾燥就會進行相對應減少塵埃的措施，包括人手及自動灑水等。"	Closed
COM-2022-07-21	Man Young Storage area (ND/2019/05)	21st July 2022	EPD received a public complaint on 14 July 2022 from nearby villagers regarding noise and odour nuisance from generators. Complaint detail is as follow:	Investigation was conducted by contractor and clarify a few points as follow: 1. Instead of four generators being used simultaneously from the complaint, there shall be actually two generators being used	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			"現投訴地盤長期24 小時 長期用柴油發電機，做成民居滋擾，因為噪音及震動.附近居民無法睡眠，柴油氣味亦令人非常討厭，請問法例是否不能晚上七點後不能用柴油發電機.另外那地盤晚上七點後亦冇人工作.故亦不一需要長時間開發電機，而那地盤共有四個發電機同時開動.。該地盤為保華公司與中國建築聯營。正確地址為粉嶺塘坑村370 號。萬勇地盤。燈柱號碼AJ2326 對面"	alternatively (one is solely for standby purpose) for power supply of site works and containers. 2. Instead of 24 hours operation of the concerned generator from the complaint, there shall be actually no restricted hour (19:00-07:00) works for generator operation according to our permit-to-work system (see appendix I). 3. A valid construction noise permit (ref. no.: GW-RN0551-22) is obtained on 11/7/2022 covering concerned works area and PMEs before 23:00 (see appendix II). All conditions imposed on permit will be strictly followed once restricted hour works are conducted. The cause of the complaint is concluded to be noise and odour nuisance for the daily operation of one generator in non-restricted hours (07:00 to 19:00). For noise mitigation measures, contractor had arranged all generators of Quality Powered Mechanical Equipment (QPME) type and installed sound reduction fabric along the side of site boundary facing to the villagers. On top of these measures, JV had installed acoustic blanket (27 dB sound reduction) enclosing the two generators for non-restricted hour operation For odour mitigation measures, on top of currently	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				using all generators with approved NRMM type, JV also installed odour adsorption bags which is made of activated carbon during oil fueling practice to further reduce nuisance.	
COM-2022-07-27	Near Portion 1b/1c (Ma Tso Lung) (ND/2019/01)	27th July 2022	A complaint referred from 1823 regarding dust emission and noise impact, "古洞馬草壟地盤沒有任何圍板引致沙塵及噪音影響附近村民事宜"	The contractor claimed that due to the confirmation of site formation level of the hoarding, water main diversion and necessary access, the erection of site hoarding is on hold. Weekly environmental walk was conducted at the mentioned area on 19 and 26 July 2022, no obvious dust emissions and noise impacts were identified. EPD carried out complaint investigation at Portion 1b / 1c on 26 July 2022 at 11:00, no adverse comment was given. Air quality monitoring and noise monitoring were carried out at nearby location once to twice a week and no exceedance was recorded. An ad-hoc noise monitoring was carried out on 28 July 2022 at Portion 1b, no exceedance was recorded also. The contractor would start the hoarding erection in early of August 2022, erect tarpaulin sheet on temporary fencing in front of villager's house etc as mitigation. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2022-07-21	Lower Ng Tung River (from upstream Ma Wat River) (ND/2019/05)	29th July 2022	EPD received a complaint on 29 July 2022 concerning that the brownish silty water was continuously flowing to Lower Ng Tung River from upstream of Mat Wat River. The complaint was forwarded to ET by EPD through email on 5 Aug 2022. Based on peripheral inspection, the muddy water was spotted.	At the time of EPD's inspection, a tiny gap was found at the bund around the sheet piles at B2-03. The gap was then sealed off so as to prevent muddy runoff from the sheet piling work. Concerning the photo taken at C2-02 by EPD, there shall be collection facilities to divert runoff to our wastewater treatment plant prior to discharge. Wastewater collection facilities including sufficient water pumps and flexible pipes are prepared during works. Meanwhile, below are some JV's regular preventive measures for water pollution control: 1. 18 nos. of wastewater treatment facilities are operating for different working areas including B2-03 and C2-02; 2. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge quality are complying with discharge standards as per discharge license, test results for concerned areas which were submitted to EPD.	Closed
COM-2022-08-08	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	8th August 2022	EPD received a complaint EPD ref: N07/RN/00016607-22 on 8 August 2022 and forwarded to ET through E-mail on 12/08/2022 and transferred to JV on the same day. The complaint content: "近電燈柱	**Noise** Refer to the Contractor's internal Permit-to-Work (PTW) System for restricted hours works, there was no works carried out at Pier C4-01 on any Sundays or public holidays which is nearest to the lamp pole EB1339 since 13 July 2022. The	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			EB1339 沿麻荏河一帶，有一大型建天橋工程，本來已經帶給鄉郊空氣和噪音污染，近來星期日和假期也開工，其機器均嘈雜和發出廢氣，貴署不應該容許工程在假日運作，嚴重影響跑步、踏單車和郊遊人士。請貴署注視。"	Sundays works at Pier C4-02 and C4-03 which are further away from the aforesaid lamp pole were performed in accordance with the CNP ref. GW-RN0551-22 (with validity from 11 July 2022 to 10 October 2022 granted by EPD on 30 June 2022). Therefore, the possible cause of the incident might be Sundays' works at Pier C4-02 and C4-03 on 31/07/2022 and Pier C4-02 on 07/08/2022 but the works at these areas were carried out in complying with the condition to the valid CNP. **Air** For the aforesaid Sundays' works for Pier C4-02, a generator has been used and emitted exhaust gas that might be the cause of the incident. There is a high volume sampler for regular air monitoring at around 30m distance from the generator. Up to now, there was no any exceedance reported from ET since commencement of the project. Based on the above findings, it might conclude that there was no any non-compliance issue. Nevertheless, the Contractor will conduct internal surprise check to the restricted hours works, if any, and give exhaust checking and fuel testing to ensure compliance of ULSD standard.	
COM-2022-08-16a	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	16th August 2022	EPD received a complaint (EPD ref: N07/RN/00017008-22) regarding water pollution in Fanling On Lok Tsuen near lamp post EB1339 on 16	To facilitate ET's investigation, this report is providing the following information: Since the works areas vicinity to lamp post EB1339 are Piers C4-01 and C4-02, the following	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			August 2022. EPD forwarded the case to ET through email on 17 August 2022. The complaint content: " 本人留意到近麻荏村的麻荏河有大量水泥水流入河，影響釣魚人士，查看下，是由上游 (近安樂村業和街利亨中心近電燈柱EB1339) 一帶的多個大型工程的水泥流入河。 另外，建築物和工地範圍和附近很多積水，很污糟，有大量工人的飯盒和垃圾，引起蚊患和衛生。"	investigation are focusing on these two works area locations. 1. Site activities at Piers C4-01 and C4-02; From thorough investigation, there are only minor defect rectification works for pier concrete surface at Pier no. C4-01 which is nearest to the lamp pole EB1339. Besides, there are only formwork/falsework dismantling works in the concerned area at Pier C4-02 which is further away from the aforesaid lamp pole. The whole area has been hard paved without any muddy surface. It is reasonably concluded that there are no construction activities in the concerned location which would generate large amount of muddy water. 2. Preventive measures for pollution control; 18 nos. of wastewater treatment facilities have been setup and operating for different working areas including works area of Pier Nos. C4-01 & C4-02 in the concerned period. 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				submitted to EPD. 4. Any possible source of muddy discharge to induce the captioned incident; Based on the above information and investigation findings, it is concluded that the source of muddy discharge was not related to the construction activities under Contract No. ND/2019/05. 5. Housekeeping; Receptacle with lid were provided on site. Cleaning have been performing in daily basis. Daily morning brief have been conducting to remind frontline staff about housekeeping. Although it is concluded that the complaint was not related to the Contract, the Contractor will keep daily monitoring on site condition and visual check discharge qualities against with standard solution of suspended solids (30 mg/L stipulated in licence condition) in order to get rid of any muddy discharge to the river. In addition, the Contractor will regularly conduct morning briefing and tool-box training to the frontline for keeping refresh their awareness on muddy water control.	
COM-2022-08-16b	Ma Sik Road and Sha Tau Kok Road near Lung Yeuk Tau (ND/2019/04)	16th August 2022	A complaint was received from EPD on 16 August 2022, "One Innovale construction site located in Ma Sik Road and Sha Tau Kok Road (Lung Yeuk Tau) that has been creating not only serious dust but also muddy	Investigation was conducted by contractor and reply as follow: "Despite the fact that the One Innovale construction site, where the complainant concerned about, is not part of ND/2019/04 project, we would ensure all vehicles has used the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			materials along the main road. During sunny days, dust flies up with busy traffic flow. This morning I even saw muds dropped down from the trucks made the road a muddy mesh pollution."	wheel washing facilities before leaving the site. Also, we have assigned two workers to conduct cleaning works to area adjacent with our vehicle egress. Moreover, we inspect every dump trucks on application of mechanical dump truck cover and keep photo records for compliance control. In addition, water bowser is arranged for road washing along Sha Tau Kok Road adjacent with our vehicle egress regularly."	
COM-2022-09-01	青山公路近燈柱EA2139 (ND/2019/01 , ND/2019/05)	1st September 2022	Complaint received by EPD on 1 Sep 2022 and forwarded to ET on 2 Sep 2022, “投訴土木工程署, 環保署監管不善, 大量黃泥水從地盤流入附近河流, 影響生態. 地點:青山公路近燈柱EA2139”.	Investigation was conducted by contractor and reply as follow: “A soil storage area was handed over from ND/2019/01 to ND/2019/05 on 18 August 2022. As this is a new area just possessed about 2 weeks before the date of this complaint, site preparation and setup such as wheel washing bay, temporary drainage system, wastewater treatment facility etc. were still undergoing. Some temporary measures were provided in place for preventing runoff into the adjacent public drainage system. During the site preparation and setup works, it was found that there is a pipework by others outside C5’s site which intermittently discharges muddy water into the surface drainage and suspected the complaint is caused by this. Contractor of C1 also provided certain information as follow: “Portion 1e (next to the said area) which is a temporary storage area with no major construction works will be carried out at such portion. The grey water pipe which is	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				belongs to other contractor nearby and muddy water discharge into the surface drainage was occasionally observed. We suspected the complaint is caused by this. Few water pipes were identified at the north sides near the interface of other contractor." From 5 Sep 2022, the weekly environmental inspection of C5 with Environmental Team (ET) will cover this area for regular identification of any deficiency in environmental management.	
