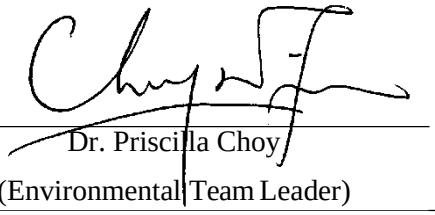
Civil Engineering and Development Department

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 June 2023

(Version 1.0)

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.

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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. 44 (June 2023)

21 July 2023

BY EMAIL

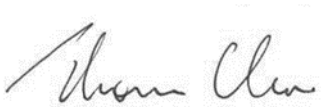
Dear Sir,

We refer to email of 21 July 2023 attaching the Monthly Environmental Monitoring and Audit Report No. 44 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 or our Ms. Liz Lo at 2828 5751.

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



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EXECUTIVE SUMMARY

Introduction

1. This is the 44th 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 June 2023.

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

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
1-hr Total Suspended Particulates (TSP) Monitoring	FLN-DMS1	N/A	N/A	6, 12, 16, 20, 23 and 28 Jun 23	6, 12, 16, 20, 23 and 28 Jun 23	N/A	N/A	N/A
	FLN-DMS3			N/A	N/A	6, 12, 16, 20, 23 and 28 Jun 23		
	FLN-DMS5			5, 9, 15, 21 and 27 Jun 23	5, 9, 15, 21 and 27 Jun 23	N/A		
	KTN-DMS4(B)	5, 9, 15, 21 and 27 Jun 23		5, 9, 15, 21 and 27 Jun 23	N/A			
24-hr TSP Monitoring	FLN-DMS1	N/A	N/A	5, 9, 15, 21 and 27 Jun 23	5, 9, 15, 21 and 27 Jun 23	N/A	N/A	N/A
	FLN-DMS3			N/A	N/A	5, 9, 15, 21 and 27 Jun 23		
	FLN-DMS5A			5, 9, 15, 21 and 27 Jun 23	5, 9, 15, 21 and 27 Jun 23	N/A		
	KTN-DMS4(B)	5, 9, 15, 21 and 27 Jun 23		5, 9, 15, 21 and 27 Jun 23	N/A			
Noise Monitoring	CP-FLN-NMS1	N/A			6, 12, 23 and 28 Jun 23			N/A
	CP-FLN-NMS2	N/A				6, 12, 23 and 28 Jun 23	N/A	
	CP-KTN-NMS2	9, 15, 21 and 27 Jun 23	N/A	N/A				
	CP-KTN-NMS3							
	CP-KTN-NMS5							
	CP-KTN-NMS6	N/A	9, 15, 21 and 27 Jun 23					
Ecological Survey	Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung River, Sheung Yue River, and Long Valley	N/A*	N/A*	2, 5, 6, 15, 16, 19, 21, 29 and 30 June 23	2, 6, 15, 21 and 29 June 23	N/A*	N/A*	N/A*

	Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream	20 June 23	N/A*	20 June 23	20 June 23	N/A*	N/A*	N/A*
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	14 and 23 June 23	14 and 23 June 23	23 June 23	23 June 23	23 June 23	N/A*	N/A*
Egretry Monitoring		N/A	N/A	26 Jun 23	N/A	N/A	N/A	N/A
24-hr RSP (Ambient Arsenic) Monitoring for Land Contamination		2, 8, 14, 20, 26 and 30 Jun 23	N/A	2, 8, 14, 20, 26 and 30 Jun 23	N/A	N/A	N/A	N/A
Water Quality Monitoring		N/A	3, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 Jun 23	N/A	3, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 Jun 23	N/A	N/A	N/A
Landfill Gas Monitoring		21 Jun 23	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	Daily assessment subject to construction works conducted within assessment area	N/A	N/A	Daily assessment subject to construction works conducted within assessment area	N/A	N/A
Environmental Site Inspection		6, 14, 20 and 27 Jun 23	9, 12, 21 and 28 Jun 23	2, 9, 16, 20 and 30 Jun 23	1, 8, 14, 21 and 29 Jun 23	5, 15, 19 and 26 Jun 23	1, 8, 14, 21 and 29 Jun 23	2, 9, 16, 19 and 30 Jun 23

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	$L_{eq(30min)}$	0	0	0	0	0	0
Water Quality [1]	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	1	1	2	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. No Action/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. Built heritage monitoring was carried out in the reporting month by the Contractor under ND/2019/02 and ND/2019/05 for surveyed cultural heritage. No Limit Level exceedance was recorded.

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month. One (1) action level exceedance and one (1) limit level exceedance for odonata were recorded at T3. The exceedance was considered non-project related, as large proportion of vegetative habitat along T3 were observed either removed or tarmacked as haul road by construction works outside of project, first reported in the Monthly Monitoring Report in December 2021. The ecological monitoring result in the Reporting Month is shown in **Appendix L**.

Egretry Monitoring

12. All Egretry monitoring was conducted as scheduled in the reporting month. The monitoring results can refer to the Monthly Egretry Monitoring Report for June 2023.

Complaint Log

13. No environmental complaint was received in the reporting month.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

15. 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

16. 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 (July to September 2023)
ND/2019/01	(a) Site Clearance, tree felling, removal of existing structures, slope work and drainage works in Portion 1a (b) Excavation, backfilling, construction of hoarding/fencing and road works and tree felling in Portion 1b (c) Site clearance, site formation and socket H piling in Portion 1c (d) Temporary storage of material and site formation in Portion 1e (e) Tree felling, site formation work and construction of subway and road works in Portion 2 (f) Excavation, backfilling and drainage works in Portion 3 (g) Watermain, excavation, backfilling, road works, sheet piling and pipe jacking in Portion 5 (h) Drainage works, backfilling, road works, watermains work in Portion 6a (i) Operation of HAC treatment facility in Portion 6b (j) Site formation, sheet piling, excavation and drainage works in Portion 7 (k) Construction of retaining wall, RC construction of fresh water reservoir, construction of WSD's maintenance access and backfilling works and drainage works in Portion 8a (l) Trenchless work, excavation, watermain construction and trial pit in Portion 8b (m) Sheet piling, excavation, drainage works and watermain construction in Portion 9b (n) Stockpile of soil in Portion 9c (o) Portion 10a was handed over. Road opened. (p) Road works and site clearance in Portion 10b (q) Site clearance, tree felling, remove of existing structure in Portion 13
ND/2019/02	(a) Pipe Jacking (b) Backfilling (c) Concreting (d) Bedding & Pipe Laying (e) ELS (f) Sheet Pile Installation (g) Cut and Fill of Slope
ND/2019/03	(a) Portion 1 & Portion 1A - Road & Drainage works and watermains works at Yin Kong Road - Installation of Street Lighting - Construction of Pavilion at Yin Kong Road (b) Portion 2 to Portion 20C - Wetland creation & restoration, Dry agricultural land creation - Construction of compacted earth path - Construction of Water Treatment Wetland - Tree felling and tree pruning work - Construction of Lodging Facility - Construction of Dry Weather Flow Interception (DWFI)

Contract No.	Site Activities (July to September 2023)
ND/2019/04	(a) Tree Felling and transplant (b) Pile Cap (c) Back Filling (d) Excavation (e) Grouting (f) Sheet Piling (g) Road works (h) Formwork Erection (i) Rebar Fixing (j) Pre-drill (k) Bore pile (l) ELS
ND/2019/05	(a) <u>North Team Works</u> - ELS works and Pile cap construction at B2-01, B2-03 & D2-01 - Backfilling and drainage works at C4-02 & C4-01. - Backfilling at C3-04b. - Footing of tower crane at E2-01 - Construction of B1-abutment wall. - Pier construction at D2-01 & B2-03 - Pier head construction at C2-04b, D2-01 <u>Viaduct Works</u> - Segment fabrication for bridge C2, D1, D2& E1. - Segments erection by LG at bridges C4, C3. - Segments erection by crane at bridge D1 and E1. - T-span construction by form traveler at Pier E2-02, E3-03, D2-02, E3-01 - SOP construction at E3-02, D2-03, E2-01, E2-03 - Construction of pile cap and installation of bridge rotation components at pier D2-01. - Design and fabrication of 3rd and 4th set of form traveler. - Design and fabrication of falsework for Bridge B1. - Erection of tower crane at E2-01. - Design mold for Bridge B2 segments. (b) <u>South Team Works</u> - TWSRW – Road work and UUs laying (Section P800 CH 250 to 450). - TWSRW – Installation work of ranking drain for FS04. CLP 11 kv cable diversion work (1ST) - TWSRE – Form D300 new road, BBI footing, relocation of existing BBI and road diversion - TWSRE – Drainage Diversion, Road Drain, UUs laying (HKT, CLP, TCSS, Irrigation) - HKY FB (East) – Construction of extension roof, install subframe, cladding, E&M - HKY FB (West) – Construction of LT2 (Foundation) - E3-04a, E3-05M, E4-01 and E4-02 – cap construction. - NB109 – Bay 9~13, base slab construction. - NB69 – Bay 6~8 ELS excavation and base slab construction - NB110 – Bay 3~5 Base slab and wall construction - Form Traveler assembly at D2-02 & D2-03 - Design and fabrication of 4th and 5th set of form traveler. (c) <u>Form Traveler</u> - E2-03 – construction 7th pair - E2-02 – construction 6th to 9th pair

Contract No.	Site Activities (July to September 2023)
	- D2-02 – construction 1st to 2nd pair - D2-03 – erection of form traveller no. 4
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, 4 and 5 (b) C&D waste disposal at Portion 1, 2, 4 and 5 (c) Construction of box culvert at Portion 2 (d) Filling works at Portion 2 and 4 (e) Construction of site haul road at Portion 4 (f) Drainage works, Sewerage works at Portion 1, 3, 4 and 5 (g) Mini piling works at Portion 4 (h) Construction of noise barrier at Portion 4 and 5 (i) Waterworks at Portion 1 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 44th EM&A Report which summarises the key findings of the EM&A programme in June 2023.

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. Raymond Cheng	3619 3919	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	Mr. Wesley So	9144 1643	
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 Manager	Mr. Jimmy Cheng	9609 5916	
	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. Louise Poon	5272 5709	
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. Daniel Wong	5335 9572	--
	Environmental Officer	Mr. K. M. Lui	5113 8223	
	Environmental Supervisor	Mr. Attlee Chau	6386 9018	

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 (June 2023)
ND/2019/01	(a) Site clearance, removal of existing structures and drainage works at Portion 1a (b) Excavation, backfilling and drainage works at Portion 1b (c) Site clearance and site formation at Portion 1c (d) Temporary storage of material at Portion 1e (e) Site clearance, site formation and construction of subway, drainage works and road works at Portion 2 (f) Site clearance, excavation, sheet piling and drainage works at Portion 3 (g) Drainage works, excavation, backfilling and sheet piling at Portion 5 (h) Drainage works and backfilling at Portion 6a (i) Operation of HAC soil treatment facility at Portion 6b (j) Drainage works, excavation and backfilling at Portion 7 (k) Construction of retaining wall, RC construction of fresh water service reservoir, construction of WSD's maintenance access, drainage works and backfilling works at Portion 8a (l) Set up for pipe jacking at jacking pit at LWSC's car park, trenchless work, and watermain construction at Portion 8b (m) Sheet piling, excavation, drainage works and watermain construction at Portion 9b (n) Stockpile of soil at Portion 9c (o) Portion 10a was handed over. Road opened. (p) Road works and site clearance at Portion 10b (q) Site clearance and removal of existing structures at Portion 13
ND/2019/02	(a) Pipe Jacking (b) Backfilling (c) Concreting (d) Bedding and pipe laying (e) ELS (f) Sheet Pile Installation (g) Cut and Fill of Slope
ND/2019/03	(a) Portion 1 & Portion 1A - Road & Drainage works and watermains works at Yin Kong Road - Installation of Street Lighting - Construction of Pavilion at Yin Kong Road (b) Portion 2 to Portion 20C - Wetland creation & restoration, Dry agricultural land creation - Construction of compacted earth path - Construction of Water Treatment Wetland - Tree felling and tree pruning work - Construction of Lodging Facility - Construction of Dry Weather Flow Interception (DWFI)

Contract No.	Site Activities (June 2023)
ND/2019/04	(a) Tree Felling and transplant (b) Pile Cap (c) Back Filling (d) Excavation (e) Grouting (f) Sheet Piling (g) Road works (h) Formwork Erection (i) Rebar Fixing (j) Pre-drill (k) Bore pile (l) ELS
ND/2019/05	(a) The segment erection using launching gantry is critical to completion of section 4. (b) The pier D2-01 with bridge rotation system is critical to completion of section 5. (c) The erection of 3rd form traveler at D2-02 is in progress. (d) 5th set of form traveler is under fabrication off-site to be used at E2-01.
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, 4 and 5 (b) C&D waste disposal at Portion 1, 2, 4 and 5 (c) Drainage works, Sewerage works at Portion 1, 3 and 4 (d) Construction of box culvert at Portion 2 (e) Filling works at Portion 2 and 4 (f) Construction of site haul road at Portion 4 (g) Waterworks at Portion 1

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

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	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-RN0252-23	16/03/2023	15/08/2023	Valid
	GW-RN0304-23	26/03/2023	31/08/2023	Valid
	GW-RN0392-23	20/04/2023	19/08/2023	Valid
	GW-RN0394-23	26/04/2023	25/07/2023	Valid
	GW-RN0419-23	24/04/2023	31/08/2023	Valid
	GW-RN0414-23	13/05/2023	12/09/2023	Valid
	GW-RN0426-23	19/05/2023	18/11/2023	Valid
	GW-RN0439-23	17/05/2023	31/08/2023	Valid
	GW-RN0459-23	15/05/2023	14/07/2023	Valid
ND/2019/02	GW-RN0048-23	08/02/2023	07/06/2023	Expired in reporting month
	GW-RN0234-23	15/03/2023	14/07/2023	Valid
	GW-RN0518-23	21/05/2023	31/08/2023	Valid
	GW-RN0534-23	08/06/2023	07/11/2023	Valid
ND/2019/03	GW-RN0054-23	01/03/2023	31/08/2023	Valid
ND/2019/04	GW-RN0300-23	23/03/2023	22/06/2023	Expired in reporting month
	GW-RN0353-23	13/04/2023	12/07/2023	Valid
	GW-RN0480-23	13/05/2023	25/07/2023	Valid
	GW-RN0481-23	15/05/2023	31/07/2023	Valid
	GW-RN0498-23	24/05/2023	30/07/2023	Valid
	GW-RN0595-23	23/06/2023	22/09/2023	Valid
ND/2019/05	GW-RN0239-23	08/03/2023	07/06/2023	Expired in reporting month
	GW-RN0262-23	22/03/2023	21/06/2023	Expired in reporting month
	GW-RN0288-23	30/03/2023	31/08/2023	Valid
	GW-RN0435-23	08/05/2023	07/08/2023	Valid
	GW-RN0510-23	08/06/2023	30/06/2023	Expired in reporting month
	GW-RN0531-23	01/06/2023	31/07/2023	Valid
	GW-RN0600-23	22/06/2023	21/09/2023	Valid
	GW-RN0631-23	19/06/2023	18/09/2023	Valid
	GW-RN0657-23	26/06/2023	30/07/2023	Valid
	GW-RN0664-23	24/06/2023	30/08/2023	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

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
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	WT00036071-2020	22/06/2020	30/06/2025	Valid
	WT00036073-2020	22/06/2020	30/06/2025	Valid
	WT00036067-2020	22/06/2020	30/06/2025	Valid
	WT00036075-2020	22/06/2020	30/06/2025	Valid
	WT00036076-2020	22/06/2020	30/06/2025	Valid
	WT00037191-2020	21/04/2022	28/02/2026	Valid
	WT00037204-2020	02/02/2021	28/02/2025	Valid
	WT00037412-2021	15/04/2021	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
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
	WT00036414-2020	25/02/2021	28/02/2026	Valid
	WT00037771-2021	08/07/2021	31/07/2026	Valid
	WT00035984-2020	25/02/2021	28/02/2026	Valid
ND/2019/04	WT00037539-2021	02/06/2022	30/04/2026	Valid
ND/2019/05	WT00036996-2020	22/12/2020	31/12/2025	Valid
ND/2019/06	WT00035415-2019	20/03/2020	31/03/2025	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	10
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	44.2	23.0 – 69.2	303	500
FLN-DMS3	37.6	20.5 – 63.3	301	500
FLN-DMS5	36.8	21.6 – 60.1	279	500
KTN-DMS4(B)	34.1	18.8 – 69.9	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	42.7	32.3 – 60.0	150	260
FLN-DMS3	27.3	18.0 – 31.9	165	260
FLN-DMS5A	37.6	25.1 – 68.5	153	260
KTN-DMS4(B)	40.9	20.7 – 63.5	192	260

3.23 All 1-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	Mobile crane, Excavator, piling, road traffic
FLN-DMS3	Excavator, piling, mobile crane, road traffic
FLN-DMS5	Road traffic
KTN-DMS4(B)	Excavator, piling, mobile crane, 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	5
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]	66.8 – 70.0	69.9	75
ND/2019/04				
ND/2019/05				
	CP-FLN-NMS2[2]	65.1 – 67.1	59.6	
ND/2019/01	CP-KTN-NMS2[3]	58.6 – 62.3	58.6	
	CP-KTN-NMS3[4]	53.7 – 60.0	51.6	
ND/2019/01	CP-KTN-NMS5	55.9 – 63.9	57.2	
ND/2019/02	CP-KTN-NMS6	60.0 – 63.0	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. No complaint on construction noise was received during the reporting month. No Action/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)	Excavator, dump truck, mobile crane, piling, road traffic
ND/2019/04			
ND/2019/05			
	CP-FLN-NMS2[2]	Scattered Village House in Tong Hang (Existing)	Excavator, piling, dump truck, road traffic
ND/2019/01	CP-KTN-NMS2[3]	Residential Buildings at Ma Tso Lung (Existing)	Dump truck, excavator, road traffic
ND/2019/01	CP-KTN-NMS3[4]	Fung Kong Garden (Existing)	Road traffic
ND/2019/01	CP-KTN-NMS5	N/A	Road traffic
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

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 4^{o}C 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	3

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 4^{o}C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.

Quality Control Measures for Sample Testing

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)
02/06/2023	KTN-DMS4(A)	4.41	9.36	11.7
08/06/2023		5.16		
14/06/2023		3.32		
20/06/2023		4.30		
26/06/2023		2.67		
30/06/2023		5.70		

6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, around 80.55m^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 6** 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
Portable gas detector	OPTIMA7 Biogas (Serial No. 331555)	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 Castle Peak Road Diversion under EP-466/2013/A, Kwu Tung North New Development Area Road D1 to D5 under EP-468/2013/A, and 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. 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, construction vibration monitoring was conducted for built heritage features at FL02 and HKT03 when 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)
EP-466/2013/A and EP-468/2013/A	ND/2019/02	HKT03	Entrance Gate	Home of Loving Faithfulness (Entrance Gate)
EP-473/2013/A	ND/2019/05	FL02	Grave	Northwest side of Shung Him Tong Tsuen, at the hillside behind On Lok Garden

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
EP-466/2013/A and EP-468/2013/A	ND/2019/02	HKT03	Within 50m	Daily assessment is required
			Within 75m	Bi-daily assessment is required
EP-473/2013/A	ND/2019/05	FL02	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, KT57, HFL05, HFL08, 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 was conducted throughout each event of the pile driving operation on a daily 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 Copies of calibration certificates of the monitoring equipment employed by the Contractor of the construction vibration monitoring are attached in **Appendix C**.

Results and Observations

8.7 In the reporting month, construction vibration monitoring was carried out by the Contractor for the built heritage features at FL02 and HKT03 on a daily basis when pile driving operation was conducted within 50m of the construction work. No Limit Level exceedance for construction vibration monitoring was recorded in the reporting month. The monitoring results 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.

Table 8.3 Vibration Limits 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	

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

8.9 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.

Date of avifauna monitoring: 2, 5, 6, 15, 16, 19, 21, 29 and 30 June 2023

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, 48 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 14 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices L1k and L1l** 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.

9.14 Construction 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* 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* and *Egretta garzetta* were commonly found feeding and roosting along the Ng Tung River. Fishing activities were observed at both T1 and T2. Potential anthropogenic sources of disturbance observed along T1 and T2 including the usage of remote control boats.

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	73	19	13	9
Mean abundance of *Ardeola bacchus* using Ng Tung River, Sheung Yue River and Shek Sheung River	24	11	8	6
Mean Abundance of Bird recorded in LVNP	370.6	440	308	220
Mean Abundance of *Ardeola bacchus* recorded in LVNP	15.6	21	15	11
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 during wet season. Three replicates for invertebrates sampling and direct counting of fish fauna were performed respectively.

Date of aquatic fauna monitoring: 20th June 2023

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 23 aquatic invertebrate species were recorded in Ma Tso Lung Stream and Siu Hang San Tsuen Stream. There were 7 fish species recorded in the reporting month. 2 species of conservation importance, *Parazacco spilurus* and *Oreochromis mossambicus*, was recorded. *Parazacco spilurus* is a native species whilst *Oreochromis mossambicus* is an introduced species.

9.29 For the monitoring on 20th June 2023, 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	2	3	2	1
MS_04, MS_06 & MS_07	7	3	2	1
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	4	3	2	1
MS_11	0	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	3	1	NA	NA
MS_15	0	0	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	2	3	2	1
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	2	0	NA	NA
MS_11	0	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	1	0	NA	NA
MS_15	2	1	NA	NA

9.32 No Action or 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 Amphibian surveys should be conducted whenever possible on evenings 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 bases.

Date of monitoring surveys of ecological sensitive receivers: 14, 23 June 2023

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 5 mammal species were recorded from transects. Two species of conservation importance were recorded, namely *Cynopterus sphinx* and *Pipistrellus abramus.*

9.45 Domestic dogs, *Canis lupus familiaris*, were commonly found at transect T1, T3, T4 and T6, where associated with human settlements, whilst domestic cats, *Felis catus*, were found at T1.

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, *Cynopterus sphinx* was observed roosting in the tent-shaped shelter under fronds of Chinese Fan-palm during the monitoring at T1. *Pipistrellus abramus* was recorded in flight at nighttime at all transect.

Herpetofauna (Amphibians and Reptiles)

9.50 Among the transects, a total of 9 herpetofauna species were observed. One (1) species of

conservation importance was recorded, namely *Hoplobatrachus rugulosus*. Species including toads, frogs, and geckos were recorded near wetland habitats and watercourse. Transects T1 and T5 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

9.51 During the insect survey, a total of 51 butterfly species were recorded from transects. 2 species of butterfly recorded was of particular conservation interest, namely *Euripus nyctelius* and *Charaxes marmax*. Transect T1 had recorded the highest butterfly diversity among all transects.

9.52 17 species of odonata were recorded in the reporting month. One (1) species recorded was of particular conservation interest, namely *Potamarcha congener*. Transect T1 had recorded the highest butterfly diversity among all transect.

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 L2 to L5**.

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	Action Level	Limit Level
T1	3	1	NA	NA
T3	1	0	NA	NA
T4	1	0	NA	NA
T5	1	1	NA	NA
T6	1	1	NA	NA

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	Action Level	Limit Level
T1	7	8	6	4
T3	4	6	4	3
T4	3	4	3	2
T5	7	8	6	4
T6	4	5	4	3

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	Action Level	Limit Level
T1	40	14	10	7
T3	10	6	4	3
T4	19	8	6	4
T5	17	10	7	5
T6	20	13	9	7

9.57 **Table 9.7** summarises the herpetofauna 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	Action Level	Limit Level
T1	13	10	7	5
T3	1	8	6	4
T4	5	6	4	3
T5	8	10	7	5
T6	4	6	4	3

9.58 One (1) Action Level exceedance and one (1) Limit Level exceedance was recorded in non-aquatic fauna monitoring during the reporting month.

9.59 For the monitoring conducted on 23 June 2023 at Transect T5, a section of the transect route was found located within a private property and hence not accessible. Another section of transect T5 was found blocked by a new accumulation of fallen trees. The inaccessible part are shown in **Photo 1** and **Photo 2** below. The adjusted accessible transect route is shown in **Figure 11**.

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

Photo 2. Inaccessible part of transect T5 blocked by fallen trees.

Results and Observation

Action and Limit Level Exceedance

9.60 One (1) action level exceedance and one (1) limit level exceedance for odonata were recorded at T3. The exceedance was considered non-project related, as large proportion of vegetative habitat along T3 were observed either removed or tarmacked as haul road by construction works outside of project, first reported in the Monthly Monitoring Report in December 2021.

Details of the Influencing Factors

Major Activities

9.61 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 in Long Valley. Construction works were observed beside Sheung Yue River.

9.62 The anthropogenic activities affected only a small area of the habitat in Long Valley during monitoring and would only pose minor disturbances to the birds..

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

9.64 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

9.65 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: http://www.weather.gov.hk/wxinfo/pastwx/metob202306.htm), weather conditions might pose influence towards the monitoring results.

9.66 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	6, 14, 20 and 27 Jun 23	9, 12, 21 and 28 Jun 23	2, 9, 16, 20 and 30 Jun 23	1, 8, 14, 21 and 29 Jun 23	5, 15, 19 and 26 Jun 23	1, 8, 14, 21 and 29 Jun 23	2, 9, 16, 19 and 30 Jun 23
Joint Site Audit with representative of the *Supervisor's* Representative, the Contractor and IEC	20 Jun 23	12 Jun 23	20 Jun 23	14 Jun 23	15 Jun 23	N/A	19 Jun 23

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**.

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. The outstanding installation works were the short-duration works which would be completed within 2 months during the 1-year defect correction period, originally estimated.

10.4 Due to problems in material deliveries from Mainland China in 2022, the completion date of the outstanding works would be extended to June 2023 tentatively. In the reporting month (June 2023), more defects were found during the handover inspection so the rectification works will continue for another week or two. The estimated completion date would be extended once again to July 2023.

10.5 ET would record the environmental deficiency, if any, for NDTWM (EP-475/2013/A) during the whole defect correction period under Contract ND/2019/04 site inspection and would email weekly those inspection records to the Project Team of Contract ND/2019/06 for information.

Table 10.2 Observations and Recommendations during Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/01			
Permit/Licences	14/06/2023	The CNP was felling off to the ground after adverse weather at Portion 8a.	Improvement/Rectification was observed during follow-up audit session on 20 Jun 2023.
Waste/Chemical Management	20/06/2023	Accumulation of general refuse should be avoided.	Improvement/Rectification was observed during follow-up audit session on 27 Jun 2023.
Contract No.: ND/2019/02			
Water Quality	29/05/2023	The exposed slope surface should be covered by tarpaulin sheets.	Item remarked as 230609-O01. Follow-up action is needed to be review.
	09/06/2023	Debris of sediment were observed fallen off the exposed slope into nearby river. Contractor was urged to enhance water mitigation measure, cover the exposed slope with impervious sheet, to prevent further debris or runoff from entering nearby river.	Item remarked as 230612-O01. Follow-up action is needed to be review.
	12/06/2023		Improvement/Rectification was observed during follow-up audit session on 21 Jun 2023.
Waste/Chemical Management	09/06/2023	Breaker should be placed on top of tarpaulin sheet to prevent land contamination from potential oil leakage.	Item remarked as 230612-R01. Follow-up action is needed to be review.
	12/06/2023		Improvement/Rectification was observed during follow-up audit session on 21 Jun 2023.
Landscape and Visual	12/06/2023	Retained trees should be carefully protected. Contractor was reminded to set up a proper tree protection zone to prevent construction material to be placed on the roots of retained trees.	Improvement/Rectification was observed during follow-up audit session on 21 Jun 2023.
Contract No.: ND/2019/03			
Air Quality	22/05/2023	Dusty stockpiles should be covered with tarpaulin sheets.	Item remarked as 230602-R02. Follow-up action is needed to be review.
	02/06/2023		Item remarked as 230609-R01. Follow-up action is needed to be review.
	09/06/2023		Item remarked as 230616-R01. Follow-up action is needed to be review.
	16/06/2023		Item remarked as 230620-R01. Follow-up action is needed to be review.
	20/06/2023		Item remarked as 230630-R01. Follow-up action is needed to be review.
	30/06/2023		Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	22/05/2023	Provide adequate wheel-washing facilities for each vehicle exits, suitable for the current temporary traffic arrangement, and ensure that vehicles are properly washed before leaving the site.	Item remarked as 230602-O01. Follow-up action is needed to be review.
	02/06/2023		Item remarked as 230609-O01. Follow-up action is needed to be review.
	09/06/2023		Item remarked as 230616-O01. Follow-up action is needed to be review.
	16/06/2023	Provide adequate wheel-washing facilities for each vehicle exits.	Item remarked as 230620-O01. Follow-up action is needed to be review.
	20/06/2023		Item remarked as 230630-O01. Follow-up action is needed to be review.
	30/06/2023		Follow-up action is needed to be reported in the following month.
	16/06/2023	Provide sand bags to prevent muddy water discharge.	Item remarked as 230620-R02. Follow-up action is needed to be review.
	20/06/2023		Item remarked as 230630-R02. Follow-up action is needed to be review.
	30/06/2023		Follow-up action is needed to be reported in the following month.
Landscape & Visual	22/05/2023	Remove any construction material from tree protection zone.	Item remarked as 230602-R01. Follow-up action is needed to be review.
	02/06/2023		Improvement/Rectification was observed during follow-up audit session on 9 Jun 2023.
Contract No.: ND/2019/04			
Air Quality	25/05/2023	The idle stockpile of dusty materials at Portion K should be covered properly with tarpaulin sheet.	Item remarked as 230601-R01. Follow-up action is needed to be review.
	01/06/2023		Improvement/Rectification was observed during follow-up audit session on 8 Jun 2023.
Water Quality	01/06/2023	The sandbag bunding should be enhanced.	Item remarked as 230608-R02. Follow-up action is needed to be review.
	08/06/2023		Item remarked as 230614-R02. Follow-up action is needed to be review.
	14/06/2023		Improvement/Rectification was observed during follow-up audit session on 21 Jun 2023.

Parameters	Date	Observations and Recommendations	Follow-up
Noise	08/06/2023	The noise barrier at Bridge F should be fully enclosed.	Item remarked as 230614-R01. Follow-up action is needed to be review.
	14/06/2023		Improvement/Rectification was observed during follow-up audit session on 21 Jun 2023.
	29/06/2023		Follow-up action is needed to be reported in the following month.
Ecology	29/06/2023	Provide maintenance for 2m high solid barrier at the lower reaches of Siu Hang San Tsuen Stream.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/05			
Water Quality	05/06/2023	The earth bunding surrounding FW06 should be enhanced.	Improvement/Rectification was observed during follow-up audit session on 15 Jun 2023.
	26/06/2023	Enhance the water mitigation measure for E201.	Follow-up action is needed to be reported in the following month.
Air Quality	15/06/2023	Faded NRMM label at E2-02 should be replaced.	Improvement/Rectification was observed during follow-up audit session on 19 Jun 2023.
	26/06/2023	Provide impervious sheeting for dusty stockpile. (Man Young)	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/06			
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Contract No.: ND/2019/07			
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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 10.3.**

Table 10.3 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.	Λ[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.	Λ[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.	Λ[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.	Λ[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

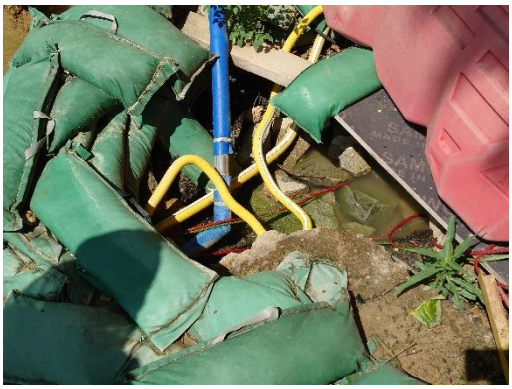
Remark:
[1]: Barrier fences might be subjected to change according to the phasing plan designed at detailed design stage

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 10.4.**

Table 10.4 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	 Hydroseeding for slope area
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	 Hard paved exposed slope surface	 Deployment of silt curtain around works area in Ng Tung River

ND/2019/05	 Covering dusty stockpile	 Provision of sand bags around works area
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/2019/03, 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.

10.9 The amount of wastes generated by the construction works of the Contract Nos. ND/2019/01, ND/2019/02, ND/2019/03, 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.

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 was expected to be completed in 2023. 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 10.5**.

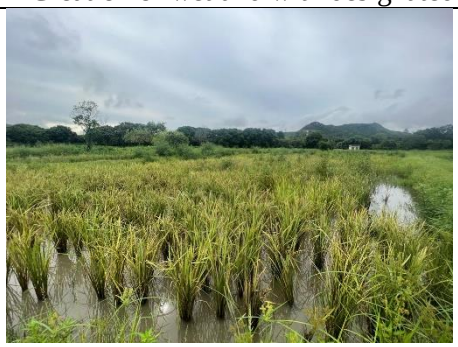
Table 10.5 Photographic Records of Site Activities in LVNP

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

A *Himantopus himantopus* was recorded

Wet agricultural land

Provision of noise barrier for noisy works in Long Valley

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

11.1 No Action/Limit Level exceedance for air quality, water quality, construction noise, ambient arsenic, built heraitage and landfill gas monitoring was recorded in the reporting month. The summary of exceedance record in the reporting month is shown in **Appendix O**.

11.2 Ecological monitoring was carried out in the reporting month. One (1) Action Level exceedance and one (1) Limit Level exceedance for odonatan monitoring were recorded. The exceedance was considered non-project related as the habitat were heavily altered due to non-project related works..

11.3 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

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

Summary of Environmental Complaint

11.5 No 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

11.6 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 (July to September 2023)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Site clearance / tree felling	Portions 1a, 1b, 1c, 2, 10b, 13	- 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** - Regular inspect of construction plants in good condition.
	(b) GI works	NIL		
	(c) Excavation	Portions 1b, 3, 5, 7, 8b, 8b, 9b		
	(d) Construction of retaining wall	Portions 8a		
	(e) Construction of hoarding / fencing	Portion 1b		
	(f) Site Formation	Portions 1c, 1e, 2, 7		
	(g) Removal of existing structure	Portions 1a, 13		
	(h) Construction of subway	Portions 2		
	(i) Operation of HAC treatment facility	Portions 6b		
	(j) Drainage works / watermains	Portions 1a, 3, 5, 6a, 7, 8a, 8b, 9b		

	(k) Road Construction	Portion 1b, 2, 5, 6a, 10b		- 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.
	(l) Trenchless	Portion 5, 8b		
	(m) Construction of reservoir	Portions 8a		
	(n) Sheet piling / ELS	Portion 1c, 5, 7, 8b, 9b		

				- 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 3	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	Portion 2, 3 & 4	Air, Noise, Waste	
	(c) Concreting	Portions 7, 8 & 10	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 3 & 5	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 3, 4, 5 & 10	Air, Noise, Water, Waste, Ecology	
	(f) Sheet Pile Installation	1.32, Portion 3, 4, CH982-1046	Air, Noise, Water, Waste	
	(g) Cut and Fill of Slope	Portion 3, 4	Air, Noise, Water, Waste	
ND/2019/03	(a) Excavation & ELS	Portion 1, 1A, 2, 3, 4, 4A, 4B, 5, 5A	- Waste - Air pollution - Noise pollution	- Dusty works should be sprayed with water or stockpile should be covered by Tarpaulin properly.
	(b) Site Clearance	Sections 7, 8 and 9	- Waste	

			- Air pollution - Noise pollution	- 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.
	(c) Tree Felling	Sections 6, 7, 8 and 9	- Waste - Air pollution - Noise pollution	
ND/2019/04	(a) Sheet piling	Portion H, F, K and Bridge A301, A303	- 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) Pile cap	Bridge A1, A2 and A3	- Air, Noise, Water, Waste	
	(c) Grouting	Bridge F, A2, A3 and Portion A, B, K, H	- Air, Noise, Water, Waste	
	(d) Bore pile	Bridge G	- Air, Noise, Water, Waste	
	(e) Excavation & ELS	Portion J, F, H, K, X, S Bridge A1, A2	- Air, Noise, Waste	
	(f) Road works	Portion J, H, Q, R, U and VY	- Air, Noise, Waste	
	(g) Pre-drilling	NIL	- Air, Noise, Water, Waste	

	(h) Tree felling	Portion U and A	- Air, Noise, Waste	
	(i) UU diversion	Portion J	- Air, Noise, Waste	
ND/2019/05	(a) ELS & Pile Cap Construction	B2-01, B2-03, D2-01	- Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual - Cultural Heritage	- 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 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.
	(b) Pier/Pier head Construction	D2-01 & B2-03; C2-04b, D2-01; E3-04a, E3-05M, E4-01 and E4-02		
	(c) Cross head construction	NIL		
	(d) Slope works	NIL		
	(e) Fabrication for segment	C2, D1, D2 & E1		
	(f) Fabrication for Form Traveler	3rd and 4th set of form traveler; 4th and 5th set of form traveler		
	(g) Construction of Abutment wall	B1		
	(h) Segment Erection by Launching Girder & Crane	bridges C4,C3; bridge D1 and E1		
	(i) SOP construction (precast & in-situ cast in type)	E3-02, D2-03, E2-01, E2-03		
	(j) T-span construction by Form Traveler	Pier E2-02, E3-03, D2-02, E3-01; D2-03, E2-03		

	(k) Installation of bridge rotation components	Pier D2-01		- 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 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.
	(l) Road construction	TWSRW, TWSRE		
	(m) Base slab construction	NB110 – bay 3~5; NB69 – bay 6~8		
	(n) Tree Works	All works areas		

				- 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, 4, 5	- 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
	(b) C&D waste disposal	Portion 1, 2, 4, 5		
	(c) Construction of box culvert	Portions 2		
	(d) Filling works	Portions 1, 2, 4		
	(e) Construction of site haul road	Portions 4		
	(f) Drainage Works	Portion 1, 3, 4, 5		
	(g) Sewerage works	Portion 1, 3, 4, 5		
	(h) Construction of Noise Barrier	Portion 5		
	(i) Mini piling works	Portion 4		
	(j) Waterworks	Portion 1, 4		

				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. - 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 June 2023 in accordance with the Updated EM&A Manual.

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

13.3 One (1) action level exceedance and one (1) limit level exceedance for odonata were recorded.

Contract No. ND/2019/01

13.4 Environmental site inspections were conducted on 6, 14, 20 and 27 Jun 23 by ET in the reporting month.

Contract No. ND/2019/02

13.5 Environmental site inspections were conducted on 9, 12, 21 and 28 Jun 23 by ET in the reporting month.

Contract No. ND/2019/03

13.6 Environmental site inspections were conducted on 2, 9, 16, 20 and 30 Jun 23 by ET in the reporting month.

Contract No. ND/2019/04

13.7 Environmental site inspections were conducted on 1, 8, 14, 21 and 29 Jun 23 by ET in the reporting month.

Contract No. ND/2019/05

13.8 Environmental site inspections were conducted on 5, 15, 19 and 26 Jun 23 by ET in the reporting month.

Contract No. ND/2019/06

13.9 Environmental site inspections were conducted on 1, 8, 14, 21 and 29 Jun 23 by ET in the reporting month.

Contract No. ND/2019/07

13.10 Environmental site inspections were conducted on 2, 9, 16, 19 and 30 Jun 23 by ET in the reporting month.

13.11 No environmental complaints 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.

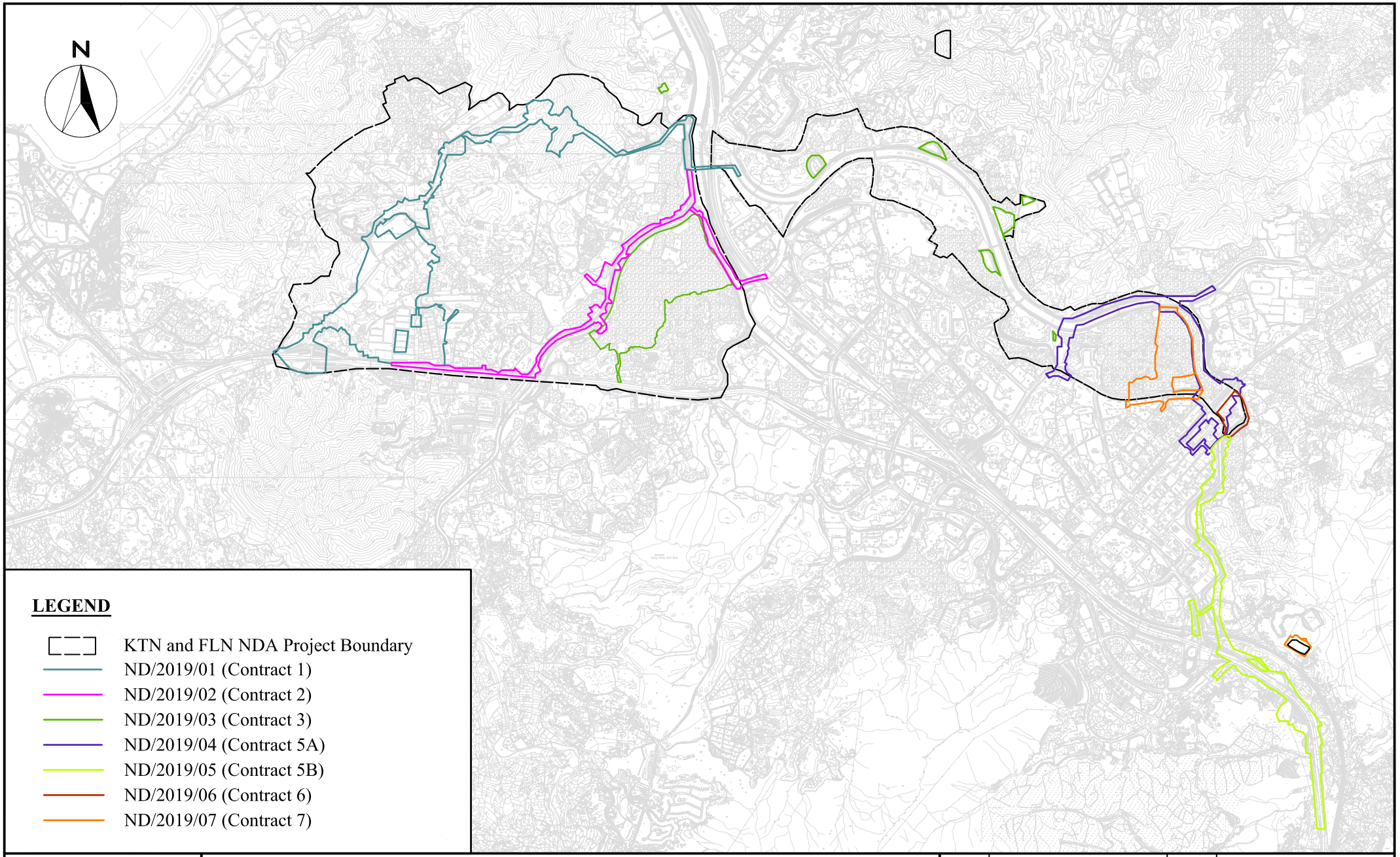
Ecology

- 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)



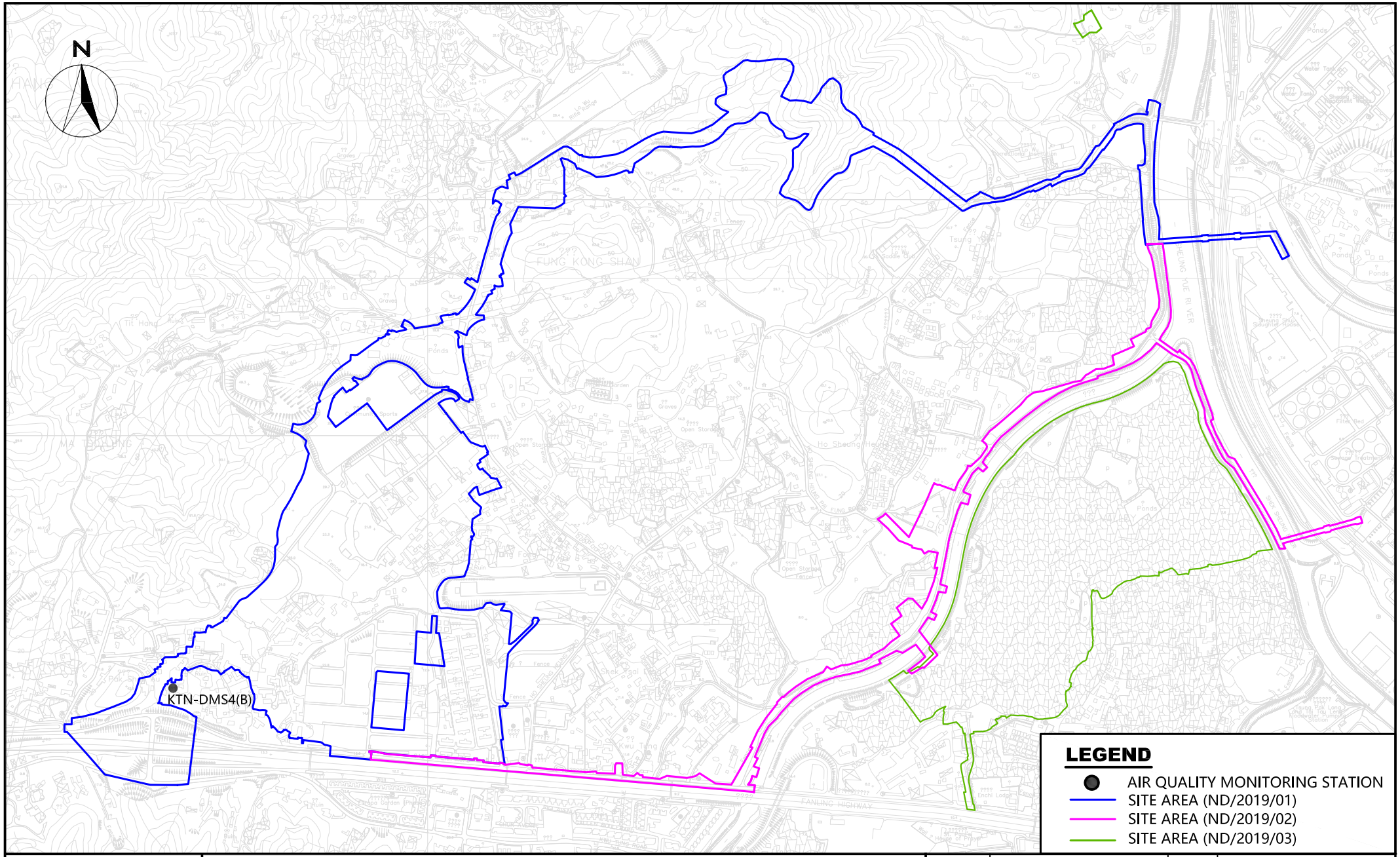
WELLAB 匯力
consulting . testing . research

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)



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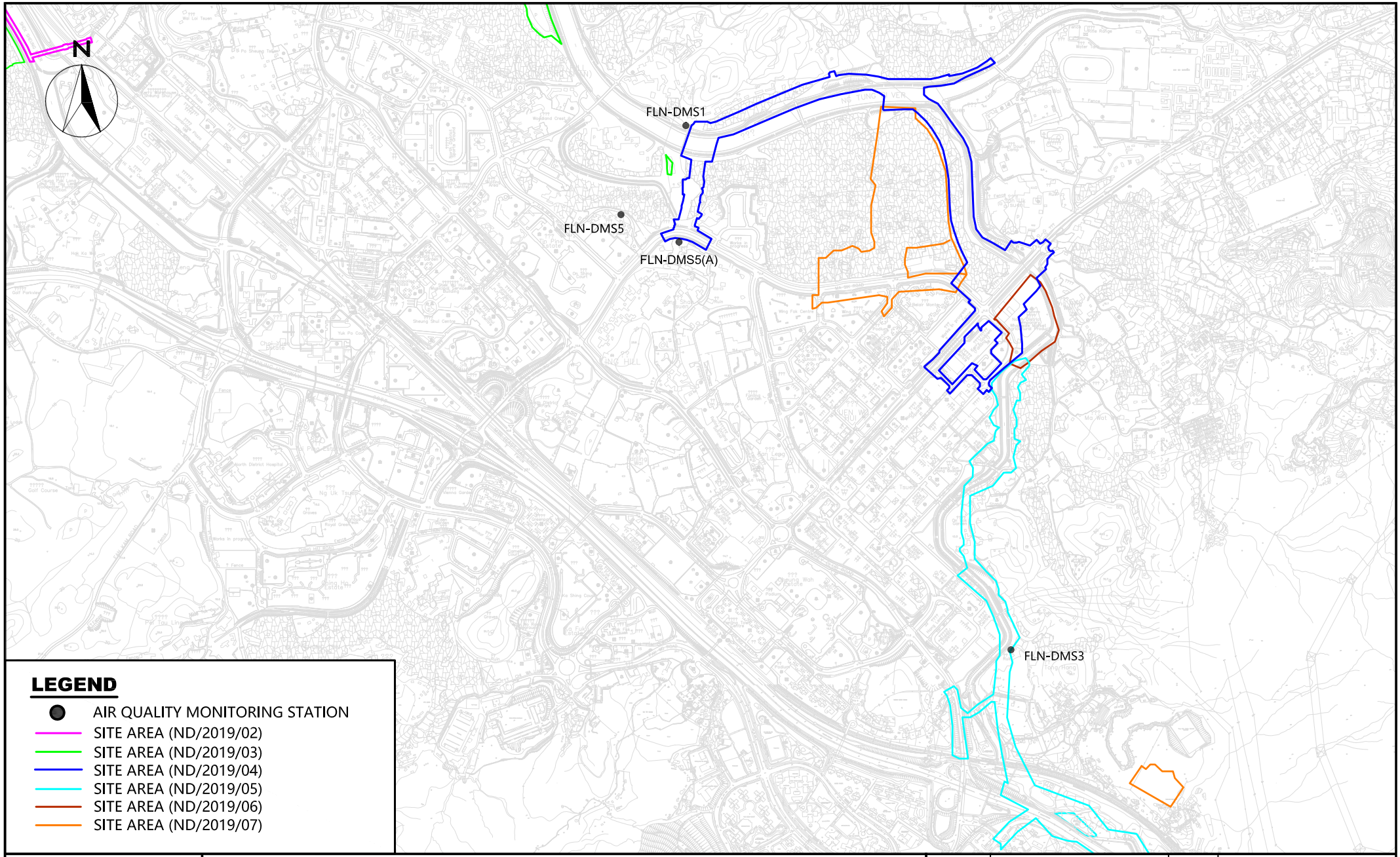
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

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 —



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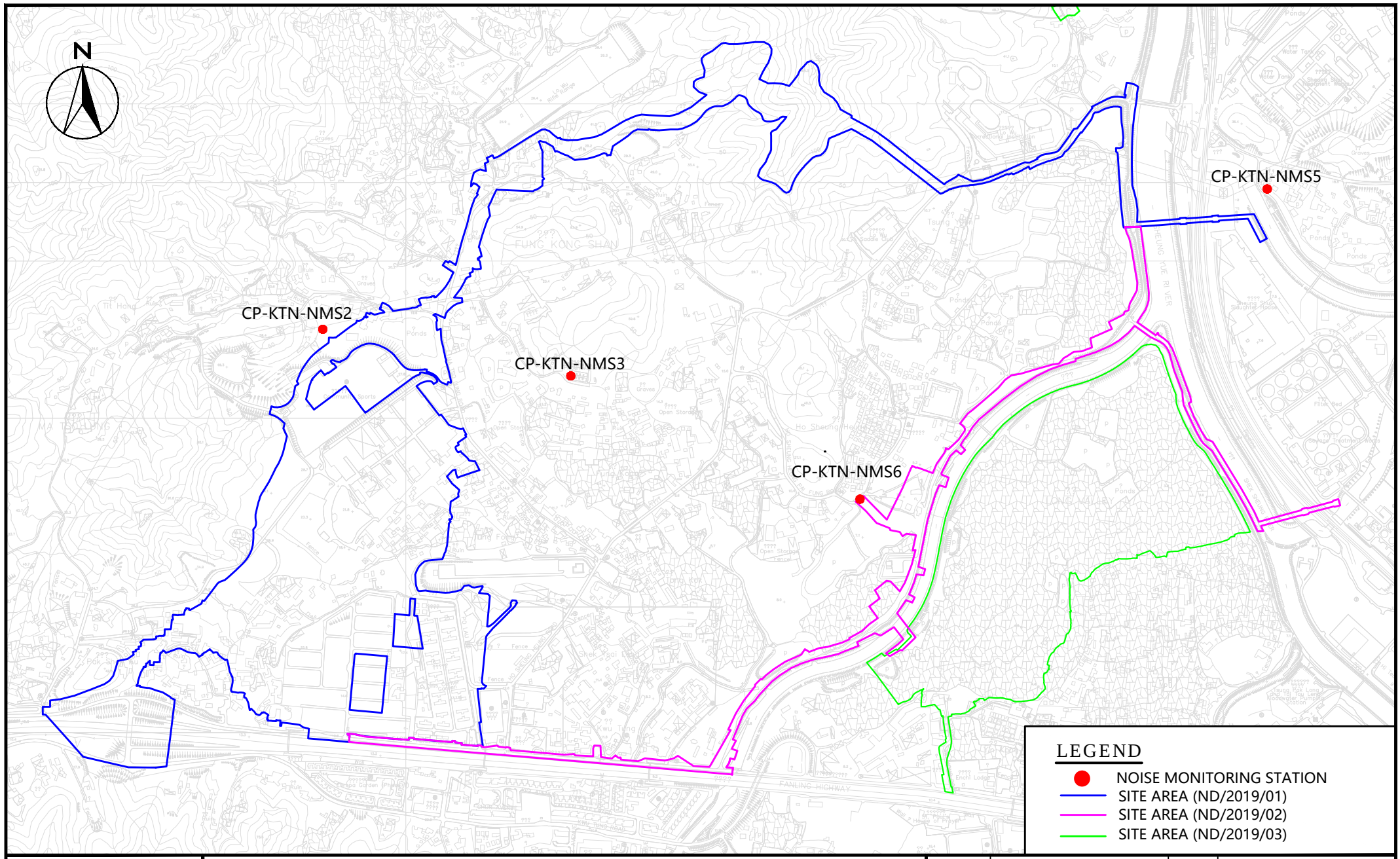
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

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	—



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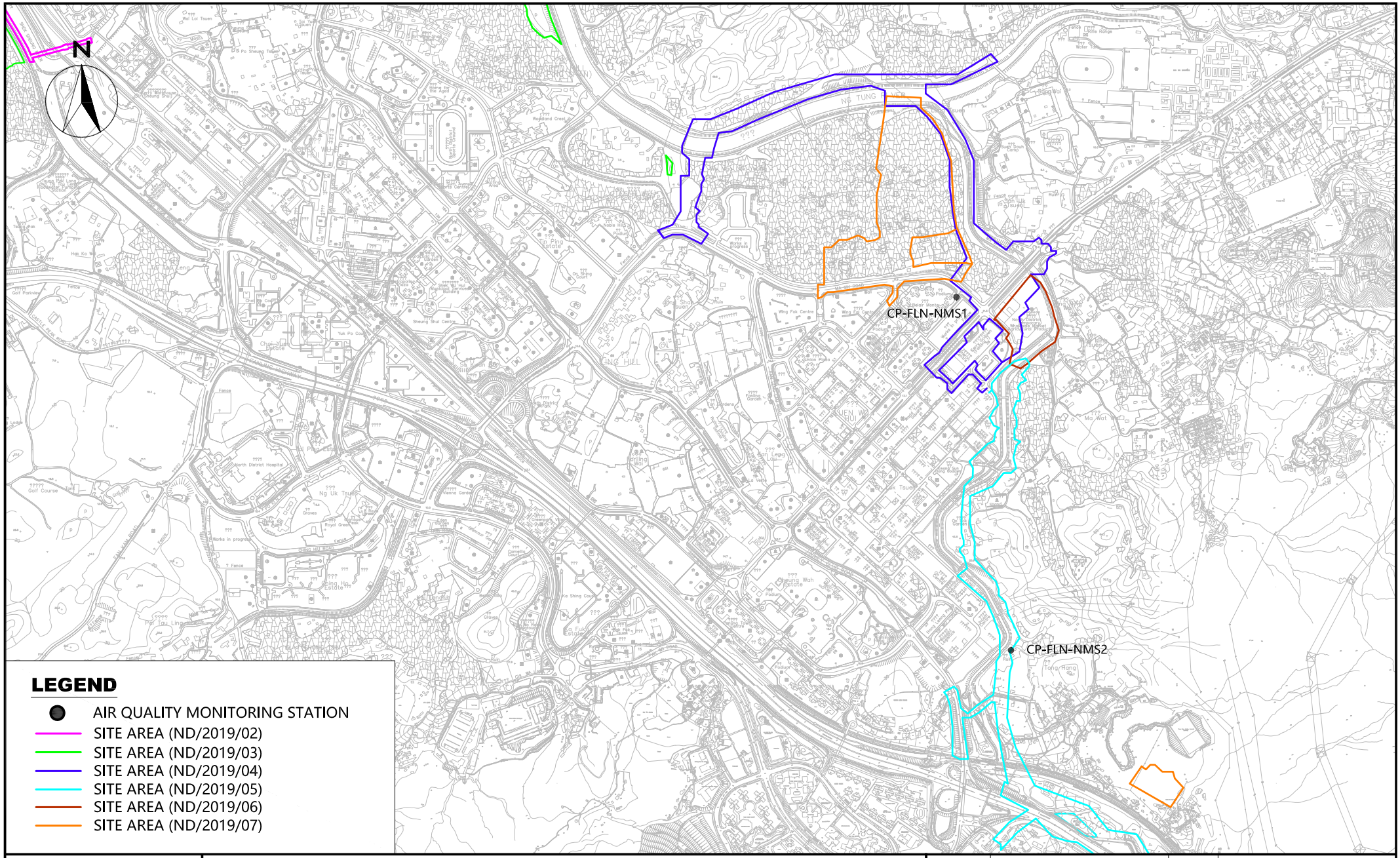
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Station (KTN)

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



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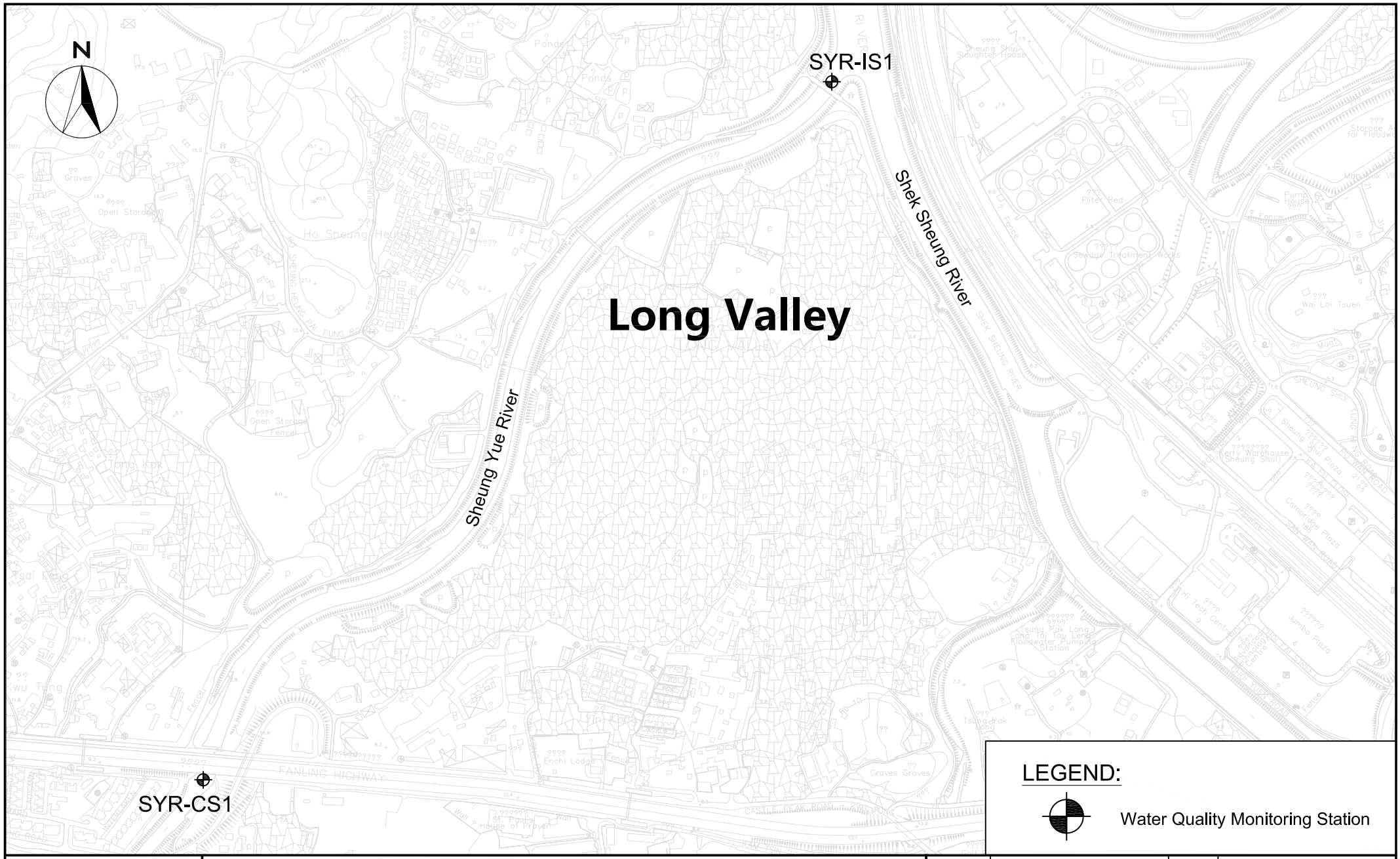
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Stations (FLN)

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



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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 —

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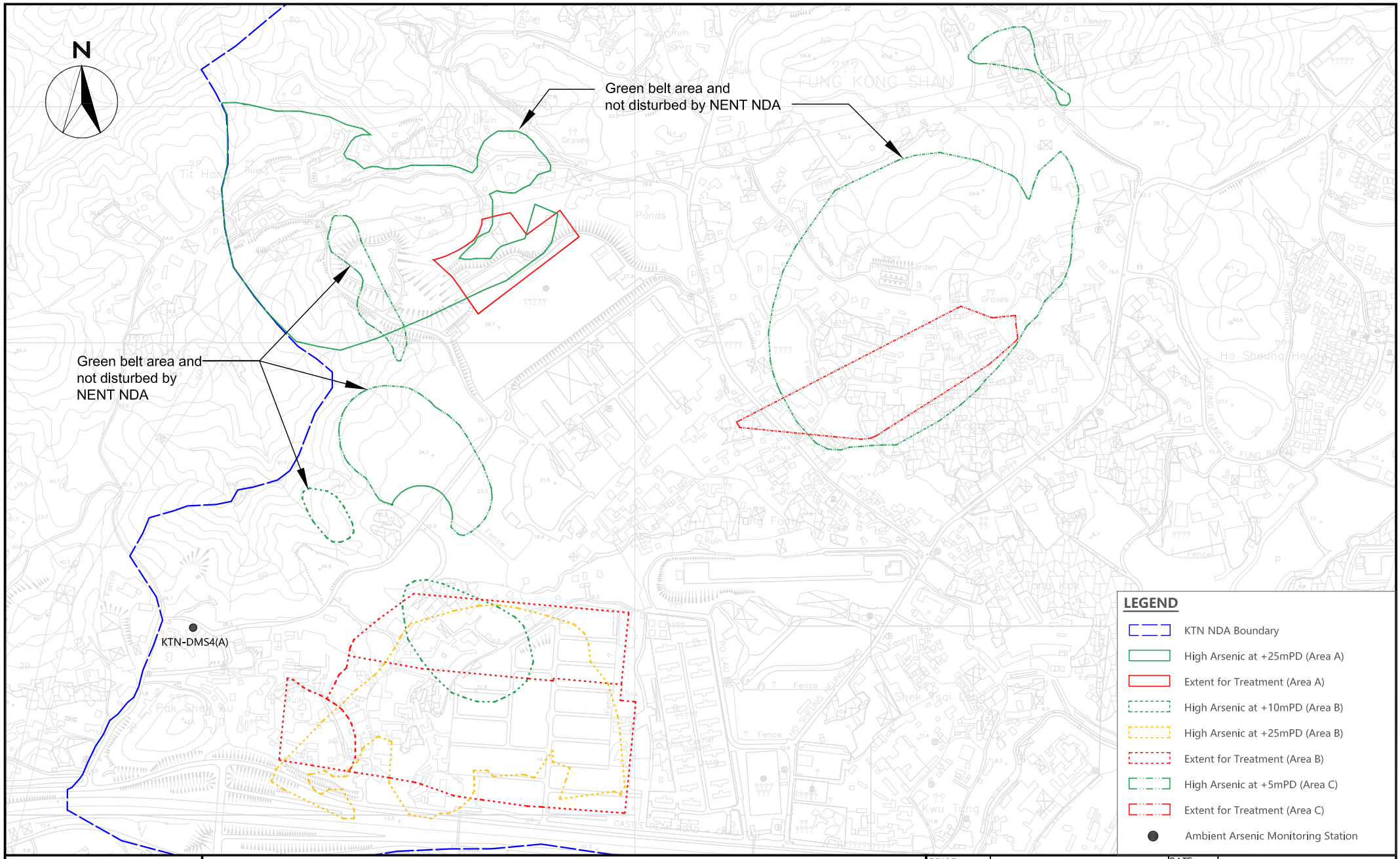
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

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 —



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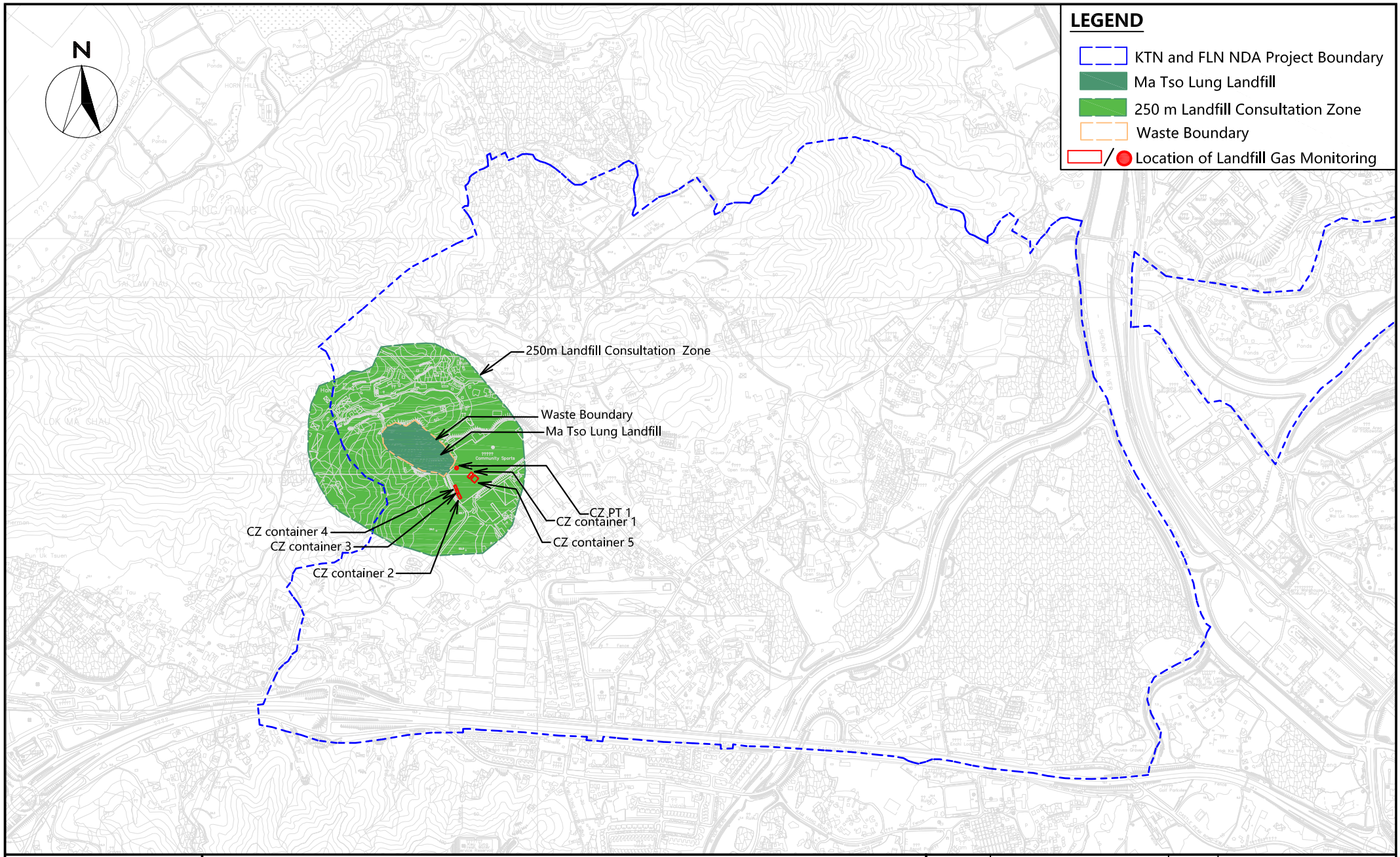
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Ambient Arsenic Monitoring Station

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



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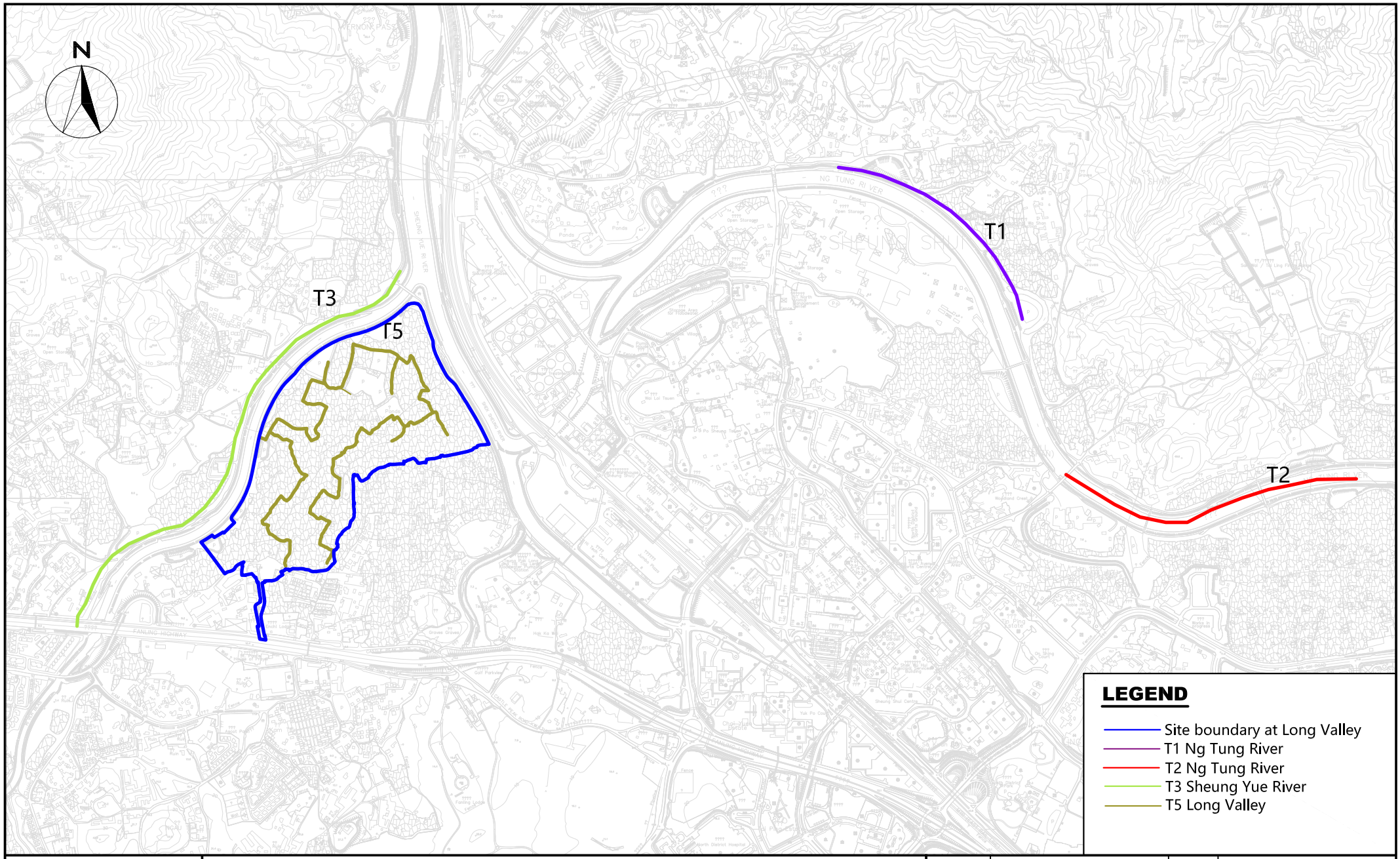
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Landfill Gas Monitoring

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



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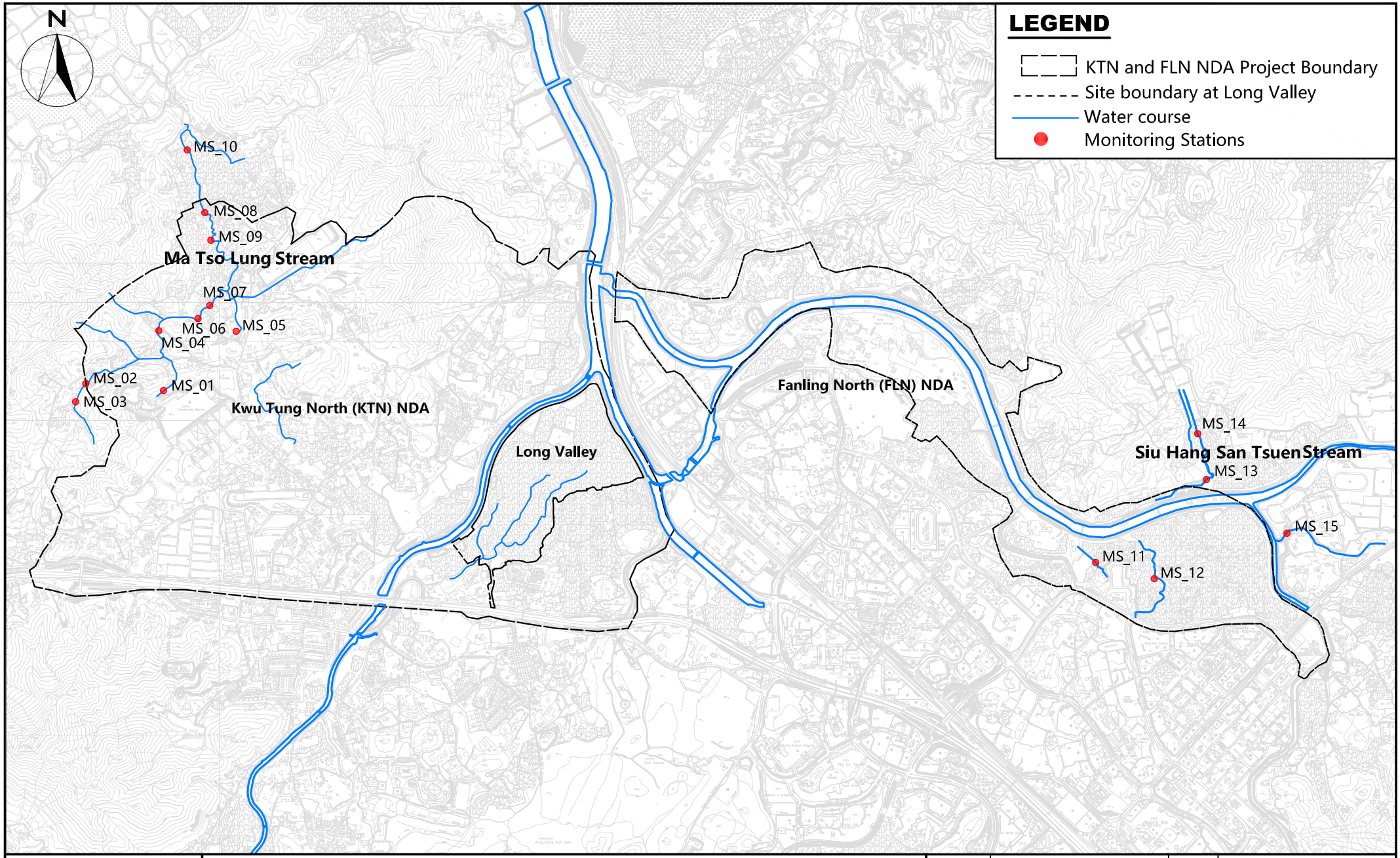
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

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 —



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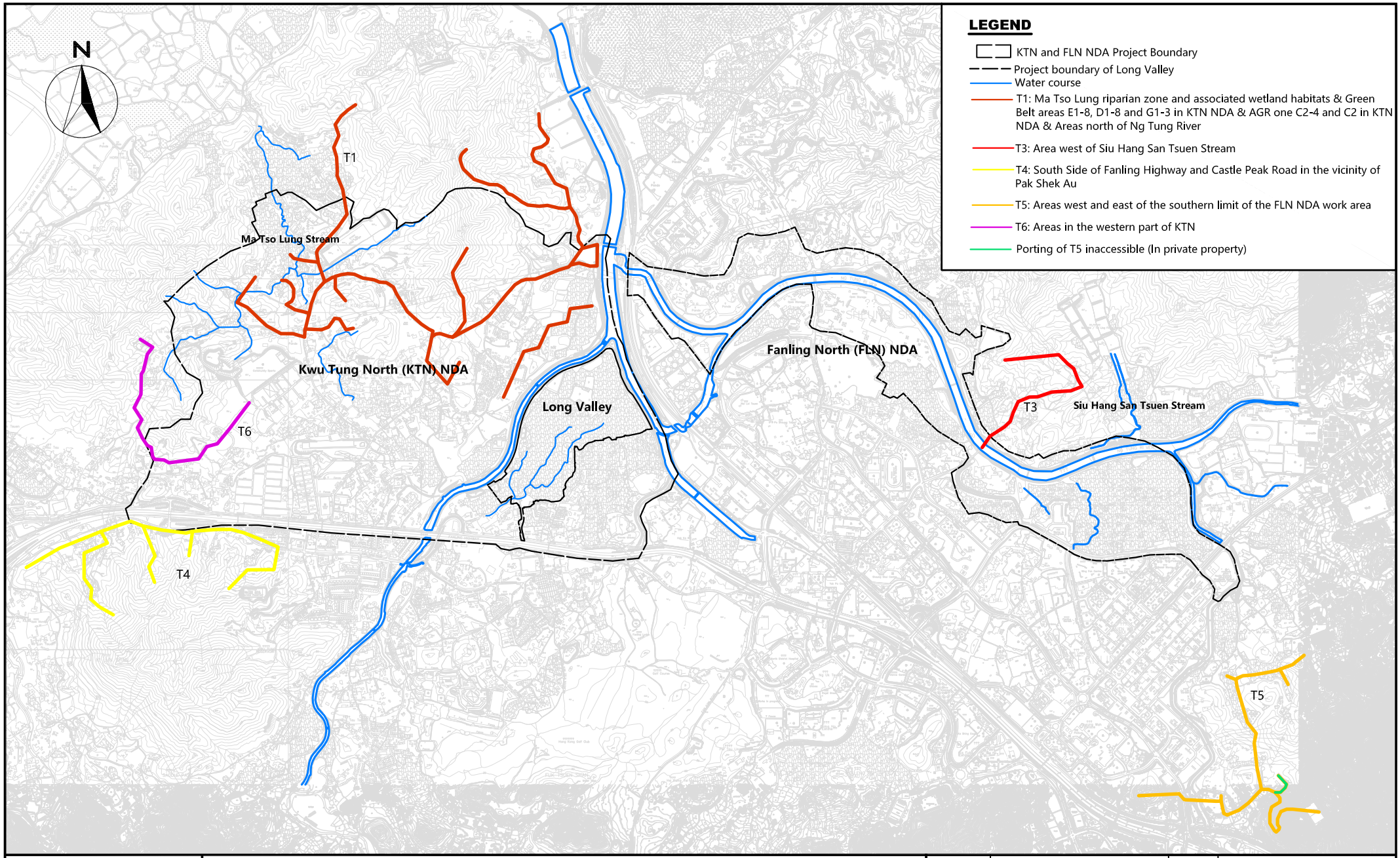
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

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 —



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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

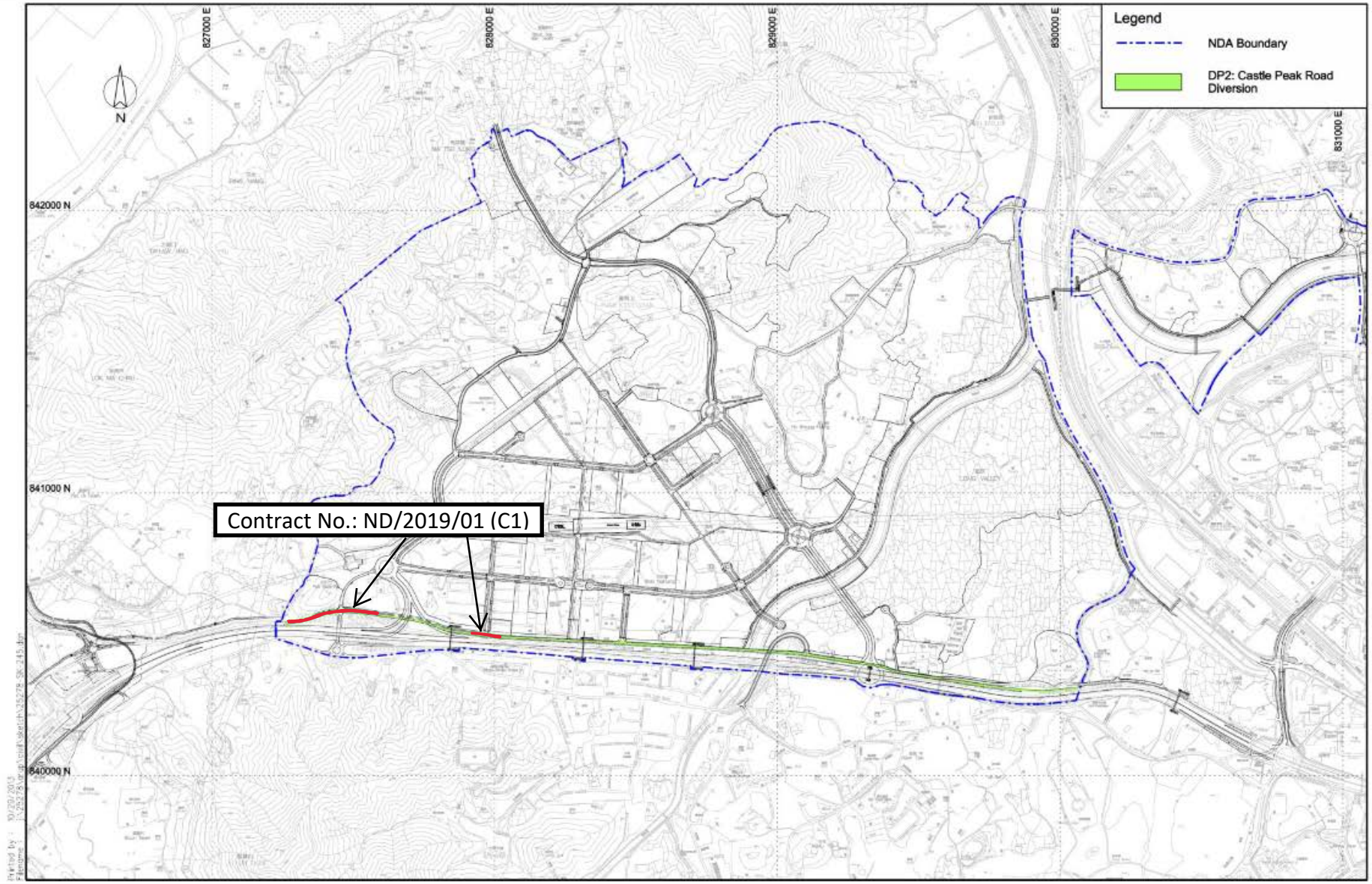
Location of Transect Route of Ecological Sensitive Habitats (Non-Aquatic Fauna) Transects (T1, T3-T6)

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

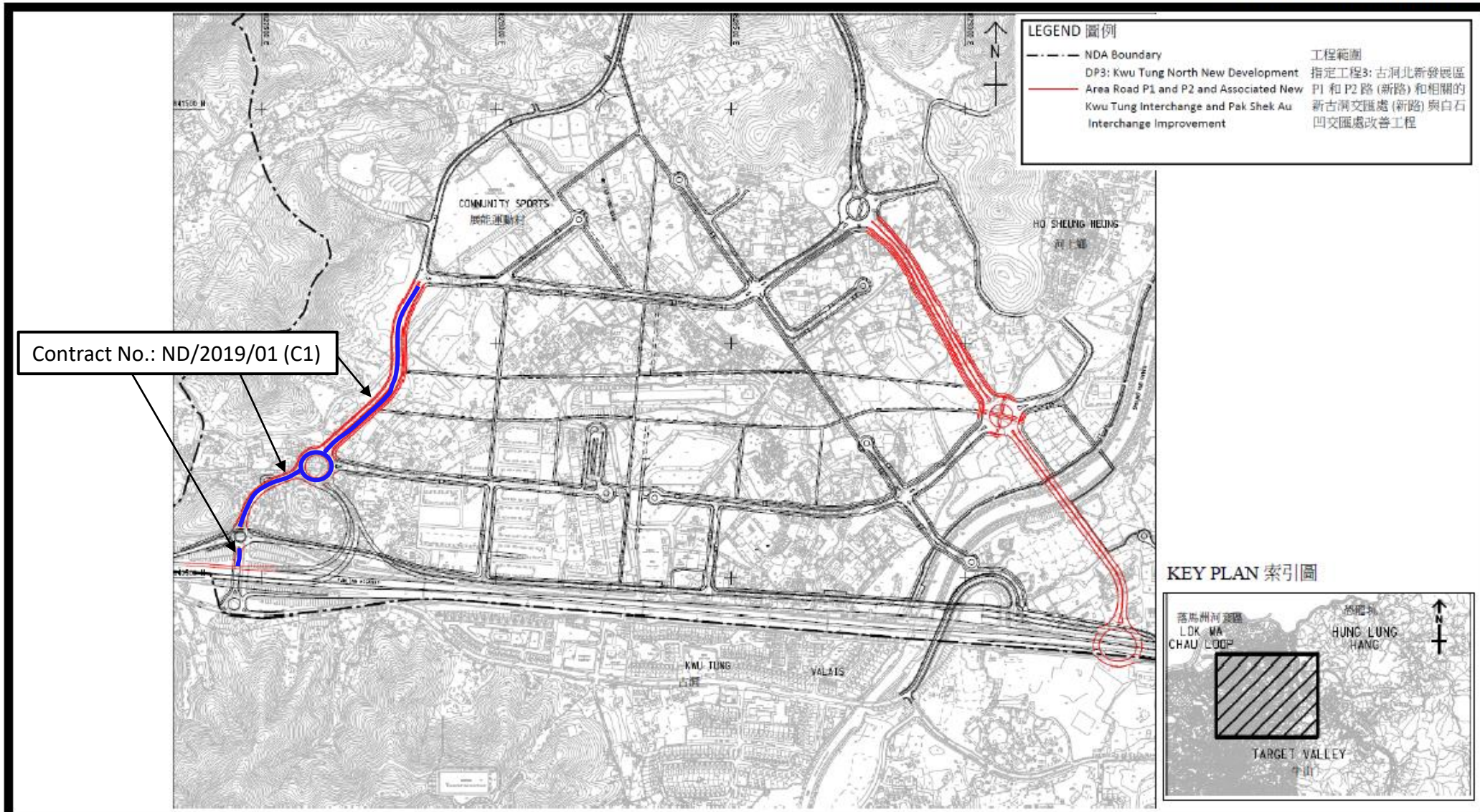
(Extracted from Drawing No. SK/245 of North East New Territories New Development Area Planning and Engineering Study)

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))

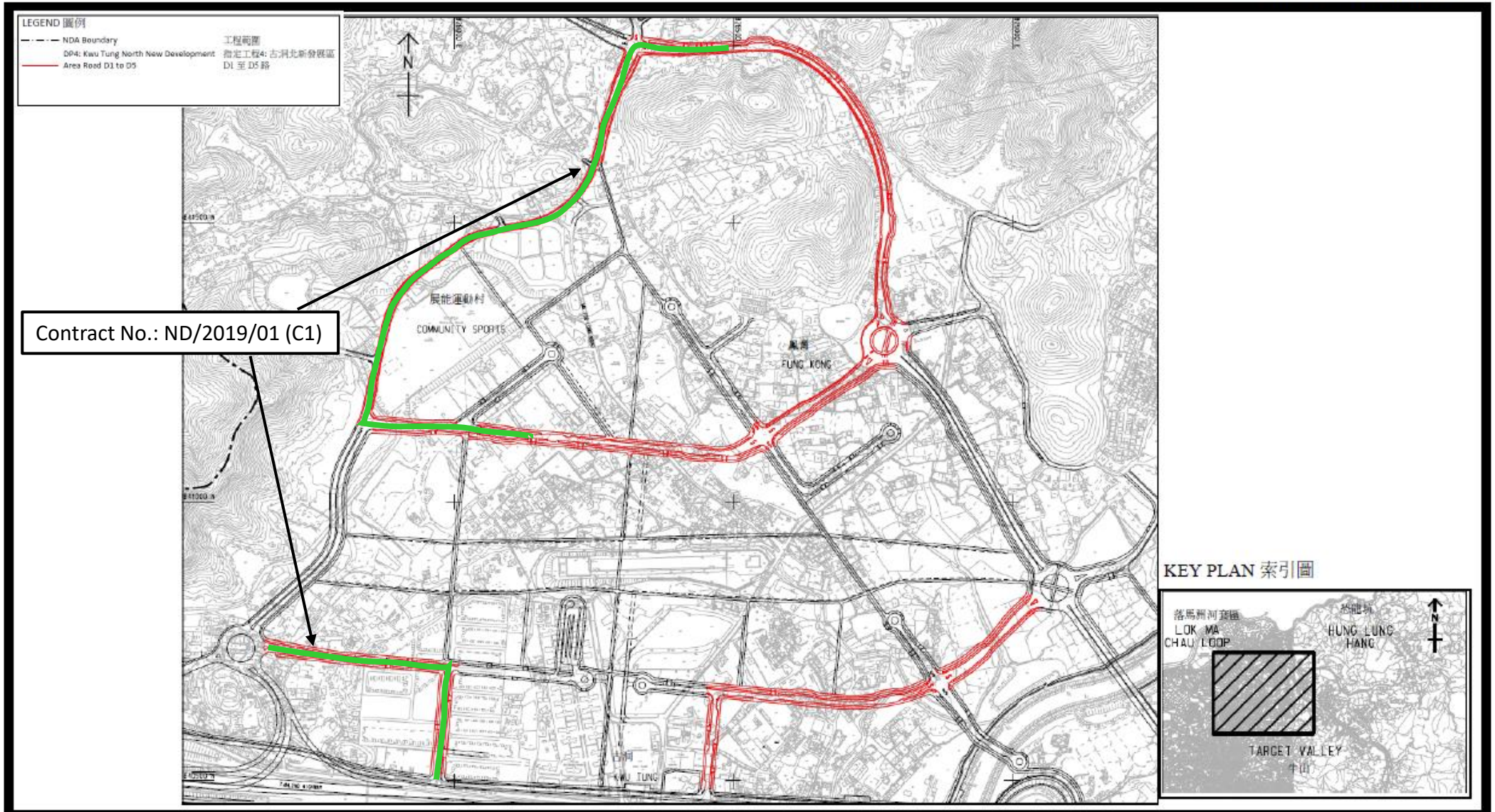
圖1：交匯處改善工程位置 (示意圖)
(本圖是根據申請更改環境許可證(編號: VEP-523/2016)圖1.2編制)

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

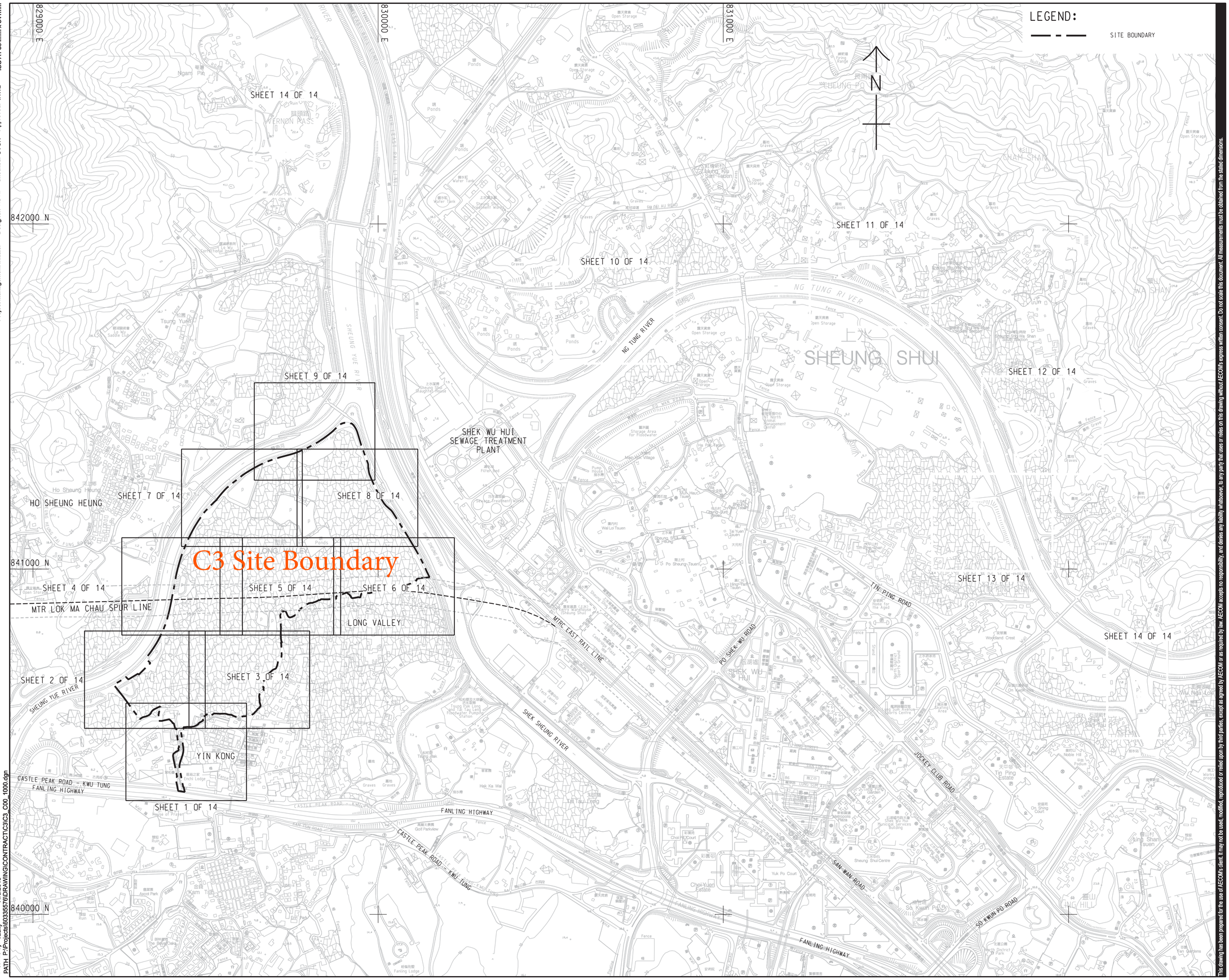
Figure 15

Site Layout Plan of Contract ND/2019/03

under EP-468-2013-A

ISO A1 594mm x 841mm

Project Management Initials: Designer: KCTL Checked: CYCH Approved: IHWL



Sang Hing - Kuly Venture

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

CLIENT
業主

CEDD 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

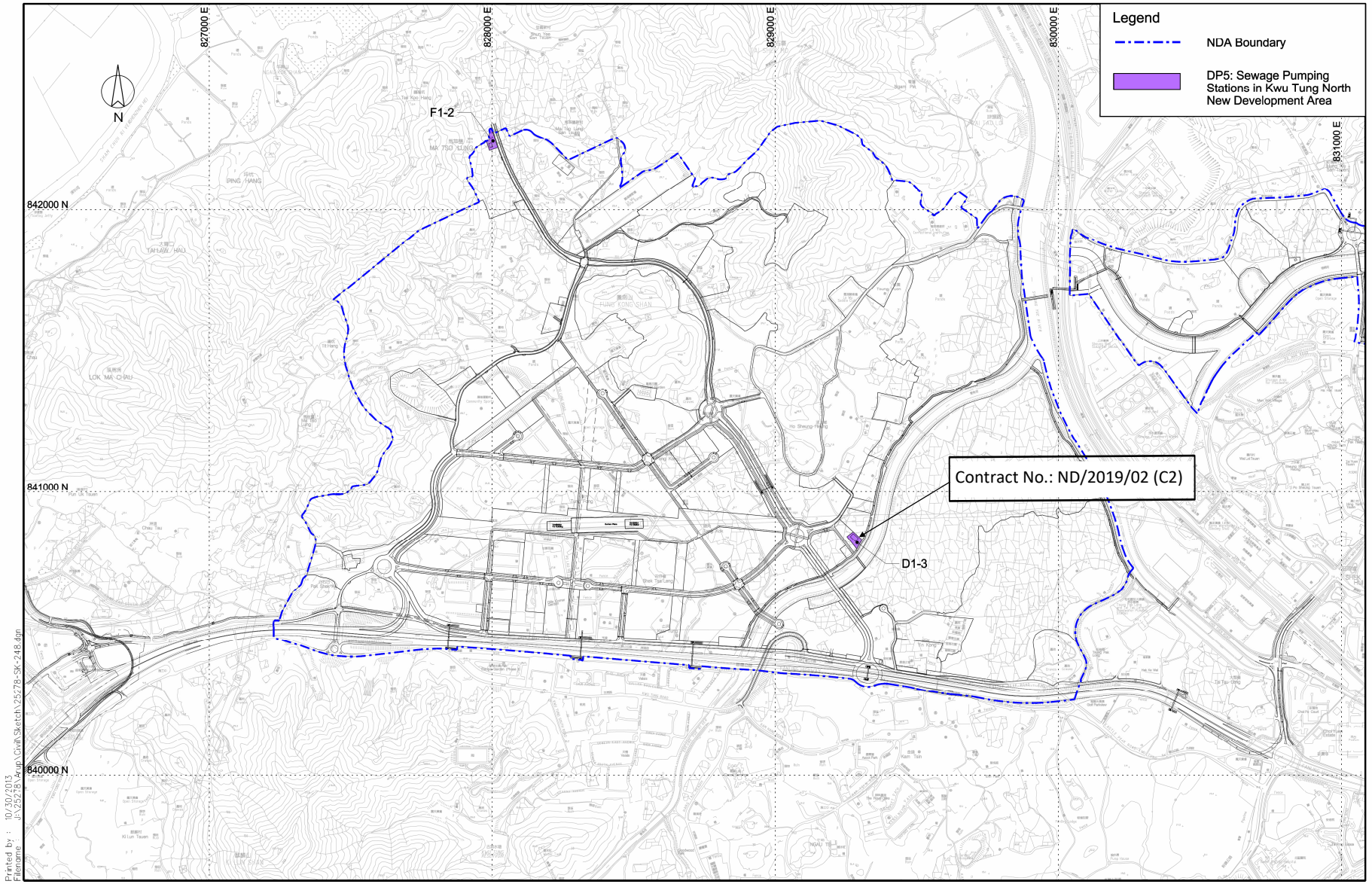
SHEET NUMBER
圖紙編號
60335576/C3/C00/1000

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

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

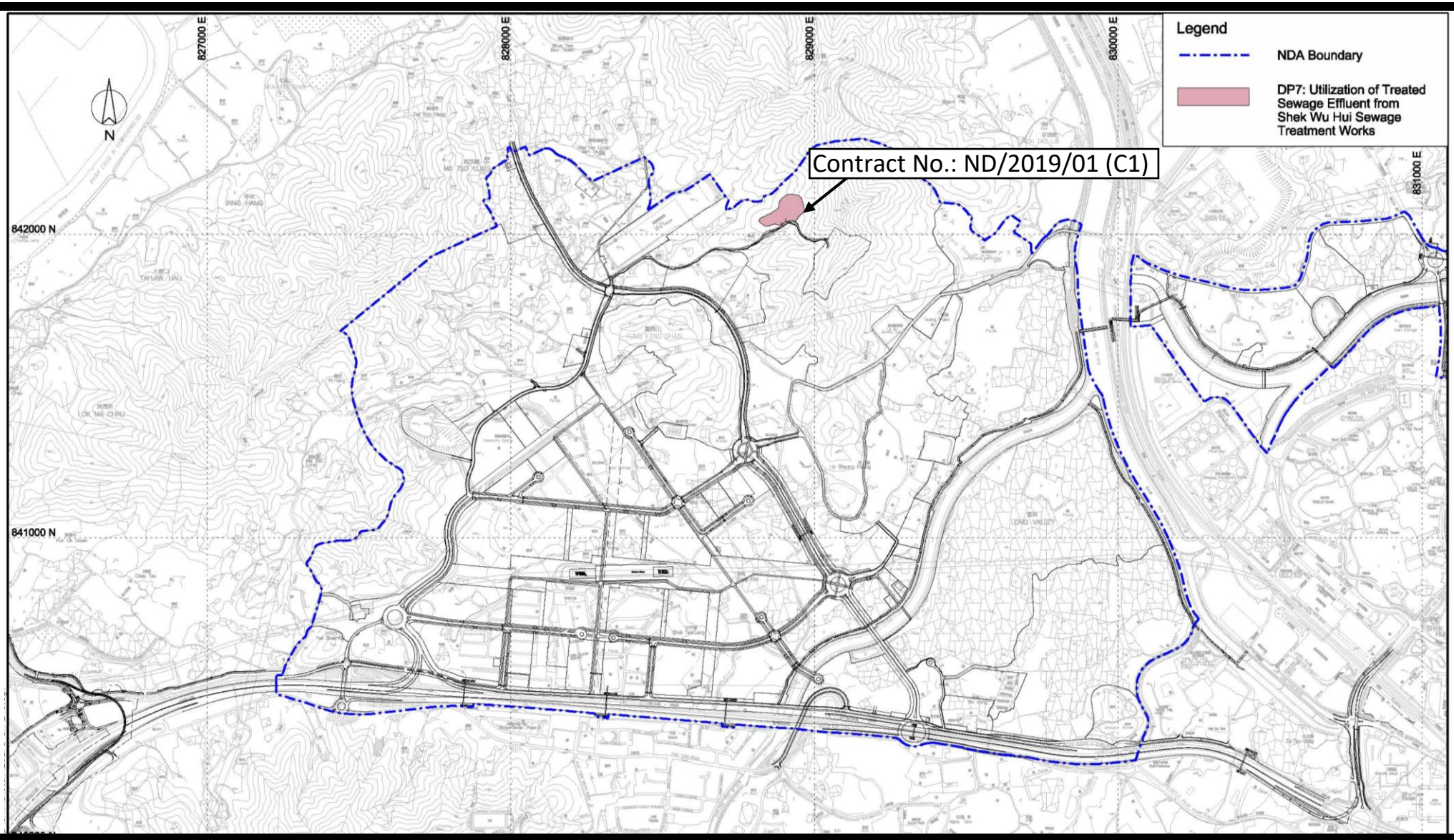
(Extracted from Drawing No. SK/248 of North East New Territories New Development Area Planning and Engineering Study)

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

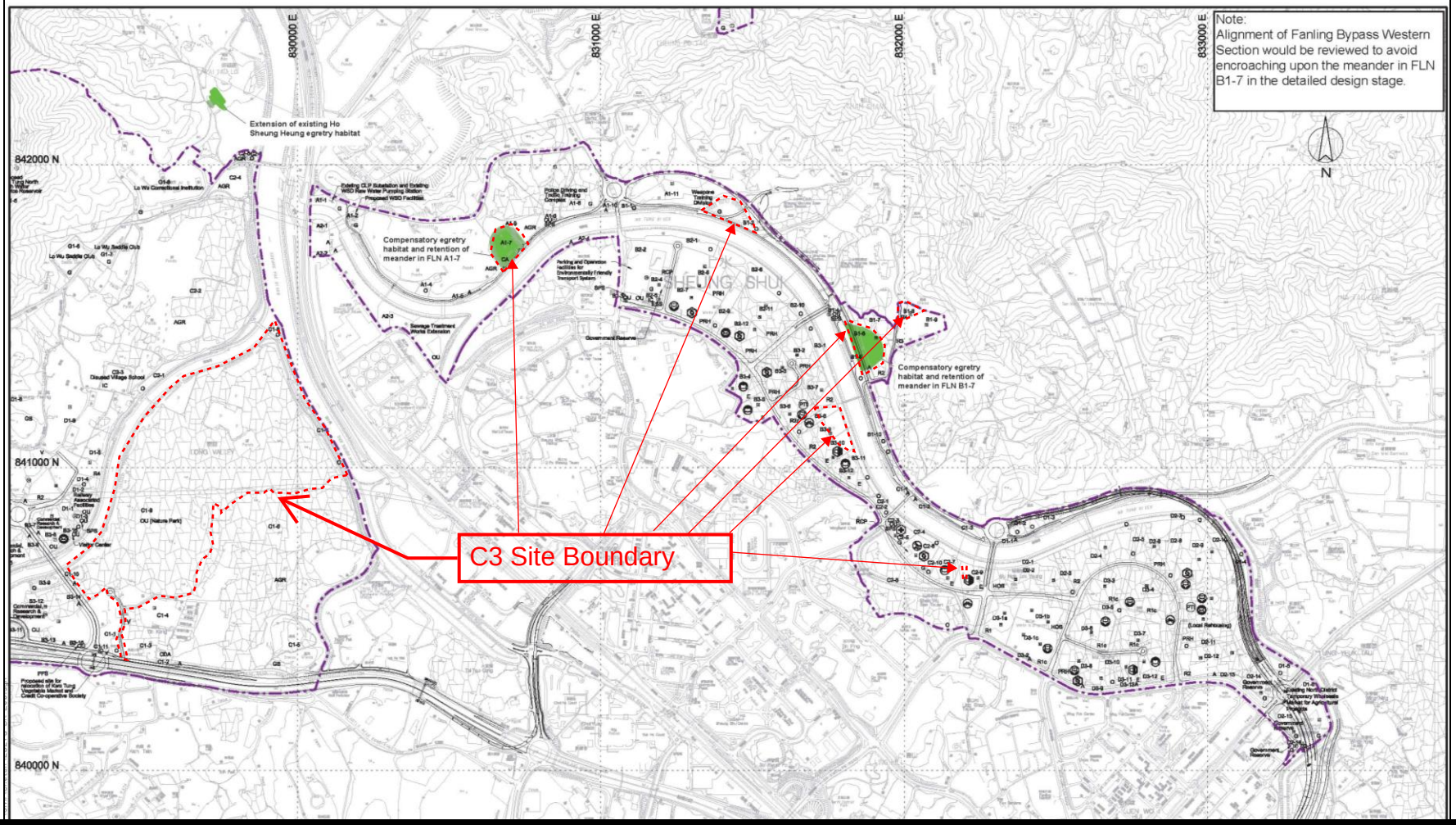
(Extracted from Drawing No. SK/249 of North East New Territories New Development Area Planning and Engineering Study)

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)

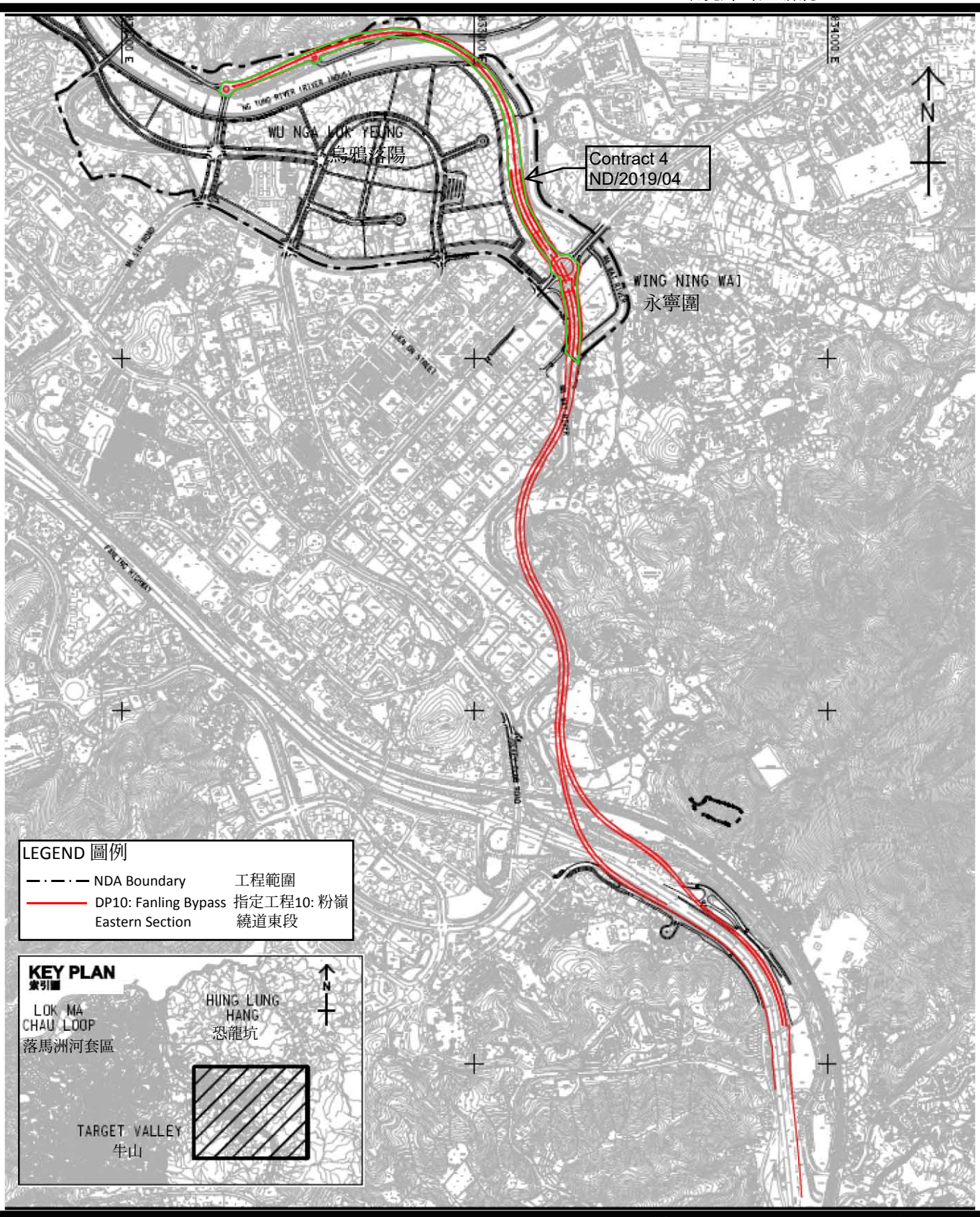
(摘錄自新界東北新發展區規劃及工程研究 圖: SK/254)

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)

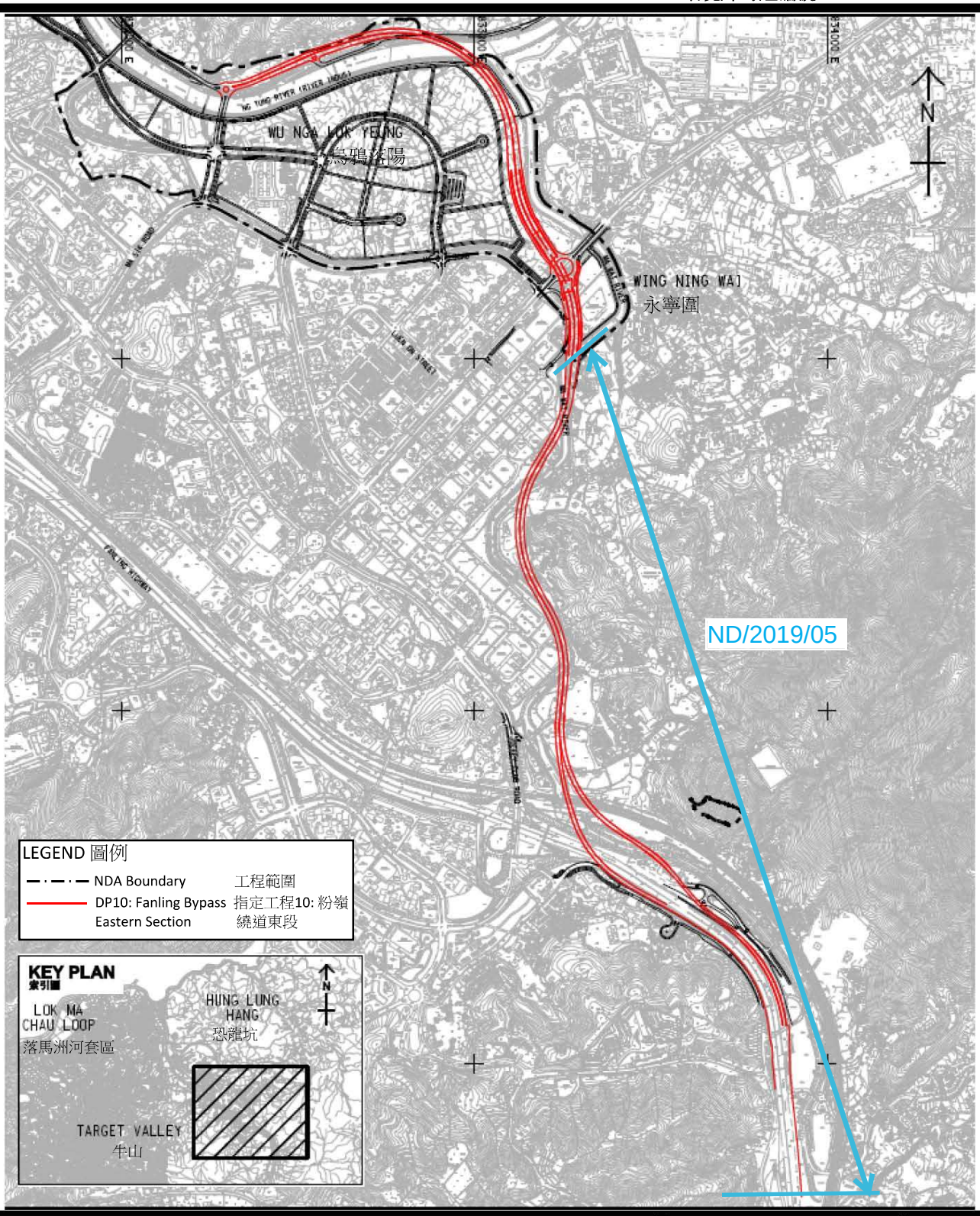
This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)
本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

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)

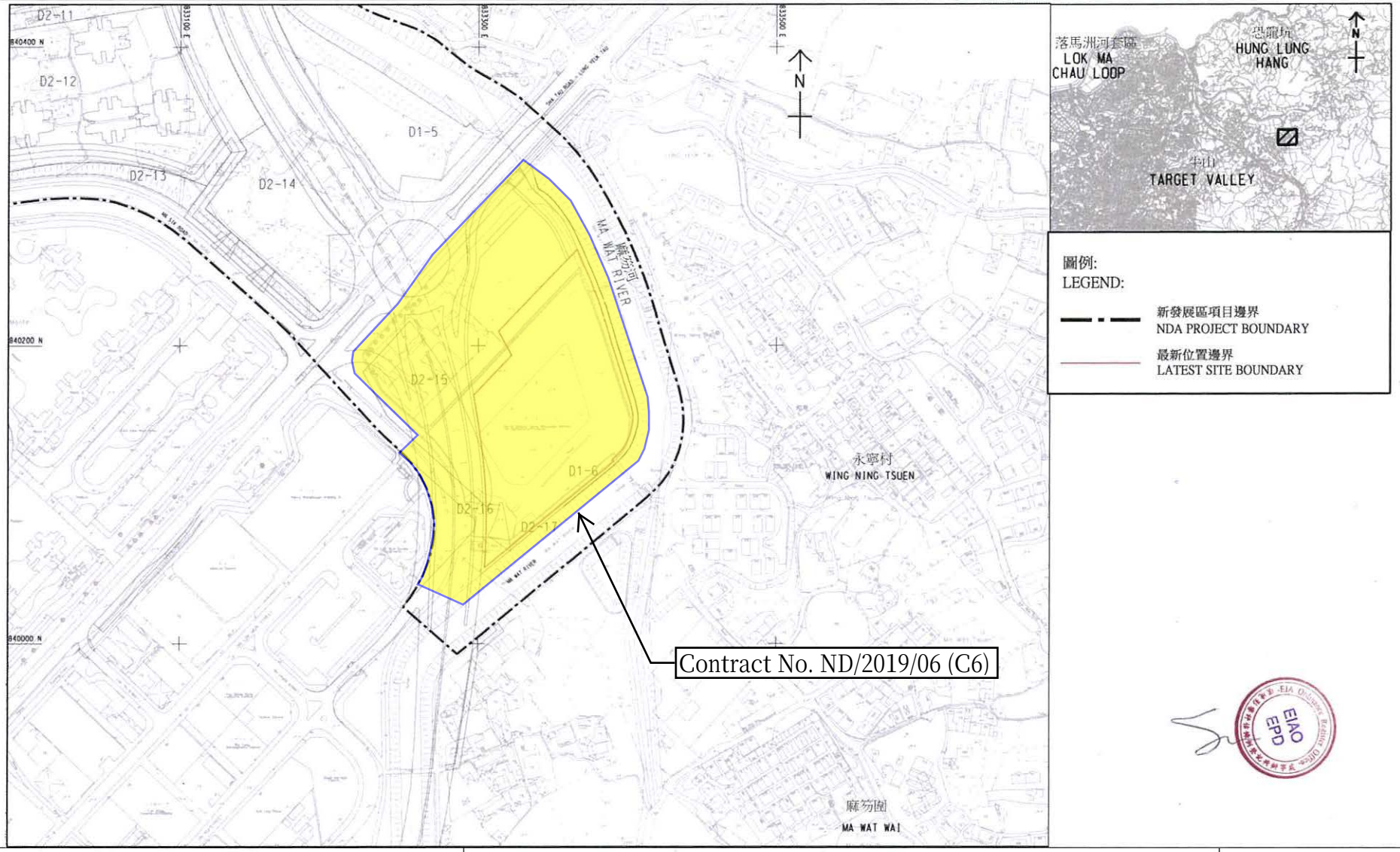
This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)
本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

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

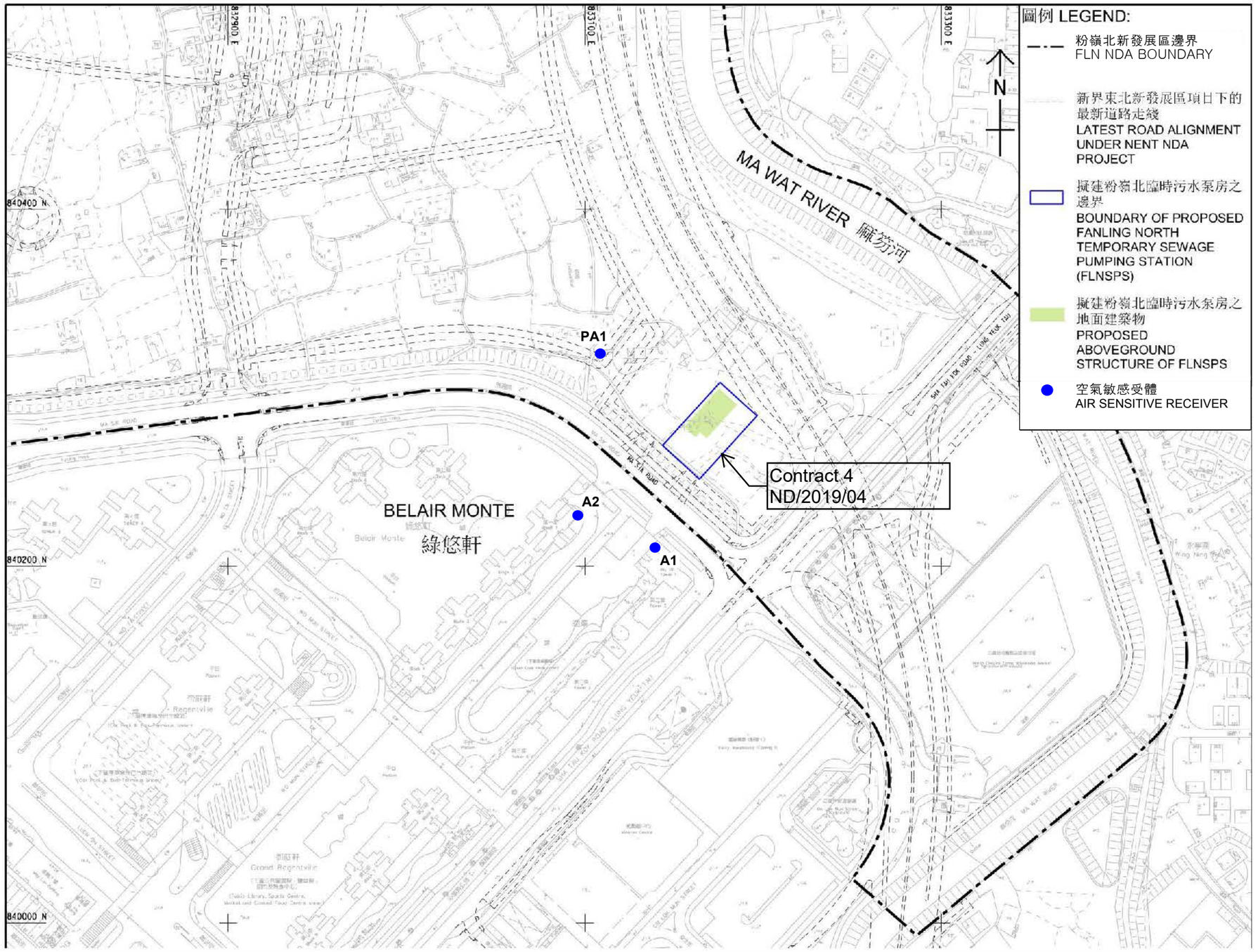
Environmental Permit No.: EP-475/2013/A
環境許可證編號 ：EP-475/2013/A

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

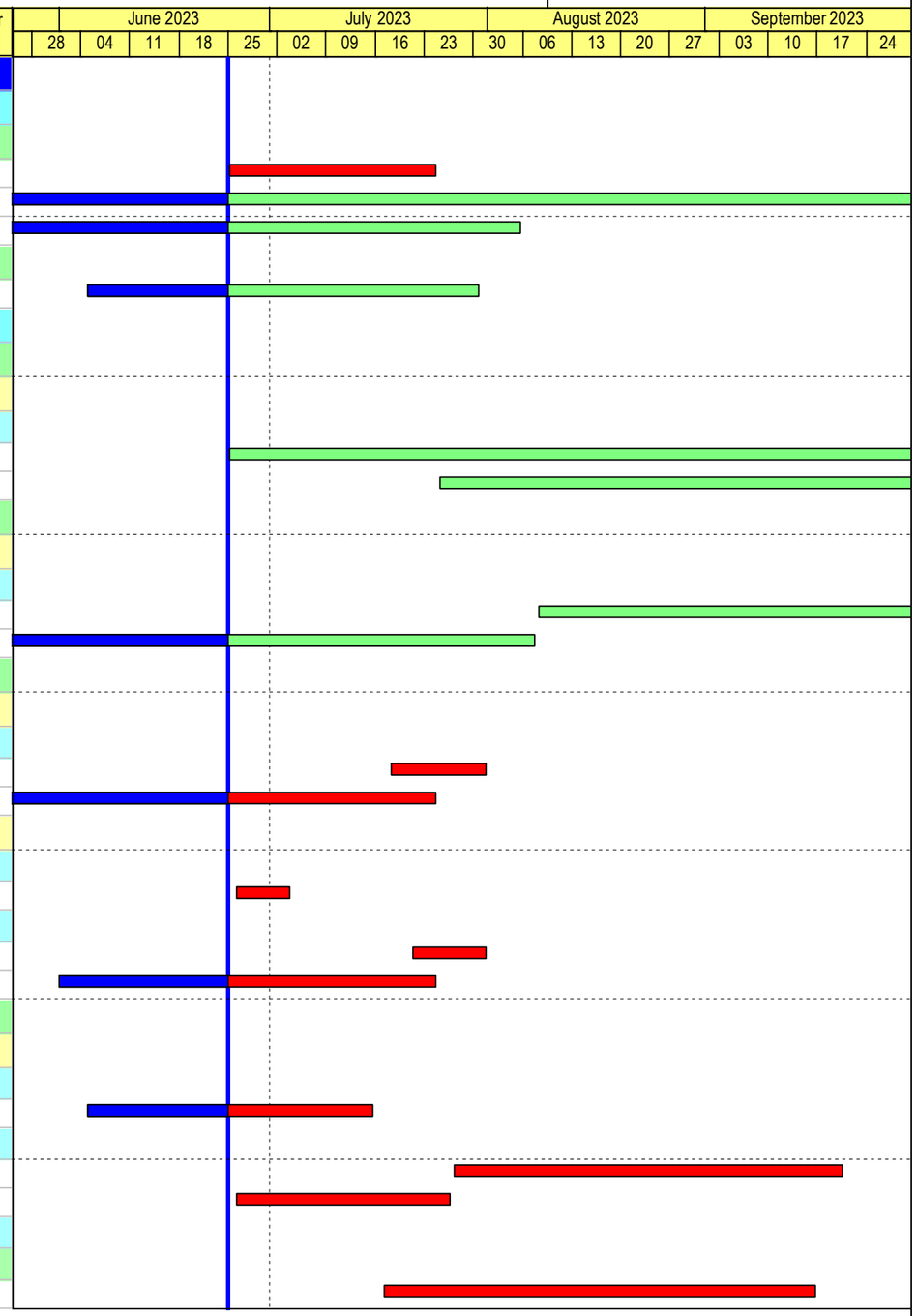
Construction Programme of ND/2019/01

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 (2023-06-25) Rev.0						
6.0 - Prelimiaries and General Requirements						
6.2 - General Submissions						
GS-1310	Application of Water Supply to WSD	30	25-Jun-23	24-Jul-23	-103	CD(7d)
GS-1290	Preparation and Submission of Fully Corodinated BIM	947	21-Aug-20 A	26-Jan-26*	10	CD(7d)
GS-1230	Submission of Major Method Statements	42	06-Dec-19 A	05-Aug-23	438	CD(7d)
6.3 - Subletting Packages						
SP-1210	Landscaping Works	36	05-Jun-23 A	30-Jul-23	587	CD(7d)
7.0 Construction						
Section 1						
Portion 10a in Area H, H1, H2 (Soil Treatment & Provision of Site Access & EVA to MWSC)						
Remaining Road works in Area H						
S1P10a-4000	DCS Works by Others (Anticipated Commencement Date 19-May-2023)	150	25-Jun-23	21-Nov-23	777	CD(7d)
S1P10a-2018	Road Works - Irrigation System Installation	60	25-Jul-23	04-Oct-23	467	WD(6d)
Section 3						
Portion 1a in Area E (Soil Treatment & Interface with HKHS's Contractors)						
Soil Treatment						
S3P1a-2020	Backfilling to the formation levels	48	08-Aug-23	04-Oct-23	668	WD(6d)
S3P1a-2010	Remove soil (original assumed 17334m3) (1 / 13 EGI completed, interim soil to be excavated / treated : 1260m3 / 400m3)	36	01-Mar-23 A	07-Aug-23	446	WD(6d)
Section 6A						
Portion 1e in Area G1 (Soil Treatment & Forming Hammerhead)						
Soil Treatment						
S6AP1e-2030	Erect Chain Link Fence	12	18-Jul-23	31-Jul-23	-92	WD(6d)
S6AP1e-2020	Site formation Works	24	25-May-23 A	24-Jul-23	-92	WD(6d)
Portion 15 in Area G1 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S6AP15-1020	Site clearance	6	26-Jun-23	03-Jul-23	-74	WD(6d)
Soil Treatment						
S6AP15-2030	Erect Chain Link Fence	9	21-Jul-23	31-Jul-23	-21	WD(6d)
S6AP15-2020	Site formation Works	24	01-Jun-23 A	24-Jul-23	-15	WD(6d)
Section 8						
Portion 2 in Area A (Soil Treatment & Construction of Pak Shek Au Junction)						
Preparation work						
S8P2-1018	Remaining Site clearance	17	05-Jun-23 A	15-Jul-23	-743	WD(6d)
Soil Treatment						
S8P2-2020	Backfilling to the formation levels	48	27-Jul-23	20-Sep-23	-488	WD(6d)
S8P2-2010	Remove soil (original assumed 6898m3) (0/1 EGI completed, interim soil to be excavated / treated : 0m3/0m3) Clean Soil	26	26-Jun-23*	26-Jul-23	-772	WD(6d)
Civil Work						
Construction of Pak Shek Au Junction						
S8P2-4100	Cut slope KS34 - Cut Slope	54	17-Jul-23	16-Sep-23	-743	WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2023-06)

Data Date: 25-Jun-23

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Project ID: ND201901-RP-40
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2023-06)			
Date	Revision	Checked	Approved
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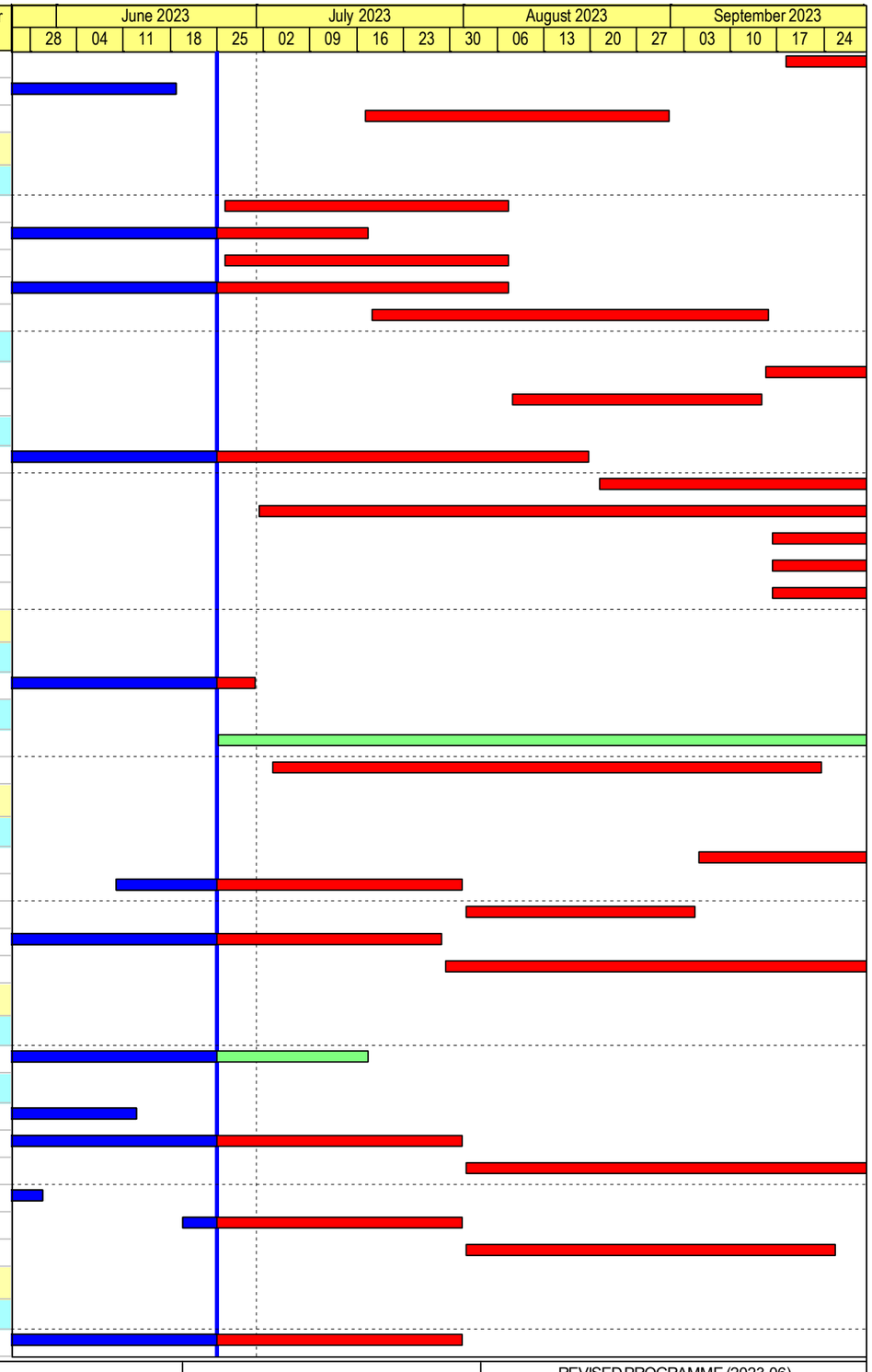
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P2-4100.10	Cut slope KS34 - Row AE & AD Soil Nail (27 + 20 Soil Nails) + Slope Drain + Soil Nail head	24	18-Sep-23	17-Oct-23	-691	WD(6d)
S8P2-4110	Expose existing UU & ELS for Drainage & Water Main	0	30-Jun-22 A	19-Jun-23 A		WD(6d)
S8P2-4120.50	Road & Drain Construction (CH260 to CH220) - Construct Drainage SMH KTRC1 to Channel RC1 (0 of 1 MHComplete)	40	17-Jul-23	31-Aug-23	-687	WD(6d)
Portion 1a in Area A (Soil Treatment, Slope, Retaining Wall, Noise Barrier, Drainage & Roadwork)						
Preparation work						
S8P1a-1040	Arsenic Treatment Plan	36	26-Jun-23	07-Aug-23	-391	WD(6d)
S8P1a-1015	Ground investigation (4 / 7 GI completed)	18	05-Nov-22 A	17-Jul-23	-465	WD(6d)
S8P1a-1030	Prepare Arsenic Assessment Report	36	26-Jun-23	07-Aug-23	-391	WD(6d)
S8P1a-1010	Site clearance & Tree Felling	36	05-Oct-22 A	07-Aug-23	-465	WD(6d)
S8P1a-1025	Verification of Ground Condition & Design Review by Project Manager	60	18-Jul-23	15-Sep-23	-578	CD(7d)
Soil Treatment						
S8P1a-2020	Backfilling to the formation levels	35	15-Sep-23	28-Oct-23	-369	WD(6d)
S8P1a-2010	Remove soil (original assumed 10988m3) (0 / 6 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	33	08-Aug-23	14-Sep-23	-391	WD(6d)
Civil Work						
S8P1a-7050	Construction of Drainage SMH KT 1103 to 1108 (0 / 6 M/H complete)	47	03-May-23 A	19-Aug-23	-57	WD(6d)
S8P1a-7060	Construction of Sewerage FMH KT 3.01A to 3.01B (0 / 2 M/H complete)	48	21-Aug-23	17-Oct-23	-57	WD(6d)
S8P1a-4000	DCS Works by Others (Anticipated Start Date 1-Jul-2023)	150	01-Jul-23*	27-Nov-23	-252	CD(7d)
S8P1a-7000	Excavation for retaining wall KW16	45	16-Sep-23	10-Nov-23	-472	WD(6d)
S8P1a-3020	Slopeworks for new feature KS03 (with about 200 nos. of soil nails)	84	16-Sep-23	28-Dec-23	-425	WD(6d)
S8P1a-3010	Slopeworks for new feature KS34 (with about 200 nos. of soil nails)	84	16-Sep-23	28-Dec-23	-425	WD(6d)
Portion 3 in Area A (Soil Treatment, Drainage & Roadwork)						
Soil Treatment						
S8P3-2020	Backfilling to the Water Main formation levels	5	13-May-23 A	30-Jun-23	-71	WD(6d)
Civil Work						
S8P3-4000	DCS Works by Others (Anticipated Start Date 2-May-2023)	120	25-Jun-23*	22-Oct-23	53	CD(7d)
S8P3-3010.02	Underground Fresh watermain CHA (North bound Carriageway) CHA	72	03-Jul-23	23-Sep-23	-71	WD(6d)
Portion 5 in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
Civil Work						
S8P5-4060	Pipe Jacking across DJ watermain - 2 Nos 1200 dia Conc Pipe	64	05-Sep-23	21-Nov-23	-238	WD(6d)
S8P5-4048	Pipe Jacking across DJ watermain - Jacking Pit ELS & Excavation	30	10-Jun-23 A	31-Jul-23	-238	WD(6d)
S8P5-4050	Pipe Jacking across DJ watermain - Mobilization and Set Up Pipe Jacking Equipment (CNE 060, EC-1086)	30	01-Aug-23	04-Sep-23	-238	WD(6d)
S8P5-4004.02	Underground Fresh & Flushing watermains (South bound Carriageway) CHD 325 to 420 & CHQ 315 to 430	28	30-Jul-22 A	28-Jul-23	-208	WD(6d)
S8P5-4012	Underground utilitiies (South bound CH 400 - CH 530)	72	29-Jul-23	24-Oct-23	-165	WD(6d)
Portion 6a & 6b in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S8P6a-1010	Site Clearance & Tree Felling	18	15-Feb-20 A	17-Jul-23	12	WD(6d)
Civil Work						
S8P6a-4056	Construction of Additional noise barrier NB02 (7 / 7 bays Slab completed, 7 / 7 byas Stem Wall completed)	0	03-Oct-22 A	13-Jun-23 A		WD(6d)
S8P6a-6000	Road D4 (SMHKT1001A and pipe laying to KT1001) - Underground Drainage work	30	16-May-23 A	31-Jul-23	-358	WD(6d)
S8P6a-6010	Road D4 - Laying DCS Pipes (CH 100 to CH 190)	60	01-Aug-23	11-Oct-23	-358	WD(6d)
S8P6a-4010.10	Road D4 - Laying DCS Pipes (CH 220 to CH 290)	0	20-Feb-23 A	30-May-23 A		WD(6d)
S8P6a-7010	Road D4 - Laying DCS Pipes (CH 290 to CH 400)	30	20-Jun-23 A	31-Jul-23	-48	WD(6d)
S8P6a-7020	Road D4 Underground Fresh Watermain CH 290 to CH 400	48	01-Aug-23	25-Sep-23	-48	WD(6d)
Portion 9b & 9d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S8P9b-1010	Site clearance & Tree Felling	30	25-Jun-22 A	31-Jul-23	-334	WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2023-06)

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Project ID: ND201901-RP-40
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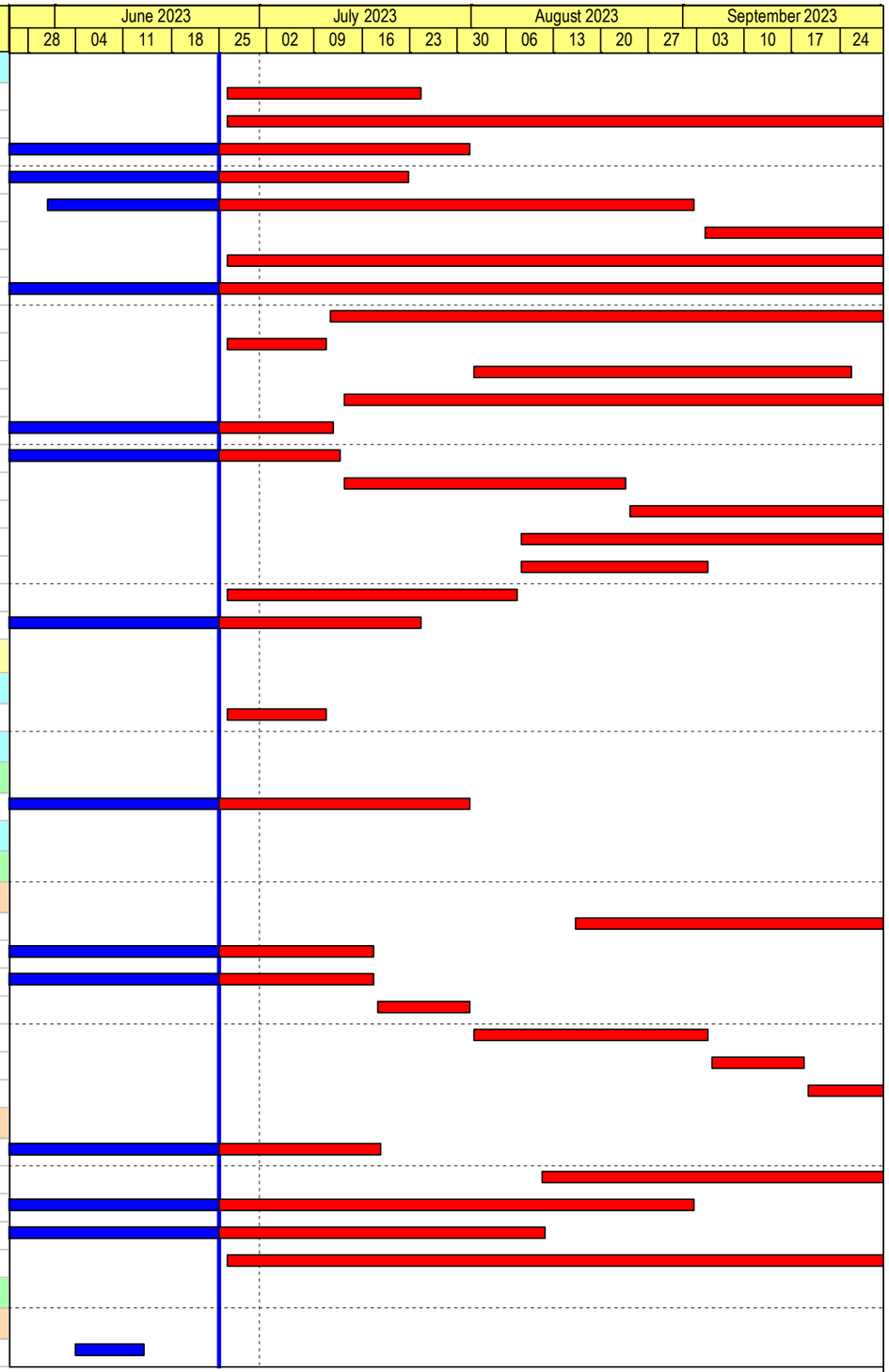
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Civil Work						
S8P9b-3104	Ma Tso Lung Road D4-2 - Break existing Road paving and Construct Pipe Culvert PC1 - Stage 2	24	26-Jun-23	24-Jul-23	-295	WD(6d)
S8P9b-3108	Ma Tso Lung Road D4-2 - Construction of Underground Drainage Manhole M 3.90 to KT 7110 and KT 7108 to M.395	90	26-Jun-23	11-Oct-23	-295	WD(6d)
S8P9b-3106	Ma Tso Lung Road D4-2 - Construction of Underground Sewerage Manhole FMH 7.14 to 8.03 (1/3 MH Complete)	30	11-May-23 A	31-Jul-23	-295	WD(6d)
S8P9b-3057.08	Road D4 (CH 400 - CH 565) - Underground Fresh Watermains	23	12-Jan-23 A	22-Jul-23	-43	WD(6d)
S8P9b-3057.10	Road D4 (CH 400 to CH 625) - Laying DCS Pipes	59	31-May-23 A	02-Sep-23	-43	WD(6d)
S8P9b-3057.30	Road D4 (CH 565 - CH 625) - Underground Fresh Watermains	48	04-Sep-23	01-Nov-23	-43	WD(6d)
S8P9b-3010	Road D4 (CH 780 to CH 994) - Construction of Underground Drainage Manhole SMH KT5009 to SMH KT5016	135	26-Jun-23	04-Dec-23	-334	WD(6d)
S8P9b-3008	Road D4 (CH 780 to CH 994) - Construction of Underground Sewerage Manhole FMH 7.10 to 7.13 (0/4 MH Complete)	86	15-Mar-23 A	06-Oct-23	-334	WD(6d)
S8P9b-3262	Road D4 Across DJ Watermain - Construct Jacking Pit & Recieving Pit	100	11-Jul-23	07-Nov-23	-435	WD(6d)
S8P9b-3260	Road D4 Across DJ Watermain - Implement TTA and Road Diversion (CH 670 to CH 780)	12	26-Jun-23*	10-Jul-23	-435	WD(6d)
S8P9b-3160	Road D4-1 - Laying DCS Pipes (CH 969 to CH 993)	48	01-Aug-23	25-Sep-23	-283	WD(6d)
S8P9b-3058.20	Road D5 - DCS Works by Others (Anticipated Commencement Date Jul-2023)	90	13-Jul-23	10-Oct-23	-58	CD(7d)
S8P9b-3058.080	Road D5 - Laying Drainage Pipe between SMHK KT7103 and KT7104	13	13-May-23 A	11-Jul-23	-46	WD(6d)
S8P9b-3058.10	Road D5 - Laying Watermains Stage 1 (before H/O to DCS Contractor)	14	22-May-23 A	12-Jul-23	-47	WD(6d)
S8P9b-3058.100	Road D5 - Laying Watermains Stage 2	36	13-Jul-23	23-Aug-23	-45	WD(6d)
S8P9b-3058.110	Road D5 - Underground Utilities by others	36	24-Aug-23	06-Oct-23	-45	WD(6d)
S8P9b-3030.06	Road W1 (CH100 to CH310) - Backfilling to Formation Level	48	08-Aug-23	04-Oct-23	-168	WD(6d)
S8P9b-3030.04	Road W1 (CH100 to CH310) - Pressure test for Fresh & Flushing watermains	24	08-Aug-23	04-Sep-23	-144	WD(6d)
S8P9b-3030.02	Road W1 (CH250 to CH310) - Laying Watermains	36	26-Jun-23	07-Aug-23	-168	WD(6d)
S8P9b-3001.02	Slopeworks for new feature KS19 - U channel, Berm, Maintenance Access & Handrail Construction	24	02-Dec-22 A	24-Jul-23	-272	WD(6d)
Portion 8a in Area A (Soil Treatment, Reservoirs, Slope, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S8P8a-1035	Remaining Ground investigation (0 / 1 GI completed) to Fresh Water Service Reservoir	12	26-Jun-23	10-Jul-23	-243	WD(6d)
Forming Site Access and Site Formation						
Stage 1 General Excavation near Flushing Water Servie Reservior (Excavation Volume 52834 m3)						
S8P8a-1160	General excavation for remaining of Road W1	30	11-Jun-20 A	31-Jul-23	-261	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						
S8K8-1040	Backfilling (6559m3)	108	16-Aug-23	22-Dec-23	-25	WD(6d)
S8K8-1038	Install Watermains inside Chambers	18	22-Feb-23 A	17-Jul-23	0	WD(6d)
S8K8-1100	Tank No. 1 - Fill up Tank No. 1 for Water Tightness Test	18	18-Apr-23 A	17-Jul-23	-21	WD(6d)
S8K8-1110	Tank No. 1 - Water Tightness Test	14	18-Jul-23	31-Jul-23	-27	CD(7d)
S8K8-1120	Tank No. 2 - Fill up Tank No. 2 for Water Tightness Test	30	01-Aug-23	04-Sep-23	-23	WD(6d)
S8K8-1130	Tank No. 2 - Water Tightness Test	14	05-Sep-23	18-Sep-23	-27	CD(7d)
S8K8-1140	Whole Structure - Fill up Tank No.1 & 2 for Water Tightness Test	30	19-Sep-23	26-Oct-23	-23	WD(6d)
E&M Works						
S8K8-2010	Design and Approval for E&M works for KTN FLWSR	24	01-Feb-21 A	18-Jul-23	-1	CD(7d)
S8K8-2050	Installation of E&M equipment for KTN FLWSR	200	11-Aug-23	15-Apr-24	-42	WD(6d)
S8K8-2030	Procurement of E&M equipment for KTN FLWSR	70	15-Aug-22 A	02-Sep-23	-1	CD(7d)
S8K8-2020	Submission and Approval of E&M plants & materials for KTN FLWSR	48	01-Feb-21 A	11-Aug-23	-1	CD(7d)
S8K8-2040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FLWSR	120	26-Jun-23	16-Nov-23	-42	WD(6d)
Construction of Kwu Tung North Freshwater Service Reservoir (KTN FWSR)						
Civil Works						
S8K8-1000.76	Baffle Wall - GL 10 / D-J	0	04-Jun-23 A	14-Jun-23 A		WD(6d)



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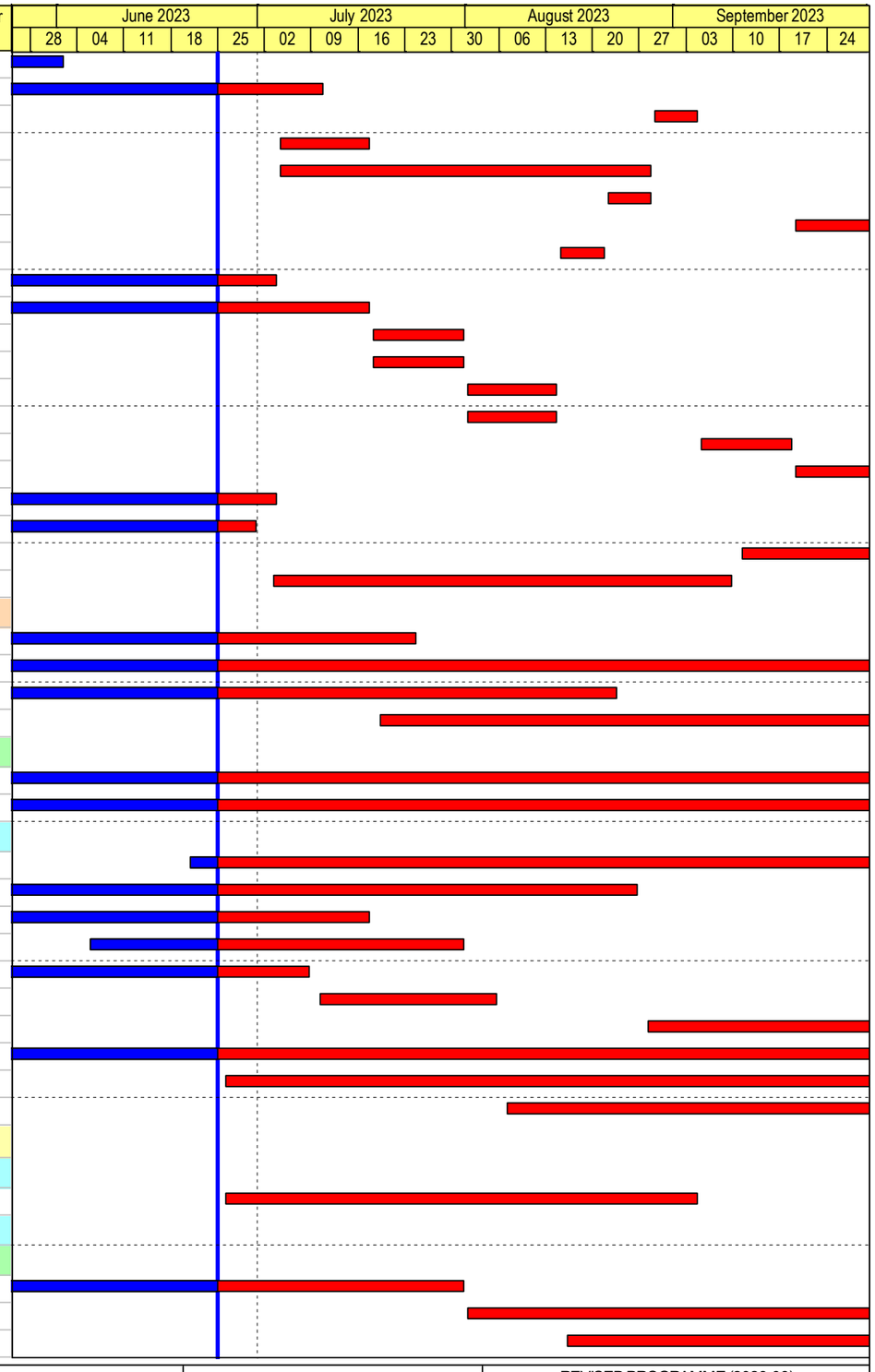
S8K8-1000.70	Baffle Wall - GL 10 / J-P	0	29-Apr-23 A	02-Jun-23 A		WD(6d)
S8K8-1000.60	Columns (117 of 120 nos complete)	12	28-Jun-22 A	10-Jul-23	-28	WD(6d)
S8K8-1000.62	Columns (4 nos)	6	29-Aug-23	04-Sep-23	-28	WD(6d)
S8K8-1002.50	Construct Overflow Trough	12	04-Jul-23	17-Jul-23	-28	WD(6d)
S8K8-1032	Construction of Intlet Chamber	48	04-Jul-23	28-Aug-23	-10	WD(6d)
S8K8-1000.46	Cover Slab - No. 15 Stage 3	6	22-Aug-23	28-Aug-23	-28	WD(6d)
S8K8-3038	Install Watermains inside Chambers	100	19-Sep-23	19-Jan-24	-28	WD(6d)
S8K8-1002.80	Remove Tower Crane	6	15-Aug-23	21-Aug-23	-28	WD(6d)
S8K8-1002.48	Roof - bay 3	6	02-May-23 A	03-Jul-23	-28	WD(6d)
S8K8-1002.44	Roof - bay 4	18	16-Jan-23 A	17-Jul-23	-28	WD(6d)
S8K8-1002.52	Roof - bay 5	12	18-Jul-23	31-Jul-23	-28	WD(6d)
S8K8-1002.54	Roof - bay 6	12	18-Jul-23	31-Jul-23	-28	WD(6d)
S8K8-1002.58	Roof - bay 7	12	01-Aug-23	14-Aug-23	-28	WD(6d)
S8K8-1002.60	Roof - bay 8	12	01-Aug-23	14-Aug-23	-28	WD(6d)
S8K8-1002.62	Roof - bay 9	12	05-Sep-23	18-Sep-23	-28	WD(6d)
S8K8-3040.10	Tank No. 1 - Fill up Tank No. 1 for Water Tightness Test & Water Sterility Test	42	19-Sep-23	09-Nov-23	-19	WD(6d)
S8K8-1028	Temp Works for Inlet Chamber Construction	6	10-May-23 A	03-Jul-23	-10	WD(6d)
S8K8-3048	Up Hill Recieving Pit - Construct Temp Road & Platform for Road W5 Cut Slope & Temp Soil Nail	5	20-May-23 A	30-Jun-23	-458	WD(6d)
S8K8-3060	Up Hill Recieving Pit - Excavation & Construction	164	11-Sep-23	02-Apr-24	-458	WD(6d)
S8K8-3050	Up Hill Recieving Pit - Road W5 Cut Slope & Temp Soil Nail	60	03-Jul-23	09-Sep-23	-458	WD(6d)
E&M Works						
S8K8-4010	Design and Approval for E&M works for KTN FWSR	30	20-Dec-21 A	24-Jul-23	-80	CD(7d)
S8K8-4030	Procurement of E&M equipment for KTN FWSR	54	15-Aug-22 A	16-Oct-23	-110	CD(7d)
S8K8-4020	Submission and Approval of E&M plants & materials for KTN FWSR	60	15-Mar-22 A	23-Aug-23	-110	CD(7d)
S8K8-4040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FWSR	140	19-Jul-23	04-Jan-24	-88	WD(6d)
Remaining pipe laying work and roadworks within Road W1						
S8K8-4100	Road W1 - Construction of Drainage Manhole SMH KT 8105 to 8103 (0 / 8 M/H complete)	90	15-May-23 A	11-Oct-23	-215	WD(6d)
S8K8-4200	Road W2 - Construction of Drainage Manhole SMH KT 8104A to 8002 (0 / 6 M/H complete)	90	03-May-23 A	11-Oct-23	-18	WD(6d)
Remaining Civil Work in Portion 8a Area A						
S8P8a-2562	Construction of retaining wall KW06 bay 1 - bay 7 (bays 0/7 completed)	90	21-Jun-23 A	11-Oct-23	-271	WD(6d)
S8P8a-2602	Construction of retaining wall KW05 bay 7 - bay 16 (Base Slab 10/10 bays completed, Stem Wall 3/10 bays completed)	53	12-Nov-22 A	26-Aug-23	-318	WD(6d)
S8P8a-2662	Construction of retaining wall KW11 bay 1 - bay 11 (Base Slab 11/11 bays completed, Stem Wall 9/11 bays completed)	18	16-Jun-22 A	17-Jul-23	-123	WD(6d)
S8P8a-2560	Excavation for retaining wall KW06 bay 1 - bay 7 (bays 3/7 Completed)	30	06-Jun-23 A	31-Jul-23	-211	WD(6d)
S8P8a-5020	Road A5 - New Formed Rock Fill Slope KS52	11	25-Apr-23 A	08-Jul-23	-180	WD(6d)
S8P8a-5030	Road A5 - Road Works	24	10-Jul-23	05-Aug-23	-180	WD(6d)
S8P8a-6020	Road W1 - Backfilling to Formation Level For Drainage Construction SMH KT 7016 to 7015	48	28-Aug-23	25-Oct-23	-318	WD(6d)
S8P8a-6001	Road W1 - Construction of Drainage Manhole SMH KT 7006B to 7001 (0 / 8 M/H complete)	90	25-Apr-23 A	11-Oct-23	-195	WD(6d)
S8P8a-6006	Road W1 - Construction of Drainage Manhole SMH KT 7011A to 7009 (0 / 5 M/H complete)	104	26-Jun-23	28-Oct-23	-261	WD(6d)
S8P8a-5050	Road W1 - New Formed Rock Fill Slope KS50	48	07-Aug-23	03-Oct-23	-60	WD(6d)
Portion 8b in Area A (Soil Treatment & Install Watermains by Trenchless / Open Trench Method)						
Soil Treatment						
S8P8b-2020	Backfilling to the formation levels	60	26-Jun-23	04-Sep-23	-379	WD(6d)
Construction of Watermains						
Construction of watermains by trenchless method						
S8P8b-4012.22	GPR & Micrometemor Survey, Reporting & Approval	30	27-Dec-22 A	31-Jul-23	-456	WD(6d)
S8P8b-4012.24	Ground Treatment	134	01-Aug-23	10-Jan-24	-456	WD(6d)
S8P8b-4120	Up Hill Pipe Jacking - 2100 dia Pipe Sleeve For Flushing Water	210	16-Aug-23	02-May-24	-406	WD(6d)



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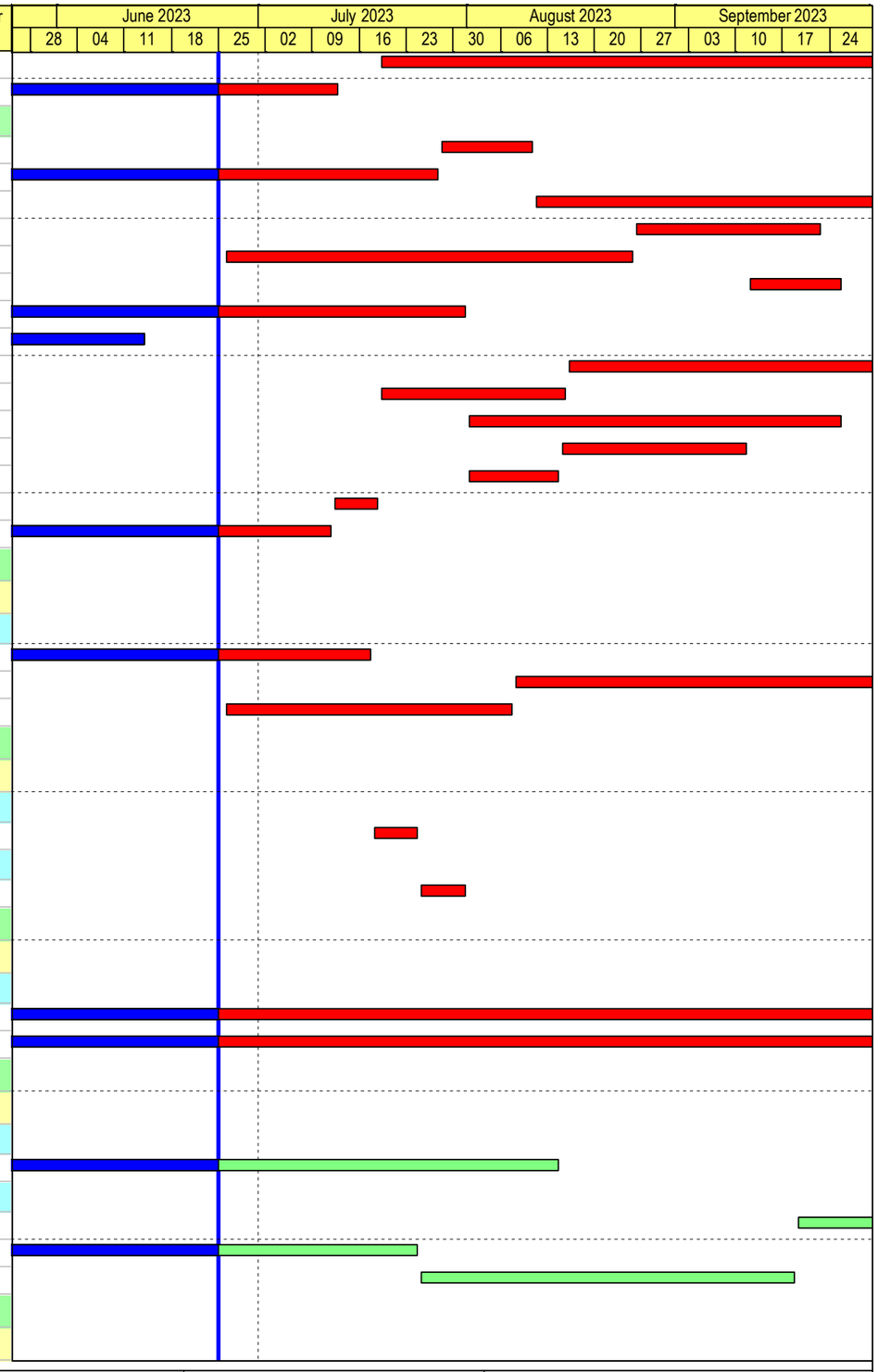
S8P8b-4110	Up Hill Pipe Jacking - 2500 dia Pipe Sleeve For Fresh Water	210	19-Jul-23	02-Apr-24	-454	WD(6d)
S8P8b-4100	Up Hill Pipe Jacking Pit - Mobilization and Set Up Pipe Jacking Equipment	14	15-Apr-23 A	12-Jul-23	-449	WD(6d)
Construction of watermains by open trench method						
S8P8b-5002.02	DSD Maintenance Road - Implement TTA for Stage 2 - CHY 1047 to 1143	12	28-Jul-23	10-Aug-23	-300	WD(6d)
S8P8b-5002	DSD Maintenance Road - Stage 1 Laying flushing water main - CHY 1143 to 1233	27	04-Mar-23 A	27-Jul-23	-300	WD(6d)
S8P8b-5004	DSD Maintenance Road - Stage 2 Laying flushing water main - CHY 1047 to 1143	110	11-Aug-23	20-Dec-23	-300	WD(6d)
S8P8b-5006.04	Government Land - Laying Flushing water main - CHY 921 to 931	24	26-Aug-23	22-Sep-23	-227	WD(6d)
S8P8b-5006.06	Government Land - Laying Flushing water main - CHY 987 to 1040	52	26-Jun-23	25-Aug-23	-227	WD(6d)
S8P8b-8200	Ho Sheung Heung Road Fresh water main - Backill and Reinstate Road	12	12-Sep-23	25-Sep-23	-289	WD(6d)
S8P8b-7120	Ho Sheung Heung Road Fresh water main - Combine Chamber Construction (CHO 752 to 775)	30	29-Apr-23 A	31-Jul-23	-409	WD(6d)
S8P8b-7110	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 761 to 793)	0	15-Apr-23 A	14-Jun-23 A		WD(6d)
S8P8b-7102	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 550 to 553)	48	16-Aug-23	12-Oct-23	-458	WD(6d)
S8P8b-7100	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 553 to 569)	24	19-Jul-23	15-Aug-23	-458	WD(6d)
S8P8b-7130	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling(CHO 720 to 760)	48	01-Aug-23	25-Sep-23	-409	WD(6d)
S8P8b-8190	Ho Sheung Heung Road Fresh water main - Expose existing Watermain & Liase with WSD	24	15-Aug-23	11-Sep-23	-289	WD(6d)
S8P8b-8180	Ho Sheung Heung Road Fresh water main - Implement TTA to Expose existing Watermain for Connection	12	01-Aug-23*	14-Aug-23	-289	WD(6d)
S8P8b-7094	Preparation & Implement TTA (CHO 553 to 569)	6	12-Jul-23	18-Jul-23	-457	WD (6d)
S8P8b-7092	Preparation, Submission, Approval of TTA (CHO 553 to 569)	13	05-May-23 A	11-Jul-23	-457	WD (6d)
Section 9						
Portion 12 in Area F (Soil Treatment & Interface with EMSD's Contractors)						
Soil Treatment						
S9P12-3030	Approval of CIA, Tunnel Monitoring Proposal and Analysis	23	18-May-23 A	17-Jul-23	-569	CD(7d)
S9P12-3050	Excavate to Formation Level (after set up for Tunnel Monitoring)	48	08-Aug-23	04-Oct-23	-459	WD(6d)
S9P12-3040	Installation of Tunnel Monitoring Instrumentation	36	26-Jun-23	07-Aug-23	-459	WD(6d)
Section 10B						
Portion 15 in Area J1 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S10BP7-1020	Site clearance	6	18-Jul-23	24-Jul-23	-92	WD(6d)
Soil Treatment						
S10BP7-2020	Site formation Works	6	25-Jul-23	31-Jul-23	-92	WD(6d)
Section 11						
Portion 6b in Area B (Soil Treatment & Operation of HAC Soil Treatment Plant)						
Operation and Dismantling of the Soil Treatment Plant						
S11P6b-3010	Provide treatment to high arsenic-containing soil	482	03-Dec-20 A	08-Feb-25*	0	WD(6d)
S11P6b-3000	Provide treatment to Imported high arsenic-containing soil (Estimated Qty 90,000m3)	429	01-Mar-23 A	30-Nov-24	0	WD(6d)
Section 12A						
Portion 10b in Area L1 (Soil Treatment, Drainage & Roadwork)						
Soil Treatment						
S12P10b-2020	Backfilling to the formation levels	42	25-Mar-23 A	14-Aug-23	710	WD(6d)
Civil Work						
S12P10b-3014	Laying Underground Fresh & Flushing Watermains	48	19-Sep-23	16-Nov-23	107	WD(6d)
S12P10b-3010	Underground Primary Drainage & Sewerage (1 / 1 SM/H, 0 / 1 FMH) Before DCS Works	24	13-Oct-21 A	24-Jul-23	107	WD(6d)
S12P10b-3012	Underground Secondary Drainage work (0 / 2 SM/H)	48	25-Jul-23	18-Sep-23	107	WD(6d)
Section 13						
Portion 2 in Area N (Soil Treatment, Slope, Drainage & Pak Shek Au Junction)						



Build King – Richwell Engineering Joint Venture

Planned Work
Critical Work
Actual Work
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ND/2019/01 - 3 Month Rolling Programme (2023-06)

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REVISED PROGRAMME (2023-06)			
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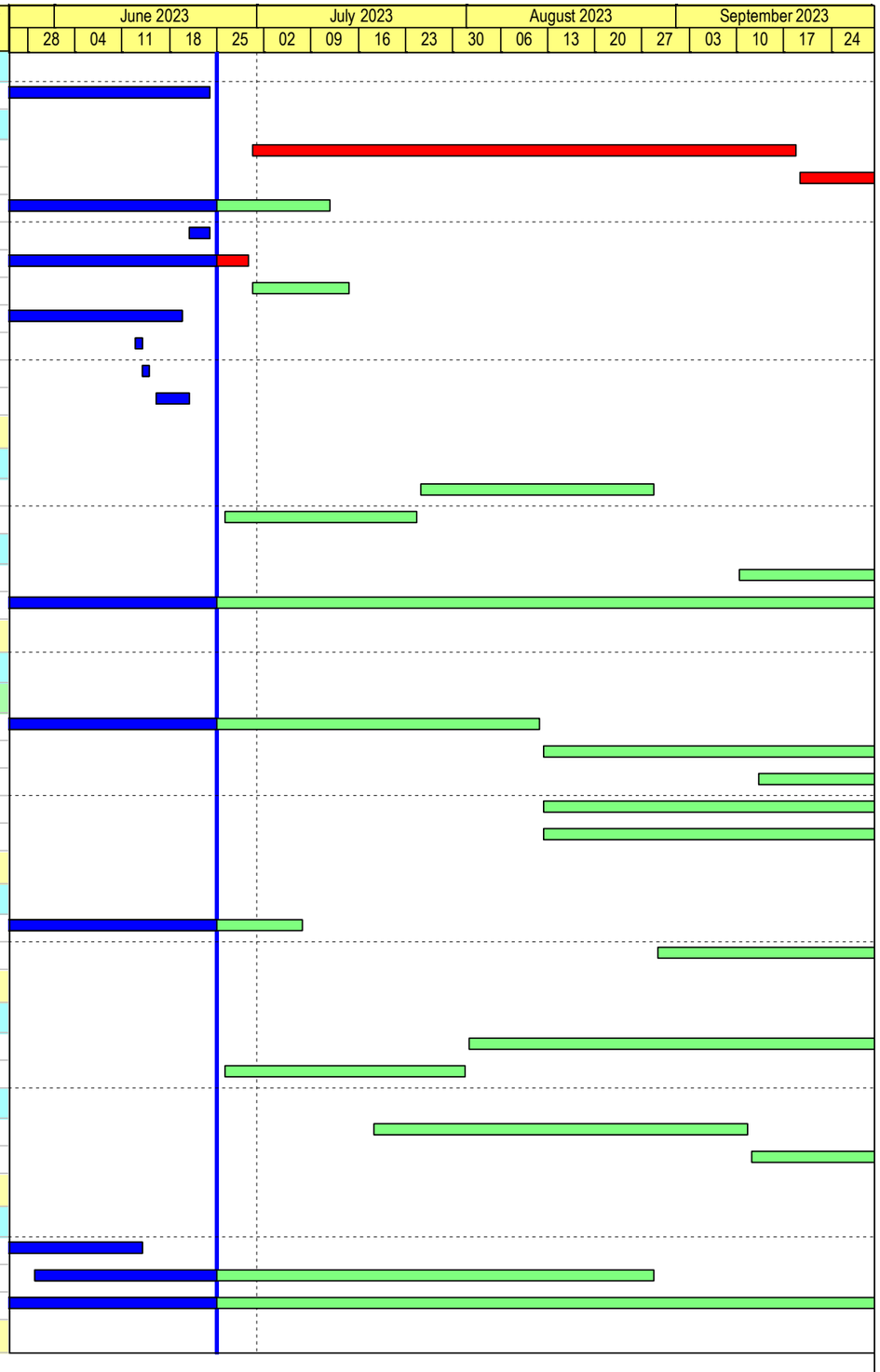
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Soil Treatment						
S13P2-2020	Backfilling to the formation levels	0	20-Jan-23 A	24-Jun-23 A		WD(6d)
Civil Works						
S13P2- 6050	East Quadrant - Tree Felling, Slope KS39, Draiange & Road Works	68	30-Jun-23	18-Sep-23	0	WD(6d)
S13P2- 4060	East Quadrant - Reconstruct existing slope KS40 and 2SE-B/C171	94	19-Sep-23	12-Jan-24	0	WD(6d)
S13P2- 4048	West Quadrant - Installation of smart road lightings system	13	22-May-23 A	11-Jul-23	35	WD(6d)
S13P2- 4034.00	West Quadrant - Backfill to Formation Level	0	21-Jun-23 A	24-Jun-23 A		WD(6d)
S13P2- 4020.06	West Quadrant - Construction of Footpath & Installation of smart road lighting system	4	01-Apr-23 A	29-Jun-23	0	WD(6d)
S13P2- 4034.06	West Quadrant - Construction of Footpath (After Remaining Draiange)	12	30-Jun-23	14-Jul-23	32	WD(6d)
S13P2- 4032	West Quadrant - Construction of road Drainage (Remaining - 5 / 5 MH completed)	0	11-Jan-23 A	20-Jun-23 A		WD(6d)
S13P2- 4034.04	West Quadrant - Construction of Road Kerb	0	13-Jun-23 A	14-Jun-23 A		WD(6d)
S13P2- 4034.02	West Quadrant - Construction of Road Sub base	0	14-Jun-23 A	15-Jun-23 A		WD(6d)
S13P2- 4034.08	West Quadrant - Laying Bitumen & Road Marking	0	16-Jun-23 A	21-Jun-23 A		WD(6d)
Portion 1a in Area N (Soil Treatment, Drainage & Roadwork)						
Soil Treatment						
S13P1a-2020	Backfilling to the formation levels	30	25-Jul-23	28-Aug-23	223	WD(6d)
S13P1a-2010	Remove soil (original assumed 14182m3) (0 / 4 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	24	26-Jun-23*	24-Jul-23	158	WD(6d)
Civil Work						
S13P1a-4000	Road D1 - DCS Works by Others (Anticipated Commencement Date 10-Sep-2023)	120	10-Sep-23*	07-Jan-24	511	CD(7d)
S13P1a-3012	Underground Primary Drainage work SMH KT1013 - KT1015 (0 / 5 MH Completed)	119	20-Apr-23 A	15-Nov-23	158	WD(6d)
Portion 7 in Area N (Soil Treatment, Drainage & Roadwork)						
Civil Work						
Underground Utilities						
S13P7-4000	DCS Works by Others	48	10-Feb-23 A	11-Aug-23	452	CD(7d)
S13P7-4010	Underground drainage After DCS Works (0 / 6 M/H completed)	72	12-Aug-23	07-Nov-23	445	WD(6d)
S13P7-3014	Underground road lighting ducts	150	13-Sep-23	15-Mar-24	366	WD(6d)
S13P7-3012	Underground sewage (0 / 4 M/H completed)	150	12-Aug-23	09-Feb-24	367	WD(6d)
S13P7-3013	Underground watermains	156	12-Aug-23	20-Feb-24	367	WD(6d)
Portion 1b in Area N (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S13P1b-3012	Construction of Sewerage (1 / 1 MH complete)	10	30-Dec-22 A	07-Jul-23	228	WD(6d)
S13P1b-4000	DCS Works by Others (Anticipated Commencement Date 29-Aug-2023)	120	29-Aug-23	26-Dec-23	230	CD(7d)
Portion 6a & 5 in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						
Soil Treatment						
S13P6a-2020	Backfilling to the formation levels	60	01-Aug-23	11-Oct-23	960	WD(6d)
S13P6a-2010	Remove soil (original assumed 566m3) (1 / 1 EGI completed, interim soil to be excavated / treated : 0m3 /0m3) Clean Soil	30	26-Jun-23*	31-Jul-23	452	WD(6d)
Civil Work						
S13P6a-3012	Pipe Jacking across DJ watermain (CNE 060, EC-1086) - Jacking Pit ELS & Excavation	48	18-Jul-23*	11-Sep-23	7	WD(6d)
S13P6a-3012.00	Pipe Jacking across DJ watermain (CNE 060, EC-1086) - Receiving Pit ELS & Excavation	48	12-Sep-23	09-Nov-23	7	WD(6d)
Portion 1c in Area N (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S13P1c-3010.04	Construct Underground Sewerage (4 / 4 MH completed)	0	07-Oct-22 A	14-Jun-23 A		WD(6d)
S13P1c-4000	DCS Works by Others (Anticipated Commencement Date 29-May-2023)	65	29-May-23 A	28-Aug-23	172	CD(7d)
S13P1c-3010.06	Laying of Fresh Watermain CH I & Flushing Watermain CH DA	54	10-May-23 A	02-Nov-23	139	WD(6d)
Portion 9a in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						