COM-2022-09-29	Construction site nearby Dills Corner Garden Blk 5 (ND/2019/02)	29th September 2022	Complaint received by EPD on 29 Sep 2022 and forwarded to ET on 30 Sep 2022. Complaint detail is as follow: "石仔嶺花園第五座投訴工程噪音滋擾。我們不知承辦商工程，請幫忙跟進。謝謝！"	Joint inspection for the issue was conducted by AECOM, EPD and Contractor on 29 September 2022. Installation of sheet pile by Vibration Hammer was in progress during the inspection. Considering the founding during inspection and in order to quantify the noise nuisance made by related works, noise monitoring around Portion 2 had been conducted on 30 September, 3 and 5 October 2022(AM and PM periods) by Contractor with AECOM. Result shown that all noise levels are lower than the standard (75dB(A)). But the traffic condition has been considered as an influencing factor. Based on the findings, no noise exceedance is predicted to be found at NSRs. Several mitigation measures have been taken to alleviate the impact made. Noise screen has been erected along the fencing at Portion 2. Moreover, noise generation works including installation of sheet pile will be suspended at Portion 2 during 11:00-14:00 of working day. Environmental	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-10-06	Fanling On Lok Tsuen near lamp post EB1339" (ND/2019/05)	7th October 2022	Complaint received by EPD on 6 Oct 2022 and forwarded to ET on 7 Oct 2022. "近電燈柱 EB1339 近麻荏河，有一大型建天橋工程，星期日和假期幾十名工人正在開工，工作間大型鐵板聲炒耳，工人大聲叫囂，還開擴音器播歌.....使附近寧靜的安樂村、麻荏村、塘坑村和郊遊人士不安寧。"	Based on the Contractor's internal Permit-to-Work (PTW) System for restricted hours works, there was no works carried out at Pier C4-01 on recent Sundays or public holidays where is located near lamp pole EB1339 since September 2022. The holiday works at Pier C4-02 which are further away from the aforesaid lamp pole were carried out on 04/10/2022 in accordance with the CNP ref. GW-RN0551-22 granted by EPD. The works involved housekeeping and scaffold erection without any Powered Mechanic Equipment (PMEs). Therefore, the possible cause of the incident might be the work at Pier C4-02 on 04/10/2022. But the scaffold erection involved prescribed construction work in non-Designated Area was carried out with fully compliance with the valid CNP. Therefore, it might conclude that there was no any non-compliance issue. Nevertheless, the Contractor have conducted specific training to relevant site supervisors to remind workers to refrain from using loud speakers/playing loud music for works during restricted hours and to ensure keep the restricted hours works as quiet as possible, if any, and will install sound absorbing materials for the concerned works.	Closed
COM-2022-10-09	Portion 5 (ND/2019/02)	17th October 2022	Complaint received by EPD on 13 Oct 2022 and forwarded to ET on 17	As mentioned by EPD, the construction site is near Shek Sheung River. The complaint location	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			Oct 2022. The complainant alleged the captioned Project of "有關上水石上河有地盤直接排放污水落河事宜 2022 年 10 月 9 日 地盤直接排放污水落河"	may be Portion 5 of project site. Joint inspection for the issue was conducted by EPD, AECOM and Contractor on 14 October 2022. According to the record of construction site, no work was arranged on 9 Oct 2022. Subject to the comments made by EPD staff during the site inspection, several mitigation measures have been taken to enhance the water pollution control performance. Contractor had arranged a wastewater treatment tank to replace the existing tank on site to improve the treatment performance and one more sedimentation tank is introduced to increase the detention time. Moreover, all hoses related to the wastewater transportation have been removed from the slope near Shek Sheung River. Also, water discharge has been suspended for the facilities enhancement. Contractor enhanced the routine checking and maintenance of wastewater treatment facilities including cleaning and replacing of tanks. Posters of mitigating adverse environmental impacts had been fixed at Portion 5 to increase workers' environmental awareness. Training has been provided for site staff. Based on the findings of investigation, CW-KL JV enhanced water pollution control to reduce nuisance to the environment. Environmental promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-10-18	安樂村新界蔬	28th October 2022	EPD received a complaint (EPD ref: N07/RN/00022664-22) regarding	Since the works areas adjacent to North District Temporary Wholesale Market (北區臨時農	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
	菜批發市場旁 (ND/2019/05)		water pollution in "construction works of the Kwu Tung North new development area of NENT Project" on 18 October 2022 and forwarded to ET through E-mail on 28 October 2022 and ET transferred to JV on the same day. The complaint alleged: "投訴安樂村新界蔬菜批發市場旁有人私自破壞污水渠並把污水接駁至麻笏非法排放污水，投訴人表示親眼見到涉事人員鑿爛污水渠，具體位置會後續來電補充附近的燈柱號碼，又表示部門跟進時如需要具體位置亦可直接聯絡查詢人。"	產品批發市場) are Portion I and Portion II, the following investigation are focusing on these two works area locations. 1. Site activities at Portion I and Portion II; In response to the complaint, "sewerage pipe being damaged and connected to Ma Wat River" is not observed on-site. There were substructure construction works which did not generate wastewater in Portion I and II. 2. Preventive measures for pollution control; 2 nos. of wastewater treatment facilities have been setup and operating for works area in portion I & Portion II in the concerned period. 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were submitted to EPD. 4. Any possible source of muddy discharge to induce the captioned incident; No wastewater generating activities were conducted at Portion I and II on 18 October 2022. Wastewater (if any) from all construction activities is properly collected, treated and	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				monitored. Based on the above findings, it is concluded that the complaint was not related to the Contract. Contractor will continue daily monitoring on our site condition and visual check discharge qualities against with standard solution of suspended solids (30 mg/L stipulated in licence condition) in order to get rid of any water pollution to the river. In addition, Contractor will regularly conduct morning briefing and tool-box training to the frontline for keeping refresh their awareness on water pollution control.	
COM-2022-10-31	near Po Lau Road, Kwu Tung (ND/2019/01)	31st October 2022	EPD received a complaint with ref: N07/RN/00024008-22 on 31 October 2022 and referred the complaint to ET. Description: A complaint referred from EPD regarding dust impact near Po Lau Road, Kwu Tung. The complaint alleged: "古洞開發區波樓路新大樓附近有路面平整工程, 早上九時多有儲泥及卸泥活動, 吹起沙塵, 影響駕駛安全"	The suspected complaint location was Portion 1b. According to the records of Hong Kong Observatory on 31 October 2022, typhoon signal number 1 was hoisted and the local winds were generally strong. 1. Weekly environmental walk and EPD ad-hoc inspection was carried out on 01 November 2022 morning, it was reminded that the frequency of watering shall be increased under strong wind condition. 2. Two water browsers were deployed for regularly watering of main haul road. 3. Mist cannon was provided on site for dust suppression. 4. Manual water spraying was provided to maintain site condition in a damp condition. 5. Once the level of stockpile reached the formation level, hydroseeding was applied.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				6. Dust monitoring was carried out at KTN-DMS4(B) on 21 Oct 2022 and 27 Oct 2022, no exceedance was recorded. 7. Cover the slope surface with impervious sheeting. 8. Addition water browser with capacity 20,000L was deployed on site on 01 November 2022. 9. Hydroseeding to exposed soil once the formation level reached. 10. Keep closely monitoring on the concerned area.	
COM-2022-11-10	Construction site near Shek Wu San Tsuen North (ND/2019/04)	10th November 2022	EPD received a complaint with ref: N07/ RN/00025077-22 on 10 November 2022 and referred the complaint to ET and IEC on 2 December 2022. The complaint alleged: "White smoke was emitted from an operating crane (blue/white color) in the construction site of Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section nearby Shek Wu San Tsuen North."	There was a crane in blue/white color working in the area nearby Shek Wu San Tsuen. According to Contractor's record, the crane has stopped works since 10 Nov 2022 afternoon for the preparation of removal from site. No white or dark smoke emission has been observed on 10 Nov 2022 morning. The crane was removed on 12 Nov 2022. Photo record shown that the blue/white crane was totally removed on 14 Nov 2022. Based on the findings of investigation, no emission of white smoke was observed on the date of complaint. The Contractor would keep monitoring the plant whether there are dark smoke emission and the operation would stop at once if dark smoke emission has been observed, by comparing with the Ringelmann Chart.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2022-12-07	Construction site near Lamp post VD6513 (ND/2019/05)	7th December 2022	EPD received a complaint with ref.: N07/RN/00028143-22 on 7 Dec 2022 and referred the complaint to ET and IEC on 14 Dec 2022. The complaint alleged: "本人住北區，習慣晨運，目睹近來北區太多基建工程，已經很多污染，環保署有沒有積極監察? 本人於星期日(27.12.2022)，行經粉嶺龍山近塘坑村附近，近電燈柱VD6513，興建中的橋跨行人路，高空掉下釘子在行人路上，掉下發泡膠並隨風吹散各地和麻荏河流中，請環保署查看是否有物質? 做成污染。附上圖。另外，水馬大部分欠蓋存積水。 高空掉建築物很危險"	The investigation results are as follows: 1. The works area vicinity to lamp post VD6513 is Piers C4-03. There are viaduct construction works above the concerned lamp post. 2. Expanding foam and tiny metal nails found over there were both non-hazardous and non-harmful substance. It is suspected that they were some remaining left behind from previous foundation construction works or by the public due to there is a public area currently. Although the material might be not from the current works, to maintain good neighborhood relationship, the Contractor have promptly followed up as follow: A. Cleaned up the expanding foam and metal nails, B. Tightened and securely fixed the safety net, C. Sealed up those water-filled barriers without lids and their damaged parts. JV conducted joint site inspection with EPD inspectors at the concerned area on 13 Dec 2022. EPD satisfied with the above follow-up actions taken for the complaint.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-01-12	Sheung Yue River (ND/2019/01) (ND/2019/02)	12th January 2023	As reported by DSD, DSD had a joint site inspection, and observed large amount of muddy runoff was outflowing from the construction sites at Kwu Tung North into Sheung Yue River, which divided into 3 main sources of muddy runoff.	Due to the complaint location, there will be two contractors conducted the investigation as below. From Contract Number (ND/2019/01): Investigation was conducted by contractor and reply as follow: Investigation Findings: 1. The suspected complaint location was between Portion 7 and the outlet of Sheung Yue River. 2. According to the site records, activities include trimming and compaction of formation level and installation of lamp post were conducted. 3. EPD staff carried out investigation on 16 January 2023 and two water samples were collected. 4. An immediate checking by supplier was arranged to check the efficiency of the wastewater treatment plant. 5. During the checking, it was observed that the chemical dosing system was found clogged due to undissolved chemical, and it has been repaired. 6. The chemical was found lumping due to recent high relative humidity. 7. According to the records of Hong Kong Observatory on 10-15 January 2023, the relative humidity was reached to at least 94%. 8. An inspection was carried out with ET, it was observed that a covered u-channel was found damage and mud was accumulated at the bottom of the channel. Wastewater discharged from wastewater treatment plant may mixed with the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				accumulated mud and cause the wastewater become turbid / muddy. 9. Visual comparison was conducted with ET on17 January 2023, the colour of the glass bottle collected from wastewater treatment plant looks clear when compare with the standard solution. 