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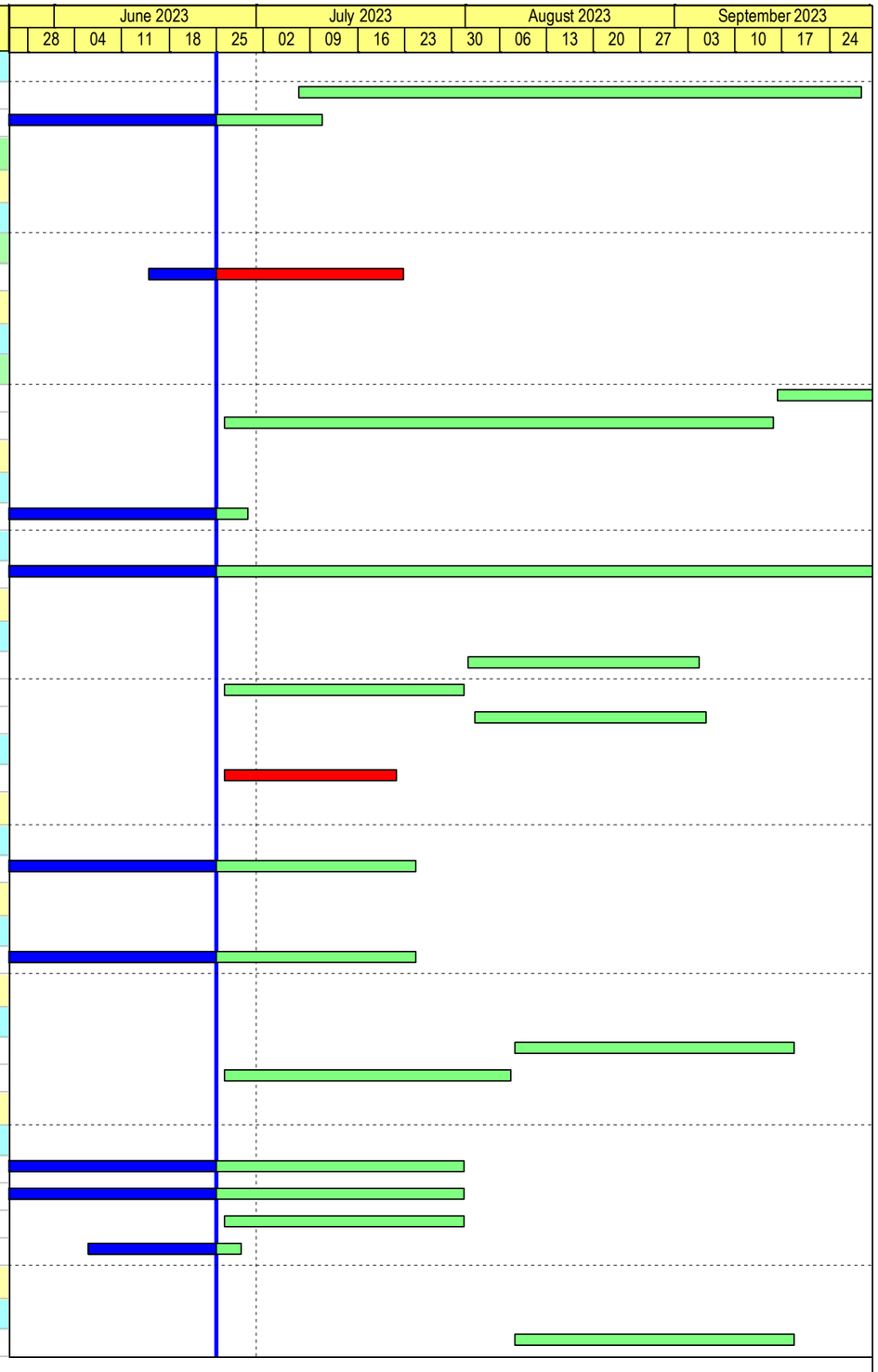
Civil Work						
S13P9a-3082	Additional Noise barrier NB04 - Piling Works (0 / 30 Mini H piles complete)	72	07-Jul-23*	28-Sep-23	3	WD(6d)
S13P9a-3012	Construct Underground Sewerage (0 / 2 MH Complete)	12	15-May-23 A	10-Jul-23	72	WD(6d)
Section 14						
Portion 10a in Area H1 (Soil Treatment, UU Diversion & Construction Access to MWSC)						
KD5 - Provision of construction access in Area H1 and between Area H1 and Multi-Welfare Services Com						
Civil Work						
S14P7T-3020	Construct temporary noise barrier along Castle Peak Road in Area H1 & Remaining Area T3	23	15-Jun-23 A	22-Jul-23	-77	WD(6d)
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-2020	Backfill with treated soil	140	16-Sep-23	07-Mar-24	494	WD(6d)
S14P7P-2010	Remove soil (original assumed 17368m3) (2 / 2 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	70	26-Jun-23*	15-Sep-23	494	WD(6d)
Portion 7 in Area S3 (Soil Treatment & Operation of HAC Soil Treatment Plant)						
KD4 - Setting up and T&C of the High Arsenic-containing Soil Treatment Plant						
S14P7S3-2010	Set up, testing and commissioning high arsenic-containing soil treatment plant (KD4) (CSD for Treated soil Stock pile)	4	06-Oct-20 A	29-Jun-23	185	WD(6d)
Operation and Dismantling of the Soil Treatment Plant						
S14P7S3-3010	Stock Pile of Treated Soil	365	20-Nov-20 A	19-Sep-24	185	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	01-Aug-23	04-Sep-23	691	WD(6d)
S14P7T-1020	Site clearance (Area T1)	30	26-Jun-23	31-Jul-23	691	WD(6d)
S14P7T-1024	Tree felling works (Area T1)	30	02-Aug-23	05-Sep-23	691	WD(6d)
KD9 - Complete the temporary noise barriers along Castle Peak Road in Area T1, T2, T3, H, H1, I, J						
S14P7T-3010	Construct temporary noise barrier along Castle Peak Road in Area T1 (50m) & Remaining Area T2 (To be deleted)	22	26-Jun-23	21-Jul-23	-76	WD(6d)
Portion 1b in Area S2 (Soil Treatment)						
Soil Treatment						
S14P1b-2020	Site Formation Works & Erecting Hoarding	24	03-Apr-23 A	24-Jul-23	728	WD(6d)
Portion 1c & 9a in Area S2 (Soil Treatment)						
Soil Treatment						
S14P1c-2020	Backfilling to the formation levels	24	27-Jan-23 A	24-Jul-23	728	WD(6d)
Portion 6a in Area S2 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P6a-1050	Arsenic Treatment Plan	36	08-Aug-23	18-Sep-23	386	WD(6d)
S14P6a-1040	Prepare Arsenic Assessment Report	36	26-Jun-23	07-Aug-23	386	WD(6d)
Portion 6b in Area S2 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P6b-1050	Arsenic Treatment Plan	30	02-May-22 A	31-Jul-23	428	WD(6d)
S14P6b-1040	Prepare Arsenic Assessment Report	30	02-May-22 A	31-Jul-23	428	WD(6d)
S14P6b-1017	Tree felling	30	26-Jun-23	31-Jul-23	428	WD(6d)
S14P6b-1060	Trial Pit to Determine Soil Stability (4 Nos)	3	06-Jun-23 A	28-Jun-23	1047	WD(6d)
Portion 1f in Area R (Soil Treatment & Construction of Interim CLC)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P1f-1050	Arsenic Treatment Plan	36	08-Aug-23	18-Sep-23	446	WD(6d)



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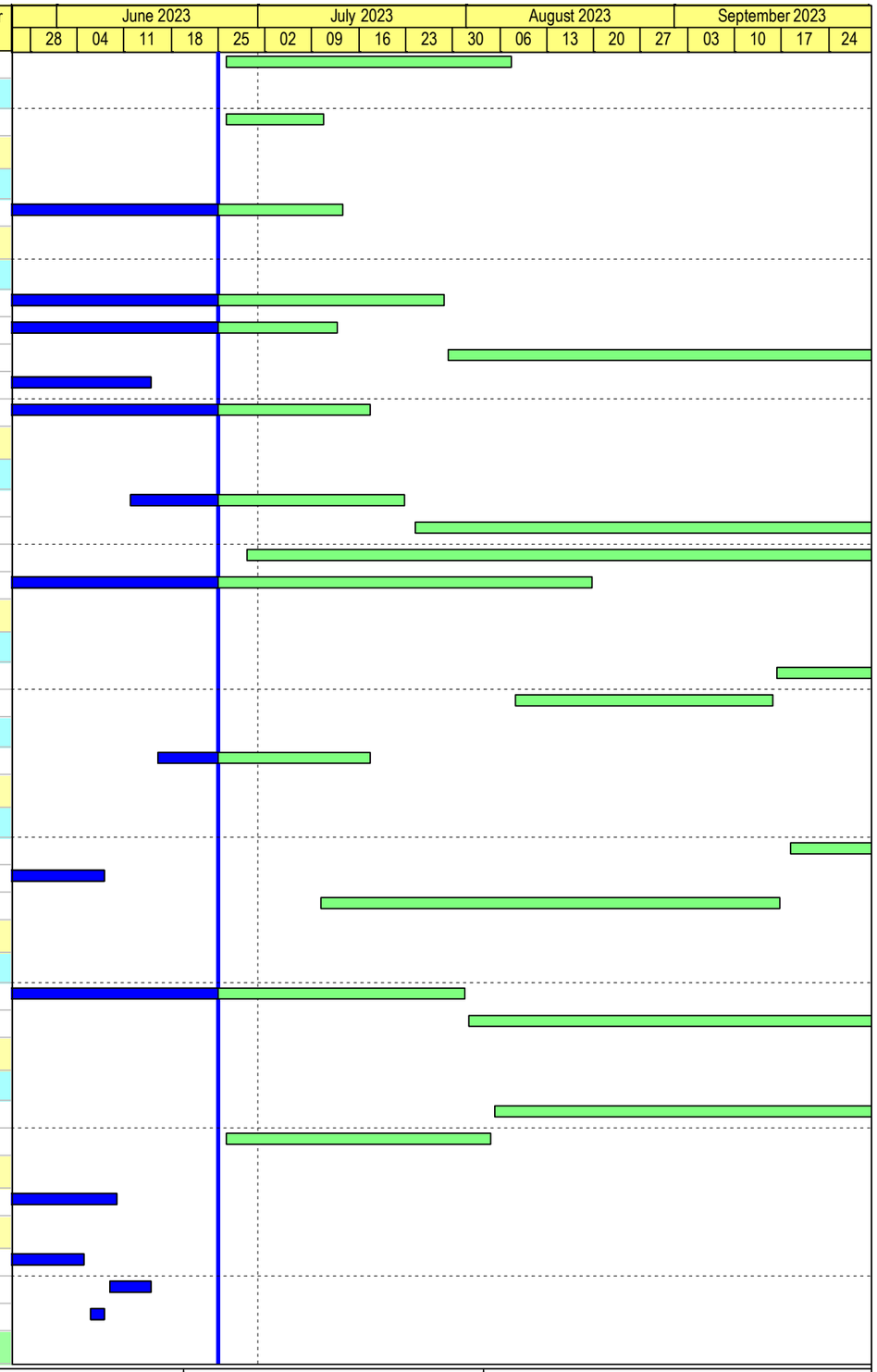
S14P1f-1040	Prepare Arsenic Assessment Report	36	26-Jun-23	07-Aug-23	446	WD(6d)
Interim Community Liaison Centre (CLC)						
S14P1f-2040	Dismantling of interim CLC	12	26-Jun-23	10-Jul-23	446	WD(6d)
Portion 9c in Area S1 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P9c-1014	Tree felling	15	19-Jul-21 A	13-Jul-23	353	WD(6d)
Portion 13 in Area S4 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P13-1012	Approval & Acceptance of Tree felling Application	28	23-May-23 A	28-Jul-23	6	WD(6d)
S14P13-1030	Environmental ground investigation and laboratory test (2 / 7 EGI completed)	14	10-Feb-23 A	12-Jul-23	20	WD(6d)
S14P13-1020	Remaining Site clearance & Tree felling	70	29-Jul-23	20-Oct-23	6	WD(6d)
S14P13-1080	Set up Containment Area, Removal and Disposal of Asbestos and Clean up Works	0	15-Mar-23 A	15-Jun-23 A		WD(6d)
S14P13-1014	Site clearance	18	15-May-23 A	17-Jul-23	16	WD(6d)
Cycle Track from Area H to Area N						
Underground Utilities underneath Cycle Track						
S14CT-1010	Construct Underground Primary Drainage in Portion 7 (0 / 1 MH completed)	23	12-Jun-23 A	22-Jul-23	29	WD(6d)
S14CT-1010.04	Construct Underground Sewerage in Portion 7 (0 / 2 MH completed)	90	24-Jul-23	08-Nov-23	29	WD(6d)
S14CT-1028	Laying Underground Watermain in Portion 5 - Stage 1	90	29-Jun-23*	14-Oct-23	151	WD(6d)
S14CT-1044	Laying Underground Watermain in Portion 9a	47	12-May-23 A	19-Aug-23	452	WD(6d)
Portion 1b (Soil Treatment & Civil Works)						
Soil Treatment						
S14P1b-1204	Backfilling to the formation levels	100	16-Sep-23	17-Jan-24	485	WD(6d)
S14P1b-1202	Remove soil (original assumed 4992m3) (0 / 4 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	34	08-Aug-23	15-Sep-23	412	WD(6d)
Civil Works						
S14P1b-1314	Laying Underground Watermain	18	16-Jun-23 A	17-Jul-23	637	WD(6d)
Portion 3 (Soil Treatment & Civil Works)						
Civil Works						
S14P3-1304	Pressure test for Fresh & Flushing watermains	30	18-Sep-23	25-Oct-23	651	WD(6d)
S14P3-1300	Underground Drainage (1 / 1 MH completed)	0	16-Dec-22 A	08-Jun-23 A		WD(6d)
S14P3-1302	Underground Fresh & Flushing watermains (around 100m)	60	10-Jul-23	16-Sep-23	584	WD(6d)
Portion 5 (Soil Treatment & Civil Works)						
Civil Works						
S14P5-1300	Underground Drainage (1 / 2 MH completed)	30	16-Dec-22 A	31-Jul-23	484	WD(6d)
S14P5-1302	Underground Fresh & Flushing watermains (around 100m)	60	01-Aug-23	11-Oct-23	484	WD(6d)
Portion 1e (Soil Treatment)						
Soil Treatment						
S14P1e-2080	Backfilling to the formation levels	90	05-Aug-23	21-Nov-23	628	WD(6d)
S14P1e-2070	Remove soil (original assumed 860m3) (0 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	34	26-Jun-23	04-Aug-23	448	WD(6d)
Portion 7 (Soil Treatment & Civil Works)						
S14P7-6080	Construct Haul Road for MTR Access (PMI 273)	0	20-May-23 A	10-Jun-23 A		WD(6d)
Additional Land U2						
S14ALU2-3020	Approval & Acceptance of Tree felling Application	0	23-May-23 A	05-Jun-23 A		CD(7d)
S14ALU2-4010	Construction of 525 mm Stepped Channel	0	09-Jun-23 A	15-Jun-23 A		WD(6d)
S14ALU2-3030	Site clearance & Tree felling	0	06-Jun-23 A	08-Jun-23 A		WD(6d)
Section 15						



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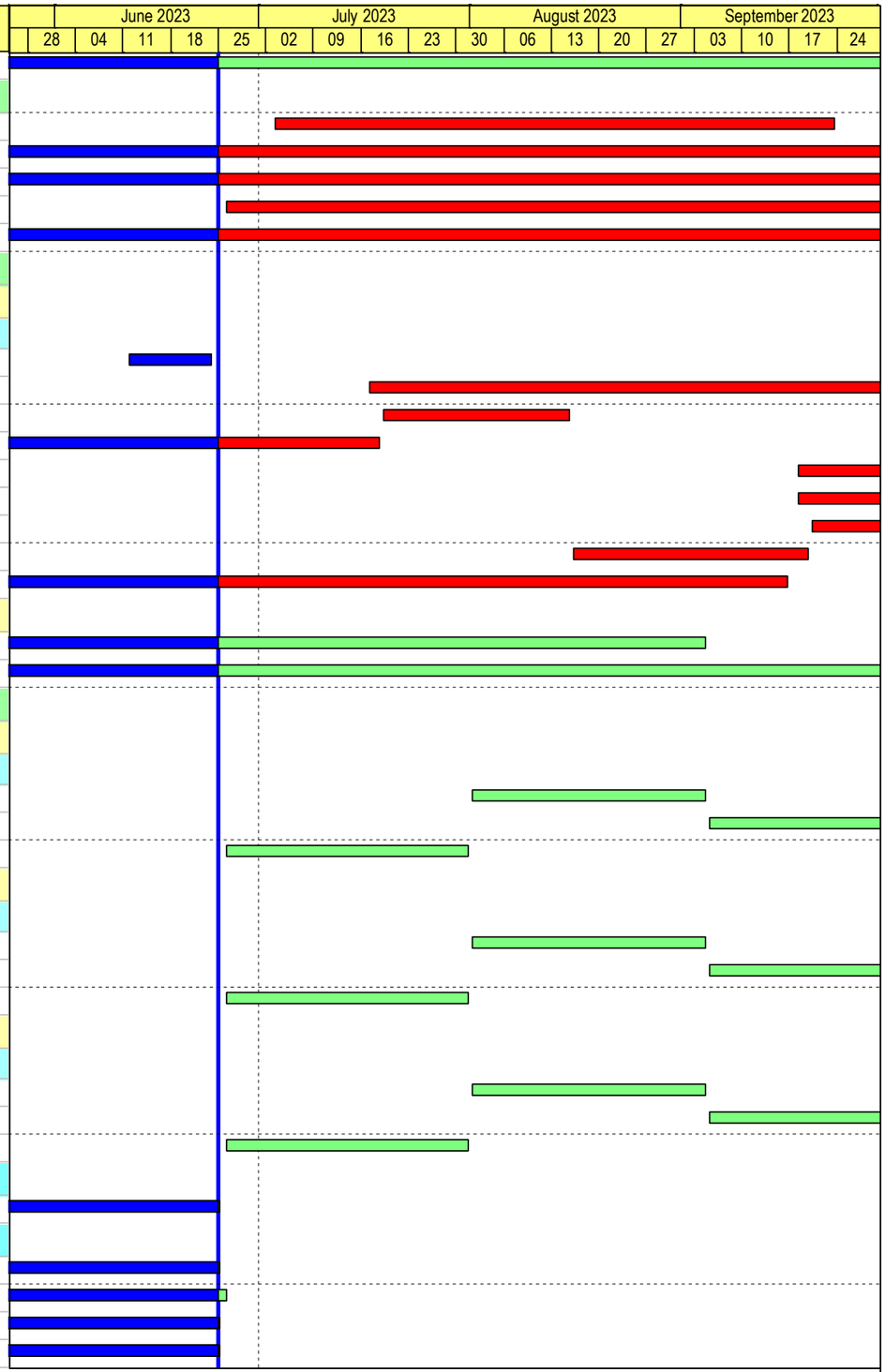
S15-1000	Presevation and protection of tree	900	06-Dec-19 A	10-Dec-25	27	CD(7d)
Section 18 (Subject to excision)						
S18-1030	Watermain laying work in Portion 3	72	03-Jul-23	23-Sep-23	-71	WD(6d)
S18-1040	Watermain laying work in Portion 5	140	20-Sep-21 A	14-Oct-24	-94	WD(6d)
S18-1050	Watermain laying work in Portion 6a & 6b	150	18-Jul-22 A	06-Jul-24	-176	WD(6d)
S18-1075	Watermain laying work in Portion 8a	350	26-Jun-23	27-Aug-24	-108	WD(6d)
S18-1070	Watermain laying work in Portion 9b	236	12-Jan-23 A	15-Mar-25	-315	WD(6d)
Section 20 (Subject to excision)						
Construction of Pedestrian Subway cum Cycle Track Stage 2 (South of Castle Peak Road)						
Civil and Structural Works						
S20S2-7320.30	Bay No. 1 to 3 - Sheet Piling for Bay 3 (South side)	0	12-Jun-23 A	24-Jun-23 A		WD(6d)
S20S2-7320.40	Bay No. 1 to 3 - Site Formation	66	17-Jul-23	03-Oct-23	-713	WD(6d)
S20S2-7462	Bay No. 10 - RC Structure (Walls)	24	19-Jul-23	15-Aug-23	-291	WD(6d)
S20S2-7482	Bay No. 11 - RC Structure (Walls)	19	03-Apr-23 A	18-Jul-23	-291	WD(6d)
S20S2-7810	Bay No. 14 - Excavation, Blinding & Waterproofing	15	18-Sep-23	06-Oct-23	-692	WD(6d)
S20S2-7320.10	Bay No. 4 to 8 - Prebored For Sheet Piling	48	18-Sep-23	15-Nov-23	-743	WD(6d)
S20S2-7504	Bay No. 9a - Excavation, Blinding & Waterproofing	10	20-Sep-23	03-Oct-23	-291	WD(6d)
S20S2-7502	Bay No. 9b - RC Structure (Walls)	30	16-Aug-23	19-Sep-23	-291	WD(6d)
S20S2-7320	ELS, Excavation & UU suspension works for subway	70	28-Apr-22 A	16-Sep-23	-743	WD(6d)
E&M, Lift Installation and Finishing Work for Pedestrian Subway						
S20ELF-1010	Design and Approval for Lift, Lighting and E&M works	72	25-Oct-22 A	04-Sep-23	438	CD(7d)
S20ELF-1020	Submission and Approval of Lighting, E&M plants & materials	54	17-Feb-23 A	28-Oct-23	438	CD(7d)
Section 21 (Subject to excision)						
Portion 1b in Area M (Soil Treatment)						
Preparation work						
S21P1b-1012	Approval & Acceptance of Tree felling Application	30	01-Aug-23	04-Sep-23	251	WD(6d)
S21P1b-1020	Site Clearance & Tree Felling	60	05-Sep-23	16-Nov-23	251	WD(6d)
S21P1b-1010	Tree survey and prepare tree felling and transplant report	30	26-Jun-23	31-Jul-23	251	WD(6d)
Portion 1d in Area M (Soil Treatment & Demolition of Existing CLC)						
Preparation work						
S21P1d-1012	Approval & Acceptance of Tree felling Application	30	01-Aug-23	04-Sep-23	251	WD(6d)
S21P1d-1020	Site Clearance & Tree Felling	60	05-Sep-23	16-Nov-23	251	WD(6d)
S21P1d-1010	Tree survey and prepare tree felling and transplant report	30	26-Jun-23	31-Jul-23	251	WD(6d)
Portion 11a in Area M (Soil Treatment)						
Preparation work						
S21P11a-1012	Approval & Acceptance of Tree felling Application	30	01-Aug-23	04-Sep-23	246	WD(6d)
S21P11a-1020	Site Clearance & Tree Felling	60	05-Sep-23	16-Nov-23	246	WD(6d)
S21P11a-1010	Tree survey and prepare tree felling and transplant report	30	26-Jun-23	31-Jul-23	246	WD(6d)
8.0 - PMI / CE						
PC-1012	Change to the Area of Area M (PMI 160, CE 168)	0	22-Dec-21 A	25-Jun-23	310	CD(7d)
9.0 - Major EWN / CNE						
EC-1120	Additional Reqm'ts for Demolition of Temp Structures Existing Sawmill Area S2 Portion 1C (CNE 091) (CE 259)	0	25-Oct-22 A	25-Jun-23	595	CD(7d)
EC-1129	Additional Requirements for all the Lifting Operations within the Working Areas (EWN 086)	0	13-Feb-23 A	26-Jun-23	1050	WD(6d)
EC-1089	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0	27-Apr-22 A	25-Jun-23	-246	CD(7d)
EC-1087	Change of Road Layout of Ho Sheung Heung Road after the Works by DSD Contract DC/2019/06 (CNE 072b)	0	20-Apr-22 A	25-Jun-23	-568	CD(7d)



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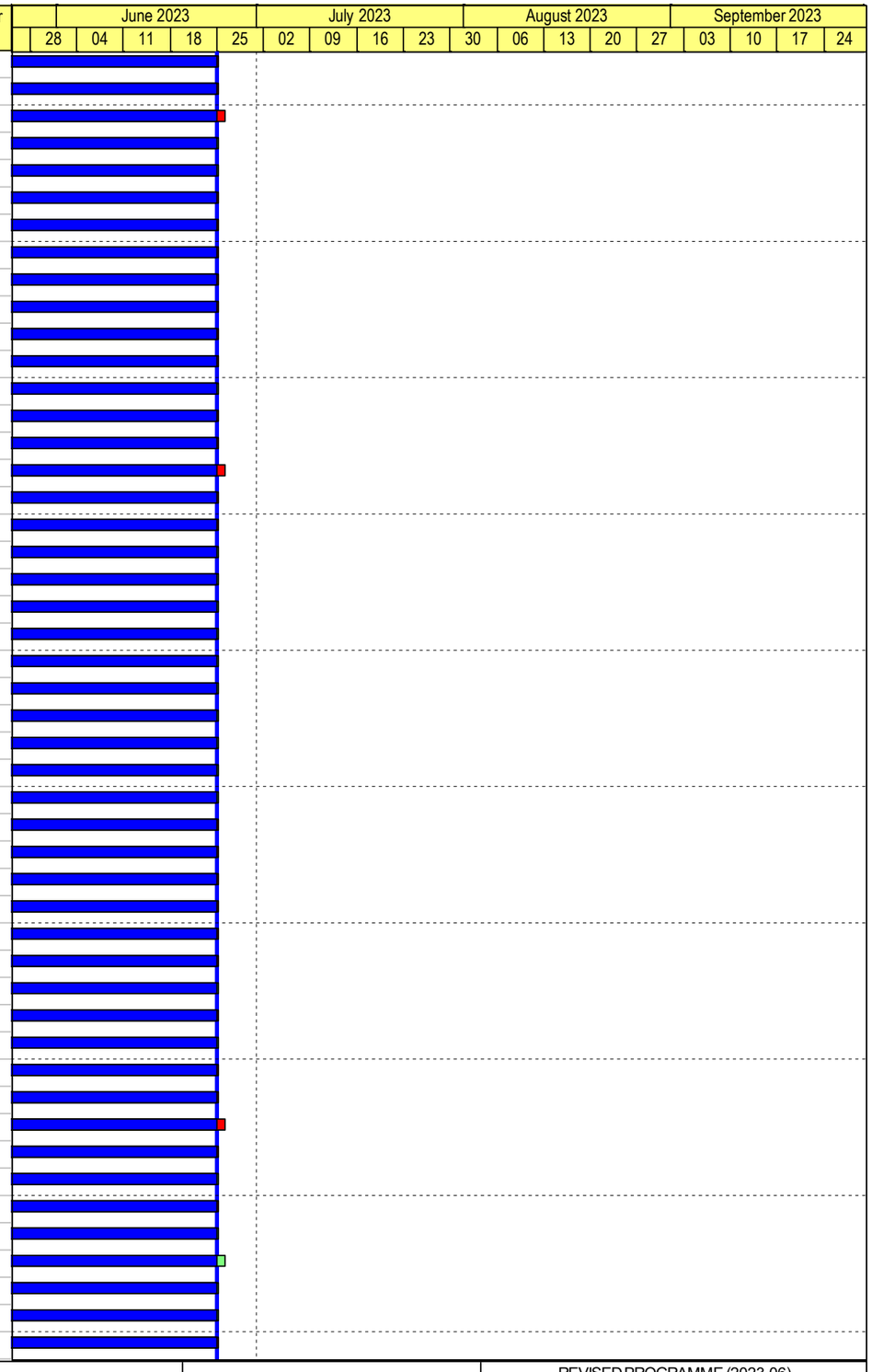
EC-1067	Conflict between Drainage Works and Existing Twin DN2200 Dongjiang Water Mains (CNE 051) (CE 150)	0	29-Nov-21 A	25-Jun-23	-537	CD(7d)
EC-1068	Conflict between Drainage Works and Water Mains in Road W1 (CNE 052)	0	02-Dec-21 A	25-Jun-23	-209	CD(7d)
EC-1130	Conflict between the Existing Underground Utilities with the Proposed Pak Shek Au Pedestrain Subway (CNE 097)	0	03-Jan-23 A	26-Jun-23	-546	WD(6d)
EC-1079	Delay in Supply of Precast Concrete Pipe due to the Severe Outbreak of Omicron (EWN 056)	0	16-Feb-22 A	25-Jun-23	1292	CD(7d)
EC-1045	Delay in the Access to and Use of Portion 1b of the Site (CNE 033) (CE 107)	0	06-Jul-21 A	25-Jun-23	310	CD(7d)
EC-1046	Delay in the Access to and Use of Portions 1a & 12 of the Site (CNE 034) (CE 108)	0	06-Jul-21 A	25-Jun-23	-920	CD(7d)
EC-1101	Delay to the Diversion of Existing Fresh Watermains along/near Ma Tso Lung Road at Portion 9b of the Site (EWN 076)	0	19-Jul-22 A	25-Jun-23	-306	CD(7d)
EC-1125	Delay to the Diversion/ Modification of Existing HKT Pillar Boxes & Associated Ducts Ma Tso Lung Road Por. 9b (CNE 096)	0	14-Nov-22 A	25-Jun-23	-409	CD(7d)
EC-1100	Delay to the Diversion/Modificaton of Existing HKT Pillar Boxes & Associated ducts in Ma Tso Lung Rd (EWN 075) (CNE 096)	0	15-Jul-22 A	25-Jun-23	-306	CD(7d)
EC-1102	Delay to the Relocation of Existing Fire Hydrant in Ma Tso Lung Road at Portion 9b of the Site (EWN 077)	0	19-Jul-22 A	25-Jun-23	-306	CD(7d)
EC-1099	Delayed to the Removal and or Diversion of Existing CLP Cable and Facilities in Portion 9b of the Site (EWN 073)	0	31-Mar-22 A	25-Jun-23	-537	CD(7d)
EC-1039	Design Change on Road W1 (EWN 025)	0	22-Mar-21 A	25-Jun-23	-151	CD(7d)
EC-1088	Design Changes to the Permanent Street Lighting Works (CNE 074)	0	04-Mar-22 A	25-Jun-23	1292	CD(7d)
EC-1050	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0	17-Sep-21 A	25-Jun-23	-537	CD(7d)
EC-1042	Details of DCS pipe at D4-1 & D5 Road (EWN 030)	0	21-May-21 A	25-Jun-23	-107	CD(7d)
EC-1137	Discrepancies between BQ and Contract Dwgs Cycle Track Subway Mass Concrete Fill for protection of WP Membrane (CNE 1	0	28-Feb-23 A	26-Jun-23	-291	WD(6d)
EC-1049	Entrustment of Works for Installation of District Cooling System (DCS) pipelines along Road D4-1 (EWN 033)	0	18-Aug-21 A	25-Jun-23	-443	CD(7d)
EC-1064	Extra Time on Production and Delivery of Road Lighting Products (EWN 51)	0	13-Dec-21 A	25-Jun-23	-97	CD(7d)
EC-1122	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0	08-Nov-22 A	25-Jun-23	137	CD(7d)
EC-1026	Handling of Unlawful Occupied Property Affected by the Works (CNE No. 014)	0	21-Aug-20 A	25-Jun-23	1292	CD(7d)
EC-1027	Handling of Unlawful Occupied Property Affected by the Works within the SIte (CNE No. 015)	0	31-Aug-20 A	25-Jun-23	1292	CD(7d)
EC-1106	Indemant Weather in June 2022 (CNE 080) (CE 216)	0	02-Jun-22 A	25-Jun-23	1292	CD(7d)
EC-1112	Indement Weather in August 2022 (CNE 087) (CE 236)	0	03-Aug-22 A	25-Jun-23	1292	CD(7d)
EC-1108	Indement Weather in July 2022 (CNE 082) (CE 227)	0	02-Jul-22 A	25-Jun-23	1292	CD(7d)
EC-1104	Indement Weather in May 2022 (CNE 078) (CE 212)	0	11-May-22 A	25-Jun-23	1292	CD(7d)
EC-1116	Indement Weather in October 2022 (CNE 093) (CE 273)	0	07-Oct-22 A	25-Jun-23	1292	CD(7d)
EC-1114	Indement Weather in September 2022 (CNE 089) (CE 244)	0	19-Sep-22 A	25-Jun-23	1292	CD(7d)
EC-1056	Indement Weather on 8th October 2021 (CNE 036) (CE 163)	0	08-Oct-21 A	25-Jun-23	1292	CD(7d)
EC-1092	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track at Portion 2 (EWN 068)	0	25-May-22 A	25-Jun-23	-513	CD(7d)
EC-1086	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0	31-Mar-22 A	25-Jun-23	-537	CD(7d)
EC-1118	Increased Risk for Suspension of Pipe Jacking Flushing Watermains underneath MTRC Zone Portion 8b (EWN 080) (CNE 092)	0	18-Oct-22 A	25-Jun-23	-359	CD(7d)
EC-1117	Insufficient Design Information and Construction Details for the Works of Tentative NB02 (EWN 079) (CNE 090)	0	17-Oct-22 A	25-Jun-23	-59	CD(7d)
EC-1070	Insufficient Width of Road W1 for Accommodation of All Underground Utilities (CNE 056)	0	04-Jan-22 A	25-Jun-23	-151	CD(7d)
EC-1038	Late Access to and Use of Site of Portion 1e (EWN 024) (CNE 25) (CE 075)	0	06-Apr-21 A	25-Jun-23	-115	CD(7d)
EC-1007	Late Possession of remaining part of Portion 2 for soil nail works (CNE No. 008) (EWN No. 006) (CE 014)	0	06-Jan-20 A	25-Jun-23	1292	CD(7d)
EC-1005	Late Possession of Site of Portion 3 (CNE No. 005) (CE 015)	0	06-Apr-20 A	25-Jun-23	-90	CD(7d)
EC-1015	Late Possession of Site of Portions 1d & 11a (CNE No. 009) (CE 026)	0	06-Jul-20 A	25-Jun-23	304	CD(7d)
EC-1013	Late Possession of Site of Portions 9b & 9d (CNE No. 007) (EWN No. 011) (CE 014) (CE 022)	0	06-Jul-20 A	25-Jun-23	-409	CD(7d)
EC-1003	Late Possession of Site of Portions 9c (CNE No. 003) (CE 013)	0	06-Apr-20 A	25-Jun-23	-47	CD(7d)
EC-1131	Late Provision of Add Work Area for the Construction of Drainages and Slopes Outside Site Boundary Portion 9b (CNE 098)	0	03-Jan-23 A	26-Jun-23	-85	WD(6d)
EC-1090	Part of Portion 9b of the Site (near eastern end of Road D5) occupied by the Local Villagers (EWN 066)	0	03-May-22 A	25-Jun-23	-65	CD(7d)
EC-1080	Possible Suspension of Concrete Supply due to the Severe Outbreak of COVID-19 (EWN 059)	0	02-Mar-22 A	25-Jun-23	1292	CD(7d)
EC-1094	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0	23-May-22 A	25-Jun-23	-142	CD(7d)
EC-1123	Potential Delay due to Aggregate Supply Chain Shortage before Chinese New Year 2023 (EWN 082)	0	22-Nov-22 A	25-Jun-23	1292	CD(7d)
EC-1128	Potential Delay due to Shortage Supply of Manpower after Chinese New Year 2023 (EWN 085)	0	18-Jan-23 A	26-Jun-23	1050	WD(6d)
EC-1124	Potential Delay due to the Increased Difficulties and Uncertainties in Conc Supply in Coming Years (EWN 084) (CNE 100)	0	14-Dec-22 A	25-Jun-23	1292	CD(7d)
EC-1053	Potential Delay on Production and Supply of Precast Concrete Pipes (EWN 040) (CNE 047)	0	06-Oct-21 A	25-Jun-23	62	CD(7d)
EC-1076	Potential Delay on Supply of Steel Moulds for Construction of Fresh Water Service Reservoir(FWSR) (EWN 053)	0	18-Feb-22 A	25-Jun-23	-34	CD(7d)



Build King – Richwell Engineering Joint Venture

- Planned Work
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- Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-06)

Data Date: 25-Jun-23

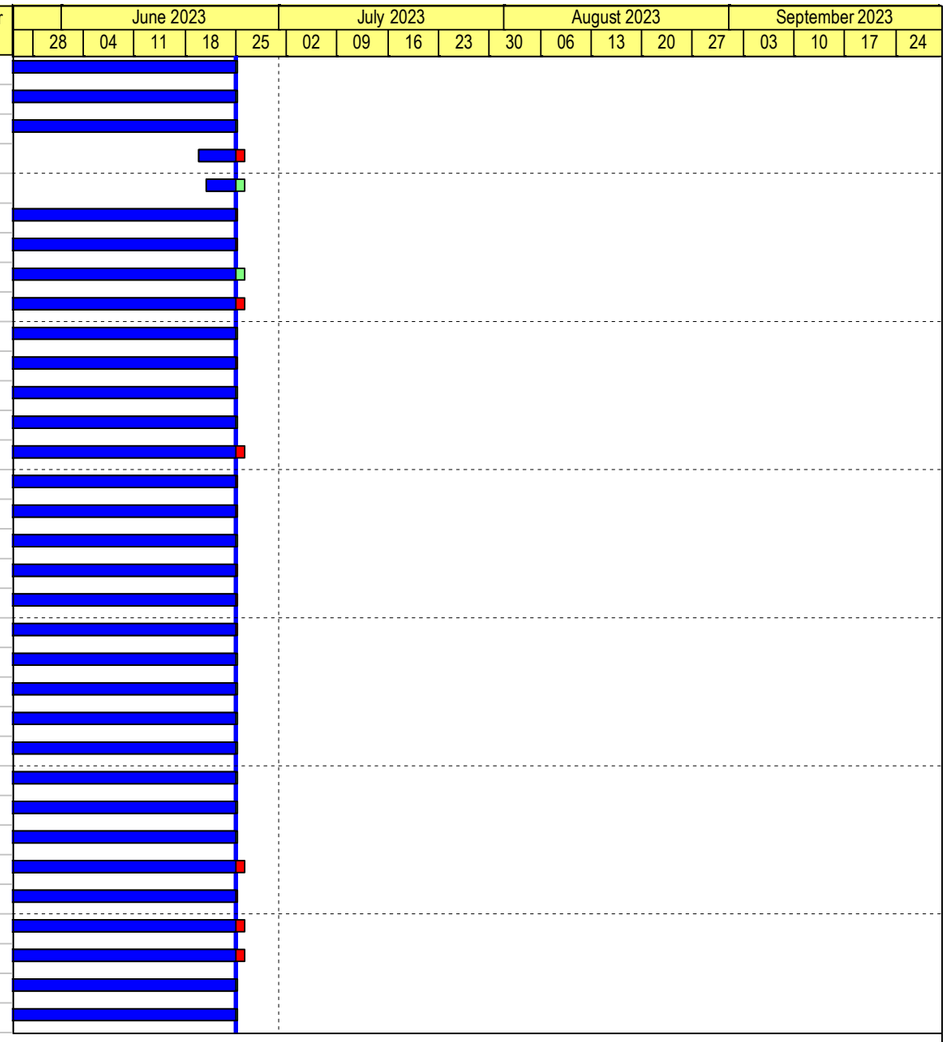
Run Date: 30-Jun-2023

Project ID: ND201901-RP-40
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2023-06)

Date	Revision	Checked	Approved
30-Jun-23	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
EC-1063	Potential Late Access to and Use of the Site (Portions 13) (EWN 50) (CNE 057)	0	13-Dec-21 A	25-Jun-23	1292	CD(7d)
EC-1062	Potential Late Access to and Use of the Site (Portions 1c & 9a) (EWN 49) (CNE 058) (CE 175)	0	13-Dec-21 A	25-Jun-23	86	CD(7d)
EC-1110	Provision of Fill Materials for Contract Nos. ND/2019/05 and ND/2019/07 (CNE 084)	0	17-Aug-22 A	25-Jun-23	1292	CD(7d)
EC-1144	Provision of Spare Pipes for the Proposed Watermains adopting Trenchless Construction Method at Road D4 (EWN 091)	0	20-Jun-23 A	26-Jun-23	-435	WD(6d)
EC-1148	Re-provision of Temporary Noise Barriers along Castle Peak Road - Chau Tau in Area K at Portion 4 of the Site (CNE 114)	0	21-Jun-23 A	26-Jun-23	1050	WD(6d)
EC-1085	Requesting for Additional Concrete Vehicular Access by the Local Villager adjacent 9b of the Site (EWN 064)	0	25-Apr-22 A	25-Jun-23	-175	CD(7d)
EC-1071	Revised Construction Drawings of Fresh Water Service Reservoir (CNE 067, 067a)	0	14-Dec-21 A	25-Jun-23	-34	CD(7d)
EC-1138	Revised Drawings for the Construction of Street Furniture in various Positions of the Site (CNE 108)	0	15-Mar-23 A	26-Jun-23	1050	WD(6d)
EC-1132	Revised Drawings for the Noise Barrier NB02 in Portion 6a of the Site (CNE 101)	0	03-Jan-23 A	26-Jun-23	-48	WD(6d)
EC-1119	Revised Noise Barrier Works at Road D3 in Portion 1C of the Site (EWN 081)	0	19-Oct-22 A	25-Jun-23	278	CD(7d)
EC-1109	Revised Sewerage System along Road D4 and D5 at Portion 9b of the Site (CNE 083)	0	02-Aug-22 A	25-Jun-23	-409	CD(7d)
EC-1066	Shortage of Aggregate Supply before Chinese New Year 2022 (CNE 048) (EWN 001.6, 001.8)	0	29-Nov-21 A	25-Jun-23	1292	CD(7d)
EC-1052	Shortage of Cement Supply due to "Energy Consumption Dual Control Policy" (EWN 039) (CNE 049)	0	06-Oct-21 A	25-Jun-23	1292	CD(7d)
EC-1139	Strong Objection for a Grave on the Construction Works in the vicinity of the Road P1-1 and Roundabout C3 at 1 (CNE 109)	0	20-Mar-23 A	26-Jun-23	-370	WD(6d)
EC-1043	Strong Objection on the Construction of Fresh and Flushing Reservoir at Portions 8a and 8b (EWN 031) Maintenance Access	0	09-Jun-21 A	25-Jun-23	-485	CD(7d)
EC-1006	Strong Objection on the Construction of Service Reservoirs at Portions 8a & 8b (CNE No. 006) (EWN No. 005) (CE 019)	0	18-Mar-20 A	25-Jun-23	-485	CD(7d)
EC-1061	Suspension of Concretes Supply due to Cement Shortage (EWN 045) (CNE 046)	0	02-Nov-21 A	25-Jun-23	1292	CD(7d)
EC-1081	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0	14-Mar-22 A	25-Jun-23	-58	CD(7d)
EC-1002	Suspension of Works at Part of Portions 5 & 6a (in Area A, N & C1) (CNE No. 002) (EWN No. 004) (CE 018)	0	09-Mar-20 A	25-Jun-23	-443	CD(7d)
EC-1022	Suspension of Works at Part of Portions 9c (CNE no. 010) (CE 030)	0	21-Jul-20 A	25-Jun-23	-47	CD(7d)
EC-1065	Temporary Stockpile for High Arsenic-Containing (HAC) Soil from HKHS & HD Sites at Portion 1c (EWN 052)	0	04-Jan-22 A	25-Jun-23	595	CD(7d)
EC-1059	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0	22-Oct-21 A	25-Jun-23	1292	CD(7d)
EC-1105	Tropical Cyclone Warning Signal No.8 from 1st to 2nd July 2022 (CNE 079) (CE 214)	0	01-Jul-22 A	25-Jun-23	1292	CD(7d)
EC-1113	Tropical Cyclone Warning Signal No.8 from 24th to 25th Auguest 2022 (CNE 086) (CE 232)	0	24-Aug-22 A	25-Jun-23	1292	CD(7d)
EC-1121	Tropical Cyclone Warning Signal No.8 from 2nd to 3rd November 2022 (CNE 094) (CE 274)	0	02-Nov-22 A	25-Jun-23	1292	CD(7d)
EC-1058	Tropical Cyclone Warning Signal No.8 on 13th October 2021 (CNE 040) (CE 165)	0	12-Oct-21 A	25-Jun-23	1292	CD(7d)
EC-1057	Tropical Cyclone Warning Signal No.8 on 9th October 2021 (CNE 039) (CE 164)	0	09-Oct-21 A	25-Jun-23	1292	CD(7d)
EC-1134	Unavailability for Provision of Access to and Use of Portions 15 of the Site (CNE 104)	0	06-Jan-23 A	26-Jun-23	-74	WD(6d)
EC-1072	Unavailability of Vehicular Access and Movement towards Receiving Pit (CNE 068)	0	29-Dec-21 A	25-Jun-23	-565	CD(7d)
EC-1135	Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)	0	29-Mar-23 A	26-Jun-23	-429	WD(6d)
EC-1127	Unrecognized Construction Works for Newly Underground Cables and Facilities conducted by CLP at Portion 9b (EWN 083)	0	03-Jan-23 A	26-Jun-23	-423	WD(6d)
EC-1051	Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038) (CNE 049)	0	27-Sep-21 A	25-Jun-23	453	CD(7d)
EC-1075	Works affecred by the Sever Outbreak of Omicron (CNE 073) (EWN 058)	0	25-Feb-22 A	25-Jun-23	1292	CD(7d)



Build King – Richwell Engineering Joint Venture

- Planned Work
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ND/2019/01 - 3 Month Rolling Programme (2023-06)

Data Date: 25-Jun-23

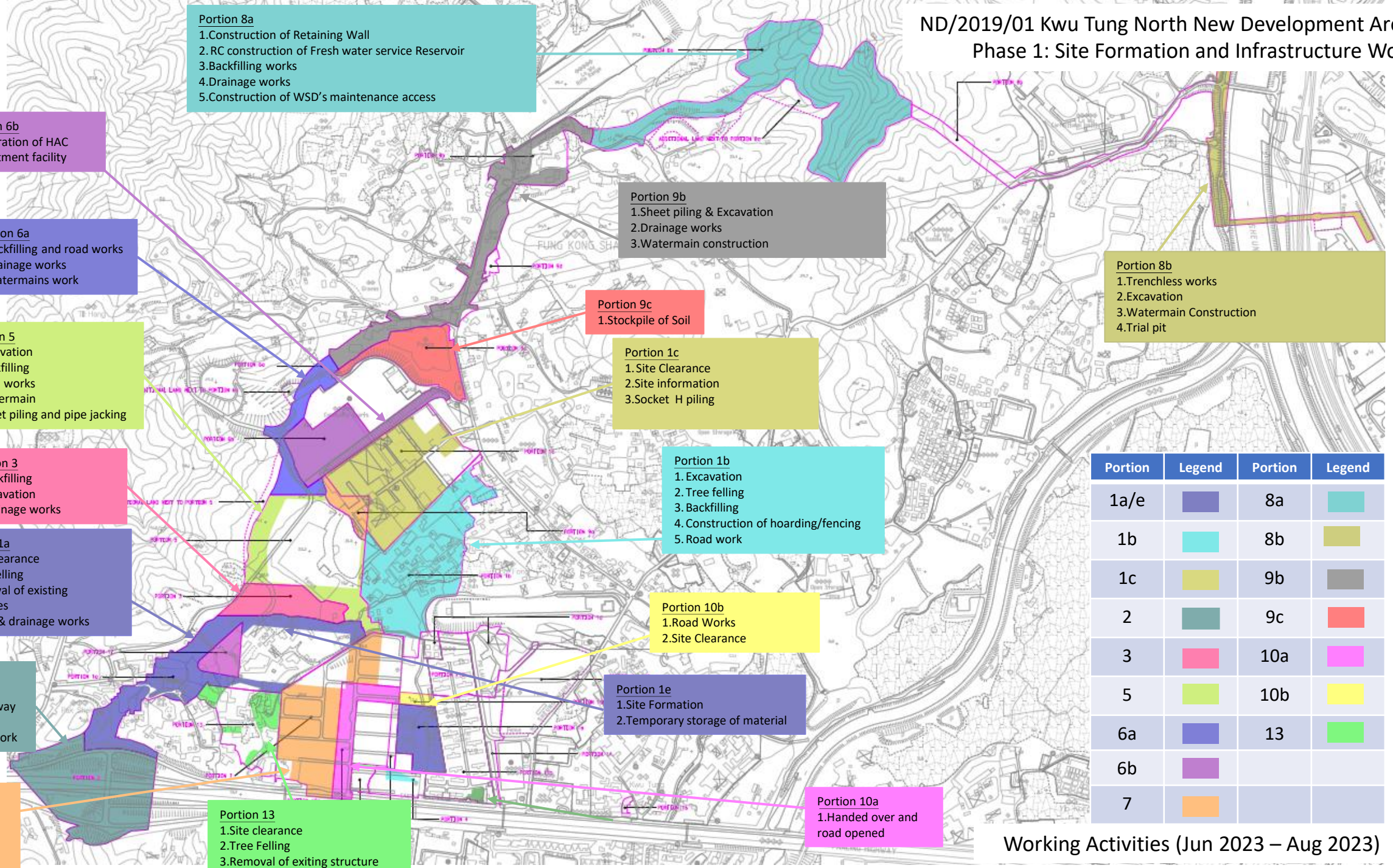
Run Date: 30-Jun-2023

Project ID: ND201901-RP-40
Layout: ND201901-3MRP with logo

REVISED PROGRAMME (2023-06)

Date	Revision	Checked	Approved
30-Jun-23	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/e		8a	
1b		8b	
1c		9b	
2		9c	
3		10a	
5		10b	
6a		13	
6b			
7			

Working Activities (Jun 2023 – Aug 2023)

Construction Programme of ND/2019/02

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1	ND-2019-02 KTNNDA Phase 1:Roads and Drains between Kwu Tung North New Development & S		2528	1344	03-Feb-20 A	05-Jan-27	0	46.83%	
2	Programme Data		2528	1344	03-Feb-20 A	05-Jan-27	0	46.83%	
3	Date for commencement		11	0	03-Feb-20 A	17-Feb-20 A		100%	ND/2019/02 - 7D (without PH)
4	PD1000	Contract Date (LOA:3 Feb 2020)	0	0	03-Feb-20 A			100%	ND/2019/02 - 7D (without PH)
5	PD1010	Starting Date (17 Feb 2020)	0	0	17-Feb-20 A			100%	ND/2019/02 - 7D (without PH)
6	Access Dates		1244	0	18-Mar-20 A	20-Jun-24	743	100%	ND/2019/02 - 7D (without PH)
7	PD1100	Portion 1 (90 days after Starting Date) (17 May 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
8	PD1105	Portion 2 (90 days after Starting Date) (17 May 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
9	PD1110	Portion 3 (60 d after Starting Date) (17 Apr 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
10	PD1112	Portion 4 (60 d after Starting Date) (17 Apr 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
11	PD1113	Portion 5 (60 d after Starting Date) (17 Apr 20)	0	0	16-Apr-20 A			100%	ND/2019/02 - 7D (without PH)
12	PD1114	Portion 8 (60 d after Starting Date) (17 Apr 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
13	PD1115	Portion 9 (60 d after Starting Date) (17 Apr 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
14	PD1120	Portion 6 (1585 d after Starting Date) (20 Jun 24)	0	0	20-Jun-24*		0	0%	ND/2019/02 - 7D (without PH)
15	PD1130	Portion 7 (183 d after Starting Date) (18 Aug 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
16	PD1131	Portion 10 (183d after Starting Date) (18 Aug 20)	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
17	PD1132	Portion 11 (183d after Starting Date) (18 Aug 20)	0	0	30-Nov-20 A			100%	ND/2019/02 - 7D (without PH)
18	PD1140	WA 1 (365 d after Starting Date) (16 Feb 21)	0	0	16-Feb-23 A			100%	ND/2019/02 - 7D (without PH)
19	PD1150	WA 2 (30 d after Starting Date) (18 Mar 20)	0	0	18-Mar-20 A			100%	ND/2019/02 - 7D (without PH)
20	Completion Obligation		1052	656	30-Nov-22 A	08-Jul-26	145	37.64%	ND/2019/02 - 7D (without PH)
21	The Whole of the Works		0	0	22-Oct-25	22-Oct-25	-241	0%	ND/2019/02 - 7D (without PH)
22	PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0	0		22-Oct-25*	-241	0%	ND/2019/02 - 7D (without PH)
23	Sectional Completion		1052	648	30-Nov-22 A	08-Jul-26	145	38.4%	ND/2019/02 - 7D (without PH)
24	PD1040	Section 1 (30 Nov 22) - Works in P1	0	0		30-Nov-22 A		100%	ND/2019/02 - 7D (without PH)
25	PD1050	Section 2 (1773 days after starting date) (25 Dec 24) - Works in P2,3,4,5,6 & 7	0	0		22-Oct-25*	-241	0%	ND/2019/02 - 7D (without PH)
26	PD1060	Section 3 (1110 days after starting date) (3 Mar 23) - Works P9	0	0		18-Apr-24*	-330	0%	ND/2019/02 - 7D (without PH)
27	PD1070	Section 4 (1773 days after starting date) (25 Dec 24) - Works in P10	0	0		08-Jul-25*	-155	0%	ND/2019/02 - 7D (without PH)
28	PD1080	Section 4A (2138 days after starting date) (25 Dec 25) - Establishment Works in P1,2,3 & 4	0	0		08-Jul-26*	-155	0%	ND/2019/02 - 7D (without PH)
29	PD1090	Section 5 (1584 days after starting date) (19 Jun 24) - Works in P11	0	0		06-Jul-24*	-14	0%	ND/2019/02 - 7D (without PH)
30	Specified Parts of the works		0	0	08-Apr-24	08-Apr-24	-54	0%	ND/2019/02 - 7D (without PH)
31	PD1030	Portion 10 (1323 days after starting date) - Works in P10 excl. switch back to permanent sewerage system	0	0		08-Apr-24*	-54	0%	ND/2019/02 - 7D (without PH)
32	Compensation Event		49	0	25-Feb-21 A	24-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
33	CE-017 Unforseen Ground Condition At Footbridge FK2		0	0	25-Feb-21 A	25-Feb-21 A		0%	ND/2019/02 - 6D (with PH)
34	CE0017-1	CE-017 Unforeseen Ground Condition at Footbridge FK2	0	0	25-Feb-21 A			100%	ND/2019/02 - 6D (with PH)
35	CE-018 Unforseen Ground Condition At Visitor Center		0	0	25-Feb-21 A	25-Feb-21 A		0%	ND/2019/02 - 6D (with PH)
36	CE0018-1	CE-018 Unforeseen Ground Condition at visitor Centre	0	0	25-Feb-21 A			100%	ND/2019/02 - 6D (with PH)
37	CE-023 Revised Alignment for Drainage and Sewerage Pipes outside Future CLP ESS Site		49	0	12-Apr-21 A	31-May-21 A		100%	ND/2019/02 - 6D (with PH)
38	CE0023-1	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site - PMI 009 received	0	0	12-Apr-21 A			100%	ND/2019/02 - 6D (with PH)
39	CE0023-2	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site	0	0	31-May-21 A			100%	ND/2019/02 - 6D (with PH)
40	CE-026 Stage 1 Advanced Works for Extension of Cycle Track Outside Dills Corner Garden		0	0	17-May-21 A	05-Oct-21 A		0%	ND/2019/02 - 6D (with PH)
41	CE0026-1	CE-026 Extension of Cycle Track Outside Dills Corner Garden - PMI 010 received	0	0	17-May-21 A			100%	ND/2019/02 - 6D (with PH)
42	CE0026-2	CE-026 Extension of Cycle Track Outside Dills Corner Garden	0	0	17-May-21 A	05-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
43	CE-067 Revised Alignment for drainage at DSD maintenance access (SMH_KT6005A to OF 6013)		0	0	29-Sep-21 A	29-Sep-21 A		0%	ND/2019/02 - 6D (with PH)
44	CE0067-1	CE-067 - PMI 049 received	0	0	29-Sep-21 A			100%	ND/2019/02 - 6D (with PH)
45	CE-068 Revised Alignment for drainage at DSD maintenance access (FMH_KT1.33A to 1.37A)		0	0	29-Sep-21 A	29-Sep-21 A		0%	ND/2019/02 - 6D (with PH)
46	CE0068-1	CE-068 - PMI 050 received	0	0	29-Sep-21 A			100%	ND/2019/02 - 6D (with PH)
47	CE-071 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.40A to 1.41A)		0	0	20-Oct-21 A	20-Oct-21 A		0%	ND/2019/02 - 6D (with PH)
48	CE0071-1	CE-071 - PMI 054 received	0	0	20-Oct-21 A			100%	ND/2019/02 - 6D (with PH)
49	CE-074 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.38A to 1.40A)		0	0	26-Oct-21 A	26-Oct-21 A		0%	ND/2019/02 - 6D (with PH)
50	CE0074-1	CE-074 - PMI 056 received	0	0	26-Oct-21 A			100%	ND/2019/02 - 6D (with PH)
51	CE-075 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.37A to 1.38A)		0	0	25-Oct-21 A	25-Oct-21 A		0%	ND/2019/02 - 6D (with PH)
52	CE0075-1	CE-075 - PMI 057 received	0	0	25-Oct-21 A			100%	ND/2019/02 - 6D (with PH)
53	CE-076 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.41A to 1.48A)		0	0	24-Nov-21 A	24-Nov-21 A		0%	ND/2019/02 - 6D (with PH)
54	CE0076-1	CE-076 - PMI 058 received	0	0	24-Nov-21 A			100%	ND/2019/02 - 6D (with PH)
55	Preliminaries		2288	1344	15-Feb-20 A	05-Jan-27	0	41.25%	
56	Subletting		801	0	15-Feb-20 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
57	SC-0000	Preparation and submission of Sub-letting procedure (ACC Clause C9(6))	25	0	15-Feb-20 A	13-Mar-20 A		100%	ND/2019/02 - 6D (with PH)
58	SC-0010	Review of Sub-letting procedure by PM	12	0	13-Mar-20 A	26-Mar-20 A		100%	ND/2019/02 - 6D (with PH)
59	SC-0020	Resubmission of Sub-Letting Procedure	6	0	26-Mar-20 A	01-Apr-20 A		100%	ND/2019/02 - 6D (with PH)
60	SC-0030	Acceptance of Sub-Letting Procedure	12	0	01-Apr-20 A	16-Apr-20 A		100%	ND/2019/02 - 6D (with PH)
61	Consultancy Services		0	0	16-Jun-20 A	14-Sep-20 A		0%	ND/2019/02 - 6D (with PH)
62	DIA-1000	Award of consultant - Drainage Impact Assessment	0	0		26-Jun-20 A		100%	ND/2019/02 - 6D (with PH)

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#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
63	ICE-1000	Award of consultant - Independent Checking Engineer	0	0		14-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
64	TTM-1000	Award of consultant - Temporary Traffic Management	0	0		16-Jun-20 A		100%	ND/2019/02 - 6D (with PH)
65	**Specialist Subcontractors**		752	0	16-Jun-20 A	31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
66	SC-0035	Award of subcontract - Trial Pits and Inspection Pits	0	0		16-Jun-20 A		100%	ND/2019/02 - 6D (with PH)
67	SC-0040	Award of subcontract - Utilities Detection	0	0		24-Jun-20 A		100%	ND/2019/02 - 6D (with PH)
68	SC-0060	Award of subcontract - Landscape (incl. Tree Protection, Tree survey, etc)	0	0		26-Jun-20 A		100%	ND/2019/02 - 6D (with PH)
69	SC-0070	Award of subcontract - Ground Investigation	0	0		28-Jul-20 A		100%	ND/2019/02 - 6D (with PH)
70	SC-1075	Award of subcontract - E&M Works	0	0		06-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
71	SC-1080	Award of subcontract - Earthworks & Roadworks	0	0		16-Feb-21 A		100%	ND/2019/02 - 6D (with PH)
72	SC-1085	Award of subcontract - Footbridge & Structure	0	0		19-Apr-21 A		100%	ND/2019/02 - 6D (with PH)
73	SC-1090	Award of subcontract - Pipejacking (Section under PMI-009)	0	0		28-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
74	SC-1095	Award of subcontract - Structural Design for Pai Lau	0	0		30-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
75	SC-1100	Award of subcontract - Bearing and MJ at Footbridge	0	0		08-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
76	SC-1105	Award of subcontract - Waterproofing	0	0		23-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
77	SC-1115	Award of subcontract - Lift Installation at Visitor Center	0	0		07-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
78	SC-1160	Award of subcontract - Pai Lau Construction	0	0		07-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
79	SC-1180	Award of subcontract - Dewatering Works for SPS	0	0		16-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
80	SC-1190	Award of subcontract - Specialist for lighting proposal at KT1.40A to KT1.41A	0	0		21-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
81	SC-1205	Award of subcontract - Construction of Temporary Sewerage System	0	0		30-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
82	SC-1210	Award of subcontract - Grout Curtain of SPS	0	0		23-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
83	SC-1215	Award of subcontract - Hard Landscape	0	0		31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
84	SC-1220	Award of subcontract - Soft Landscape	0	0		31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
85	**ABWF**		143	0	08-Sep-22 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
86	**Package 1 - Gold Success**		0	0	02-Dec-22 A	02-Dec-22 A		0%	ND/2019/02 - 6D (with PH)
87	SC-1195-1	Award of subcontract - ABWF works (Package 1 - Int / Ext Finishes, Brickwork and Plastering)	0	0		02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
88	**Package 2 - Gold Success**		0	0	02-Dec-22 A	02-Dec-22 A		0%	ND/2019/02 - 6D (with PH)
89	SC-1195-2	Award of subcontract - ABWF works (Package 2 - Painting)	0	0		02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
90	**Package 3 - Sanway**		0	0	08-Sep-22 A	08-Sep-22 A		0%	ND/2019/02 - 6D (with PH)
91	SC-1195-137	Award of subcontract - ABWF works (Package 3 - Timber Deck)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
92	SC-1195-147	Award of subcontract - ABWF works (Package 3 - Suspended Ceiling)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
93	SC-1195-157	Award of subcontract - ABWF works (Package 3 - Raised Floor)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
94	SC-1195-167	Award of subcontract - ABWF works (Package 3 - Plastic laminate wall panel)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
95	SC-1195-177	Award of subcontract - ABWF works (Package 3 - Thermal Insulation Board)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
96	SC-1195-187	Award of subcontract - ABWF works (Package 3 - Glass Wall)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
97	SC-1195-197	Award of subcontract - ABWF works (Package 3 - Movable Partition)	0	0		08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
98	**Package 4 - Sanway**		0	0	02-Dec-22 A	02-Dec-22 A		0%	ND/2019/02 - 6D (with PH)
99	SC-1195-4	Award of subcontract - ABWF works (Package 4 - Timber Door)	0	0		02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
100	SC-1195-67	Award of subcontract - ABWF works (Package 4 - Fitting and fixtures)	0	0		02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
101	**Package 5 - De Heng**		0	0	22-Nov-22 A	22-Nov-22 A		0%	ND/2019/02 - 6D (with PH)
102	SC-1195-50	Award of subcontract - ABWF works (Package 5 - Window)	0	0		22-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
103	SC-1195-51	Award of subcontract - ABWF works (Package 5 - Aluminium Grilles)	0	0		22-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
104	SC-1195-52	Award of subcontract - ABWF works (Package 5 - Louvre)	0	0		22-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
105	**Package 6**		0	0	09-Mar-23 A	09-Mar-23 A		0%	ND/2019/02 - 6D (with PH)
106	SC-1195-107	Award of subcontract - ABWF works (Package 6 - Fences, Handrail, Guardrail, Parapet & Gate)	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
107	SC-1195-117	Award of subcontract - ABWF works (Package 6 - Roller Shutter)	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
108	SC-1195-207	Award of subcontract - ABWF works (Package 6 - Steel Door)	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
109	SC-1195-6	Award of subcontract - ABWF works (Package 6 - Skylight)	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
110	SC-1195-87	Award of subcontract - ABWF works (Package 6 - Fall Arrest System	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
111	SC-1195-97	Award of subcontract - ABWF works (Package 6 - Sundries Metal Works)	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
112	**Package 7 - Jibpool**		0	0	22-Dec-22 A	22-Dec-22 A		0%	ND/2019/02 - 6D (with PH)
113	SC-1195-7	Award of subcontract - ABWF works (Package 7 - Toilet Cubicles and Shower Cubicles)	0	0		22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
114	**Others**		586	0	29-Apr-21 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
115	SC-0090	CE-023 Subletting for Pipejacking (Phase 1)	80	0	29-Apr-21 A	28-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
116	SC-1185	Award of subcontract - Pipe jacking phase 2 (VTECH)	0	0		23-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
117	SC-1230	Award of subcontract - Pipe jacking phase 3 (Portion 4,5,6) - Yee Hop	0	0		30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
118	SC-1240	Award of subcontract - Rising Main Construction (CHA 1028 to 1735) (Excl. CHA 1250 to 1298)	0	0		30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
119	SC-1250	Award of subcontract - Ground Investigation Works of Portion 11	0	0		09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
120	**Statutory Submission**		978	132	27-Apr-20 A	21-Sep-23	1083	86.55%	ND/2019/02 - 6D (with PH)
121	**HyD**		671	0	27-Apr-20 A	15-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
122	XP-1000	Capital works excavation permit (CWXP) application for Portion 1 & 2	142	0	27-Apr-20 A	01-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
123	XP-1010	Excavation permit (XP) application for Portion 4	80	0	31-Mar-22 A	23-May-22 A		100%	ND/2019/02 - 6D (with PH)
124	XP-1020	Excavation permit (XP) application for Portion 5	100	0	18-Jun-22 A	15-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
125	XP-1030	Excavation permit (XP) application for Portion 8	100	0	18-Jun-22 A	15-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
126	**DSD**		81	0	30-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
127	DSD-1000	Preparation and submission of Construction Drainage Impact Assessment (CDIA)	12	0	30-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)

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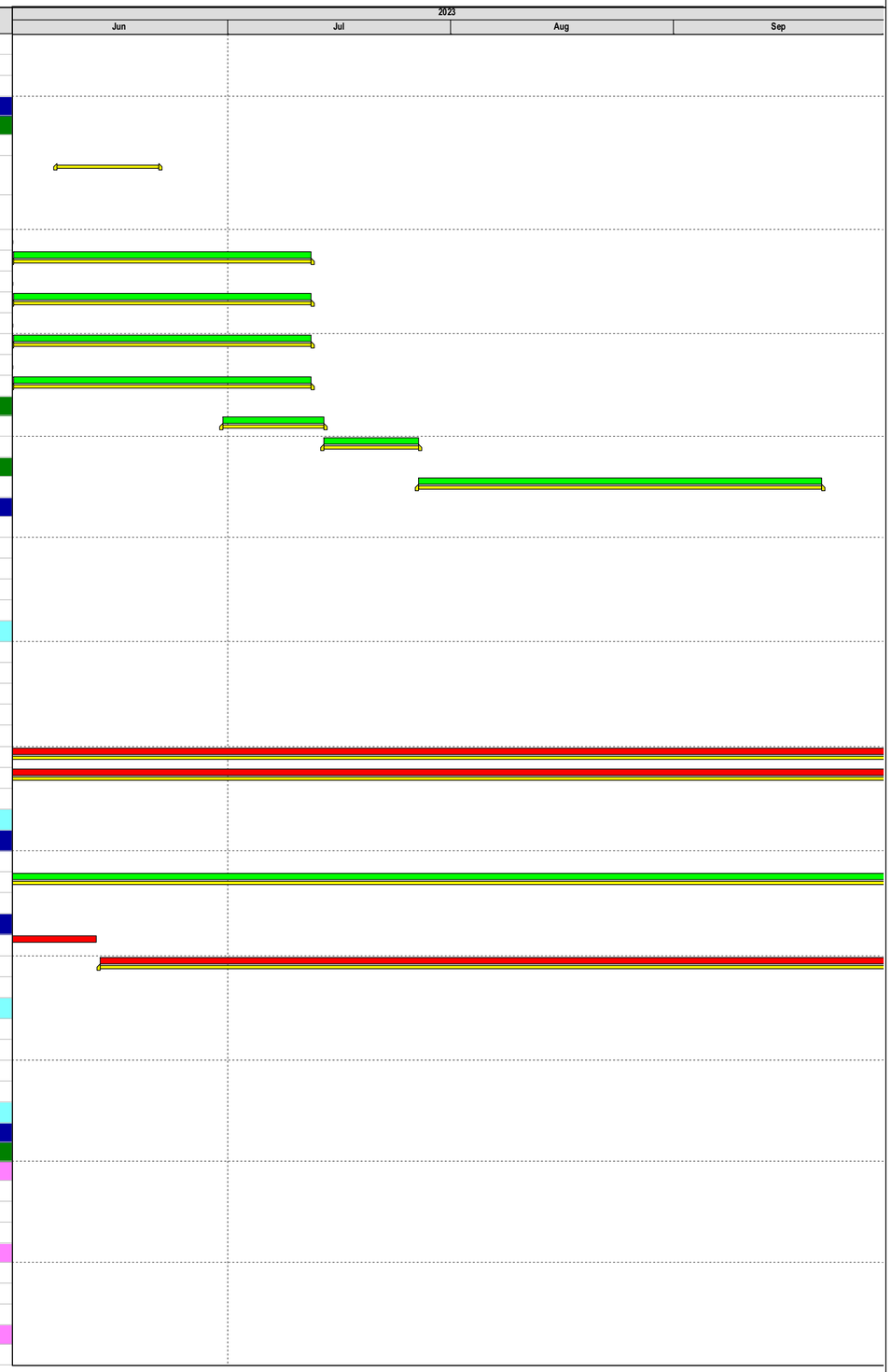
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
128	DSD-1010	Review and comment by PM	12	0	30-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
129	DSD-1020	Submission to DSD	53	0	30-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
130	DSD-1030	Re-submission to DSD	25	0	30-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
131	**MTRC**		320	132	21-Mar-22 A	21-Sep-23	54	58.95%	ND/2019/02 - 6D (with PH)
132	**Method Statement Submission and Approval**		253	64	21-Mar-22 A	12-Jul-23	68	74.69%	ND/2019/02 - 6D (with PH)
133	MTRC-0700	Preparation of Method Statement for pipe laying work of rising main nearby MTRC area (MS-659)	15	0	21-Mar-22 A	09-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
134	MTRC-0800	Submission and Review of Method Statement for pipe laying work of rising main nearby MTRC area	12	0	11-Apr-22 A	28-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
135	MTRC-0900	Re-submission and Approval of Method Statement for pipe laying work of rising main nearby MTRC area	19	0	03-Oct-22 A	27-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
136	MTRC-1000	Preparation of Method Statement for pipe jacking work underneath East Rail Line	27	27	03-May-23*	31-May-23	68	0%	ND/2019/02 - 6D (with PH)
137	MTRC-1010	Approval of Method Statement for pipe jacking work underneath East Rail Line	37	37	01-Jun-23	12-Jul-23	68	0%	ND/2019/02 - 6D (with PH)
138	MTRC-1020	Preparation of material and plants for pipe jacking work underneath East Rail Line	27	27	03-May-23*	31-May-23	68	0%	ND/2019/02 - 6D (with PH)
139	MTRC-1030	Approval of material and plants for pipe jacking work underneath East Rail Line	37	37	01-Jun-23	12-Jul-23	68	0%	ND/2019/02 - 6D (with PH)
140	MTRC-1040	Preparation of contingency plan for pipe jacking work underneath East Rail Line	27	27	03-May-23*	31-May-23	68	0%	ND/2019/02 - 6D (with PH)
141	MTRC-1050	Approval of contingency plan for pipe jacking work underneath East Rail Line	37	37	01-Jun-23	12-Jul-23	68	0%	ND/2019/02 - 6D (with PH)
142	MTRC-1060	Preparation of Method Statement for manhole construction work underneath East Rail Line	27	27	03-May-23*	31-May-23	68	0%	ND/2019/02 - 6D (with PH)
143	MTRC-1070	Approval of Method Statement for manhole construction work underneath East Rail Line	37	37	01-Jun-23	12-Jul-23	68	0%	ND/2019/02 - 6D (with PH)
144	**Pre-condition Survey & Report**		25	25	30-Jun-23	27-Jul-23	54	0%	ND/2019/02 - 6D (with PH)
145	MTRC-1110	Preparation of Pre-condition Survey report before construction work underneath East Rail Line	12	12	30-Jun-23*	14-Jul-23	54	0%	ND/2019/02 - 6D (with PH)
146	MTRC-1120	Approval of Pre-condition report before construction work underneath East Rail Line	12	12	14-Jul-23	27-Jul-23	54	0%	ND/2019/02 - 6D (with PH)
147	**Notification of commencement of works**		53	53	27-Jul-23	21-Sep-23	54	0%	ND/2019/02 - 6D (with PH)
148	MTRC-1130	Preparation and Submission of Written Notice to MTRCL for the notification of commencement of works	53	53	27-Jul-23	21-Sep-23	54	0%	ND/2019/02 - 6D (with PH)
149	**TPRP**		428	0	17-May-21 A	14-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
150	TPRP-1010	TPRP Submission for CE-026 - 1st submission & review	80	0	17-May-21 A	22-May-21 A		100%	ND/2019/02 - 6D (with PH)
151	TPRP-1020	TPRP Submission for CE-026 - response to comment and resubmission	12	0	23-May-21 A	31-May-21 A		100%	ND/2019/02 - 6D (with PH)
152	TPRP-1030	TPRP Submission for CE-026 - 2nd submission & approval	19	0	01-Jun-21 A	21-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
153	TPRP-1040	Tree Felling Proposal Submission and Approval for FMH1.30A (CSF-477)	206	0	07-Dec-21 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
154	TPRP-1050	Tree Felling (26 nos)	21	0	22-Aug-22 A	14-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
155	**BIM Submission**		1446	706	19-Oct-20 A	20-Jun-25	510	51.19%	ND/2019/02 - 6D (with PH)
156	BIM1000	Submission of Execution Plan	0	0	19-Oct-20 A			100%	ND/2019/02 - 6D (with PH)
157	BIM1010	1st Review and Comment by PM	16	0	20-Oct-20 A	04-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
158	BIM1020	Re-submission of Execution Plan	16	0	05-Nov-20 A	23-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
159	BIM1030	2nd Review and Comment by PM	16	0	26-Nov-20 A	14-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
160	BIM1040	Preparation and Submission of Initial BIM Model	16	0	02-Dec-20 A	17-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
161	BIM1045	Preparation and Submission of BIM Model for Bar Bending Schedule	782	316	30-Oct-21 A	15-Apr-24	-113	59.66%	ND/2019/02 - 6D (with PH)
162	BIM1047	Preparation and Submission of BIM Model for updating CSD and CBWD	1171	706	01-Nov-21 A	20-Jun-25	-271	39.75%	ND/2019/02 - 6D (with PH)
163	BIM1050	Submission of Fully Coordinated BIM Model (As-built)	0	0	28-Feb-23 A			100%	ND/2019/02 - 6D (with PH)
164	**Site Offices & Preliminaries**		2061	1216	18-Mar-20 A	05-Jan-27	0	41.02%	ND/2019/02 - 6D (with PH)
165	**Temporary office for RE**		1546	725	18-Mar-20 A	12-Jul-25	154	53.12%	ND/2019/02 - 6D (with PH)
166	SP-1000a	Erection of container office in WA2	6	0	18-Mar-20 A	24-Mar-20 A		100%	ND/2019/02 - 6D (with PH)
167	SP-1000b	Maintenance of container office	1546	725	30-Sep-20 A	12-Jul-25	154	53.12%	ND/2019/02 - 6D (with PH)
168	SP-1000c	Removal of container office in WA2	6	0	28-Feb-23 A	07-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
169	**Temporary office for Contractor**		1281	1216	16-Feb-23 A	05-Jan-27	0	5.12%	ND/2019/02 - 6D (with PH)
170	SP-1010a	Erection of container office in WA1	80	39	16-Feb-23 A	12-Jun-23	0	51.39%	ND/2019/02 - 6D (with PH)
171	SP-1010b	Maintenance of container office	1174	1174	13-Jun-23	31-Dec-26	0	0%	ND/2019/02 - 6D (with PH)
172	SP-1010c	Removal of container office in WA1	3	3	31-Dec-26	05-Jan-27	0	0%	ND/2019/02 - 6D (with PH)
173	**Tree Survey**		113	0	03-Jul-20 A	13-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
174	TS-1000	Tree Survey Works - Preparation of Document	12	0	03-Jul-20 A	25-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
175	TS-1010	Tree Survey Works - Submission to Project Manager (PM)	25	0	26-Aug-20 A	21-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
176	TS-1020	Tree Survey Works - Re-submission to PM	27	0	22-Sep-20 A	30-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
177	TS-1030	Tree Survey Works - Submission to EPD by PM	53	0	02-Nov-20 A	13-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
178	**Contractor's Design**		1813	0	06-Nov-20 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
179	**Temporary Works Design**		1813	0	06-Nov-20 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
180	**Footbridge FK2**		573	0	06-Nov-20 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
181	**ELS Design**		21	0	06-Nov-20 A	28-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
182	TWD-1120	ELS Design - 1st submission to PM & review	19	0	06-Nov-20 A	21-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
183	TWD-1130	ELS Design - Review and Resubmission	12	0	22-Dec-20 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
184	TWD-1140	ELS Design - 2nd submission to PM & Approval	19	0	23-Jun-21 A	28-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
185	**Formwork Design (Abutrment Wall) - CSF475**		48	0	03-Nov-21 A	22-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
186	TWD-1150	Formwork and Falsework Design (FK2 Abutment)- 1st submission to PM & review	19	0	03-Nov-21 A	15-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
187	TWD-1160	Formwork and Falsework Design (FK2 Abutment) - Review and Resubmission	12	0	16-Nov-21 A	29-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
188	TWD-1170	Formwork and Falsework Design (FK2 Abutment) - 2nd submission to PM & Approval	19	0	30-Nov-21 A	22-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
189	**Formwork Design (Bridge Pier) - CSF576**		61	0	19-Feb-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
190	TWD-1310	Formwork and Falsework Design (Bridge Pier)- 1st submission to PM & review	10	0	19-Feb-22 A	02-Mar-22 A		100%	ND/2019/02 - 6D (with PH)



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TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
191	TWD-1320	Formwork and Falsework Design (Bridge Pier) - Review and Resubmission	21	0	03-Mar-22 A	16-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
192	TWD-1330	Formwork and Falsework Design (Bridge Pier) - 2nd submission to PM & Approval	10	0	08-Jun-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
193	**Falsework Design (End Bridge Deck) - CSF584**		105	0	07-Mar-22 A	21-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
194	TWD-1340	Falsework Design (Bridge Deck)- 1st submission to PM & review	15	0	07-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
195	TWD-1350	Falsework Design (Bridge Deck) - Review and Resubmission	21	0	24-Mar-22 A	18-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
196	TWD-1360	Falsework Design (Bridge Deck) - 2nd submission to PM & Approval	14	0	06-Jul-22 A	21-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
197	**Falsework Design (Mid Span Bridge Deck) - CSF894**		225	0	21-Jun-22 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
198	TWD-1400	Falsework Design (Bridge Deck)- 1st submission to PM	15	0	21-Jun-22 A	08-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
199	TWD-1405	Falsework Design (Bridge Deck)- 1st round PM comment	24	0	09-Jul-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
200	TWD-1410	Falsework Design (Bridge Deck) - Review and Resubmission	21	0	03-Jan-23 A	30-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
201	TWD-1420	Falsework Design (Bridge Deck) - 2nd round submission to PM & Approval	21	0	31-Jan-23 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
202	**Sewage Pumping Station**		1769	0	29-Jun-21 A	09-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
203	**ELS Design**		1769	0	29-Jun-21 A	09-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
204	TWD-1000	ELS Design - 1st submission to PM & review	19	0	29-Jun-21 A	14-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
205	TWD-1010	ELS Design - Review and Resubmission	24	0	15-Jul-21 A	27-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
206	TWD-1020	ELS Design - 2nd submission to PM & review	19	0	28-Aug-21 A	10-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
207	TWD-1025	ELS Design - 3rd submission to PM & Approval	16	0	11-Sep-21 A	29-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
208	TWD-1450	ELS Design - submission of Design Review for Early Strut Removal of Early Construction of Valve Chamber w	17	0	29-Aug-22 A	16-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
209	TWD-1460	ELS Design - submission of ICE19F for Early Strut Removal of Early Construction of Valve Chamber wall	48	0	17-Sep-22 A	09-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
210	**Formwork Design (CSF 675)**		88	0	01-Apr-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
211	TWD-1030	Column Formwork and Falsework Design - 1st submission to PM & review	17	0	01-Apr-22 A	19-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
212	TWD-1040	Column Formwork and Falsework Design - Review and Resubmission	45	0	20-Apr-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
213	TWD-1050	Column Formwork and Falsework Design - 2nd submission to PM & Approval	27	0	10-Jun-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
214	**Visitor Centre**		266	0	29-Jun-21 A	24-May-22 A		100%	ND/2019/02 - 6D (with PH)
215	**ELS Design - CSF273**		65	0	29-Jun-21 A	29-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
216	TWD-1060	ELS Design - 1st submission to PM & review	19	0	29-Jun-21 A	12-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
217	TWD-1070	ELS Design - Review and Resubmission	12	0	13-Jul-21 A	24-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
218	TWD-1080	ELS Design - 2nd submission to PM & Approval	16	0	25-Sep-21 A	29-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
219	**Vertical Blinding Design - CSF439**		44	0	31-Dec-21 A	11-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
220	TWD-1280	Formwork Design for Vertical Blinding - 1st submission to PM & review	19	0	31-Dec-21 A	21-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
221	TWD-1290	Formwork Design for Vertical Blinding - Review and Approval	6	0	22-Jan-22 A	11-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
222	**Single Side Formwork Design for Base slab - CSF454**		83	0	04-Jan-22 A	28-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
223	TWD-1090	Formwork and Falsework Design - 1st submission to PM & review	19	0	04-Jan-22 A	12-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
224	TWD-1100	Formwork and Falsework Design - Review and Resubmission	6	0	13-Jan-22 A	27-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
225	TWD-1110	Formwork and Falsework Design - 2nd submission to PM & Approval	12	0	28-Jan-22 A	28-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
226	**Formwork Design for Superstructure - CSF598**		58	0	25-Feb-22 A	24-May-22 A		100%	ND/2019/02 - 6D (with PH)
227	TWD-1370	Formwork and Falsework Design - 1st submission to PM & review	12	0	25-Feb-22 A	04-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
228	TWD-1380	Formwork and Falsework Design - Review and Resubmission	19	0	05-Mar-22 A	22-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
229	TWD-1390	Formwork and Falsework Design - 2nd submission to PM & Approval	12	0	18-Apr-22 A	24-May-22 A		100%	ND/2019/02 - 6D (with PH)
230	**Pipeworks**		91	0	01-Jun-21 A	17-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
231	TWD-1180	ELS Design - 1st submission to PM & review	19	0	01-Jun-21 A	15-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
232	TWD-1185	ELS Design - Review and Resubmission	6	0	16-Jun-21 A	19-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
233	TWD-1187	ELS Design - 2nd submission to PM & Approval	19	0	20-Jul-21 A	17-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
234	**3m Dia. Drain (CSF 828 & 834)**		40	0	21-May-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
235	TWD-1430	ELS Design - 1st submission to PM & review	19	0	21-May-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
236	TWD-1440	ELS Design - Review and and Approval	15	0	16-Jun-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
237	**CE-026 Extension of Cycle Track outside Dills Corner Garden**		48	0	01-Aug-21 A	05-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
238	TWD-1240	Preparation of Design for Extension of Cycle Track Outside Dills Corner Garden	25	0	01-Aug-21 A	10-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
239	TWD-1250	Design for Extension of Cycle Track Outside Dills Corner Garden - 1st submission to PM & review	19	0	11-Aug-21 A	13-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
240	TWD-1260	Design for Extension of Cycle Track Outside Dills Corner Garden - review and resubmission	12	0	14-Sep-21 A	22-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
241	TWD-1270	Design for Extension of Cycle Track Outside Dills Corner Garden - 2nd submission to PM & Approval	19	0	23-Sep-21 A	05-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
242	**E&M Submission**		770	292	13-Nov-21 A	16-Mar-24	924	62.05%	ND/2019/02 - 6D (with PH)
243	**Visitor Centre**		571	118	13-Nov-21 A	05-Sep-23	1098	79.39%	ND/2019/02 - 6D (with PH)
244	**BS Shop Drawings Submission (Visitor Centre)**		451	0	13-Nov-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
245	**CSD/ CBWD**		451	0	13-Nov-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
246	**CSD**		451	0	13-Nov-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
247	**Basement (CSF 495)**		443	0	13-Nov-21 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
248	CSD-VC1000	CSD Preparation and submission for Visitor Centre (Rev.0)	53	0	13-Nov-21 A	13-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
249	CSD-VC1010	PM review & 1st round comment	11	0	14-Jan-22 A	26-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
250	CSD-VC1020	CSD Preparation and submission for Visitor Centre (Rev.1)	49	0	27-Jan-22 A	04-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
251	CSD-VC1030	PM review & 2nd round comment	15	0	06-Apr-22 A	25-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
252	CSD-VC1040	CSD Preparation and submission for Visitor Centre (Rev.2)	83	0	26-Apr-22 A	15-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
253	CSD-VC1050	PM review & 3rd round comment	12	0	16-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
254	CSD-VC1100	CSD Preparation and submission for Visitor Centre (Rev.3)	19	0	01-Mar-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
255	CSD-VC1110	PM review & 4th round comment	12	0	01-Mar-23 A	13-Mar-23 A		100%	ND/2019/02 - 6D (with PH)

2023

Jun | Jul | Aug | Sep

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
256		**G/F (CSF 758)**	446	0	19-Mar-22 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
257	CSD-VC1060	CSD Preparation and submission for Visitor Centre (Rev.0)	53	0	19-Mar-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
258	CSD-VC1070	PM review & 1st round comment	14	0	20-May-22 A	08-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
259	CSD-VC1080	CSD Preparation and submission for Visitor Centre (Rev.1)	56	0	09-Jun-22 A	22-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
260	CSD-VC1090	PM review & 2nd round comment	15	0	23-Aug-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
261	CSD-VC1120	CSD Preparation and submission for Visitor Centre (Rev.2)	21	0	01-Dec-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
262	CSD-VC1130	PM review & 3rd round comment	15	0	30-Dec-22 A	11-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
263	CSD-VC1200	CSD Preparation and submission for Visitor Centre (Rev.3)	21	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
264		**1/F (CSF 1027)**	214	0	05-Aug-22 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
265	CSD-VC1140	CSD Preparation and submission for Visitor Centre (Rev.0)	26	0	05-Aug-22 A	07-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
266	CSD-VC1150	PM review & 1st round comment	11	0	08-Sep-22 A	21-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
267	CSD-VC1160	CSD Preparation and submission for Visitor Centre (Rev.1)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
268		**R/F (CSF 1046)**	181	0	09-Sep-22 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
269	CSD-VC1170	CSD Preparation and submission for Visitor Centre (Rev.0)	21	0	09-Sep-22 A	10-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
270	CSD-VC1180	PM review & 1st round comment	10	0	11-Oct-22 A	22-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
271	CSD-VC1190	CSD Preparation and submission for Visitor Centre (Rev.1)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
272		**CBWD**	417	0	20-Dec-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
273		**Basement (CSF-508)**	417	0	20-Dec-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
274	CBW-VC1000	CBW Preparation and submission for Visitor Centre (Rev.0)	21	0	20-Dec-21 A	18-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
275	CBW-VC1010	PM review & 1st round comment	17	0	19-Jan-22 A	12-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
276	CBW-VC1020	CBW Preparation and submission for Visitor Centre (Rev.1)	55	0	14-Feb-22 A	27-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
277	CBW-VC1110	PM review & 2nd round comment	10	0	28-Apr-22 A	11-May-22 A		100%	ND/2019/02 - 6D (with PH)
278	CBW-VC1120	CBW Preparation and submission for Visitor Centre (Rev.2)	35	0	12-May-22 A	27-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
279	CBW-VC1180	PM review & 3rd round comment	11	0	28-Jun-22 A	12-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
280	CBW-VC1190	CBW Preparation and submission for Visitor Centre (Rev.3)	27	0	13-Jul-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
281	CBW-VC1200	PM review & 4th round comment	19	0	17-Aug-22 A	29-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
282	CBW-VC1290	CSD Preparation and submission for Visitor Centre (Rev.4)	27	0	01-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
283	CBW-VC1300	PM review & 5th round comment	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
284		**G/F (CSF 537)**	305	0	27-Apr-22 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
285	CBW-VC1210	CBW Preparation and submission for Visitor Centre (Rev.0)	24	0	27-Apr-22 A	28-May-22 A		100%	ND/2019/02 - 6D (with PH)
286	CBW-VC1220	PM review & 1st round comment	7	0	30-May-22 A	08-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
287	CBW-VC1230	CBW Preparation and submission for Visitor Centre (Rev.1)	52	0	09-Jun-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
288	CBW-VC1240	PM review & 2nd round comment	14	0	17-Aug-22 A	05-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
289	CBW-VC1310	CBW Preparation and submission for Visitor Centre (Rev.2)	21	0	01-Dec-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
290	CBW-VC1320	PM review & 3rd round comment	14	0	30-Dec-22 A	18-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
291	CBW-VC1330	CBW Preparation and submission for Visitor Centre (Rev.3)	21	0	19-Jan-23 A	07-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
292	CBW-VC1340	PM review & 4th round comment	14	0	08-Feb-23 A	20-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
293	CBW-VC1450	CBW Preparation and submission for Visitor Centre (Rev.4)	19	0	21-Feb-23 A	11-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
294	CBW-VC1460	PM review & 5th round comment	14	0	14-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
295		**R/F (CSF 1097)**	165	0	23-Sep-22 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
296	CBW-VC1420	CBW Preparation and submission for Visitor Centre (Rev.0)	23	0	23-Sep-22 A	25-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
297	CBW-VC1430	PM review & 1st round comment	19	0	26-Oct-22 A	10-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
298	CBW-VC1440	CBW Preparation and submission for Visitor Centre (Rev.1)	23	0	01-Mar-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
299		**MVAC (CSF 451)**	430	0	06-Dec-21 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
300	MVAC-VC1070	Shop Drawing Preparation and submission for Visitor Centre (MVAC)	21	0	06-Dec-21 A	04-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
301	MVAC-VC1080	PM review & 1st round comment	11	0	05-Jan-22 A	18-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
302	MVAC-VC1090	CBW Preparation and submission for Visitor Centre (Rev.1)	112	0	19-Jan-22 A	21-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
303	MVAC-VC1095	PM review & 2nd round comment	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
304		**Lift (CSF-643)**	218	0	04-Mar-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
305	LT-VC1000	Shop Drawing Preparation and submission for Visitor Centre (Lift)	24	0	04-Mar-22 A	04-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
306	LT-VC1010	1st submission to PM & review	15	0	06-Apr-22 A	25-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
307	LT-VC1020	2nd submission to PM & review	18	0	08-Jul-22 A	28-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
308	LT-VC1070	3rd submission to PM & review	19	0	20-Oct-22 A	01-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
309	LT-VC1080	4th submission to PM & approval	6	0	25-Nov-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
310		**PV Panel (CSF-909)**	254	0	13-Jun-22 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
311	ABWF-P3-1300	Shop Drawing Submission - PV Panel	22	0	13-Jun-22 A	12-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
312	ABWF-P3-1310	Shop Drawing Submission - PV Panel - 1st round comment by PM & review	10	0	13-Jul-22 A	25-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
313	ABWF-P3-1320	Shop Drawing Submission - PV Panel - 2nd submission to PM & review	5	0	26-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
314	ABWF-P3-1690	Shop Drawing Submission - PV Panel - 3rd submission to PM & review	16	0	21-Dec-22 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
315	ABWF-P3-1730	Shop Drawing Submission - PV Panel - 4th submission to PM & review	16	0	28-Feb-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
316		**BS Materials Submission & Procurement (Visitor Centre)**	515	118	14-Jan-22 A	05-Sep-23	1098	77.17%	ND/2019/02 - 6D (with PH)
317		**PD (CSF-607)**	243	0	17-Mar-22 A	23-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
318	PD-VC1000	Material Submission - Submersible Pump	22	0	17-Mar-22 A	29-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
319	PD-VC1010	Submersible Pump - 1st round comment by PM & review	22	0	30-Mar-22 A	20-Apr-22 A		100%	ND/2019/02 - 6D (with PH)

2023: Jun | Jul | Aug | Sep

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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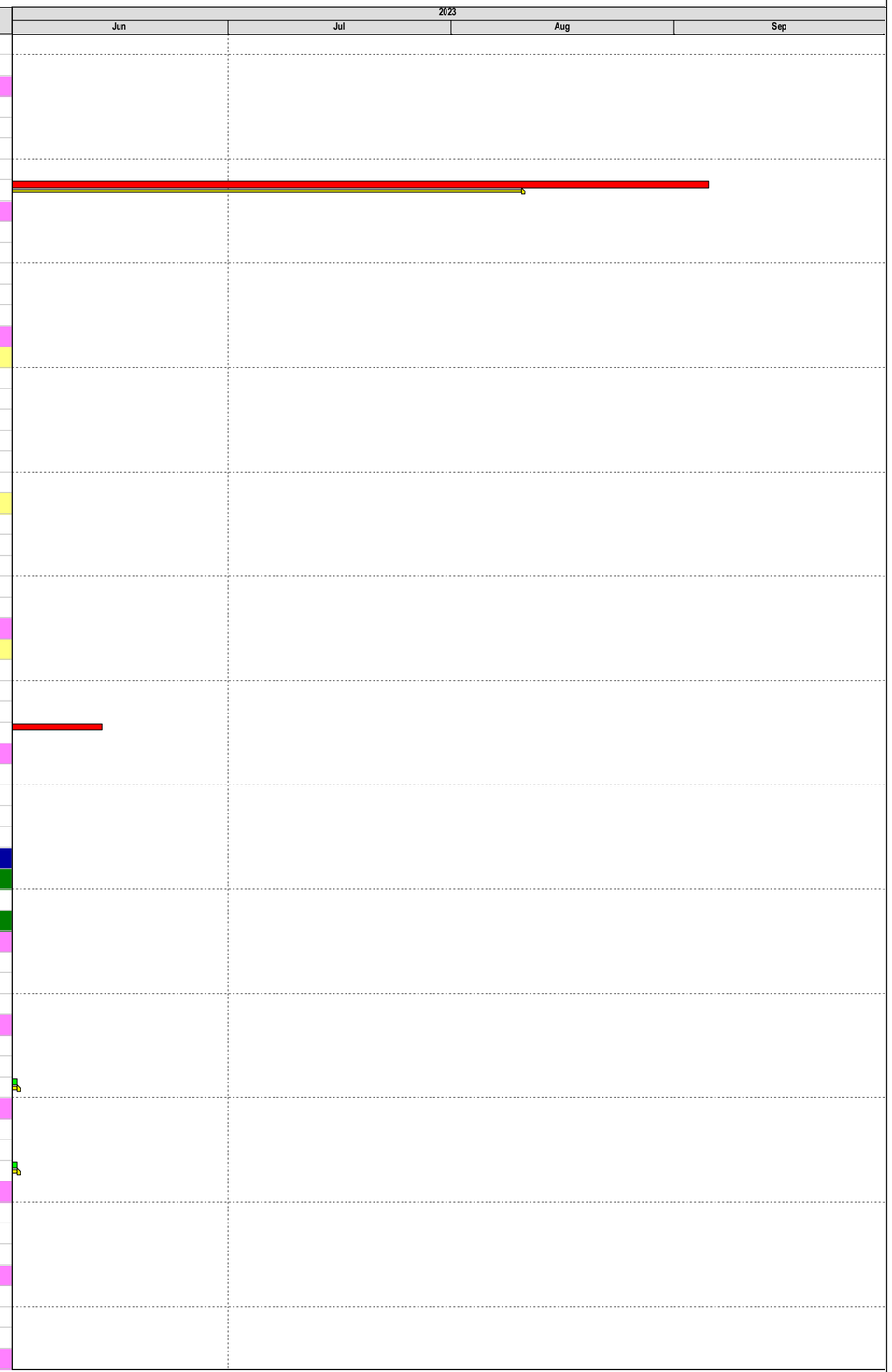
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
320	PD-VC1020	Submersible Pump - 2nd submission to PM & approval	8	0	09-Nov-22 A	18-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
321	PD-VC1030	Procurement & Delivery of Submersible Pump (16wks)	85	0	19-Nov-22 A	23-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
322	**FS (CSF-980)**		358	118	12-Jul-22 A	05-Sep-23	-129	67.1%	ND/2019/02 - 6D (with PH)
323	FS-VC1000	Material Submission - Sprinkler Pump & Local Control Panel	25	0	12-Jul-22 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
324	FS-VC1010	Sprinkler Pump & Local Control Panel - 1st round comment by PM & review	14	0	13-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
325	FS-VC1020	Sprinkler Pump & Local Control Panel - 2nd submission to PM	19	0	03-Oct-22 A	24-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
326	FS-VC1040	Sprinkler Pump & Local Control Panel - 3rd submission to PM	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
327	FS-VC1050	Procurement & Delivery of Sprinkler Pump & Local Control Panel (24wks)	128	118	20-Mar-23 A	05-Sep-23	-129	8.07%	ND/2019/02 - 6D (with PH)
328	**MVAC (CSF-676)**		145	8	02-May-22 A	10-May-23	-4	94.25%	ND/2019/02 - 6D (with PH)
329	MVAC-VC1100	Material Submission - AC Split Type	19	0	02-May-22 A	30-May-22 A		100%	ND/2019/02 - 6D (with PH)
330	MVAC-VC1110	AC Split Type - 1st round comment by PM & review	19	0	31-May-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
331	MVAC-VC1120	AC Split Type - 2nd submission to PM & review	12	0	19-Dec-22 A	05-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
332	MVAC-VC1130	AC Split Type - 3rd submission to PM & approval	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
333	MVAC-VC1140	Procurement & Delivery of - AC Split Type (12wks)	19	8	20-Mar-23 A	10-May-23	-4	55.36%	ND/2019/02 - 6D (with PH)
334	**ELE**		324	0	22-Feb-22 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
335	**Genset (CSF-620)**		324	0	22-Feb-22 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
336	ELE-VC1000	Material Submission - Genset	22	0	22-Feb-22 A	29-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
337	ELE-VC1010	Genset - 1st round comment by PM & review	16	0	30-Mar-22 A	20-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
338	ELE-VC1020	Genset - 2nd submission to PM	98	0	21-Apr-22 A	23-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
339	ELE-VC1025	Genset - 3rd submission to PM and review	9	0	01-Nov-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
340	ELE-VC1027	Genset - 4th submission to PM and Approval	27	0	06-Jan-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
341	ELE-VC1030	Procurement & Delivery of - Genset (16wks)	85	0	12-Nov-22 A	16-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
342	**Switchboard (CSF-879)**		219	0	04-Jun-22 A	31-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
343	ELV-VC1040	Material Submission - Switchboard	22	0	04-Jun-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
344	ELV-VC1050	Switchboard - 1st round comment by PM & review	12	0	05-Jul-22 A	19-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
345	ELV-VC1060	Switchboard - 2nd submission to PM & review	14	0	29-Aug-22 A	13-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
346	ELV-VC1065	Switchboard - 3rd submission to PM & approval	10	0	14-Oct-22 A	26-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
347	ELV-VC1070	Procurement & Delivery of Switchboard (16wks)	85	0	27-Oct-22 A	31-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
348	**ELV**		215	39	19-Sep-22 A	13-Jun-23	-71	81.65%	ND/2019/02 - 6D (with PH)
349	**PABX System (CSF-1086)**		215	39	19-Sep-22 A	13-Jun-23	-71	81.65%	ND/2019/02 - 6D (with PH)
350	ELE-VC1040	Material Submission - PABX System	20	0	19-Sep-22 A	18-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
351	ELE-VC1050	PABX System - 1st round comment by PM & review	19	0	19-Oct-22 A	01-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
352	ELE-VC1060	PABX System - 2nd submission to PM and approval	18	0	16-Jan-23 A	06-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
353	ELE-VC1070	Procurement & Delivery of - PABX System (10wks)	62	39	07-Mar-23 A	13-Jun-23	-71	36.61%	ND/2019/02 - 6D (with PH)
354	**Lift (CSF-539)**		410	12	14-Jan-22 A	13-May-23	-85	97.12%	ND/2019/02 - 6D (with PH)
355	LT-VC1030	Material Submission - Lift and Equipment	22	0	14-Jan-22 A	15-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
356	LT-VC1040	Lift and Equipment - 1st round comment by PM & review	12	0	16-Feb-22 A	03-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
357	LT-VC1050	Lift and Equipment - 2nd submission to PM & approval	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
358	LT-VC1060	Procurement & Delivery of - Lift Car and Equipment	117	12	03-Dec-22 A	13-May-23	-85	89.96%	ND/2019/02 - 6D (with PH)
359	**Sewerage Pumping Station**		492	292	19-Sep-22 A	16-Mar-24	924	40.63%	ND/2019/02 - 6D (with PH)
360	**PMI Issuance**		0	0	31-Mar-23 A	31-Mar-23 A		0%	ND/2019/02 - 6D (with PH)
361	SPS-PMI-1000	Confirmation for the Flow Rate of Pump at SPS from 1000L/s to 1500L/s	0	0		31-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
362	**BS Shop Drawings Submission (SPS)**		194	29	02-Nov-22 A	07-Jun-23	1187	85.19%	ND/2019/02 - 6D (with PH)
363	**CSD (CSF 1267)**		77	0	16-Dec-22 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
364	CSD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (CSD)	27	0	16-Dec-22 A	21-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
365	CSD-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	0	28-Jan-23 A	10-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
366	CSD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	0	28-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
367	**CBWD**		82	29	28-Feb-23 A	01-Jun-23	1187	65%	ND/2019/02 - 6D (with PH)
368	CBW-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (CBWD)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
369	CBW-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	1187	12.5%	ND/2019/02 - 6D (with PH)
370	CBW-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	12	18-May-23	01-Jun-23	1187	0%	ND/2019/02 - 6D (with PH)
371	**Conduit Layout**		82	29	28-Feb-23 A	01-Jun-23	1187	65%	ND/2019/02 - 6D (with PH)
372	CL-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (Conduit Layout)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
373	CL-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	1187	12.5%	ND/2019/02 - 6D (with PH)
374	CL-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	12	18-May-23	01-Jun-23	1187	0%	ND/2019/02 - 6D (with PH)
375	**MVAC**		75	10	28-Feb-23 A	24-May-23	1206	86.58%	ND/2019/02 - 6D (with PH)
376	MVAC-SPS1010	Shop Drawing Preparation and submission for Sewage Pumping Station (MVAC)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
377	MVAC-SPS1020	Sewage Pumping Station - 1st submission to PM & review	19	0	04-May-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
378	MVAC-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	12	10	28-Mar-23 A	12-May-23	1206	18.75%	ND/2019/02 - 6D (with PH)
379	**FS**		75	10	28-Feb-23 A	24-May-23	1206	86.58%	ND/2019/02 - 6D (with PH)
380	FS-SPS1010	Shop Drawing Preparation and submission for Sewage Pumping Station (FS)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
381	FS-SPS1020	Sewage Pumping Station - 1st submission to PM & review	19	0	04-May-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
382	FS-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	12	10	28-Mar-23 A	12-May-23	1206	18.75%	ND/2019/02 - 6D (with PH)
383	**PD**		75	10	28-Feb-23 A	24-May-23	1206	86.58%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

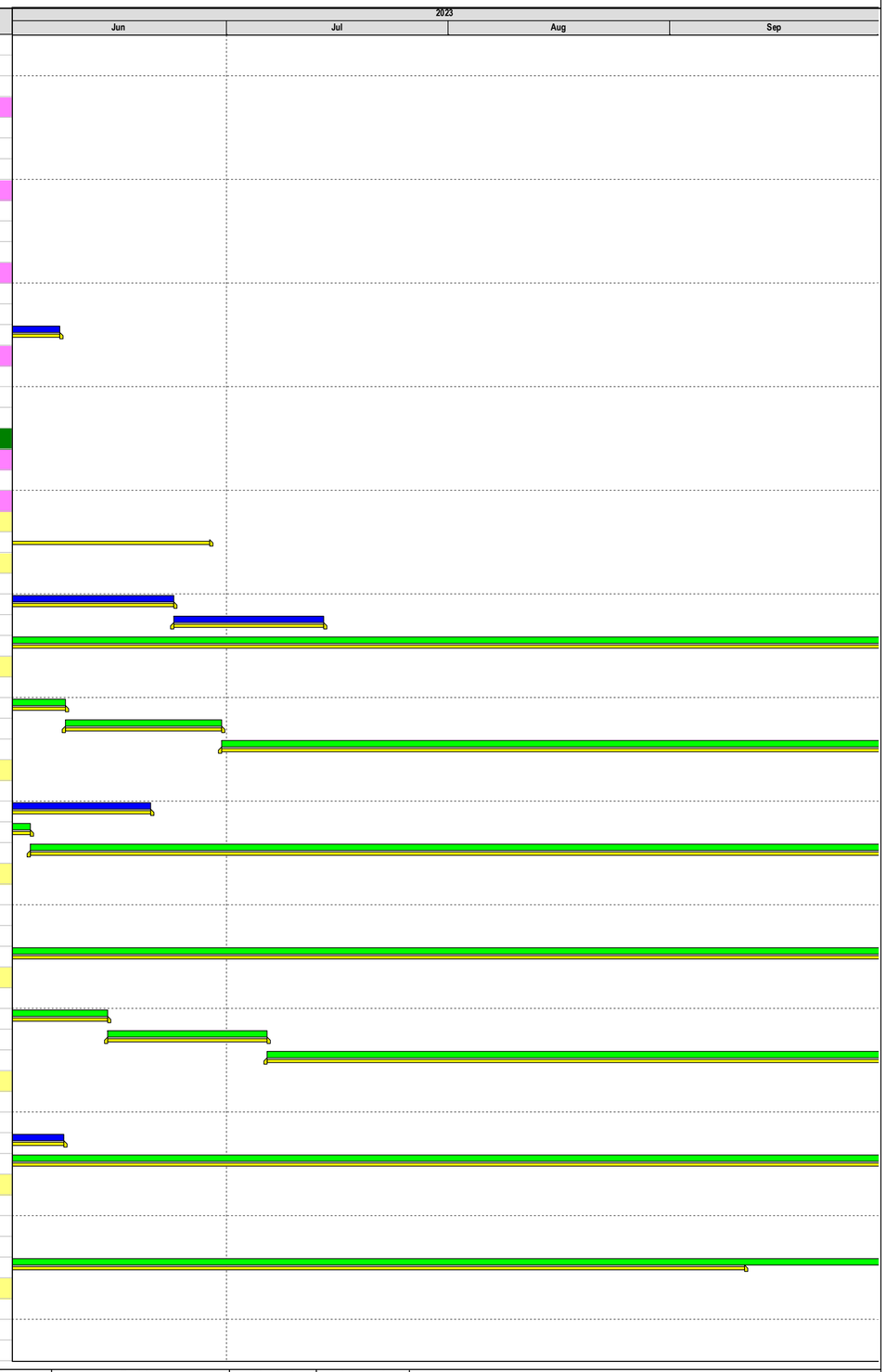
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 6 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

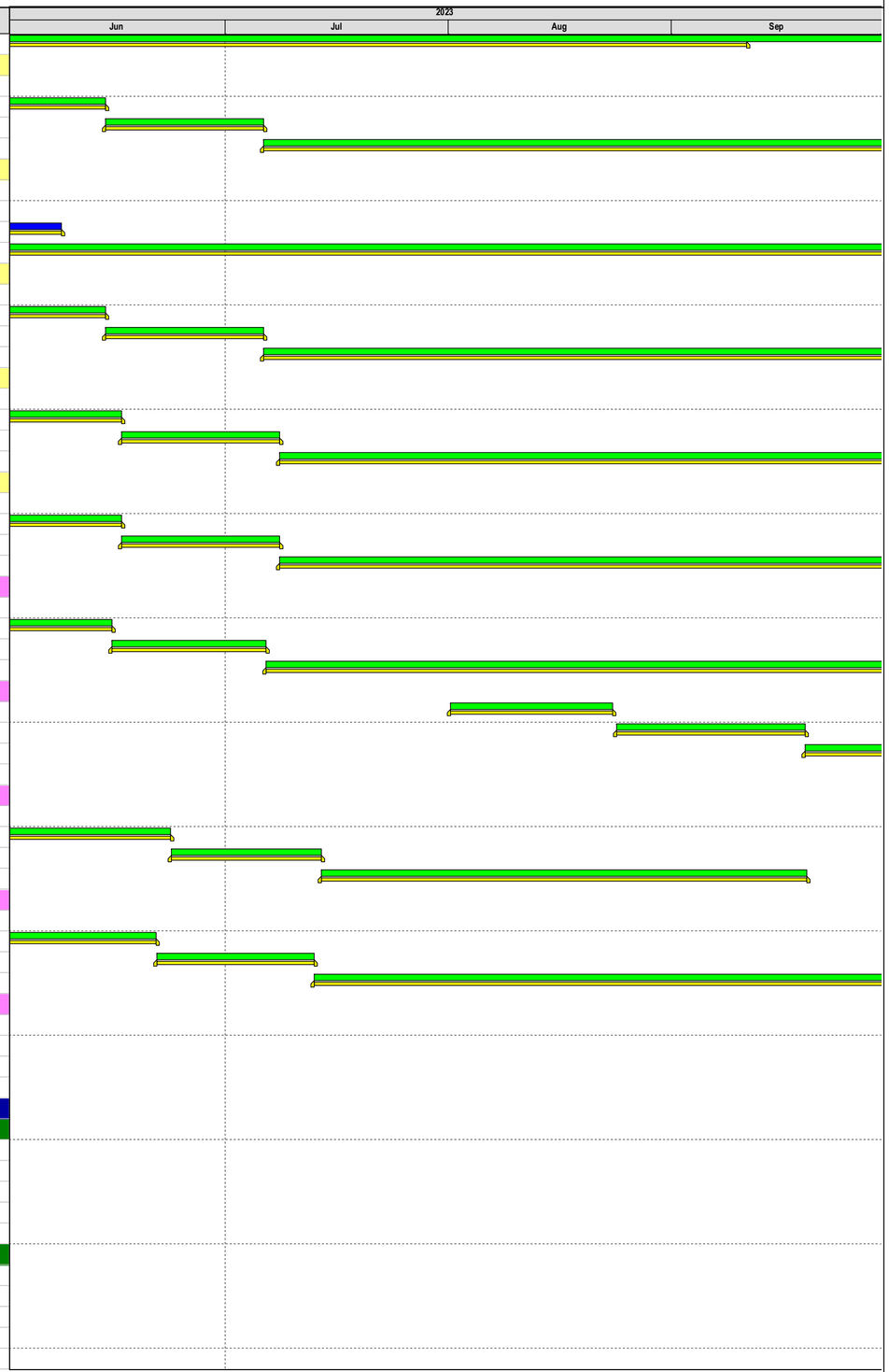
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
384	PD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (PD)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
385	PD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	0	04-May-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
386	PD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	10	28-Mar-23 A	12-May-23	1206	18.75%	ND/2019/02 - 6D (with PH)
387	**SPS Design**		75	10	28-Feb-23 A	24-May-23	1206	86.58%	ND/2019/02 - 6D (with PH)
388	SD-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (SPS Design)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
389	SD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	0	04-May-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
390	SD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	10	28-Mar-23 A	12-May-23	1206	18.75%	ND/2019/02 - 6D (with PH)
391	**ELE (CSF-1182)**		149	0	02-Nov-22 A	19-Apr-23 A		100%	ND/2019/02 - 6D (with PH)
392	ELE-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (Electrical Installation for LV SB)	27	0	02-Nov-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
393	ELE-SPS1010	Sewage Pumping Station - 1st submission to PM & review	12	0	07-Dec-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
394	ELE-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	0	31-Mar-23 A	19-Apr-23 A		100%	ND/2019/02 - 6D (with PH)
395	**ELV**		88	0	28-Feb-23 A	07-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
396	ELV-SPS1000	Shop Drawing Preparation and submission for Sewage Pumping Station (ELV)	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
397	ELV-SPS1010	Sewage Pumping Station - 1st submission to PM & review	19	0	04-May-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
398	ELV-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	12	0	24-May-23 A	07-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
399	**Chemical Dosing System (CSF-1173)**		118	0	03-Nov-22 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
400	ELV-SPS1100	Shop Drawing Preparation and submission for Sewage Pumping Station (Chemical Dosing System)	23	0	03-Nov-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
401	ELV-SPS1110	Sewage Pumping Station - 1st submission to PM & review	14	0	03-Dec-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
402	ELV-SPS1120	Sewage Pumping Station - 2nd submission to PM & approval	12	0	28-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
403	**BS Materials Submission & Procurement (SPS)**		492	292	19-Sep-22 A	16-Mar-24	85	40.63%	ND/2019/02 - 6D (with PH)
404	**Subletting**		23	0	28-Feb-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
405	SWP-SPS1560	Subletting Procedure for Material Procurement	23	0	28-Feb-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
406	**SWP**		448	248	19-Sep-22 A	27-Jan-24	129	44.61%	ND/2019/02 - 6D (with PH)
407	**Surge Analysis**		53	27	29-Apr-23 A	30-May-23	70	50%	ND/2019/02 - 6D (with PH)
408	SWP-SPS1400	Preparation and Submission of Surge Analysis Report	53	27	29-Apr-23 A	30-May-23	70	50%	ND/2019/02 - 6D (with PH)
409	**Submersible Pump (40wks)**		233	206	29-Apr-23 A	11-Jan-24	70	11.58%	ND/2019/02 - 6D (with PH)
410	SWP-SPS1000	Material Submission - Submersible Pump	22	0	29-Apr-23 A	24-May-23 A		100%	ND/2019/02 - 6D (with PH)
411	SWP-SPS1010	Submersible Pump - 1st round comment by PM & review	27	0	24-May-23 A	23-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
412	SWP-SPS1020	Submersible Pump - 2nd submission to PM & approval	19	0	23-Jun-23 A	14-Jul-23 A		100%	ND/2019/02 - 6D (with PH)
413	SWP-SPS1030	Procurement & Delivery of Submersible Pump (40wks)	206	206	31-May-23	11-Jan-24	70	0%	ND/2019/02 - 6D (with PH)
414	**Motorized Gate Valve,Check Valve and Actuator (36wks)**		243	243	29-Apr-23 A	22-Jan-24	74	0.14%	ND/2019/02 - 6D (with PH)
415	SWP-SPS1040	Material Submission - Motorized Gate Valve,Check Valve and Actuator	22	11	29-Apr-23 A	12-May-23	74	50%	ND/2019/02 - 6D (with PH)
416	SWP-SPS1050	Motorized Gate Valve,Check Valve and Actuator - 1st round comment by PM & review	24	24	13-May-23	08-Jun-23	74	0%	ND/2019/02 - 6D (with PH)
417	SWP-SPS1060	Motorized Gate Valve,Check Valve and Actuator - 2nd submission to PM & approval	20	20	08-Jun-23	30-Jun-23	74	0%	ND/2019/02 - 6D (with PH)
418	SWP-SPS1070	Procurement & Delivery of Motorized Gate Valve,Check Valve and Actuator (36wks)	188	188	30-Jun-23	22-Jan-24	74	0%	ND/2019/02 - 6D (with PH)
419	**Lifting Appliance (36wks)**		219	219	29-Apr-23 A	27-Dec-23	80	0.15%	ND/2019/02 - 6D (with PH)
420	SWP-SPS1160	Material Submission - Lifting Appliance	22	11	29-Apr-23 A	12-May-23	80	50%	ND/2019/02 - 6D (with PH)
421	SWP-SPS1170	Lifting Appliance - 1st round comment by PM & review	24	0	24-May-23 A	20-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
422	SWP-SPS1180	Lifting Appliance - 2nd submission to PM & approval	20	20	13-May-23	03-Jun-23	80	0%	ND/2019/02 - 6D (with PH)
423	SWP-SPS1190	Procurement & Delivery of Lifting Appliance (36wks)	188	188	03-Jun-23	27-Dec-23	80	0%	ND/2019/02 - 6D (with PH)
424	**Mechanical raked bar screen (36wks) (CSF-1318)**		260	188	10-Feb-23 A	22-Nov-23	163	27.4%	ND/2019/02 - 6D (with PH)
425	SWP-SPS1320	Material Submission - Mechanical raked bar screen	10	0	10-Feb-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
426	SWP-SPS1330	Mechanical raked bar screen - 1st round comment by PM & review	24	0	23-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
427	SWP-SPS1340	Mechanical raked bar screen - 2nd submission to PM & approval	20	0	25-Mar-23 A	20-Apr-23 A		100%	ND/2019/02 - 6D (with PH)
428	SWP-SPS1350	Procurement & Delivery of Mechanical raked bar screen (36wks)	188	188	02-May-23	22-Nov-23	163	0%	ND/2019/02 - 6D (with PH)
429	**LMCP for Deodourisation System (36wks)**		279	248	24-Mar-23 A	27-Jan-24	44	10.89%	ND/2019/02 - 6D (with PH)
430	SWP-SPS1360	Material Submission - LMCP for Deodourisation System	22	16	24-Mar-23 A	18-May-23	44	26.5%	ND/2019/02 - 6D (with PH)
431	SWP-SPS1370	LMCP for Deodourisation System - 1st round comment by PM & review	24	24	18-May-23	14-Jun-23	44	0%	ND/2019/02 - 6D (with PH)
432	SWP-SPS1380	LMCP for Deodourisation System - 2nd submission to PM & approval	20	20	14-Jun-23	06-Jul-23	44	0%	ND/2019/02 - 6D (with PH)
433	SWP-SPS1390	Procurement & Delivery of LMCP for Deodourisation System (36wks)	188	188	06-Jul-23	27-Jan-24	44	0%	ND/2019/02 - 6D (with PH)
434	**DI Pipe and fittings (30 wks)**		188	157	24-Mar-23 A	19-Oct-23	160	16.16%	ND/2019/02 - 6D (with PH)
435	SWP-SPS1080	Material Submission - DI Pipe and fittings	22	0	24-Mar-23 A	21-Apr-23 A		100%	ND/2019/02 - 6D (with PH)
436	SWP-SPS1090	DI Pipe and fittings - 1st round comment by PM & review	24	0	21-Apr-23 A	18-May-23 A		100%	ND/2019/02 - 6D (with PH)
437	SWP-SPS1100	DI Pipe and fittings - 2nd submission to PM & approval	19	0	18-May-23 A	08-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
438	SWP-SPS1110	Procurement & Delivery of DI Pipe and fittings (30wks)	157	157	02-May-23	19-Oct-23	160	0%	ND/2019/02 - 6D (with PH)
439	**Penstock and Stop Log (30wks) (CSF-1238)**		245	147	12-Dec-22 A	09-Oct-23	230	39.95%	ND/2019/02 - 6D (with PH)
440	SWP-SPS1120	Material Submission - Penstock and Stop Log	23	0	12-Dec-22 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
441	SWP-SPS1130	Penstock and Stop Log - 1st round comment by PM & review	23	0	13-Jan-23 A	15-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
442	SWP-SPS1140	Penstock and Stop Log - 2nd submission to PM & approval	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
443	SWP-SPS1150	Procurement & Delivery of Penstock and Stop Log (30 wks)	157	147	20-Mar-23 A	09-Oct-23	230	6.57%	ND/2019/02 - 6D (with PH)
444	**Deodourisation System (30wks) (CSF-1094)**		323	147	19-Sep-22 A	09-Oct-23	145	54.43%	ND/2019/02 - 6D (with PH)
445	SWP-SPS1200	Material Submission - Deodourisation System	20	0	19-Sep-22 A	18-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
446	SWP-SPS1210	Deodourisation System - 1st round comment by PM & review	24	0	19-Oct-22 A	18-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
447	SWP-SPS1220	Deodourisation System - 2nd submission to PM & approval	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
448	SWP-SPS1230	Procurement & Delivery of Deodourisation System (30wks)	157	147	20-Mar-23 A	09-Oct-23	145	6.57%	ND/2019/02 - 6D (with PH)
449	**Odour Ductwork (30wks)**		247	216	24-Mar-23 A	21-Dec-23	30	12.3%	ND/2019/02 - 6D (with PH)
450	SWP-SPS1240	Material Submission - Odour Ductwork	22	16	24-Mar-23 A	18-May-23	30	26.5%	ND/2019/02 - 6D (with PH)
451	SWP-SPS1250	Odour Ductwork - 1st round comment by PM & review	24	24	18-May-23	14-Jun-23	30	0%	ND/2019/02 - 6D (with PH)
452	SWP-SPS1260	Odour Ductwork - 2nd submission to PM & approval	19	19	14-Jun-23	06-Jul-23	30	0%	ND/2019/02 - 6D (with PH)
453	SWP-SPS1270	Procurement & Delivery of Odour Ductwork (30wks)	157	157	06-Jul-23	21-Dec-23	30	0%	ND/2019/02 - 6D (with PH)
454	**Sensors and Instruments (30wks)**		188	157	24-Mar-23 A	19-Oct-23	146	16.16%	ND/2019/02 - 6D (with PH)
455	SWP-SPS1280	Material Submission - Sensors and Instruments	22	0	24-Mar-23 A	21-Apr-23 A		100%	ND/2019/02 - 6D (with PH)
456	SWP-SPS1290	Sensors and Instruments - 1st round comment by PM & review	24	0	21-Apr-23 A	18-May-23 A		100%	ND/2019/02 - 6D (with PH)
457	SWP-SPS1300	Sensors and Instruments - 2nd submission to PM & approval	19	0	18-May-23 A	08-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
458	SWP-SPS1310	Procurement & Delivery of Sensors and Instruments (30wks)	157	157	02-May-23	19-Oct-23	146	0%	ND/2019/02 - 6D (with PH)
459	**Chemical Dosing System (30wks)**		247	216	24-Mar-23 A	21-Dec-23	113	12.3%	ND/2019/02 - 6D (with PH)
460	SWP-SPS1520	Material Submission - Chemical Dosing System	22	16	24-Mar-23 A	18-May-23	113	26.5%	ND/2019/02 - 6D (with PH)
461	SWP-SPS1530	Chemical Dosing System - 1st round comment by PM & review	24	24	18-May-23	14-Jun-23	113	0%	ND/2019/02 - 6D (with PH)
462	SWP-SPS1540	Chemical Dosing System - 2nd submission to PM & approval	19	19	14-Jun-23	06-Jul-23	113	0%	ND/2019/02 - 6D (with PH)
463	SWP-SPS1550	Procurement & Delivery of Chemical Dosing System (30wks)	157	157	06-Jul-23	21-Dec-23	113	0%	ND/2019/02 - 6D (with PH)
464	**Davit (24wks)**		202	172	24-Mar-23 A	04-Nov-23	127	15%	ND/2019/02 - 6D (with PH)
465	SWP-SPS1480	Material Submission - Davit	22	16	24-Mar-23 A	18-May-23	127	26.5%	ND/2019/02 - 6D (with PH)
466	SWP-SPS1490	Davit - 1st round comment by PM & review	27	27	18-May-23	16-Jun-23	127	0%	ND/2019/02 - 6D (with PH)
467	SWP-SPS1500	Davit - 2nd submission to PM & approval	19	19	16-Jun-23	08-Jul-23	127	0%	ND/2019/02 - 6D (with PH)
468	SWP-SPS1510	Procurement & Delivery of Davit (24wks)	110	110	08-Jul-23	04-Nov-23	127	0%	ND/2019/02 - 6D (with PH)
469	**A-frame (20wks)**		196	166	24-Mar-23 A	30-Oct-23	133	15.48%	ND/2019/02 - 6D (with PH)
470	SWP-SPS1440	Material Submission - A-frame	22	16	24-Mar-23 A	18-May-23	133	26.5%	ND/2019/02 - 6D (with PH)
471	SWP-SPS1450	A-frame - 1st round comment by PM & review	27	27	18-May-23	16-Jun-23	133	0%	ND/2019/02 - 6D (with PH)
472	SWP-SPS1460	A-frame - 2nd submission to PM & approval	19	19	16-Jun-23	08-Jul-23	133	0%	ND/2019/02 - 6D (with PH)
473	SWP-SPS1470	Procurement & Delivery of A-frame (20wks)	104	104	08-Jul-23	30-Oct-23	133	0%	ND/2019/02 - 6D (with PH)
474	**PD (16wks)**		176	145	24-Mar-23 A	06-Oct-23	207	17.28%	ND/2019/02 - 6D (with PH)
475	PD-SPS1110	Material Submission - Sand Filter and Activated Carbon Filter	22	16	24-Mar-23 A	18-May-23	207	26.5%	ND/2019/02 - 6D (with PH)
476	PD-SPS1120	Sand Filter and Activated Carbon Filter - 1st round comment by PM & review	25	25	18-May-23	15-Jun-23	207	0%	ND/2019/02 - 6D (with PH)
477	PD-SPS1130	Sand Filter and Activated Carbon Filter - 2nd submission to PM & approval	19	19	15-Jun-23	06-Jul-23	207	0%	ND/2019/02 - 6D (with PH)
478	PD-SPS1140	Procurement & Delivery of Sand Filter and Activated Carbon Filter (16wks)	85	85	06-Jul-23	06-Oct-23	207	0%	ND/2019/02 - 6D (with PH)
479	**FS (24wks)**		194	194	01-Aug-23	01-Mar-24	70	0%	ND/2019/02 - 6D (with PH)
480	FS-SPS1070	Material Submission - Local Control Panel	22	22	01-Aug-23*	23-Aug-23	70	0%	ND/2019/02 - 6D (with PH)
481	FS-SPS1080	Local Control Panel - 1st round comment by PM & review	25	25	24-Aug-23	19-Sep-23	70	0%	ND/2019/02 - 6D (with PH)
482	FS-SPS1090	Local Control Panel - 2nd submission to PM & approval	19	19	19-Sep-23	11-Oct-23	70	0%	ND/2019/02 - 6D (with PH)
483	FS-SPS1100	Procurement & Delivery of Local Control Panel (24wks)	128	128	11-Oct-23	01-Mar-24	70	0%	ND/2019/02 - 6D (with PH)
484	**MVAC (12wks)**		130	130	03-May-23	19-Sep-23	141	0%	ND/2019/02 - 6D (with PH)
485	MVAC-SPS1040	Material Submission - AC Unit spilit type	22	22	03-May-23*	25-May-23	141	0%	ND/2019/02 - 6D (with PH)
486	MVAC-SPS1050	AC Unit spilit type - 1st round comment by PM & review	25	25	27-May-23	23-Jun-23	141	0%	ND/2019/02 - 6D (with PH)
487	MVAC-SPS1060	AC Unit spilit type - 2nd submission to PM & approval	19	19	23-Jun-23	14-Jul-23	141	0%	ND/2019/02 - 6D (with PH)
488	MVAC-SPS1070	Procurement & Delivery of AC Unit spilit type (12wks)	64	64	14-Jul-23	19-Sep-23	141	0%	ND/2019/02 - 6D (with PH)
489	**ELE (16wks)**		151	151	02-May-23	12-Oct-23	121	0%	ND/2019/02 - 6D (with PH)
490	ELE-SPS1060	Material Submission - PV System	22	22	02-May-23*	24-May-23	121	0%	ND/2019/02 - 6D (with PH)
491	ELE-SPS1070	PV System - 1st round comment by PM & review	25	25	25-May-23	21-Jun-23	121	0%	ND/2019/02 - 6D (with PH)
492	ELE-SPS1080	PV System - 2nd submission to PM & approval	19	19	21-Jun-23	13-Jul-23	121	0%	ND/2019/02 - 6D (with PH)
493	ELE-SPS1090	Procurement & Delivery of PV System (16wks)	85	85	13-Jul-23	12-Oct-23	121	0%	ND/2019/02 - 6D (with PH)
494	**ELV (16wks)**		151	151	03-Oct-23	16-Mar-24	55	0%	ND/2019/02 - 6D (with PH)
495	ELV-SPS1060	Material Submission - SCADA	22	22	03-Oct-23*	26-Oct-23	55	0%	ND/2019/02 - 6D (with PH)
496	ELV-SPS1070	SCADA - 1st round comment by PM & review	25	25	27-Oct-23	22-Nov-23	55	0%	ND/2019/02 - 6D (with PH)
497	ELV-SPS1080	SCADA - 2nd submission to PM & approval	19	19	22-Nov-23	12-Dec-23	55	0%	ND/2019/02 - 6D (with PH)
498	ELV-SPS1090	Procurement & Delivery of SCADA (16wks)	85	85	12-Dec-23	16-Mar-24	55	0%	ND/2019/02 - 6D (with PH)
499	**Footbridge FK2 Road lighting**		409	0	03-Dec-21 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
500	**Electrical schematic (CSF-445)**		409	0	03-Dec-21 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
501	RD-ES1000	Preparation and submission of Footbridge Electrical Schematic	27	0	03-Dec-21 A	04-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
502	RD-ES1010	Footbridge Electrical Schematic - 1st submission to PM & review	13	0	05-Jan-22 A	19-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
503	RD-ES1020	Footbridge Electrical Schematic - 2nd submission to PM & approval	32	0	26-Jul-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
504	RD-ES1030	Footbridge Electrical Schematic - 1st submission to HyD	21	0	05-Oct-22 A	28-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
505	RD-ES1040	Footbridge Electrical Schematic - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
506	**EL System - Electrical and lighting layout (CSF-494)**		400	0	13-Dec-21 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
507	RD-EL1000	Preparation of Electrical and lighting layout (PS section 30)	27	0	13-Dec-21 A	13-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
508	RD-EL1010	Electrical and lighting layout - 1st submission to PM & review	10	0	14-Jan-22 A	25-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
509	RD-EL1020	Electrical and lighting layout - 2nd submission to PM & review	14	0	02-Aug-22 A	17-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
510	RD-EL1025	Electrical and lighting layout - 3rd submission to PM & approval	38	0	18-Aug-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
511	RD-EL1030	Electrical and lighting layout - 1st submission to HyD	30	0	05-Oct-22 A	28-Oct-22 A		100%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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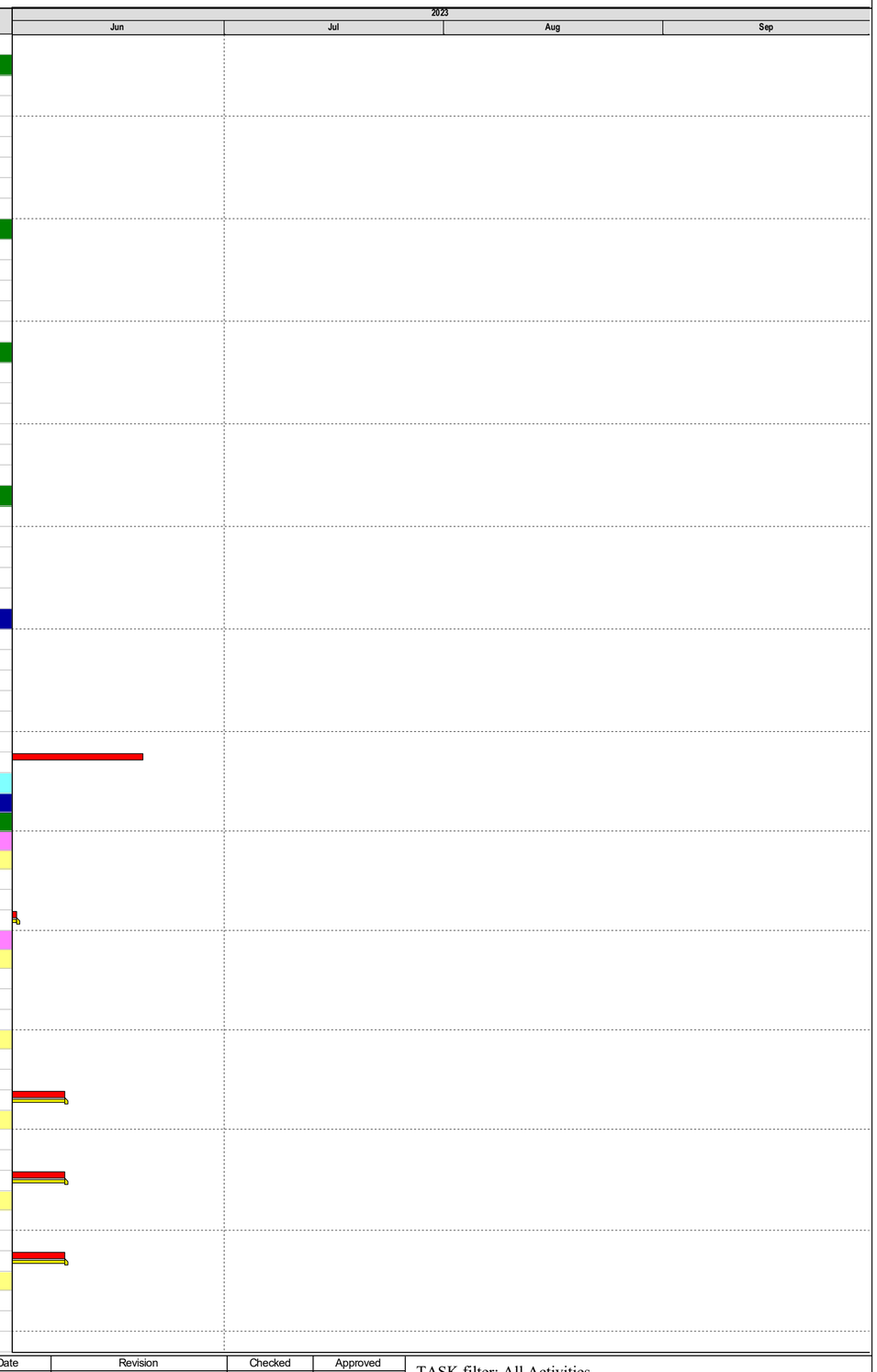
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
512	RD-EL1040	Electrical and lighting layout - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
513	**Materials Submission (CSF-693)**		294	0	11-Apr-22 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
514	RD-MS1000	Preparation and submission of material of footbridge (PS section 30)	26	0	11-Apr-22 A	11-May-22 A		100%	ND/2019/02 - 6D (with PH)
515	RD-MS1010	Material Submission - 1st round comment by PM	12	0	12-May-22 A	25-May-22 A		100%	ND/2019/02 - 6D (with PH)
516	RD-MS1020	Material Submission - 2nd submission to PM	17	0	15-Jul-22 A	03-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
517	RD-MS1025	Material Submission - 3rd submission to PM and comment	40	0	04-Aug-22 A	13-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
518	RD-MS1027	Material Submission - 4th submission to PM and Approval	15	0	14-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
519	RD-MS1030	Material Submission - 1st submission to HyD	21	0	05-Oct-22 A	28-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
520	RD-MS1040	Material Submission - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
521	**Drawing Submission of Road Lighting Layout (CSF-703)**		300	0	04-Apr-22 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
522	RD-RL1000	Preparation & submission of Road Lighting Layout (PS section 30)	24	0	04-Apr-22 A	03-May-22 A		100%	ND/2019/02 - 6D (with PH)
523	RD-RL1010	Road Lighting Layout - 1st round comment by PM	19	0	04-May-22 A	25-May-22 A		100%	ND/2019/02 - 6D (with PH)
524	RD-RL1020	Road Lighting Layout - 2nd submission to PM & approval	18	0	10-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
525	RD-RL1030	Road Lighting Layout - 1st submission to HyD	21	0	05-Oct-22 A	29-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
526	RD-RL1040	Road Lighting Layout - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
527	**Lux Simulation Report (CSF-717)**		299	0	06-Apr-22 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
528	RD-LUX1000	Preparation and submission of Lux Simulation Report (PS section 30)	26	0	06-Apr-22 A	06-May-22 A		100%	ND/2019/02 - 6D (with PH)
529	RD-LUX1010	Lux Simulation Report - 1st submission to PM & review	16	0	07-May-22 A	25-May-22 A		100%	ND/2019/02 - 6D (with PH)
530	RD-LUX1020	Lux Simulation Report - 2nd submission to PM & approval	10	0	23-Aug-22 A	08-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
531	RD-LUX1025	Lux Simulation Report - 3rd submission to PM & approval	19	0	09-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
532	RD-LUX1030	Lux Simulation Report - 1st submission to HyD	21	0	05-Oct-22 A	28-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
533	RD-LUX1040	Lux Simulation Report - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
534	**Internal Arrangement of PB-01 (CSF-726)**		292	0	13-Apr-22 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
535	RD-PB1000	Preparation of Internal Arrangement drawings of PB-01 (PS section 30)	26	0	13-Apr-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
536	RD-PB1010	Internal Arrangement drawings of PB-01 - 1st submission to PM & review	19	0	14-May-22 A	06-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
537	RD-PB1020	Internal Arrangement drawings of PB-01 - 2nd submission to PM & approval	14	0	15-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
538	RD-PB1030	Internal Arrangement drawings of PB-01 - 1st submission to HyD	21	0	05-Oct-22 A	28-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
539	RD-PB1040	Internal Arrangement drawings of PB-01 - Re-submission to HyD and approval	30	0	01-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
540	**Irrigation System (CSF-634)**		403	45	01-Mar-22 A	19-Jun-23	-125	88.83%	ND/2019/02 - 6D (with PH)
541	IS-1000	Preparation & submission of Irrigation System drawings (PS section 3)	26	0	01-Mar-22 A	30-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
542	IS-1010	Irrigation System drawings- 1st submission to PM & review	68	0	31-Mar-22 A	21-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
543	IS-1020	Irrigation System drawings - 2nd submission to PM & review	12	0	22-Jun-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
544	IS-1025	Irrigation System drawings - 3rd submission to PM & approval	50	0	07-Jul-22 A	29-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
545	IS-1027	Irrigation System drawings - 4th submission to PM & approval	50	0	01-Dec-22 A	02-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
546	IS-1030	Irrigation System drawings - 1st submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD	48	0	03-Feb-23 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
547	IS-1040	Irrigation System drawings - Re-submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD and approval	48	45	28-Mar-23 A	19-Jun-23	-125	6.25%	ND/2019/02 - 6D (with PH)
548	**ABWF Submission and Mock Up**		583	372	03-Oct-22 A	08-May-24	35	36.18%	
549	**Visitor Centre**		372	161	03-Oct-22 A	09-Oct-23	170	56.74%	
550	**ABWF Shop Drawing / Method Statement / ITP Submission**		201	147	28-Feb-23 A	09-Oct-23	155	26.62%	ND/2019/02 - 6D (with PH)
551	**Package 1**		82	29	28-Feb-23 A	01-Jun-23	-105	65%	ND/2019/02 - 6D (with PH)
552	**Tile Setting Out Drawing / Block Wall Frame Shop Drawings**		82	29	28-Feb-23 A	01-Jun-23	-105	65%	ND/2019/02 - 6D (with PH)
553	ABWF-P1-1190	Shop Drawing / Method Statement / ITP Submission	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
554	ABWF-P1-1195	Shop Drawing / Method Statement / ITP Submission - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-105	12.5%	ND/2019/02 - 6D (with PH)
555	ABWF-P1-1200	2nd submission to PM & approval	12	12	18-May-23	01-Jun-23	-105	0%	ND/2019/02 - 6D (with PH)
556	**Package 3**		90	36	28-Feb-23 A	09-Jun-23	15	59.46%	ND/2019/02 - 6D (with PH)
557	**Suspended Ceiling**		72	18	28-Feb-23 A	20-May-23	-147	74.69%	ND/2019/02 - 6D (with PH)
558	ABWF-P3-1055	Shop Drawing / Method Statement / ITP Submission - Suspended Ceiling	23	0	28-Feb-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
559	ABWF-P3-1060	Suspended Ceiling - 1st round comment by PM & review	13	7	24-Mar-23 A	09-May-23	-147	44.17%	ND/2019/02 - 6D (with PH)
560	ABWF-P3-1080	Suspended Ceiling - 2nd submission to PM & approval	11	11	09-May-23	20-May-23	-147	0%	ND/2019/02 - 6D (with PH)
561	**Raised Flooring**		88	35	28-Feb-23 A	08-Jun-23	-90	60.43%	ND/2019/02 - 6D (with PH)
562	ABWF-P3-1475	Shop Drawing / Method Statement / ITP Submission - Raised Flooring	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
563	ABWF-P3-1480	Raised Flooring - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-90	12.5%	ND/2019/02 - 6D (with PH)
564	ABWF-P3-1500	Raised Flooring - 2nd submission to PM & approval	19	19	18-May-23	08-Jun-23	-90	0%	ND/2019/02 - 6D (with PH)
565	**Plastic Laminate Wall Panels**		88	35	28-Feb-23 A	08-Jun-23	-70	60.43%	ND/2019/02 - 6D (with PH)
566	ABWF-P3-1505	Shop Drawing / Method Statement / ITP Submission - Plastic Laminate Wall Panel	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
567	ABWF-P3-1510	Plastic Laminate Wall Panel - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-70	12.5%	ND/2019/02 - 6D (with PH)
568	ABWF-P3-1530	Plastic Laminate Wall Panel - 2nd submission to PM & approval	19	19	18-May-23	08-Jun-23	-70	0%	ND/2019/02 - 6D (with PH)
569	**Thermal Insulation Board**		88	35	28-Feb-23 A	08-Jun-23	-148	60.43%	ND/2019/02 - 6D (with PH)
570	ABWF-P3-1535	Shop Drawing / Method Statement / ITP Submission - Thermal insulation Board	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
571	ABWF-P3-1540	Thermal insulation Board - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-148	12.5%	ND/2019/02 - 6D (with PH)
572	ABWF-P3-1560	Thermal insulation Board - 2nd submission to PM & approval	19	19	18-May-23	08-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
573	**Glass Wall**		74	21	28-Feb-23 A	23-May-23	-157	72.01%	ND/2019/02 - 6D (with PH)
574	ABWF-P3-1565	Shop Drawing / Method Statement / ITP Submission - Glass Wall	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
575	ABWF-P3-1570	Glass Wall - 1st round comment by PM & review	19	8	20-Mar-23 A	10-May-23	-157	55.36%	ND/2019/02 - 6D (with PH)
576	ABWF-P3-1590	Glass Wall - 2nd submission to PM & approval	12	12	10-May-23	23-May-23	-157	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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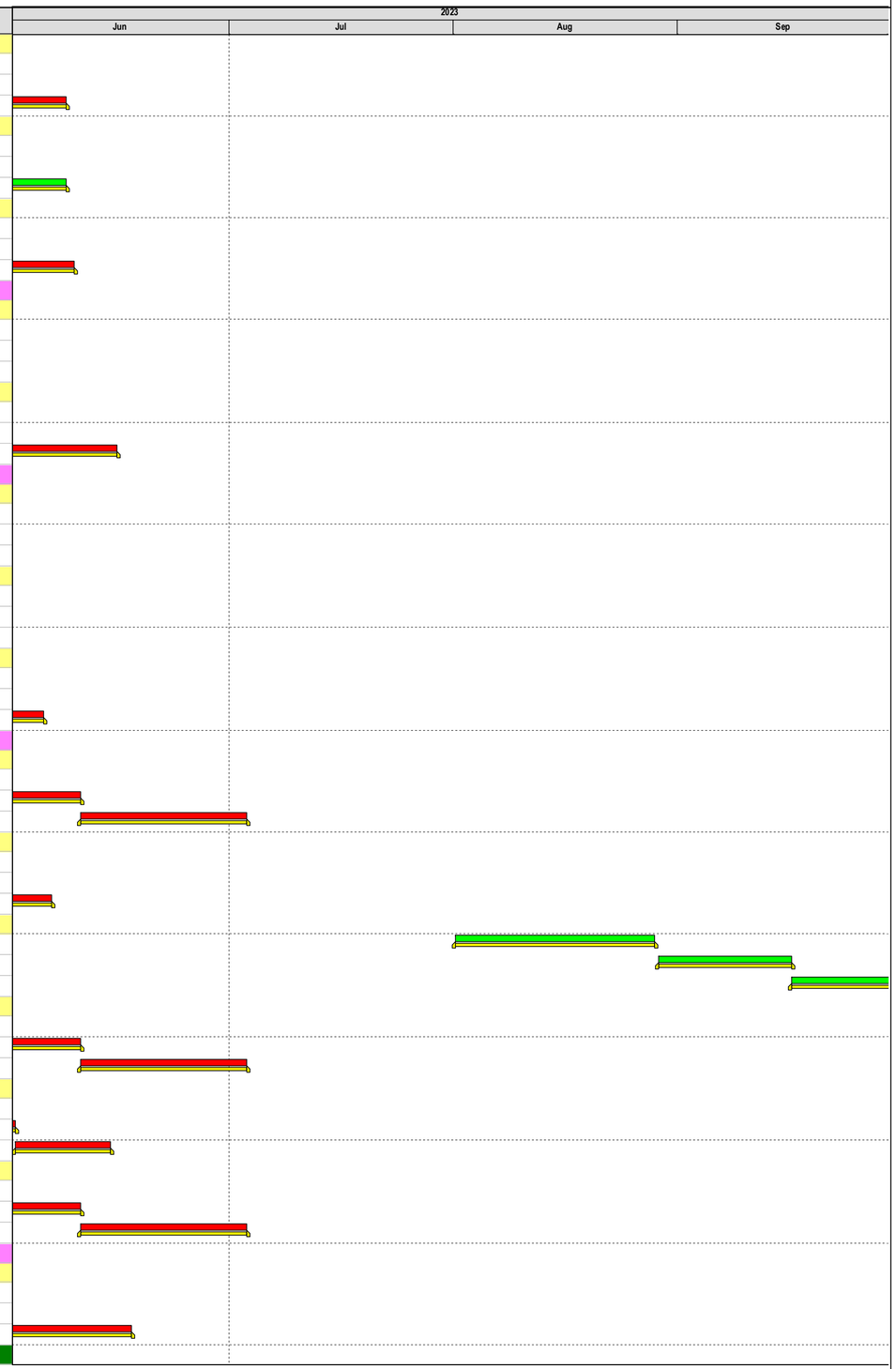
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
577	**Movable Partition**		88	35	28-Feb-23 A	08-Jun-23	-23	60.43%	ND/2019/02 - 6D (with PH)
578	ABWF-P3-1595	Shop Drawing / Method Statement / ITP Submission - Movable Partition	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
579	ABWF-P3-1600	Movable Partition - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-23	12.5%	ND/2019/02 - 6D (with PH)
580	ABWF-P3-1620	Movable Partition - 2nd submission to PM & approval	19	19	18-May-23	08-Jun-23	-23	0%	ND/2019/02 - 6D (with PH)
581	**Timber Deck**		88	35	28-Feb-23 A	08-Jun-23	16	60.43%	ND/2019/02 - 6D (with PH)
582	ABWF-P3-1655	Shop Drawing / Method Statement / ITP Submission - Timber Deck	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
583	ABWF-P3-1660	Timber Deck - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	16	12.5%	ND/2019/02 - 6D (with PH)
584	ABWF-P3-1680	Timber Deck - 2nd submission to PM & approval	19	19	18-May-23	08-Jun-23	16	0%	ND/2019/02 - 6D (with PH)
585	**Roof Hatch**		83	36	08-Mar-23 A	09-Jun-23	-64	56.15%	ND/2019/02 - 6D (with PH)
586	ABWF-P3-1698	Shop Drawing / Method Statement / ITP Submission - Roof Hatch	27	4	08-Mar-23 A	05-May-23	-64	83.33%	ND/2019/02 - 6D (with PH)
587	ABWF-P3-1700	Roof Hatch - 1st round comment by PM & review	13	13	06-May-23	19-May-23	-64	0%	ND/2019/02 - 6D (with PH)
588	ABWF-P3-1720	Roof Hatch - 2nd submission to PM & approval	19	19	20-May-23	09-Jun-23	-64	0%	ND/2019/02 - 6D (with PH)
589	**Package 4**		95	42	28-Feb-23 A	15-Jun-23	-79	56.13%	ND/2019/02 - 6D (with PH)
590	**Timber Door**		76	23	28-Feb-23 A	25-May-23	-60	70.32%	ND/2019/02 - 6D (with PH)
591	ABWF-P4-1085	Shop Drawing / Method Statement / ITP Submission- Timber Door and Ironmongeries	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
592	ABWF-P4-1090	Shop Drawing / Method Statement / ITP Submission - Timber Door and Ironmongeries - 1st round comment b	12	10	28-Mar-23 A	12-May-23	-60	18.75%	ND/2019/02 - 6D (with PH)
593	ABWF-P4-1110	Shop Drawing / Method Statement / ITP Submission - Timber Door and Ironmongeries - 2nd submission to PI	12	12	12-May-23	25-May-23	-60	0%	ND/2019/02 - 6D (with PH)
594	**Fitting & Fixtures**		88	42	08-Mar-23 A	15-Jun-23	-124	52.76%	ND/2019/02 - 6D (with PH)
595	ABWF-P4-1625	Shop Drawing / Method Statement / ITP Submission - Fitting & Fixture	27	4	08-Mar-23 A	05-May-23	-124	83.33%	ND/2019/02 - 6D (with PH)
596	ABWF-P4-1630	Fitting & Fixture - 1st round comment by PM & review	19	19	06-May-23	25-May-23	-124	0%	ND/2019/02 - 6D (with PH)
597	ABWF-P4-1650	Fitting & Fixture - 2nd submission to PM & approval	19	19	25-May-23	15-Jun-23	-124	0%	ND/2019/02 - 6D (with PH)
598	**Package 5**		85	31	28-Feb-23 A	05-Jun-23	-80	62.96%	ND/2019/02 - 6D (with PH)
599	**Window**		38	9	28-Feb-23 A	11-May-23	-123	75.87%	ND/2019/02 - 6D (with PH)
600	ABWF-P5-1145	Shop Drawing / Method Statement / ITP Submission - Window	13	0	28-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
601	ABWF-P5-1150	Window - 1st round comment by PM & review	12	0	14-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
602	ABWF-P5-1170	Window - 2nd submission to PM & approval	12	9	28-Mar-23 A	11-May-23	-123	25.89%	ND/2019/02 - 6D (with PH)
603	**Louvre**		69	15	28-Feb-23 A	17-May-23	-120	77.58%	ND/2019/02 - 6D (with PH)
604	ABWF-P5-1025	Shop Drawing / Method Statement / ITP Submission - Lourve	18	0	28-Feb-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
605	ABWF-P5-1030	Shop Drawing / Method Statement / ITP Submission - Lourve - 1st round comment by PM & review	18	7	18-Mar-23 A	08-May-23	-120	63.13%	ND/2019/02 - 6D (with PH)
606	ABWF-P5-1050	Shop Drawing Submission - Lourve - 2nd submission to PM & approval	9	9	08-May-23	17-May-23	-120	0%	ND/2019/02 - 6D (with PH)
607	**Aluminium Grilles**		85	31	28-Feb-23 A	05-Jun-23	-80	62.96%	ND/2019/02 - 6D (with PH)
608	ABWF-P5-1115	Shop Drawing / Method Statement / ITP Submission- Aluminium Grilles	27	0	28-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
609	ABWF-P5-1120	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles - 1st round comment by PM & review	19	16	28-Mar-23 A	18-May-23	-80	12.5%	ND/2019/02 - 6D (with PH)
610	ABWF-P5-1140	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles 2nd submission to PM & approval	15	15	18-May-23	05-Jun-23	-80	0%	ND/2019/02 - 6D (with PH)
611	**Package 6**		180	147	22-Mar-23 A	09-Oct-23	155	18.1%	ND/2019/02 - 6D (with PH)
612	**Fence / Handrail / Parapet**		88	56	22-Mar-23 A	03-Jul-23	-148	36.81%	ND/2019/02 - 6D (with PH)
613	ABWF-P6-1180	Shop Drawing / Method Statement / ITP Submission - Fence / Handrail / Parapet	27	19	22-Mar-23 A	20-May-23	-148	30.42%	ND/2019/02 - 6D (with PH)
614	ABWF-P6-1190	Fence / Handrail / Parapet - 1st round comment by PM & review	19	19	20-May-23	10-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
615	ABWF-P6-1200	Fence / Handrail / Parapet - 2nd submission to PM & approval	19	19	10-Jun-23	03-Jul-23	-148	0%	ND/2019/02 - 6D (with PH)
616	**Skylight**		65	33	22-Mar-23 A	06-Jun-23	-165	49.83%	ND/2019/02 - 6D (with PH)
617	ABWF-P3-1000	Shop Drawing / Method Statement / ITP Submission - Skylight	16	8	22-Mar-23 A	10-May-23	-165	50.69%	ND/2019/02 - 6D (with PH)
618	ABWF-P3-1010	Shop Drawing / Method Statement / ITP Submission - Skylight - 1st round comment by PM & review	12	12	10-May-23	23-May-23	-165	0%	ND/2019/02 - 6D (with PH)
619	ABWF-P3-1020	Shop Drawing / Method Statement / ITP Submission - Skylight - 2nd submission to PM & approval	12	12	23-May-23	06-Jun-23	-165	0%	ND/2019/02 - 6D (with PH)
620	**Roller Shutters**		64	64	01-Aug-23	09-Oct-23	155	0%	ND/2019/02 - 6D (with PH)
621	ABWF-P3-1210	Shop Drawing / Method Statement / ITP Submission - Shutter	27	27	01-Aug-23*	28-Aug-23	155	0%	ND/2019/02 - 6D (with PH)
622	ABWF-P3-1220	Shop Drawing / Method Statement / ITP Submission - Shutter - 1st round comment by PM & review	19	19	29-Aug-23	16-Sep-23	155	0%	ND/2019/02 - 6D (with PH)
623	ABWF-P3-1230	Shop Drawing / Method Statement / ITP Submission - Shutter - 2nd submission to PM & approval	19	19	16-Sep-23	09-Oct-23	155	0%	ND/2019/02 - 6D (with PH)
624	**Fall Arrest system**		88	56	22-Mar-23 A	03-Jul-23	-29	36.81%	ND/2019/02 - 6D (with PH)
625	ABWF-P3-1240	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System	27	19	22-Mar-23 A	20-May-23	-29	30.42%	ND/2019/02 - 6D (with PH)
626	ABWF-P3-1250	Shop Drawing / Method Statement / ITP Submission - 1st round comment by PM & review	19	19	20-May-23	10-Jun-23	-29	0%	ND/2019/02 - 6D (with PH)
627	ABWF-P3-1260	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System - 2nd submission to PM & approval	19	19	10-Jun-23	03-Jul-23	-29	0%	ND/2019/02 - 6D (with PH)
628	**Steel Doors**		73	41	22-Mar-23 A	14-Jun-23	-138	44.39%	ND/2019/02 - 6D (with PH)
629	ABWF-P3-1325	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries	18	10	22-Mar-23 A	11-May-23	-138	45.63%	ND/2019/02 - 6D (with PH)
630	ABWF-P3-1330	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 1st round comment b	19	19	11-May-23	01-Jun-23	-138	0%	ND/2019/02 - 6D (with PH)
631	ABWF-P3-1350	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 2nd submission to PI	12	12	01-Jun-23	14-Jun-23	-138	0%	ND/2019/02 - 6D (with PH)
632	**Sundry Metal Works (Covers / Cat Ladder / Steel Staircase)**		88	56	22-Mar-23 A	03-Jul-23	-87	36.81%	ND/2019/02 - 6D (with PH)
633	ABWF-P4-1000	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works	27	19	22-Mar-23 A	20-May-23	-87	30.42%	ND/2019/02 - 6D (with PH)
634	ABWF-P4-1010	Shop Drawing / Method Statement / ITP Submission- Sundry Metal Works - 1st round comment by PM & revie	19	19	20-May-23	10-Jun-23	-87	0%	ND/2019/02 - 6D (with PH)
635	ABWF-P4-1020	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works - 2nd submission to PM & approval	19	19	10-Jun-23	03-Jul-23	-87	0%	ND/2019/02 - 6D (with PH)
636	**Pacakge 7**		88	44	10-Mar-23 A	17-Jun-23	-118	50.25%	ND/2019/02 - 6D (with PH)
637	**Toilet Cubicle & Shower Cubicle**		88	44	10-Mar-23 A	17-Jun-23	-118	50.25%	ND/2019/02 - 6D (with PH)
638	ABWF-P3-1270	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle	27	7	10-Mar-23 A	08-May-23	-118	75%	ND/2019/02 - 6D (with PH)
639	ABWF-P3-1280	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 1st round comment by PM & review	19	19	09-May-23	29-May-23	-118	0%	ND/2019/02 - 6D (with PH)
640	ABWF-P3-1290	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 2nd submission to PM & approval	19	19	29-May-23	17-Jun-23	-118	0%	ND/2019/02 - 6D (with PH)
641	**ABWF Material Submission**		368	157	03-Oct-22 A	05-Oct-23	-42	57.36%	



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

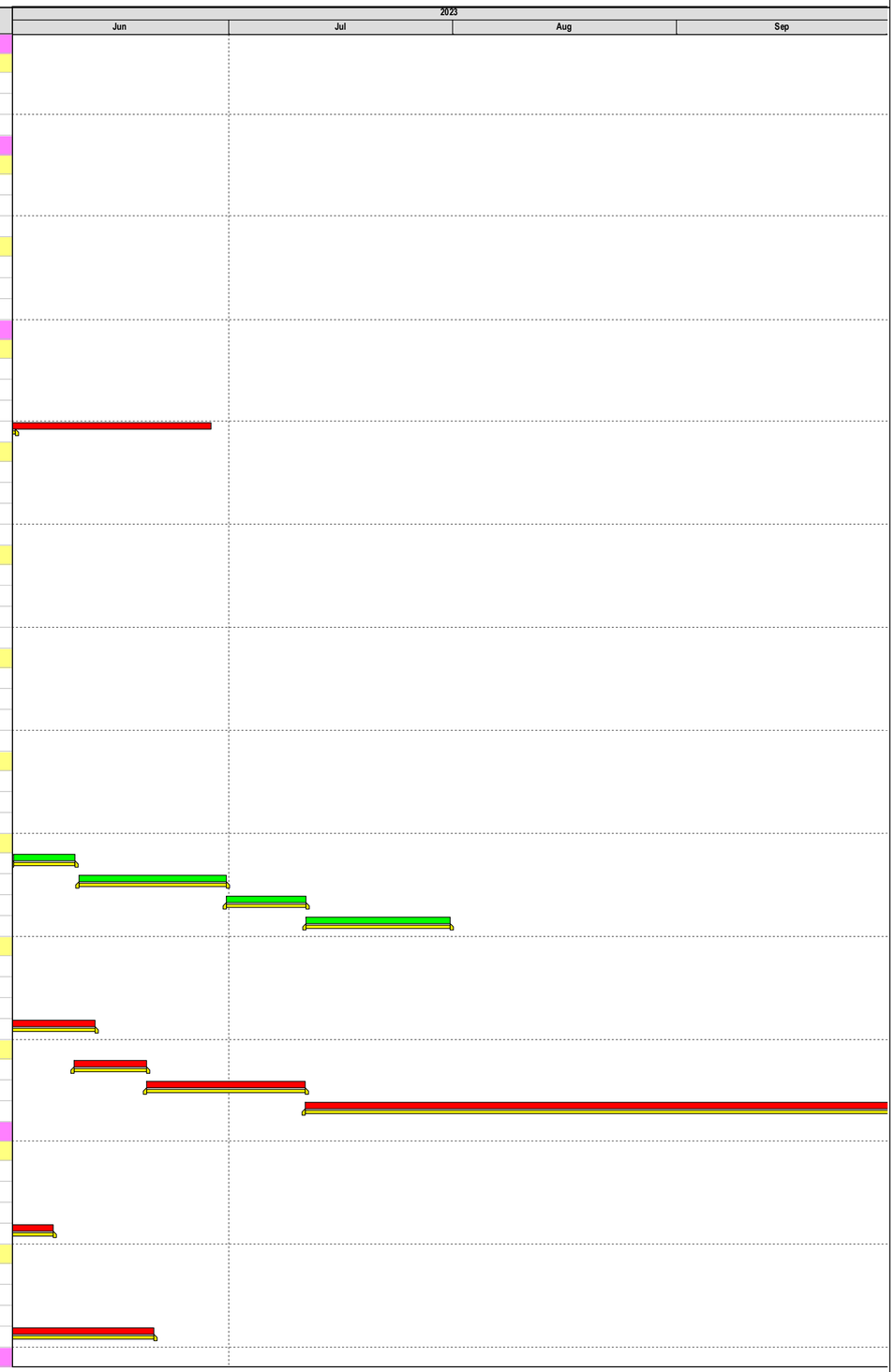
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
642		**Package 1**	68	15	01-Mar-23 A	17-May-23	-90	78.43%	ND/2019/02 - 6D (with PH)
643		**Concrete Block**	68	15	01-Mar-23 A	17-May-23	-90	78.43%	ND/2019/02 - 6D (with PH)
644	ABWF-VC3110	Material & Sample Submission - Gypsum Block	12	0	01-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
645	ABWF-VC3120	Material & Sample Submission - Gypsum Block - 1st round comment by PM & review	19	2	14-Mar-23 A	03-May-23	-90	88.1%	ND/2019/02 - 6D (with PH)
646	ABWF-VC3130	Material & Sample Submission - Gypsum Block - 2nd submission to PM & approval	12	12	04-May-23	17-May-23	-90	0%	ND/2019/02 - 6D (with PH)
647		**Package 2**	106	15	17-Jan-23 A	17-May-23	-61	86.23%	ND/2019/02 - 6D (with PH)
648		**Internal Wall Painting (CSF-1294)**	54	0	17-Jan-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
649	ABWF-VC3000	Material & Sample Submission - Internal Wall Painting	15	0	17-Jan-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
650	ABWF-VC3010	Material & Sample Submission - Internal Wall Painting - 1st round comment by PM & review	19	0	09-Feb-23 A	28-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
651	ABWF-VC3020	Material & Sample Submission - Internal Wall Painting - 2nd submission to PM & approval	12	0	04-Mar-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
652		**External Wall Painting**	68	15	28-Feb-23 A	17-May-23	-100	78.59%	ND/2019/02 - 6D (with PH)
653	ABWF-VC3180	Material & Sample Submission - External Wall Painting	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
654	ABWF-VC3190	Material & Sample Submission - External Wall Painting - 1st round comment by PM & review	12	2	20-Mar-23 A	03-May-23	-100	83.04%	ND/2019/02 - 6D (with PH)
655	ABWF-VC3200	Material & Sample Submission - External Wall Painting - 2nd round submission to PM & approval	12	12	03-May-23	17-May-23	-100	0%	ND/2019/02 - 6D (with PH)
656		**Package 3**	332	144	03-Oct-22 A	05-Oct-23	-38	56.6%	ND/2019/02 - 6D (with PH)
657		**External suspended Baffle Ceiling (CSF-1103)**	216	53	03-Oct-22 A	28-Jun-23	-138	75.58%	ND/2019/02 - 6D (with PH)
658	ABWF-VC3250	Material & Sample Submission - External Suspended Baffle Ceiling	18	0	03-Oct-22 A	02-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
659	ABWF-VC3260	Material & Sample Submission 1st round comment by PM & review	16	0	03-Nov-22 A	08-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
660	ABWF-VC3270	Material & Sample Submission, 2nd round comment by PM & approval	18	0	28-Feb-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
661	ABWF-VC3280	Material Procurement of External Suspended Baffle Ceiling	64	53	18-Mar-23 A	28-Jun-23	-138	17.53%	ND/2019/02 - 6D (with PH)
662		**Movable Folding Partition (CSF-1104)**	159	0	03-Oct-22 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
663	ABWF-VC3650	Material & Sample Submission - Movable Folding Partition	23	0	03-Oct-22 A	02-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
664	ABWF-VC3660	Material & Sample Submission 1st round comment by PM & review	19	0	03-Nov-22 A	08-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
665	ABWF-VC3670	Material & Sample Submission, 2nd round comment by PM & approval	19	0	01-Feb-23 A	20-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
666	ABWF-VC3680	Material Procurement of Movable Folding Partition	19	0	07-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
667		**Internal Acoustic Ceiling (CSF-1105)**	162	0	03-Oct-22 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
668	ABWF-VC3290	Material & Sample Submission - Acoustic Ceiling	23	0	03-Oct-22 A	02-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
669	ABWF-VC3300	Material & Sample Submission 1st round comment by PM & review	15	0	03-Nov-22 A	14-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
670	ABWF-VC3310	Material & Sample Submission, 2nd round comment by PM & approval	9	0	28-Feb-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
671	ABWF-VC3320	Material Procurement of Acoustic Ceiling	19	0	09-Mar-23 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
672		**Raised Floor (CSF-1118)**	94	0	19-Oct-22 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
673	ABWF-VC3210	Material & Sample Submission - Raised Floor	22	0	19-Oct-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
674	ABWF-VC3220	Material & Sample Submission 1st round comment by PM & review	19	0	12-Nov-22 A	19-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
675	ABWF-VC3230	Material & Sample Submission, 2nd round comment by PM & approval	33	0	04-Jan-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
676	ABWF-VC3240	Material Procurement of Raised Floor	19	0	28-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
677		**Glass Wall**	36	7	01-Mar-23 A	08-May-23	-143	81.25%	ND/2019/02 - 6D (with PH)
678	ABWF-VC3330	Material & Sample Submission - Glass Wall	13	0	01-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
679	ABWF-VC3340	Material & Sample Submission 1st round comment by PM & review	13	0	15-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
680	ABWF-VC3350	Material & Sample Submission, 2nd round comment by PM & approval	9	7	29-Mar-23 A	08-May-23	-143	25%	ND/2019/02 - 6D (with PH)
681		**Timber Deck**	55	55	01-Jun-23	31-Jul-23	23	0%	ND/2019/02 - 6D (with PH)
682	ABWF-VC3370	Material & Sample Submission - Timber Deck	9	9	01-Jun-23*	09-Jun-23	14	0%	ND/2019/02 - 6D (with PH)
683	ABWF-VC3380	Material & Sample Submission - 1st round comment by PM & review	19	19	10-Jun-23	30-Jun-23	23	0%	ND/2019/02 - 6D (with PH)
684	ABWF-VC3390	Material & Sample Submission -, 2nd round comment by PM & approval	9	9	30-Jun-23	11-Jul-23	23	0%	ND/2019/02 - 6D (with PH)
685	ABWF-VC3400	Material Procurement of Timber Deck	19	19	11-Jul-23	31-Jul-23	23	0%	ND/2019/02 - 6D (with PH)
686		**Timber Flooring**	80	38	14-Mar-23 A	12-Jun-23	-111	51.68%	ND/2019/02 - 6D (with PH)
687	ABWF-VC3610	Material & Sample Submission - Timber Flooring	9	0	14-Mar-23 A	22-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
688	ABWF-VC3620	Material & Sample Submission - 1st round comment by PM & review	19	11	23-Mar-23 A	12-May-23	-111	41.67%	ND/2019/02 - 6D (with PH)
689	ABWF-VC3630	Material & Sample Submission -, 2nd round comment by PM & approval	9	9	12-May-23	22-May-23	-111	0%	ND/2019/02 - 6D (with PH)
690	ABWF-VC3640	Material Procurement of Timber Deck	19	19	22-May-23	12-Jun-23	-111	0%	ND/2019/02 - 6D (with PH)
691		**Roof Hatch**	108	108	09-Jun-23	05-Oct-23	-64	0%	ND/2019/02 - 6D (with PH)
692	ABWF-VC3690	Material & Sample Submission - Roof Hatch	9	9	09-Jun-23	19-Jun-23	-64	0%	ND/2019/02 - 6D (with PH)
693	ABWF-VC3700	Material & Sample Submission - 1st round comment by PM & review	19	19	19-Jun-23	11-Jul-23	-64	0%	ND/2019/02 - 6D (with PH)
694	ABWF-VC3720	Material Procurement and Delivery of Roof Hatch	80	80	11-Jul-23	05-Oct-23	-64	0%	ND/2019/02 - 6D (with PH)
695		**Package 4**	100	47	28-Feb-23 A	20-Jun-23	-84	53.44%	ND/2019/02 - 6D (with PH)
696		**Timber Door**	87	33	28-Feb-23 A	06-Jun-23	-70	61.67%	ND/2019/02 - 6D (with PH)
697	ABWF-VC3410	Material & Sample Submission - Timber Doors	9	0	28-Feb-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
698	ABWF-VC3420	Material & Sample Submission - 1st round comment by PM & review	18	0	09-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
699	ABWF-VC3430	Material & Sample Submission - , 2nd round comment by PM & approval	18	15	28-Mar-23 A	17-May-23	-70	13.13%	ND/2019/02 - 6D (with PH)
700	ABWF-VC3440	Material Procurement of Timber Doors	18	18	17-May-23	06-Jun-23	-70	0%	ND/2019/02 - 6D (with PH)
701		**Fitting and Fixtures**	100	47	28-Feb-23 A	20-Jun-23	-129	53.44%	ND/2019/02 - 6D (with PH)
702	ABWF-VC3450	Material & Sample Submission - Fitting and Fixtures	18	0	28-Feb-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
703	ABWF-VC3460	Material & Sample Submission - 1st round comment by PM & review	19	7	18-Mar-23 A	09-May-23	-129	60.12%	ND/2019/02 - 6D (with PH)
704	ABWF-VC3470	Material & Sample Submission - , 2nd round comment by PM & approval	12	12	09-May-23	22-May-23	-129	0%	ND/2019/02 - 6D (with PH)
705	ABWF-VC3480	Material Procurement of - Fitting and Fixtures	27	27	22-May-23	20-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
706		**Package 5**	111	57	28-Feb-23 A	04-Jul-23	-106	48.29%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

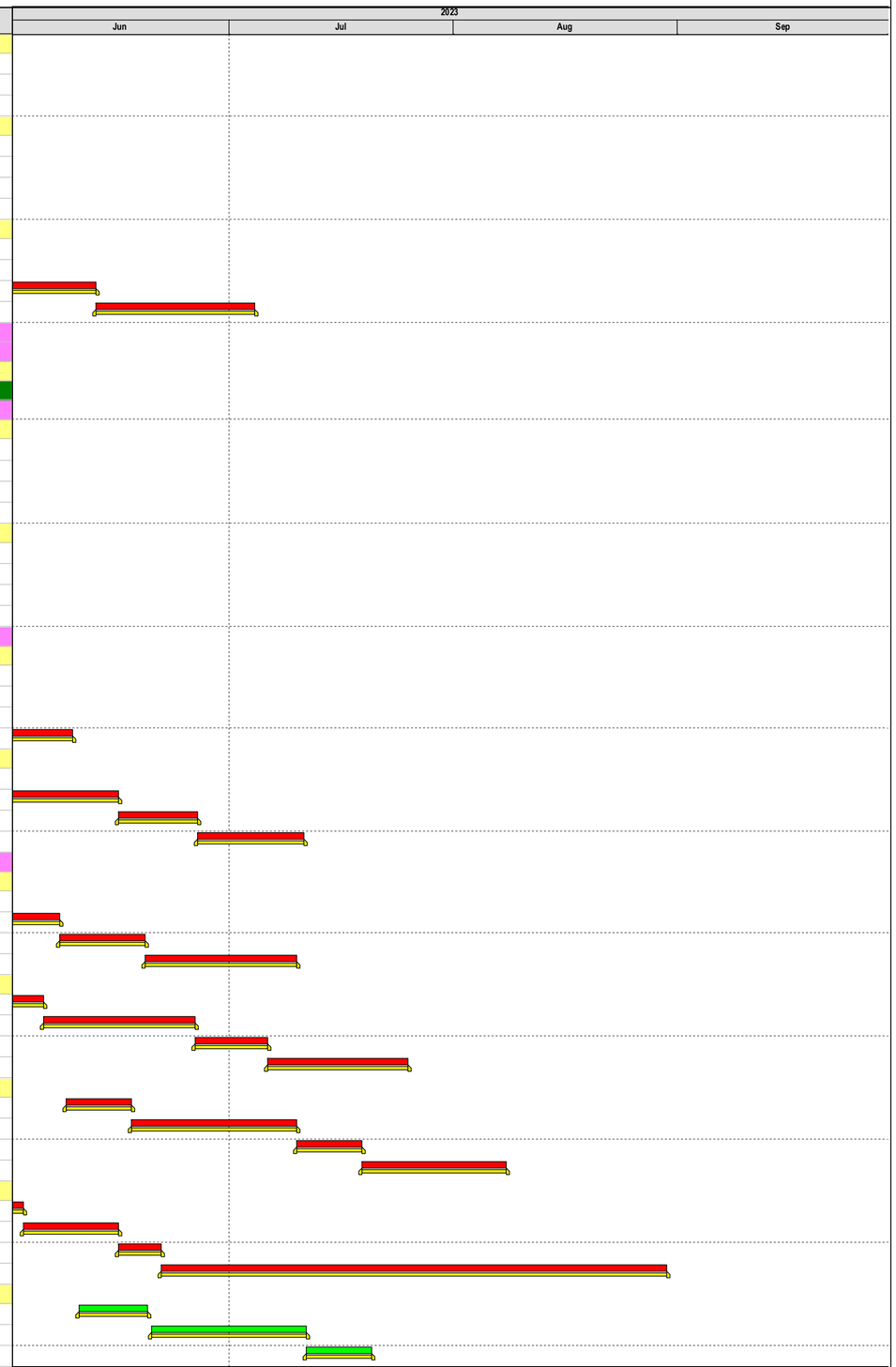
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 11 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
707	**Windows**		44	15	28-Feb-23 A	17-May-23	-129	65.25%	ND/2019/02 - 6D (with PH)
708	ABWF-VC3530	Material & Sample Submission - Window	18	0	28-Feb-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
709	ABWF-VC3540	Material & Sample Submission - 1st round comment by PM & review	11	0	18-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
710	ABWF-VC3550	Material & Sample Submission -, 2nd round comment by PM & approval	16	15	30-Mar-23 A	17-May-23	-129	3.47%	ND/2019/02 - 6D (with PH)
711	**Lourves**		79	25	28-Feb-23 A	29-May-23	-130	67.94%	ND/2019/02 - 6D (with PH)
712	ABWF-VC3490	Material & Sample Submission - Lourves	16	0	28-Feb-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
713	ABWF-VC3500	Material & Sample Submission 1st round comment by PM & review	13	0	17-Mar-23 A	02-May-23	-130	97.5%	ND/2019/02 - 6D (with PH)
714	ABWF-VC3510	Material & Sample Submission , 2nd round comment by PM & approval	12	12	02-May-23	15-May-23	-130	0%	ND/2019/02 - 6D (with PH)
715	ABWF-VC3520	Material Procurement of Lourves	12	12	15-May-23	29-May-23	-130	0%	ND/2019/02 - 6D (with PH)
716	**Alumninum Grilles**		111	57	28-Feb-23 A	04-Jul-23	-106	48.29%	ND/2019/02 - 6D (with PH)
717	ABWF-VC3570	Material & Sample Submission - Aluminium Grilles	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
718	ABWF-VC3580	Material & Sample Submission 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-106	25.42%	ND/2019/02 - 6D (with PH)
719	ABWF-VC3590	Material & Sample Submission , 2nd round comment by PM & approval	19	19	22-May-23	12-Jun-23	-106	0%	ND/2019/02 - 6D (with PH)
720	ABWF-VC3600	Material Procurement of Window / Lourves	19	19	12-Jun-23	04-Jul-23	-106	0%	ND/2019/02 - 6D (with PH)
721	**Package 6**		0	0			0	0%	
722	**Package 7**		0	0			0	0%	
723	**Toilet Cubicle & Shower Cubicle**		0	0			0	0%	
724	**Mock Up**		189	119	11-Feb-23 A	07-Sep-23	-13	37.04%	ND/2019/02 - 6D (with PH)
725	**Package 1**		42	0	11-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
726	**Plastering / Tile Adhesive**		42	0	11-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
727	ABWF-VC1000	Fabrication of Mock Up - Plastering / Tile Adhesive	9	0	11-Feb-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
728	ABWF-VC1010	Mock Up 1st round comment by PM & review	9	0	23-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
729	ABWF-VC1020	Mock Up modification, 2nd round comment by PM & approval	9	0	04-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
730	ABWF-VC1030	Material Procurement of Plastering material / Tile Adhesive	12	0	14-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
731	**Internal tiling works**		42	0	11-Feb-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
732	ABWF-VC1160	Fabrication of Mock Up - Internal tiling works	9	0	11-Feb-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
733	ABWF-VC1170	Mock Up 1st round comment by PM & review	9	0	23-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
734	ABWF-VC1180	Mock Up modification, 2nd round comment by PM & approval	9	0	04-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
735	ABWF-VC1190	Material Procurement of Internal tiling works	12	0	14-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
736	**Package 2**		101	63	17-Mar-23 A	11-Jul-23	-74	37.11%	ND/2019/02 - 6D (with PH)
737	**Internal Wall Painting**		73	36	17-Mar-23 A	09-Jun-23	-46	51.06%	ND/2019/02 - 6D (with PH)
738	ABWF-VC1960	Fabrication of Mock Up - Internal Wall Painting	9	0	17-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
739	ABWF-VC1970	Mock Up 1st round comment by PM & review	19	15	27-Mar-23 A	17-May-23	-46	22.02%	ND/2019/02 - 6D (with PH)
740	ABWF-VC1980	Mock Up modification, 2nd round comment by PM & approval	9	9	17-May-23	27-May-23	-46	0%	ND/2019/02 - 6D (with PH)
741	ABWF-VC1990	Material Procurement for Internal Wall Painting	12	12	27-May-23	09-Jun-23	-46	0%	ND/2019/02 - 6D (with PH)
742	**External Wall Painting**		49	49	17-May-23	11-Jul-23	-100	0%	ND/2019/02 - 6D (with PH)
743	ABWF-VC3140	Fabrication of Mock Up - External Wall Painting	9	9	17-May-23	27-May-23	-100	0%	ND/2019/02 - 6D (with PH)
744	ABWF-VC3150	Mock Up 1st round comment by PM & review	19	19	27-May-23	15-Jun-23	-100	0%	ND/2019/02 - 6D (with PH)
745	ABWF-VC3160	Mock Up modification, 2nd round comment by PM & approval	9	9	15-Jun-23	26-Jun-23	-100	0%	ND/2019/02 - 6D (with PH)
746	ABWF-VC3170	Material Procurement for External Wall Painting	12	12	26-Jun-23	11-Jul-23	-100	0%	ND/2019/02 - 6D (with PH)
747	**Package 3**		93	93	20-May-23	30-Aug-23	-5	0%	ND/2019/02 - 6D (with PH)
748	**External suspended Baffle Ceiling**		44	44	20-May-23	10-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
749	ABWF-VC1360	Fabrication of Mock Up - External Suspended Baffle Ceiling	9	9	20-May-23	31-May-23	-147	0%	ND/2019/02 - 6D (with PH)
750	ABWF-VC1370	Mock Up 1st round comment by PM & review	7	7	31-May-23	07-Jun-23	-147	0%	ND/2019/02 - 6D (with PH)
751	ABWF-VC1380	Mock Up modification, 2nd round comment by PM & approval	11	11	07-Jun-23	19-Jun-23	-147	0%	ND/2019/02 - 6D (with PH)
752	ABWF-VC1390	Material Procurement of External Suspended Baffle Ceiling	18	18	19-Jun-23	10-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
753	**Internal Acoustic Ceiling**		60	60	20-May-23	25-Jul-23	-126	0%	ND/2019/02 - 6D (with PH)
754	ABWF-VC1400	Fabrication of Mock Up - Acoustic Ceiling	13	13	20-May-23	05-Jun-23	-126	0%	ND/2019/02 - 6D (with PH)
755	ABWF-VC1410	Mock Up 1st round comment by PM & review	19	19	05-Jun-23	26-Jun-23	-126	0%	ND/2019/02 - 6D (with PH)
756	ABWF-VC1420	Mock Up modification, 2nd round comment by PM & approval	9	9	26-Jun-23	06-Jul-23	-126	0%	ND/2019/02 - 6D (with PH)
757	ABWF-VC1430	Material Procurement of Acoustic Ceiling	19	19	06-Jul-23	25-Jul-23	-126	0%	ND/2019/02 - 6D (with PH)
758	**Raised Floor**		55	55	08-Jun-23	08-Aug-23	-90	0%	ND/2019/02 - 6D (with PH)
759	ABWF-VC1080	Fabrication of Mock Up - Raised Floor	9	9	08-Jun-23	17-Jun-23	-90	0%	ND/2019/02 - 6D (with PH)
760	ABWF-VC1090	Mock Up 1st round comment by PM & review	19	19	17-Jun-23	10-Jul-23	-90	0%	ND/2019/02 - 6D (with PH)
761	ABWF-VC1100	Mock Up modification, 2nd round comment by PM & approval	9	9	10-Jul-23	19-Jul-23	-90	0%	ND/2019/02 - 6D (with PH)
762	ABWF-VC1110	Material Procurement of Raised Floor	19	19	19-Jul-23	08-Aug-23	-90	0%	ND/2019/02 - 6D (with PH)
763	**Glass Wall**		91	91	23-May-23	30-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
764	ABWF-VC3030	Fabrication of Mock Up - Glass Wall	9	9	23-May-23	02-Jun-23	-157	0%	ND/2019/02 - 6D (with PH)
765	ABWF-VC3040	Mock Up 1st round comment by PM & review	12	12	02-Jun-23	15-Jun-23	-157	0%	ND/2019/02 - 6D (with PH)
766	ABWF-VC3050	Mock Up modification, 2nd round comment by PM & approval	5	5	15-Jun-23	21-Jun-23	-157	0%	ND/2019/02 - 6D (with PH)
767	ABWF-VC3060	Material Procurement of Glass Wall	64	64	21-Jun-23	30-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
768	**Timber Deck**		55	55	10-Jun-23	09-Aug-23	14	0%	ND/2019/02 - 6D (with PH)
769	ABWF-VC3070	Fabrication of Mock Up - Timber Deck	9	9	10-Jun-23	19-Jun-23	14	0%	ND/2019/02 - 6D (with PH)
770	ABWF-VC3080	Mock Up 1st round comment by PM & review	19	19	20-Jun-23	11-Jul-23	14	0%	ND/2019/02 - 6D (with PH)
771	ABWF-VC3090	Mock Up modification, 2nd round comment by PM & approval	9	9	11-Jul-23	20-Jul-23	14	0%	ND/2019/02 - 6D (with PH)