10. During the ad-hoc inspection on 27 January 2023, inadequate treated wastewater discharge from nearby private construction site was observed. Mitigation Measures and Follow-Up Actions: 1. Properly store the chemical with covered tarpaulin to prevent lumping; 2. A refresher training for WWTP operation and maintenance by supplier was provided to foreman and designated workers; 3. Repair the damaged u-channel; 4. Arrange to clear the accumulated sludge in the channel; and 5. Keep closely monitoring such as daily visual inspection on the WWTP and clear the accumulated sludge in the channel. <u>From Contract Number (ND/2019/02):</u> Investigation was conducted by contractor and reply as follow: As mentioned by EPD and DSD, the finding was happened at the upstream of Sheung Yue River and the project site falls along the downstream of	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				complaint location. 1. Joint inspection for the issue was conducted by EPD and DSD on 11 January 2023. 2. According to the record of construction site, no work was arranged on 12 January 2023 at Portion 1 along Castle Peak Road. Formwork, steel work and welding were carried out along Sheung Yue River. Site inspection and discharge sampling by contractor itself was conducted 12 January 2023 along all of the functioning wastewater treatment facilities along Sheung Yue River and no muddy discharge was found. The condition of outfall along rivers were also checked. 3. According to investigation by contractor 12 Jan 2023, no muddy discharge from our project was observed. Preventative measures have been provided to further reduce the risk of illegal discharge. Silt Curtain has been installed along outfall and workfront with potential risk of polluted runoff has been installed sheet pile and canvas was provided to intercept runoff due to rainwater. 4. Checking and maintenance of wastewater treatment facilities have been carried out by supplier before the joint inspection by EPD and DSD. 5. Training on proper wastewater treatment and discharge has been provided for site staff to raise the awareness of site staff at all levels.Conclusion: Based on the findings of investigation, CW-KL	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				JV enhanced water pollution control to reduce nuisance to the environment. Environmental promotion is given to site staff and workers to increase their awareness of environmental protection.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-02-03	a construction site near On Lok Garden at On Fuk Street, North District. (ND/2019/05)	3rd February 2023	EPD received a complaint with ref.: N07/RN/0002434-23 on 29 Jan 2023. Complaint detail: Suspect some closeby construction sites flow the waste water into the river that potentially kill the fish inside the river.	The investigation result as follows: Since the concerned area near On Lok Garden is Portion V, the following investigation is focusing on portion V and its nearby works area (portion VI & VIII) from upper stream of Ma Wat River. 1. Site activities at concerned areas; There were superstructure construction works (i.e., construction of pier and portal beam and segment) which did not generate wastewater in Portion V and its nearby works area from upper stream of Ma Wat River. 2. Preventive measures for pollution control; 19 sets of wastewater treatment facilities have been setup and operating for all works area for Contract No. 5 which covering all of the concerned works areas, 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were submitted to EPD.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				4. Any possible source of muddy discharge to induce the captioned incident; No wastewater generating activities were conducted at Portion V in concerned period between 06:48 to 06:53 on 19 January 2023. Wastewater (if any) from all our construction activities is properly collected, treated and monitored. During joint inspection with EPD inspectors and the Supervisor as well as the contractor on 31 January 2023, off site wastewater sources from other discharge pipes at upper stream of Ma Wat River are observed which are highly potential contributing to the incident.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-02-08	Construction site near Dills Corner Garden (ND/2019/01)	8th February 2023	EPD received a complaint with ref.: N07/RN/00003315-23 on 6 Feb 2023. Complaint detail: 投訴波樓路石仔嶺花園裏面的打樁工程噪音	The investigation result as follows: 1. The suspected complaint location was Dills Corner Garden where few contracts which included ND/2019/01, ND/2019/02, ND/2019/05 and private construction site were carried out construction works nearby. 2. There was no foundation work carried out at or near Drills Corner Garden under ND/2019/01. 3. The nearest site area Portion 1e was a temporary storage area for construction material where no construction works carried out. 4. However, piling work was identified next to the Drills Corner Garden which was not belonged to ND/2019/01. 5. According to the EPD records, there were two piling permits granted to other contactors near the Drills Corner Garden which were not under ND/2019/01. 6. As there was no foundation work carried out under ND/2019/01, no mitigation measures or follow-up actions were proposed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-04-03a	The Soil Stockpiling area at Kwu Tung near L/P: GD5847 (ND/2019/05)	3rd April 2023	EPD received a complaint with ref.: N07/RN/00008714-23 on 3 Apr 2023. Complaint detail: 投訴上水古洞波樓路石仔嶺花園隔離地盤的泥車出馬路時, 帶泥水往馬路	The investigation result as follows: 1. There are many construction sites in the concerned area adjacent to lamp post GD5847 using the access road. Thus, concerned dump trucks and their impacts may not be relevant to JV. 2. There are stockpiling works for the temporary storage, internal transferring and sorting of inert materials in the concerned area. 3. To prevent any potential impacts from the works, sufficient resources of manpower and facilities are allocated for the implementation of mitigation measures including wheel washing and water pollution control. 4. Resources allocation is listed as below, (a) Four full-time workers and one supervisory staff (b) Wheel washing bay supplemented with water pipes (c) Proper temporary drainage system (cutoff drain, water pumps, sump pits, bunding, etc.,) (d) One set of wastewater treatment facilities (e) Fully hard paved haul road Based on the above findings, it is concluded that the complaint was not related to the Contract. JV will continue allocating sufficient resources and daily monitoring of their site conditions for proper pollution control.	Closed
COM-2023-04-03b			EPD received a complaint with ref.: N07/RN/00008728-23 on 3 Apr 2023. Complaint detail: 投訴古洞發展區地盤的泥車頭，出入時沒有清洗乾淨，將泥漿帶出馬路，他今天大約14:00，發現有多部泥頭車都此問題，泥漿由青山公路古洞段，一直帶到往元朗的高速公路，現要求跟進及回覆		

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-08-09	Construction site next to Tong Hang near L/P No. VD6513 (ND/2019/05)	9th August 2023	EPD received a complaint with ref.: N07/RN/00018620-23 on 4 Aug 2023. Complaint detail: "本人於今個星期日(30.07.2023), 再次行經粉嶺龍山近塘坑村附近, 近電燈柱 VD6513 附近, 發覺強烈油積味, 相信有機器流油, 同時亦發覺油積連水流至行人路, 使路濕滑, 一部份油流入河流"	The investigation result as follows: **1. Site activities at Piers C4-03** The works area vicinity to lamp post VD6513 is Piers C4-03. Superstructure works for viaduct construction were conducted above the concerned lamp post. It was precast segment erection works (only involve lifting, transporting and tendoning) and no operation of heavy machinery/plants was conducted at ground level during the complaint period. No wastewater/chemicals were generated in the surrounding works. **2. Preventive measures for wastewater or chemical leakage/overflowing;** There were plenty of preventive measures for wastewater or chemical leakage/overflowing from site listing as below: - All ground area were totally hard paved - Edges of all site boundaries were entirely enclosed and embanked - All openings of segment structures were fully closed - Chemical waste storage cabinet was provided in the concerned area for storage of chemical waste Based on the above findings, it is concluded that the complaint was not related to the Contract. JV will continue daily monitoring on our site condition and the nearby drainage and river condition to prevent any water pollution. In addition, JV will regularly conduct morning briefing	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				and tool-box training to the frontline for keeping refresh their awareness on water pollution control.	
COM-2023-08-25	Ma Tso Lung Stream, near L/P No. VD7574 (ND/2019/01)	25th August 2023	EPD received a complaint with ref.: N07/RN/00020185-23 on 22 Aug 2023. Complaint detail: "I am writing to express my deep concerns about the water pollution in Ma Tso Lung Stream, which is a result of the illegal dumping of construction waste. Following heavy rain, the Advance Site Formation and Engineering Infrastructure Works at Kwu Tung North and Fanling North New Development Areas have significantly impacted the upstream of the Ma Tso Lung Stream, specifically at the location marked by government lamppost VD7574. For further clarity on the location, you can refer to: (https://www.landsd.gov.hk/doc/en/nda/ktnnda/D_KTN_1A_BW_SD_compress_1.pdf) Due to the vast amounts of construction waste, the stream's drainage has been severely obstructed. This was particularly evident after last week's Special Announcement on Flooding in the Northern New Territories. The	The investigation result as follows: - The suspected complaint location was found at Ma Tso Lung Stream, about 200 meters outside the site boundary of Kwu Tung North New Development Area. - BKREJV carried out investigation accompanied by AECOM RSS on 31 August 2023, no construction activity was observed nearby. - During the investigation, no illegal dumping was identified upstream. The water of the stream looks clear, therefore, pollution downstream (complaint location) generated from the project is unlikely. The C&D material on the stream believed accumulated by nature. - No accumulation of C&D waste along the upstream of Ma Tso Lung Stream was observed during the investigation. The stream is free from blockage. - By comparing the photos from complainant provided and the photos taken on 31 August 2023, there are no major differences observed. - As the mentioned location which is outside the site	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			stream's blockage from the waste has prevented efficient water drainage, posing a serious threat to the lives of the residents living by its banks. It's noteworthy that the KWU TUNG NORTH OUTLINE DEVELOPMENT PLAN No. D/KTN/1 (https://www.pland.gov.hk/pland_en/info_serv/tp_plan/adopted/ES/D_KTN_1_en.pdf) had previously emphasized the importance of the Ma Tso Lung Stream. It serves as a crucial corridor for numerous fauna of conservation importance, including the Three-banded Box Terrapin. The stream, along with its surrounding riparian vegetation, has been designated under the "Green Belt" zoning for protection in the Outline Development Plan (ODP). The recent infrastructural developments have gravely affected this ecosystem and the habitat of the rare Three-banded Box Terrapin. In addition to the aforementioned concerns, the engineering works have significantly reduced surface water flow. As a result, the Ma Tso Lung Stream faces not only pollution but also the alarming threat of becoming a dry streambed. This drastically impacts the ecological balance and endangers the	boundary, no follow up action is proposed. Based on the above findings, it is concluded that the accumulated C&D material on the stream likely accumulated by nature instead of illegal dumping by project. It is concluded that the complaint is not project related. However, BKREJV are responsible to monitor the condition alongside the boundary of construction site regularly.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			myriad of biodiversity dependent on this vital water source. ... Enclosed are comparative photos from July to August 2022 juxtaposed with the current state in August 2023, capturing the stark degradation of the stream over a year."		
COM-2023-09-04	Construction site near the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	4th September 2023, 7th September 2023	EPD received a complaint with ref: N07/RN/00021148-23 on 4 Sep 2023. Complaint detail: "沙頭角公路與馬適路交界的地盤排放泥水到附近河道造成污染" Supplementary detail received by EPD with the same ref on 7 Sep 2023. Complaint detail: "在 7/9/2023 下午,該地盤再次排出大量黃泥水"	The investigation result as follows: For the complaint received on 4 September 2023, the cause of the silty water entering Ma Wat River was mainly due to the malfunctioning of wetsep, which was damaged due to electric short during the adverse weather, no.1, no.3, no.8, no.9 and no.10 and 5 hours of amber warning signal, caused by Super typhoon Saola on 1 and 2 September 2023. The wetsep was repaired immediately after Saola left and resumed the function on 4 September 2023 afternoon and no more silty water was observed entering Ma Wat River. The water quality observed on 5 September 2023 was normal and complied with the legal requirement of discharge licence. For 7 September 2023, the major cause of the incident was the accumulated soil at the existing outfall overflow to the river due to the continuous rainy weather, which was not discharge from the construction site.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-09-13	Open water channel within the project site of KTN NDA phase 1 (ND/2019/01)	4th September 2023, 21st September 2023	EPD spotted overflow of muddy water from an open water channel within the project site of ND/2019/01 to the nearby nullah at the site boundary which would eventually discharge into Sheung Yue River. During the EPD follow-up site inspection on 13 Sep 2023, similar overflow of muddy water still observed. On 21 Sep 2023, a joint site inspection was held.	The investigation result as follows: According to the record of Hong Kong Observatory, Super Typhoon SAOLA signal 10 was hoisted from 1 September 2023 to 2 September 2023. Amber Rainstorm Warning Signal was recorded from 19:45 of 1 September 2023 to 01:00 of 2 September 2023. Special Announcement on Flooding in the Northern New Territories was hoisted from 22:05 of 1 September 2023 to 04:30 of 2 September 2023 and the total rainfall from 1 to 2 September 2023 is nearly 180mm. It was observed that the capacity of the existing 2 no. of wastewater treatment system (AquaSed) provided for the treatment of the permanent rectangular channel (RC3) was insufficient. The permanent rectangular channel (RC3) which has been serving as temporary buffer zone for temporary storage of collected surface runoff which included wastewater generated from other interfacing contractors. It was observed that muddy water overflowed from the outlet of RC3 to the concerned discharge point. It was noted that various nearby interfacing contractors discharged their construction wastewater to the same concerned discharge point via RC3. Traces of muddy site runoff and yellowish sediments	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				were spotted on the bare surface outside RC3. Traces of yellowish sediment was observed in water channel out of the project site just next to RC2. The capacity of pumping system at RC2 seems insufficient. The storage pond capacity at Northern Portion seems inadequate to collect surface runoff generated from stockpiles area. The U-channel near Ma Tso Lung Road was filled with soil thus reduce the design capacity of water collection. Follow-up actions: - One additional water pump (increased from 2 to 3 in total) was deployed at RC3 and one water pump (increased from 1 to 2 in total) was deployed at RC2 respectively. - The open stockpile at northern portion was properly treated by hydroseeding. - Enlarge the depth of sump pit at Northern Portion from 1m to 2m. Storage pond was properly maintained by desilting regularly. - The blocked U-channel and cut-off drain near Ma Tso Lung Road was desilted generation of muddy surface runoff. - Sand bag bund with geotextile was placed properly and the bottom of the hoarding was sealed along the site boundary near Ma Tso Lung Road to prevent muddy water washed out to the	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				lower elevated of the site to public areas - Regularly desilting of rectangular channel (RC2 and RC3 to maintain the capacity. - Demarcate the discharge pipes by labelling which was belongs to BKREJV. - Temporary drainage management plan at portion 1c was enclosed for reference.	
COM-2023-11-08A	Construction site near Tong Hang (ND/2019/05)	8th November 2023	EPD received a complaint with ref: N07/RN/00026110-23 on 2 Nov 2023. Complaint detail: "投訴人於 2023/11/01 23:18:56 留言投訴粉嶺塘坑村對出的地盤最近晚上均會搬運大型物料入地盤，但搬運過程發出巨大噪音，要求環保署跟進。因投訴人沒有留聯絡資料，CSC 未能了解更多詳請。"	The investigation result as follows: The location of the complaint likely to be the storage yard which is being used partly by a business operator (CTC-container storage) and segment storage for this contract. According to our Permit-to-Work (PTW) application records, there was no physical works scheduled at the storage yard during the complaint period. Based on the above findings, it is concluded that the complaint was not related to the works. In case of works during restricted hours, the contractor will apply a Construction Noise Permit, works during restricted hours will only be carried out when a valid CNP is in force. In order to minimise the noise impact to the noise sensitive receiver, temporary noise barrier was erected along hoarding facing the noise sensitive receiver. The	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				installation of temporary noise barrier was completed on 13 November 2023.	
COM-2023-11-08B	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	8th November 2023	EPD received a complaint with ref: N07/RN/00025564-23 on 26 Oct 2023. Complaint detail: "本人再次見到粉嶺馬適路-沙頭角公路地盤晚上 9 點後仍然工作 地盤內有工程車和多名工人鋪木地板,其間有人多次使用切割機鋸斷木板,造成巨大噪音,而自過往多月本人多次投訴後,該地盤仍然沒有任何改善"	The investigation results are as follows: Having reviewed on internal record and permit-to-work system, no work activities were scheduled and taken beyond 7 pm from 11 September to 31 October 2023. The supplementary information including statements from relevant representatives, the foreman in charge of the concerned area, representative of the sub-contractor from Hung Wing Steel Engineering Limited conducting construction works of CLC; the site diaries recorded the scheduled works and working period during weekdays within the aforesaid period; The work permits issued within the aforesaid period; and the valid CNP. The Contractor claimed that they had a comprehensive noise control system for environmental protection in place which has been effective so far. The works in restricted hours are well organized and under control with the work permit system. Adequate mitigation measures are also provided for any work in restricted hours. In conclusion, according to the above, all scheduled works were completed by 19:00 from 11 September to 31 October 2023 according to their records. All major works were substantially completed before the soft opening of the Community Liaison Centre on 26	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				October 2023, except the remaining construction of the fire service tank and the associated water pipes and fittings installation are in progress during normal working hours, for example, no activities during restricted hours, to be completed before FSI inspection tentatively scheduled on 20 December 2023. No potential noise impact during restricted hours would occur.	
COM-2024-01-05A	Construction site near On Lok Garden (ND/2019/05)	5th January 2024	EPD received a complaint with ref: N07/RN/00000530-24 on 5 Jan 2024. Complaint detail: "投訴人指粉嶺安樂花園附近 AECOM 地盤, 在 12 月 31 日公眾假期開工, 她去地盤問, 不見有許可證貼出, 她問職員, 職員再問主管, 但仍未能出示許可證, 而下星期日又開工, 現要求環保署跟進及回覆及查証是否真有許可證.。"	The investigation result as follows: Referring to the Permit-to-Work (PTW) records, JV has issued a permit-to-work ref. PTW-20231201-1 V0, see Appendix I, to their frontline to work in accordance with a valid CNP ref. GW-RN0977-23 Zones XIV-XV for lifting works on 31 Dec 2023. Copies of the CNP have been displayed at site entrances to the public and there is one near On Lok Garden since it is with effect from 1 Oct 2023. For every new CNP copy display, JV will inform all workers through WhatsApp by photos and specific training/morning briefing. JV has also been presenting the licence boxes location which contains CNP copies at every monthly Site Environmental Committee (SEC) meeting. JV had a joint inspection with EPD inspectors on 10 Jan 2024, found that JV was displaying valid and relevant CNPs hardcopy and softcopy by QR code at site entrances. The worker stationing at the site entrance nearest On Lok Garden could tell the CNP	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				display location also. EPD had no adverse comment to JV.	
COM-2024-01-05B	Construction site near One Innovale and Power Substation at Ma Sik Road (ND/2019/04)	5th January 2024	EPD received a complaint with ref: N07/RN/459-24 on 5 Jan 2024. Complaint detail: "投訴 One Innovale 旁邊電力公司由 12 月 20 日起除公眾假期外每日由早上 8 時到傍晚 6 時發出高頻噪音，十分滋擾，要求環保署盡快跟進及回覆。"	The investigation result as follows: The high frequency sound should be the warning signal from the safety sensor installed on the moving plants recently, for alerting the workers and operators of the plants aware of their surroundings to avoid any accident, starting from 18 December 2023. This safety measure is implemented due to the recent fatal accident happened in other construction site. The sensor would only be triggered when objects are detected within the detection zone and high frequency warning signal would be generated to alert the workers and operators that someone or something has been entered the moving zone. The sensors are only turned on during the operation of the plants and turned off after the working hours. The foreman would check the status of the sensors to ensure they are turned off to avoid false alarm out of working hours. The area if planned to be a danger zone would be cleared as much as possible without objects or materials, only essential manpower is allowed to enter the danger to assist the operation of excavation works and lifting works. The other workers are not allowed to	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				enter the danger zone at any circumstance. Notices has been sent to residents, including Green Code, Belair Monte, One Innovale and the Lung Yeuk Tau Representative, explaining the purpose of installing the safety sensor and the necessity of the warning signal to the workers on site.	
COM-2024-02-02	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	2nd February 2024	EPD received a complaint with ref: N07/RN/3492-24 on 2 Feb 2024. Complaint detail: "2024 年 1 月 31 日晚上 到 2024 年 2 月 1 日清晨，該地盤發出大量及持續的聲音，好似柴油發電機運作產生的聲音，非常擾民，完全無法忍受。要求政府相關部門跟進處理。"	The investigation result as follows: The Contractor claimed that they have have no PMEs operated after 19:00 on 31 January 2024 to 07:00 on 2 February 2024. No work permit has been issued for works in the mentioned periods, hence, no works have been conducted during restricted hour. They claimed that they are using electric supply from CLP and no generators are required at this area of the site (Pak Shing) which is near One Innovale, and photos were provided showing there are no generators at the area around. Foremen checks the site condition including the plants and other PMEs after operation and they ensure turning off every PMEs and plants on site before leaving. In conclusion, according to the above findings, the electric supply is provided by CLP and generators are not required. The photo record showing that no generators are placed on site. No PMEs and plants were left operating during the mentioned period.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				It is believed that the noise in the video was not generated from the PMEs or plants on their site. No works and operation of PMEs and plants at the site area and they were ensured to be turned off after the operation before 19:00.	