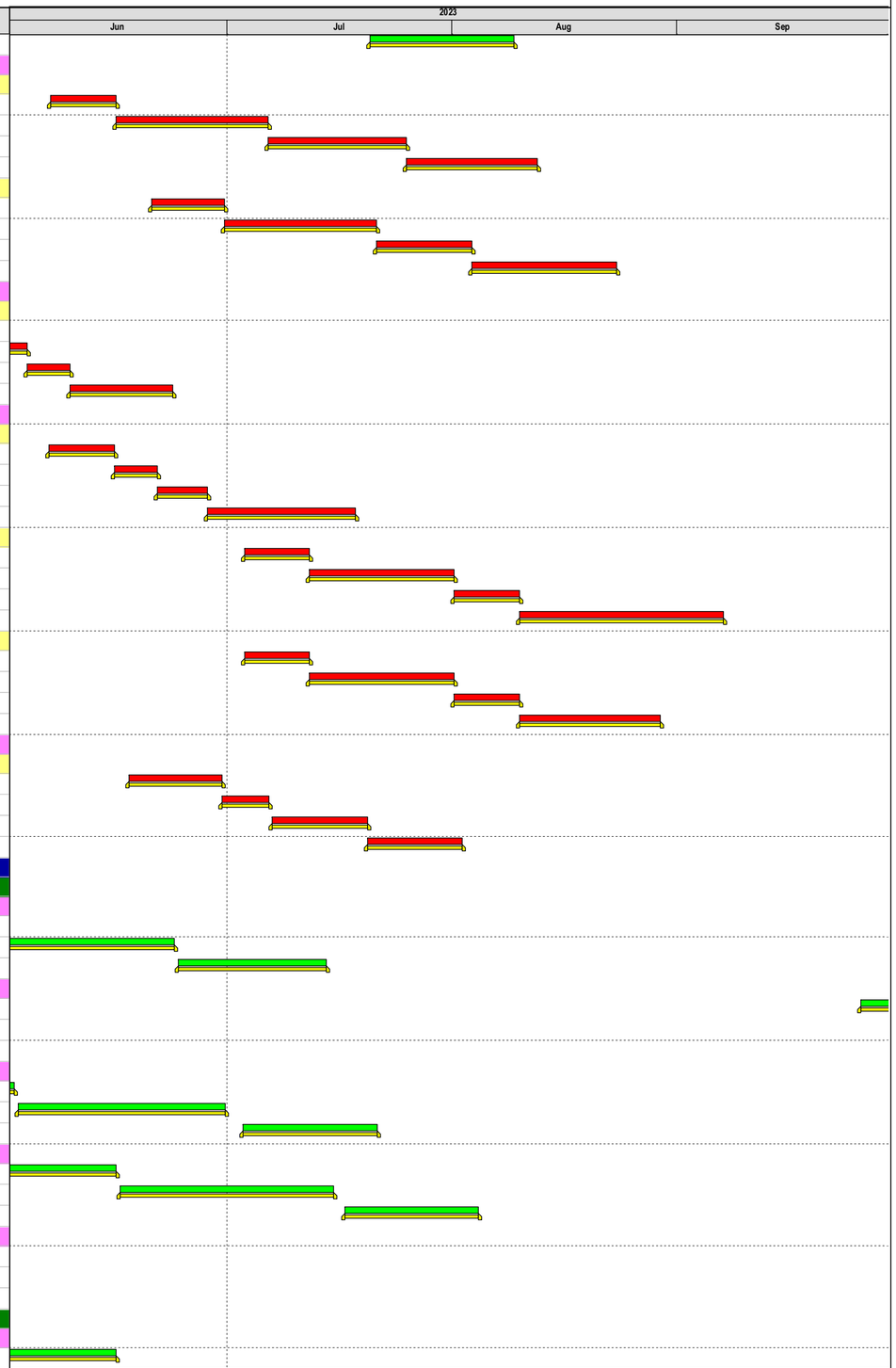
俊和－群利聯營體
CW – KL JV

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

AECOM

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

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
772	ABWF-VC3100	Material Procurement of Timber Deck	19	19	20-Jul-23	09-Aug-23	14	0%	ND/2019/02 - 6D (with PH)
773	**Package 4**		72	72	06-Jun-23	23-Aug-23	-80	0%	ND/2019/02 - 6D (with PH)
774	**Timber Door**		62	62	06-Jun-23	12-Aug-23	-70	0%	ND/2019/02 - 6D (with PH)
775	ABWF-VC1520	Fabrication of Mock Up - Timber Doors	9	9	06-Jun-23	15-Jun-23	-70	0%	ND/2019/02 - 6D (with PH)
776	ABWF-VC1530	Mock Up 1st round comment by PM & review	18	18	15-Jun-23	06-Jul-23	-70	0%	ND/2019/02 - 6D (with PH)
777	ABWF-VC1540	Mock Up modification, 2nd round comment by PM & approval	18	18	06-Jul-23	25-Jul-23	-70	0%	ND/2019/02 - 6D (with PH)
778	ABWF-VC1550	Material Procurement of Timber Doors	18	18	25-Jul-23	12-Aug-23	-70	0%	ND/2019/02 - 6D (with PH)
779	**Fitting and Fixtures**		59	59	20-Jun-23	23-Aug-23	-129	0%	ND/2019/02 - 6D (with PH)
780	ABWF-VC1640	Fabrication of Mock Up - Fitting and Fixtures	9	9	20-Jun-23	30-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
781	ABWF-VC1650	Mock Up 1st round comment by PM & review	19	19	30-Jun-23	21-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
782	ABWF-VC1660	Mock Up modification, 2nd round comment by PM & approval	12	12	21-Jul-23	03-Aug-23	-129	0%	ND/2019/02 - 6D (with PH)
783	ABWF-VC1670	Material Procurement of - Fitting and Fixtures	19	19	03-Aug-23	23-Aug-23	-129	0%	ND/2019/02 - 6D (with PH)
784	**Package 5**		33	33	17-May-23	23-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
785	**Windows / Lourves**		33	33	17-May-23	23-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
786	ABWF-VC1800	Fabrication of Mock Up - Window / Lourves	9	9	17-May-23	27-May-23	-129	0%	ND/2019/02 - 6D (with PH)
787	ABWF-VC1810	Mock Up 1st round comment by PM & review	6	6	27-May-23	03-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
788	ABWF-VC1820	Mock Up modification, 2nd round comment by PM & approval	5	5	03-Jun-23	09-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
789	ABWF-VC1830	Material Procurement of Window / Lourves	12	12	09-Jun-23	23-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
790	**Package 6**		86	86	06-Jun-23	07-Sep-23	-29	0%	ND/2019/02 - 6D (with PH)
791	**Skylight**		38	38	06-Jun-23	18-Jul-23	-165	0%	ND/2019/02 - 6D (with PH)
792	ABWF-VC1200	Fabrication of Mock Up - Skylight	9	9	06-Jun-23	15-Jun-23	-165	0%	ND/2019/02 - 6D (with PH)
793	ABWF-VC1210	Mock Up 1st round comment by PM & review	5	5	15-Jun-23	21-Jun-23	-165	0%	ND/2019/02 - 6D (with PH)
794	ABWF-VC1220	Mock Up modification, 2nd round comment by PM & approval	5	5	21-Jun-23	28-Jun-23	-165	0%	ND/2019/02 - 6D (with PH)
795	ABWF-VC1230	Material Procurement of Skylight	19	19	28-Jun-23	18-Jul-23	-165	0%	ND/2019/02 - 6D (with PH)
796	**Fall Arrest System**		63	63	03-Jul-23	07-Sep-23	-29	0%	ND/2019/02 - 6D (with PH)
797	ABWF-VC1480	Fabrication of Mock Up - Fall Arrest System	9	9	03-Jul-23	12-Jul-23	-29	0%	ND/2019/02 - 6D (with PH)
798	ABWF-VC1490	Mock Up 1st round comment by PM & review	19	19	12-Jul-23	01-Aug-23	-29	0%	ND/2019/02 - 6D (with PH)
799	ABWF-VC1500	Mock Up modification, 2nd round comment by PM & approval	9	9	01-Aug-23	10-Aug-23	-29	0%	ND/2019/02 - 6D (with PH)
800	ABWF-VC1510	Material Procurement of Fall Arrest System	27	27	10-Aug-23	07-Sep-23	-29	0%	ND/2019/02 - 6D (with PH)
801	**Timber Wall / Fences**		55	55	03-Jul-23	29-Aug-23	-148	0%	ND/2019/02 - 6D (with PH)
802	ABWF-VC1040	Fabrication of Mock Up - Timber Wall	9	9	03-Jul-23	12-Jul-23	-148	0%	ND/2019/02 - 6D (with PH)
803	ABWF-VC1050	Mock Up 1st round comment by PM & review	19	19	12-Jul-23	01-Aug-23	-148	0%	ND/2019/02 - 6D (with PH)
804	ABWF-VC1060	Mock Up modification, 2nd round comment by PM & approval	9	9	01-Aug-23	10-Aug-23	-148	0%	ND/2019/02 - 6D (with PH)
805	ABWF-VC1070	Material Procurement of Timber Wall	19	19	10-Aug-23	29-Aug-23	-148	0%	ND/2019/02 - 6D (with PH)
806	**Package 7**		41	41	17-Jun-23	02-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)
807	**Toilet Cubicle & Shower Cubicle**		41	41	17-Jun-23	02-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)
808	ABWF-VC2040	Fabrication of Mock Up - Toilet and Shower Cubicles	11	11	17-Jun-23	30-Jun-23	-118	0%	ND/2019/02 - 6D (with PH)
809	ABWF-VC2050	Mock Up 1st round comment by PM & review	5	5	30-Jun-23	06-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
810	ABWF-VC2060	Mock Up modification, 2nd round comment by PM & approval	12	12	07-Jul-23	20-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
811	ABWF-VC2070	Material Procurement of Toilet and Shower Cubicles	12	12	20-Jul-23	02-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)
812	**Sewerage Pumping Station**		336	336	02-May-23	08-May-24	31	0%	ND/2019/02 - 6D (with PH)
813	**ABWF Shop Drawings Submission**		235	235	02-May-23	13-Jan-24	67	0%	ND/2019/02 - 6D (with PH)
814	**Recycled Composite Wood**		68	68	02-May-23	14-Jul-23	132	0%	ND/2019/02 - 6D (with PH)
815	ABWF-SPS1040	Shop Drawing Submission - Recycled Composite Wood	22	22	02-May-23*	24-May-23	132	0%	ND/2019/02 - 6D (with PH)
816	ABWF-SPS1050	Recycled Composite Wood - 1st round comment by PM & review	27	27	25-May-23	23-Jun-23	132	0%	ND/2019/02 - 6D (with PH)
817	ABWF-SPS1060	Recycled Composite Wood - 2nd submission to PM & approval	19	19	24-Jun-23	14-Jul-23	132	0%	ND/2019/02 - 6D (with PH)
818	**Fences and Gates**		68	68	26-Sep-23	08-Dec-23	31	0%	ND/2019/02 - 6D (with PH)
819	ABWF-SPS1140	Shop Drawing Submission - Fences and Gates	22	22	26-Sep-23*	20-Oct-23	31	0%	ND/2019/02 - 6D (with PH)
820	ABWF-SPS1150	Fences and Gates - 1st round comment by PM & review	27	27	21-Oct-23	18-Nov-23	31	0%	ND/2019/02 - 6D (with PH)
821	ABWF-SPS1160	Fences and Gates - 2nd submission to PM & approval	19	19	20-Nov-23	08-Dec-23	31	0%	ND/2019/02 - 6D (with PH)
822	**Window and Lourves**		68	68	09-May-23	21-Jul-23	56	0%	ND/2019/02 - 6D (with PH)
823	ABWF-SPS1170	Shop Drawing Submission - Window and Lourves	22	22	09-May-23*	01-Jun-23	56	0%	ND/2019/02 - 6D (with PH)
824	ABWF-SPS1180	Shop Drawing Submission Window and Lourves - 1st round comment by PM & review	27	27	02-Jun-23	30-Jun-23	56	0%	ND/2019/02 - 6D (with PH)
825	ABWF-SPS1190	Shop Drawing Submission Window and Lourves - 2nd submission to PM & approval	19	19	03-Jul-23	21-Jul-23	56	0%	ND/2019/02 - 6D (with PH)
826	**Claddings**		68	68	23-May-23	04-Aug-23	71	0%	ND/2019/02 - 6D (with PH)
827	ABWF-SPS1200	Shop Drawing Submission - Claddings	22	22	23-May-23*	15-Jun-23	71	0%	ND/2019/02 - 6D (with PH)
828	ABWF-SPS1210	Shop Drawing Submission Claddings - 1st round comment by PM & review	27	27	16-Jun-23	15-Jul-23	71	0%	ND/2019/02 - 6D (with PH)
829	ABWF-SPS1220	Shop Drawing Submission Claddings - 2nd submission to PM & approval	19	19	17-Jul-23	04-Aug-23	71	0%	ND/2019/02 - 6D (with PH)
830	**Shutters**		68	68	01-Nov-23	13-Jan-24	67	0%	ND/2019/02 - 6D (with PH)
831	ABWF-SPS1320	Shop Drawing Submission - Shutters	22	22	01-Nov-23*	23-Nov-23	67	0%	ND/2019/02 - 6D (with PH)
832	ABWF-SPS1330	Shop Drawing Submission Shutters - 1st round comment by PM & review	27	27	24-Nov-23	21-Dec-23	67	0%	ND/2019/02 - 6D (with PH)
833	ABWF-SPS1340	Shop Drawing Submission Shutters - 2nd submission to PM & approval	19	19	22-Dec-23	13-Jan-24	67	0%	ND/2019/02 - 6D (with PH)
834	**ABWF Material Submission & Procurement**		80	80	10-May-23	04-Aug-23	214	0%	ND/2019/02 - 6D (with PH)
835	**Recycled Composite Wood**		68	68	23-May-23	04-Aug-23	112	0%	ND/2019/02 - 6D (with PH)
836	ABWF-SPS1110	Material Submission - Recycled Composite Wood	22	22	23-May-23*	15-Jun-23	112	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

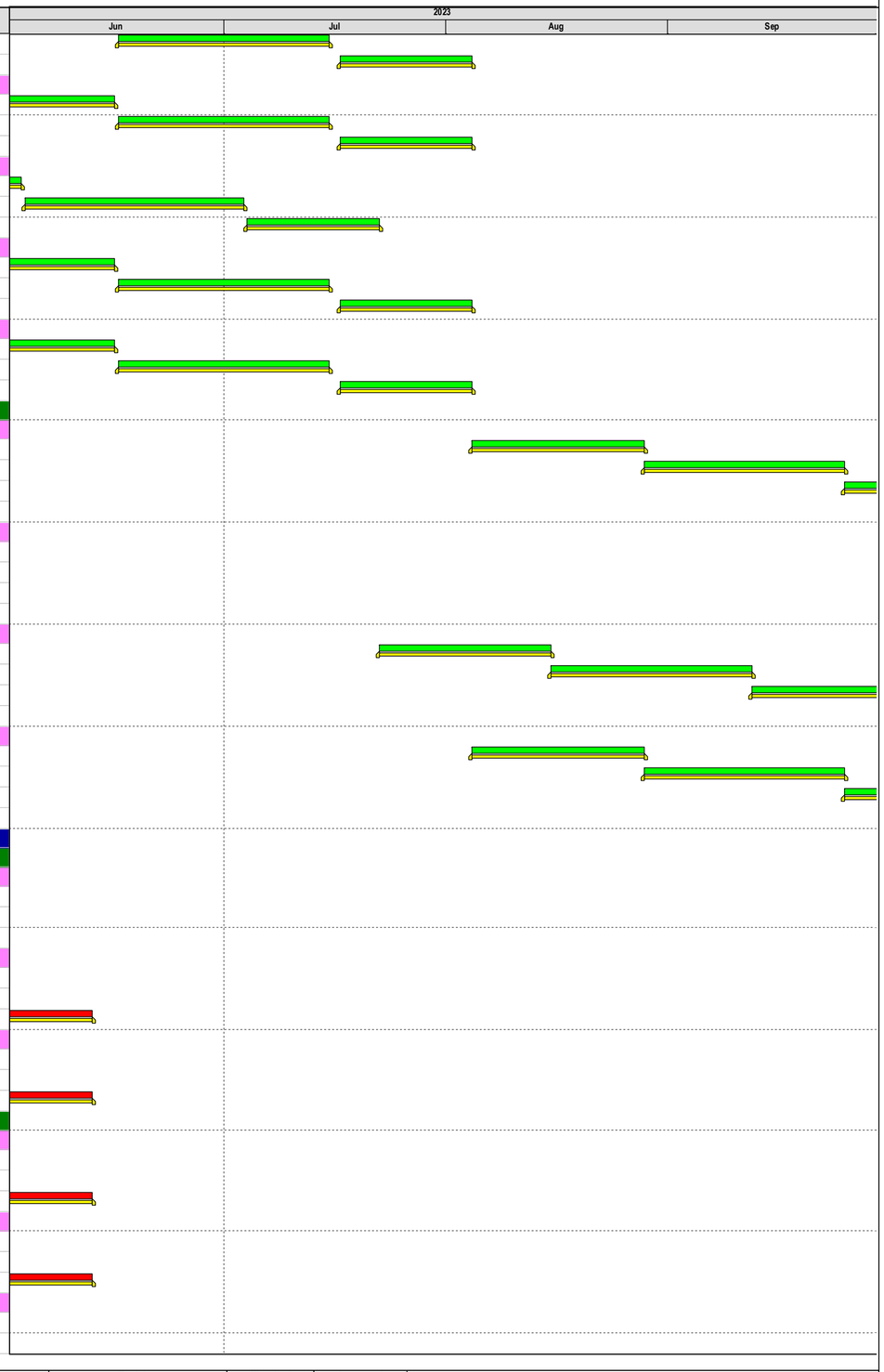
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27

Programme Forecast (Jun-Jul-Aug-Sep 2023)

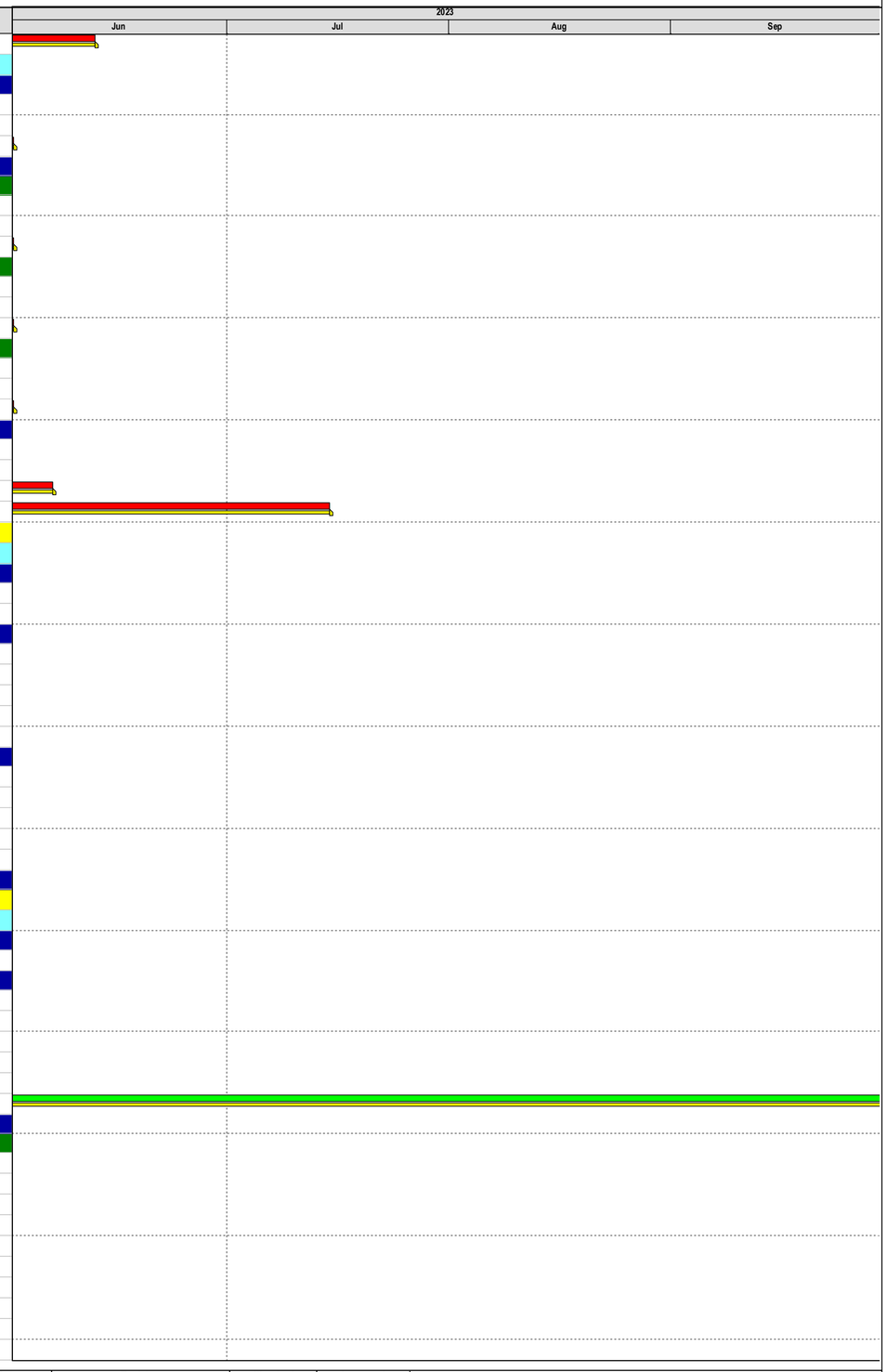
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
837	ABWF-SPS1120	Material Submission - Recycled Composite Wood - 1st round comment by PM & review	27	27	16-Jun-23	15-Jul-23	112	0%	ND/2019/02 - 6D (with PH)
838	ABWF-SPS1130	Material Submission - Recycled Composite Wood - 2nd submission to PM & approval	19	19	17-Jul-23	04-Aug-23	112	0%	ND/2019/02 - 6D (with PH)
839	**Fences and Gates**		68	68	23-May-23	04-Aug-23	148	0%	ND/2019/02 - 6D (with PH)
840	ABWF-SPS1230	Material Submission - Fences and Gates	22	22	23-May-23*	15-Jun-23	148	0%	ND/2019/02 - 6D (with PH)
841	ABWF-SPS1240	Material Submission - Fences and Gates - 1st round comment by PM & review	27	27	16-Jun-23	15-Jul-23	148	0%	ND/2019/02 - 6D (with PH)
842	ABWF-SPS1250	Material Submission - Fences and Gates - 2nd submission to PM & approval	19	19	17-Jul-23	04-Aug-23	148	0%	ND/2019/02 - 6D (with PH)
843	**Window and Lourves**		68	68	10-May-23	22-Jul-23	55	0%	ND/2019/02 - 6D (with PH)
844	ABWF-SPS1260	Material Submission - Windows and Lourves	22	22	10-May-23*	02-Jun-23	55	0%	ND/2019/02 - 6D (with PH)
845	ABWF-SPS1270	Material Submission - Windows and Lourves - 1st round comment by PM & review	27	27	03-Jun-23	03-Jul-23	55	0%	ND/2019/02 - 6D (with PH)
846	ABWF-SPS1280	Material Submission - Windows and Lourves - 2nd submission to PM & approval	19	19	04-Jul-23	22-Jul-23	55	0%	ND/2019/02 - 6D (with PH)
847	**Claddings**		68	68	23-May-23	04-Aug-23	71	0%	ND/2019/02 - 6D (with PH)
848	ABWF-SPS1290	Material Submission - Claddings	22	22	23-May-23*	15-Jun-23	71	0%	ND/2019/02 - 6D (with PH)
849	ABWF-SPS1300	Material Submission - Claddings - 1st round comment by PM & review	27	27	16-Jun-23	15-Jul-23	71	0%	ND/2019/02 - 6D (with PH)
850	ABWF-SPS1310	Material Submission - Claddings - 2nd submission to PM & approval	19	19	17-Jul-23	04-Aug-23	71	0%	ND/2019/02 - 6D (with PH)
851	**Shutters**		68	68	23-May-23	04-Aug-23	214	0%	ND/2019/02 - 6D (with PH)
852	ABWF-SPS1350	Material Submission - FRR Shutters	22	22	23-May-23*	15-Jun-23	214	0%	ND/2019/02 - 6D (with PH)
853	ABWF-SPS1360	Material Submission - FRR Shutters - 1st round comment by PM & review	27	27	16-Jun-23	15-Jul-23	214	0%	ND/2019/02 - 6D (with PH)
854	ABWF-SPS1370	Material Submission - FRR Shutters - 2nd submission to PM & approval	19	19	17-Jul-23	04-Aug-23	214	0%	ND/2019/02 - 6D (with PH)
855	**Mock Up**		260	260	22-Jul-23	08-May-24	31	0%	ND/2019/02 - 6D (with PH)
856	**Recycled Composite Wood**		132	132	04-Aug-23	27-Dec-23	112	0%	ND/2019/02 - 6D (with PH)
857	ABWF-SPS1070	Fabrication of Mock Up - Recycled Composite Wood	22	22	04-Aug-23	28-Aug-23	112	0%	ND/2019/02 - 6D (with PH)
858	ABWF-SPS1080	Mock Up 1st round comment by PM & review	27	27	28-Aug-23	25-Sep-23	112	0%	ND/2019/02 - 6D (with PH)
859	ABWF-SPS1090	Mock Up modification, 2nd round comment by PM & approval	19	19	25-Sep-23	17-Oct-23	112	0%	ND/2019/02 - 6D (with PH)
860	ABWF-SPS1100	Material Procurement of Recycled Composite Wood	64	64	17-Oct-23	27-Dec-23	112	0%	ND/2019/02 - 6D (with PH)
861	**Fences and Gates**		132	132	08-Dec-23	08-May-24	31	0%	ND/2019/02 - 6D (with PH)
862	ABWF-SPS1380	Fabrication of Mock Up - Fences and Gates	22	22	08-Dec-23	04-Jan-24	31	0%	ND/2019/02 - 6D (with PH)
863	ABWF-SPS1390	Mock Up 1st round comment by PM & review	27	27	04-Jan-24	01-Feb-24	31	0%	ND/2019/02 - 6D (with PH)
864	ABWF-SPS1400	Mock Up modification, 2nd round comment by PM & approval	19	19	01-Feb-24	24-Feb-24	31	0%	ND/2019/02 - 6D (with PH)
865	ABWF-SPS1410	Material Procurement of Fences and Gates	64	64	24-Feb-24	08-May-24	31	0%	ND/2019/02 - 6D (with PH)
866	**Window and Lourves**		132	132	22-Jul-23	12-Dec-23	55	0%	ND/2019/02 - 6D (with PH)
867	ABWF-SPS1420	Fabrication of Mock Up - Window and Lourvres	22	22	22-Jul-23	15-Aug-23	55	0%	ND/2019/02 - 6D (with PH)
868	ABWF-SPS1430	Mock Up 1st round comment by PM & review	27	27	15-Aug-23	12-Sep-23	55	0%	ND/2019/02 - 6D (with PH)
869	ABWF-SPS1440	Mock Up modification, 2nd round comment by PM & approval	19	19	12-Sep-23	04-Oct-23	55	0%	ND/2019/02 - 6D (with PH)
870	ABWF-SPS1450	Material Procurement of Window and Lourvres	64	64	04-Oct-23	12-Dec-23	55	0%	ND/2019/02 - 6D (with PH)
871	**Claddings**		132	132	04-Aug-23	27-Dec-23	71	0%	ND/2019/02 - 6D (with PH)
872	ABWF-SPS1460	Fabrication of Mock Up - Claddings	22	22	04-Aug-23	28-Aug-23	71	0%	ND/2019/02 - 6D (with PH)
873	ABWF-SPS1470	Mock Up 1st round comment by PM & review	27	27	28-Aug-23	25-Sep-23	71	0%	ND/2019/02 - 6D (with PH)
874	ABWF-SPS1480	Mock Up modification, 2nd round comment by PM & approval	19	19	25-Sep-23	17-Oct-23	71	0%	ND/2019/02 - 6D (with PH)
875	ABWF-SPS1490	Material Procurement of Claddings	64	64	17-Oct-23	27-Dec-23	71	0%	ND/2019/02 - 6D (with PH)
876	**Footbridge FK2**		92	39	28-Feb-23 A	12-Jun-23	-134	58.09%	ND/2019/02 - 6D (with PH)
877	**ABWF Shop Drawings Submission**		92	39	28-Feb-23 A	12-Jun-23	-134	58.09%	ND/2019/02 - 6D (with PH)
878	**Footbridge Deck Paving**		80	26	28-Feb-23 A	30-May-23	-161	67.18%	ND/2019/02 - 6D (with PH)
879	ABWF-FK2-1000	Shop Drawing Submission - Footbridge Deck Paving	18	0	28-Feb-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
880	ABWF-FK2-1010	Shop Drawing Submission - Footbridge Deck Paving - 1st round comment by PM & review	19	7	18-Mar-23 A	09-May-23	-161	60.12%	ND/2019/02 - 6D (with PH)
881	ABWF-FK2-1020	Shop Drawing Submission - Footbridge Deck Paving - 2nd submission to PM & approval	19	19	09-May-23	30-May-23	-161	0%	ND/2019/02 - 6D (with PH)
882	**Handrail**		92	39	28-Feb-23 A	12-Jun-23	-154	58.09%	ND/2019/02 - 6D (with PH)
883	ABWF-FK2-1060	Shop Drawing Submission - Handrail	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
884	ABWF-FK2-1070	Shop Drawing Submission - Handrail - 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-154	25.42%	ND/2019/02 - 6D (with PH)
885	ABWF-FK2-1080	Shop Drawing Submission - Handrail - 2nd submission to PM & approval	19	19	22-May-23	12-Jun-23	-154	0%	ND/2019/02 - 6D (with PH)
886	**Ramp Staircase Finishes**		92	39	28-Feb-23 A	12-Jun-23	-134	58.09%	ND/2019/02 - 6D (with PH)
887	ABWF-FK2-1090	Shop Drawing Submission - Ramp Staircase Finishes	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
888	ABWF-FK2-1100	Shop Drawing Submission - Ramp Staircase Finishes - 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-134	25.42%	ND/2019/02 - 6D (with PH)
889	ABWF-FK2-1110	Shop Drawing Submission - Ramp Staircase Finishes - 2nd submission to PM & approval	19	19	22-May-23	12-Jun-23	-134	0%	ND/2019/02 - 6D (with PH)
890	**ABWF Material Submission & Procurement**		92	39	28-Feb-23 A	12-Jun-23	-134	58.09%	ND/2019/02 - 6D (with PH)
891	**Footbridge Deck Paving**		92	39	28-Feb-23 A	12-Jun-23	-174	58.09%	ND/2019/02 - 6D (with PH)
892	ABWF-FK2-1030	Material Submission - Footbridge Deck Paving	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
893	ABWF-FK2-1040	Material Submission - Footbridge Deck Paving - 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-174	25.42%	ND/2019/02 - 6D (with PH)
894	ABWF-FK2-1050	Material Submission - Footbridge Deck Paving - 2nd submission to PM & approval	19	19	22-May-23	12-Jun-23	-174	0%	ND/2019/02 - 6D (with PH)
895	**Handrail**		92	39	28-Feb-23 A	12-Jun-23	-154	58.09%	ND/2019/02 - 6D (with PH)
896	ABWF-FK2-1120	Material Submission - Handrail	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
897	ABWF-FK2-1130	Material Submission - Handrail - 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-154	25.42%	ND/2019/02 - 6D (with PH)
898	ABWF-FK2-1140	Material Submission - Handrail - 2nd submission to PM & approval	19	19	22-May-23	12-Jun-23	-154	0%	ND/2019/02 - 6D (with PH)
899	**Ramp Staircase Finishes**		92	39	28-Feb-23 A	12-Jun-23	-134	58.09%	ND/2019/02 - 6D (with PH)
900	ABWF-FK2-1150	Material Submission - Ramp Staircase Finishes	22	0	28-Feb-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
901	ABWF-FK2-1160	Material Submission - Ramp Staircase Finishes - 1st round comment by PM & review	27	20	23-Mar-23 A	22-May-23	-134	25.42%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
902	ABWF-FK2-1170	Material Submission - Ramp Staircase Finishes - 2nd submission to PM & approval	19	19	22-May-23	12-Jun-23	-134	0%	ND/2019/02 - 6D (with PH)
903	**Landscape Works Submission**		121	68	28-Feb-23 A	15-Jul-23	-119	44.05%	ND/2019/02 - 6D (with PH)
904	**Landscape Method Statement Submission**		81	28	28-Feb-23 A	01-Jun-23	-79	65.71%	ND/2019/02 - 6D (with PH)
905	LA-SPS1090	Method Statement of Planting and Soil Mixing - 1st submission to Project Manager	25	0	28-Feb-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
906	LA-SPS1100	Method Statement of Planting and Soil Mixing - 1st submission to PM & review	16	12	27-Mar-23 A	13-May-23	-79	25.69%	ND/2019/02 - 6D (with PH)
907	LA-SPS1110	Method Statement of Planting and Soil Mixing - 2nd submission to PM & approval	16	16	13-May-23	01-Jun-23	-79	0%	ND/2019/02 - 6D (with PH)
908	**Landscape Material Submission & Test Report**		81	28	28-Feb-23 A	01-Jun-23	-79	65.71%	ND/2019/02 - 6D (with PH)
909	**Plant Specimen & Origin**		81	28	28-Feb-23 A	01-Jun-23	-79	65.71%	ND/2019/02 - 6D (with PH)
910	LA-SPS1000	Plant Nursery and Specimen Photos - 1st submission to Project Manager	25	0	28-Feb-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
911	LA-SPS1010	Plant Nursery and Specimen Photos - 1st submission to PM & review	16	12	27-Mar-23 A	13-May-23	-79	25.69%	ND/2019/02 - 6D (with PH)
912	LA-SPS1020	Plant Nursery and Specimen Photos - 2nd submission to PM & approval	16	16	13-May-23	01-Jun-23	-79	0%	ND/2019/02 - 6D (with PH)
913	**Soil Mix**		81	28	28-Feb-23 A	01-Jun-23	-79	65.71%	ND/2019/02 - 6D (with PH)
914	LA-SPS1030	Soil Mix Test Report - 1st submission to Project Manager	25	0	28-Feb-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
915	LA-SPS1040	Soil Mix Test Report - 1st submission to PM & review	16	12	27-Mar-23 A	13-May-23	-79	25.69%	ND/2019/02 - 6D (with PH)
916	LA-SPS1050	Soil Mix Test Report - 2nd submission to PM & approval	16	16	13-May-23	01-Jun-23	-79	0%	ND/2019/02 - 6D (with PH)
917	**Soil Conditioners**		81	28	28-Feb-23 A	01-Jun-23	-79	65.71%	ND/2019/02 - 6D (with PH)
918	LA-SPS1060	Soil Conditioners Test Report & Samples - 1st submission to Project Manager	25	0	28-Feb-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
919	LA-SPS1070	Soil Conditioners Test Report & Samples - 1st submission to PM & review	16	12	27-Mar-23 A	13-May-23	-79	25.69%	ND/2019/02 - 6D (with PH)
920	LA-SPS1080	Soil Conditioners Test Report & Samples - 2nd submission to PM & approval	16	16	13-May-23	01-Jun-23	-79	0%	ND/2019/02 - 6D (with PH)
921	**Landscape Design Submission**		121	68	28-Feb-23 A	15-Jul-23	-191	44.05%	ND/2019/02 - 6D (with PH)
922	LA-SPS1160	Landscape Design Submission for FK2 - 1st submission to Project Manager	25	0	28-Feb-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
923	LA-SPS1165	Landscape Design Submission for FK2 - 1st submission to PM & review	19	15	27-Mar-23 A	17-May-23	-191	22.02%	ND/2019/02 - 6D (with PH)
924	LA-SPS1170	Landscape Design Submission for FK2 - 2nd submission to PM & approval	19	19	17-May-23	06-Jun-23	-157	0%	ND/2019/02 - 6D (with PH)
925	LA-SPS1180	Landscape Design Submission for FK2 - Submission to Govt Dept for approval	53	53	17-May-23	15-Jul-23	-191	0%	ND/2019/02 - 6D (with PH)
926	**Works in Section 1**		792	0	26-Jun-20 A	30-Nov-22 A		100%	
927	**Portion 1 - Road & Drains**		792	0	26-Jun-20 A	30-Nov-22 A		100%	
928	**Site Possession**		170	0	03-Aug-20 A	16-Apr-21 A		100%	ND/2019/02 - 7D (without PH)
929	P1-1000	Site Possession - Portion 1	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
930	P1-1005	Site Possession - Additional Working Area from C1 (KT2003)	0	0	16-Apr-21 A			100%	ND/2019/02 - 7D (without PH)
931	**Pre-construction works**		713	0	26-Jun-20 A	30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
932	P1-1010	Utilities Detection in Portion 1	18	0	26-Jun-20 A	20-Jul-20 A		100%	ND/2019/02 - 6D (with PH)
933	P1-1020	Circulation & Approval of TTAs	12	0	03-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
934	P1-1050	Environmental GI & Submission of Lab Report (EGI-9G-01)	19	0	07-Jan-21 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
935	P1-1580	Removal of Existing Stormwater Drains / channels next to Dill Corner Garden	16	0	03-Jan-22 A	20-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
936	P1-1590	Completion of Works at Portion 1	0	0	30-Nov-22 A	30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
937	**CE-026 Extension of Cycle Track outside Dills Corner Garden**		31	0	23-Jun-21 A	30-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
938	P1-2000	Tree Felling Works	7	0	23-Jun-21 A	29-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
939	P1-2020	Structural works for sand trap	14	0	20-Aug-21 A	03-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
940	P1-2030	Installation of Steel Frame	4	0	20-Sep-21 A	23-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
941	P1-2040	Laying Anti Skid Layer of Carriageway	7	0	24-Sep-21 A	30-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
942	P1-2050	RA Notification of Carriageway open to public	30	0	01-Oct-21 A	30-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
943	**Utilities and Signage Works**		0	0			0	0%	
944	**Works in Section 2**		2018	905	14-Apr-20 A	22-Oct-25	439	55.16%	
945	**Portion 2 - Road & Drains**		1578	576	21-Jul-20 A	27-Nov-24	768	63.5%	
946	**Site Possession**		0	0	03-Aug-20 A	03-Aug-20 A		0%	ND/2019/02 - 7D (without PH)
947	P2-1000	Site Possession - Portion 2	0	0	03-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
948	**Pre-construction works**		1327	450	21-Jul-20 A	09-Sep-24	99	66.06%	ND/2019/02 - 6D (with PH)
949	P2-1010	Utilities Detection in Portion 2	27	0	21-Jul-20 A	24-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
950	P2-1020	Circulation & Approval of TTAs	19	0	01-Aug-20 A	31-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
951	P2-1030	Inspection Pit	36	0	30-Sep-20 A	13-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
952	P2-1050	Environmental GI & Submission of Lab report	19	0	21-Sep-20 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
953	P2-1060	Borehole (2nos.), Submission & Approval of GI Report	66	0	07-Jan-21 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
954	P2-1070	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	99	66.06%	ND/2019/02 - 6D (with PH)
955	**ELS**		789	42	15-Apr-21 A	13-Jun-23	168	94.66%	
956	**Launching shaft for SMH_KT6003A and FMH_KT1.26A**		156	0	30-Apr-21 A	23-Nov-21 A		100%	
957	P2-8000	Preparation of Works	12	0	22-May-21 A	19-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
958	P2-8005	UU Detection	4	0	30-Apr-21 A	03-May-21 A		100%	ND/2019/02 - 6D (with PH)
959	P2-8010	Inspection Pit	3	0	29-Jun-21 A	30-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
960	P2-8015	Handover the Works Area from C1	0	0	21-May-21 A			100%	ND/2019/02 - 6D (with PH)
961	P2-8020	Coordination with UU owner to arrange diversion / abandon	6	0	30-Jun-21 A	10-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
962	P2-8025	Dismantle of Existing Noise Barriers & Hoarding (Instructed by PM)	6	0	21-Jun-21 A	26-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
963	P2-8030	Black Rainstorm	1	0	28-Jun-21 A	28-Jun-21 A		100%	ND/2019/02 - 7D (without PH)
964	P2-8035	Sheetpiling for launching shaft at SMH_KT6003A	7	0	12-Jul-21 A	17-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
965	P2-8040	Coordination with ND/2019/01 Contractor to divert the Rising Main	19	0	19-Jul-21 A	12-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
966	P2-8045	Remaining Sheetpiling for launching shaft at SMH_KT6003A	20	0	12-Aug-21 A	14-Aug-21 A		100%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

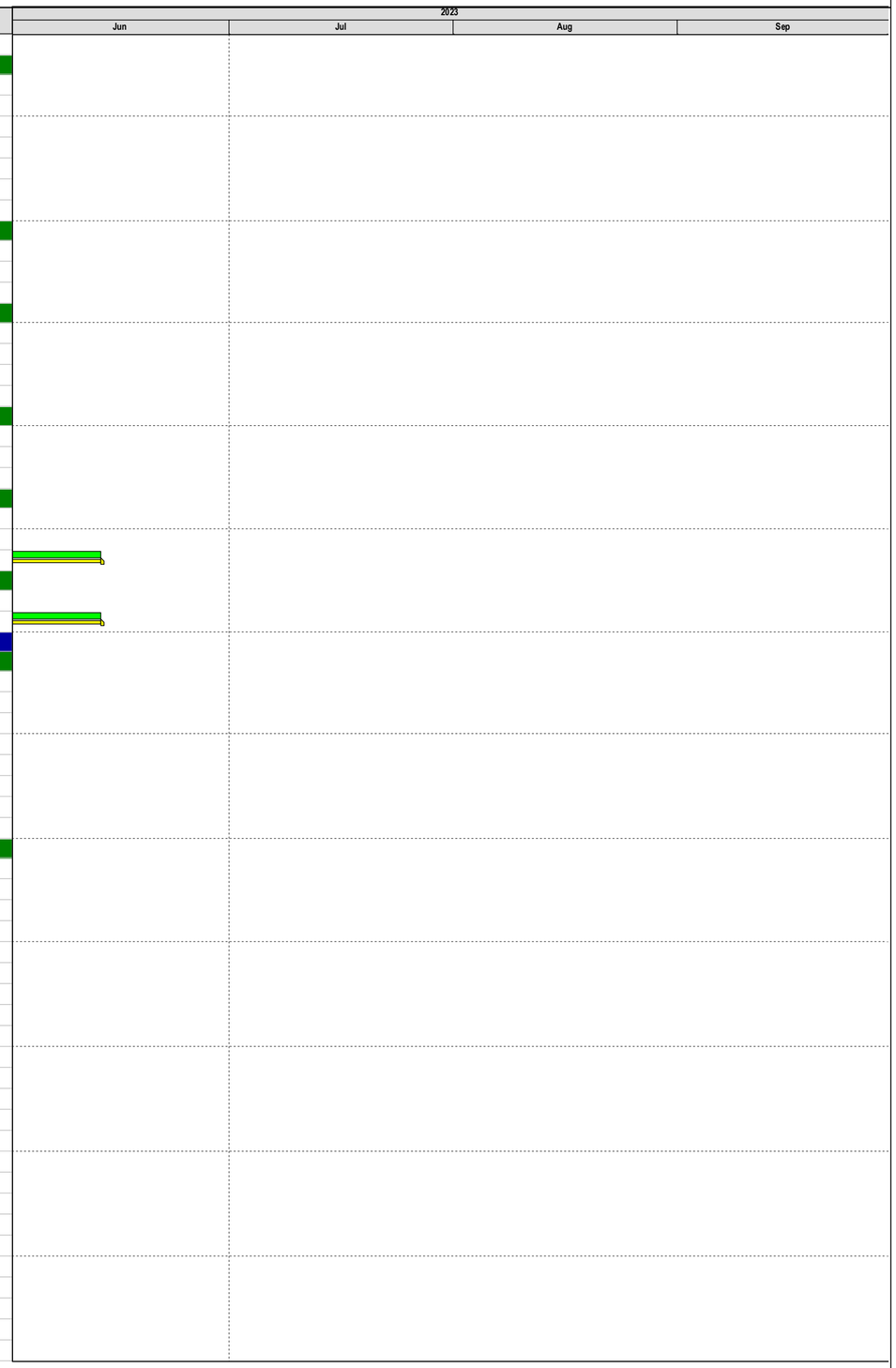
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 15 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

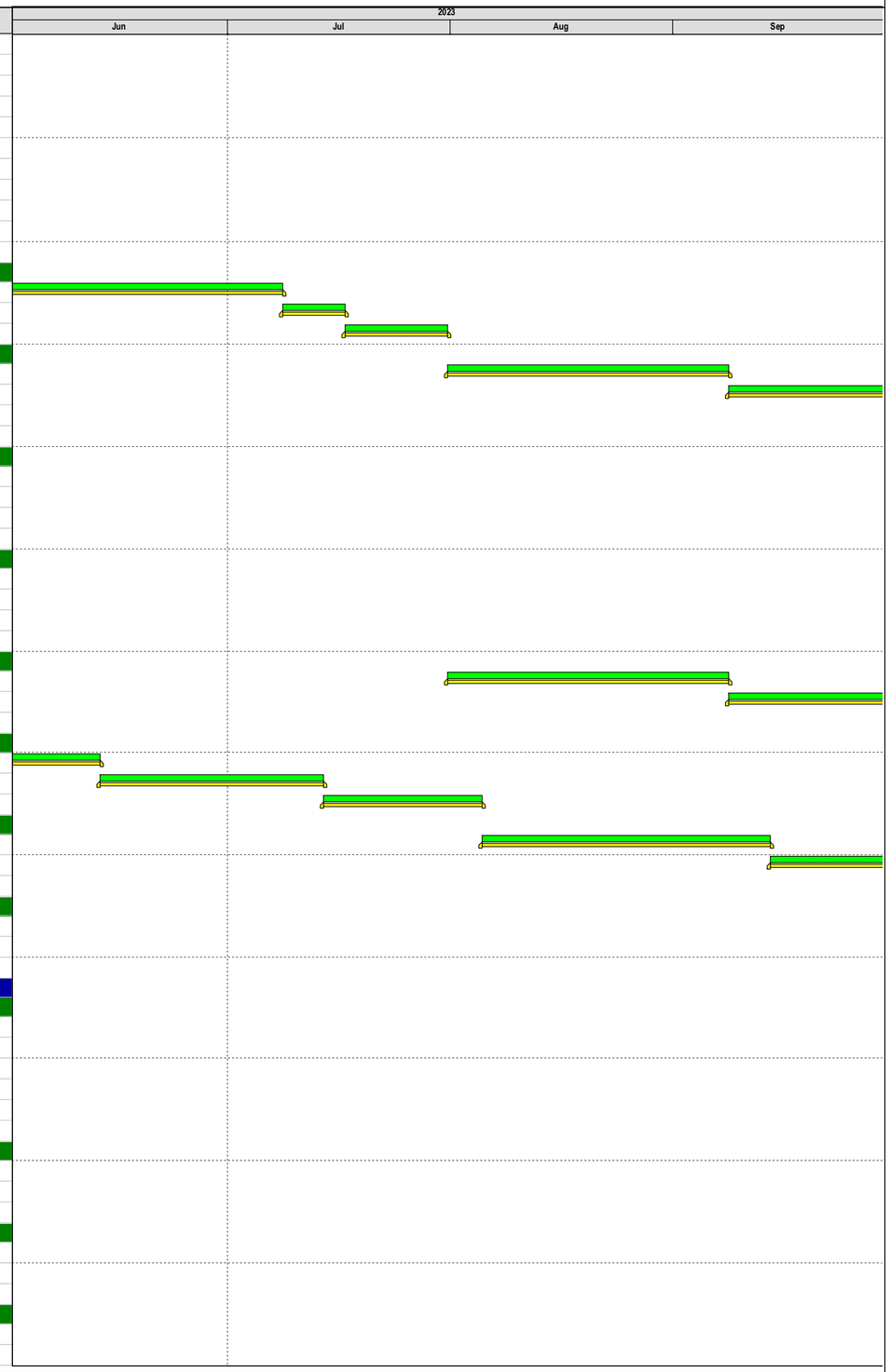
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
967	P2-8050	Excavation for Launching Shaft at SMH_KT6003A	78	0	16-Aug-21 A	23-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
968	**Combined Shaft for SMH_KT2003 and FMH_KT1.23**		157	0	15-Apr-21 A	06-Dec-21 A		100%	
969	P2-8055	Handover the Works Area from C1	0	0	16-Apr-21 A			100%	ND/2019/02 - 7D (without PH)
970	P2-8060	Set Up TTA at Castle Peak Road Footpath	3	0	20-May-21 A	22-May-21 A		100%	ND/2019/02 - 6D (with PH)
971	P2-8065	Preparation Works	13	0	15-Apr-21 A	29-Apr-21 A		100%	ND/2019/02 - 6D (with PH)
972	P2-8070	UU Detection	4	0	30-Apr-21 A	03-May-21 A		100%	ND/2019/02 - 6D (with PH)
973	P2-8075	Inspection Pit Excavation	5	0	04-May-21 A	10-May-21 A		100%	ND/2019/02 - 6D (with PH)
974	P2-8080	Coordination with UU owner for uncharted concrete structure	20	0	10-May-21 A	31-May-21 A		100%	ND/2019/02 - 6D (with PH)
975	P2-8085	ELS for Receiving Pit	54	0	05-Jun-21 A	06-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
976	**Launching shaft at FMH_KT1.30A**		105	0	01-Sep-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
977	P2-3140	Set up works area for tree felling & ELS works	1	0	01-Sep-22 A	01-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
978	P2-3150	ELS for launching shaft at FMH_KT1.30A	77	0	21-Sep-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
979	P2-3160	Install decking at KT1.30A	1	0	23-Dec-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
980	**Receiving shaft at FMH_KT1.32A**		122	24	10-Jan-23 A	27-May-23	26	80.29%	ND/2019/02 - 6D (with PH)
981	P2-7185	Dismantling of existing planter and diversion of utilities with laying of temp pedestrian walkway	29	0	10-Jan-23 A	15-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
982	P2-7190	Set up TTA at Castle Peak Road Carriageway (westbound)	25	0	16-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
983	P2-7200	ELS for inspection shaft at FMH_KT1.32A	38	23	15-Mar-23 A	25-May-23	26	39.47%	ND/2019/02 - 6D (with PH)
984	P2-7210	Install decking at KT1.32A	1	1	25-May-23	27-May-23	26	0%	ND/2019/02 - 6D (with PH)
985	**Combined shaft for SMH_KT6005A & FMH_KT1.33A**		43	0	01-Feb-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
986	P2-4000	Set up TTA at Castle Peak Road Footpath	1	0	01-Feb-23 A	01-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
987	P2-4005	ELS of combined pit for SMH_KT6005A & FMH_KT1.33A	38	0	02-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
988	P2-4010	Install decking at KT1.33A & release TTA	1	0	16-Mar-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
989	**Combined shaft for SMH_KT6003B & FMH_KT1.27A**		39	39	02-May-23	13-Jun-23	26	0%	ND/2019/02 - 6D (with PH)
990	P2-8225	Site Possession (Assume 03-Apr-2023)	0	0		02-May-23*	-21	0%	ND/2019/02 - 6D (with PH)
991	P2-8230	Set up TTA at Castle Peak Road Carriageway	1	1	02-May-23	02-May-23	26	0%	ND/2019/02 - 6D (with PH)
992	P2-8235	ELS of combined pit for SMH_KT6003B & FMH_KT1.27A	38	38	02-May-23	13-Jun-23	26	0%	ND/2019/02 - 6D (with PH)
993	**Combined shaft for SMH_KT6004A & FMH_KT1.29A**		39	39	02-May-23	13-Jun-23	73	0%	ND/2019/02 - 6D (with PH)
994	P2-3000	Set up TTA at Castle Peak Road Carriageway	1	1	02-May-23	02-May-23	26	0%	ND/2019/02 - 6D (with PH)
995	P2-3010	ELS of combined pit for SMH_KT6004A & FMH_KT1.29A	38	38	02-May-23	13-Jun-23	73	0%	ND/2019/02 - 6D (with PH)
996	**Pipe Jacking**		895	432	24-Nov-21 A	21-Aug-24	26	51.74%	ND/2019/02 - 6D (with PH)
997	**(KT1.26A to KT1.23) (IL: 5.1-5.7mPD) 800mm dia**		91	0	24-Nov-21 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
998	P2-8090	Set up Pipe jacking TBM (For DN800 Pipe)	19	0	24-Nov-21 A	21-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
999	P2-8095	Pipe Jacking from FMH_KT1.26A to FMH_KT1.23 (DN800 Pipe) (110m ~3m/day) (94.2m completed)	27	0	22-Dec-21 A	27-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1000	P2-8100	TBM reach the sheet pile at receiving pit	2	0	28-Jan-22 A	29-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1001	P2-8105	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	0	04-Feb-22 A	09-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1002	P2-8110	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air	2	0	10-Feb-22 A	11-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1003	P2-8115	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	10	0	12-Feb-22 A	19-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1004	P2-8120	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	0	23-Feb-22 A	26-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1005	P2-8125	Demolish & removal the hoisting frame at Jacking Pit	3	0	25-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1006	**(KT6003A to KT2003) (IL: 6.0-6.4mPD) 2100mm dia**		195	0	18-Feb-22 A	21-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1007	P2-8130	Relocate working platform	1	0	01-Mar-22 A	01-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1008	P2-8135	Dismantle remaining waling	1	0	02-Mar-22 A	02-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1009	P2-8140	Handover the site to VTEC	1	0	03-Mar-22 A	03-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1010	P2-8145	Pipe Jacking set up on hold due to VTEC staffs suffer COVID-19	20	0	18-Feb-22 A	12-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1011	P2-8150	Setting up 5 tonne hosting frame	2	0	14-Mar-22 A	16-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1012	P2-8155	Pre-treatment grouting works	3	0	17-Mar-22 A	22-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1013	P2-8157	Inclement Weather on 23-Mar-2022	1	0	23-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1014	P2-8160	Setup guide rail & entrance ring	3	0	24-Mar-22 A	26-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1015	P2-8160-1	Inclement Weather on 28-Mar-2022	1	0	28-Mar-22 A	28-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1016	P2-8160-2	Con't Setup guide rail & entrance ring	3	0	29-Mar-22 A	31-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1017	P2-8165	Setup working platform	2	0	01-Apr-22 A	04-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1018	P2-8170	Setup Thrust Wall	6	0	01-Apr-22 A	07-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1019	P2-8175	Install Slurry Pipe and Power Cable	7	0	07-Apr-22 A	08-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1020	P2-8180	Dismantle 5 tonnes hoisting frame	1	0	08-Apr-22 A	09-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1021	P2-8183	Strut Modification of Jacking Pit to suit TBM Set Up	6	0	28-Apr-22 A	05-May-22 A		100%	ND/2019/02 - 6D (with PH)
1022	P2-8185	Target date of deliver 2.1m dia TBM to site	0	0		18-May-22 A		100%	ND/2019/02 - 6D (with PH)
1023	P2-8190	Set Up Pipe Jacking TBM	7	0	19-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
1024	P2-8190-1	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1025	P2-8190-2	Con't Set Up Pipe Jacking TBM	19	0	28-May-22 A	20-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1026	P2-8195	Pipe Jacking from KT6003A to KT2003 (2.1 dia) (115m ~3m/day)	38	0	21-Jun-22 A	27-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1027	P2-8200	Pre-treatment grouting at receiving pit, set up exit ring and form opening	5	0	29-Jul-22 A	03-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1028	P2-8200.1	Inclement Weather on 4 to 5-Aug-2022	2	0	04-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1029	P2-8200.2	Pre-treatment grouting at receiving pit, set up exit ring and form opening	3	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1030	P2-8200.3	Inclement Weather on 9 to 10-Aug-2022	2	0	09-Aug-22 A	10-Aug-22 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1031	P2-8200.4	Inclement Weather on 12-Aug-2022	1	0	12-Aug-22 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1032	P2-8375	Lift Out TBM at receiving pit	1	0	13-Aug-22 A	13-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1033	P2-8385	Pushing the remaining pipeline to designated location at receiving pit	1	0	15-Aug-22 A	15-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1034	P2-8395	Demolish and remove slurry pipe, power cable, lubrication pipe	1	0	16-Aug-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1035	P2-8395.1	Inclement Weather on 17-Aug-2022	1	0	17-Aug-22 A	17-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1036	P2-8395.2	Demolish and remove slurry pipe, power cable, lubrication pipe	6	0	18-Aug-22 A	24-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1037	P2-8395.3	Inclement Weather on 25-Aug-2022	1	0	25-Aug-22 A	25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1038	P2-8405	Lining Welding works	13	0	26-Aug-22 A	09-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1039	P2-8415	Air Test	2	0	10-Sep-22 A	12-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1040	P2-8425	Demolish and removal of Guide Rail and Working Platform, breaking thrust wall	5	0	13-Sep-22 A	17-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1041	P2-8435	Cleaning of Launching pit	3	0	19-Sep-22 A	21-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1042	**(KT1.30A to KT1.32A) (IL:3.8-3.,6mPD) 800mm dia**		59	59	27-May-23	31-Jul-23	26	0%	ND/2019/02 - 6D (with PH)
1043	P2-3170	Set up and assembly of TBM (0.8m dia.)	38	38	27-May-23	08-Jul-23	26	0%	ND/2019/02 - 6D (with PH)
1044	P2-3180	Pipe Jacking from FMH_KT1.30A to FMH_KT1.32A (20m, 3m/day)	7	7	08-Jul-23	17-Jul-23	26	0%	ND/2019/02 - 6D (with PH)
1045	P2-3185	Removal of TBM (0.8m dia.) from FMH_KT1.32A	14	14	17-Jul-23	31-Jul-23	26	0%	ND/2019/02 - 6D (with PH)
1046	**(KT1.29A to KT1.27A) (IL: 4.1-4.6mPD) 800mm dia**		81	81	31-Jul-23	27-Oct-23	29	0%	ND/2019/02 - 6D (with PH)
1047	P2-8205	Set up and Assembly of TBM (0.8m dia.)	38	38	31-Jul-23	08-Sep-23	29	0%	ND/2019/02 - 6D (with PH)
1048	P2-8210	Pipe Jacking from FMH_KT1.29A to FMH_KT1.27A (85m, 3m/day)	28	28	08-Sep-23	11-Oct-23	29	0%	ND/2019/02 - 6D (with PH)
1049	P2-8215	Dismantling TBM at KT1.27A (0.8m dia.)	14	14	11-Oct-23	26-Oct-23	29	0%	ND/2019/02 - 6D (with PH)
1050	P2-8220	Install decking at KT1.29A & release TTA	1	1	26-Oct-23	27-Oct-23	29	0%	ND/2019/02 - 6D (with PH)
1051	**(KT1.26A to KT1.27A) (IL:5.1-4.6mPD) 800mm dia**		90	90	27-Oct-23	02-Feb-24	29	0%	ND/2019/02 - 6D (with PH)
1052	P2-8240	Set up and Assembly of TBM (0.8m dia.)	38	38	27-Oct-23	06-Dec-23	29	0%	ND/2019/02 - 6D (with PH)
1053	P2-8245	Pipe Jacking from FMH_KT1.26A to FMH_KT1.27A (85m, 3m/day)	28	28	06-Dec-23	08-Jan-24	29	0%	ND/2019/02 - 6D (with PH)
1054	P2-8250	Dismantling TBM (0.8m dia.)	21	21	09-Jan-24	30-Jan-24	29	0%	ND/2019/02 - 6D (with PH)
1055	P2-8255	Install decking at KT1.27A & release TTA	3	3	30-Jan-24	02-Feb-24	29	0%	ND/2019/02 - 6D (with PH)
1056	**(KT1.30A to KT1.29A) (IL:4.1-3.8mPD) 800mm dia**		70	70	02-Feb-24	24-Apr-24	29	0%	ND/2019/02 - 6D (with PH)
1057	P2-3070	Set up TTA for drilling from FMH_KT1.29A to FMH_KT1.30A	1	1	02-Feb-24	03-Feb-24	29	0%	ND/2019/02 - 6D (with PH)
1058	P2-3080	Set up and assembly of TBM (0.8m dia.)	38	38	03-Feb-24	18-Mar-24	29	0%	ND/2019/02 - 6D (with PH)
1059	P2-3090	Pipe Jacking from FMH_KT1.30A to FMH_KT1.29A (30m, 3m/day)	10	10	18-Mar-24	28-Mar-24	29	0%	ND/2019/02 - 6D (with PH)
1060	P2-3100	Removal of TBM (1.2m dia.) at FMH_KT1.29A	21	21	28-Mar-24	24-Apr-24	29	0%	ND/2019/02 - 6D (with PH)
1061	**(KT1.33A to KT1.32A) (IL: 3.6mPD) 1500mm dia**		244	244	31-Jul-23	27-Apr-24	26	0%	ND/2019/02 - 6D (with PH)
1062	P2-4020	Set up and assembly of TBM (1.5m dia.)	38	38	31-Jul-23	08-Sep-23	26	0%	ND/2019/02 - 6D (with PH)
1063	P2-4030	Pipe Jacking from FMH_KT1.33A to FMH_KT1.32A (557m, 3m/day)	186	186	08-Sep-23	06-Apr-24	26	0%	ND/2019/02 - 6D (with PH)
1064	P2-4040	Removal of TBM (1.5m dia.) at FMH_KT1.32A	20	20	06-Apr-24	27-Apr-24	26	0%	ND/2019/02 - 6D (with PH)
1065	**(KT6003A to KT6003B) (IL: 6.0-5.7mPD) 2100mm dia**		87	87	02-May-23	05-Aug-23	26	0%	ND/2019/02 - 6D (with PH)
1066	P2-8260	Set up and Assembly TBM (2.1m dia.) at SMH_KT6003A	38	38	02-May-23	13-Jun-23	26	0%	ND/2019/02 - 6D (with PH)
1067	P2-8265	Pipe Jacking from SMH_KT6003A to SMH_KT6003B (85m, 3m/day)	28	28	13-Jun-23	14-Jul-23	26	0%	ND/2019/02 - 6D (with PH)
1068	P2-8270	Removal of TBM (2.1m dia.) at SMH_KT6003B	21	21	14-Jul-23	05-Aug-23	26	0%	ND/2019/02 - 6D (with PH)
1069	**(KT6004A to KT6003B) (IL: 5.3-5.7mPD) 2100mm dia**		86	86	05-Aug-23	07-Nov-23	26	0%	ND/2019/02 - 6D (with PH)
1070	P2-8275	Set up and Assembly TBM (2.1m dia.) at SMH_KT6004A	38	38	05-Aug-23	14-Sep-23	26	0%	ND/2019/02 - 6D (with PH)
1071	P2-8280	Pipe Jacking from SMH_KT6004A to SMH_KT6003B (80m, 3m/day)	27	27	14-Sep-23	14-Oct-23	26	0%	ND/2019/02 - 6D (with PH)
1072	P2-8285	Dismantle TBM at SMH_KT6003B	21	21	14-Oct-23	07-Nov-23	26	0%	ND/2019/02 - 6D (with PH)
1073	**(KT6004A to KT6005A) (IL: 5.9mPD) 2100mm dia**		259	259	07-Nov-23	21-Aug-24	26	0%	ND/2019/02 - 6D (with PH)
1074	P2-2170	Set up and Assembly TBM (2.1m dia.) at SMH_KT6004A	38	38	07-Nov-23	16-Dec-23	26	0%	ND/2019/02 - 6D (with PH)
1075	P2-2180	Pipe Jacking from SMH_KT6004A to SMH_KT6005A (599m, 3m/day)	200	200	16-Dec-23	30-Jul-24	26	0%	ND/2019/02 - 6D (with PH)
1076	P2-2190	Remove TBM (2.1m dia.) from SMH_KT6005A	21	21	30-Jul-24	21-Aug-24	26	0%	ND/2019/02 - 6D (with PH)
1077	**Manhole Construction**		851	269	11-Apr-22 A	27-Nov-24	693	68.38%	ND/2019/02 - 6D (with PH)
1078	**FMH_KT1.23**		108	0	11-Apr-22 A	26-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1079	P2-8286	Erection of Working Platform	9	0	11-Apr-22 A	16-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1080	P2-8288	Modification of Strut for Manhole FMH_KT1.23 construction	5	0	18-Apr-22 A	22-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1081	P2-8290	Manhole FMH_KT1.23 construction	21	0	19-May-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1082	P2-8291	Reinstatement of Combined Pit	23	0	01-Aug-22 A	24-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1083	P2-8292	Inclement Weather on 25-Aug-2022	0	0		25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1084	P2-8293	Handover cofferdam to C1	0	0		26-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1085	**SMH_KT6003A & FMH_KT1.26A**		120	120	02-Feb-24	19-Jun-24	75	0%	ND/2019/02 - 6D (with PH)
1086	P2-8305	Manhole FMH_KT1.26A construction	30	30	02-Feb-24	08-Mar-24	75	0%	ND/2019/02 - 6D (with PH)
1087	P2-8310	Manhole SMH_KT6003A construction	30	30	08-Mar-24	13-Apr-24	75	0%	ND/2019/02 - 6D (with PH)
1088	P2-8315	Backfill and reinstatement	60	60	13-Apr-24	19-Jun-24	75	0%	ND/2019/02 - 6D (with PH)
1089	**SMH_KT6003B & FMH_KT1.27A**		120	120	02-Feb-24	19-Jun-24	115	0%	ND/2019/02 - 6D (with PH)
1090	P2-8335	Manhole FMH_KT1.27A construction	30	30	02-Feb-24	08-Mar-24	81	0%	ND/2019/02 - 6D (with PH)
1091	P2-8340	Manhole SMH_KT6003B construction	30	30	08-Mar-24	13-Apr-24	81	0%	ND/2019/02 - 6D (with PH)
1092	P2-8350	Backfill and reinstatement	60	60	13-Apr-24	19-Jun-24	115	0%	ND/2019/02 - 6D (with PH)
1093	**SMH_KT6004A & FMH_KT1.29A**		199	199	24-Apr-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1094	P2-8320	Manhole FMH_KT1.29A construction	30	30	24-Apr-24	28-May-24	71	0%	ND/2019/02 - 6D (with PH)
1095	P2-8325	Manhole SMH_KT6004A construction	30	30	21-Aug-24	23-Sep-24	26	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 17 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1096	P2-8355	Backfill and reinstatement	60	60	23-Sep-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1097	**FMH_KT1.32A**		90	90	27-Apr-24	05-Aug-24	26	0%	ND/2019/02 - 6D (with PH)
1098	P2-4060	Manhole FMH_KT1.32A construction	30	30	27-Apr-24	31-May-24	26	0%	ND/2019/02 - 6D (with PH)
1099	P2-8365	Backfill and reinstatement	60	60	31-May-24	05-Aug-24	26	0%	ND/2019/02 - 6D (with PH)
1100	**FMH_KT1.30A**		90	90	24-Apr-24	01-Aug-24	29	0%	ND/2019/02 - 6D (with PH)
1101	P2-3190	Manhole FMH_KT1.30A construction	30	30	24-Apr-24	28-May-24	29	0%	ND/2019/02 - 6D (with PH)
1102	P2-3200	Backfill and reinstatement	60	60	28-May-24	01-Aug-24	29	0%	ND/2019/02 - 6D (with PH)
1103	**SMH_KT6005A & FMH_KT1.33A**		106	106	05-Aug-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1104	P2-2200	Manhole FMH_KT1.33A construction	30	30	05-Aug-24	05-Sep-24	26	0%	ND/2019/02 - 6D (with PH)
1105	P2-4065	Manhole SMH_KT6005A construction	30	30	21-Aug-24	23-Sep-24	26	0%	ND/2019/02 - 6D (with PH)
1106	P2-4070	Backfill and reinstatement	60	60	23-Sep-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1107	**Utilities Works and Signage**		169	169	28-May-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1108	P2-7095	Reinstatement works of Disturbed landscape area	100	100	10-Aug-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1109	P2-7100	Installation of Branch Pipe (NS250 PE Pipe) to KT1.29A	24	24	28-May-24	24-Jun-24	71	0%	ND/2019/02 - 6D (with PH)
1110	P2-7120	UU (UG 11kV Cable) and signage works	100	100	10-Aug-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1111	**Portion 3 - Road & Drains**		1424	523	13-Jul-20 A	27-Nov-24	693	63.28%	ND/2019/02 - 6D (with PH)
1112	**Site Possession**		0	0	03-Aug-20 A	03-Aug-20 A		0%	ND/2019/02 - 6D (with PH)
1113	P3-1000	Possession of site - Portion 3	0	0	03-Aug-20 A			100%	ND/2019/02 - 6D (with PH)
1114	**Pre-construction works**		1327	450	13-Jul-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
1115	P3-1010	Utilities Detection in Portion 3	27	0	13-Jul-20 A	17-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
1116	P3-1020	Inspection Pit	36	0	03-Aug-20 A	18-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1117	P3-1030	Coordination with UU owner to arrange diversion / abandon	27	0	19-Sep-20 A	30-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1118	P3-1040	Environmental GI & submission of Lab report (PS:1.138)	19	0	18-Aug-20 A	11-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1119	P3-1050	Circulation & Approval of TTAs	14	0	30-Nov-21 A	15-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1120	P3-1060	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
1121	**Drainage Outfall_6013 constuction by Open Cut (By CE-067)**		334	0	15-Oct-21 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1122	**Outfall_6013**		132	0	29-Nov-21 A	26-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1123	P3-4005	Sheet Pile Installation at Outfall	26	0	29-Nov-21 A	20-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1124	P3-4010	Formation of Tempoary haul road	6	0	21-Dec-21 A	23-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1125	P3-4020-02	Excavation to 1st strut level	5	0	04-Jan-22 A	08-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1126	P3-4020-04	Installation 1st level strut and testing	14	0	04-Jan-22 A	19-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1127	P3-4020-06	Excavation to 2nd strut level	10	0	20-Jan-22 A	25-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1128	P3-4020-08	Installation 2nd level strut and testing	14	0	07-Feb-22 A	12-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1129	P3-4020-10	Excavation to Formation Level	2	0	12-Feb-22 A	14-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1130	P3-4020-20	Backfilling and Blinding works to outfall	1	0	15-Feb-22 A	16-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1131	P3-4020-30	Allow 7 days for concrete strength development	7	0	17-Feb-22 A	24-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1132	P3-4020-40	Dismantle 2nd Layer Strut	1	0	25-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1133	P3-4020-50	Outfall Baseslab (Incl concreting)	3	0	01-Mar-22 A	03-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1134	P3-4020-60	Dismantle Base slab Formwork	2	0	04-Mar-22 A	05-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1135	P3-4020-70	Outfall Wall (Incl concreting)	14	0	07-Mar-22 A	22-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1136	P3-4020-75	Inclement Weather on 23-Mar-2022	1	0	23-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1137	P3-4020-80	Dismantle Wall Formwork	3	0	24-Mar-22 A	26-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1138	**Manhole SMH_KT6013A & FMH_KT1.36A**		304	0	15-Oct-21 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1139	**ELS**		99	0	15-Oct-21 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1140	P3-5220	Sheet Pile Installation of combined shaft (KT1.36A & KT6013A)	15	0	15-Oct-21 A	02-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
1141	P3-5230	Soft Excavation to 1st strut level	6	0	03-Jan-22 A	08-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1142	P3-5230.1	Installation of strut S1	12	0	11-Jan-22 A	22-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1143	P3-5240	Soft Excavation to 2nd strut level	3	0	27-Jan-22 A	29-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1144	P3-5240.1	Installation of strut S2	4	0	10-Feb-22 A	19-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1145	P3-5250	Soft Excavation to 3rd strut level	5	0	23-Feb-22 A	26-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1146	P3-5250.1	Installation of strut S3	12	0	28-Feb-22 A	12-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1147	P3-5260	Soft Excavation to F.L ; (approx. 8.5m depth) with blinding casting	8	0	14-Mar-22 A	22-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1148	P3-5265	Inclement Weather on 23-Mar-2022	1	0	23-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1149	**FMH_KT1.36A**		39	0	26-Mar-22 A	28-May-22 A		100%	ND/2019/02 - 6D (with PH)
1150	P3-5280	Formwork erection of manhole of KT1.36A (lower portion: +0.022mPD)	1	0	26-Mar-22 A	26-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1151	P3-5280-1	Inclement Weather on 28-Mar-2022	1	0	28-Mar-22 A	28-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1152	P3-5280-2	Formwork erection of manhole of KT1.36A (lower portion: +0.022mPD)	3	0	29-Mar-22 A	31-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1153	P3-5290	Rebar fixing for manhole of KT1.36A (lower portion: +0.022mPD)	5	0	01-Apr-22 A	08-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1154	P3-5295	Concreting of manhole KT1.36A (lower portion: +0.022mPD)	1	0	09-Apr-22 A	09-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1155	P3-5297	Dismantle of formwork	2	0	11-Apr-22 A	12-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1156	P3-5310	Formwork erection of manhole KT1.36A:(Middle portion)	4	0	13-Apr-22 A	23-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1157	P3-5320	Rebar fixing of manhole KT1.36A:(Middle portion)	9	0	25-Apr-22 A	05-May-22 A		100%	ND/2019/02 - 6D (with PH)
1158	P3-5330	Concreting of manhole KT1.36A:(Middle portion)	1	0	12-May-22 A	12-May-22 A		100%	ND/2019/02 - 6D (with PH)
1159	P3-5337	Inclement Weather on 11 to 13 May 2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
1160	P3-5760	Formwork erection of manhole KT1.36A (Top portion)	3	0	14-May-22 A	17-May-22 A		100%	ND/2019/02 - 6D (with PH)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1161	P3-5770	Rebar fixing of manhole KT1.36A (Top portion)	8	0	18-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
1162	P3-5770-1	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1163	P3-5780	Concreting of manhole KT1.36A (Top portion)	1	0	28-May-22 A	28-May-22 A		100%	ND/2019/02 - 6D (with PH)
1164	**SMH_KT6013A**		103	0	07-Jun-22 A	25-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1165	P3-5335	Dismantle of scaffolding of manhole KT1.36A	5	0	07-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1166	P3-5340	Mass Concrete of manhole KT6013A	6	0	13-Jun-22 A	18-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1167	P3-5345	Dismantle 3rd Layer Strut	2	0	20-Jun-22 A	21-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1168	P3-5610	Formwork erection of manhole KT6013A (lower portion)	4	0	22-Jun-22 A	25-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1169	P3-5620	Rebar fixing of manhole KT6013A (lower portion)	4	0	27-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1170	P3-5620-1	Inclement Weather on 2 & 4-Jul-2022	2	0	02-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1171	P3-5620-2	Rebar fixing of manhole KT6013A (lower portion)	3	0	05-Jul-22 A	07-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1172	P3-5630	Concreting of manhole KT6013A (lower portion)	1	0	08-Jul-22 A	08-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1173	P3-5640	Dismantle of formwork (lower portion)	1	0	09-Jul-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1174	P3-5730	Formwork erection of supporting Block for 3m Drain	4	0	11-Jul-22 A	14-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1175	P3-5740	Rebar fixing of supporting Block for 3m Drain	8	0	15-Jul-22 A	23-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1176	P3-5750	Concreting of supporting Block for 3m Drain	1	0	25-Jul-22 A	25-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1177	**Drainage Installation**		211	0	26-Jul-22 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1178	P3-5670	ELS modification between Manhole KT6013A to Outfall	4	0	26-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1179	P3-5670-1	Inclement Weather on 30-Jul-2022	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1180	P3-5680	3m dia. Pipe Laying	4	0	30-Jul-22 A	03-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1181	P3-5680.1	Inclement Weather on 3 to 5-Aug-2022	3	0	03-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1182	P3-5680.2	3m dia. Pipe Laying	2	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1183	P3-5680.3	Inclement Weather on 8 to 10-Aug-2022	3	0	08-Aug-22 A	10-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1184	P3-5680.4	3m dia. Pipe Laying	1	0	11-Aug-22 A	11-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1185	P3-5680.5	Inclement Weather on 12-Aug-2022	1	0	12-Aug-22 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1186	P3-5680.6	3m dia. Pipe Laying	3	0	13-Aug-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1187	P3-5680.7	Inclement Weather on 17 to 18-Aug-2022	2	0	17-Aug-22 A	18-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1188	P3-5690	Backfill drain trench to 2nd Layer Strut level	4	0	19-Aug-22 A	23-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1189	P3-5690.1	Inclement Weather on 25-Aug-2022	2	0	24-Aug-22 A	25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1190	P3-5700	Dismantle 2nd layer strut	4	0	26-Aug-22 A	30-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1191	P3-6250	Falsework erection of manhole KT6013A (Upper portion)	8	0	31-Aug-22 A	06-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1192	P3-6255	1st side Formwork erection of manhole KT6013A (Upper portion)	4	0	07-Sep-22 A	11-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1193	P3-6260	Rebar fixing of manhole KT6013A (Upper portion)	5	0	13-Sep-22 A	17-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1194	P3-6265	2nd side Formwork erection of manhole KT6013A (Upper portion)	4	0	19-Sep-22 A	22-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1195	P3-6270	Concreting of manhole KT6013A (Upper portion)	1	0	24-Sep-22 A	24-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1196	P3-6275	Backfill to 1st strut level and Dismantle 1st layer strut	41	0	18-Oct-22 A	22-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1197	P3-6280	Backfill to original ground level and remove Sheet Pile	10	0	23-Nov-22 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1198	**Sewer Pipeline Installation (KT1.33A to KT1.41A)**		576	128	07-Dec-21 A	16-Sep-23	1088	77.77%	ND/2019/02 - 6D (with PH)
1199	**KT1.39A - KT1.38A (99m) (Pipe Jacking by CE-074)**		338	0	07-Dec-21 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1200	P3-2500	Expose Utilites by Hand excavation	6	0	07-Dec-21 A	14-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1201	P3-2510	KT1.39A Sheet Pile Installation for lauching shaft	8	0	15-Dec-21 A	23-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1202	P3-2520	KT1.39A Soft Excavation to 1st strut level & Installation of strut S1	9	0	31-Dec-21 A	11-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1203	P3-2530	KT1.39A Soft Excavation to 2nd strut level & Installation of strut S2	8	0	12-Jan-22 A	20-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1204	P3-2540	KT1.39A Soft Excavation to 3rd strut level & Installation of strut S3	8	0	21-Jan-22 A	29-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1205	P3-2550	KT1.39A Soft Excavation to F.L ; (approx. 8.5m depth)	5	0	15-Feb-22 A	19-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1206	P3-2552	TBM Works On Hold Due to Pipe Jacking Workers suffered Covid-19	26	0	19-Feb-22 A	24-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1207	P3-2553	Inclement Weather on 23 to 24-Mar-2022	2	0	23-Mar-22 A	24-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1208	P3-2554	Inclement Weather on 28 to 29-Mar-2022	2	0	28-Mar-22 A	29-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1209	P3-2555	Set up Pipe Jacking Equipment (1st pipe)	30	0	25-Mar-22 A	29-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1210	P3-2556	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	3	0	07-May-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
1211	P3-2556.16	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
1212	P3-2556.17	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	11	0	14-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
1213	P3-2556.18	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1214	P3-2556.19	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	6	0	28-May-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1215	P3-2556.20	Inclement Weather on 06 to 09-Jun-2022	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1216	P3-2556.21	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1217	P3-2556.22	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1218	P3-2556.23	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	1	0	13-Jun-22 A	13-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1219	P3-3000	TBM reach the sheet pile at receiving pit	1	0	14-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1220	P3-3000.2	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1221	P3-3002	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	0	16-Jun-22 A	21-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1222	P3-3004	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air	2	0	22-Jun-22 A	23-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1223	P3-3006	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	5	0	24-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1224	P3-3006.2	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)

2023

Jun | Jul | Aug | Sep

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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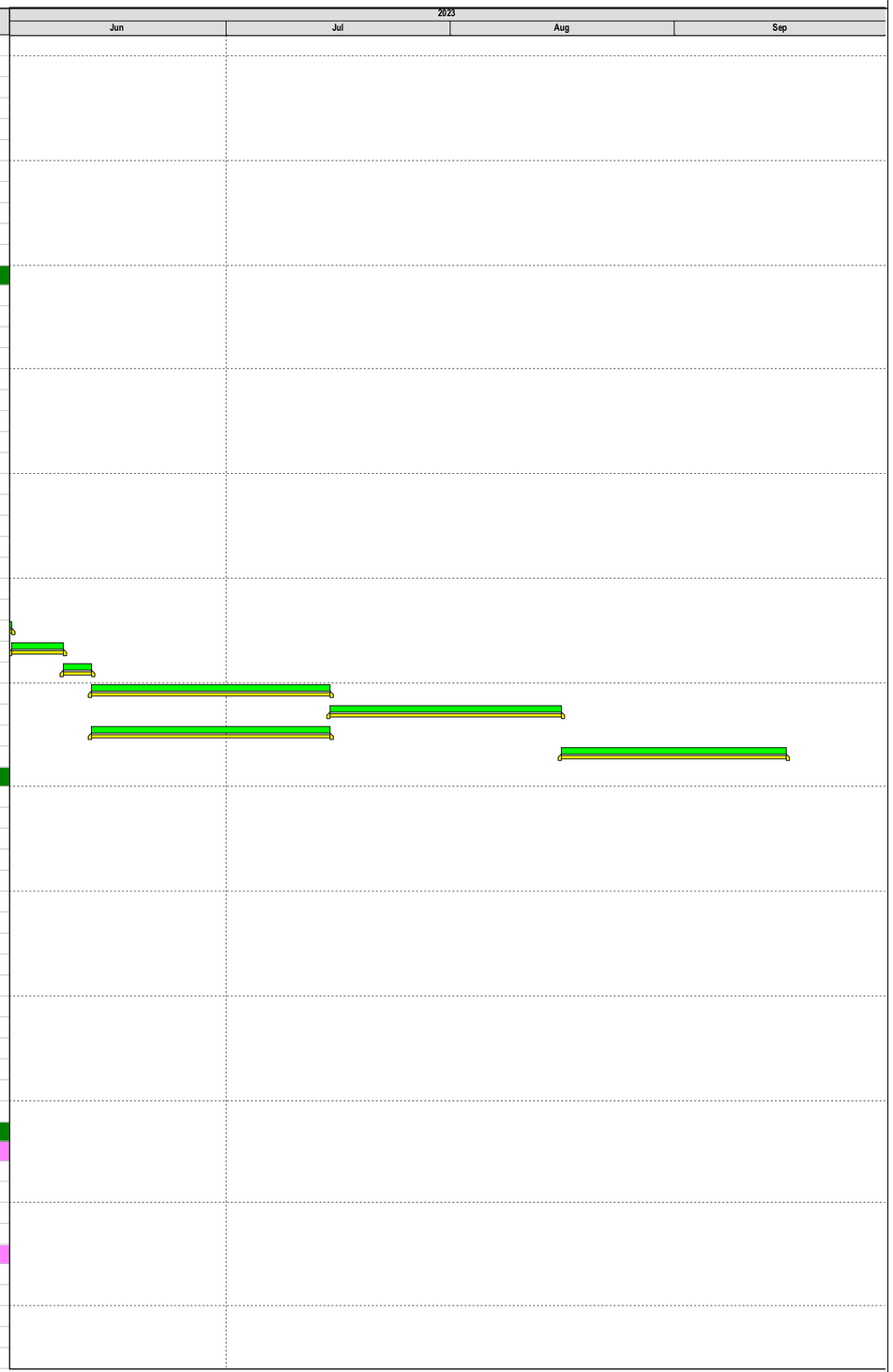
Programme Forecast (Jun-Jul-Aug-Sep 2023)