COM-2024-03-04	Construction site near Ma Sik Road (ND/2019/04)	4th March 2024	EPD received a complaint with ref: N07/RN/6289-24 on 3 Mar 2024. Complaint detail: "本人 XXX 居住於粉嶺馬適路 1 號逸峯... 對面地盤（即將興建之批發市場地盤位置附近），近一個月內由早上九時至下午六時，不斷有咝咝咝之聲響，疑似地盤內信號員所發出的信號聲響，十分滋擾，家中有老人及幼兒，實在不勝其擾，由於致電相關地盤承辦商電話均無人接聽，望貴署能跟進地盤噪音滋擾。"	The investigation result as follows: The Contractor claimed that the "bibibi" sound should be the warning signal from the safety sensor from an excavator and a crane, which are closest Green Code. The safety sensors were installed on the moving plants for alerting the workers and operators of the plants aware of their surroundings to avoid any accident. This safety measure is implemented due to the recent fatal accident happened in other construction site. The safety sensor would only be operated when the plants are in use and turned off after the working hours. The sensor would only be triggered when objects are detected within the detection zone and high frequency warning signal would be generated to alert the workers and operators that someone or something has been entered the moving zone. The Contractor claimed that they have checked the hotline record, and they have answered all the phone in enquiry and will call back those missed call but no relative complaint for this case. Notice has been sent to residents, including Green Code, Belair Monte, One Innovale and the Lung Yeuk Tau Representative, explaining the purpose of installing the safety sensor	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				and the necessity of the warning signal to the workers on site. The Contractor have implemented measure to reduce the sound pressure level of the warning signal by screening with adhesive paper. The sound pressure level has been reduced by about 10 dB(A) by measurement and doesn't affect the function for alerting the people and the operator.	
COM-2024-03-19	Construction site near Ma Sik Road (ND/2019/04)	19th March 2024	EPD received a complaint with ref: N07/RN/7600-24 on 17 Mar 2024. Complaint detail: "在沙頭角公路龍躍頭段，現場有兩個大型施工地盤。 一處為住宅逸峰對面，馬適路住宅 one innovalue 旁邊。一處為公路對面，安居街。 每逢車輛經過，空氣中肉眼可見塵埃，路人經過衣服上滿佈一點點黑色的塵，想問問該兩個地盤有否做做防止塵埃揚起的預防措施。因為不見任何帆布，只有水馬圍欄。"	The investigation result as follows: The Contractor claimed that various measures have been applied regularly and properly to reduce dust from spreading outside the construction site. The effectiveness would also be reviewed by foremen on site. The road also affected by the dirt from the other vehicles travelling on Ma Sik Road and Sha Tau Kok Road. The dirt found on those roads is black in colour and powdery. The Contractor claimed that those black dirt was only found on the water barrier adjacent to both roads but not the other site boundary. The dirt in black and powdery might come from other vehicles travelling on both roads but not from the construction site. The Contractor will keep ensuring the measures for dust suppression to be effective and keep monitoring the condition of the site of enhancement of measures is needed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2024-04-09	Construction site near Ma Sik Road (ND/2019/04)	9th April 2024	EPD received a complaint with ref: N07/RN/9715-24 on 8 April 2024. Complaint detail: "I am writing to express my deep concern and dissatisfaction regarding the ongoing construction activities near Fanling Ma Sik Rd, specifically at 8 Ma Sik Rd. I am a resident in close proximity to the construction site, and I have been experiencing significant issues related to dust and sand pollution caused by the construction activities. Over the past few weeks, I have noticed a consistent and substantial amount of dust and sand accumulating on my balcony and surrounding areas. Despite the construction work being a necessary part of development, it is crucial that appropriate measures are implemented to minimize the negative impact on the surrounding environment and the health and well-being of nearby residents. The primary issue I would like to address is the apparent lack of effective dust and sand pollution control measures at the construction site. It is evident that the construction activities are generating significant amounts of dust and sand, which are subsequently being dispersed into the surrounding residential areas,	The investigation result as follows: The Contractor claimed that various measures have been applied regularly to reduce dust from spreading at the construction site, especially the area adjacent to One Innovale. Excavation and digging were not active recently, the major construction works were rebar fixing, formwork erection and lifting of materials like rebar and formwork, which are considered not dusty construction works. Water wagon has been applied for water spraying on haul road and depressed road; stockpile has been hydroseeded the surface for dust suppression; most of the areas are paved and compacted that dust dispersal is under control; the stockpile temporary stored were being transferred to other work front for backfilling. Contractor will keep ensuring the measures for dust suppression to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including water spraying, wheel washing, covering stockpile with tarpaulin sheet and cleaning whenever necessary.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			including my balcony. This not only creates a nuisance but also poses potential health risks, particularly for individuals with respiratory conditions. I kindly request that immediate action be taken by the relevant authorities or responsible parties to address this matter. It is imperative that the construction site adheres to stringent pollution control guidelines and implements appropriate measures to minimize the dispersion of dust and sand. Some possible measures that could be implemented include regular sprinkling of water during digging or excavation activities, installation of dust barriers, and effective covering of loose materials. I urge you to investigate this issue promptly and ensure that the construction site operators are held accountable for their responsibilities in controlling and mitigating dust and sand pollution. Additionally, I would appreciate receiving regular updates on the progress of the measures taken to rectify this situation. I trust that you will treat this matter with the utmost seriousness and urgency it deserves. The health and well-being of the residents in the vicinity should be a		

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			priority, and I sincerely hope that immediate action will be taken to address this ongoing problem."		
COM-2024-04-17	Construction site near Ma Sik Road (ND/2019/04)	17th April 2024	EPD received a complaint with ref: N07/RN/10275-24 on 14 April 2024. Complaint detail: "在 2024 年 4 月 13 日下午，在經過梧桐河河邊,發現 CEDD(中國鐵建)的建築公司將地盤污水排進梧桐河,危害河水及海洋生物,十分過分!"	The investigation result as follows: The Contractor claimed that various measures, bunds and paved slope, have been applied to prevent silty runoff and wastewater is treated before discharging. It is believed that the silty water observed by the complainant was not related to the project. A potential source has been found during investigation at the junction of Kan Lung Tsuen and Ma Wat River. It may be the source of the observation of the complainant. The Contractor will keep ensuring the measures for water quality to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including setting up bunds, adding wastewater treatment plants and paving the slope or placing silt curtain whenever necessary.	Closed
COM-2024-04-26	Construction site near Ma Sik Road (ND/2019/04)	26th April 2024	EPD received a complaint with ref: N07/RN/11478-24 on 25 April 2024. Complaint detail: "粉嶺 One Innovale 旁邊的地盤非法將大量泥水排放到河道 兩張相片分別為 23/4 傍晚和 24/4	The investigation result as follows: The Contractor claimed that various measures, bunds and paved slope, have been applied to prevent silty runoff and wastewater is treated before discharging. According to the photo provided by the complainant, the wastewater treatment facility was functioning well	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			清晨拍攝, 地盤已通宵排放,造成嚴重污染,請立即採取行動保護環境,阻止違法行為".	and the water quality for the discharge at that time was not silty. It is believed that the silty water observed by the complainant was not related to the project. The potential source for the silty water observed by the complainant may be due to the residue of silt brought along from upstream after heavy rain. The Contractor will keep ensuring the measures for water quality to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including setting up bunds, adding wastewater treatment plants and paving the slope or placing silt curtain whenever necessary.	
COM-2024-05-06	Construction site near Tong Hang Village (ND/2019/05)	6th May 2024	EPD received a complaint with ref: N07/RN/12113-24 on 2 May 2024. Complaint detail: "保華 CEDD 地盤污水流出 near 塘坑村, North District, NT"	The investigation result as follows: Major site works conducted at site area near Pier C4-04 was bridge works, i.e. parapet installation and bridge segment transportation, on bridge deck. Due to the site progress, there was no earthworks conducted on the ground surface at the moment. The ground surface is mainly serving the purpose of precast segment storage, site access and site accommodation. The entire ground surface of the works area had been hard paved since 2021 in accordance with mitigation measure recommended in the Approved EM&A Manual. Rainwater would be drained by gravitational fall along the ground surface by level difference. The entire ground surface of the works area was formed with inclination from highest level at the northern part	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				to lowest at the site access connecting to the Tong Hang Village Road. After on-site communication with the complainant on 02 May 2024, the following additional measures were provided: 1. An additional temporary drainage channel has been installed. 2. A 200mm concrete bund has been constructed at the area adjacent to the resident as additional protection against potential flooding. The complainant was invited to review the abovementioned extra measures on 06 May 2024 on-site.	
COM-2024-06-04	Construction site near On Kui Street (ND/2019/04)	4th June 2024	EPD received a complaint with ref: N07/RN/13039-24 on 12 May 2024. Complaint detail: "粉嶺安居街附近得利中心十字路口的地盤沒有把工地範圍和公共行人路分隔，泥土飛濺到兩旁公眾路段，污染環境。更不時有重型工程車輛在沒有圍封的情況下橫過行人路，對路人安全構成極大威脅。"	The investigation result as follows: According to the findings of investigation, the photos provided by the complainant was taken after the moving of the excavator toward the work front near On Tsuen Street. At that stage, the access was temporarily closed for the moving of plant that not available for workers due to safety concern, no one would be allowed to move around the excavator until the translocation was finished. Moreover, the access was not opened to public as it was still part of the construction site during the translocation of excavator. The openings showing in the photos provided by the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				complainants were for the workers only. The access has been formed properly after the moving of excavator with fencing and sandbags as bund and the silt was cleaned. The complaint was not project related. The Contractor will keep maintaining the condition of the access that to avoid causing the spread of dust and surface runoff.	
COM-2024-07-04	Construction site near Tong Hang Village (ND/2019/05)	4th July 2024	EPD received a complaint with ref: N07/RN/12113-24 on 17 June 2024. This is a follow-up complaint case of COM-2024-05-06 (Same RN no. See above for details) Complaint detail: "關於粉嶺塘坑村地盤「寶華地盤」本月 6 月 15 日落雨，雨水浸到我嗰邊個貨櫃，浸曬。我想係 6 月 15 號早上九點鐘左右啦，要求你幫幫忙，要求係 6 月 15 號早上 9 點 15 分左右後面做條出水渠。"	The investigation result as follows: Due to the site progress, there was no earthworks conducted on the ground surface at the moment. The ground surface is mainly serving the purpose of precast segment storage, site access and site accommodation. The entire ground surface of the works area had been hard paved since 2021 in accordance with mitigation measure recommended in the Approved EM&A Manual. Rainwater would be drained by gravitational fall along the ground surface by level difference. The entire ground surface of the works area was formed with inclination from highest level at the northern part to lowest at the site access connecting to the Tong Hang Village Road. JV and AECOM visited the concerned premises on 20 June 2024 under the complainant's consent and accompany. It was observed that the drainage system of the premises relies on several 2 inches PVC pipes	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				installed at the bottom of its western wall. Theoretically, rainwater received by the premises could be drained by those PVC drainage pipe by gravity. The adjacent area to the western wall of the premises is a storage yard managed by JV. A concrete temporary drain had been constructed to receive and divert collected rainwater away from the area. From the photograph provided by the complainant, it could be observed that the level of ground along the premises is uneven. The ground level at the eastern side, which is adjacent to the site hoarding, of the premises is slightly lower than that at the western side, where the PVC drainage pipes are installed at. However, topographical survey could not be conducted to verify the observation unless agreed by the owner of the premises. The complainant raised his concern to the project team directly on 15 June 2024. After on-site communication with the complainant on 20 June 2024, the following additional measures were provided: 1. A new 200mm concrete bund has been constructed along the lower ground adjacent to the concerned premises so as to divert rainwater to by-pass the site accommodation area. 2. Temporary drainage has been enhanced by laying extra pipe underground to guide the rainwater to	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				existing discharge point. Water pumps have been set at catchment points as emergency backup during exceptional weather condition.	
COM-2024-08-28	Construction site (ND/2019/04)	28th August 2024	EPD received a complaint with ref: N07/RN/22970-24 on 23 August 2024. Complaint detail: "發生地點: 粉嶺北新發展區第一階段–粉嶺繞道東段 投訴公司/承建商名稱: 大宇–俊和–群利聯營 Complaint detail: .....地盤污水隨便亂排放..... "	The investigation result as follows: Nno improper discharge has been observed on site and the mitigation measures, including the wastewater treatment system, silt curtains, bunds and paved area, were all in place and in good condition. No runoff has been observed at the site boundary adjacent to both Ma Wat River and Ng Tung River. All the wastewater was treated by wastewater treatment system before discharge. The Contractor will keep maintaining the condition of the mitigation measures to avoid silty runoff from entering the nearby waterbodies. They will also keep reviewing the site condition to provide suitable mitigation measures whenever necessary.	Closed
COM-2024-08-30	Construction site near Ma Sik Road (ND/2019/04)	30th August 2024	EPD received a complaint with ref: N07/RN/23212-24 on 29 August 2024. Complaint detail: The complainant complained about construction noise from the subject site at around 20:00hrs to 22:30hrs daily, and provided 2 videos.	The investigation result as follows: The noise generated should be mainly caused by the handling of the scaffold. Since, the whole site of the project is located outside designated area, the assessment for CNP was done according to the Technical Memorandum on Noise from Construction Work Other Than Percussive Piling, prescribed construction works are not required in the assessment in non-designated area.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				No non-compliance of legal requirement has been found. However, training has been provided to the workers and supervisor in controlling the behaviour when working in restricted hours in order to reduce the nuisance to the resident living nearby. The workers of sub-contractors have been warned on the bad practice causing nuisance and will be fined if any bad behaviour was observed by the supervisor. The Contractor will keep improving the working behaviour of the workers and supervision on them to reduce the nuisance to the neighbour and will also keep in touch with the management office of those estate nearby on the enquiries from the residents.	
COM-2024-09-13	Discharge points from ND/2019/01 and other associated NDA development projects.	13th September 2024	EPD received a complaint with ref: N07/RN/24157-24 on 9 September 2024. Complaint detail: "I refer to DSD's post-inclement weather inspection in the afternoon of 6/9/2024, suspected muddy water was observed along the Shek Tsai Leng channel near Ho Sheung Heung Road ..... it was noted that the upstream is the discharge points from ND/2019/01 and other associated NDA development projects. Such muddy water would carry siltation and may induce adverse environmental impacts to public watercourses."	The investigation result as follows: According to the record of Hong Kong Observatory, Tropical Cyclone warning Signal No.8 was hoisted in the morning and lower to signal 3 at 12:40 on 6 September 2024. Besides BKREJV, there are five interfacing contractors discharge at the same discharge point at the upstream of the channel which include Yau Lee, Hip Hing, China Road Bridge, Sun Fok Kong and China geo-engineering. BKREJV carried out post typhoon checking on the wastewater treatment facilities in the afternoon of 6 September 2024.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				It was checked that 1) adequate chemical was observed in the chemical containers of wastewater treatment plant; The water pump system was found in normal operation and 3) the water discharge from wastewater were checked in proper order by visual inspection. In view of the channel condition of Shek Tsai Leng channel, mud deposit was observed due to previous discharge of muddy water by other interface contractors. The generation of muddy water may also cause by adverse weather.	
COM-2024-09-16	Construction site area near the wholesale market adjacent to the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	16th September 2024	EPD received a complaint with ref: N07/RN/24807-24 on 16 September 2024. Complaint detail: "粉嶺馬適路-沙頭角公路地盤於 9 月 15 日星期日,有大量工人工作,期間有多架重型機器同時運作,包括有挖泥機推土和拍打地面;有夾臂車攪拌水泥和卸下水泥;有大型起重機吊運建築材料,造成大量噪音,十分滋擾 本人及附近居民平日已經要承受地盤發出的建築噪音,實在無法忍受星期日仍要受苦,請環保署積極處理" Photos and Videos provided.	The investigation result as follows: The works showing in the video provided by the complainant should be lifting, operation of excavation and some grout-mixing like work at Portion J. According to the site record including site dairy endorsed by RE, no grouting works have been scheduled on 15 September 2024. No dump truck with grab and excavator have been permitted too. In conclusion, no works as shown in the photo and videos provided by the complainant have been scheduled on 15 September 2024. Also, No non-compliance of legal requirement has been found. The complaint is not project related. Briefing and training would be kept providing to the workers and supervisors in controlling the behaviour when working in restricted hours in order to reduce the nuisance to the resident living nearby. The contractor	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				will also keep informing the works scheduled at daytime and also in restricted hours to the residents living near the site area.	
COM-2024-10-02	Construction site at Ma Tso Lung Road (ND/2019/01)	2nd October 2024	EPD received a complaint with ref: N07/RN/25963-24 on 27 September 2024. Complaint detail: "工地邊界流出泥水" Attached with 4 photos that shows mud stain on pubic road surface.	The investigation result as follows: Based on Contractor's record, construction of cofferdam was start in May 2024 and only welding and lifting works were involved during the investigation. After investigation, the mud / soil on the road maybe caused by construction plant (the excavator) moving from the opposite isolated site to another side (cofferdam area) of the site. The mud on the crawler of the excavator dropped on the public road and left unattended. The concerned site areas have been hard paved and water hose was provided. Training to the plant operator not allow to moving plant on public road was provided by the Contractor after the incident. Site area was re-aligned by combining the isolated site into the cofferdam area, and re-diverted the haul road as a result all construction plant would move within the site area. In conclusion, the cause of mud stain maybe due to the movement of construction plant on public road. Contractor will closely monitor the site condition to prevent recurrence.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2024-10-07	Construction site at Ma Tso Lung Road (ND/2019/01)	7th October 2024	EPD received a complaint with ref: N07/RN/26613-24 on 4 October 2024. Complaint detail: ".....另外每次落雨都會地盤內泥土都會沖出路面，當太大雨時水浸情況會出現多了 發展區地盤改路嚴重影響村民出入車輛，新建道路灣路多及暗藏坑洞凹凸不平，對村民駕駛出又十分危險 ！地盤出入車輛經常帶出了地盤泥土，令到路面十分骯髒！大量村民投訴平均兩三日要洗一次車，嚴重影響村民正常生活....."	The investigation result as follows: During the investigation, construction of road kerb and underground water mains installation was observed, no dusty activity was carried out. The cleanliness of Ma Tso Lung Road was kept is in good condition. No mud/soil track was observed during the inspection. Provision of functional wheel washing facility on site. According to photo records during adverse weather on 6 September 2024 (under typhoon signal no. 8) and 21 September 2024 (under red and amber rainstorm warning signal), no flooding was observed along Ma Tso Lung Road. All wastewater was collected and diverted to our wastewater treatment system for treatment before discharge. In conclusion, Contractor has provided and implemented mitigation measures such as regularly watering the haul road, automatic wheel washing facility, provision of temporary sump pit to collect surface runoff and wastewater treatment system on site. The uneven ground along the re-aligned Ma Tso Lung Road maybe due to frequently travel by heavy vehicles. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2024-10-30	Construction site at Ma Tso Lung Road (ND/2019/01)	30th October 2024	EPD received a complaint with ref: N07/RN/29125-24 on 23 October 2024. Complaint detail: "來電人投訴上水馬草壟閘口近燈柱編號 EB4735 地盤經常冕上發出噪音和發出燒焊的味道。"	The investigation result as follows: Welding works conducted at restricted hours as mentioned by the complainant which is complied with the valid construction noise permit. All welding works above ground level have been nearly completed; the remaining welding works are conducted under the shaft where no part of such works is visible from nearby sensitive receivers. BKREJV will reschedule the working hours to minimize the impact to the nearby residents. Further to joint inspection with AECOM and ET, BKREJV hotline for public enquiry and complaint is displayed at the conspicuous location near Ma Tso Lung Road. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed
COM-2024-11-14N	Construction site near Kwu Tung North Multi-welfare Services Complex (ND/2019/01)	14th November 2024	EPD received a complaint with ref: N07/RN/30844-24 on 7 November 2024. Complaint detail: "古洞北福利服務綜合大樓附近地盤長期發出噪音，他指管制時間內一樣持續傳出動工聲音，對家中老人家造成滋擾。"	The investigation result as follows: According to the layout plan, it was observed that there are at least 12 interfacing contractors located near the Multi-welfare Service Complex. Based on the Contractor's investigations, BKREJV have no site activities carried out near the Multi-welfare Service Complex during the restricted hour. However, construction activities by nearby interfacing contractors	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				were observed. The noise source in restricted hour is most likely due to site activities from other interfacing contractors. As such, no follow up or mitigation measures were proposed. BKREJV will ensure its construction works comply within the CNP requirements during the restricted hour (if any) and monitor the site condition to prevent nuisance to public.	