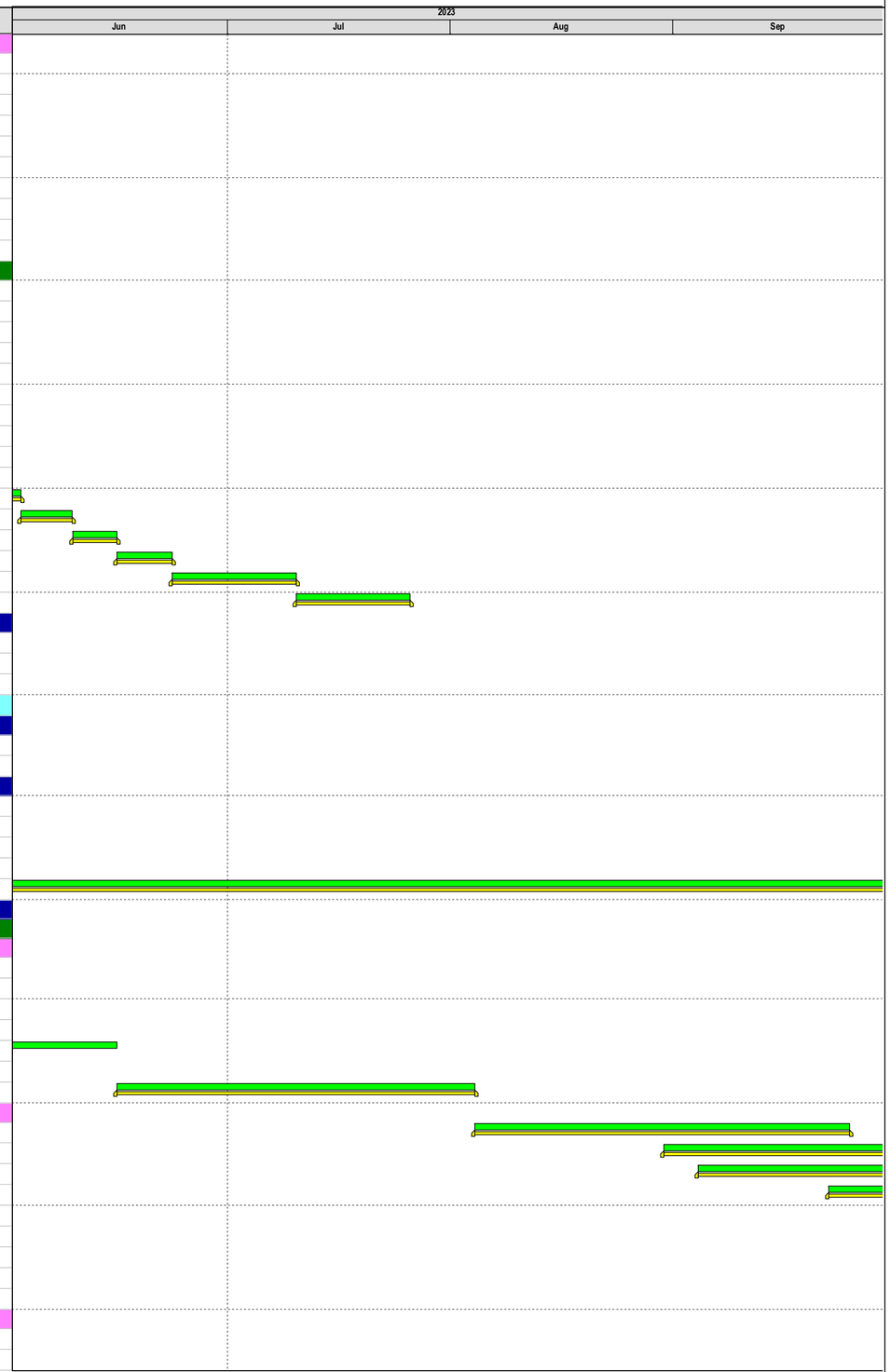
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1225	P3-3010	Set up Pipe Jacking Equipment (2nd pipe)	3	0	02-Jul-22 A	05-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1226	P3-3020	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.38A) (99m ~3m/d)	21	0	05-Jul-22 A	28-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1227	P3-5790	TBM reach the sheet pile at receiving pit	1	0	29-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1228	P3-5792	Inclement Weather on 30-Jul-2022	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1229	P3-5800	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	0	01-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1230	P3-5810	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air	2	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1231	P3-5820	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	10	0	09-Aug-22 A	19-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1232	P3-5830	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	0	20-Aug-22 A	27-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1233	P3-5835	Modify the hoisting frame at Jacking Pit	3	0	15-Sep-22 A	17-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1234	P3-5840	Construction of Manhole KT1.38A	24	0	14-Sep-22 A	15-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1235	P3-5842	Backfilling to at grade level KT1.38A	20	0	01-Dec-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1236	**KT1.39A - KT1.40A (99m) (Pipe Jacking by CE-074)**		576	128	15-Dec-21 A	16-Sep-23	331	77.77%	ND/2019/02 - 6D (with PH)
1237	P3-5450	Sheet Pile Installation for lauching shaft KT1.40A	21	0	15-Dec-21 A	23-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
1238	P3-5460	KT1.40A Soft Excavation to 1st strut level & Installation of strut S1	16	0	31-Dec-21 A	11-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1239	P3-5470	KT1.40A Soft Excavation to 2nd strut level & Installation of strut S2	8	0	02-Mar-22 A	10-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1240	P3-5480	KT1.40A Soft Excavation to 3rd strut level & Installation of strut S3	8	0	24-Mar-22 A	31-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1241	P3-5490	KT1.40A Soft Excavation to F.L ; (approx. 8.5m depth)	8	0	01-Apr-22 A	09-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1242	P3-5550	Set up Pipe Jacking Equipment (1st pipe)	15	0	19-Sep-22 A	11-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1243	P3-5560	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.40A) (99m ~3m/d)	33	0	12-Oct-22 A	18-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1244	P3-5856	TBM reach the sheet pile at receiving pit	1	0	19-Nov-22 A	19-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1245	P3-5866	Pre- treatment grouting, setup the exit ring, cutting sheet pile	5	0	21-Nov-22 A	25-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1246	P3-5876	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air	2	0	26-Nov-22 A	26-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1247	P3-5886	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	10	0	26-Nov-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1248	P3-6030	Set up Pipe Jacking Equipment (2nd pipe)	15	0	27-Jan-23 A	13-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1249	P3-6040	Pipe Jacking of 800 Concrete Pipe (1.39A to 1.40A) (99m ~3m/d)	33	16	14-Feb-23 A	18-May-23	331	51.52%	ND/2019/02 - 6D (with PH)
1250	P3-6050	TBM reach the sheet pile at receiving pit	1	0	17-Mar-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1251	P3-6060	Pre- treatment grouting, setup the exit ring, cutting sheet pile	7	0	18-Mar-23 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1252	P3-6070	TBM break through, setup guide rail, lifting out the TBM, jacking the remaining pipe to designated location, air	5	0	25-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1253	P3-6080	Demolish & removal of the slurry pipe, power cable inside the jacking pipe,	12	12	18-May-23	01-Jun-23	331	0%	ND/2019/02 - 6D (with PH)
1254	P3-6090	Demolish the guide rail, Breaking the thrust wall at Jacking Pit	7	7	01-Jun-23	08-Jun-23	331	0%	ND/2019/02 - 6D (with PH)
1255	P3-6100	Demolish and removal the hoisting frame at Jacking Pit	3	3	08-Jun-23	12-Jun-23	331	0%	ND/2019/02 - 6D (with PH)
1256	P3-6105	Construction of Manhole KT1.39A	30	30	12-Jun-23	15-Jul-23	331	0%	ND/2019/02 - 6D (with PH)
1257	P3-6107	Backfilling to at grade level KT1.39A	30	30	15-Jul-23	16-Aug-23	331	0%	ND/2019/02 - 6D (with PH)
1258	P3-6110	Construction of Manhole KT1.40A	30	30	12-Jun-23	15-Jul-23	361	0%	ND/2019/02 - 6D (with PH)
1259	P3-6120	Backfilling to at grade level KT1.40A	30	30	16-Aug-23	16-Sep-23	331	0%	ND/2019/02 - 6D (with PH)
1260	**KT1.38A - KT1.37A (99m) (Open Cut by CE-075)**		334	0	20-Dec-21 A	28-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1261	P3-2200	Sheet Pile Installation for open trench at KT1.38A - KT1.37A	49	0	20-Dec-21 A	19-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1262	P3-2210	Soft Excavation to 1st strut level (99m @12m / Bay)	72	0	20-Jan-22 A	30-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1263	P3-2210.1	Installation of strut S1 (99m @12m / Bay)	75	0	24-Jan-22 A	04-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1264	P3-2220	Soft Excavation to 2nd strut level (99m @12m / Bay)	75	0	11-Feb-22 A	07-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1265	P3-2220.1	Installation of strut S2 (99m @12m / Bay)	61	0	01-Mar-22 A	21-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1266	P3-2250	Soft Excavation to F.L ; (99m @12m / Bay)	59	0	10-Mar-22 A	25-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1267	P3-2253	Receipt from manufacturer's notification for delay of delivery due to Covid-19	51	0	01-Mar-22 A	29-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1268	P3-2255	Impacted Delivery Date of Concrete Pipe	0	0	05-May-22 A	05-May-22 A		100%	ND/2019/02 - 6D (with PH)
1269	P3-2260	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	5	0	05-May-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
1270	P3-2261	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
1271	P3-2263	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	10	0	14-May-22 A	25-May-22 A		100%	ND/2019/02 - 6D (with PH)
1272	P3-2264	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1273	P3-2265	Backfilling of drain to at grade level KT1.37A	40	0	30-May-22 A	16-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1274	P3-2270	Construction of Manhole KT1.37A	24	0	13-Jun-22 A	15-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1275	P3-2275	Extract Sheet Pile along trench	27	0	15-Jul-22 A	15-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1276	P3-2280	Backfilling of manhole to at grade level KT1.37A	49	0	01-Nov-22 A	28-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1277	**KT1.37A - KT1.36A (90m) (Open Cut by CE-068)**		305	0	03-Jan-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1278	**Before Tree Removal**		66	0	04-Feb-22 A	28-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1279	P3-2000	Expose Utilites by Hand excavation	7	0	04-Feb-22 A	11-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1280	P3-2005	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side before tree removal)	17	0	12-Feb-22 A	03-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1281	P3-2015	Inclement Weather on 23-Mar-2022	1	0	23-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1282	P3-2017	Inclement Weather on 28-Mar-2022	1	0	28-Mar-22 A	28-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1283	**Tree Removal**		161	0	03-Jan-22 A	15-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1284	P3-2009.1	RFI 076 for the Clashing of Pipe Trench of KT1.37A to KT1.36A	0	0		03-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1285	P3-2009.2	Waiting Period from Project Manager of RFI 076	45	0	04-Jan-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1286	P3-2009.3	Receipt of Project Reply of RFI 076 for felling the tree T0937	0	0	01-Mar-22 A			100%	ND/2019/02 - 6D (with PH)
1287	P3-2009.4	Application and Approval for tree felling of T0937	78	0	01-Mar-22 A	01-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1288	P3-2009.5	Tree felling works of T0937 to release working space for sheet piling	2	0	14-Jul-22 A	15-Jul-22 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1289		**After Tree Removal**	252	0	04-Mar-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1290	P3-2009.6	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side avoid abandoned tree location)	21	0	08-Jun-22 A	02-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1291	P3-2009.7	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (Cycle Track Side to close the entire trench)	103	0	04-Mar-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1292	P3-2010	Soft Excavation to 1st strut level	30	0	15-Jun-22 A	20-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1293	P3-2010.1	Installation of strut S1	32	0	29-Jun-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1294	P3-2020	Soft Excavation to 2nd strut level	30	0	06-Jul-22 A	25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1295	P3-2020.1	Installation of strut S2	32	0	19-Jul-22 A	29-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1296	P3-2070	Soft Excavation to F.L with blinding cast; (approx. 8.5m depth)	24	0	05-Sep-22 A	05-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1297	P3-2110	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	20	0	19-Sep-22 A	14-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1298	P3-2115	Backfilling of drain to at grade level with dismantling strut	40	0	06-Oct-22 A	21-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1299	P3-6290	Sheet Pile Extraction	30	0	02-Nov-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1300		**KT1.36A - KT1.33A (23m) (Open Cut by CE-068)**	192	78	20-Dec-22 A	26-Jul-23	365	59.47%	ND/2019/02 - 6D (with PH)
1301	P3-5025	Hand Dig Excavation to identiy the routing of existing utlities with diversion	56	0	20-Dec-22 A	23-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1302	P3-5030	Sheet Pile Installation of combined shaft (KT1.33A & KT6005A)	6	0	28-Feb-23 A	07-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1303	P3-5040	Soft Excavation to 1st strut level	3	0	07-Mar-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1304	P3-5040.1	Installation of strut S1	5	0	10-Mar-23 A	15-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1305	P3-5050	Soft Excavation to 2nd strut level	4	0	15-Mar-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1306	P3-5050.1	Installation of strut S2	5	0	20-Mar-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1307	P3-5070	Soft Excavation to F.L ; (approx. 8.5m depth)	6	0	24-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1308	P3-6130	Sheet pile installation of Trench for 800 dia. and 2100 dia. pipe installation	10	10	02-May-23	11-May-23	365	0%	ND/2019/02 - 6D (with PH)
1309	P3-6140	Soft Excavation to to 1st Strut Level	6	6	12-May-23	18-May-23	365	0%	ND/2019/02 - 6D (with PH)
1310	P3-6150	Install 1st Level Strut	7	7	18-May-23	25-May-23	365	0%	ND/2019/02 - 6D (with PH)
1311	P3-6160	Soft Excavation to to 2nd Strut Level	6	6	25-May-23	02-Jun-23	365	0%	ND/2019/02 - 6D (with PH)
1312	P3-6170	Install 2nd Level Strut	7	7	02-Jun-23	09-Jun-23	365	0%	ND/2019/02 - 6D (with PH)
1313	P3-6200	Excavate to FEL	6	6	09-Jun-23	15-Jun-23	365	0%	ND/2019/02 - 6D (with PH)
1314	P3-6210	Bedding & 800 Dia. Concrete Pipe Laying	6	6	15-Jun-23	23-Jun-23	365	0%	ND/2019/02 - 6D (with PH)
1315	P3-6220	Backfill to base level of 2100 dia pipe, bedding and pipe laying	15	15	23-Jun-23	10-Jul-23	365	0%	ND/2019/02 - 6D (with PH)
1316	P3-6230	Backfill to formation and reinstatement	15	15	10-Jul-23	26-Jul-23	365	0%	ND/2019/02 - 6D (with PH)
1317		**Reinstatement**	90	90	21-Aug-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1318	P3-5005	Remaining Pipe Connection to Manhole (After Pipe Jacking)	10	10	16-Nov-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1319	P3-5010	Underground Utilities & Road works	90	90	21-Aug-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1320	P3-5020	Reinstatement of Road, disturbed landscape area and Tree Planting (83nos.)	40	40	16-Oct-24	27-Nov-24	26	0%	ND/2019/02 - 6D (with PH)
1321		**Portion 4 - Road & Drains**	1595	593	16-Apr-20 A	14-Dec-24	751	62.82%	
1322		**Site Possession**	304	0	16-Apr-20 A	03-Aug-20 A		100%	
1323	P4-1070	Possession of site - Part of Portion 4	0	0	16-Apr-20 A			100%	ND/2019/02 - 7D (without PH)
1324	P4-1075	Possession of site - Remaining Part of Portion 4	0	0	03-Aug-20 A			100%	ND/2019/02 - 6D (with PH)
1325		**Pre-construction works**	1327	450	13-Jul-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
1326	P4-1010	Utilities Detection in Portion 4	27	0	13-Jul-20 A	17-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
1327	P4-1020	Inspection Pit	36	0	18-Aug-20 A	22-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1328	P4-1030	Coordination with UU owner to arrange diversion / abandon	27	0	23-Sep-20 A	30-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1329	P4-1040	Environmental GI & submission of Lab report (PS:1.138)	27	0	19-Aug-20 A	22-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1330	P4-1050	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
1331		**Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)**	694	385	24-May-22 A	02-Jul-24	9	44.52%	ND/2019/02 - 6D (with PH)
1332		**Gang 1**	694	385	24-May-22 A	02-Jul-24	9	44.52%	ND/2019/02 - 6D (with PH)
1333		**Rising Main CHB255 to CHB371 (116M) Gang 1-1**	396	87	24-May-22 A	04-Aug-23	9	78.02%	ND/2019/02 - 6D (with PH)
1334	P4-3210	Sheet Pile Installation for open trench (600 pcs)	49	0	24-May-22 A	21-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1335	P4-3212	Soft Excavation to 1st strut level	57	0	23-Jun-22 A	28-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1336	P4-3214	Installation of strut S1	58	0	05-Jul-22 A	18-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1337	P4-3220	Soft Excavation to F.L.	136	0	09-Aug-22 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1338	P4-3222	Bedding and Pipe Laying (Twins DN700)	112	42	27-Sep-22 A	15-Jun-23	9	62.5%	ND/2019/02 - 6D (with PH)
1339	P4-3223	RC Works Inspection Chamber and Air Valve Chamber	112	0	27-Sep-22 A	31-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1340	P4-3224	Backfilling of drain to at grade level	45	45	15-Jun-23	04-Aug-23	9	0%	ND/2019/02 - 6D (with PH)
1341		**Rising Main CHB180 to CHB255 (75M) Gang 1-2**	155	155	04-Aug-23	20-Jan-24	9	0%	ND/2019/02 - 6D (with PH)
1342	P4-6480	Sheet Pile Installation for open trench	49	49	04-Aug-23	25-Sep-23	9	0%	ND/2019/02 - 6D (with PH)
1343	P4-6490	Soft Excavation to 1st strut level	57	57	30-Aug-23	02-Nov-23	9	0%	ND/2019/02 - 6D (with PH)
1344	P4-6500	Installation of strut S1	58	58	04-Sep-23	07-Nov-23	9	0%	ND/2019/02 - 6D (with PH)
1345	P4-6510	Soft Excavation to 2nd strut level	42	42	22-Sep-23	09-Nov-23	9	0%	ND/2019/02 - 6D (with PH)
1346	P4-6520	Installation of strut S2	44	44	05-Oct-23	22-Nov-23	9	0%	ND/2019/02 - 6D (with PH)
1347	P4-6530	Soft Excavation to F.L.	39	39	16-Oct-23	27-Nov-23	9	0%	ND/2019/02 - 6D (with PH)
1348	P4-6540	Bedding and Pipe Laying (Twins DN700)	20	20	16-Nov-23	07-Dec-23	9	0%	ND/2019/02 - 6D (with PH)
1349	P4-6545	RC Works Inspection Chamber and Air Valve Chamber	45	45	16-Nov-23	06-Jan-24	23	0%	ND/2019/02 - 6D (with PH)
1350	P4-6550	Backfilling of drain to at grade level	45	45	01-Dec-23	20-Jan-24	9	0%	ND/2019/02 - 6D (with PH)
1351		**Rising Main CHB515 to CHB589 (74M) Gang 1-3**	143	143	20-Jan-24	02-Jul-24	9	0%	ND/2019/02 - 6D (with PH)
1352	P4-5920	Sheet Pile Installation for open trench	36	36	20-Jan-24	02-Mar-24	9	0%	ND/2019/02 - 6D (with PH)
1353	P4-5930	Soft Excavation to 1st strut level	38	38	20-Feb-24	03-Apr-24	9	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

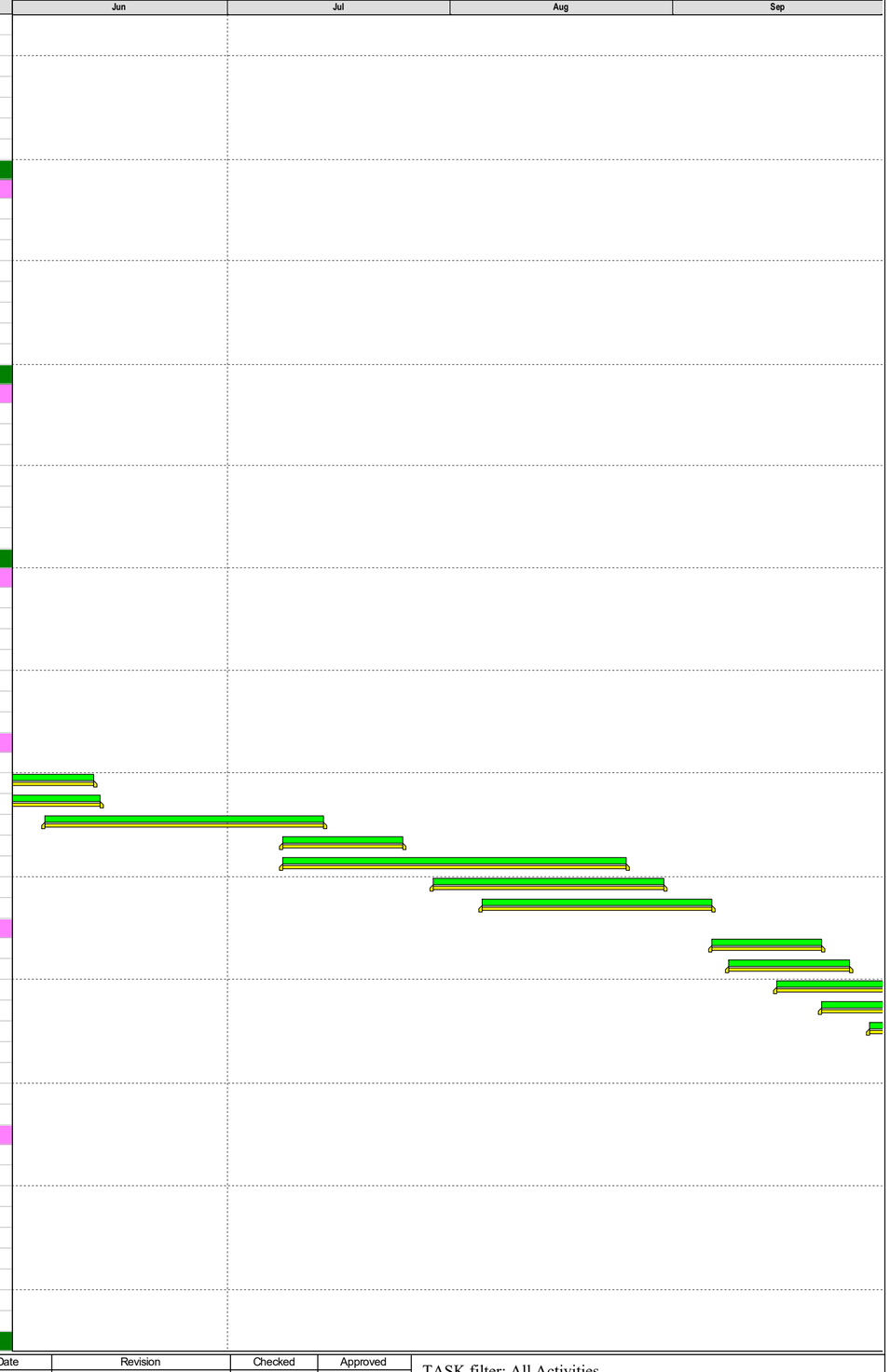
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 21 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1354	P4-5940	Installation of strut S1	36	36	23-Feb-24	05-Apr-24	9	0%	ND/2019/02 - 6D (with PH)
1355	P4-5950	Soft Excavation to 2nd strut level	30	30	13-Mar-24	18-Apr-24	9	0%	ND/2019/02 - 6D (with PH)
1356	P4-5960	Installation of strut S2	30	30	26-Mar-24	30-Apr-24	9	0%	ND/2019/02 - 6D (with PH)
1357	P4-5970	Soft Excavation to F.L.	35	35	02-Apr-24	11-May-24	9	0%	ND/2019/02 - 6D (with PH)
1358	P4-5980	Bedding and Pipe Laying (Twins DN700)	20	20	25-Apr-24	18-May-24	9	0%	ND/2019/02 - 6D (with PH)
1359	P4-5985	RC Works Inspection Chamber and Air Valve Chamber	45	45	25-Apr-24	14-Jun-24	24	0%	ND/2019/02 - 6D (with PH)
1360	P4-5990	Backfilling of drain to at grade level	45	45	13-May-24	02-Jul-24	9	0%	ND/2019/02 - 6D (with PH)
1361	**Gang 2**		216	0	02-Aug-22 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1362	**Rising Main CHB120 to CHB180 (60M) Gang 2-1**		216	0	02-Aug-22 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1363	P4-6000	Sheet Pile Installation for open trench	49	0	02-Aug-22 A	28-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1364	P4-6010	Soft Excavation to 1st strut level	57	0	20-Sep-22 A	19-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1365	P4-6020	Installation of strut S1	58	0	03-Oct-22 A	09-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1366	P4-6050	Soft Excavation to F.L.	50	0	25-Oct-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1367	P4-6060	Bedding and Pipe Laying (Twins DN700)	20	0	04-Jan-23 A	30-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1368	P4-6065	RC Works Inspection Chamber and Air Valve Chamber	63	0	04-Jan-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1369	P4-6070	Backfilling of drain to at grade level	40	0	11-Jan-23 A	24-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1370	P4-6320	Sheet Pile Extraction	30	0	23-Feb-23 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1371	**Gang 3**		168	0	05-Aug-22 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1372	**Rising Main CHB589 to CHB699 (88M) Gang 3-1**		168	0	05-Aug-22 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1373	P4-5600	Sheet Pile Installation for open trench	42	0	05-Aug-22 A	23-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1374	P4-5610	Soft Excavation to 1st strut level	40	0	15-Aug-22 A	30-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1375	P4-5620	Installation of strut S1	25	0	07-Sep-22 A	08-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1376	P4-5650	Soft Excavation to F.L.	34	0	14-Sep-22 A	26-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1377	P4-5660	Bedding and Pipe Laying (Twins DN700)	7	0	04-Nov-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1378	P4-5665	RC Works Inspection Chamber and Air Valve Chamber	45	0	04-Nov-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1379	P4-5670	Backfilling of drain to at grade level	45	0	16-Dec-22 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1380	**Gang 4**		542	352	29-Sep-22 A	25-May-24	42	35.06%	ND/2019/02 - 6D (with PH)
1381	**Rising Main CHB50 to CHB120 (70M) Gang 4-1**		131	0	29-Sep-22 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1382	P4-6080	Sheet Pile Installation for open trench	49	0	29-Sep-22 A	25-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1383	P4-6090	Soft Excavation to 1st strut level	57	0	17-Oct-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1384	P4-6100	Installation of strut S1	58	0	24-Oct-22 A	24-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1385	P4-6110	Soft Excavation to F.L.	42	0	28-Oct-22 A	30-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1386	P4-6140	Bedding and Pipe Laying (Twins DN700)	20	0	10-Dec-22 A	15-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1387	P4-6145	RC Works Inspection Chamber and Air Valve Chamber	45	0	10-Dec-22 A	02-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1388	P4-6150	Backfilling of drain to at grade level	45	0	03-Jan-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1389	**Rising Main CHB371 to CHB493 (122M) Gang 4-2**		151	118	21-Mar-23 A	06-Sep-23	42	22.08%	ND/2019/02 - 6D (with PH)
1390	P4-6410	Sheet Pile Installation for open trench	36	27	21-Mar-23 A	31-May-23	42	25%	ND/2019/02 - 6D (with PH)
1391	P4-6420	Soft Excavation to 1st strut level	38	38	02-May-23	12-Jun-23	42	0%	ND/2019/02 - 6D (with PH)
1392	P4-6430	Installation of strut S1	36	36	04-May-23	13-Jun-23	42	0%	ND/2019/02 - 6D (with PH)
1393	P4-6440	Soft Excavation to F.L.	35	35	05-Jun-23	14-Jul-23	42	0%	ND/2019/02 - 6D (with PH)
1394	P4-6450	Bedding and Pipe Laying (Twins DN700)	15	15	08-Jul-23	25-Jul-23	42	0%	ND/2019/02 - 6D (with PH)
1395	P4-6455	RC Works Inspection Chamber and Air Valve Chamber	45	45	08-Jul-23	25-Aug-23	42	0%	ND/2019/02 - 6D (with PH)
1396	P4-6460	Backfilling of drain to at grade level	30	30	29-Jul-23	30-Aug-23	42	0%	ND/2019/02 - 6D (with PH)
1397	P4-6470	Sheet Pile Extraction	30	30	05-Aug-23	06-Sep-23	42	0%	ND/2019/02 - 6D (with PH)
1398	**Rising Main CHB699 to CHB749 (50M) Gang 4-3**		86	86	06-Sep-23	08-Dec-23	42	0%	ND/2019/02 - 6D (with PH)
1399	P4-5680	Sheet Pile Installation for open trench	15	15	06-Sep-23	21-Sep-23	42	0%	ND/2019/02 - 6D (with PH)
1400	P4-5690	Soft Excavation to 1st strut level	15	15	08-Sep-23	25-Sep-23	42	0%	ND/2019/02 - 6D (with PH)
1401	P4-5700	Installation of strut S1	20	20	15-Sep-23	09-Oct-23	42	0%	ND/2019/02 - 6D (with PH)
1402	P4-5710	Soft Excavation to 2nd strut level	15	15	21-Sep-23	10-Oct-23	42	0%	ND/2019/02 - 6D (with PH)
1403	P4-5720	Installation of strut S2	20	20	28-Sep-23	21-Oct-23	42	0%	ND/2019/02 - 6D (with PH)
1404	P4-5730	Soft Excavation to F.L.	15	15	11-Oct-23	27-Oct-23	42	0%	ND/2019/02 - 6D (with PH)
1405	P4-5740	Bedding and Pipe Laying (Twins DN700)	10	10	25-Oct-23	04-Nov-23	42	0%	ND/2019/02 - 6D (with PH)
1406	P4-5745	RC Works Inspection Chamber and Air Valve Chamber	36	36	25-Oct-23	02-Dec-23	42	0%	ND/2019/02 - 6D (with PH)
1407	P4-5750	Backfilling of drain to at grade level	25	25	13-Nov-23	08-Dec-23	42	0%	ND/2019/02 - 6D (with PH)
1408	**Rising Main CHB749 to CHB867 (118M) Gang 4-4**		148	148	08-Dec-23	25-May-24	42	0%	ND/2019/02 - 6D (with PH)
1409	P4-5760	Sheet Pile Installation for open trench	49	49	08-Dec-23	01-Feb-24	42	0%	ND/2019/02 - 6D (with PH)
1410	P4-5770	Soft Excavation to 1st strut level	57	57	02-Jan-24	05-Mar-24	42	0%	ND/2019/02 - 6D (with PH)
1411	P4-5780	Installation of strut S1	58	58	09-Jan-24	13-Mar-24	42	0%	ND/2019/02 - 6D (with PH)
1412	P4-5790	Soft Excavation to 2nd strut level	42	42	30-Jan-24	16-Mar-24	42	0%	ND/2019/02 - 6D (with PH)
1413	P4-5800	Installation of strut S2	44	44	06-Feb-24	26-Mar-24	42	0%	ND/2019/02 - 6D (with PH)
1414	P4-5810	Soft Excavation to F.L.	39	39	16-Feb-24	28-Mar-24	42	0%	ND/2019/02 - 6D (with PH)
1415	P4-5820	Bedding and Pipe Laying (Twins DN700)	20	20	18-Mar-24	12-Apr-24	42	0%	ND/2019/02 - 6D (with PH)
1416	P4-5825	RC Works Inspection Chamber and Air Valve Chamber	36	36	18-Mar-24	30-Apr-24	65	0%	ND/2019/02 - 6D (with PH)
1417	P4-5830	Backfilling of drain to at grade level	45	45	06-Apr-24	25-May-24	42	0%	ND/2019/02 - 6D (with PH)
1418	**Gang 5**		167	97	11-Feb-23 A	15-Aug-23	297	41.92%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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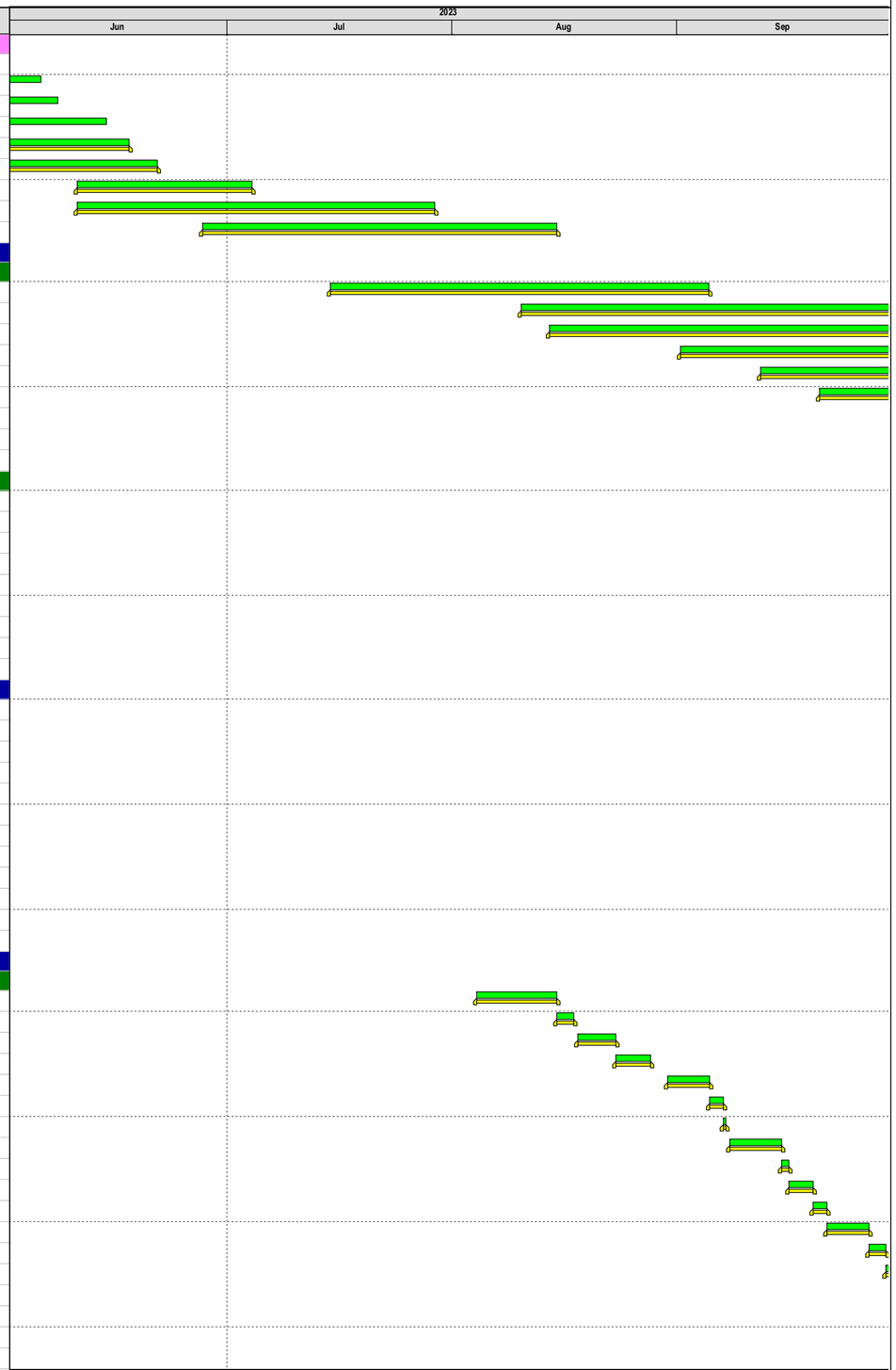
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1419		**Rising Main CHB867 to CHB974 (107M) Gang 5-1**	167	97	11-Feb-23 A	15-Aug-23	297	41.92%	ND/2019/02 - 6D (with PH)
1420	P4-6330	Sheet Pile Installation for open trench	49	3	11-Feb-23 A	05-May-23	297	92.97%	ND/2019/02 - 6D (with PH)
1421	P4-6340	Soft Excavation to 1st strut level	57	31	04-Mar-23 A	05-Jun-23	297	44.83%	ND/2019/02 - 6D (with PH)
1422	P4-6350	Installation of strut S1	56	34	08-Mar-23 A	07-Jun-23	297	38.49%	ND/2019/02 - 6D (with PH)
1423	P4-6360	Soft Excavation to 2nd strut level	42	40	29-Mar-23 A	14-Jun-23	297	3.7%	ND/2019/02 - 6D (with PH)
1424	P4-6370	Installation of strut S2	44	44	02-May-23	17-Jun-23	297	0%	ND/2019/02 - 6D (with PH)
1425	P4-6380	Soft Excavation to F.L.	39	39	10-May-23	21-Jun-23	297	0%	ND/2019/02 - 6D (with PH)
1426	P4-6390	Bedding and Pipe Laying (Twins DN700)	20	20	10-Jun-23	04-Jul-23	297	0%	ND/2019/02 - 6D (with PH)
1427	P4-6395	RC Works Inspection Chamber and Air Valve Chamber	45	45	10-Jun-23	29-Jul-23	306	0%	ND/2019/02 - 6D (with PH)
1428	P4-6400	Backfilling of drain to at grade level	45	45	27-Jun-23	15-Aug-23	297	0%	ND/2019/02 - 6D (with PH)
1429		**NS 250 PE Pipe Installation (From KT6.03A to KT6.01)**	279	279	15-Jul-23	21-May-24	47	0%	ND/2019/02 - 6D (with PH)
1430		**Sewer Pipeline FMH_KT6.03A to FMH_KT6.02A (Gang 5-1)**	153	153	15-Jul-23	28-Dec-23	47	0%	ND/2019/02 - 6D (with PH)
1431	P4-6240	Sheet Pile Installation for open trench	49	49	15-Jul-23*	05-Sep-23	47	0%	ND/2019/02 - 6D (with PH)
1432	P4-6250	Soft Excavation to 1st strut level	57	57	10-Aug-23	11-Oct-23	47	0%	ND/2019/02 - 6D (with PH)
1433	P4-6260	Installation of strut S1	58	58	14-Aug-23	16-Oct-23	47	0%	ND/2019/02 - 6D (with PH)
1434	P4-6270	Soft Excavation to 2nd strut level	42	42	01-Sep-23	18-Oct-23	47	0%	ND/2019/02 - 6D (with PH)
1435	P4-6280	Installation of strut S2	44	44	12-Sep-23	31-Oct-23	47	0%	ND/2019/02 - 6D (with PH)
1436	P4-6290	Soft Excavation to F.L.	39	39	20-Sep-23	03-Nov-23	47	0%	ND/2019/02 - 6D (with PH)
1437	P4-6300	Bedding and Pipe Laying (NS 250 PE Pipe)	20	20	24-Oct-23	14-Nov-23	47	0%	ND/2019/02 - 6D (with PH)
1438	P4-6305	RC Works of KT6.03A	45	45	24-Oct-23	11-Dec-23	56	0%	ND/2019/02 - 6D (with PH)
1439	P4-6310	Backfilling of drain to at grade level	45	45	09-Nov-23	28-Dec-23	47	0%	ND/2019/02 - 6D (with PH)
1440		**Sewer Pipeline FMH_KT6.02A to FMH_KT6.01 (Gang 5-2)**	126	126	28-Dec-23	21-May-24	47	0%	ND/2019/02 - 6D (with PH)
1441	P4-6160	Sheet Pile Installation for open trench	49	49	28-Dec-23	22-Feb-24	47	0%	ND/2019/02 - 6D (with PH)
1442	P4-6170	Soft Excavation to 1st strut level	57	57	16-Jan-24	19-Mar-24	47	0%	ND/2019/02 - 6D (with PH)
1443	P4-6180	Installation of strut S1	58	58	18-Jan-24	22-Mar-24	47	0%	ND/2019/02 - 6D (with PH)
1444	P4-6190	Soft Excavation to 2nd strut level	42	42	29-Jan-24	16-Mar-24	47	0%	ND/2019/02 - 6D (with PH)
1445	P4-6200	Installation of strut S2	44	44	08-Feb-24	02-Apr-24	47	0%	ND/2019/02 - 6D (with PH)
1446	P4-6210	Soft Excavation to F.L.	39	39	21-Feb-24	06-Apr-24	47	0%	ND/2019/02 - 6D (with PH)
1447	P4-6220	Bedding and Pipe Laying (NS 250 PE Pipe)	20	20	18-Mar-24	12-Apr-24	47	0%	ND/2019/02 - 6D (with PH)
1448	P4-6225	RC Works of KT6.02A and KT6.01	45	45	18-Mar-24	09-May-24	51	0%	ND/2019/02 - 6D (with PH)
1449	P4-6230	Backfilling of drain to at grade level	45	45	27-Mar-24	21-May-24	47	0%	ND/2019/02 - 6D (with PH)
1450		**Rising Main Installation by Pipe Jacking CHB493 to CHB514 (21M)**	534	176	31-Oct-22 A	18-Jun-24	46	67.03%	ND/2019/02 - 6D (with PH)
1451	P4-5405	Tentative Completion Date of Ho Sheung Heung Pai Lau	0	0		31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1452	P4-5407	Haul Road Modification	29	0	16-Dec-22 A	20-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1453	P4-5410	Site Setup, Set up TTA & Plant Mobilization	14	14	01-Dec-23*	15-Dec-23	46	0%	ND/2019/02 - 6D (with PH)
1454	P4-5420	Instrumentation Installation and Monitoring Works	6	6	15-Dec-23	21-Dec-23	46	0%	ND/2019/02 - 6D (with PH)
1455	P4-5430	ELS for Launching Pit (3 layers of strut)	38	38	22-Dec-23	03-Feb-24	46	0%	ND/2019/02 - 6D (with PH)
1456	P4-5440	ELS for Receiving Pit (3 layers of strut)	38	38	22-Dec-23	03-Feb-24	46	0%	ND/2019/02 - 6D (with PH)
1457	P4-5460	Set up and Assembly TBM (2.1m dia.)	38	38	03-Feb-24	18-Mar-24	46	0%	ND/2019/02 - 6D (with PH)
1458	P4-5470	Pipe Jacking from CHB493 to CHB514 (20m, 2.7m/day)	10	10	18-Mar-24	28-Mar-24	46	0%	ND/2019/02 - 6D (with PH)
1459	P4-5480	Removal of TBM	21	21	28-Mar-24	24-Apr-24	46	0%	ND/2019/02 - 6D (with PH)
1460	P4-5490	Rising main pipe jacking & grouting	6	6	24-Apr-24	30-Apr-24	46	0%	ND/2019/02 - 6D (with PH)
1461	P4-5500	Construction of Switch Over chamber	18	18	30-Apr-24	21-May-24	46	0%	ND/2019/02 - 6D (with PH)
1462	P4-5510	Backfilling to at grade level	25	25	21-May-24	18-Jun-24	46	0%	ND/2019/02 - 6D (with PH)
1463		**Drainage Outfall constuction by Open Cut**	194	194	04-Aug-23	05-Mar-24	113	0%	ND/2019/02 - 6D (with PH)
1464		**Outfall_5105**	65	65	04-Aug-23	13-Oct-23	113	0%	ND/2019/02 - 6D (with PH)
1465	P4-OF1650	Removal of Grasscrete and concrete materials	10	10	04-Aug-23	15-Aug-23	113	0%	ND/2019/02 - 6D (with PH)
1466	P4-OF1660	Excavation to formation level	3	3	15-Aug-23	17-Aug-23	113	0%	ND/2019/02 - 6D (with PH)
1467	P4-OF1670	Laying of silt curtain and delivery of concrete block	5	5	18-Aug-23	23-Aug-23	113	0%	ND/2019/02 - 6D (with PH)
1468	P4-OF1680	Pour Concrete Blinding	4	4	23-Aug-23	28-Aug-23	113	0%	ND/2019/02 - 6D (with PH)
1469	P4-OF1690	Erect formwork for Vertical blinding for base slab shear key	5	5	30-Aug-23	05-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1470	P4-OF1700	Pour Concrete shear key blinding	2	2	05-Sep-23	07-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1471	P4-OF1710	Strip off formwork for shear key	1	1	07-Sep-23	07-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1472	P4-OF1720	Erect formwork for Shear key	7	7	08-Sep-23	15-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1473	P4-OF1730	Erect formwork for oufall base slab	1	1	15-Sep-23	16-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1474	P4-OF1740	Erect formwork for oufall Wall (1st side)	3	3	16-Sep-23	19-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1475	P4-OF1750	Rebar fixing for oufall base slab	2	2	19-Sep-23	21-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1476	P4-OF1760	Outfall Baseslab concreting	5	5	21-Sep-23	27-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1477	P4-OF1770	Dismantle Base slab Formwork	3	3	27-Sep-23	29-Sep-23	113	0%	ND/2019/02 - 6D (with PH)
1478	P4-OF1780	Rebar fixing for oufall Wall	4	4	29-Sep-23	06-Oct-23	113	0%	ND/2019/02 - 6D (with PH)
1479	P4-OF1790	Erect formwork for oufall Wall (2nd side)	3	3	06-Oct-23	10-Oct-23	113	0%	ND/2019/02 - 6D (with PH)
1480	P4-OF1800	Outfall Wall concreting	2	2	10-Oct-23	11-Oct-23	113	0%	ND/2019/02 - 6D (with PH)
1481	P4-OF1810	Dismantle Wall Formwork	2	2	12-Oct-23	13-Oct-23	113	0%	ND/2019/02 - 6D (with PH)
1482	P4-OF1850	Report Completion of Drainage works	0	0		13-Oct-23	113	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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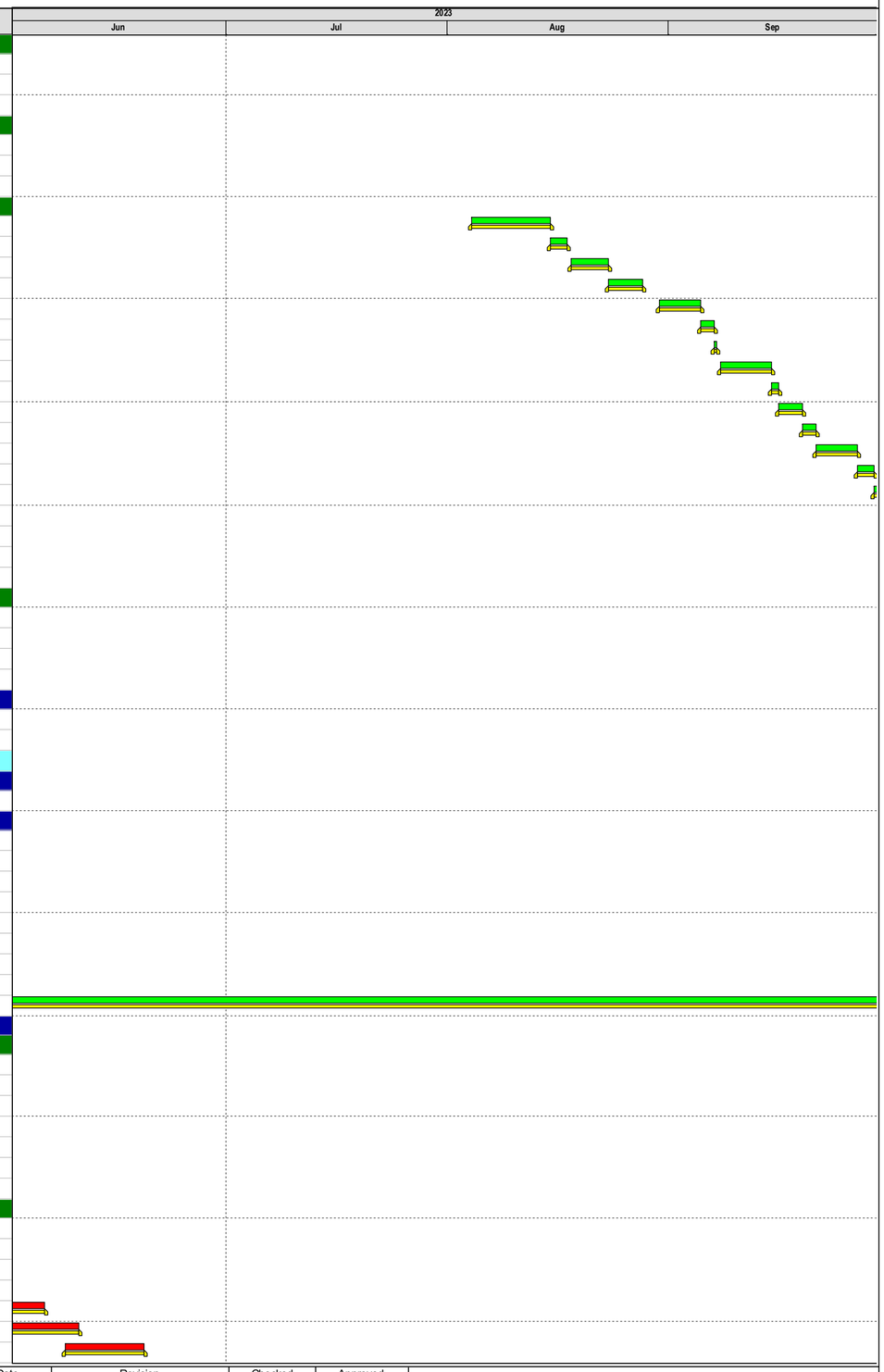
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1483		**Manhole SMH_KT5105**	67	67	13-Oct-23	27-Dec-23	113	0%	ND/2019/02 - 6D (with PH)
1484	P4-5060	Trench excavation between KT5105 and Outfall_5105 (30m)	21	21	13-Oct-23	06-Nov-23	113	0%	ND/2019/02 - 6D (with PH)
1485	P4-5070	Pipe Laying (2100 Concrete Pipe)	16	16	06-Nov-23	23-Nov-23	113	0%	ND/2019/02 - 6D (with PH)
1486	P4-5080	Manhole SMH_KT5105 Construction & Backfill	30	30	23-Nov-23	27-Dec-23	113	0%	ND/2019/02 - 6D (with PH)
1487		**Manhole SMH_KT5105A**	62	62	27-Dec-23	05-Mar-24	113	0%	ND/2019/02 - 6D (with PH)
1488	P4-5090	Trench excavation between KT5105 and Outfall_5015A (20m)	20	20	27-Dec-23	18-Jan-24	113	0%	ND/2019/02 - 6D (with PH)
1489	P4-5100	Pipe Laying (600 Concrete Pipe)	12	12	18-Jan-24	30-Jan-24	113	0%	ND/2019/02 - 6D (with PH)
1490	P4-5110	Manhole SMH_KT5105A Construction & Backfill	30	30	30-Jan-24	05-Mar-24	113	0%	ND/2019/02 - 6D (with PH)
1491		**Outfall_5104**	70	70	04-Aug-23	19-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1492	P4-OF1860	Removal of Grasscrete and concrete materials	10	10	04-Aug-23	15-Aug-23	197	0%	ND/2019/02 - 6D (with PH)
1493	P4-OF1870	Excavation to formation level	3	3	15-Aug-23	17-Aug-23	197	0%	ND/2019/02 - 6D (with PH)
1494	P4-OF1880	Laying of silt curtain and delivery of concrete block	5	5	18-Aug-23	23-Aug-23	197	0%	ND/2019/02 - 6D (with PH)
1495	P4-OF1890	Pour Concrete Blinding	4	4	23-Aug-23	28-Aug-23	197	0%	ND/2019/02 - 6D (with PH)
1496	P4-OF1900	Erect formwork for Vertical blinding for base slab shear key	5	5	30-Aug-23	05-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1497	P4-OF1910	Pour Concrete shear key blinding	2	2	05-Sep-23	07-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1498	P4-OF1920	Strip off formwork for shear key	1	1	07-Sep-23	07-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1499	P4-OF1930	Erect formwork for Shear key	7	7	08-Sep-23	15-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1500	P4-OF1940	Erect formwork for oufall base slab	1	1	15-Sep-23	16-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1501	P4-OF1950	Erect formwork for oufall Wall (1st side)	3	3	16-Sep-23	19-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1502	P4-OF1960	Rebar fixing for oufall base slab	2	2	19-Sep-23	21-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1503	P4-OF1970	Outfall Baseslab concreting	5	5	21-Sep-23	27-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1504	P4-OF1980	Dismantle Base slab Formwork	3	3	27-Sep-23	29-Sep-23	197	0%	ND/2019/02 - 6D (with PH)
1505	P4-OF1990	Rebar fixing for oufall Wall	4	4	29-Sep-23	06-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1506	P4-OF2000	Erect formwork for outfall Wall (2nd side)	3	3	06-Oct-23	10-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1507	P4-OF2010	Outfall Wall concreting	2	2	10-Oct-23	11-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1508	P4-OF2020	Dismantle Wall Formwork	2	2	12-Oct-23	13-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1509	P4-OF2050	Remove remining side sheet pile & rock fill	5	5	13-Oct-23	19-Oct-23	197	0%	ND/2019/02 - 6D (with PH)
1510		**Manhole SMH_KT5104**	40	40	19-Oct-23	01-Dec-23	197	0%	ND/2019/02 - 6D (with PH)
1511	P4-5120	Trench excavation between KT5104 and Outfall_5104 (30m)	16	16	19-Oct-23	06-Nov-23	197	0%	ND/2019/02 - 6D (with PH)
1512	P4-5130	Pipe Laying (900 Concrete Pipe)	8	8	06-Nov-23	14-Nov-23	197	0%	ND/2019/02 - 6D (with PH)
1513	P4-5140	Manhole SMH_KT5104 Construction & Backfill	16	16	14-Nov-23	01-Dec-23	197	0%	ND/2019/02 - 6D (with PH)
1514	P4-5145	Report Completion of Drainage works	0	0		01-Dec-23	197	0%	ND/2019/02 - 6D (with PH)
1515		**Reinstatement**	155	155	02-Jul-24	14-Dec-24	9	0%	ND/2019/02 - 6D (with PH)
1516	P4-5150	Utilities Works(Telecom & electricity)	95	95	02-Jul-24	12-Oct-24	9	0%	ND/2019/02 - 6D (with PH)
1517	P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	60	60	14-Oct-24	14-Dec-24	9	0%	ND/2019/02 - 6D (with PH)
1518		**Portion 5 - Sewage Rising Main**	1561	559	14-Apr-20 A	08-Jan-25	657	64.19%	ND/2019/02 - 6D (with PH)
1519		**Site Possession**	0	0	16-Apr-20 A	16-Apr-20 A		0%	ND/2019/02 - 6D (with PH)
1520	P5-1000	Possession of site - Portion 5	0	0	16-Apr-20 A			100%	ND/2019/02 - 6D (with PH)
1521		**Preparation Works**	1422	444	14-Apr-20 A	02-Sep-24	772	68.76%	ND/2019/02 - 6D (with PH)
1522	P5-1010	Utilities Detection in Portion 5	27	0	26-Jun-20 A	31-Jul-20 A		100%	ND/2019/02 - 6D (with PH)
1523	P5-1020	Inspection Pit	36	0	01-Aug-20 A	08-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
1524	P5-1030	Coordination with UU owner to arrange diversion / abandon / protection	27	0	10-Aug-20 A	17-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
1525	P5-1040	Provision of alternative Route / Preparation for TTA	16	0	18-Aug-20 A	08-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1526	P5-1050	Circulation & Approval of TTAs	18	0	08-Sep-20 A	03-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
1527	P5-5010	Application for the relocation of existing Board Band Cable and Street Light	95	0	11-Jul-22 A	01-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1528	P5-5015	Application of excavation Permit for the relocation of existing Board Band Cable and Street Light	95	0	11-Jul-22 A	01-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1529	P5-5020	Relocation work of existing Board Band Cable and Street Light	97	0	02-Dec-22 A	21-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1530	P5-5030	Tree Protection and Preservation	1422	444	14-Apr-20 A	02-Sep-24	772	68.76%	ND/2019/02 - 6D (with PH)
1531		**Sewage Rising Main Installation by Open Cut (CHB1056 to CHB 1557)**	743	499	02-Aug-22 A	02-Nov-24	-10	32.88%	ND/2019/02 - 6D (with PH)
1532		**CHB1200 - CHB1300 (100m)**	209	0	02-Aug-22 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1533	P5-2000	Sheet Pile Installation for open trench	43	0	02-Aug-22 A	20-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1534	P5-2010	Soft Excavation to 1st strut level	35	0	15-Aug-22 A	24-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1535	P5-2020	Installation of strut S1	26	0	01-Sep-22 A	03-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1536	P5-2050	Soft Excavation to F.L.	48	0	15-Sep-22 A	12-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1537	P5-2060	Bedding & Pipe Laying (Twins DN700)	20	0	10-Dec-22 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1538	P5-2065	RC Works Inspection Chamber and Air Valve Chamber	45	0	10-Dec-22 A	02-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1539	P5-2070	Backfilling to at grade level	45	0	01-Feb-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1540		**CHB1056 - CHB1102 (46m)**	118	86	22-Mar-23 A	03-Aug-23	-10	27.39%	ND/2019/02 - 6D (with PH)
1541	P5-2300	Sheet Pile Installation for open trench	15	7	22-Mar-23 A	09-May-23	-10	53.33%	ND/2019/02 - 6D (with PH)
1542	P5-2310	Soft Excavation to 1st strut level	15	10	25-Mar-23 A	11-May-23	-10	33.33%	ND/2019/02 - 6D (with PH)
1543	P5-2320	Installation of strut S1	20	20	02-May-23	22-May-23	-10	0%	ND/2019/02 - 6D (with PH)
1544	P5-2330	Soft Excavation to 2nd strut level	15	15	08-May-23	23-May-23	-10	0%	ND/2019/02 - 6D (with PH)
1545	P5-2340	Installation of strut S2	20	20	13-May-23	05-Jun-23	-10	0%	ND/2019/02 - 6D (with PH)
1546	P5-2350	Soft Excavation to F.L.	15	15	24-May-23	10-Jun-23	-10	0%	ND/2019/02 - 6D (with PH)
1547	P5-2360	Bedding and Pipe Laying (Twins DN700)	10	10	08-Jun-23	19-Jun-23	-10	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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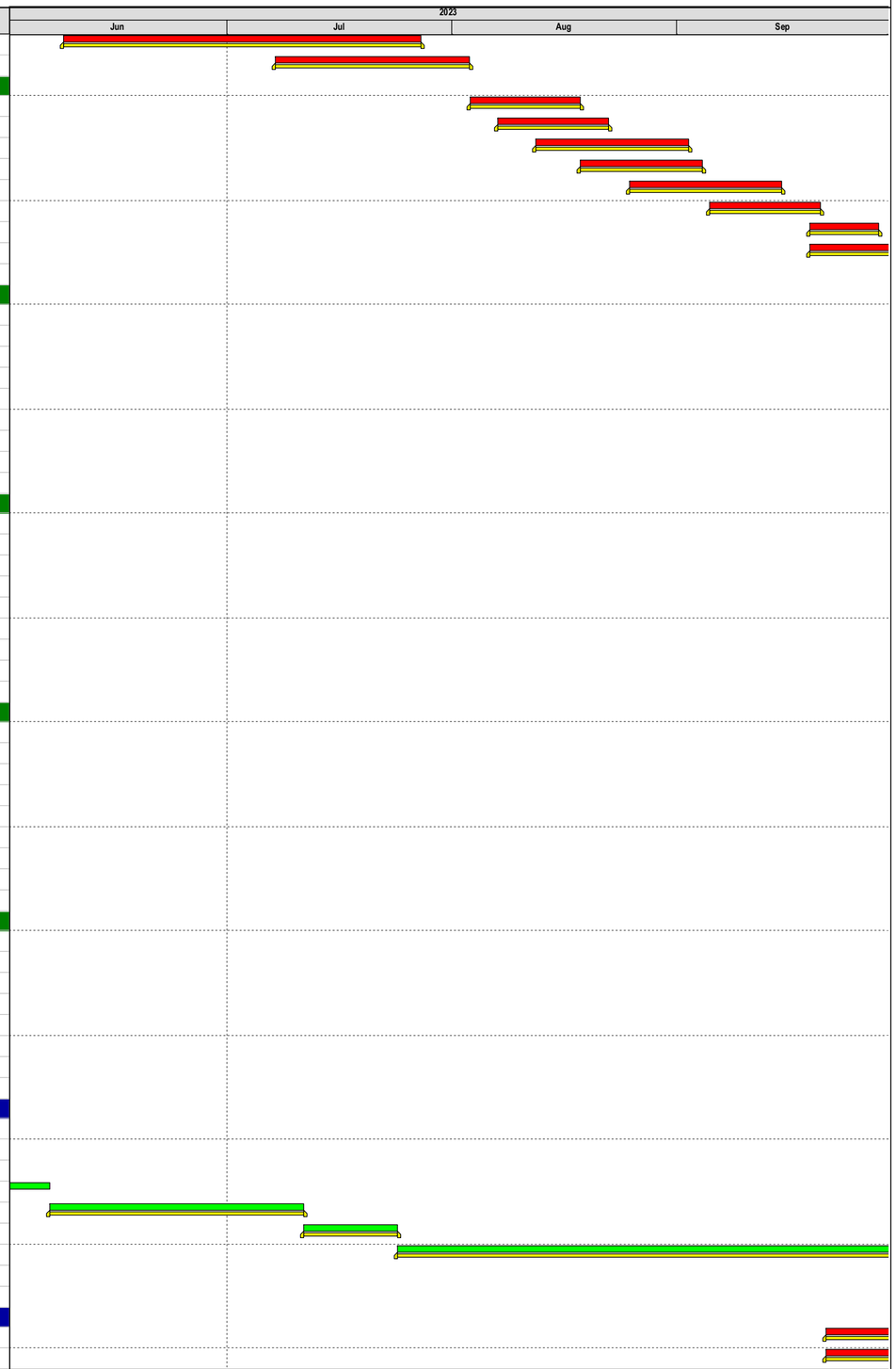
Programme Forecast (Jun-Jul-Aug-Sep 2023)

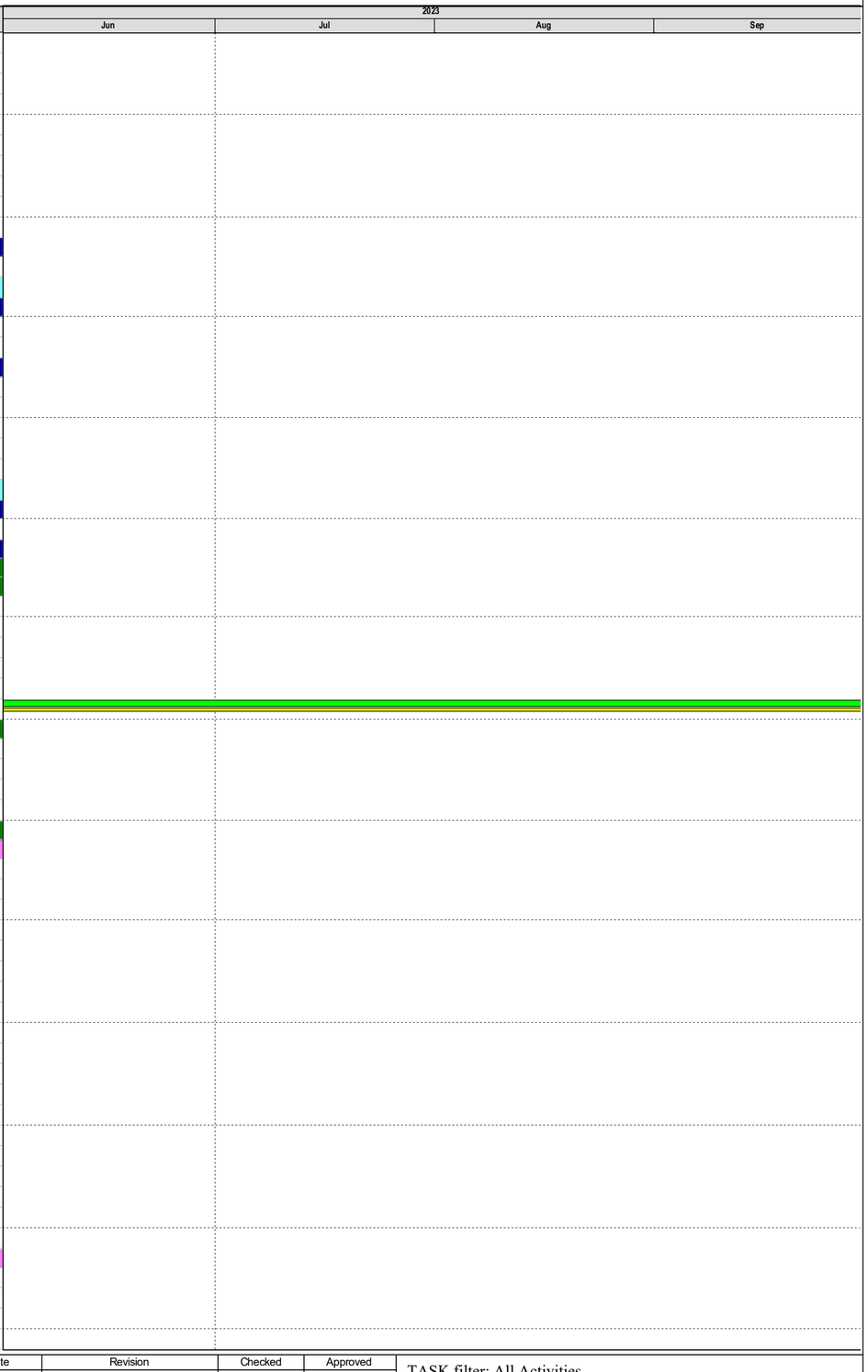
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1548	P5-2365	RC Works Inspection Chamber and Air Valve Chamber	45	45	08-Jun-23	27-Jul-23	-10	0%	ND/2019/02 - 6D (with PH)
1549	P5-2370	Backfilling to at grade level	25	25	07-Jul-23	03-Aug-23	-10	0%	ND/2019/02 - 6D (with PH)
1550	**CHB1102 - CHB1151 (49m)**		95	95	03-Aug-23	14-Nov-23	-10	0%	ND/2019/02 - 6D (with PH)
1551	P5-2100	Sheet Pile Installation for open trench	15	15	03-Aug-23	18-Aug-23	-10	0%	ND/2019/02 - 6D (with PH)
1552	P5-2110	Soft Excavation to 1st strut level	15	15	07-Aug-23	22-Aug-23	-10	0%	ND/2019/02 - 6D (with PH)
1553	P5-2120	Installation of strut S1	20	20	12-Aug-23	02-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1554	P5-2130	Soft Excavation to 2nd strut level	15	15	18-Aug-23	04-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1555	P5-2140	Installation of strut S2	20	20	25-Aug-23	15-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1556	P5-2150	Soft Excavation to F.L.	15	15	05-Sep-23	20-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1557	P5-2160	Bedding and Pipe Laying (Twins DN700)	10	10	19-Sep-23	28-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1558	P5-2165	RC Works Inspection Chamber and Air Valve Chamber	45	45	19-Sep-23	08-Nov-23	-10	0%	ND/2019/02 - 6D (with PH)
1559	P5-2170	Backfilling to at grade level	25	25	18-Oct-23	14-Nov-23	-10	0%	ND/2019/02 - 6D (with PH)
1560	**CHB1151 - CHB1200 (49m)**		95	95	14-Nov-23	29-Feb-24	-10	0%	ND/2019/02 - 6D (with PH)
1561	P5-2200	Sheet Pile Installation for open trench	15	15	14-Nov-23	30-Nov-23	-10	0%	ND/2019/02 - 6D (with PH)
1562	P5-2210	Soft Excavation to 1st strut level	15	15	17-Nov-23	04-Dec-23	-10	0%	ND/2019/02 - 6D (with PH)
1563	P5-2220	Installation of strut S1	20	20	24-Nov-23	14-Dec-23	-10	0%	ND/2019/02 - 6D (with PH)
1564	P5-2230	Soft Excavation to 2nd strut level	15	15	30-Nov-23	15-Dec-23	-10	0%	ND/2019/02 - 6D (with PH)
1565	P5-2240	Installation of strut S2	20	20	06-Dec-23	29-Dec-23	-10	0%	ND/2019/02 - 6D (with PH)
1566	P5-2250	Soft Excavation to F.L.	15	15	16-Dec-23	05-Jan-24	-10	0%	ND/2019/02 - 6D (with PH)
1567	P5-2260	Bedding & Pipe Laying (Twins DN700)	10	10	03-Jan-24	13-Jan-24	-10	0%	ND/2019/02 - 6D (with PH)
1568	P5-2265	RC Works Inspection Chamber and Air Valve Chamber	45	45	03-Jan-24	22-Feb-24	-10	0%	ND/2019/02 - 6D (with PH)
1569	P5-2270	Backfilling to at grade level	20	20	05-Feb-24	29-Feb-24	-10	0%	ND/2019/02 - 6D (with PH)
1570	**CHB1300 - CHB 1359 (59m)**		95	95	29-Feb-24	15-Jun-24	-10	0%	ND/2019/02 - 6D (with PH)
1571	P5-2400	Sheet Pile Installation for open trench	15	15	29-Feb-24	15-Mar-24	-10	0%	ND/2019/02 - 6D (with PH)
1572	P5-2410	Soft Excavation to 1st strut level	15	15	04-Mar-24	19-Mar-24	-10	0%	ND/2019/02 - 6D (with PH)
1573	P5-2420	Installation of strut S1	20	20	09-Mar-24	03-Apr-24	-10	0%	ND/2019/02 - 6D (with PH)
1574	P5-2430	Soft Excavation to 2nd strut level	15	15	15-Mar-24	05-Apr-24	-10	0%	ND/2019/02 - 6D (with PH)
1575	P5-2440	Installation of strut S2	20	20	22-Mar-24	17-Apr-24	-10	0%	ND/2019/02 - 6D (with PH)
1576	P5-2450	Soft Excavation to F.L.	15	15	06-Apr-24	22-Apr-24	-10	0%	ND/2019/02 - 6D (with PH)
1577	P5-2460	Bedding and Pipe Laying (Twins DN700)	10	10	20-Apr-24	30-Apr-24	-10	0%	ND/2019/02 - 6D (with PH)
1578	P5-2465	RC Works Inspection Chamber and Air Valve Chamber	45	45	20-Apr-24	08-Jun-24	-10	0%	ND/2019/02 - 6D (with PH)
1579	P5-2470	Backfilling to at grade level	25	25	20-May-24	15-Jun-24	-10	0%	ND/2019/02 - 6D (with PH)
1580	**CHB1359 - CHB 1478 (119m)**		164	164	14-Nov-23	18-May-24	16	0%	ND/2019/02 - 6D (with PH)
1581	P5-5035	Sheet Pile Installation for open trench	49	49	14-Nov-23	08-Jan-24	16	0%	ND/2019/02 - 6D (with PH)
1582	P5-5040	Soft Excavation to 1st strut level	57	57	11-Dec-23	15-Feb-24	16	0%	ND/2019/02 - 6D (with PH)
1583	P5-5050	Installation of strut S1	58	58	14-Dec-23	20-Feb-24	16	0%	ND/2019/02 - 6D (with PH)
1584	P5-5060	Soft Excavation to 2nd strut level	42	42	05-Jan-24	22-Feb-24	16	0%	ND/2019/02 - 6D (with PH)
1585	P5-5070	Installation of strut S2	44	44	16-Jan-24	05-Mar-24	16	0%	ND/2019/02 - 6D (with PH)
1586	P5-5080	Soft Excavation to F.L.	39	39	24-Jan-24	08-Mar-24	16	0%	ND/2019/02 - 6D (with PH)
1587	P5-5090	Bedding and Pipe Laying (Twins DN700)	20	20	27-Feb-24	19-Mar-24	16	0%	ND/2019/02 - 6D (with PH)
1588	P5-5095	RC Works Inspection Chamber and Air Valve Chamber	45	45	19-Mar-24	11-May-24	16	0%	ND/2019/02 - 6D (with PH)
1589	P5-5110	Backfilling to at grade level	20	20	25-Apr-24	18-May-24	16	0%	ND/2019/02 - 6D (with PH)
1590	**CHB1478 - CHB 1557 (79m)**		128	128	15-Jun-24	02-Nov-24	-10	0%	ND/2019/02 - 6D (with PH)
1591	P5-5115	Sheet Pile Installation for open trench	49	49	15-Jun-24	07-Aug-24	-10	0%	ND/2019/02 - 6D (with PH)
1592	P5-5120	Soft Excavation to 1st strut level	57	57	13-Jul-24	11-Sep-24	-10	0%	ND/2019/02 - 6D (with PH)
1593	P5-5130	Installation of strut S1	58	58	17-Jul-24	16-Sep-24	-10	0%	ND/2019/02 - 6D (with PH)
1594	P5-5140	Soft Excavation to 2nd strut level	42	42	05-Aug-24	19-Sep-24	-10	0%	ND/2019/02 - 6D (with PH)
1595	P5-5150	Installation of strut S2	44	44	15-Aug-24	02-Oct-24	-10	0%	ND/2019/02 - 6D (with PH)
1596	P5-5160	Soft Excavation to F.L.	39	39	23-Aug-24	05-Oct-24	-10	0%	ND/2019/02 - 6D (with PH)
1597	P5-5170	Bedding and Pipe Laying (Twins DN700)	20	20	24-Sep-24	17-Oct-24	-10	0%	ND/2019/02 - 6D (with PH)
1598	P5-5190	Backfilling to at grade level	20	20	12-Oct-24	02-Nov-24	-10	0%	ND/2019/02 - 6D (with PH)
1599	**Sewage Rising Main Installation across Sheung Yue River by Pipejacking**		326	216	24-Dec-22 A	21-Dec-23	273	33.74%	ND/2019/02 - 6D (with PH)
1600	P5-3020	ELS for Launching Pit (CHB 982) (4.5m x 3.5m; 5 layers of strut)	52	0	24-Dec-22 A	23-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1601	P5-3030	ELS for Receiving Pit (CHB 1046) (7m x 3.5m; 5 layers of strut)	52	0	11-Jan-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1602	P5-3040	TBM Available for delivery to Portion 5	0	0	28-Mar-23 A			100%	ND/2019/02 - 6D (with PH)
1603	P5-3050	Set up and Assembly TBM (2.1m dia.)	36	33	28-Mar-23 A	06-Jun-23	111	8.33%	ND/2019/02 - 6D (with PH)
1604	P5-3060	Pipe Jacking from CHB 982 to CHB 1046 (64m, 2.7m/day)	31	31	06-Jun-23	11-Jul-23	111	0%	ND/2019/02 - 6D (with PH)
1605	P5-3070	Removal of TBM (2.1m dia) & Transfer to Launching Pit at Shek Sheung River	12	12	11-Jul-23	24-Jul-23	111	0%	ND/2019/02 - 6D (with PH)
1606	P5-3080	Rising main pipe laying (3x80m long DN 700DI, 2.6m/day) & grouting	80	80	24-Jul-23	18-Oct-23	273	0%	ND/2019/02 - 6D (with PH)
1607	P5-3090	Construction of Switch Over chamber	20	20	18-Oct-23	09-Nov-23	273	0%	ND/2019/02 - 6D (with PH)
1608	P5-3100	Backfilling to at grade level	40	40	09-Nov-23	21-Dec-23	273	0%	ND/2019/02 - 6D (with PH)
1609	**Sewage Rising Main Installation across Shek Sheung River by Pipejacking**		387	387	21-Sep-23	23-Nov-24	22	0%	ND/2019/02 - 6D (with PH)
1610	P5-4000	Site Setup, Set up TTA & Plant Mobilization	24	24	21-Sep-23	18-Oct-23	0	0%	ND/2019/02 - 6D (with PH)
1611	P5-4010	Instrumentation Installation and Monitoring Works for MTRC Structures & Railway Track	24	24	21-Sep-23	18-Oct-23	0	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1612	P5-4020	ELS for Launching Pit (CHB 1569) (7m x 3.5m; 5 layers of strut)	40	40	19-Oct-23	30-Nov-23	0	0%	ND/2019/02 - 6D (with PH)
1613	P5-4030	ELS for Receiving Pit (CHB 1748) (6m x 4m; 5 layers of strut)	40	40	01-Dec-23	15-Jan-24	0	0%	ND/2019/02 - 6D (with PH)
1614	P5-4040	Set up and Assembly TBM - C1 (2.1m dia.)	38	38	16-Jan-24	28-Feb-24	54	0%	ND/2019/02 - 6D (with PH)
1615	P5-4050	Pipe Jacking between CHB 1569 to CHB 1700 (131m, 3m/day)	46	46	28-Feb-24	20-Apr-24	54	0%	ND/2019/02 - 6D (with PH)
1616	P5-4060	Pipe Jacking between CHB 1700 to CHB 1720 (TBM crossing MTRC East Rail) (20m, 0.5m/day)	40	40	20-Apr-24	04-Jun-24	54	0%	ND/2019/02 - 6D (with PH)
1617	P5-4070	Pipe Jacking between CHB 1720 to CHB 1748 (28m, 2.7m/day)	9	9	10-Jul-24	19-Jul-24	22	0%	ND/2019/02 - 6D (with PH)
1618	P5-4080	Removal of TBM - C1 (2.1m dia)	20	20	19-Jul-24	09-Aug-24	22	0%	ND/2019/02 - 6D (with PH)
1619	P5-4090	Rising main pipe laying (3x190m long DN700DI, 2.6m/day) & grouting	60	60	09-Aug-24	15-Oct-24	22	0%	ND/2019/02 - 6D (with PH)
1620	P5-4100	Construction of Switch Over chamber	20	20	15-Oct-24	05-Nov-24	22	0%	ND/2019/02 - 6D (with PH)
1621	P5-4110	Backfilling to at grade level	18	18	05-Nov-24	23-Nov-24	22	0%	ND/2019/02 - 6D (with PH)
1622	**Reinstatement**		60	60	02-Nov-24	08-Jan-25	-10	0%	ND/2019/02 - 6D (with PH)
1623	P5-5000	Underground Utilities & Road reinstatement with disturbed landscape area	60	60	02-Nov-24	08-Jan-25	-10	0%	ND/2019/02 - 6D (with PH)
1624	**Portion 6 - Sewage Discharge Manhole Type SSM1**		157	157	20-Jun-24	06-Dec-24	684	0%	ND/2019/02 - 6D (with PH)
1625	**Site Possession**		157	157	20-Jun-24	06-Dec-24	684	0%	ND/2019/02 - 6D (with PH)
1626	P6-1000	Possession of site - Portion 6	0	0	20-Jun-24		17	0%	ND/2019/02 - 6D (with PH)
1627	P6-1005	Tree Protection and Preservation	157	157	20-Jun-24	06-Dec-24	684	0%	ND/2019/02 - 6D (with PH)
1628	**Sewerage Works**		157	157	20-Jun-24	06-Dec-24	17	0%	ND/2019/02 - 6D (with PH)
1629	P6-1010	Site Setup and ELS of Receving Pit	27	27	20-Jun-24	19-Jul-24	17	0%	ND/2019/02 - 6D (with PH)
1630	P6-1020	Construction of Sewage Discharge Manhole SSM1 to +0.63mPD at CHB 1752	40	40	19-Jul-24	30-Aug-24	17	0%	ND/2019/02 - 6D (with PH)
1631	P6-1030	Construction of Sewage Discharge Manhole SSM1 at CHB 1752 to Road Level	40	40	30-Aug-24	15-Oct-24	17	0%	ND/2019/02 - 6D (with PH)
1632	P6-1040	Joint Inspection with others for connection to sewer pipe	16	16	15-Oct-24	31-Oct-24	17	0%	ND/2019/02 - 6D (with PH)
1633	P6-1050	Reinstatement of disturbed landscape area	34	34	31-Oct-24	06-Dec-24	17	0%	ND/2019/02 - 6D (with PH)
1634	**Portion 7 - Kwu Tung North Sewage Pumping station**		1907	905	03-Aug-20 A	22-Oct-25	439	52.55%	
1635	**Site Poession**		0	0	03-Aug-20 A	03-Aug-20 A		0%	ND/2019/02 - 6D (with PH)
1636	P7-1000	Possession of site - Portion 7	0	0	03-Aug-20 A			100%	ND/2019/02 - 6D (with PH)
1637	**Sewage Pumping Station**		1907	905	03-Aug-20 A	22-Oct-25	439	52.55%	
1638	**Submission**		0	0			0	0%	
1639	**Site Preparation**		1327	450	03-Aug-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
1640	P7-1001	Temporary haul road	27	0	26-Aug-20 A	30-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1641	P7-1004	Initial Site Set Up and mobilizatoin (Temp. Power & Water, Wet Set, Wheel Wash facility)	16	0	05-Sep-20 A	01-Feb-21 A		100%	ND/2019/02 - 6D (with PH)
1642	P7-1005	Installation of Dull Green Barrier / Hoarding	18	0	22-Dec-20 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
1643	P7-1010	Environmental GI & Submission of Lap Report (PS:1.138)	21	0	21-Sep-20 A	30-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
1644	P7-1030	Borehole (1 nos.), Submission & Approval of GI Report	59	0	21-Nov-20 A	30-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
1645	P7-1040	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	99	66.06%	ND/2019/02 - 6D (with PH)
1646	**Foundation**		270	0	15-Oct-20 A	01-Sep-21 A		100%	
1647	P7-2000	Pre-Drilling (~11nos.)	16	0	15-Oct-20 A	30-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
1648	P7-2010	Install H-pile (62 nos.; 8 nos. / month /rig, 1 rig)	165	0	14-Dec-20 A	26-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
1649	P7-2020	Pile Load Test	28	0	17-Aug-21 A	30-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
1650	P7-2030	Proof Drilling	6	0	30-Aug-21 A	01-Sep-21 A		100%	7-Day Workweek
1651	**Excavation**		488	0	27-Jun-21 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1652	**1st Stage**		304	0	27-Jun-21 A	02-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1653	P7-2900	Installation of King Posts (4nos.)	12	0	27-Jun-21 A	09-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
1654	P7-3000	Sheetpile installation (~135m; approx. 675nos;)	21	0	15-Sep-21 A	23-Sep-21 A		100%	ND/2019/02 - 6D (with PH)
1655	P7-3020	Stop Works Instruction from PM (MTRC Complaints Issue)	12	0	24-Sep-21 A	08-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
1656	P7-3110	Sheetpile installation (~135m; approx. 675nos;)	117	0	09-Oct-21 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1657	P7-3115	Soft Excavation from +5.5mPD to 1st strut level (+3.8mPD for Portion 1 & 2) (~500cu.m)	6	0	22-Jan-22 A	31-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
1658	P7-3117	Installation of strut S1 (+4.5mPD for for Portion 1 & 2)	10	0	08-Feb-22 A	19-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1659	P7-3118	Works Impacted by adverse weather (17 to 23-Feb-22)	6	0	17-Feb-22 A	23-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1660	P7-3118.2	Site resuming works after adverse weather	4	0	24-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
1661	P7-3119	Soft Excavation to 2nd strut level (+1.47mPD for Portion 1 & 2, ~600cu.m)	6	0	01-Mar-22 A	07-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1662	P7-3120	Installation of strut S2 (+2.2mPD for for Portion 1 & 2)	9	0	08-Mar-22 A	17-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1663	P7-3123	Inclement Weather on 23-Mar-2022	1	0	23-Mar-22 A	23-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
1664	P7-3124	Excavate down to level suit for driving Middle Part Sheet Pile Wall	6	0	31-Mar-22 A	07-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1665	P7-3125	Sheetpile Installation for Middle part wall (~24m; approx. 60nos)	15	0	08-Apr-22 A	16-May-22 A		100%	ND/2019/02 - 6D (with PH)
1666	P7-3125.2	Inclement Weather on 11 to 13 May 2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
1667	P7-3125.4	Cut and Fill of slope to form platform for installation of strut at Portion 4,5	8	0	09-Apr-22 A	18-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1668	P7-3125.5	Installation of strut S1 (+4.5mPD) at Portion 5	7	0	19-Apr-22 A	26-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
1669	P7-3125.6	Soft Excavation to FEL (-0.3mPD for Portion 1 & 2, ~600cu.m)	7	0	26-Apr-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
1670	P7-3125.71	Inclement weather on 27-May-22	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1671	P7-3125.8	Blinding Casting of Portion 1 & 2	1	0	02-Jun-22 A	02-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1672	**2nd Stage Portion 3-6 1st level (+4.5mPD)**		54	0	14-May-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1673	P7-3126.2	Cut and Fill of slope to form platform for installation of strut at Portion 3	3	0	14-May-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
1674	P7-3126.21	Inclement weather on 27-May-22	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1675	P7-3126.3	Installation of strut at Portion 3 (+4.5mPD)	6	0	28-May-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1676	P7-3127	Soft Excavation and extend the slope to Portion 4 (600cu m)	14	0	20-May-22 A	06-Jun-22 A		100%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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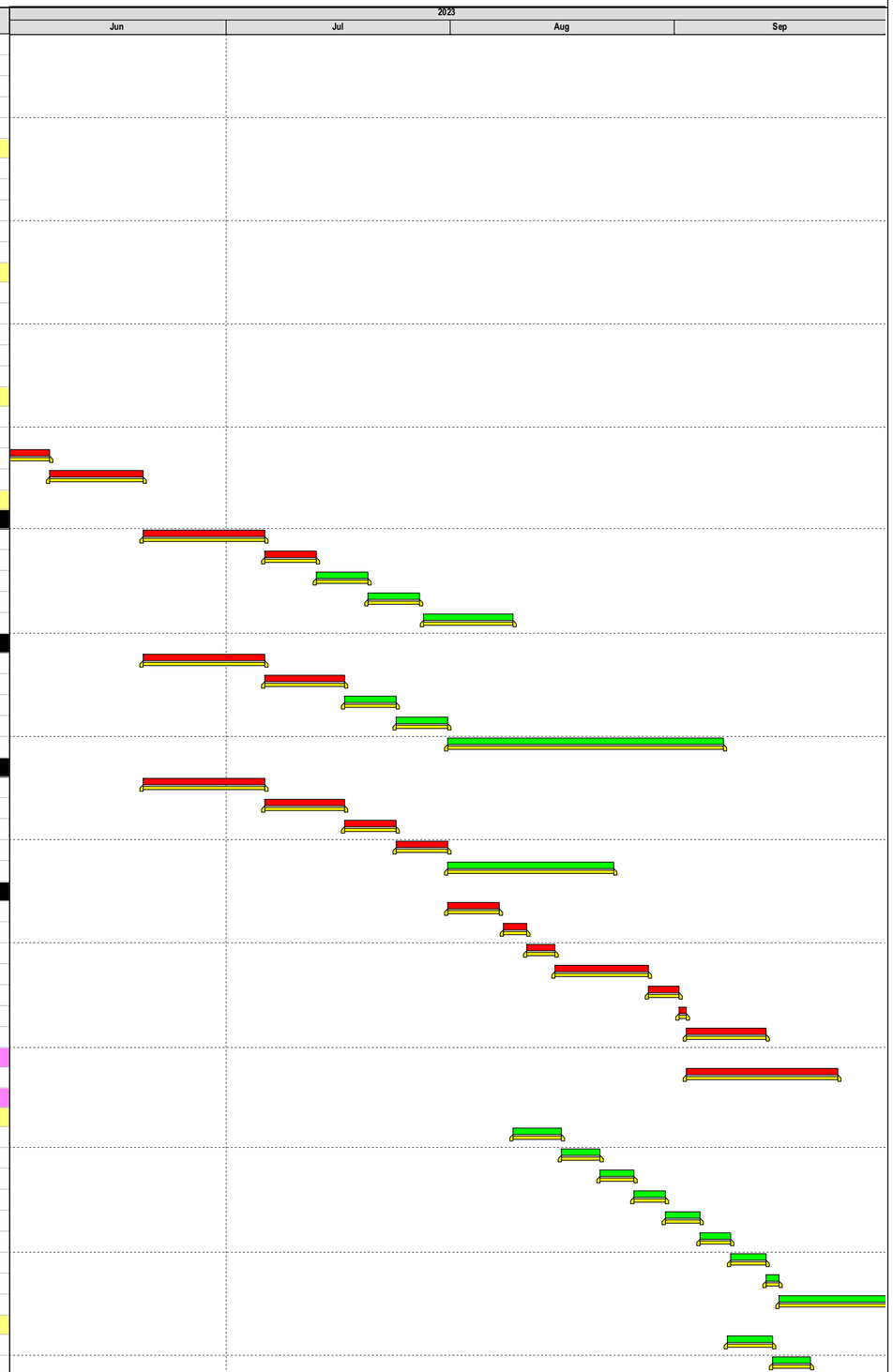
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1677	P7-3130	Installation of strut S1 (+4.5mPD) at Portion 4	18	0	20-May-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1678	P7-3250	Soft Excavation and extend the slope to Portion 6 (200cu m)	7	0	11-Jun-22 A	18-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1679	P7-3260	Installation of strut S1 (+4.5mPD) at Portion 6	6	0	04-Jul-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1680	**3rd Stage Portion 3-6 2nd level (+2.2mPD)**		34	0	01-Jun-22 A	22-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1681	P7-3130.1	Soft Excavation to 2nd level of strut at Portion 3 (+1.47mPD)	6	0	01-Jun-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1682	P7-3131	Installation of 2nd level of strut at Portion 3 (+2.2mPD)	7	0	02-Jun-22 A	13-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1683	P7-3132	Soft Excavation to 2nd strut level (+1.47mPD) at Portion 4 to 6 (~980cu.m)	6	0	13-Jun-22 A	18-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1684	P7-3132.1	Installation of 2nd level of strut at Portion 4-6 (+2.2mPD)	31	0	16-Jun-22 A	22-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1685	**4th Stage Portion 3-6 3rd level (-0.5mPD)**		30	0	14-Jun-22 A	18-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1686	P7-3160	Soft Excavation from +1.47mPD to -1.5mPD at Portion 3 (~1730 cu.m)	6	0	14-Jun-22 A	20-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1687	P7-3170	Installation of strut S3 (-0.5mPD) at Portion 3	7	0	25-Jul-22 A	01-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1688	P7-3180	Soft Excavation from +1.47mPD to -1.5mPD at Portion 4 (~1730 cu.m)	6	0	23-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1689	P7-3190	Installation of strut S3 (-0.5mPD) at Portion 4	20	0	27-Jul-22 A	18-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1690	P7-3200	Soft Excavation from +1.47mPD to -1.5mPD at Portion 5-6	6	0	01-Aug-22 A	06-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1691	P7-3210	Installation of strut S3 (-0.5mPD) at Portion 5-6	7	0	08-Aug-22 A	15-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1692	**5th Stage Portion 3-4**		48	0	08-Aug-22 A	20-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1693	**Grout Curtain**		48	0	23-Aug-22 A	20-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1694	P7-3162	Plant mobilization of Grout Curtain Installation	0	0	23-Aug-22 A			100%	ND/2019/02 - 6D (with PH)
1695	P7-3164	Drilling and Installation of TAM Pipe with Sleeve Grout (GHA1 to GHA11: 11nos)	6	0	24-Aug-22 A	30-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1696	P7-3166	Inject Bentonite Cement Grout	2	0	09-Sep-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1697	P7-3167	Inject Chemical Grout	2	0	12-Sep-22 A	13-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1698	P7-3168	Drilling and Installation of TAM Pipe with Sleeve Grout (GHB to GHC : 23nos)	7	0	03-Sep-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1699	P7-4190	Inject Bentonite Cement Grout	4	0	12-Sep-22 A	15-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1700	P7-4200	Inject Chemical Grout	4	0	16-Sep-22 A	20-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
1701	**Excavation**		23	0	08-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1702	P7-3220	Soft Excavation from -1.5mPD to -2.5mPD at Portion 3 (~600 cu.m)	7	0	08-Aug-22 A	15-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1703	P7-3280	Soft Excavation from -1.5mPD to -2.5mPD at Portion 4(~600 cu.m)	7	0	16-Aug-22 A	23-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1704	P7-3300	Soft Excavation from -1.5mPD to -2.5mPD at Portion 5-6(~600 cu.m)	7	0	24-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1705	**6th Stage Portion 3-4 5th & 5a level (-4.3mPD & -5.9mPD)**		82	0	03-Oct-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1706	P7-3320	Soft Excavation from -2.5mPD to -4.8mPD at Portion 3-6	7	0	03-Oct-22 A	13-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1707	P7-3330	Installation of strut S5 (-4.3mPD) at Portion 3	11	0	08-Nov-22 A	01-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1708	P7-3500	Soft Excavation from -4.8mPD to -6.4mPD at Portion 3	7	0	02-Dec-22 A	09-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1709	P7-3505	Installation of Corner Strut (-5.9mPD) at Portion 3	4	0	10-Dec-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1710	P7-3507	Soft Excavation from -6.4mPD to -7.785mPD at Portion 3	2	0	02-Dec-22 A	09-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1711	P7-3510	Concrete Blinding at Portion 3	1	0	09-Dec-22 A	09-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1712	**Station Structure**		636	316	12-May-22 A	15-Apr-24	900	50.35%	ND/2019/02 - 6D (with PH)
1713	**Basement to G/F Wall & G/F Slab**		445	125	12-May-22 A	13-Sep-23	1091	71.91%	ND/2019/02 - 6D (with PH)
1714	**+1.55mPD (1st Pour)**		275	0	12-May-22 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1715	P7-BF1270	Grout Breaking of Socket H Piles (12nos)	2	0	17-May-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
1716	P7-BF1270.15	Inclement weather on 27-May-22	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
1717	P7-BF1270.25	Inclement weather on 6 to 9-Jun-22	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1718	P7-BF1270.35	Inclement weather on 11-Jun-22	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1719	P7-BF1280	Cutting Pile Head and Capping Plate Installation	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1720	P7-BF1280.1	Inclement weather on 15-Jun-22	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1721	P7-BF1280.2	Con't Cutting Pile Head and Capping Plate Installation	12	0	16-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
1722	P7-BF1280.3	Inclement weather on 30-Jun-22	1	0	12-May-22 A	12-May-22 A		100%	ND/2019/02 - 6D (with PH)
1723	P7-BF1280.4	Recovery Works after Inclement weather	3	0	02-Jul-22 A	05-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1724	P7-BF1330	Rebar fixing of basement Slab	15	0	09-Jul-22 A	22-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1725	P7-BF1340	Base Slab Shutters	6	0	23-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1726	P7-BF1340-1	Inclement weather on 30-Jul-22	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
1727	P7-BF1340-2	Inclement weather on 1-Aug-22	1	0	01-Aug-22 A	01-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1728	P7-BF1340-3	Inclement weather on 3 to 5-Aug-22	3	0	03-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1729	P7-BF1350	Base Slab (+1.55mPD) Concreting (+2.7mPD) (312m3)	1	0	08-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
1730	P7-BF1360	Welding for steel channel for facilitating the dismantle of Strut S1 & S2	9	0	18-Oct-22 A	27-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1731	P7-BF1370	Dismantle of strut S2 at +2.2mPD & strut S1 at +4.5mPD	14	0	28-Oct-22 A	12-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
1732	P7-BF1380	Falsework Erection for Grid A Wall construction	15	0	02-Dec-22 A	19-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1733	P7-BF1390	Formwork and Rebar Fixing of Grid A Wall	10	0	20-Dec-22 A	31-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1734	P7-BF1400	Grid A Wall Concreting (1st Pour up to +4.5mPD)	1	0	04-Jan-23 A	04-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1735	P7-BF2180	Falsework Erection for Grid A Wall construction	8	0	16-Feb-23 A	24-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1736	P7-BF2190	Formwork and Rebar Fixing of Grid A Wall	10	0	25-Feb-23 A	07-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1737	P7-BF2200	Grid A Wall Concreting (1st Pour up to +7.65mPD with Cantilever Slab)	1	0	08-Mar-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1738	**-2.05mPD (1st Pour)**		90	0	14-Oct-22 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1739	P7-BF2100	Concrete Blinding at Portion 5 & 6	1	0	14-Oct-22 A	14-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1740	P7-BF2110	Grout Breaking Pile Head treatment and of Socket H Piles (24nos)	6	0	15-Oct-22 A	21-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
1741	P7-BF2115	Capping Plate Installation (24nos)	10	0	07-Nov-22 A	24-Nov-22 A		100%	ND/2019/02 - 6D (with PH)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1742	P7-BF2120	Rebar fixing of basement Slab	16	0	24-Nov-22 A	12-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1743	P7-BF2130	Formwork and Base Slab Shutters	5	0	13-Dec-22 A	17-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1744	P7-BF2130-1	Request for RC details for basement slab for construction	30	0	21-Nov-22 A	24-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1745	P7-BF2130-2	Rebar fixing resued of basement Slab	18	0	27-Dec-22 A	17-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1746	P7-BF2140	Base Slab & Wall Kickers Concreting (-2.05mPD) (460M3)	1	0	19-Jan-23 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1747	**-6.21mPD**		50	0	19-Dec-22 A	15-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1748	P7-BF0900	Grout Breaking of Socket H Piles (18nos)	5	0	19-Dec-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
1749	P7-BF1000	Low Level Pile Head treatment and Capping Plate Installation	6	0	24-Dec-22 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
1750	P7-BF1050	Rebar fixing of basement Slab (1.5m thk)	12	0	01-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1751	P7-BF1060	Base Slab Shutters	7	0	07-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1752	P7-BF1070	Base Slab Concreting (1st Bay, -6.21mPD) (340M3)	1	0	15-Feb-23 A	15-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1753	**-2.05mPD (2nd Pour)**		68	2	16-Feb-23 A	03-May-23	-20	97.04%	ND/2019/02 - 6D (with PH)
1754	P7-BF1080	Dismantling base slab formwork and soil backfill to -4.15mPD with testing	10	0	16-Feb-23 A	27-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
1755	P7-BF1090	Dismantle of strut S5 & S4	14	0	28-Feb-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1756	P7-BF1170	Rebar fixing of basement Slab	12	0	14-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
1757	P7-BF1180	Base Slab Shutters	5	1	27-Mar-23 A	02-May-23	-20	80%	ND/2019/02 - 6D (with PH)
1758	P7-BF1190	Base Slab, Wall of wet well and wall Kickers for screen chamber Concreting (-2.05mPD to -0.5mPD)	1	1	02-May-23	03-May-23	-20	0%	ND/2019/02 - 6D (with PH)
1759	**+1.55mPD (2nd Pour)**		43	43	03-May-23	19-Jun-23	-20	0%	ND/2019/02 - 6D (with PH)
1760	P7-BF2000	Dismantling base slab formwork and soil backfill to -0.5mPD with testing	10	10	03-May-23	13-May-23	-20	0%	ND/2019/02 - 6D (with PH)
1761	P7-BF2010	Dismantle of strut S3 at -0.5mPD	7	7	13-May-23	22-May-23	-20	0%	ND/2019/02 - 6D (with PH)
1762	P7-BF2060	Remove Intermediate Sheet Pile separating Portion 1,2 & 3	14	14	22-May-23	06-Jun-23	-20	0%	ND/2019/02 - 6D (with PH)
1763	P7-BF2070	Construct Remaining Portion of +1.55mPD B/F Slab (137m3)	12	12	06-Jun-23	19-Jun-23	-20	0%	ND/2019/02 - 6D (with PH)
1764	**+7.50mPD (G/F Slab)**		80	80	19-Jun-23	13-Sep-23	42	0%	ND/2019/02 - 6D (with PH)
1765	**Bay 1**		47	47	19-Jun-23	09-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1766	P7-BF1401	Backfill & Dismantle of strut S2 at +2.2mPD	14	14	19-Jun-23	06-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1767	P7-BF1403	Wall Extend to +4.5mPD along Grid A & B	7	7	06-Jul-23	13-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1768	P7-BF1405	Backfill to +4.5mPD	7	7	13-Jul-23	20-Jul-23	43	0%	ND/2019/02 - 6D (with PH)
1769	P7-BF1409	Dismantle of Strut S1 at +4.5mPD	7	7	20-Jul-23	27-Jul-23	43	0%	ND/2019/02 - 6D (with PH)
1770	P7-BF2150	Wall & Slab Construction (along Grid B up to +7.65mPD)	12	12	28-Jul-23	09-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1771	**Bay 2**		75	75	19-Jun-23	07-Sep-23	12	0%	ND/2019/02 - 6D (with PH)
1772	P7-BF1423	Backfill & Dismantle of strut S2 at +2.2mPD	14	14	19-Jun-23	06-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1773	P7-BF1425	Wall Extend to +4.5mPD along Grid B & C	10	10	06-Jul-23	17-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1774	P7-BF1437	Backfill to +4.5mPD	7	7	17-Jul-23	24-Jul-23	12	0%	ND/2019/02 - 6D (with PH)
1775	P7-BF1439	Dismantle of Strut S1 at +4.5mPD	7	7	24-Jul-23	31-Jul-23	12	0%	ND/2019/02 - 6D (with PH)
1776	P7-BF2160	Ground Beam & Slab Construction (along Grid B to D)	37	37	31-Jul-23	07-Sep-23	12	0%	ND/2019/02 - 6D (with PH)
1777	**Bay 3**		60	60	19-Jun-23	23-Aug-23	62	0%	ND/2019/02 - 6D (with PH)
1778	P7-BF1433	Dismantle of strut S2 at +2.2mPD	14	14	19-Jun-23	06-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1779	P7-BF1435	Wall Extend to +4.5mPD along Grid D & F	10	10	06-Jul-23	17-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1780	P7-BF1440	Backfill to +4.5mPD	7	7	17-Jul-23	24-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1781	P7-BF1447	Dismantle of Strut S1 at +4.5mPD	7	7	24-Jul-23	31-Jul-23	-20	0%	ND/2019/02 - 6D (with PH)
1782	P7-BF2170	Wall & Slab Construction (along Grid D to E)	22	22	31-Jul-23	23-Aug-23	62	0%	ND/2019/02 - 6D (with PH)
1783	**Bay 4**		42	42	31-Jul-23	13-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1784	P7-BF1445	Soil backfill to +5.35mPD with testing	7	7	31-Jul-23	07-Aug-23	-20	0%	ND/2019/02 - 6D (with PH)
1785	P7-BF1465	Grout Breaking of Socket H Piles (8nos)	4	4	08-Aug-23	11-Aug-23	-20	0%	ND/2019/02 - 6D (with PH)
1786	P7-BF1475	Low Level Pile Head treatment and Capping Plate Installation	3	3	11-Aug-23	15-Aug-23	-20	0%	ND/2019/02 - 6D (with PH)
1787	P7-BF1525	Rebar fixing of basement Slab	12	12	15-Aug-23	28-Aug-23	-20	0%	ND/2019/02 - 6D (with PH)
1788	P7-BF1535	Base Slab Shutters	5	5	28-Aug-23	01-Sep-23	-20	0%	ND/2019/02 - 6D (with PH)
1789	P7-BF1545	Concreting of Base Slab (+7.5mPD)	1	1	01-Sep-23	02-Sep-23	-20	0%	ND/2019/02 - 6D (with PH)
1790	P7-BF1555	Backfill to +7.5mPD at the side of Base slab	10	10	02-Sep-23	13-Sep-23	-10	0%	ND/2019/02 - 6D (with PH)
1791	**Tx Room Double Slab at +12.55mPD**		20	20	02-Sep-23	23-Sep-23	-20	0%	ND/2019/02 - 6D (with PH)
1792	P7-Tx1000	Construction of Tx Rm Double Slab at +12.55mPD	20	20	02-Sep-23	23-Sep-23	-20	0%	ND/2019/02 - 6D (with PH)
1793	**Roof Slab**		224	224	09-Aug-23	15-Apr-24	-113	0%	ND/2019/02 - 6D (with PH)
1794	**Bay 1**		68	68	09-Aug-23	21-Oct-23	43	0%	ND/2019/02 - 6D (with PH)
1795	P7-RF1000	Erection of falsework and working platform for G/F to R/F wall	6	6	09-Aug-23	16-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1796	P7-RF1010	Erection of One Side Formwork for G/F to R/F Wall	5	5	16-Aug-23	21-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1797	P7-RF1020	Rebar Fixing for G/F to R/F Wall	5	5	21-Aug-23	26-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1798	P7-RF1030	Erection of remaining side formwork for G/F to R/F Wall	4	4	26-Aug-23	30-Aug-23	43	0%	ND/2019/02 - 6D (with PH)
1799	P7-RF1040	Erection of falsework and working platform for R/F Slab	4	4	30-Aug-23	04-Sep-23	43	0%	ND/2019/02 - 6D (with PH)
1800	P7-RF1050	Erection of Formwork for R/F Slab	5	5	04-Sep-23	08-Sep-23	43	0%	ND/2019/02 - 6D (with PH)
1801	P7-RF1060	Rebar Fixing for R/F Slab	4	4	08-Sep-23	13-Sep-23	43	0%	ND/2019/02 - 6D (with PH)
1802	P7-RF1070	R/F Slab Shutters	2	2	13-Sep-23	15-Sep-23	43	0%	ND/2019/02 - 6D (with PH)
1803	P7-RF1080	R/F Slab & G/F to R/F wall Concreting	33	33	15-Sep-23	21-Oct-23	43	0%	ND/2019/02 - 6D (with PH)
1804	**Bay 2**		37	37	08-Sep-23	19-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1805	P7-RF1090	Erection of falsework and working platform for G/F to R/F wall	6	6	08-Sep-23	14-Sep-23	12	0%	ND/2019/02 - 6D (with PH)
1806	P7-RF1100	Erection of One Side Formwork for G/F to R/F Wall	5	5	14-Sep-23	19-Sep-23	12	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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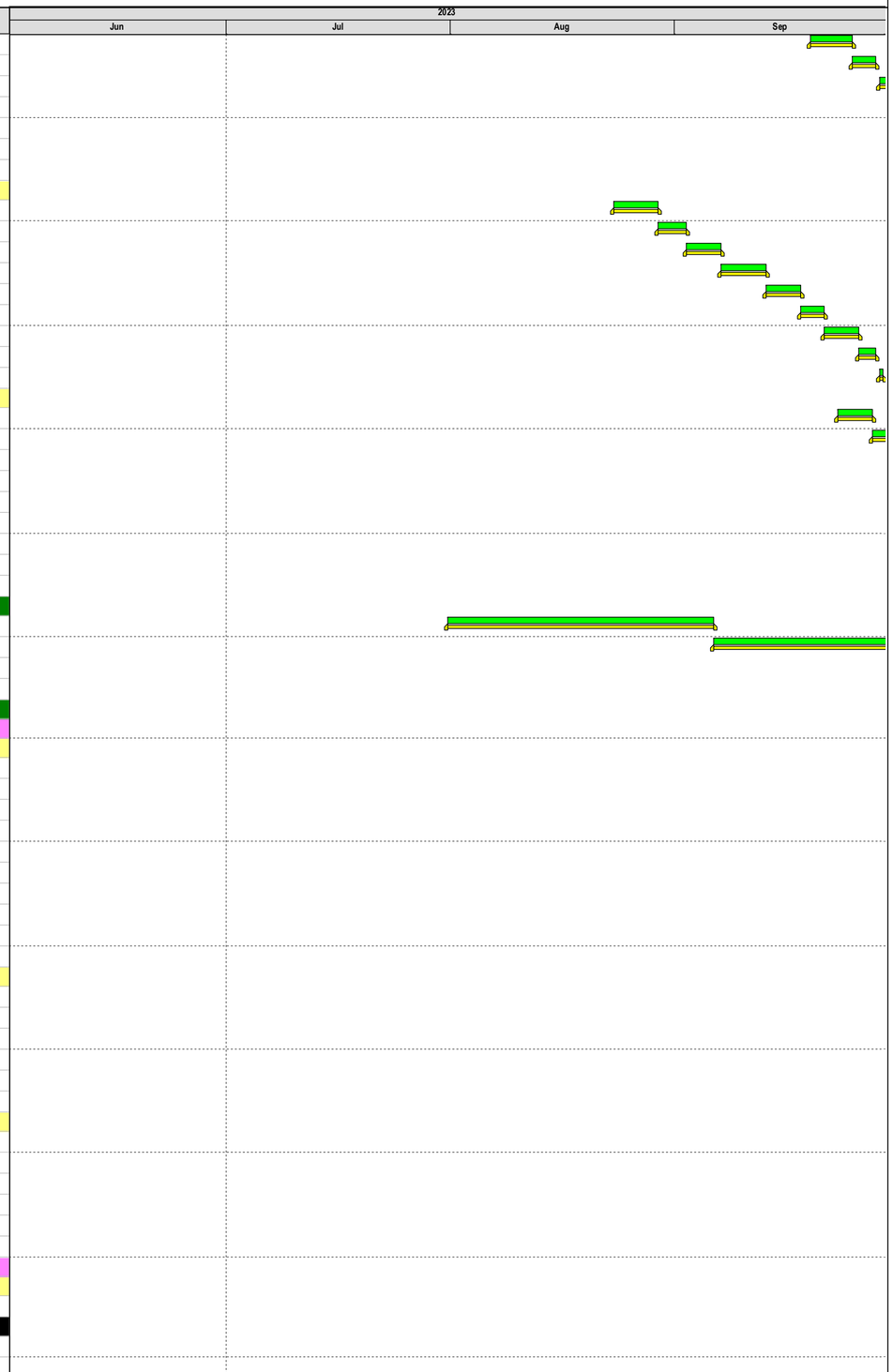
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1807	P7-RF1110	Rebar Fixing for G/F to R/F Wall	5	5	19-Sep-23	25-Sep-23	12	0%	ND/2019/02 - 6D (with PH)
1808	P7-RF1120	Erection of remaining side formwork for G/F to R/F Wall	4	4	25-Sep-23	28-Sep-23	12	0%	ND/2019/02 - 6D (with PH)
1809	P7-RF1130	Erection of falsework and working platform for R/F Slab	4	4	29-Sep-23	05-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1810	P7-RF1140	Erection of Formwork for R/F Slab	5	5	05-Oct-23	11-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1811	P7-RF1150	Rebar Fixing for R/F Slab	5	5	11-Oct-23	16-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1812	P7-RF1160	R/F Slab Shutters	2	2	16-Oct-23	18-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1813	P7-RF1170	R/F Slab & G/F to R/F wall Concreting	1	1	18-Oct-23	19-Oct-23	12	0%	ND/2019/02 - 6D (with PH)
1814	**Bay 3**		36	36	23-Aug-23	29-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1815	P7-RF1180	Erection of falsework and working platform for G/F to R/F wall	6	6	23-Aug-23	29-Aug-23	62	0%	ND/2019/02 - 6D (with PH)
1816	P7-RF1190	Erection of One Side Formwork for G/F to R/F Wall	4	4	29-Aug-23	02-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1817	P7-RF1200	Rebar Fixing for G/F to R/F Wall	4	4	02-Sep-23	07-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1818	P7-RF1210	Erection of remaining side formwork for G/F to R/F Wall	6	6	07-Sep-23	13-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1819	P7-RF1220	Erection of falsework and working platform for R/F Slab	4	4	13-Sep-23	18-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1820	P7-RF1230	Erection of Formwork for R/F Slab	4	4	18-Sep-23	21-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1821	P7-RF1240	Rebar Fixing for R/F Slab	4	4	21-Sep-23	26-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1822	P7-RF1250	R/F Slab Shutters	3	3	26-Sep-23	28-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1823	P7-RF1260	R/F Slab & G/F to R/F wall Concreting	1	1	29-Sep-23	29-Sep-23	62	0%	ND/2019/02 - 6D (with PH)
1824	**Bay 4**		181	181	23-Sep-23	15-Apr-24	-113	0%	ND/2019/02 - 6D (with PH)
1825	P7-RF1270	Erection of falsework and working platform for G/F to R/F wall	4	4	23-Sep-23	28-Sep-23	39	0%	ND/2019/02 - 6D (with PH)
1826	P7-RF1280	Erection of One Side Formwork for G/F to R/F Wall	4	4	28-Sep-23	04-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1827	P7-RF1290	Rebar Fixing for G/F to R/F Wall	4	4	04-Oct-23	09-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1828	P7-RF1300	Erection of remaining side formwork for G/F to R/F Wall	4	4	09-Oct-23	12-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1829	P7-RF1310	Erection of falsework and working platform for R/F Slab	5	5	12-Oct-23	18-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1830	P7-RF1320	Erection of Formwork for R/F Slab	2	2	18-Oct-23	20-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1831	P7-RF1330	Rebar Fixing for R/F Slab	3	3	20-Oct-23	24-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1832	P7-RF1340	R/F Slab Shutters	2	2	24-Oct-23	26-Oct-23	39	0%	ND/2019/02 - 6D (with PH)
1833	P7-RF1350	R/F Slab & G/F to R/F wall Concreting	1	1	15-Apr-24	15-Apr-24	-113	0%	ND/2019/02 - 6D (with PH)
1834	**Retaining Wall & U trough**		124	124	31-Jul-23	12-Dec-23	22	0%	ND/2019/02 - 6D (with PH)
1835	P7-RW1209	Construction of U Trough RC Structure wall (KW08 Type B)(Wall Founding level +5.6mPD)	35	35	31-Jul-23	06-Sep-23	22	0%	ND/2019/02 - 6D (with PH)
1836	P7-RW1211	Soil backfill From +5.3mPD to +6.2mPD with testing	30	30	06-Sep-23	10-Oct-23	22	0%	ND/2019/02 - 6D (with PH)
1837	P7-RW1213	Construction of U Trough RC Structure wall (KW08 Type A)(Wall Founding level +6.2mPD)	45	45	10-Oct-23	27-Nov-23	22	0%	ND/2019/02 - 6D (with PH)
1838	P7-RW1214	Backfill to formation level to +7.5mPD	30	30	10-Nov-23	12-Dec-23	22	0%	ND/2019/02 - 6D (with PH)
1839	**ABWF/ E&M Works**		551	551	17-Oct-23	20-Jun-25	-253	0%	ND/2019/02 - 6D (with PH)
1840	**Basement Floor**		222	222	17-Oct-23	22-Jun-24	20	0%	ND/2019/02 - 6D (with PH)
1841	**Valve Chamber**		125	125	22-Nov-23	12-Apr-24	74	0%	ND/2019/02 - 6D (with PH)
1842	P7-VC0900	Dismantling Falsework from R/F to B/F	12	12	22-Nov-23	04-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1843	P7-VC1000	Access Date of Valve Chamber Builders works	0	0	05-Dec-23		48	0%	ND/2019/02 - 6D (with PH)
1844	P7-VC1005	Concrete Defect Repairing	5	5	05-Dec-23	09-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1845	P7-VC1100	Concrete Plinth for resting the twins rising mains	7	7	09-Dec-23	16-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1846	P7-VC1200	Waterproofing works of Valve Chamber	4	4	16-Dec-23	21-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1847	P7-VC1210	Flooding Test and Infra Red test after waterproofing	4	4	21-Dec-23	27-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1848	P7-VC1220	Floor Screed	1	1	28-Dec-23	28-Dec-23	48	0%	ND/2019/02 - 6D (with PH)
1849	P7-VC1225	Erect working platform from +1.55mPD to +7.65mPD for Steel Staircase Installation	12	12	28-Dec-23	11-Jan-24	48	0%	ND/2019/02 - 6D (with PH)
1850	P7-VC1227	Steel Staircase Installation (+1.55mPD to +4.35mPD)	10	10	11-Jan-24	22-Jan-24	48	0%	ND/2019/02 - 6D (with PH)
1851	P7-VC1230	Twins rising mains Installation with connection to wet well and outside external area	70	70	22-Jan-24	12-Apr-24	74	0%	ND/2019/02 - 6D (with PH)
1852	**Wet Well**		138	138	17-Oct-23	18-Mar-24	94	0%	ND/2019/02 - 6D (with PH)
1853	P7-WW1000	Access Date of Wet Well Builders works	0	0	17-Oct-23		134	0%	ND/2019/02 - 6D (with PH)
1854	P7-WW1100	Scaffolding and working platform modification	5	5	17-Oct-23	21-Oct-23	134	0%	ND/2019/02 - 6D (with PH)
1855	P7-WW1110	Wall and Ceiling Waterproofing, testing and screeding	9	9	24-Oct-23	02-Nov-23	134	0%	ND/2019/02 - 6D (with PH)
1856	P7-WW1120	Submersible Sewerage Pump Installation and Pipe Connection to Valve Chamber	40	40	11-Jan-24	26-Feb-24	70	0%	ND/2019/02 - 6D (with PH)
1857	P7-WW1130	Cat Ladder Installation	10	10	26-Feb-24	07-Mar-24	94	0%	ND/2019/02 - 6D (with PH)
1858	P7-WW1140	Filling of Void of wet well	10	10	07-Mar-24	18-Mar-24	94	0%	ND/2019/02 - 6D (with PH)
1859	**Screen Chamber & Retention Tank**		201	201	09-Nov-23	22-Jun-24	20	0%	ND/2019/02 - 6D (with PH)
1860	P7-SC1000	Access Date of Screen Chamber Builders works	0	0	09-Nov-23		156	0%	ND/2019/02 - 6D (with PH)
1861	P7-SC1010	Scaffolding and working platform erection	10	10	09-Nov-23	20-Nov-23	156	0%	ND/2019/02 - 6D (with PH)
1862	P7-SC1020	Wall and Ceiling Waterproofing and testing	10	10	20-Nov-23	30-Nov-23	156	0%	ND/2019/02 - 6D (with PH)
1863	P7-SC1030	Pipe work Installation and Bar Screen Installation	25	25	30-Nov-23	28-Dec-23	156	0%	ND/2019/02 - 6D (with PH)
1864	P7-SC1040	Cat Ladder / Penstock Installation	10	10	28-Dec-23	09-Jan-24	156	0%	ND/2019/02 - 6D (with PH)
1865	P7-SC1050	T&C for Basement Floor Equipment	10	10	12-Jun-24	22-Jun-24	20	0%	ND/2019/02 - 6D (with PH)
1866	**Ground Floor**		536	536	03-Nov-23	20-Jun-25	-271	0%	ND/2019/02 - 6D (with PH)
1867	**Tx Room / Switch Room**		197	197	03-Nov-23	12-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)
1868	P7-Tx3000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	0	03-Nov-23		-20	0%	ND/2019/02 - 6D (with PH)
1869	**ABWF**		83	83	03-Nov-23	01-Feb-24	11	0%	ND/2019/02 - 6D (with PH)
1870	P7-Tx3010	Setting Out	2	2	03-Nov-23	04-Nov-23	-19	0%	ND/2019/02 - 6D (with PH)
1871	P7-Tx3020	Access Date of Tx Room Double Slab Builders works	0	0	03-Nov-23		-20	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1872	P7-Tx3025	Formwork dismantling and touch up works	6	6	03-Nov-23	09-Nov-23	-20	0%	ND/2019/02 - 6D (with PH)
1873	P7-Tx3030	Waterproofing works of Tx Room Double Slab	6	6	09-Nov-23	15-Nov-23	-20	0%	ND/2019/02 - 6D (with PH)
1874	P7-Tx3040	Flooding Test and Infra Red test after waterproofing	6	6	15-Nov-23	22-Nov-23	-20	0%	ND/2019/02 - 6D (with PH)
1875	P7-Tx3050	Erect Scaffolding for wall and ceiling finishes of Tx Rm	3	3	04-Nov-23	08-Nov-23	-19	0%	ND/2019/02 - 6D (with PH)
1876	P7-Tx3060	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	09-Nov-23	22-Nov-23	-20	0%	ND/2019/02 - 6D (with PH)
1877	P7-Tx3070	Wall Finishes (Wall plastering, Lourve Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	12	12	22-Nov-23	04-Dec-23	-20	0%	ND/2019/02 - 6D (with PH)
1878	P7-Tx3080	Cable Trench Plastering	12	12	28-Nov-23	11-Dec-23	-20	0%	ND/2019/02 - 6D (with PH)
1879	P7-Tx3090	Cable Trench Angle Frame Installation	7	7	11-Dec-23	18-Dec-23	-20	0%	ND/2019/02 - 6D (with PH)
1880	P7-Tx3100	Floor Screeding	5	5	18-Dec-23	23-Dec-23	-20	0%	ND/2019/02 - 6D (with PH)
1881	P7-Tx3110	Metal Door Frame Installation	3	3	23-Dec-23	28-Dec-23	11	0%	ND/2019/02 - 6D (with PH)
1882	P7-Tx3120	Ceiling And Wall Painting (Final Coat)	6	6	28-Dec-23	05-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1883	P7-Tx3130	Chequer Plate Installation	6	6	05-Jan-24	11-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1884	P7-Tx3135	Lourves Installation	2	2	05-Jan-24	08-Jan-24	15	0%	ND/2019/02 - 6D (with PH)
1885	P7-Tx3140	Painting to Chequer Plate	5	5	11-Jan-24	17-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1886	P7-Tx3150	Floor Dust Proof Coating	10	10	17-Jan-24	27-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1887	P7-Tx3160	Durasteel Installation to Air Duct	3	3	27-Jan-24	30-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1888	P7-Tx3170	Metal Door Leaf Installation	2	2	30-Jan-24	01-Feb-24	11	0%	ND/2019/02 - 6D (with PH)
1889	**BS Works**		149	149	23-Dec-23	12-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)
1890	**Electrical Works**		66	66	23-Dec-23	08-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1891	P7-Tx3190	Intallation (Electrical) of Conduit at Tx Room	4	4	23-Dec-23	29-Dec-23	-20	0%	ND/2019/02 - 6D (with PH)
1892	P7-Tx3200	Cable Wiring at Tx Room	3	3	29-Dec-23	03-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1893	P7-Tx3210	Installation of Light Fitting at Tx Room	4	4	03-Jan-24	08-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1894	P7-Tx3220	Delivery of Cable Tray	3	3	08-Jan-24	10-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1895	P7-Tx3230	Installation of Cable Tray over ceiling	6	6	10-Jan-24	17-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1896	P7-Tx3240	Intallation (Electrical) of Conduit at Switch Room	5	5	17-Jan-24	22-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1897	P7-Tx3250	Cable Wiring at Switch Room	5	5	22-Jan-24	27-Jan-24	-20	0%	ND/2019/02 - 6D (with PH)
1898	P7-Tx3260	Installation of Light Fitting at Switch Room	5	5	27-Jan-24	01-Feb-24	-20	0%	ND/2019/02 - 6D (with PH)
1899	P7-Tx3270	FAT of Switchboard	3	3	01-Feb-24	05-Feb-24	-20	0%	ND/2019/02 - 6D (with PH)
1900	P7-Tx3280	Delivery and assembly of Switchboard at Switch Room	23	23	05-Feb-24	04-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1901	P7-Tx3290	SAT of Switchboard	1	1	04-Mar-24	04-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1902	P7-Tx3300	Installation of MCB Board	4	4	17-Jan-24	20-Jan-24	-8	0%	ND/2019/02 - 6D (with PH)
1903	P7-Tx3310	Installation of Earthing System at Tx Room and Switch Room	5	5	20-Jan-24	26-Jan-24	-8	0%	ND/2019/02 - 6D (with PH)
1904	P7-Tx3320	System T&C (Electrical Works)	5	5	26-Jan-24	31-Jan-24	-8	0%	ND/2019/02 - 6D (with PH)
1905	P7-Tx3330	Installation of Lighting conductors	7	7	31-Jan-24	08-Feb-24	-8	0%	ND/2019/02 - 6D (with PH)
1906	P7-Tx3340	Installation of Lightning Pits	4	4	08-Feb-24	15-Feb-24	-8	0%	ND/2019/02 - 6D (with PH)
1907	P7-Tx3350	Installation of Earthing Pits	5	5	28-Feb-24	04-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1908	P7-Tx3360	Earthing and Lightning T&C	4	4	05-Mar-24	08-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1909	**MVAC Works**		28	28	23-Dec-23	25-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1910	P7-Tx3380	Intallation (MVAC) of Conduit at Tx Room	4	4	23-Dec-23	29-Dec-23	18	0%	ND/2019/02 - 6D (with PH)
1911	P7-Tx3390	Cable Wiring (MVAC) of Conduit at Tx Room	2	2	29-Dec-23	02-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1912	P7-Tx3400	Installation of Fan and Air Duct at Tx Room	5	5	02-Jan-24	08-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1913	P7-Tx3410	Installation of Fan Controller at Tx Room	3	3	08-Jan-24	10-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1914	P7-Tx3420	Installation of Fan and Air Duct at Switchroom	5	5	10-Jan-24	16-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1915	P7-Tx3430	Installation of LMCP at Switchroom	2	2	16-Jan-24	18-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1916	P7-Tx3440	System T&C (MVAC Works)	7	7	18-Jan-24	25-Jan-24	18	0%	ND/2019/02 - 6D (with PH)
1917	**FS Works**		35	35	23-Dec-23	01-Feb-24	11	0%	ND/2019/02 - 6D (with PH)
1918	P7-Tx3450	Intallation (FS) of Conduit at Tx Room	4	4	23-Dec-23	29-Dec-23	11	0%	ND/2019/02 - 6D (with PH)
1919	P7-Tx3460	Cable Wiring (FS) of Conduit at Tx Room	2	2	29-Dec-23	02-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1920	P7-Tx3470	Installation of Heat Detector at Tx Room	5	5	02-Jan-24	08-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1921	P7-Tx3480	Installation of (FS) Conduit at Switchroom	3	3	08-Jan-24	10-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1922	P7-Tx3490	Cable Wiring (FS) of Conduit at Switchroom	5	5	10-Jan-24	16-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1923	P7-Tx3500	Installation of Heat Detector at Switchroom	2	2	16-Jan-24	18-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1924	P7-Tx3510	Installation of AFA panel and audio / visual alarm equipment	7	7	18-Jan-24	25-Jan-24	11	0%	ND/2019/02 - 6D (with PH)
1925	P7-Tx3520	System T&C (FS Works)	7	7	25-Jan-24	01-Feb-24	11	0%	ND/2019/02 - 6D (with PH)
1926	**CLP works & Statutory Inspection**		83	83	08-Mar-24	12-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)
1927	P7-Tx3525	Submit WR1	6	6	08-Mar-24	14-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1928	P7-Tx3550	1st CLP Inspection of Tx Room	1	1	15-Mar-24	15-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1929	P7-Tx3560	1st Defect Rectification	6	6	15-Mar-24	22-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1930	P7-Tx3570	2nd CLP Inspection of Tx Room	1	1	22-Mar-24	23-Mar-24	-20	0%	ND/2019/02 - 6D (with PH)
1931	P7-Tx3580	2nd Defect Rectification	6	6	23-Mar-24	02-Apr-24	-20	0%	ND/2019/02 - 6D (with PH)
1932	P7-Tx3590	Handover Inspection with CLP	1	1	02-Apr-24	03-Apr-24	-20	0%	ND/2019/02 - 6D (with PH)
1933	P7-Tx3600	CLP Installation Works	60	60	03-Apr-24	08-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)
1934	P7-Tx3610	Energization of Tx Equipment	1	1	08-Jun-24	11-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)
1935	P7-Tx3620	CLP Meter Installation	1	1	11-Jun-24	12-Jun-24	-20	0%	ND/2019/02 - 6D (with PH)

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
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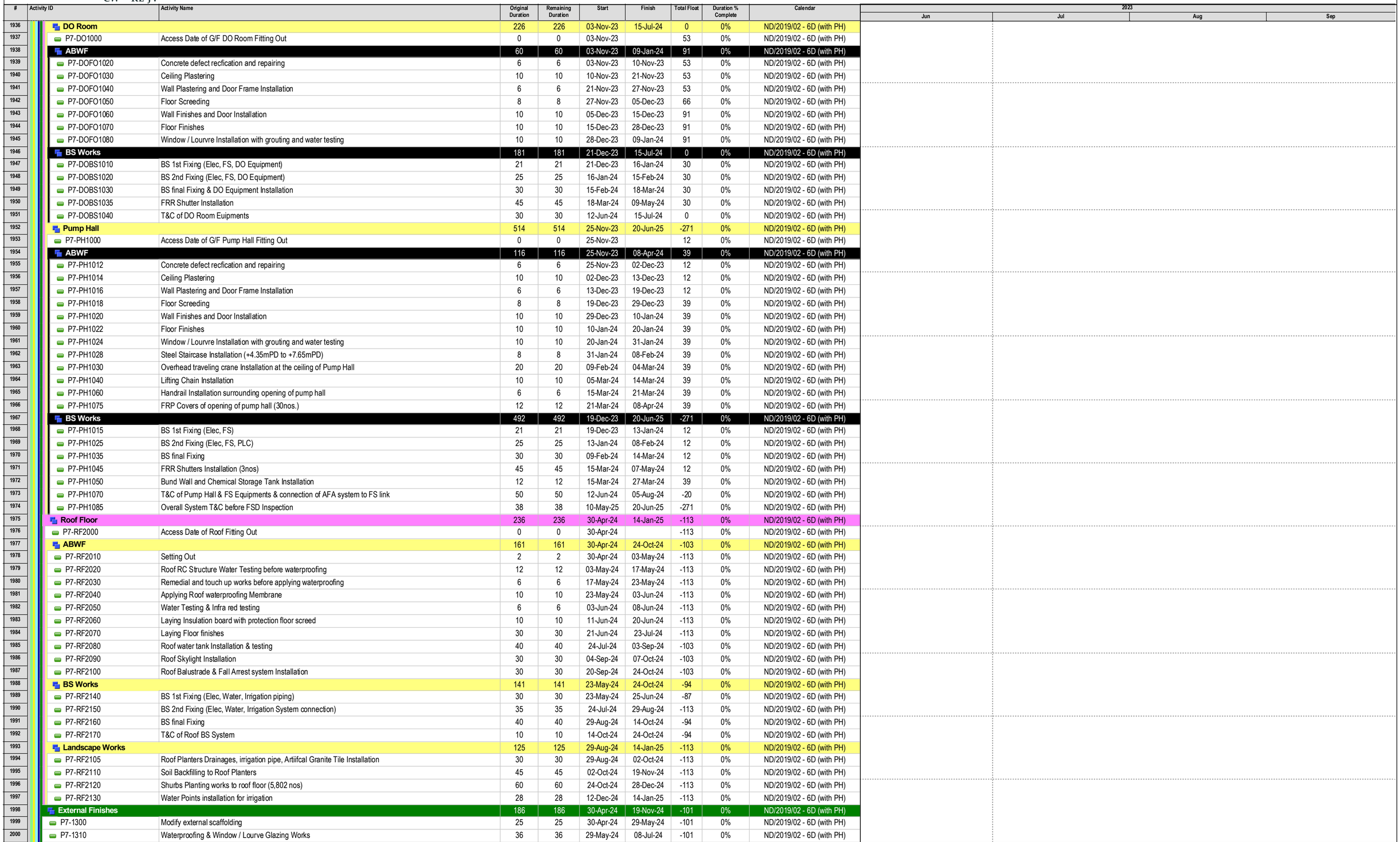
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
1936	**DO Room**		226	226	03-Nov-23	15-Jul-24	0	0%	ND/2019/02 - 6D (with PH)
1937	P7-DO1000	Access Date of G/F DO Room Fitting Out	0	0	03-Nov-23		53	0%	ND/2019/02 - 6D (with PH)
1938	**ABWF**		60	60	03-Nov-23	09-Jan-24	91	0%	ND/2019/02 - 6D (with PH)
1939	P7-DOFO1020	Concrete defect recfication and repairing	6	6	03-Nov-23	10-Nov-23	53	0%	ND/2019/02 - 6D (with PH)
1940	P7-DOFO1030	Ceiling Plastering	10	10	10-Nov-23	21-Nov-23	53	0%	ND/2019/02 - 6D (with PH)
1941	P7-DOFO1040	Wall Plastering and Door Frame Installation	6	6	21-Nov-23	27-Nov-23	53	0%	ND/2019/02 - 6D (with PH)
1942	P7-DOFO1050	Floor Screeding	8	8	27-Nov-23	05-Dec-23	66	0%	ND/2019/02 - 6D (with PH)
1943	P7-DOFO1060	Wall Finishes and Door Installation	10	10	05-Dec-23	15-Dec-23	91	0%	ND/2019/02 - 6D (with PH)
1944	P7-DOFO1070	Floor Finishes	10	10	15-Dec-23	28-Dec-23	91	0%	ND/2019/02 - 6D (with PH)
1945	P7-DOFO1080	Window / Louvre Installation with grouting and water testing	10	10	28-Dec-23	09-Jan-24	91	0%	ND/2019/02 - 6D (with PH)
1946	**BS Works**		181	181	21-Dec-23	15-Jul-24	0	0%	ND/2019/02 - 6D (with PH)
1947	P7-DOBS1010	BS 1st Fixing (Elec, FS, DO Equipment)	21	21	21-Dec-23	16-Jan-24	30	0%	ND/2019/02 - 6D (with PH)
1948	P7-DOBS1020	BS 2nd Fixing (Elec, FS, DO Equipment)	25	25	16-Jan-24	15-Feb-24	30	0%	ND/2019/02 - 6D (with PH)
1949	P7-DOBS1030	BS final Fixing & DO Equipment Installation	30	30	15-Feb-24	18-Mar-24	30	0%	ND/2019/02 - 6D (with PH)
1950	P7-DOBS1035	FRR Shutter Installation	45	45	18-Mar-24	09-May-24	30	0%	ND/2019/02 - 6D (with PH)
1951	P7-DOBS1040	T&C of DO Room Euipments	30	30	12-Jun-24	15-Jul-24	0	0%	ND/2019/02 - 6D (with PH)
1952	**Pump Hall**		514	514	25-Nov-23	20-Jun-25	-271	0%	ND/2019/02 - 6D (with PH)
1953	P7-PH1000	Access Date of G/F Pump Hall Fitting Out	0	0	25-Nov-23		12	0%	ND/2019/02 - 6D (with PH)
1954	**ABWF**		116	116	25-Nov-23	08-Apr-24	39	0%	ND/2019/02 - 6D (with PH)
1955	P7-PH1012	Concrete defect recfication and repairing	6	6	25-Nov-23	02-Dec-23	12	0%	ND/2019/02 - 6D (with PH)
1956	P7-PH1014	Ceiling Plastering	10	10	02-Dec-23	13-Dec-23	12	0%	ND/2019/02 - 6D (with PH)
1957	P7-PH1016	Wall Plastering and Door Frame Installation	6	6	13-Dec-23	19-Dec-23	12	0%	ND/2019/02 - 6D (with PH)
1958	P7-PH1018	Floor Screeding	8	8	19-Dec-23	29-Dec-23	39	0%	ND/2019/02 - 6D (with PH)
1959	P7-PH1020	Wall Finishes and Door Installation	10	10	29-Dec-23	10-Jan-24	39	0%	ND/2019/02 - 6D (with PH)
1960	P7-PH1022	Floor Finishes	10	10	10-Jan-24	20-Jan-24	39	0%	ND/2019/02 - 6D (with PH)
1961	P7-PH1024	Window / Louvre Installation with grouting and water testing	10	10	20-Jan-24	31-Jan-24	39	0%	ND/2019/02 - 6D (with PH)
1962	P7-PH1028	Steel Staircase Installation (+4.35mPD to +7.65mPD)	8	8	31-Jan-24	08-Feb-24	39	0%	ND/2019/02 - 6D (with PH)
1963	P7-PH1030	Overhead traveling crane Installation at the ceiling of Pump Hall	20	20	09-Feb-24	04-Mar-24	39	0%	ND/2019/02 - 6D (with PH)
1964	P7-PH1040	Lifting Chain Installation	10	10	05-Mar-24	14-Mar-24	39	0%	ND/2019/02 - 6D (with PH)
1965	P7-PH1060	Handrail Installation surrounding opening of pump hall	6	6	15-Mar-24	21-Mar-24	39	0%	ND/2019/02 - 6D (with PH)
1966	P7-PH1075	FRP Covers of opening of pump hall (30nos.)	12	12	21-Mar-24	08-Apr-24	39	0%	ND/2019/02 - 6D (with PH)
1967	**BS Works**		492	492	19-Dec-23	20-Jun-25	-271	0%	ND/2019/02 - 6D (with PH)
1968	P7-PH1015	BS 1st Fixing (Elec, FS)	21	21	19-Dec-23	13-Jan-24	12	0%	ND/2019/02 - 6D (with PH)
1969	P7-PH1025	BS 2nd Fixing (Elec, FS, PLC)	25	25	13-Jan-24	08-Feb-24	12	0%	ND/2019/02 - 6D (with PH)
1970	P7-PH1035	BS final Fixing	30	30	09-Feb-24	14-Mar-24	12	0%	ND/2019/02 - 6D (with PH)
1971	P7-PH1045	FRR Shutters Installation (3nos)	45	45	15-Mar-24	07-May-24	12	0%	ND/2019/02 - 6D (with PH)
1972	P7-PH1050	Bund Wall and Chemical Storage Tank Installation	12	12	15-Mar-24	27-Mar-24	39	0%	ND/2019/02 - 6D (with PH)
1973	P7-PH1070	T&C of Pump Hall & FS Equipments & connection of AFA system to FS link	50	50	12-Jun-24	05-Aug-24	-20	0%	ND/2019/02 - 6D (with PH)
1974	P7-PH1085	Overall System T&C before FSD Inspection	38	38	10-May-25	20-Jun-25	-271	0%	ND/2019/02 - 6D (with PH)
1975	**Roof Floor**		236	236	30-Apr-24	14-Jan-25	-113	0%	ND/2019/02 - 6D (with PH)
1976	P7-RF2000	Access Date of Roof Fitting Out	0	0	30-Apr-24		-113	0%	ND/2019/02 - 6D (with PH)
1977	**ABWF**		161	161	30-Apr-24	24-Oct-24	-103	0%	ND/2019/02 - 6D (with PH)
1978	P7-RF2010	Setting Out	2	2	30-Apr-24	03-May-24	-113	0%	ND/2019/02 - 6D (with PH)
1979	P7-RF2020	Roof RC Structure Water Testing before waterproofing	12	12	03-May-24	17-May-24	-113	0%	ND/2019/02 - 6D (with PH)
1980	P7-RF2030	Remedial and touch up works before applying waterproofing	6	6	17-May-24	23-May-24	-113	0%	ND/2019/02 - 6D (with PH)
1981	P7-RF2040	Applying Roof waterproofing Membrane	10	10	23-May-24	03-Jun-24	-113	0%	ND/2019/02 - 6D (with PH)
1982	P7-RF2050	Water Testing & Infra red testing	6	6	03-Jun-24	08-Jun-24	-113	0%	ND/2019/02 - 6D (with PH)
1983	P7-RF2060	Laying Insulation board with protection floor screed	10	10	11-Jun-24	20-Jun-24	-113	0%	ND/2019/02 - 6D (with PH)
1984	P7-RF2070	Laying Floor finishes	30	30	21-Jun-24	23-Jul-24	-113	0%	ND/2019/02 - 6D (with PH)
1985	P7-RF2080	Roof water tank Installation & testing	40	40	24-Jul-24	03-Sep-24	-103	0%	ND/2019/02 - 6D (with PH)
1986	P7-RF2090	Roof Skylight Installation	30	30	04-Sep-24	07-Oct-24	-103	0%	ND/2019/02 - 6D (with PH)
1987	P7-RF2100	Roof Balustrade & Fall Arrest system Installation	30	30	20-Sep-24	24-Oct-24	-103	0%	ND/2019/02 - 6D (with PH)
1988	**BS Works**		141	141	23-May-24	24-Oct-24	-94	0%	ND/2019/02 - 6D (with PH)
1989	P7-RF2140	BS 1st Fixing (Elec, Water, Irrigation piping)	30	30	23-May-24	25-Jun-24	-87	0%	ND/2019/02 - 6D (with PH)
1990	P7-RF2150	BS 2nd Fixing (Elec, Water, Irrigation System connection)	35	35	24-Jul-24	29-Aug-24	-113	0%	ND/2019/02 - 6D (with PH)
1991	P7-RF2160	BS final Fixing	40	40	29-Aug-24	14-Oct-24	-94	0%	ND/2019/02 - 6D (with PH)
1992	P7-RF2170	T&C of Roof BS System	10	10	14-Oct-24	24-Oct-24	-94	0%	ND/2019/02 - 6D (with PH)
1993	**Landscape Works**		125	125	29-Aug-24	14-Jan-25	-113	0%	ND/2019/02 - 6D (with PH)
1994	P7-RF2105	Roof Planters Drainages, irrigation pipe, Artiifcal Granite Tile Installation	30	30	29-Aug-24	02-Oct-24	-113	0%	ND/2019/02 - 6D (with PH)
1995	P7-RF2110	Soil Backfilling to Roof Planters	45	45	02-Oct-24	19-Nov-24	-113	0%	ND/2019/02 - 6D (with PH)
1996	P7-RF2120	Shurbs Planting works to roof floor (5,802 nos)	60	60	24-Oct-24	28-Dec-24	-113	0%	ND/2019/02 - 6D (with PH)
1997	P7-RF2130	Water Points installation for irrigation	28	28	12-Dec-24	14-Jan-25	-113	0%	ND/2019/02 - 6D (with PH)
1998	**External Finishes**		186	186	30-Apr-24	19-Nov-24	-101	0%	ND/2019/02 - 6D (with PH)
1999	P7-1300	Modify external scaffolding	25	25	30-Apr-24	29-May-24	-101	0%	ND/2019/02 - 6D (with PH)
2000	P7-1310	Waterproofing & Window / Lourve Glazing Works	36	36	29-May-24	08-Jul-24	-101	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
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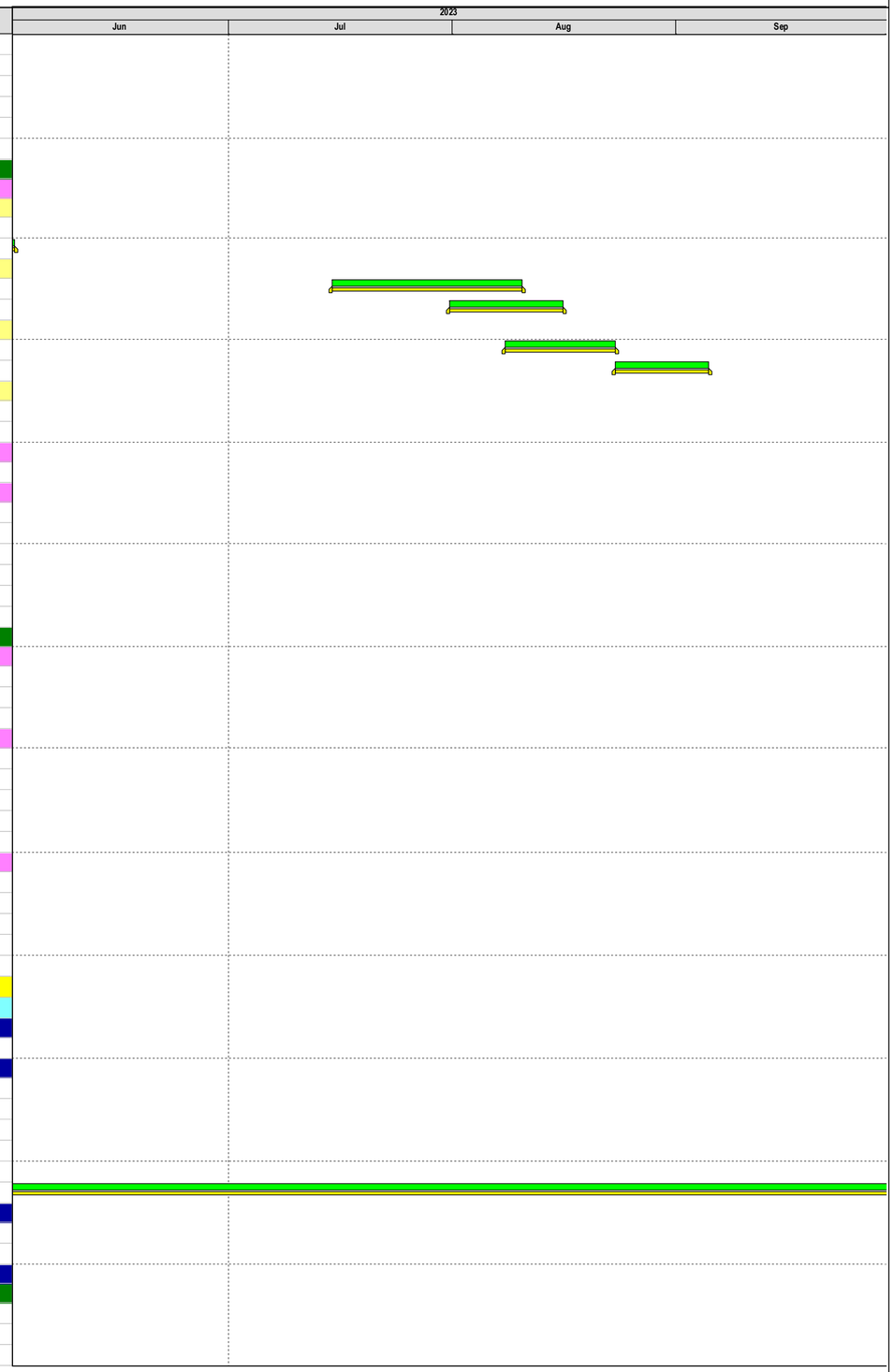
Programme Forecast (Jun-Jul-Aug-Sep 2023)

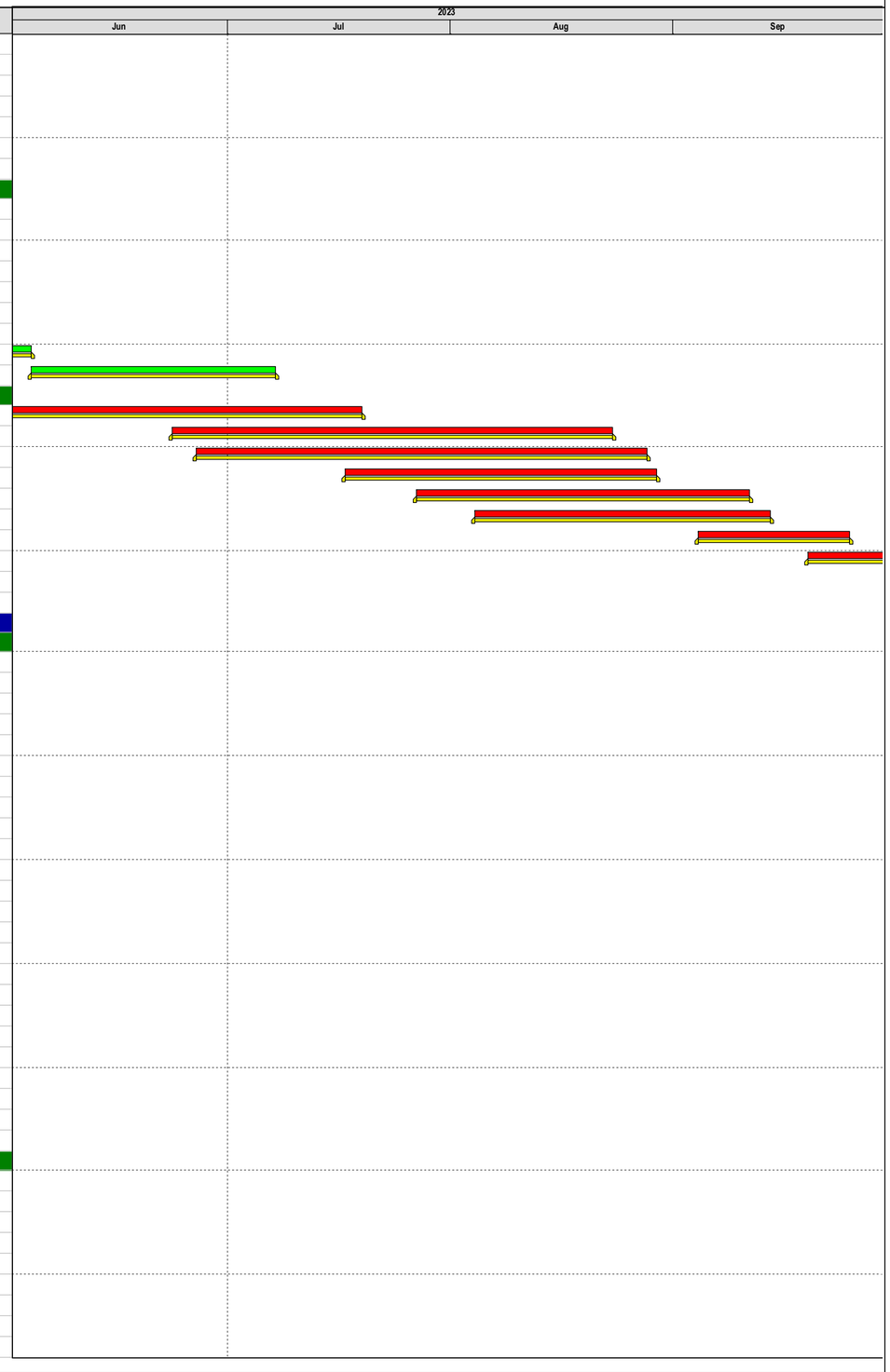
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

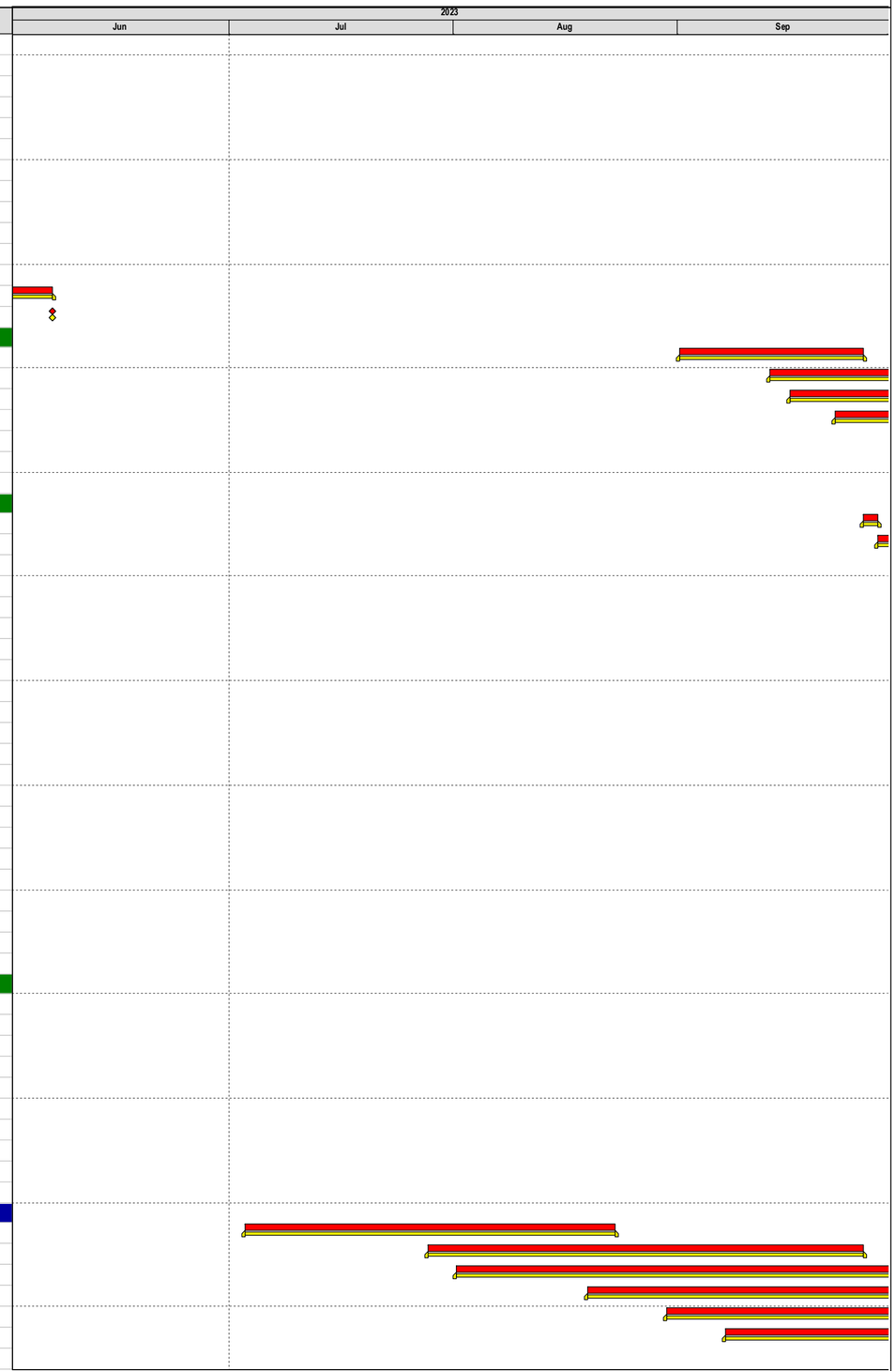
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2001	P7-1320	Fin Cladding Installation	36	36	08-Jul-24	14-Aug-24	-101	0%	ND/2019/02 - 6D (with PH)
2002	P7-1325	RC Staircase Finishes works	20	20	30-Jul-24	20-Aug-24	-101	0%	ND/2019/02 - 6D (with PH)
2003	P7-1330	Door and external wall Recycle Timber Composite installation	25	25	20-Aug-24	14-Sep-24	-101	0%	ND/2019/02 - 6D (with PH)
2004	P7-1335	FRR Shutters Installation	36	36	07-Sep-24	18-Oct-24	-101	0%	ND/2019/02 - 6D (with PH)
2005	P7-1337	Fence Wall Gate Installation	36	36	27-Sep-24	07-Nov-24	-101	0%	ND/2019/02 - 6D (with PH)
2006	P7-1340	Removal of external scaffolding	12	12	07-Nov-24	19-Nov-24	-101	0%	ND/2019/02 - 6D (with PH)
2007	**External Works**		613	613	13-May-23	21-Mar-25	-113	0%	ND/2019/02 - 6D (with PH)
2008	**Drainage and Site Formation**		421	421	13-May-23	21-Aug-24	-63	0%	ND/2019/02 - 6D (with PH)
2009	**Sewerage pipe KT1.47A to KT1.48A**		16	16	13-May-23	01-Jun-23	324	0%	ND/2019/02 - 6D (with PH)
2010	P7-1333	Open Trench formation for sewerage pipe KT1.47A to KT1.48A (12m long, -1.96mPD)	10	10	13-May-23	24-May-23	324	0%	ND/2019/02 - 6D (with PH)
2011	P7-1336	Sewerage Pipe laying KT1.47A to KT1.48A (12m) (DN1050)	6	6	24-May-23	01-Jun-23	324	0%	ND/2019/02 - 6D (with PH)
2012	**Rising main CHB0.0 to CHB50**		30	30	15-Jul-23	16-Aug-23	219	0%	ND/2019/02 - 6D (with PH)
2013	P7-1350	Open Trench formation for rising main CHB0.0 to CHB50 (50m long 4m Depth, 1.6-2mPD)	25	25	15-Jul-23	10-Aug-23	219	0%	ND/2019/02 - 6D (with PH)
2014	P7-1360	Rising main laying (50m) (Twins DN700)	15	15	31-Jul-23	16-Aug-23	219	0%	ND/2019/02 - 6D (with PH)
2015	**DN1050 Overflow Pipe**		27	27	08-Aug-23	05-Sep-23	186	0%	ND/2019/02 - 6D (with PH)
2016	P7-1375	Open Trench formation for DN1050 Overflow Pipe(24m long +5.3mPD)	15	15	08-Aug-23	23-Aug-23	186	0%	ND/2019/02 - 6D (with PH)
2017	P7-1377	Overflow Pipe laying (24m) (DN1050)	12	12	23-Aug-23	05-Sep-23	186	0%	ND/2019/02 - 6D (with PH)
2018	**DN1050 Pipe Under SPS EVA**		27	27	24-Jul-24	21-Aug-24	-63	0%	ND/2019/02 - 6D (with PH)
2019	P7-4170	Open Trench formation for DN1050 Pipe(Under SPS EVA)	15	15	24-Jul-24	08-Aug-24	-63	0%	ND/2019/02 - 6D (with PH)
2020	P7-4180	Pipe laying (DN1050)	12	12	08-Aug-24	21-Aug-24	-63	0%	ND/2019/02 - 6D (with PH)
2021	**EVA Construction**		36	36	21-Aug-24	28-Sep-24	-63	0%	ND/2019/02 - 6D (with PH)
2022	P7-4160	Construction of EVA and Parking Spaces	36	36	21-Aug-24	28-Sep-24	-63	0%	ND/2019/02 - 6D (with PH)
2023	**Landscape Works**		168	168	14-Sep-24	21-Mar-25	-113	0%	ND/2019/02 - 6D (with PH)
2024	P7-LA0090	Climber Installation with Vertical Planting	30	30	14-Sep-24	19-Oct-24	-84	0%	ND/2019/02 - 6D (with PH)
2025	P7-LA0095	Placing irrigation pipe and Planting Soil near main entrance of SPS	20	20	20-Nov-24	10-Dec-24	-101	0%	ND/2019/02 - 6D (with PH)
2026	P7-LA1000	Placing irrigation pipe and Planting Soil Near Retaining Wall RW-08	20	20	20-Nov-24	10-Dec-24	-101	0%	ND/2019/02 - 6D (with PH)
2027	P7-LA1010	Tree Planting (7nos. Tm & 7nos Tp) Near Retaining Wall RW-08	24	24	15-Jan-25	12-Feb-25	-113	0%	ND/2019/02 - 6D (with PH)
2028	P7-LA1030	Tree Planting (4nos. BJ, 4nos VO & 1no. of WB) after wooden fence installation	25	25	12-Feb-25	11-Mar-25	-113	0%	ND/2019/02 - 6D (with PH)
2029	P7-LA1040	Shrubs Planting (Tja, Rex, cte, oja etc.....) Total 2,229 nos.	25	25	22-Feb-25	21-Mar-25	-113	0%	ND/2019/02 - 6D (with PH)
2030	**Statutory Inspection**		284	284	11-Dec-24	22-Oct-25	-271	0%	ND/2019/02 - 6D (with PH)
2031	**WSD Inspection (Irrigation Water Supply)**		62	62	11-Dec-24	20-Feb-25	-101	0%	ND/2019/02 - 6D (with PH)
2032	P7-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Irrigation Water Supply	1	1	11-Dec-24	11-Dec-24	-101	0%	ND/2019/02 - 6D (with PH)
2033	P7-WSD1010	WSD Inspection - Irrigation Water Supply	7	7	15-Jan-25	23-Jan-25	-101	0%	ND/2019/02 - 6D (with PH)
2034	P7-WSD1020	Issue Water Certificate (Part V) - Irrigation Water Supply	1	1	19-Feb-25	20-Feb-25	-101	0%	ND/2019/02 - 6D (with PH)
2035	**FSD Inspection**		91	91	10-May-25	16-Aug-25	-262	0%	ND/2019/02 - 6D (with PH)
2036	P7-FSD2090	Submit FS Form 314 / 501 For FSD Inspection	1	1	10-May-25	12-May-25	-271	0%	ND/2019/02 - 6D (with PH)
2037	P7-FSD2100	FS Inspection	7	7	09-Jun-25	16-Jun-25	-271	0%	ND/2019/02 - 6D (with PH)
2038	P7-FSD2105	Defect retification and Submit Form for Re-inspection	25	25	16-Jun-25	12-Jul-25	-271	0%	ND/2019/02 - 6D (with PH)
2039	P7-FSD2107	2nd round FS Inspection	7	7	04-Aug-25	11-Aug-25	-271	0%	ND/2019/02 - 6D (with PH)
2040	P7-FSD2110	Issue Fire Certificate (Form 172)	1	1	15-Aug-25	16-Aug-25	-262	0%	ND/2019/02 - 6D (with PH)
2041	**CEDD / DSD Inspection**		67	67	11-Aug-25	22-Oct-25	-271	0%	ND/2019/02 - 6D (with PH)
2042	P7-CEDD1015	Change over of Temp system to Perm System	15	15	11-Aug-25*	26-Aug-25	-271	0%	ND/2019/02 - 6D (with PH)
2043	P7-CEDD1020	Overall System T&C before CEDD / DSD Inspection	15	15	26-Aug-25*	11-Sep-25	-271	0%	ND/2019/02 - 6D (with PH)
2044	P7-CEDD1030	Submit Inspection Form For CEDD /DSD Inspection	1	1	11-Sep-25	12-Sep-25	-271	0%	ND/2019/02 - 6D (with PH)
2045	P7-CEDD1040	CEDD / DSD Inspection	7	7	26-Sep-25	06-Oct-25	-271	0%	ND/2019/02 - 6D (with PH)
2046	P7-CEDD1050	Issue Completion Certificate by CEDD and handover to DSD for operation	1	1	21-Oct-25	22-Oct-25	-271	0%	ND/2019/02 - 6D (with PH)
2047	**Works in Section 3**		1472	496	16-Apr-20 A	09-Sep-24	848	66.29%	
2048	**Portion 8 - Roads & Drains**		1472	496	29-Jun-20 A	09-Sep-24	848	66.29%	
2049	**Site Possession**		0	0	03-Aug-20 A	03-Aug-20 A		0%	ND/2019/02 - 6D (with PH)
2050	P8-1000	Possession of site - Portion 8	0	0	03-Aug-20 A			100%	ND/2019/02 - 6D (with PH)
2051	**Pre-construction works**		1327	450	29-Jun-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
2052	P8-1010	Utilities Detection in Portion 8	11	0	29-Jun-20 A	14-Jul-20 A		100%	ND/2019/02 - 6D (with PH)
2053	P8-1020	Inspection Pit	16	0	04-Aug-20 A	25-Aug-20 A		100%	ND/2019/02 - 6D (with PH)
2054	P8-1030	Coordination with UU owner to arrange diversion / abandon	16	0	25-Aug-20 A	01-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
2055	P8-1040	Circulation & Approval of TTAs	19	0	18-Aug-20 A	19-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
2056	P8-1050	Formation of Temporary Haul Road & Entrance to Portion 7 & Portion 10	27	0	21-Sep-20 A	14-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
2057	P8-1055	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	765	66.06%	ND/2019/02 - 6D (with PH)
2058	**Cycle Track and Footpath Diversion (For KT1.41A to KT1.47A Construction)**		63	23	28-Feb-23 A	25-May-23	-290	63.75%	ND/2019/02 - 6D (with PH)
2059	P8-5850	North Bridge Ramp Landing Completion	0	0		11-May-23	-276	0%	ND/2019/02 - 6D (with PH)
2060	P8-5900	Cycle Track Shifting to the top of North Bridge Ramp (After North Bridge Ramp Completion)	53	23	28-Feb-23 A	25-May-23	-290	56.6%	ND/2019/02 - 6D (with PH)
2061	**Sewer Pipeline Installation**		482	210	04-Jul-22 A	14-Dec-23	66	56.45%	ND/2019/02 - 6D (with PH)
2062	**KT1.40A - KT1.43.7 (50m)**		203	0	04-Jul-22 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2063	P8-5140	Sheet Pile Installation for open trench (Open Trench from 1.40A to 1.43.7)	23	0	04-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2064	P8-5150	Soft Excavation to 1st strut level	22	0	18-Jul-22 A	11-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2065	P8-5160	Installation of strut S1	23	0	05-Aug-22 A	30-Aug-22 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2066	P8-5170	Soft Excavation to 2nd strut level	18	0	07-Sep-22 A	28-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2067	P8-5180	Installation of strut S2	23	0	14-Sep-22 A	15-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2068	P8-5190	Soft Excavation to F.L.	25	0	24-Sep-22 A	25-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2069	P8-5200	Bedding & Pipe Laying (800 Concrete Pipe)	15	0	31-Oct-22 A	12-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2070	P8-5205	Construction of Manhole KT1.43.7	19	0	23-Nov-22 A	13-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2071	P8-5210	Backfilling of drain to at grade level with dismantling strut	20	0	15-Dec-22 A	07-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2072	P8-5220	Extraction of sheet pile and reinstatement	40	0	28-Dec-22 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2073	**KT1.43.7 - KT1.41A (60m)**		190	61	05-Dec-22 A	07-Jul-23	215	67.88%	ND/2019/02 - 6D (with PH)
2074	P8-9090	Sheet Pile Installation for open trench (Open Trench from 1.43.7 to 1.41A)	23	0	05-Dec-22 A	30-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2075	P8-9100	Soft Excavation to 1st strut level	22	0	17-Dec-22 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2076	P8-9110	Installation of strut S1	23	0	21-Dec-22 A	17-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2077	P8-9120	Soft Excavation to 2nd strut level	31	0	30-Jan-23 A	02-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2078	P8-9130	Installation of strut S2	23	0	22-Feb-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2079	P8-9140	Soft Excavation to F.L.	24	0	02-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2080	P8-9150	Bedding & Pipe Laying (800 Concrete Pipe)	10	10	02-May-23	11-May-23	215	0%	ND/2019/02 - 6D (with PH)
2081	P8-9155	Construction of Manhole KT1.41A	21	21	12-May-23	03-Jun-23	215	0%	ND/2019/02 - 6D (with PH)
2082	P8-9160	Backfilling of drain to at grade level & Sheet Pile Extraction	30	30	03-Jun-23	07-Jul-23	215	0%	ND/2019/02 - 6D (with PH)
2083	**KT1.41A - KT1.47A (100m) (Open Cut by CE-076)**		187	187	25-May-23	14-Dec-23	-290	0%	ND/2019/02 - 6D (with PH)
2084	P8-6000	Sheet Pile Installation for open trench (after Completion of Temp. Cycle Track and Footpath)	49	49	25-May-23	19-Jul-23	-290	0%	ND/2019/02 - 6D (with PH)
2085	P8-6010	Soft Excavation to 1st strut level	57	57	23-Jun-23	23-Aug-23	-290	0%	ND/2019/02 - 6D (with PH)
2086	P8-6020	Installation of strut S1	58	58	26-Jun-23	28-Aug-23	-290	0%	ND/2019/02 - 6D (with PH)
2087	P8-6030	Soft Excavation to 2nd strut level	42	42	17-Jul-23	29-Aug-23	-290	0%	ND/2019/02 - 6D (with PH)
2088	P8-6040	Installation of strut S2	44	44	27-Jul-23	11-Sep-23	-290	0%	ND/2019/02 - 6D (with PH)
2089	P8-6050	Soft Excavation to F.L.	39	39	04-Aug-23	14-Sep-23	-290	0%	ND/2019/02 - 6D (with PH)
2090	P8-6060	Bedding & Pipe Laying (Twins 1200 Concrete Pipe)	20	20	04-Sep-23	25-Sep-23	-290	0%	ND/2019/02 - 6D (with PH)
2091	P8-6070	Backfilling of drain to at grade level	45	45	19-Sep-23	09-Nov-23	-290	0%	ND/2019/02 - 6D (with PH)
2092	P8-6100	Construction of Manhole KT1.47A	21	21	09-Nov-23	01-Dec-23	-290	0%	ND/2019/02 - 6D (with PH)
2093	P8-6110	Backfilling to at grade level	30	30	14-Nov-23	14-Dec-23	-290	0%	ND/2019/02 - 6D (with PH)
2094	**Drainage Outfall constuction by Open Cut**		393	289	19-Dec-22 A	13-Mar-24	927	26.58%	ND/2019/02 - 6D (with PH)
2095	**Outfall 5100A**		120	15	19-Dec-22 A	17-May-23	1200	87.2%	ND/2019/02 - 6D (with PH)
2096	P8-OF3530	Removal of Grasscrete and concrete materials	2	0	19-Dec-22 A	20-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2097	P8-OF3531	Excavation to formation level	1	0	21-Dec-22 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2098	P8-OF3541	Laying of silt curtain and delivery of concrete block	1	0	22-Dec-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2099	P8-OF3551	Pour Concrete Blinding	1	0	24-Dec-22 A	24-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2100	P8-OF3553	Erect formwork for Vertical blinding for base slab shear key	1	0	29-Dec-22 A	29-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2101	P8-OF3555	Pour Concrete shear key blinding	1	0	30-Dec-22 A	30-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2102	P8-OF3557	Strip off formwork for shear key	1	0	05-Jan-23 A	05-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2103	P8-OF3559	Erect formwork for Shear key	1	0	07-Jan-23 A	07-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2104	P8-OF3561	Erect formwork for oufall base slab	1	0	09-Jan-23 A	09-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2105	P8-OF3563	Erect formwork for oufall Wall (1st side)	9	0	09-Jan-23 A	18-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2106	P8-OF3565	Rebar fixing for oufall base slab	8	0	10-Jan-23 A	18-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2107	P8-OF3611	Outfall Baseslab concreting	1	0	19-Jan-23 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2108	P8-OF3621	Dismantle Base slab Formwork	2	0	01-Feb-23 A	02-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2109	P8-OF3623	Rebar fixing for oufall Wall	1	0	03-Feb-23 A	03-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2110	P8-OF3631	Erect formwork for oufall Wall (2nd side)	5	0	04-Feb-23 A	09-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2111	P8-OF3651	Outfall Wall concreting	4	0	10-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2112	P8-OF3661	Dismantle Wall Formwork	3	0	15-Feb-23 A	17-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2113	P8-OF3671	Reintatement by Rockfill	2	0	18-Feb-23 A	20-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2114	P8-OF3731	Sheet Pile Installation from Outfall 5100A to SMH_KTCP5100A	20	0	21-Feb-23 A	13-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2115	P8-OF3741	ELS of open trench from Outfall 5100A to SMH_KTCP5100A	15	0	03-Mar-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2116	P8-OF3751	Drain Laying from Outfall 5100A to SMH_KTCP5100A	6	0	18-Mar-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2117	P8-OF3756	Remove remining side sheet pile & rock fill	5	0	24-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2118	P8-OF3761	Backfilling to at grade level	16	15	30-Mar-23 A	17-May-23	-96	4.17%	ND/2019/02 - 6D (with PH)
2119	P8-OF3766	Report Completion of Drainage works	0	0		17-May-23	-96	0%	ND/2019/02 - 6D (with PH)
2120	**Outfall 5101**		122	33	19-Jan-23 A	06-Jun-23	-113	72.93%	ND/2019/02 - 6D (with PH)
2121	P8-OF3896	Removal of Grasscrete and concrete materials	2	0	19-Jan-23 A	20-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2122	P8-OF3906	Excavation to formation level	1	0	01-Feb-23 A	01-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2123	P8-OF3916	Laying of silt curtain and delivery of concrete block	1	0	02-Feb-23 A	02-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2124	P8-OF3926	Pour Concrete Blinding	1	0	03-Feb-23 A	03-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2125	P8-OF3936	Erect formwork for Vertical blinding for base slab shear key	1	0	04-Feb-23 A	04-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2126	P8-OF3946	Pour Concrete shear key blinding	1	0	06-Feb-23 A	06-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2127	P8-OF3956	Strip off formwork for shear key	1	0	07-Feb-23 A	07-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2128	P8-OF3966	Erect formwork for Shear key	1	0	08-Feb-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2129	P8-OF3976	Erect formwork for oufall base slab	1	0	09-Feb-23 A	09-Feb-23 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2130	P8-OF3986	Erect formwork for oufall Wall (1st side)	9	0	10-Feb-23 A	20-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2131	P8-OF3996	Rebar fixing for oufall base slab	8	0	21-Feb-23 A	01-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2132	P8-OF4006	Outfall Baseslab concreting	1	0	01-Mar-23 A	02-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2133	P8-OF4016	Dismantle Base slab Formwork	2	0	02-Mar-23 A	04-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2134	P8-OF4026	Rebar fixing for oufall Wall	1	0	04-Mar-23 A	06-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2135	P8-OF4036	Erect formwork for oufall Wall (2nd side)	5	0	06-Mar-23 A	10-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2136	P8-OF4046	Outfall Wall concreting	4	0	10-Mar-23 A	15-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2137	P8-OF4056	Dismantle Wall Formwork	3	0	15-Mar-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2138	P8-OF4066	Sheet Pile Installation from Outfall 5101A to SMH_KT5101A	6	0	18-Mar-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2139	P8-OF4076	ELS of open trench from Outfall 5101A to SMH_KT5101A	8	6	29-Mar-23 A	08-May-23	-113	25%	ND/2019/02 - 6D (with PH)
2140	P8-OF4086	Drain Laying from Outfall 5101A to SMH_KT5101A	6	6	08-May-23	13-May-23	-113	0%	ND/2019/02 - 6D (with PH)
2141	P8-OF4096	Remove remining side sheet pile & rock fill	5	5	13-May-23	19-May-23	-113	0%	ND/2019/02 - 6D (with PH)
2142	P8-OF4106	Backfilling to at grade level	16	16	19-May-23	06-Jun-23	-113	0%	ND/2019/02 - 6D (with PH)
2143	P8-OF4116	Report Completion of Drainage works	0	0		06-Jun-23	-113	0%	ND/2019/02 - 6D (with PH)
2144	**Sewer Installation at SMH_KT5101A to OF5101(50m) (Open Cut)**		114	114	01-Sep-23	05-Jan-24	-308	0%	ND/2019/02 - 6D (with PH)
2145	P8-3010	Sheet Pile Installation	24	24	01-Sep-23*	26-Sep-23	-308	0%	ND/2019/02 - 6D (with PH)
2146	P8-3020	Soft Excavation to 1st strut level	36	36	13-Sep-23	25-Oct-23	-308	0%	ND/2019/02 - 6D (with PH)
2147	P8-3025	Installation of strut S1	38	38	16-Sep-23	30-Oct-23	-308	0%	ND/2019/02 - 6D (with PH)
2148	P8-3030	Soft Excavation to 2nd strut level	38	38	22-Sep-23	06-Nov-23	-308	0%	ND/2019/02 - 6D (with PH)
2149	P8-3035	Installation of strut S2	40	40	07-Oct-23	20-Nov-23	-308	0%	ND/2019/02 - 6D (with PH)
2150	P8-3040	Soft Excavation to F.L ; (approx. 6.5m depth)	36	36	19-Oct-23	27-Nov-23	-308	0%	ND/2019/02 - 6D (with PH)
2151	P8-3060	Bedding and Pipe Laying (Twins DN700)	34	34	28-Nov-23	05-Jan-24	-308	0%	ND/2019/02 - 6D (with PH)
2152	**Outfall 5103**		88	88	26-Sep-23	03-Jan-24	-322	0%	ND/2019/02 - 6D (with PH)
2153	P8-OF1640	Removal of Grasscrete and concrete materials	2	2	26-Sep-23	28-Sep-23	-369	0%	ND/2019/02 - 6D (with PH)
2154	P8-OF1650	Excavation to formation level	3	3	28-Sep-23	04-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2155	P8-OF1660	Laying of silt curtain and delivery of concrete block	5	5	04-Oct-23	09-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2156	P8-OF1670	Pour Concrete Blinding	4	4	09-Oct-23	13-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2157	P8-OF1680	Erect formwork for Vertical blinding for base slab shear key	5	5	17-Oct-23	21-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2158	P8-OF1690	Pour Concrete shear key blinding	2	2	21-Oct-23	25-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2159	P8-OF1700	Strip off formwork for shear key	1	1	25-Oct-23	26-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2160	P8-OF1710	Erect formwork for Shear key	5	5	26-Oct-23	31-Oct-23	-369	0%	ND/2019/02 - 6D (with PH)
2161	P8-OF1720	Erect formwork for oufall base slab	1	1	31-Oct-23	01-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2162	P8-OF1730	Erect formwork for oufall Wall (1st side)	3	3	01-Nov-23	04-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2163	P8-OF1740	Rebar fixing for oufall base slab	2	2	04-Nov-23	07-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2164	P8-OF1750	Outfall Baseslab concreting	5	5	07-Nov-23	11-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2165	P8-OF1760	Dismantle 1st pour Wall Formwork	3	3	11-Nov-23	15-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2166	P8-OF1770	Dismantle Base slab Formwork	4	4	15-Nov-23	18-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2167	P8-OF1780	Rebar fixing for oufall Wall	3	3	20-Nov-23	22-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2168	P8-OF1790	Erect formwork for oufall Wall (2nd side)	2	2	22-Nov-23	24-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2169	P8-OF1800	Outfall Wall concreting	2	2	24-Nov-23	27-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2170	P8-OF1810	Dismantle Wall Formwork	2	2	27-Nov-23	29-Nov-23	-369	0%	ND/2019/02 - 6D (with PH)
2171	P8-OF3836	Sheet Pile Installation from Outfall 5103 to SMH_KT5103	20	20	29-Nov-23	20-Dec-23	-369	0%	ND/2019/02 - 6D (with PH)
2172	P8-OF3846	ELS of open trench from Outfall 5103 to SMH_KT5103	10	10	09-Dec-23	20-Dec-23	-322	0%	ND/2019/02 - 6D (with PH)
2173	P8-OF3856	Drain Laying from Outfall 5103 to SMH_KT5103	6	6	20-Dec-23	28-Dec-23	-322	0%	ND/2019/02 - 6D (with PH)
2174	P8-OF3866	Remove remining side sheet pile & rock fill	5	5	28-Dec-23	03-Jan-24	-322	0%	ND/2019/02 - 6D (with PH)
2175	**Sewer Installation at SMH_KT5103 to OF 5103 (50m) (Open Cut)**		74	74	20-Dec-23	13-Mar-24	-369	0%	ND/2019/02 - 6D (with PH)
2176	P8-3210	Sheet Pile Installation	15	15	20-Dec-23	08-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2177	P8-3220	Soft Excavation to 1st strut level	12	12	23-Dec-23	09-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2178	P8-3225	Installation of strut S1	15	15	03-Jan-24	18-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2179	P8-3230	Soft Excavation to 2nd strut level	12	12	06-Jan-24	19-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2180	P8-3235	Installation of strut S2	15	15	11-Jan-24	26-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2181	P8-3240	Soft Excavation to F.L ; (approx. 6.5m depth)	10	10	17-Jan-24	27-Jan-24	-369	0%	ND/2019/02 - 6D (with PH)
2182	P8-3250	Bedding & Pipe Laying (Level -1.64mPD to -0.027mPD)	20	20	13-Jan-24	03-Feb-24	-369	0%	ND/2019/02 - 6D (with PH)
2183	P8-3270	Construction of Manhole SMH_KT 5103	18	18	03-Feb-24	26-Feb-24	-369	0%	ND/2019/02 - 6D (with PH)
2184	P8-OF3876	Backfilling to at grade level	16	16	26-Feb-24	13-Mar-24	-369	0%	ND/2019/02 - 6D (with PH)
2185	P8-OF3886	Report Completion of Drainage works	0	0		13-Mar-24	-369	0%	ND/2019/02 - 6D (with PH)
2186	**NS 250 PE Pipe Installation (From KT1.47A to KT6.03A)**		153	153	03-Jul-23	13-Dec-23	-289	0%	ND/2019/02 - 6D (with PH)
2187	P8-6900	Sheet Pile Installation for open trench	49	49	03-Jul-23*	23-Aug-23	-369	0%	ND/2019/02 - 6D (with PH)
2188	P8-7000	Soft Excavation to 1st strut level	57	57	28-Jul-23	26-Sep-23	-369	0%	ND/2019/02 - 6D (with PH)
2189	P8-7010	Installation of strut S1	58	58	01-Aug-23	03-Oct-23	-289	0%	ND/2019/02 - 6D (with PH)
2190	P8-7020	Soft Excavation to 2nd strut level	42	42	19-Aug-23	05-Oct-23	-289	0%	ND/2019/02 - 6D (with PH)
2191	P8-7030	Installation of strut S2	44	44	30-Aug-23	17-Oct-23	-289	0%	ND/2019/02 - 6D (with PH)
2192	P8-7040	Soft Excavation to F.L.	39	39	07-Sep-23	20-Oct-23	-289	0%	ND/2019/02 - 6D (with PH)
2193	P8-7050	Bedding and Pipe Laying (NS 250 PE Pipe)	20	20	10-Oct-23	01-Nov-23	-289	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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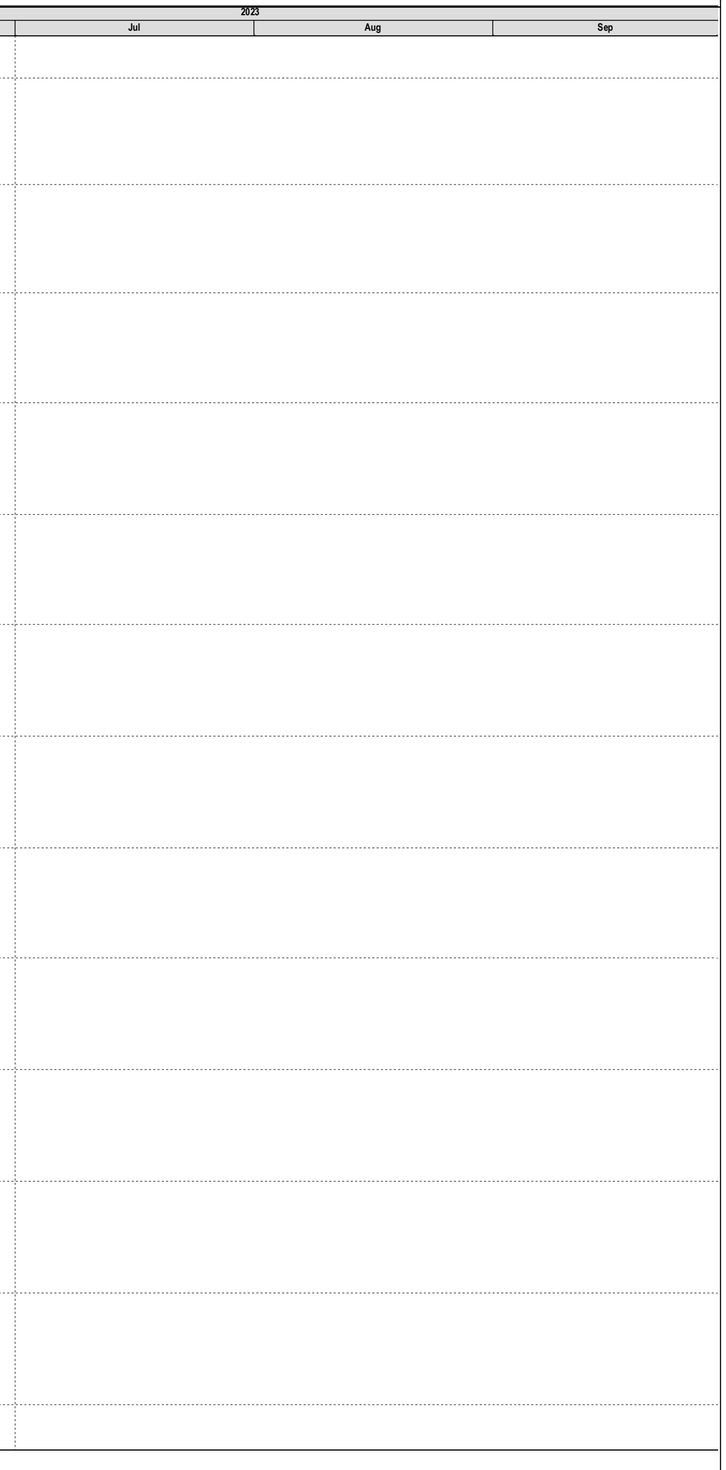
Programme Forecast (Jun-Jul-Aug-Sep 2023)