COM-2024-11-14W	Construction site at Ma Tso Lung Road (ND/2019/01)	14th November 2024	"EPD received a complaint with ref: N07/RN/31435-24 and N07/RN/31440-24 on 13 November 2024. Complaint detail: “投訴人投訴指在馬草壟路和鳳崗花園之間的河流下游，燈柱 VD7679 旁，從 11 月 10 日開始就有大量黃泥水從上游的建築地盤流過去。 投訴人原本以為是個別情況，結果後續每日都有黃泥水排到河道，令河道開始淤塞，懷疑該處地盤有違規或者故意排放污水到河道，要求部門檢視及處理。”	The investigation result as follows: According to the record of Hong Kong Observatory, Tropical Cyclone Warning Signal No.3 was hoisted from 9 November 2024 to 10 November 2024, and shortly afterwards, another typhoon TORAJI struck Hong Kong and Tropical Cyclone Warning Signal No.8 was hoisted from 13 November 2024 to 14 November 2024. Both weather events resulted in significant rainfall across Hong Kong. During the investigation on 15 November 2024 and 18 November 2024, inspection took place at the upstream of the complaint location, where is the nearest manhole near the Contract's site at Ma Tso Lung Road. It was observed that the sump pit and the AquaSed wastewater treatment facilities were found to be functioning properly and the discharge from the treatment plant connected to the manhole was clean, with no signs of muddy stains or slurry observed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				However, muddy stains were observed downstream near lamp post VD7679. Based on the Contractor's record, the self-check of wastewater sample at nearby wastewater treatment plant was conducted on 14 November 2024 and looked transparent. In view of the above, BKREJV has conducted monitoring on the wastewater treatment system and quality of discharge, no abnormalities were identified during the investigation. BKREJV will strengthen site supervision to ensure that all wastewater discharges complied with the discharge license. The environmental conditions of the site will be continuously reviewed and monitored to ensure no muddy discharge into public channels.	
COM-2024-11-14A	Construction dust nearby Lamppost VA6214, VA6215, Ho Sheung Heung Pai Fung Road (ND/2019/02)	14th November 2024	"Complaint received by EPD on 11 Nov 2024 with EPD ref: N07/RN/31190-24. Detail as follow: “燈柱 VA6214-VA6215 之間有個地盤經常帶好多泥沙石到馬路上，導致附近居民環境變差非常大塵，希望政府部門監督嚴懲違例事件違例事件同用水車清洗有關街道解決現狀情況"" ""地點係河上鄉排峰路燈柱燈柱 VA6214-VA6215 之間有個地盤經常帶好多泥沙石到馬路上，導致附近居民環境變差非常大塵，希望政府部門監	Investigation was conducted by contractor and reply as follow: There are area or road used by other stakeholders between Ho Sheung Heung Pai Fung Road and our site boundary which share the same exit, and it is 20m away from the Contract's site boundary. Measures have been applied regularly to reduce dust, mud from spreading out the construction site such as water wagon applied for water spraying on haul road, water pipe provided for dust suppression, paved area for wheeling washing and Ho Sheung Pai Fung Road	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			督嚴懲違例事件違例事件同用水車清洗有關街道解決現狀情況”	cleaning by water wagon regularly. The Contractor will keep ensuring the measures for dust suppression to be effective and reviewing the site condition if enhancement of measures is needed, including water spraying, wheel washing, cleaning whenever necessary."	
COM-2024-12-31	Construction site at Ma Tso Lung Road (ND/2019/01)	31st December 2024	Complaint received by EPD on 24 Dec 2024 with EPD ref: N07/RN/35827-24. Detail as follow: “請 1823 將個案轉交申訴專員，CEDD 縱容承商非法排放黃泥水，不顧附近環境生態。附近唯一一個大型地盤，黃泥水不是來自地盤，難道天降黃泥水。有顧問公司監查，有等於無。環境保護署，及 CEDD 表示多次巡查都冇發現有黃泥水，反而我哋星斗市民可以屢次影到有泥水排放。今日 23/12/2024 下午四點半左右，又影到。”	The investigation result as follows: ""During the joint investigation between RSS and BKREJV on 23 December 2024 at around 17:30 at Site Area Portion 9b and 9c, it was observed that: a) the water discharge from sites to the upstream manhole were found in proper order without any signs of mud. b) the sump pits, pumping systems and the wastewater treatment plants were found in proper working order. c) washing out of the Dongjiang Water was being carried out by Water Supplies Department at the wash out location near Portion 9c. Large amount of Dongjiang Water with high velocity was observed flowing to the adjacent manhole. In additional, water samples were collected directly from the wastewater treatment plant discharge outlet for visual self-checking on 21 and 23 December 2024. It was also found that both samples were clean by visual inspection. Based on the daily checking record at	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				the upstream manhole since December 2024, all the discharges from sites were found in proper order. EPD also conducted an inspection at Site Area Portion 9b and 9c on 30 December 2024 in the morning. It was also found that the discharge points, the sump pits, pumping system and wastewater treatment facilities were all in proper order without any adverse comments. BKREJV assigned a person to closely monitor the conditions of discharge points at Portion 9b and 9c with proper daily checking record photos. BKREJV will strengthen site supervision to ensure that all wastewater discharges complied with the discharge license. The environmental conditions of the site will be continuously reviewed and monitored to ensure no substandard water discharge into public channels. In view of the above, BKREJV has deployed proper wastewater treatment facilities at Site Area Portion 9b and 9c, which is the upstream of the concerned stream. BKREJV has also conducted daily self checking at the upstream manhole for the water discharge condition which were found in proper order since December 2024. The water discharges were also found in proper order during the inspections conducted by RSS, Environmental Team and EPD in November and December 2024 respectively.""""	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-01-07	Construction site near Ma Wat River (ND/2019/05)	7th January 2025	Complaint received by EPD on 22 Dec 2024, 31 Dec 2024 and 2 Jan 2025 with EPD ref: N07/RN/35541-24, with 13 Photos attached. Detail as follow: **Complaint on 22 December 2024:** "I think some construction company keep on throwing construction water to the river. Please look into it. This action kills all the fishes and the surrounding ecology. Very annoying." **Follow-up on 31 December 2024:** "Every day or night I can still see the construction water." **Follow-up on 2 January 2025:** "More construction water on Jan 1 2025."	The investigation result as follows: **1. Site activities at Piers C3-03** Major site works conducted at site area near Pier C3-03 was forming reinstatement level, i.e. backfilling and preparation works for grasscrete installing along riverside. **2. Site information on 19 December 2024** In the morning of 19 December 2024, JV's worker reported that a water pipe, near Fire Hydrant 4346, supplying potable water to nearby residents was damaged and significant amount of water was flushing out from the concerned pipe and entering the site area around Pier C3-03. Since the concerned water pipe is independent of any works of JV, Water Supplies Department was informed by JV's site staff regarding the said issue. The ingress of water was stopped by other works department within the same day. Please refer to Appendix II for photo record taken on 19 December 2024. **3. Site information on 30 December 2024** No works was performed during nighttime and/or evening time. No precipitation recorded. No water discharge was performed. **4. Site information on 01 January 2025**	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				No works was performed at the works area nor nearby during the whole general holiday. In view of the abovementioned incident, JV has stepped up the site preparedness for run-off control during dry season at works area around Pier C3-03. The following additional measures at dry season were provided: 1. Sandbag bund has been provided to further minimize any untreated water from entering nearby watercourse, i.e. Ma Wat River; 2. Unfinished soil level should also be compacted to minimize contamination to unexpected ingress of water; 3. Exposed slope surface should be covered by impervious materials to further minimize contamination to unexpected ingress of water. The extra measures were also inspected by EPD's representative during surprised inspection on 27 December 2024."	
COM-2025-01-10	Construction site near Cyber Domaine (ND/2019/05)	10th January 2025	Complaint received by EPD on 6 January 2025 with EPD ref: N07/RN/00463-25. Detail as follow: "地盤每天很早就開工，隔音屏未能有效阻隔及減弱機器/工作時發出的聲響"	The investigation result as follows: "The following information is summarized investigation:	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				1. Site activities at Piers C4-04 to Pier E1-01 Major site works conducted at site area near Pier C4-04 to Pier E1-01 was bridge segment transportation, on bridge deck. Due to the site progress, there was no works conducted on the ground level at the moment. The ground level is mainly serving the purpose of precast segment storage, site access and site accommodation. **2. Site activities at Piers C4-04 to Pier E1-01 on 06 January 2025** According to site record, site personnel started morning exercise and briefing from 07:45 to 08:30. Site works, including machines checking and maintenance, installing railing on precast segment, lifting works by gantry crane, logistic works and general housekeeping, were conducted from 08:30 to 17:30. No works was conducted at the area during restricted hours. A 4m high temporary noise barrier has been erected on top of site hoarding between Cyber Domaine and site area since November 2023. Based on the above information, it might conclude that the complaint is not related nor valid to the project. Nevertheless, the Contractor will again remind workers to keep minimal noise from manual works if any."	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-02-20	Construction site near "大窩西支路何家園" (ND/2019/05)	16th February 2025	Complaint received by EPD on 6 January 2025 with EPD ref: N07/RN/00004124-25. Detail as follow: "投訴人投訴大窩西支路何家園中國鐵路建築地盤星期日依然動工，產生躁音，要求跟進。"	Summarized investigation result as follows: **1. Construction Works at TWSRW on 16 February 2025** According to site record, there was no construction works nor operation of PME conducted on 16 February 2025 at TWSRW site area. JV's construction team had applied for use of PME around areas near Footbridge NF83A and Tai Wo Service Road East (TWSRE) according to valid CNP GW-RN1399-24 by means of Permit-to-Work system, and it was approved. However, due to actual site necessity, the said works was not performed on the concerned day. **2. Construction Noise Permit (CNP) for Concerned Area on 16 February 2025** CNP GW-RN1399-24 was valid on 16 February 2025 with Zone XI, Zone XII and Zone XIII covering works area at TWSRW. Moreover, the three zones are located outside of Designated Area defined under Noise Control Ordinance. Based on the above information, it might conclude that the complaint is not related nor valid to the project. Nevertheless, the Contractor is reminded again to observe all conditions stipulated on approved CNPs when they are being exercised.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-06-01	Construction site area near Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	4th June 2025	Complaint received by EPD on 1 June 2025 with EPD ref: N07/RN/00014453-25. Detail as follow: "該地盤於 31/5 端午節及 1/6 星期日連續 2 天,在早上 8 時開始,就有大批工人工作,期間不斷有機器切割金屬的噪音傳出,懇請環保署派員到場調查有否違規"	Summarized investigation result as follows: "The works showing in the photos provided by the complainant should be scaffolding erection by sub-contractor. Only erection of scaffold and housekeeping works were conducted at both areas on 31 May 2025 and 1 June 2025. No powered mechanical equipment has been used. The noise generated should be mainly caused by the handling of the scaffold. Since, the whole site of the project is located outside designated area, the assessment for CNP was done according to the Technical Memorandum on Noise from Construction Work Other Than Percussive Piling, prescribed construction works are not required in the assessment in non-designated area. Moreover, the Contractor have valid CNP (See Appendix A) covering the site area and number of PMEs are permitted to be used during restricted hours. In order to reduce the nuisance, the Contractor has provided training to the workers and supervisor on working behaviour during restricted hour, for example, limit the knocking of materials, well organizing the materials to avoid dropping and throwing of them. Contractor will keep improving the working behaviour of the workers and supervision on them to reduce the nuisance to the neighbour and will also keep in touch with the management office of those estate nearby on the enquiries from the residents."	Follow-up complaint received on 29 Jun 2025. Pending.

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-06-11	Construction site at Ma Tso Lung Road (Road D4) (ND/2019/01)	11th June 2025	Complaint received by AECOM on 27 May 2025. EPD received the same complaint on 4 June 2025 with ref: N07/RN/14835-25 and N07/RN/14831-25 on 4 June 2025. Detail as follow: The complainant stating that the noise from the said works is loud and requesting a solution. "投訴人投訴古洞北馬草壟第一閘口有工程發出噪音。...投訴人指有關工程而持續發出噪音近半個月，投訴人曾與工程判頭投訴，亦收到總公司聯絡，但情況未見改善，每日都發出巨大噪音，尤其是打樁的時候，十分滋擾投訴人的日常生活，要求部門跟進。..." "馬草壟居民投訴古洞發展項目地盤, 打樁噪音嚴重及震動, 木屋內都搖, 投訴人已與地盤反映多次, 對方只表示無超標. 投訴人表示家中有病人很困擾."	Summarized investigation result as follows: "The complainant's house which is made of tin-sheeted with additional structure connect to the house. There was no Percussive Piling under Contract 1 (ND/2019/01). Current construction works near the complaint location are sheet piling, watermain works and construction of chamber during non-restricted hours. During the site inspection on 26 May 2025 with AECOM, dominant noise source was generated from sheet piling by vibratory sheet pile driver. It was observed that double layer of acoustic noise barriers has been erected between the complainant's house and vibratory sheet pile driver. Additional high density acoustic mat also provided in front of the complainant house. Self-initiative noise monitoring, Leq(30min), was carried out at the complainant's house for sheet piling works since 26 May 2025. The monitoring results which were below 75dB(A). EPD staff conducted complaint investigation on 12 June 2025 while no sheet piling works was conducted as the stage 1 of sheet piling was completed. Nevertheless, all noise mitigation measures are in place and no adverse comment was given by EPD staff. BKREJV has re-schedule the commencement of sheet pile works from 8:00 am to 8:30 am during non-	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				restricted hours after the complaint was received. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project."	
COM-2025-07-02	Construction site area near Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	29th June 2025	Follow-up complaint received by EPD on 29 June 2025 with EPD ref: N07/RN/00014453-25. Detail as follow: "2025 年 6 月 25 及 28 日晚上 9 時後, 我分別影到有工人使用機器切割金屬, 我清楚聽到噪音和見到火光..." Attached with 2 videos.	Summarized investigation result as follows: "The works showing in the video provided by the complainant should be grinding works conducted by sub-contractor. Hand-held grinder may be used for the corresponding works. The Contractor has valid construction noise permit including the use of hand-held grinder covering the site area and number of PMEs are permitted to be used during restricted hours from 19:00 to 23:00 on any day not being a general holiday. In order to reduce the nuisance, the Contractor has provided training to the workers and supervisor for work during restricted hour, on site supervision and noise mitigation measures like enclosure and noise barriers have been provided."	Closed
COM-2025-08-07	Construction site at Ma Tso Lung Road (ND/2019/01)	7th August 2025	Complaint received by EPD on 31 July 2025 with EPD ref: N07/RN/20092-25. Detail as follow: "工程於早上 7:00-21:00 進行，投訴噪音。 地點:馬草壟鐵坑村村口"	Investigation in progress.	Pending.

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			A phone call to the complainant was made by EPD office on 31 July 2025. The complainant clarified that the construction noise (including vibro-pilling works and concreting activities) was heard from 19:00 to midnight on 28 and 29 July 2025.		

APPENDIX T
SUMMARY OF SUCCESSFUL PROSECUTION

Appendix T - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up
--	--	--	--

APPENDIX U
SUMMARY TABLE FOR REQUIRED SUBMISSION UNDER ENVIRONMENTAL PERMIT

Development of Kwu Tung North and Fanling North New Development Areas

Summary for the EP Submissions

DP No.	EP No.	Designated Project	Phase (1st Phase = 1, Remaining Phase = 2)	Commencement date of construction	C1	C2	C3	C4	C5	C6	C7
DP2	EP-466/2013/A	Castle Peak Road Diversion	1	12-Aug-20	C1-DP2						
DP3	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	1	12-Aug-20	C1-DP3						
DP4	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	1	1-Jun-20 (for C1) 3-Jul-20 (for C3)	C1-DP4		C3-DP4				
DP5	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area	1	28-Oct-20		C2-DP5					
DP7	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	1	23-Mar-20	C1-DP7						
DP10	EP-473/2013/A	Fanling Bypass Eastern Section	1	6-Oct-20 (for C3) 23-Feb-21 (for C4) 1-Aug-20 (for C5)			C3-DP10	C4-DP10	C5-DP10		
DP12	EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area	1	29-Oct-19						C6-DP12	
DP14	EP-546/2017	Fanling North Temporary Sewage Pumping Station	1	16-Feb-21				C4-DP14			

DP2	EP-466/2013/A	Castle Peak Road Diversion				
Construction commencement date		**12 August 2020**				
Operation commencement date		**tbc**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction.	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction .	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction.	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	EPD Approved 25 August 2020
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer. <u>Note:</u> The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3.	prior to the commencement of construction.	Resubmitted 19 December 2024	
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit** - A copy of Photographic and cartographic records of directly impacted historical buildings at HKT08 and the entrance gate of HKT03.	prior to the commencement of the respective removal or relocation works.	NA	No relocation is required.
		Others	**For Approva**l - Proposals on relocation of any built heritages.	prior to commencement of the respective relocation work.	NA	No relocation is required.
2.8	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project.	Justification resubmitted to EPD on 26 March 2024	See Remark #
2.10	Traffic Noise Mitigation Plan	Before construction	**Submit**	At least one month before commencement of construction	To be submitted before commencement of Remaining Phase works	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction.	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period.	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address.	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit.	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available.	N/A	
			Maintain	entire construction period and during the first 3-year of operation.	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
* tentative submission date will be supplemented once available
# The Landscape Plan will be submitted by CEDD's Castle Peak Road project team as confirmed since there is no existing tree is being affected by CEDD KTN NDA Phase 1 Works within the small portion of area along Castle Peak Road (near Pak Shek Au) which is overlapped with DP2 work boundary.

DP3	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement				
Construction commencement date			**12 August 2020**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Sumbissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 27 July 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 27 July 2020	EPD Approved 25 August 2020
2.6	Traffic Noise Mitigation Plan	Before construction	**For Approval**	no later than 1 month before the commencement of consturction	Deposited 31 July 2019	EPD Approved 9 August 2019
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical lanscape features at Locatoins KT38, KT44 and KT52.	prior to the commencement of the respective removal or relocation works	Deposited 10 Feb 2021	No relocation is required
2.8	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project	Deposited 19 December 2022	Resubmitted to EPD 14 July 2023
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP4	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5				
Construction commencement date		**1 June 2020**				
Operation commencement date		**tbc**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer Note: The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3	prior to the commencement of construction	Resubmitted 19 December 2024	
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical landscape features at locations HKT03, KT16, KT17 and KT18	prior to the commencement of the respective removal or relocation works	NA	No relocation is required.
		Others	**For Approva**l - Proposals on relocation of any built heritages	prior to commencement of the respective relocation work	NA	No relocation is required.
2.8	Compensatory Tree Planting Plan	Before construction	**For Approval**	prior to the commencement of construction	Resubmitted 17 August 2022	EPD approved 31 August 2022
2.9	Habitat Creation and Management Plan	Others	**For Approval**	prior to the commencement of construction of relevant part of the Project	Submitted 20 October 2020	EPD approved 4 November 2020
2.10	Traffic Noise Mitigation Plan	Before construction	**For Approval**	no later than 1 month before commencement of construction	Submitted 31 July 2019	EPD approved 9 August 2019
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP5	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area				
Construction commencement date		**28 October 2020**				
Operation commencement date		**tbc**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notify 14 October 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 17 September 2020	
2.5	Location Plans	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Updated Plan Deposited 25 March 2024	First Deposited 15 October 2020
2.6	Landscape Plan	Before construction	**Deposit**	at least 6 weeks before the commencement of th corresponding parts of landscape and visual mitigation measures	Deposited 9 August 2022	Resubmitted to EPD on 5 July 2023
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP7	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works				
Construction commencement date		**23 March 2020**				
Operation commencement date		**tbc**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notify 22 January 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP10	EP-473/2013/A	Fanling Bypass Eastern Section				
Construction commencement date		**1 August 2020**				
Operation commencement date		**tbc**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 8 September 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 17 March 2021	
2.5	Location Plans	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 10 December 2020	
2.6	Relocation Plan for Rose Bitterling	Before construction	**Approval**	before the commencement of construction	N/A	
2.7	Egretry Habitat Creation and Management Plan	Before construction	**Approval**	before the commencement of construction	N/A	
2.8	Detailed Design of Siu Hang San Tsuen Stream	Before construction	**Deposit**	before the commencement of construction	Deposited 5 May 2022	EPD Satisfied 18 May 2022
2.9	Traffic Noise Mitigation Plan	Before construction	**Approval**	no later than 1 month before the commencement of construction	Updated 22 July 2024	EPD Approved 5 August 2024
2.10	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer Note: The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3	prior to the commencement of construction	Submitted 1 September 2022, 5 May 2022 and 12 July 2022	
2.11	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical landscape features at FL19	prior to the commencement of the respective removal or relocation works	Submitted 25 May 2022	No relocation is required
		Others	**For Approva**l - Proposals on relocation of any built heritages	prior to commencement of the respective relocation work	NA	No relocation is required
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP12	EP-475/2013/A	Reprovision of Temporary Wholesale Market in Fanling North New Development Area				
Construction commencement date		**29 October 2019**				
Operation commencement date		**20 July 2023**				
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 15 October 2019	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 October 2019	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 October 2019	
2.6	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project	Deposited 31 March 2022	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submited by Pre-construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP14	EP-546/2017	Fanling North Temporary Sewage Pumping Station				
Construction commencement date			**16 February 2021**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 1 month prior to the commencement of construction	Notified 8 September 2020	
1.14	Commencement date of operation	Before operation	**Notify in writing**	no later than 1 month prior to the commencement of operation	N/A	
2.4	IEC Audit Report	After construction	**Deposit**	within one month upon completion of the construction works	N/A	