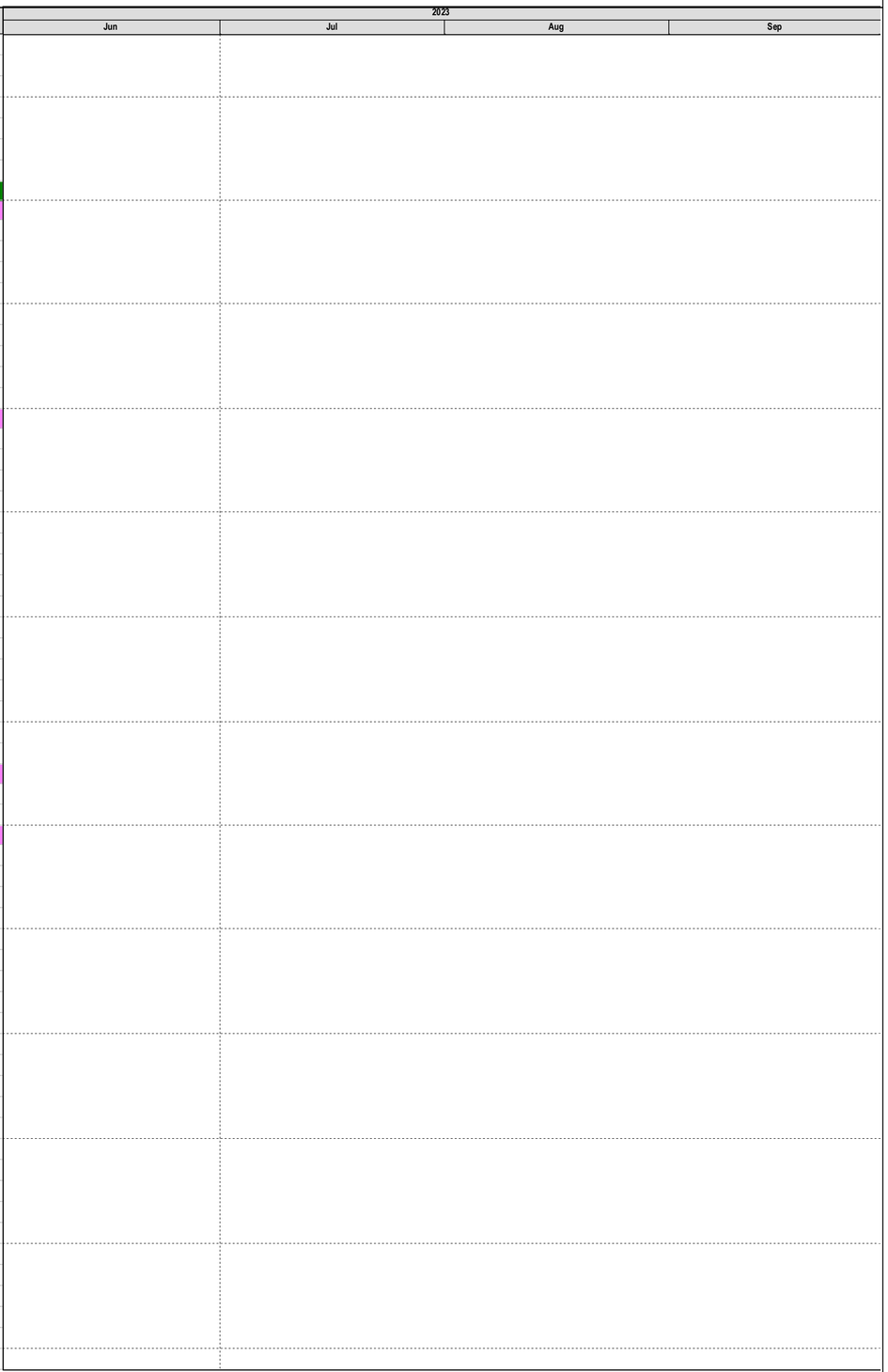
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

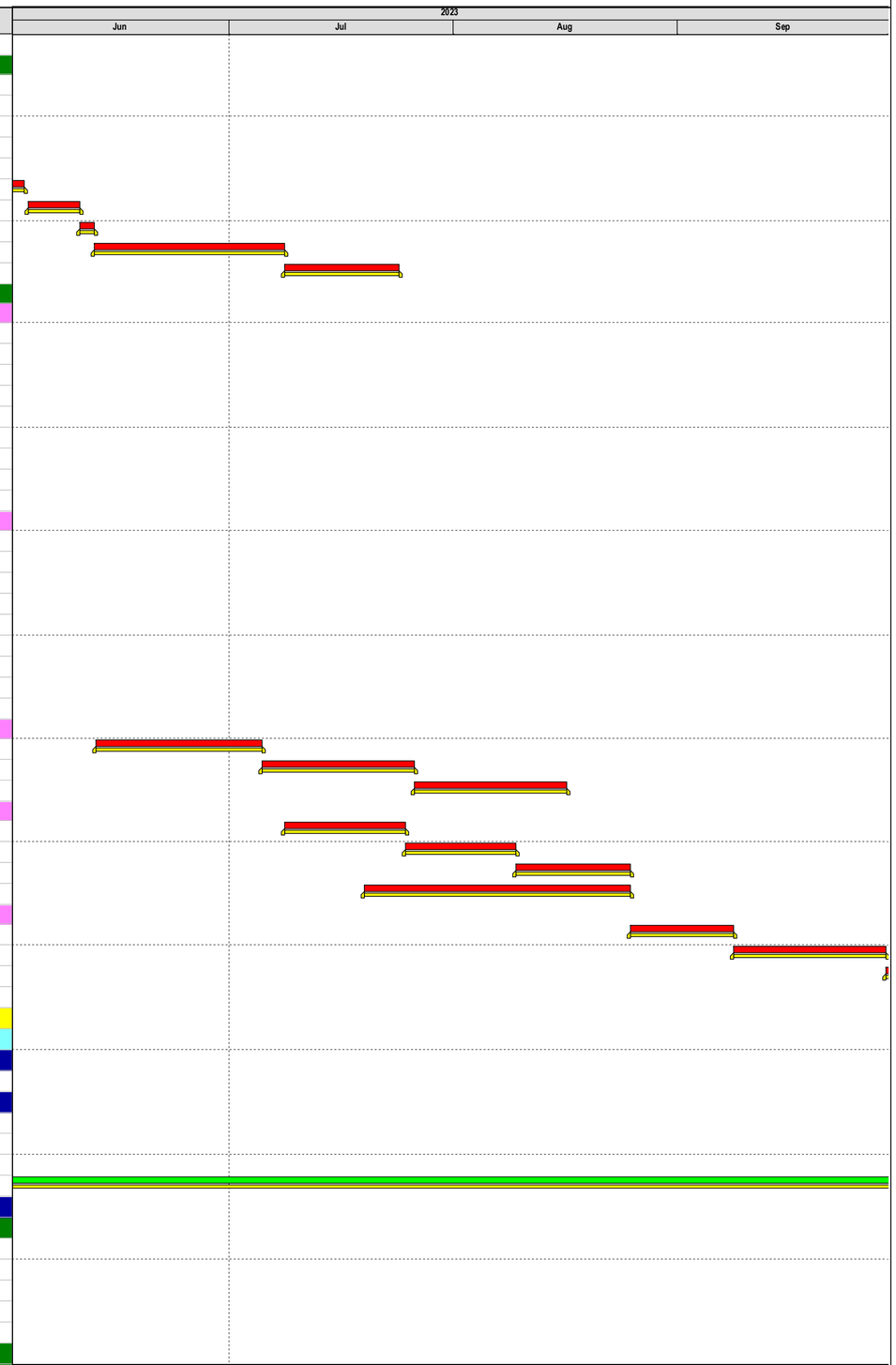
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2194	P8-7060	Backfilling of drain to at grade level	45	45	27-Oct-23	13-Dec-23	-289	0%	ND/2019/02 - 6D (with PH)
2195	**Underground Utilities**		0	0			0	0%	
2196	**Reinstatement**		30	30	13-Mar-24	18-Apr-24	-369	0%	ND/2019/02 - 6D (with PH)
2197	P8-9000	Road formation, reinstatement of disturbed landscape area & Tree Planting (35nos)	30	30	13-Mar-24	18-Apr-24	-369	0%	ND/2019/02 - 6D (with PH)
2198	**Portion 9 - Footbridge**		1140	196	16-Apr-20 A	13-Nov-23	1148	82.81%	
2199	**Footbridge Construction**		1140	196	16-Apr-20 A	13-Nov-23	1148	82.81%	
2200	**Site Posession**		243	0	16-Apr-20 A	21-Aug-20 A		100%	ND/2019/02 - 7D (without PH)
2201	P9-1000	Possession of site - Portion 9 (N)	0	0	16-Apr-20 A			100%	ND/2019/02 - 7D (without PH)
2202	P9-1005	Possession of site - Portion 9 (S)	0	0	21-Aug-20 A			100%	ND/2019/02 - 7D (without PH)
2203	**Site Preparation**		23	0	18-Aug-20 A	19-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
2204	P9-1010	Circulation & Approval of TTAs	21	0	18-Aug-20 A	19-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
2205	**South River Embankment**		790	0	21-Sep-20 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2206	**Piling works Existing Feature: 2SE-B/FR104 (South River Embankment)**		249	0	21-Sep-20 A	07-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
2207	P9-1181	Site Setup, Setup TTA & Plant Mobilization	16	0	21-Sep-20 A	31-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
2208	P9-1190	Erection of temporary retaining wall (3m height; 63nos. concrete blocks)	3	0	30-Oct-20 A	30-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
2209	P9-1200	Site formation to existing ground level (+5.2mPD)	9	0	02-Nov-20 A	28-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
2210	P9-1210	Sheet pile (130nos.12m long ; 10nos./day/rig) (2rig)	6	0	30-Nov-20 A	22-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2211	P9-1220	Pre-Drilling (3 nos.) (4days/nos/rig) (2 rigs)	7	0	21-Dec-20 A	31-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2212	P9-1225	Footpath / Village raod widening & Setup for wheel washing Bay	4	0	05-Jan-21 A	23-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
2213	P9-1228	Setup for Piling Works	4	0	25-Jan-21 A	20-Feb-21 A		100%	ND/2019/02 - 6D (with PH)
2214	P9-1230	Pre-bored H-pile (4 nos. Vertical H-pile & 8 nos. Raking H-Pile) (1 rig)	27	0	22-Feb-21 A	22-May-21 A		100%	ND/2019/02 - 6D (with PH)
2215	P9-1235	Proof Drill	6	0	03-Jun-21 A	07-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
2216	P9-1245	Demobilization of piling rig & site clearance	10	0	24-May-21 A	02-Jun-21 A		100%	ND/2019/02 - 6D (with PH)
2217	**Abutment FK2-04M**		225	0	08-Jun-21 A	09-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2218	P9-1250	ELS from +5.2 mPD to -0.7mPD (approx. 1000m3; 100m3/day)	42	0	08-Jun-21 A	28-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
2219	P9-1260	Pile cutting to Pile Cut-Off level (-0.09mPD) & Installation of Capping Plate	12	0	29-Oct-21 A	21-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
2220	P9-1270	Formwork and falsework for Pile Cap	5	0	30-Nov-21 A	06-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2221	P9-1280	Rebar fixing for Pile Cap	9	0	30-Nov-21 A	09-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2222	P9-1290	Concreting the Pile Cap (approx. 200m3)	1	0	15-Dec-21 A	15-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2223	P9-1293	Curing & Remove Formwork for Pile Cap	12	0	16-Dec-21 A	29-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2224	P9-1295	Rebar fixing for Abutment wall for 1st pour	3	0	30-Dec-21 A	03-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2225	P9-1300	Erection of formwork and falsework for Abutment Wall for 1st pour	5	0	04-Jan-22 A	11-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2226	P9-1310	Concreting the Abutment wall (1st pour)	1	0	12-Jan-22 A	12-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2227	P9-1311	Erection of falsework and working platform for Abutment Wall for 2nd pour	6	0	18-Jan-22 A	21-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2228	P9-1313	Rebar fixing for Abutment wall for 2nd pour	6	0	25-Jan-22 A	26-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2229	P9-1314.1	Bursting Reinforcement fixing	5	0	10-Feb-22 A	15-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2230	P9-1314.5	Cast-in UPVC Pipe delivery	1	0	15-Feb-22 A	15-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2231	P9-1314.7	Cast-in UPVC Pipe installation	2	0	17-Feb-22 A	18-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2232	P9-1314.9	Formwork Erection of abutment wall	4	0	19-Feb-22 A	25-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2233	P9-1315	Concreting the Abutment wall (2nd pour)	1	0	26-Feb-22 A	26-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2234	P9-1320	Curing, Remove Formwork for Abutment wall & modify Falsework for bridge deck construction	10	0	28-Feb-22 A	09-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2235	**Superstructure**		328	0	28-Feb-22 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2236	P9-1634	Original date of delivery of pier formwork	0	0	04-Mar-22 A			100%	ND/2019/02 - 6D (with PH)
2237	P9-1636	Receipt from manufacturer's notification for delay of delivery due to Covid-19	67	0	28-Feb-22 A	18-May-22 A		100%	ND/2019/02 - 6D (with PH)
2238	P9-1637	Delivery of pier mould (South Portion)	0	0	19-May-22 A			100%	ND/2019/02 - 6D (with PH)
2239	P9-1639.01	Modification of Pier mould	7	0	19-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
2240	P9-1639.02	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
2241	P9-1639.03	Modification of Pier mould	6	0	28-May-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2242	P9-1639.04	Inclement Weather on 06 to 09-Jun-2022	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2243	P9-1639.05	Modification of Pier mould	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2244	P9-1639.06	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2245	P9-1639.07	Modification of Pier mould	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2246	P9-1639.08	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2247	P9-1639.09	Modification of Pier mould	9	0	16-Jun-22 A	25-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2248	P9-1639.13	Modification of Working Platform for Pier construction	19	0	31-May-22 A	16-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2249	P9-1640	Falsework & formwork erection of Pier	3	0	27-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2250	P9-1640.1	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2251	P9-1640.12	Inclement Weather on 02-Jul-2022 (T8)	1	0	02-Jul-22 A	02-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2252	P9-1640.14	Inclement Weather on 04-Jul-2022	1	0	04-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2253	P9-1640.2	Cont; Falsework & formwork erection of Pier	18	0	05-Jul-22 A	25-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2254	P9-1650	Rebar Fixing of Pier	8	0	14-Jul-22 A	22-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2255	P9-1660	Concreting the Pier	1	0	26-Jul-22 A	26-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2256	P9-1664	Erection of Falsework and Soffit Formwork for Bridge Deck	18	0	15-Sep-22 A	01-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2257	P9-1670	Formwork of Bridge Deck (1st Pour)	12	0	02-Dec-22 A	15-Dec-22 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2258	P9-1680	Rebar Fixing for Bridge Deck (1st Pour)	14	0	16-Dec-22 A	03-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2259	P9-1690	Concreting of Bridge Deck (1st Pour)	1	0	04-Jan-23 A	04-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2260	P9-1770	Formwork of Bridge Deck (2nd Pour)	16	0	05-Jan-23 A	26-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2261	P9-1780	Rebar Fixing for Bridge Deck (2nd Pour)	9	0	01-Feb-23 A	10-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2262	P9-1790	Concreting of Bridge Deck (2nd Pour)	1	0	11-Feb-23 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2263	P9-1850	Dismantling of falsework and props	3	0	20-Feb-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2264	P9-1860	Dismantling of formwork	3	0	23-Feb-23 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2265	**North River Embankment**		777	0	21-Sep-20 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2266	**Piling works in Existing Feature: 2SE-B/FR107 (North River Embankment)**		397	0	21-Sep-20 A	17-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2267	P9-1020	Site Setup, Setup TTA & Plant Mobilization	16	0	21-Sep-20 A	31-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
2268	P9-1050	Erection of temporary retaining wall (3m height; 63nos. concrete blocks)	3	0	30-Oct-20 A	30-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
2269	P9-1060	Site formation to existing ground level (+5.2mPD)	9	0	02-Nov-20 A	16-Nov-20 A		100%	ND/2019/02 - 6D (with PH)
2270	P9-1070	Sheet pile (130nos.12m long ; 10nos./day/rig) (2rig)	5	0	30-Nov-20 A	24-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2271	P9-1080	Pre-Drilling (6 nos.) (4days/nos/rig) (3 rigs)	7	0	17-Nov-20 A	31-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2272	P9-1085	Site Setup for Piling works (incl. assembly of crawler crane)	16	0	05-Jan-21 A	25-Jan-21 A		100%	ND/2019/02 - 6D (with PH)
2273	P9-1090	Pre-bored H-pile (4 nos. Vertical H-pile & 8 nos. Raking H-Pile) (1 rig)	46	0	26-Jan-21 A	02-Jul-21 A		100%	ND/2019/02 - 6D (with PH)
2274	P9-1093	Demobilization & Site Clearance & Site Formation	30	0	03-Jul-21 A	13-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
2275	P9-1095	Proof Drill	4	0	09-Dec-21 A	17-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2276	**Abutment FK2-01M**		120	0	05-Jan-22 A	23-May-22 A		100%	ND/2019/02 - 6D (with PH)
2277	P9-1110	ELS from +5.2 mPD to -0.7mPD (approx. 1000m3; 100m3/day)	29	0	05-Jan-22 A	17-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2278	P9-1110.1	Works Impacted by adverse weather 17 to 23 Feb 2022	6	0	17-Feb-22 A	23-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2279	P9-1110.2	Site resuming works after adverse weather	4	0	24-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2280	P9-1120	Pile cutting to Pile Cut-Off level & Install Capping Plate (-0.09mPD)	16	0	01-Mar-22 A	18-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2281	P9-1130	Formwork and falsework for Pile Cap	10	0	15-Mar-22 A	25-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2282	P9-1140	Rebar fixing for Pile Cap	10	0	19-Mar-22 A	11-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2283	P9-1150	Concreting the Pile Cap (approx. 200m3)	1	0	12-Apr-22 A	12-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2284	P9-1155	Curing & Remove Formwork for Pile Cap	6	0	13-Apr-22 A	19-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2285	P9-1160	Rebar fixing for Abutment wall for 1st pour	5	0	03-May-22 A	07-May-22 A		100%	ND/2019/02 - 6D (with PH)
2286	P9-1170	Formwork and falsework for Abutment Wall for 1st pour	4	0	03-May-22 A	06-May-22 A		100%	ND/2019/02 - 6D (with PH)
2287	P9-1180	Concreting the Abutment wall (1st pour)	1	0	04-May-22 A	04-May-22 A		100%	ND/2019/02 - 6D (with PH)
2288	P9-1185	Curing & Remove Formwork	5	0	05-May-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
2289	P9-1187	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
2290	P9-1189	Rebar fixing for Abutment wall for 2nd pour	3	0	14-May-22 A	17-May-22 A		100%	ND/2019/02 - 6D (with PH)
2291	P9-1193	Formwork and falsework for Abutment Wall for 2nd pour	4	0	18-May-22 A	21-May-22 A		100%	ND/2019/02 - 6D (with PH)
2292	P9-1197	Concreting the Abutment wall (2nd pour)	1	0	23-May-22 A	23-May-22 A		100%	ND/2019/02 - 6D (with PH)
2293	**Piling Works for Footway Ramp**		133	0	25-Aug-21 A	24-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2294	P9-1440	Piling works for stairway (12 nos. at northern bridge, 1 pile/week/rig, 1 rig)	64	0	25-Aug-21 A	22-Nov-21 A		100%	ND/2019/02 - 6D (with PH)
2295	P9-1450	Pile Load Test (including set up)	6	0	18-Dec-21 A	24-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2296	**Superstructure**		271	0	01-Jun-22 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2297	P9-1597	Delivery of pier formwork (North Portion)	0	0	17-Jun-22 A			100%	ND/2019/02 - 6D (with PH)
2298	P9-1598	Erection of Working Platform for Pier construction	3	0	01-Jun-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2299	P9-1598.02	Inclement Weather on 06 to 09-Jun-2022	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2300	P9-1598.03	Erection of Working Platform for Pier construction	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2301	P9-1598.04	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2302	P9-1598.05	Erection of Working Platform for Pier construction	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2303	P9-1598.06	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2304	P9-1598.07	Modification of Pier mould	11	0	17-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2305	P9-1598.08	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2306	P9-1598.11	Inclement Weather on 02-Jul-2022 (T8)	1	0	02-Jul-22 A	02-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2307	P9-1598.12	Inclement Weather on 04-Jul-2022	1	0	04-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2308	P9-1598.13	Modification of Pier mould	9	0	05-Jul-22 A	14-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2309	P9-1600	Falsework & formwork erection of Pier	17	0	11-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2310	P9-1610	Rebar Fixing of Pier	5	0	25-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2311	P9-1610.2	Inclement Weather on 30-Jul-2022	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2312	P9-1610.3	Inclement Weather on 1-Aug-2022	1	0	01-Aug-22 A	01-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2313	P9-1620	Concreting the Pier	1	0	02-Aug-22 A	02-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2314	P9-1624	Erection of Falsework and Soffit Formwork for Bridge Deck	18	0	15-Sep-22 A	22-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2315	P9-1625	Formwork of Bridge Deck (1st Pour)	10	0	23-Nov-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2316	P9-1635	Rebar Fixing for Bridge Deck (1st Pour)	17	0	03-Dec-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2317	P9-1645	Concreting of Bridge Deck (1st Pour)	1	0	23-Dec-22 A	23-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2318	P9-1800	Formwork of Bridge Deck (2nd Pour)	16	0	24-Dec-22 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2319	P9-1810	Rebar Fixing for Bridge Deck (2nd Pour)	7	0	14-Jan-23 A	28-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2320	P9-1820	Concreting of Bridge Deck (2nd Pour)	1	0	30-Jan-23 A	30-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2321	P9-1830	Dismantling of falsework and props	3	0	06-Feb-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2322	P9-1840	Dismantling of formwork	3	0	09-Feb-23 A	11-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2323	**Middle Bridge Deck**		136	76	22-Feb-23 A	24-Jul-23	-199	44.12%	ND/2019/02 - 6D (with PH)
2324	P9-1590	Erection of middle truss for Middle Deck construction	16	0	22-Feb-23 A	10-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2325	P9-1710	Soffit Formwork Erection	9	0	10-Mar-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2326	P9-1720	Rebar Fixing for Middle Deck (1st Pour)	16	6	21-Mar-23 A	08-May-23	-230	62.5%	ND/2019/02 - 6D (with PH)
2327	P9-1730	Internal Formwork Erection for Middle Deck (1st Pour)	7	7	08-May-23	15-May-23	-230	0%	ND/2019/02 - 6D (with PH)
2328	P9-1745	Concreting for Middle Deck (1st Pour)	1	1	15-May-23	16-May-23	-230	0%	ND/2019/02 - 6D (with PH)
2329	P9-1746	Internal Formwork Erection for Middle Deck (2nd Pour)	16	16	16-May-23	02-Jun-23	-230	0%	ND/2019/02 - 6D (with PH)
2330	P9-1747	Rebar Fixing for Middle Deck (2nd Pour)	7	7	03-Jun-23	10-Jun-23	-230	0%	ND/2019/02 - 6D (with PH)
2331	P9-1748	Concreting for Middle Deck (2nd Pour)	1	1	10-Jun-23	12-Jun-23	-230	0%	ND/2019/02 - 6D (with PH)
2332	P9-1750	Curing & Remove all temporary works	24	24	12-Jun-23	08-Jul-23	-230	0%	ND/2019/02 - 6D (with PH)
2333	P9-1760	Backfilling the cofferdam & Remove sheet pile	14	14	08-Jul-23	24-Jul-23	-199	0%	ND/2019/02 - 6D (with PH)
2334	**Remaining Footbridge Works**		240	180	22-Feb-23 A	13-Nov-23	-230	25%	ND/2019/02 - 6D (with PH)
2335	**Northern Footway Ramp / Staircase**		69	9	22-Feb-23 A	11-May-23	-276	86.96%	ND/2019/02 - 6D (with PH)
2336	P9-NR1000	Excavate to formation level +5.2mPD	4	0	22-Feb-23 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2337	P9-NR1010	RC Works for Lower Portion of ramp foundation	8	0	27-Feb-23 A	07-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2338	P9-NR1020	Formwork dismantle and backfill to finishing ground level	5	0	07-Mar-23 A	11-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2339	P9-NR1030	RC Works for Upper portion of ramp wall, staircase and parapet and Lower ground level U Channel	7	0	11-Mar-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2340	P9-NR1040	Placing drainage materials and Compacted Fill to the void of ramp	6	0	20-Mar-23 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2341	P9-NR1050	Construction of Upper level U Channel	4	0	25-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2342	P9-NR1060	Laying concrete pavement layer and finishing layer	6	5	30-Mar-23 A	06-May-23	-276	16.67%	ND/2019/02 - 6D (with PH)
2343	P9-NR1070	Installation of steel Railing	6	5	30-Mar-23 A	06-May-23	-276	16.67%	ND/2019/02 - 6D (with PH)
2344	P9-NR1080	Installation of Gabion Wall	4	4	06-May-23	11-May-23	-276	0%	ND/2019/02 - 6D (with PH)
2345	**Southern Footway Ramp / Staircase**		68	19	04-Mar-23 A	20-May-23	-142	72.56%	ND/2019/02 - 6D (with PH)
2346	P9-SR1000	Excavate to formation level +5.2mPD	4	0	04-Mar-23 A	08-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2347	P9-SR1010	RC Works for Lower Portion of ramp foundation	8	0	08-Mar-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2348	P9-SR1020	Formwork dismantle and backfill to finishing ground level	5	0	17-Mar-23 A	22-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2349	P9-SR1030	RC Works for Upper portion of ramp wall, staircase and parapet and Lower ground level U Channel	7	0	22-Mar-23 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2350	P9-SR1040	Placing drainage materials and Compacted Fill to the void of ramp	6	5	29-Mar-23 A	06-May-23	-142	20.37%	ND/2019/02 - 6D (with PH)
2351	P9-SR1050	Construction of Upper level U Channel	4	4	06-May-23	10-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2352	P9-SR1060	Laying concrete pavement layer and finishing layer	6	6	10-May-23	17-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2353	P9-SR1070	Installation of steel Railing	6	6	10-May-23	17-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2354	P9-SR1080	Installation of Gabion Wall	4	4	17-May-23	20-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2355	**ABWF Works**		60	60	12-Jun-23	16-Aug-23	-174	0%	ND/2019/02 - 6D (with PH)
2356	P9-1613	Laying of footbridge deck pavings	20	20	12-Jun-23	05-Jul-23	-174	0%	ND/2019/02 - 6D (with PH)
2357	P9-1621	Metal Parapet and Handrail Installation	20	20	05-Jul-23	26-Jul-23	-174	0%	ND/2019/02 - 6D (with PH)
2358	P9-1631	Laying of staircase finishes	20	20	26-Jul-23	16-Aug-23	-174	0%	ND/2019/02 - 6D (with PH)
2359	**BS Works**		45	45	08-Jul-23	25-Aug-23	-230	0%	ND/2019/02 - 6D (with PH)
2360	P9-1595	Bridge Pillar Box Installation	15	15	08-Jul-23	25-Jul-23	-230	0%	ND/2019/02 - 6D (with PH)
2361	P9-1601	Bridge Cable Laying for Lamp Post	15	15	25-Jul-23	09-Aug-23	-230	0%	ND/2019/02 - 6D (with PH)
2362	P9-1602	Bridge Lamp Post Installation	15	15	09-Aug-23	25-Aug-23	-230	0%	ND/2019/02 - 6D (with PH)
2363	P9-1603	South Bridge Drainage works	35	35	19-Jul-23	25-Aug-23	-230	0%	ND/2019/02 - 6D (with PH)
2364	**Landscape Works**		73	73	25-Aug-23	13-Nov-23	-230	0%	ND/2019/02 - 6D (with PH)
2365	P9-1615	Formation of Slope profile by rock fill	14	14	25-Aug-23	08-Sep-23	-230	0%	ND/2019/02 - 6D (with PH)
2366	P9-1617	Placing soil erosion control system (Incl. control mats, geotextile and soil fill)	20	20	08-Sep-23	29-Sep-23	-230	0%	ND/2019/02 - 6D (with PH)
2367	P9-1619	Paving block laying to finished floor level	14	14	29-Sep-23	17-Oct-23	-230	0%	ND/2019/02 - 6D (with PH)
2368	P9-1623	Hydroseeding and tree planting works (11nos)	25	25	17-Oct-23	13-Nov-23	-230	0%	ND/2019/02 - 6D (with PH)
2369	**Works in Section 4**		1800	798	03-Aug-20 A	08-Jul-25	546	55.66%	
2370	**Portion 10 - Visitor Centre**		1800	798	03-Aug-20 A	08-Jul-25	546	55.66%	
2371	**Site Possession**		0	0	03-Aug-20 A	03-Aug-20 A		0%	ND/2019/02 - 6D (with PH)
2372	P10-1000	Possession of site - Portion 10	0	0	03-Aug-20 A			100%	ND/2019/02 - 6D (with PH)
2373	**Pre-construction works**		1327	450	03-Aug-20 A	09-Sep-24	99	66.06%	ND/2019/02 - 6D (with PH)
2374	P10-1010	Temporary haul road	27	0	26-Aug-20 A	30-Oct-20 A		100%	ND/2019/02 - 6D (with PH)
2375	P10-1020	Environmental GI & Submission of Lab report (EGI-7B-01)	18	0	25-Aug-20 A	22-Sep-20 A		100%	ND/2019/02 - 6D (with PH)
2376	P10-1030	Borehole (1nos.), submission & approval of GI Report	59	0	22-Sep-20 A	15-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2377	P10-1040	Tree Protection and Preservation	1327	450	03-Aug-20 A	09-Sep-24	99	66.06%	ND/2019/02 - 6D (with PH)
2378	**Visitor Centre**		1665	798	06-Oct-20 A	08-Jul-25	546	52.06%	
2379	**Foundation**		257	0	06-Oct-20 A	28-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
2380	P10-2000	Pre-Drilling (~10nos.)	18	0	06-Oct-20 A	31-Dec-20 A		100%	ND/2019/02 - 6D (with PH)
2381	P10-2005	Tree Removal & Site Setup	30	0	05-Jan-21 A	20-Feb-21 A		100%	ND/2019/02 - 6D (with PH)
2382	P10-2010	Install H-pile (59 nos.; 1 pile / week/rig, 2 rigs)	164	0	20-Feb-21 A	03-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
2383	P10-2020	Pile Load Test	19	0	04-Aug-21 A	17-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
2384	P10-2070	Proof Drilling	9	0	18-Aug-21 A	28-Aug-21 A		100%	ND/2019/02 - 6D (with PH)
2385	**Excavation**		83	0	28-Sep-21 A	28-Dec-21 A		100%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2386	P10-2030	Excavation and Placement of Concrete Block along the ELS boundary	9	0	28-Sep-21 A	06-Oct-21 A		100%	ND/2019/02 - 6D (with PH)
2387	P10-2040	Sheetpile installation (~85m; approx. 425nos;)	6	0	08-Dec-21 A	15-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2388	P10-2050	Soil Excavation to F.L. for low level Pile Cap (~3840cu.m)	27	0	10-Dec-21 A	28-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2389	**Substructure**		373	0	17-Dec-21 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2390	**Low Level Pile Cap and Basement Slab**		124	0	17-Dec-21 A	20-May-22 A		100%	ND/2019/02 - 6D (with PH)
2391	**Bay 1**		108	0	17-Dec-21 A	01-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2392	P10-2060	Grout Breaking of Socket H Piles (23nos)	6	0	17-Dec-21 A	22-Dec-21 A		100%	ND/2019/02 - 6D (with PH)
2393	P10-2060-1	Low Level Pile Head treatment and Capping Plate Installation	6	0	30-Dec-21 A	07-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2394	P10-2110.11	Backfill with Grade 200 Rockfill	5	0	17-Jan-22 A	21-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2395	P10-2110.13	Erection of formwork for Vertical Blinding	13	0	22-Jan-22 A	08-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2396	P10-2110.23	Concreting of Vertical Blinding	1	0	09-Feb-22 A	09-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2397	P10-2110.24	Patching and remedial works for concrete blinding before waterproofing laying	6	0	10-Feb-22 A	16-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2398	P10-2110.25	Works Impacted by adverse weather	6	0	17-Feb-22 A	23-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2399	P10-2110.26	Site resuming works after adverse weather	4	0	24-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2400	P10-2110.32	Laying of Waterproofing Membrane and testing	12	0	28-Feb-22 A	14-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2401	P10-2110.33	Rebar fixing of Pile Cap and Slab	14	0	15-Mar-22 A	30-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2402	P10-2110.43	Base Slab Shutters	3	0	29-Mar-22 A	31-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2403	P10-2110.53	Base Slab and Pile Cap Concreting (1st Bay)	1	0	01-Apr-22 A	01-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2404	**Bay 2 (Excl. Sump Pump)**		124	0	30-Dec-21 A	20-May-22 A		100%	ND/2019/02 - 6D (with PH)
2405	P10-2110.043	Grout Breaking of Socket H Piles (19nos)	3	0	30-Dec-21 A	04-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2406	P10-2110.053	Low Level Pile Head treatment and Capping Plate Installation	12	0	03-Jan-22 A	15-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2407	P10-2110.063	Backfill with Grade 200 Rockfill	4	0	17-Jan-22 A	21-Jan-22 A		100%	ND/2019/02 - 6D (with PH)
2408	P10-2110.073	Erection of formwork for Vertical Blinding	8	0	31-Jan-22 A	11-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2409	P10-2110.083	Concreting of Vertical Blinding	1	0	09-Feb-22 A	09-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2410	P10-2110.084	Patching and remedial works for concrete blinding before waterproofing laying	6	0	10-Feb-22 A	16-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2411	P10-2110.085	Works Impacted by adverse weather 17-23 Feb 2022	6	0	17-Feb-22 A	23-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2412	P10-2110.086	Site resuming works after adverse weather	4	0	24-Feb-22 A	28-Feb-22 A		100%	ND/2019/02 - 6D (with PH)
2413	P10-2110.093	Laying of Waterproofing Membrane and testing (Excl. sump pump location)	8	0	09-Mar-22 A	17-Mar-22 A		100%	ND/2019/02 - 6D (with PH)
2414	P10-2110.103	Rebar fixing of Pile Cap and Slab	7	0	03-May-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
2415	P10-2110.107	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
2416	P10-2110.109	Rebar fixing of Pile Cap and Slab	2	0	14-May-22 A	16-May-22 A		100%	ND/2019/02 - 6D (with PH)
2417	P10-2110.113	Base Slab Shutters	3	0	17-May-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
2418	P10-2110.123	Base Slab and Pile Cap Concreting (2nd Bay)	1	0	20-May-22 A	20-May-22 A		100%	ND/2019/02 - 6D (with PH)
2419	**Bay 3 (Incl. Sump Pump)**		71	0	01-Mar-22 A	20-May-22 A		100%	ND/2019/02 - 6D (with PH)
2420	P10-2110.511	Patching and remedial works for concrete blinding before waterproofing laying of sump pump location	30	0	01-Mar-22 A	01-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2421	P10-2110.513	Laying of Waterproofing Membrane and testing of sump pump location	5	0	02-Apr-22 A	07-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2422	P10-2110.543	Rebar fixing of Pile Cap and Slab	7	0	03-May-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
2423	P10-2110.546	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
2424	P10-2110.553	Base Slab Shutters	5	0	14-May-22 A	19-May-22 A		100%	ND/2019/02 - 6D (with PH)
2425	P10-2110.563	Base Slab and Pile Cap Concreting (3rd Bay)	1	0	20-May-22 A	20-May-22 A		100%	ND/2019/02 - 6D (with PH)
2426	**Basement Walls & Columns**		218	0	02-Apr-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2427	**Basement Retaining Wall Bay 1**		44	0	02-Apr-22 A	02-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2428	P10-2120.19	Dismantle formwork of Basement Slab	4	0	02-Apr-22 A	06-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2429	P10-2120.21	Dismantle of Corner strut at +3.5mPD	2	0	07-Apr-22 A	08-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2430	P10-2120.31	Basement wall (1st side) Formwork to +7.6mPD	7	0	09-Apr-22 A	20-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2431	P10-2120.35	Basement wall Falsework and working platform to +7.6mPD	16	0	12-Apr-22 A	29-Apr-22 A		100%	ND/2019/02 - 6D (with PH)
2432	P10-2120.41	Basement wall Rebar Fixing to +7.6mPD	22	0	18-Apr-22 A	10-May-22 A		100%	ND/2019/02 - 6D (with PH)
2433	P10-2120.45	Inclement Weather on 11 to 13-May-2022	3	0	11-May-22 A	13-May-22 A		100%	ND/2019/02 - 6D (with PH)
2434	P10-2120.47	Basement wall Rebar Fixing to +7.6mPD	3	0	14-May-22 A	17-May-22 A		100%	ND/2019/02 - 6D (with PH)
2435	P10-2120.51	Basement wall (2nd side) Formwork to +7.6mPD	8	0	18-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
2436	P10-2120.51.1	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
2437	P10-2120.51.2	Basement wall (2nd side) Formwork to +7.6mPD	4	0	28-May-22 A	01-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2438	P10-2120.61	Concreting of Basement wall to +7.6mPD	1	0	02-Jun-22 A	02-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2439	**Basement Retaining Wall Bay 2**		71	0	21-May-22 A	07-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2440	P10-2120.106	Basement wall (1st side) Formwork to +7.6mPD	5	0	21-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
2441	P10-2120.108	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
2442	P10-2120.110	Basement wall (1st side) Formwork to +7.6mPD	2	0	28-May-22 A	30-May-22 A		100%	ND/2019/02 - 6D (with PH)
2443	P10-2120.116	Basement wall Falsework and working platform to +7.6mPD	12	0	31-May-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2444	P10-2120.126	Basement wall Rebar Fixing to +7.6mPD	1	0	04-Jun-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2445	P10-2120.130	Inclement Weather on 06 to 09-Jun-2022	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2446	P10-2120.131	Basement wall Rebar Fixing to +7.6mPD	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2447	P10-2120.132	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2448	P10-2120.133	Basement wall Rebar Fixing to +7.6mPD	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2449	P10-2120.134	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)

2023

Jun | Jul | Aug | Sep

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2450	P10-2120.135	Basement wall Rebar Fixing to +7.6mPD	9	0	16-Jun-22 A	25-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2451	P10-2120.136	Basement wall (2nd side) Formwork to +7.6mPD	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2452	P10-2120.138	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2453	P10-2120.140	Basement wall (2nd side) Formwork to +7.6mPD	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2454	P10-2120.144	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2455	P10-2120.146	Basement wall (2nd side) Formwork to +7.6mPD	12	0	16-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2456	P10-2120.148	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2457	P10-2120.149	Inclement Weather on 02 to 04-Jul-2022	1	0	02-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2458	P10-2120.150	Basement wall (2nd side) Formwork to +7.6mPD	2	0	05-Jul-22 A	06-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2459	P10-2120.152	Concreting of Basement wall to +7.6mPD	1	0	07-Jul-22 A	07-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2460	**Column C4, C5, C8, C9, C12, C13 & C17**		102	0	07-Jul-22 A	11-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2461	P10-2120.636	Basement Column Rebar Fixing to +7.6mPD	3	0	07-Jul-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2462	P10-2120.646	Basement Column Formwork to +7.6mPD	3	0	11-Jul-22 A	13-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2463	P10-2120.656	Concreting of Columns to +7.6mPD (C4, C8, C9, C13, C17)	1	0	14-Jul-22 A	14-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2464	P10-2120.657	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	17	0	15-Jul-22 A	03-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2465	P10-2120.657-1	Inclement Weather on 04 to 05-Aug-2022	2	0	04-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2466	P10-2120.658	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	2	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2467	P10-2120.658-1	Inclement Weather on 09 to 10-Aug-2022	2	0	09-Aug-22 A	10-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2468	P10-2120.659	Concreting of Columns to +7.6mPD (C5, C12)	1	0	11-Aug-22 A	11-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2469	**Basement Retaining Wall Bay 3**		115	0	21-May-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2470	P10-2120.666	Basement wall (1st side) Formwork to +7.6mPD	5	0	21-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
2471	P10-2120.670	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
2472	P10-2120.676	Basement wall Falsework and working platform to +7.6mPD	6	0	28-May-22 A	04-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2473	P10-2120.676-1	Inclement Weather on 06 to 09-Jun-2022	4	0	06-Jun-22 A	09-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2474	P10-2120.686	Basement wall Rebar Fixing to +7.6mPD	1	0	10-Jun-22 A	10-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2475	P10-2120.686-1	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2476	P10-2120.686-2	Basement wall Rebar Fixing to +7.6mPD	2	0	13-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2477	P10-2120.686-3	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2478	P10-2120.686-4	Basement wall Rebar Fixing to +7.6mPD	12	0	16-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2479	P10-2120.686-5	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2480	P10-2120.686-6	Inclement Weather on 02 & 04-Jul-2022	2	0	02-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2481	P10-2120.686-7	Basement wall Rebar Fixing to +7.6mPD	5	0	05-Jul-22 A	09-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2482	P10-2120.696	Basement wall (2nd side) Formwork to +7.6mPD	17	0	11-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2483	P10-2120.696-1	Inclement Weather on 30-Jul-2022	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2484	P10-2120.696-2	Basement wall (2nd side) Formwork to +7.6mPD	3	0	01-Aug-22 A	03-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2485	P10-2120.706	Concreting of Basement wall to +7.6mPD	1	0	04-Aug-22 A	04-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2486	P10-2120.706-1	Inclement Weather on 05-Aug-2022	1	0	05-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2487	P10-2120.836	Dismantling of Basement wall formwork	2	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2488	P10-2120.836-1	Inclement Weather on 09 to 10-Aug-2022	2	0	09-Aug-22 A	10-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2489	P10-2120.836-2	Inclement Weather on 12-Aug-2022	1	0	12-Aug-22 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2490	P10-2120.846	Concrete rectification and Touch Up works	3	0	13-Aug-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2491	P10-2120.846-1	Inclement Weather on 17-Aug-2022	1	0	17-Aug-22 A	17-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2492	P10-2120.856	Basement Wall Waterproofing & Testing	6	0	18-Aug-22 A	24-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2493	P10-2120.856-1	Inclement Weather on 25-Aug-2022	1	0	25-Aug-22 A	25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2494	P10-2120.856-3	Basement Wall Waterproofing & Testing	5	0	26-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2495	**Basement Internal Wall & Staircase**		214	0	21-May-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2496	P10-2120.866	Basement wall (1st side) Formwork to +7.6mPD	5	0	21-May-22 A	26-May-22 A		100%	ND/2019/02 - 6D (with PH)
2497	P10-2120.870	Inclement Weather on 27-May-2022	1	0	27-May-22 A	27-May-22 A		100%	ND/2019/02 - 6D (with PH)
2498	P10-2120.876	Basement wall Falsework and working platform to +7.6mPD	11	0	28-May-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2499	P10-2120.876-1	Inclement Weather on 11-Jun-2022	1	0	11-Jun-22 A	11-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2500	P10-2120.886	Basement wall Rebar Fixing to +7.6mPD	13	0	01-Jun-22 A	14-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2501	P10-2120.886-01	Inclement Weather on 15-Jun-2022	1	0	15-Jun-22 A	15-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2502	P10-2120.886-02	Basement wall Rebar Fixing to +7.6mPD	13	0	16-Jun-22 A	29-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2503	P10-2120.886-03	Inclement Weather on 30-Jun-2022	1	0	30-Jun-22 A	30-Jun-22 A		100%	ND/2019/02 - 6D (with PH)
2504	P10-2120.886-05	Inclement Weather on 02 & 04-Jul-2022	2	0	02-Jul-22 A	04-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2505	P10-2120.886-06	Basement wall Rebar Fixing to +7.6mPD	24	0	05-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2506	P10-2120.886-07	Inclement Weather on 30-Jul-2022	1	0	30-Jul-22 A	30-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2507	P10-2120.886-08	Basement wall Rebar Fixing to +7.6mPD	4	0	01-Aug-22 A	04-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2508	P10-2120.886-09	Inclement Weather on 05-Aug-2022	1	0	05-Aug-22 A	05-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2509	P10-2120.886-10	Basement wall Rebar Fixing to +7.6mPD	4	0	06-Aug-22 A	08-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2510	P10-2120.886-11	Inclement Weather on 09 to 10-Aug-2022	2	0	09-Aug-22 A	10-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2511	P10-2120.886-12	Basement wall Rebar Fixing to +7.6mPD	1	0	11-Aug-22 A	11-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2512	P10-2120.886-13	Inclement Weather on 12-Aug-2022	1	0	12-Aug-22 A	12-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2513	P10-2120.886-14	Basement wall Rebar Fixing to +7.6mPD	4	0	13-Aug-22 A	16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)

2023: Jun | Jul | Aug | Sep

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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Programme Forecast (Jun-Jul-Aug-Sep 2023)

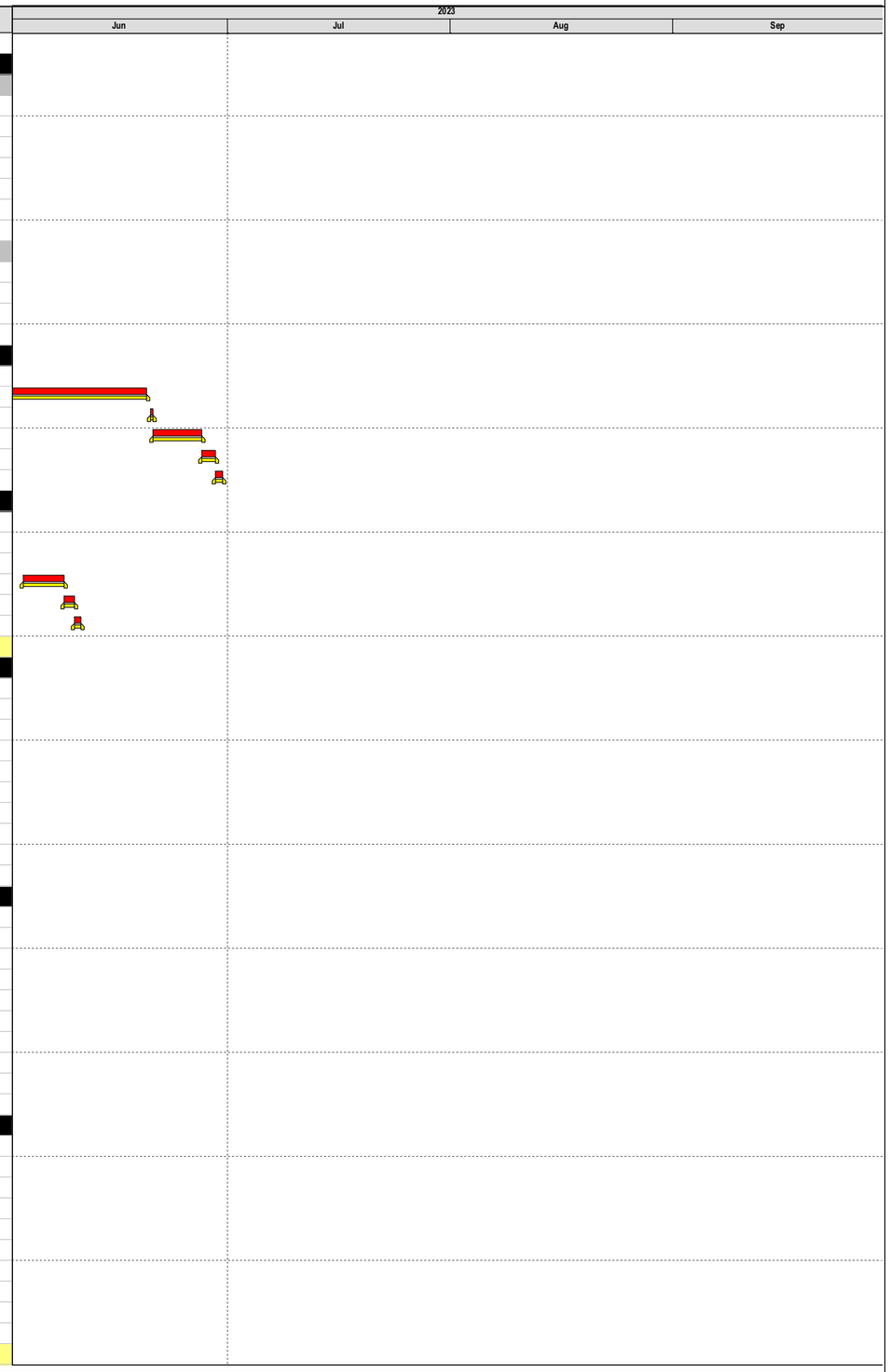
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

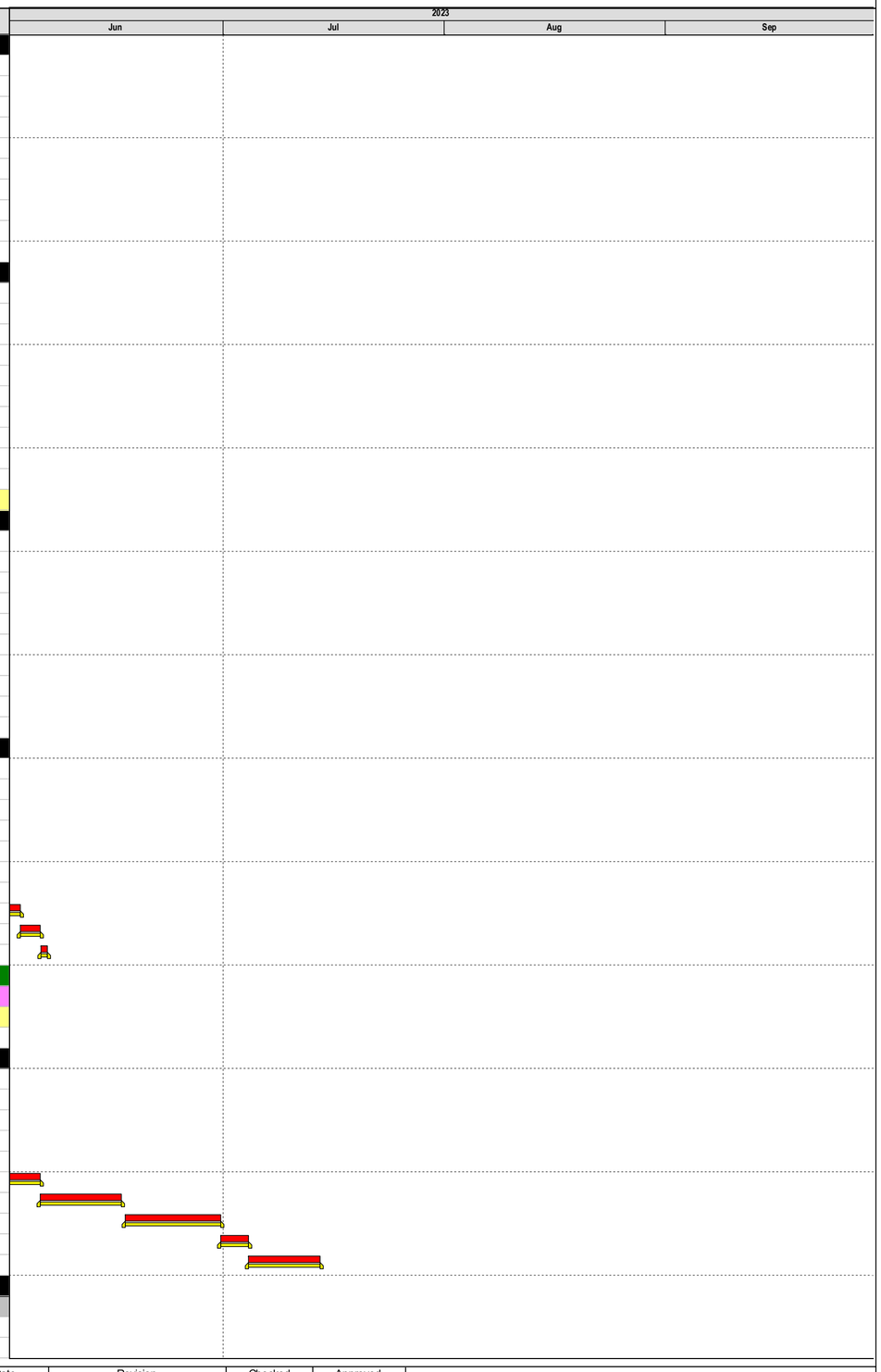
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2514	P10-2120.886-15	Inclement Weather on 17-Aug-2022	1	0	17-Aug-22 A	17-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2515	P10-2120.886-16	Basement wall Rebar Fixing to +7.6mPD	6	0	18-Aug-22 A	24-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2516	P10-2120.886-17	Inclement Weather on 25-Aug-2022	1	0	25-Aug-22 A	25-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2517	P10-2120.886-18	Basement wall Rebar Fixing to +7.6mPD	13	0	26-Aug-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2518	P10-2120.896	Basement staircase Formwork to +7.6mPD	15	0	12-Sep-22 A	29-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2519	P10-2120.896-1	Inclement Weather on 30-Sep-2022	1	0	30-Sep-22 A	30-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2520	P10-2120.896-2	Basement staircase Formwork to +7.6mPD	4	0	03-Oct-22 A	06-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2521	P10-2120.896-3	Inclement Weather on 7 to 8-Oct-2022	2	0	07-Oct-22 A	08-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2522	P10-2120.896-4	Basement staircase Formwork to +7.6mPD	6	0	10-Oct-22 A	15-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2523	P10-2120.896-5	Inclement Weather on 17 to 18-Oct-2022	2	0	17-Oct-22 A	18-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2524	P10-2120.896-6	Basement staircase Formwork to +7.6mPD	11	0	19-Oct-22 A	31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2525	P10-2120.906	Concreting of Basement Internal wall and Staircase to +7.6mPD (1st Pour)	1	0	01-Nov-22 A	01-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2526	P10-2120.908	Removal of excessive concrete from 1st Pour	24	0	03-Nov-22 A	30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2527	P10-2120.910	Erect falsework for 2nd Pour concreting	5	0	01-Dec-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2528	P10-2120.912	Concreting of Basement Internal wall and Staircase to +7.6mPD (2nd Pour)	1	0	07-Dec-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2529	**Basement to G/F Lift Shaft Wall**		94	0	08-Jul-22 A	22-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2530	P10-2120.1116	Basement Lift Shaft wall (1st side) Formwork to +7.6mPD	5	0	08-Jul-22 A	13-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2531	P10-2120.1126	Basement Lift Shaft wall Falsework and working platform to +7.6mPD	10	0	14-Jul-22 A	25-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2532	P10-2120.1136	Basement Lift Shaft wall Rebar Fixing to +7.6mPD	5	0	22-Jul-22 A	27-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2533	P10-2120.1146	Basement Lift Shaft wall (2nd side) Formwork to +7.6mPD	5	0	25-Jul-22 A	29-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2534	P10-2120.1156	Original Concreting of Basement Lift Shaft wall to +7.6mPD	1	0	01-Aug-22 A	01-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2535	P10-2120.1176	Receipt Reply of RFI-176 & 178 for the change of dimension of lift core wall	1	0	02-Aug-22 A	02-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2536	P10-2120.1186	Dismantling of Basement wall formwork and rebar, and re-construct the new lift shaft	16	0	03-Aug-22 A	20-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2537	P10-2120.1196	Deferred Concreting of Basement Lift Shaft wall to +7.6mPD	1	0	22-Aug-22 A	22-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2538	**Basement Water Tank**		90	0	15-Aug-22 A	19-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2539	**Sprinkler Tank**		82	0	19-Aug-22 A	16-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2540	P10-2120.916	Dismantle formwork for retaining wall	4	0	19-Aug-22 A	23-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2541	P10-2120.926	Water Tanks Slab formwork	5	0	24-Aug-22 A	29-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2542	P10-2120.936	Water Tanks Slab Rebar Fixing	4	0	27-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2543	P10-2120.946	Water Tanks Wall formwork	6	0	01-Sep-22 A	07-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2544	P10-2120.956	Water Tanks Wall Rebar Fixing	6	0	08-Sep-22 A	12-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2545	P10-2120.966	Concreting of Water Tank Base Slab & 1st portion of Wall	1	0	13-Sep-22 A	13-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2546	P10-2120.976	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	0	04-Nov-22 A	09-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2547	P10-2120.986	Water tank top slab Rebar Fixing	5	0	10-Nov-22 A	15-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2548	P10-2120.996	Water tank wall and top slab concreting	1	0	16-Nov-22 A	16-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2549	**FS Water Tank**		73	0	24-Aug-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2550	P10-2120.1006	Dismantle formwork for retaining wall	4	0	24-Aug-22 A	27-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2551	P10-2120.1016	Water Tanks Wall formwork	3	0	29-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2552	P10-2120.1026	Water Tanks Wall Rebar Fixing	5	0	01-Sep-22 A	06-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2553	P10-2120.1036	Water Tanks Slab formwork	4	0	07-Sep-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2554	P10-2120.1046	Water Tanks Slab Rebar Fixing	4	0	12-Sep-22 A	15-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2555	P10-2120.1056	Concreting of Water Tanks Base Slab & Wall	1	0	16-Sep-22 A	16-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2556	P10-2120.1066	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	0	31-Oct-22 A	04-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2557	P10-2120.1076	Water tank top slab Rebar Fixing	5	0	05-Nov-22 A	10-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2558	P10-2120.1086	Water tank wall and top slab concreting	1	0	11-Nov-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2559	**Rain Water Tank**		88	0	15-Aug-22 A	17-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2560	P10-2120.446	Dismantle formwork for retaining wall	4	0	15-Aug-22 A	18-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2561	P10-2120.456	Water Tanks Slab formwork	5	0	19-Aug-22 A	24-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2562	P10-2120.466	Water Tanks Slab Rebar Fixing	4	0	23-Aug-22 A	26-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2563	P10-2120.486	Water Tanks Wall formwork	4	0	27-Aug-22 A	31-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2564	P10-2120.536	Water Tanks Wall Rebar Fixing	3	0	01-Sep-22 A	03-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2565	P10-2120.546	Concreting of Water Tanks Base Slab & Wall	1	0	13-Sep-22 A	13-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2566	P10-2120.556	Erect Props for supporting water tank top slab soffit formwork & 2nd portion wall formwork	5	0	05-Nov-22 A	10-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2567	P10-2120.566	Water tank top slab Rebar Fixing	5	0	11-Nov-22 A	16-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2568	P10-2120.576	Water tank wall and top slab concreting	1	0	17-Nov-22 A	17-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2569	**Irrigation water Tank**		84	0	16-Aug-22 A	19-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2570	P10-2120.1096	Receipt E-mail from Project Manager for the change of dimensions of water tank	0	0		16-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2571	P10-2120.1106	Works hold up until further notice	25	0	20-Aug-22 A	17-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2572	P10-2120.496	Dismantle formwork for retaining wall	4	0	19-Sep-22 A	23-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2573	P10-2120.506	Water Tanks wall formwork	5	0	12-Oct-22 A	17-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2574	P10-2120.516	Water Tanks wall Rebar Fixing	4	0	18-Oct-22 A	21-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2575	P10-2120.526	Water Tanks slab formwork	8	0	22-Oct-22 A	31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2576	P10-2120.586	Water Tanks slab Rebar Fixing	5	0	05-Nov-22 A	10-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2577	P10-2120.596	Concreting of Water Tank 1st Portion of wall & Base Slab	1	0	11-Nov-22 A	11-Nov-22 A		100%	ND/2019/02 - 6D (with PH)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2578	P10-2120.606	Erect Props for supporting water tank top slab soffit formwork	3	0	14-Nov-22 A	16-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2579	P10-2120.616	Water tank top slab Rebar Fixing	2	0	17-Nov-22 A	18-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2580	P10-2120.626	Water tank wall and top slab concreting	1	0	19-Nov-22 A	19-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2581	**High Level Pile Cap & Column**		207	0	08-Jul-22 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2582	**C20 to C22**		207	0	08-Jul-22 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2583	P10-2120.156	Dismantling of Basement wall formwork	6	0	08-Jul-22 A	13-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2584	P10-2120.166	Concrete rectification and Touch Up works	3	0	14-Jul-22 A	16-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2585	P10-2120.176	Basement Wall Waterproofing & Testing	6	0	18-Jul-22 A	23-Jul-22 A		100%	ND/2019/02 - 6D (with PH)
2586	P10-2120.196	Backfill of Temp. Slope & level formation of high level slab	19	0	08-Aug-22 A	29-Aug-22 A		100%	ND/2019/02 - 6D (with PH)
2587	P10-2120.206	Grout Breaking of Socket H Piles	3	0	30-Aug-22 A	01-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2588	P10-2120.216	High Level Pile Head treatment and Capping Plate Installation (8nos)	8	0	02-Sep-22 A	10-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2589	P10-2120.226	Casting of Vertical Blinding	10	0	12-Sep-22 A	23-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2590	P10-2120.266	Rebar fixing of Pile Cap and Columns	5	0	24-Sep-22 A	29-Sep-22 A		100%	ND/2019/02 - 6D (with PH)
2591	P10-2120.276	Pile Cap Formwork erection	7	0	05-Oct-22 A	14-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2592	P10-2120.286	High Level Pile Cap Concreting	1	0	15-Oct-22 A	15-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2593	P10-2120.366	Erect Working Platform from Pile Cap Level to 1/F	5	0	03-Feb-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2594	P10-2120.376	Columns Rebar Fixing from Pile Cap Level to 1/F	5	0	09-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2595	P10-2120.386	Columns formwork from Pile Cap Level to 1/F	3	0	15-Feb-23 A	17-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2596	P10-2120.396	Concreting of Columns to 1/F	1	0	18-Feb-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2597	**C19**		70	0	01-Dec-22 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2598	P10-2120.1272	Excavation to expose remaining pile head of C19 Pile Cap	3	0	01-Dec-22 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2599	P10-2120.1276	Grout Breaking of Socket H Piles	3	0	05-Dec-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2600	P10-2120.1286	High Level Pile Head treatment (2nos)	3	0	08-Dec-22 A	10-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2601	P10-2120.1296	Capping Plate Installation (1no)	3	0	12-Dec-22 A	14-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2602	P10-2120.1302	Rebar fixing of Pile Cap and Columns	4	0	03-Jan-23 A	07-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2603	P10-2120.1304	Pile Cap Formwork erection	3	0	09-Jan-23 A	09-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2604	P10-2120.1305	High Level Pile Cap Concreting	1	0	10-Jan-23 A	10-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2605	P10-2120.1307	Dismantling Formwork and install waterproofing Membrane	5	0	11-Jan-23 A	16-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2606	P10-2120.1309	Backfill to formation for erecton of working platform	1	0	13-Jan-23 A	13-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2607	P10-2120.1314	Erect Working Platform from Pile Cap Level to 1/F	5	0	03-Feb-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2608	P10-2120.1316	Columns Rebar Fixing from Pile Cap Level to 1/F	5	0	09-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2609	P10-2120.1326	Columns formwork from Pile Cap Level to 1/F	3	0	15-Feb-23 A	17-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2610	P10-2120.1336	Concreting of Columns to 1/F	1	0	18-Feb-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2611	**C3, C6**		107	0	24-Oct-22 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2612	P10-2120.318	Excavation to re-expose remaining pile head of Pile Caps	7	0	24-Oct-22 A	31-Oct-22 A		100%	ND/2019/02 - 6D (with PH)
2613	P10-2120.322	Grout Breaking of Socket H Piles	3	0	03-Nov-22 A	07-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2614	P10-2120.324	Remaining High Level Pile Head treatment and Capping Plate Installation	2	0	08-Nov-22 A	10-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2615	P10-2120.326	Casting of Vertical Blinding	2	0	26-Nov-22 A	28-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2616	P10-2120.336	Rebar fixing of Pile Cap, Column starter and Strap Beam	2	0	29-Nov-22 A	30-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2617	P10-2120.346	Pile Cap Formwork erection	2	0	30-Nov-22 A	01-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2618	P10-2120.356	High Level Pile Cap, Strap Beam & column kickers Concreting	1	0	02-Dec-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2619	P10-2120.406	Erect Working Platform from Pile Cap Level to 1/F	5	0	03-Feb-23 A	08-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2620	P10-2120.416	Columns Rebar Fixing from Pile Cap Level to 1/F	5	0	09-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2621	P10-2120.426	Columns formwork from Pile Cap Level to 1/F	3	0	15-Feb-23 A	17-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2622	P10-2120.436	Concreting of Columns to 1/F	1	0	18-Feb-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2623	**C10, C14 & C18**		70	0	01-Dec-22 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2624	P10-2120.1360	Excavation to expose remaining pile head of Pile Caps	3	0	01-Dec-22 A	03-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2625	P10-2120.1376	Capping Plate Installation	20	0	05-Dec-22 A	28-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2626	P10-2120.1386	Rebar fixing of Pile Cap, Column starter and Strap Beam	4	0	04-Jan-23 A	07-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2627	P10-2120.1396	Pile Cap Formwork erection	3	0	09-Jan-23 A	11-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2628	P10-2120.1406	High Level Pile Cap, Strap Beam & column kickers Concreting	1	0	12-Jan-23 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2629	P10-2120.1446	Erect Working Platform from Pile Cap Level to 1/F	5	0	04-Feb-23 A	09-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2630	P10-2120.1456	Columns Rebar Fixing from Pile Cap Level to 1/F	4	0	10-Feb-23 A	14-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2631	P10-2120.1466	Columns formwork from Pile Cap Level to 1/F	3	0	15-Feb-23 A	17-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2632	P10-2120.1476	Concreting of Columns to 1/F	1	0	18-Feb-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2633	**Superstructure**		207	55	10-Nov-22 A	30-Jun-23	-150	73.62%	ND/2019/02 - 6D (with PH)
2634	**Ground Floor to Roof Floor**		207	55	10-Nov-22 A	30-Jun-23	-150	73.62%	ND/2019/02 - 6D (with PH)
2635	**B/F to G/F Wall and G/F Slab**		207	55	10-Nov-22 A	30-Jun-23	-150	73.62%	ND/2019/02 - 6D (with PH)
2636	**Bay 1**		32	0	21-Nov-22 A	29-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2637	P10-2350	Erection of falsework and working platform for B/F to G/F	3	0	21-Nov-22 A	28-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2638	P10-2390	Erection of falsework for G/F Slab	7	0	29-Nov-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2639	P10-2400	Erection of Formwork for G/F Slab	7	0	07-Dec-22 A	14-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2640	P10-2410	Rebar Fixing for G/F Slab	7	0	15-Dec-22 A	22-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2641	P10-2420	G/F Slab Shutters	4	0	23-Dec-22 A	28-Dec-22 A		100%	ND/2019/02 - 6D (with PH)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2642	P10-2430	G/F Slab & B/F to G/F wall Concreting	1	0	29-Dec-22 A	29-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2643	**Bay 2**		39	0	10-Nov-22 A	20-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2644	Tx Room Cable Trench and slab		27	0	10-Nov-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2645	P10-2120.776	Trench base slab Falsework / formwork supporting cable trench	7	0	10-Nov-22 A	17-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2646	P10-2120.786	Trench base slab Rebar fixing supporting cable trench	6	0	18-Nov-22 A	24-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2647	P10-2120.792	Trench side formwork	5	0	25-Nov-22 A	26-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2648	P10-2120.796	Trench base slab concreting supporting cable trench	1	0	28-Nov-22 A	28-Nov-22 A		100%	ND/2019/02 - 6D (with PH)
2649	P10-2120.806	Cable trench Wall / Cover slab formwork	4	0	29-Nov-22 A	02-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2650	P10-2120.816	Cable trench Wall / Cover slab Rebar fixing	2	0	05-Dec-22 A	06-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2651	P10-2120.826	Cable trench Wall / Cover slab Concreting	1	0	07-Dec-22 A	07-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2652	G/F Slab		12	0	08-Dec-22 A	20-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2653	P10-4170	Erection of Formwork for G/F Slab	4	0	08-Dec-22 A	12-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2654	P10-4180	Rebar Fixing for G/F Slab	3	0	13-Dec-22 A	15-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2655	P10-4190	G/F Slab Shutters	3	0	16-Dec-22 A	19-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2656	P10-4200	G/F Slab oncreting	1	0	20-Dec-22 A	20-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
2657	**Bay 4 (On Grade Slab) (Toilet)**		55	55	02-May-23	30-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2658	P10-2110.112	Dismantle falseworks from G/F to 1/F	6	6	02-May-23	08-May-23	-131	0%	ND/2019/02 - 6D (with PH)
2659	P10-2110.143	Laying Underground Drainage and testing	20	20	30-May-23	19-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2660	P10-2110.153	Backfilling of Drainages	1	1	20-Jun-23	20-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2661	P10-2110.173	Rebar fixing of on grade Slab	5	5	20-Jun-23	27-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2662	P10-2110.183	Base Slab formwork shutters	2	2	27-Jun-23	29-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2663	P10-2110.193	G/F On Grade Slab Concreting	1	1	29-Jun-23	30-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
2664	**Bay 5 (On Grade Slab) (Tx Room)**		62	38	30-Mar-23 A	10-Jun-23	-140	39.86%	ND/2019/02 - 6D (with PH)
2665	P10-2110.203	Dismantle falseworks from G/F to 1/F	6	6	30-Mar-23 A	06-May-23	-150	7.41%	ND/2019/02 - 6D (with PH)
2666	P10-2110.223	Laying Underground Drainage and testing	20	20	08-May-23	29-May-23	-150	0%	ND/2019/02 - 6D (with PH)
2667	P10-2110.233	Backfilling of Drainages	1	1	30-May-23	30-May-23	-140	0%	ND/2019/02 - 6D (with PH)
2668	P10-2110.243	Rebar fixing of on grade Slab	5	5	02-Jun-23	08-Jun-23	-140	0%	ND/2019/02 - 6D (with PH)
2669	P10-2110.253	Base Slab formwork shutters	2	2	08-Jun-23	09-Jun-23	-140	0%	ND/2019/02 - 6D (with PH)
2670	P10-2110.263	G/F On Grade Slab Concreting	1	1	09-Jun-23	10-Jun-23	-140	0%	ND/2019/02 - 6D (with PH)
2671	**G/F to 1/F Wall and 1/F Slab**		82	0	21-Dec-22 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2672	**Bay 1**		66	0	30-Dec-22 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2673	P10-2620	Erection of falsework and working platform for G/F to 1/F wall	3	0	30-Dec-22 A	03-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2674	P10-2630	Erection of One Side Formwork for G/F to 1/F Wall	3	0	13-Jan-23 A	16-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2675	P10-2640	Rebar Fixing for G/F to 1/F Wall	3	0	17-Jan-23 A	19-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2676	P10-2650	Erection of remaining side formwork for G/F to 1/F Wall	3	0	20-Jan-23 A	26-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2677	P10-2655	G/F to 1/F Wall & Columns Concreting	30	0	12-Jan-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2678	P10-2660	Erection of falsework and working platform for 1/F Slab	3	0	20-Feb-23 A	22-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2679	P10-2670	Erection of Formwork for 1/F Slab	3	0	04-Mar-23 A	07-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2680	P10-2680	Rebar Fixing for 1/F Slab	3	0	07-Mar-23 A	10-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2681	P10-2690	1/F Slab Shutters	2	0	10-Mar-23 A	13-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2682	P10-2700	1/F Slab Concreting	1	0	13-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2683	**Bay 2**		76	0	21-Dec-22 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2684	P10-2710	Erection of falsework and working platform for G/F to 1/F wall	15	0	21-Dec-22 A	09-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2685	P10-2720	Erection of One Side Formwork for G/F to 1/F Wall	17	0	22-Dec-22 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2686	P10-2730	Rebar Fixing for G/F to 1/F Wall	4	0	27-Dec-22 A	17-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2687	P10-2740	Erection of remaining side formwork for G/F to 1/F Wall	5	0	01-Feb-23 A	06-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2688	P10-2745	G/F to 1/F Wall & Columns Concreting	30	0	12-Jan-23 A	18-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2689	P10-2750	Erection of falsework and working platform for 1/F Slab	4	0	17-Feb-23 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2690	P10-2760	Erection of Formwork for 1/F Slab	4	0	06-Mar-23 A	09-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2691	P10-2770	Rebar Fixing for 1/F Slab	4	0	09-Mar-23 A	14-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2692	P10-2780	1/F Slab Shutters	3	0	14-Mar-23 A	16-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2693	P10-2790	1/F Slab Concreting	1	0	16-Mar-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2694	**Bay 3**		52	0	28-Jan-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2695	P10-2800	Erection of falsework and working platform for G/F to 1/F wall	3	0	28-Jan-23 A	31-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
2696	P10-2810	Erection of One Side Formwork for G/F to 1/F Wall	2	0	20-Feb-23 A	21-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2697	P10-2820	Rebar Fixing for G/F to 1/F Wall	2	0	22-Feb-23 A	23-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2698	P10-2830	Erection of remaining side formwork for G/F to 1/F Wall	2	0	24-Feb-23 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
2699	P10-2835	G/F to 1/F Wall & Columns Concreting	7	0	24-Feb-23 A	03-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2700	P10-2840	Erection of falsework and working platform for 1/F Slab	4	0	09-Mar-23 A	13-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2701	P10-2850	Erection of Formwork for 1/F Slab	4	0	13-Mar-23 A	17-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2702	P10-2860	Rebar Fixing for 1/F Slab	3	0	17-Mar-23 A	20-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2703	P10-2870	1/F Slab Shutters	2	0	20-Mar-23 A	22-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2704	P10-2880	1/F Slab Concreting	1	0	22-Mar-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2705	**1/F to +12.850mPD wall and +12.850mPD slab**		50	9	14-Mar-23 A	10-May-23	-171	82.74%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2706		**Bay 1**	43	2	14-Mar-23 A	04-May-23	-165	94.37%	ND/2019/02 - 6D (with PH)
2707	P10-3250	Erection of props for dwarf wall	3	0	14-Mar-23 A	16-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2708	P10-3260	Erection of One Side Formwork for dwarf wall	2	0	16-Mar-23 A	18-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2709	P10-3270	Rebar Fixing for dwarf wall	2	0	18-Mar-23 A	21-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2710	P10-3280	Erection of remaining side formwork for dwarf wall	2	0	21-Mar-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2711	P10-3290	Concreting of drawf wall	1	0	23-Mar-23 A	24-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2712	P10-3300	Dismantling formwork of drawf wall	3	0	24-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2713	P10-3310	Erection of formwork for double slab	2	0	27-Mar-23 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2714	P10-3320	Double slab Rebar fixing	2	0	29-Mar-23 A	02-May-23	-165	77.78%	ND/2019/02 - 6D (with PH)
2715	P10-3330	Double Slab Shutters	1	1	02-May-23	03-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2716	P10-3340	Double Slab Concreting	1	1	03-May-23	04-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2717		**Bay 2**	45	9	17-Mar-23 A	10-May-23	-171	81.17%	ND/2019/02 - 6D (with PH)
2718	P10-3350	Erection of props for dwarf wall	3	0	17-Mar-23 A	21-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2719	P10-3360	Erection of One Side Formwork for dwarf wall	2	0	21-Mar-23 A	23-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2720	P10-3370	Rebar Fixing for dwarf wall	2	0	23-Mar-23 A	25-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2721	P10-3380	Erection of remaining side formwork for dwarf wall	2	0	25-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2722	P10-3390	Concreting of drawf wall	1	0	27-Mar-23 A	28-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2723	P10-3400	Dismantling formwork of drawf wall	3	1	28-Mar-23 A	02-May-23	-171	81.48%	ND/2019/02 - 6D (with PH)
2724	P10-3410	Erection of formwork for double slab	3	3	02-May-23	05-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2725	P10-3420	Double slab Rebar fixing	3	3	05-May-23	08-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2726	P10-3430	Double Slab Shutters	1	1	08-May-23	09-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2727	P10-3440	Double Slab Concreting	1	1	09-May-23	10-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2728		**1/F to R/F Wall and R/F Slab**	30	30	04-May-23	06-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
2729		**Bay 1**	24	24	04-May-23	30-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2730	P10-3810	Erection of falsework and working platform from Double Slab to R/F wall	3	3	04-May-23	06-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2731	P10-3820	Erection of One Side Formwork from Double Slab to R/F wall	3	3	06-May-23	10-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2732	P10-3830	Rebar Fixing from Double Slab to R/F wall	3	3	10-May-23	13-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2733	P10-3840	Erection of remaining side formwork from Double Slab to R/F wall	3	3	13-May-23	16-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2734	P10-3845	Double Slab to R/F wall Concreting	1	1	17-May-23	17-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2735	P10-3850	Erection of falsework and working platform for R/F Slab	4	4	17-May-23	22-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2736	P10-3860	Erection of Formwork for R/F Slab	2	2	22-May-23	24-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2737	P10-3870	Rebar Fixing for R/F Slab	2	2	24-May-23	27-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2738	P10-3880	R/F Slab Shutters	2	2	27-May-23	29-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2739	P10-3890	R/F Slab Concreting	1	1	29-May-23	30-May-23	-165	0%	ND/2019/02 - 6D (with PH)
2740		**Bay 2**	24	24	10-May-23	06-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
2741	P10-3900	Erection of falsework and working platform from Double Slab to R/F wall	3	3	10-May-23	13-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2742	P10-3910	Erection of One Side Formwork from Double Slab to R/F wall	3	3	13-May-23	17-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2743	P10-3920	Rebar Fixing from Double Slab to R/F wall	3	3	17-May-23	19-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2744	P10-3930	Erection of remaining side formwork from Double Slab to R/F wall	3	3	19-May-23	23-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2745	P10-3935	Double Slab to R/F wall Concreting	1	1	23-May-23	24-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2746	P10-3940	Erection of falsework and working platform for R/F Slab	3	3	24-May-23	29-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2747	P10-3950	Erection of Formwork for R/F Slab	3	3	29-May-23	31-May-23	-171	0%	ND/2019/02 - 6D (with PH)
2748	P10-3960	Rebar Fixing for R/F Slab	2	2	31-May-23	02-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
2749	P10-3970	R/F Slab Shutters	2	2	02-Jun-23	05-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
2750	P10-3980	R/F Slab Concreting	1	1	05-Jun-23	06-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
2751		**ABWF / E&M Works**	345	297	06-Mar-23 A	21-Mar-24	-170	13.96%	ND/2019/02 - 6D (with PH)
2752		**Basement Floor**	200	152	06-Mar-23 A	13-Oct-23	-117	24.1%	ND/2019/02 - 6D (with PH)
2753		**Rainwater Harvesting Tank / Irrigation Pump Room**	200	152	06-Mar-23 A	13-Oct-23	-117	24.1%	ND/2019/02 - 6D (with PH)
2754	P10-BFRH-1000	Access Date of B/F Rainwater and Irrigation Room Fitting Out	0	0	06-Mar-23 A			100%	ND/2019/02 - 6D (with PH)
2755		**ABWF**	115	67	06-Mar-23 A	14-Jul-23	-39	41.67%	ND/2019/02 - 6D (with PH)
2756	P10-BFRH-1010	Setting Out	2	0	06-Mar-23 A	08-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2757	P10-BFRH-1020	Water Tanks Props and formwork removal	12	0	08-Mar-23 A	21-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2758	P10-BFRH-1030	Water Tanks water testing before waterproofing and touch up works	6	0	21-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2759	P10-BFRH-1040	Erect Scaffolding for wall and ceiling finishes	2	0	27-Mar-23 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2760	P10-BFRH-1050	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	10	29-Mar-23 A	12-May-23	-91	13.89%	ND/2019/02 - 6D (with PH)
2761	P10-BFRH-1060	Wall Finishes (Wall waterproofing, plastering, Skim Coat and 1st Coat Painting)	21	21	12-May-23	05-Jun-23	-91	0%	ND/2019/02 - 6D (with PH)
2762	P10-BFRH-1070	Water tanks waterproofing and tiling	12	12	05-Jun-23	16-Jun-23	-91	0%	ND/2019/02 - 6D (with PH)
2763	P10-BFRH-1080	Concrete Plinth Casting and finishes	12	12	17-Jun-23	30-Jun-23	-91	0%	ND/2019/02 - 6D (with PH)
2764	P10-BFRH-1090	Floor Screeding	2	2	30-Jun-23	04-Jul-23	-91	0%	ND/2019/02 - 6D (with PH)
2765	P10-BFRH-1100	Access Panel and Cat Ladder Installation to water tank and door installation	10	10	04-Jul-23	14-Jul-23	-39	0%	ND/2019/02 - 6D (with PH)
2766		**BS Works**	178	152	29-Mar-23 A	13-Oct-23	-117	14.7%	ND/2019/02 - 6D (with PH)
2767		**MVAC**	24	9	29-Mar-23 A	10-May-23	20	63.75%	ND/2019/02 - 6D (with PH)
2768	P10-BFRH-1110	Setting out for all equipment / MOS inspection	3	0	29-Mar-23 A	02-May-23	20	90%	ND/2019/02 - 6D (with PH)
2769	P10-BFRH-1120	Air Duct installation	21	8	01-Apr-23 A	10-May-23	20	60%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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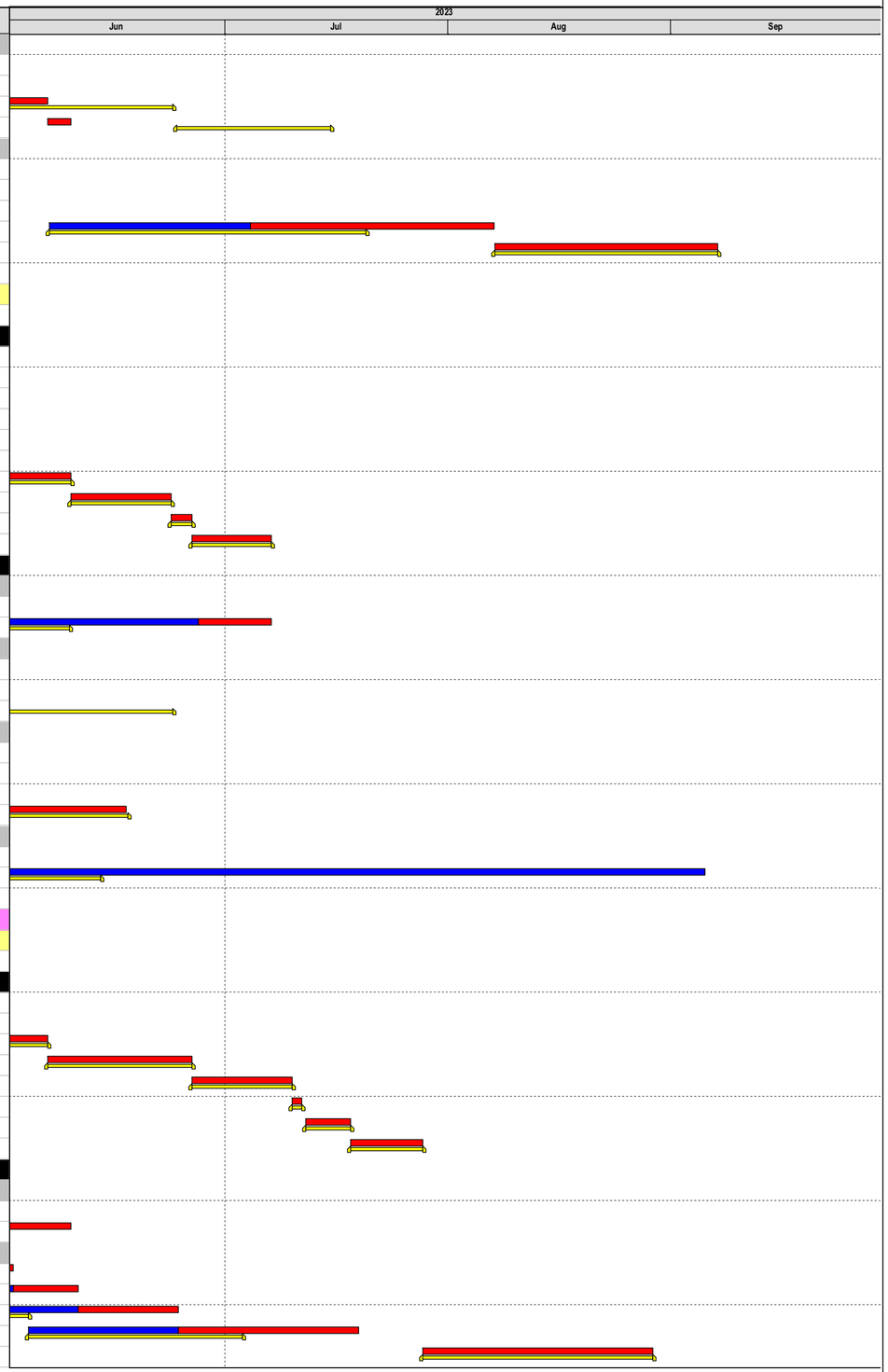
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2770		PD	95	37	29-Mar-23 A	09-Jun-23	-38	61.58%	ND/2019/02 - 6D (with PH)
2771	P10-BFRH-1130	setting out for all equipment / MOS inspection	10	3	29-Mar-23 A	04-May-23	-38	70%	ND/2019/02 - 6D (with PH)
2772	P10-BFRH-1140	Installation of inertia block, FRP water tank, pressure pipe	30	12	13-Apr-23 A	17-May-23	-38	60%	ND/2019/02 - 6D (with PH)
2773	P10-BFRH-1150	Installation of pipework, pumps, LMCP and accessories	35	18	16-May-23 A	06-Jun-23	-38	50%	ND/2019/02 - 6D (with PH)
2774	P10-BFRH-1220	Sump Pit Installation	20	4	24-Jun-23 A	09-Jun-23	-38	80%	ND/2019/02 - 6D (with PH)
2775		EL	178	152	29-Mar-23 A	13-Oct-23	-117	14.7%	ND/2019/02 - 6D (with PH)
2776	P10-BFRH-1160	Setting out for all equipment / MOS inspection	2	0	29-Mar-23 A	02-May-23	-55	83.33%	ND/2019/02 - 6D (with PH)
2777	P10-BFRH-1170	Installation of cable containments	15	5	31-Mar-23 A	06-May-23	-55	70%	ND/2019/02 - 6D (with PH)
2778	P10-BFRH-1180	Cable wiring	20	16	20-Apr-23 A	23-May-23	-55	20%	ND/2019/02 - 6D (with PH)
2779	P10-BFRH-1190	Installation of Lighting fitting and small power provision	40	32	06-Jun-23 A	07-Aug-23	-91	20%	ND/2019/02 - 6D (with PH)
2780	P10-BFRH-1200	Plants Installation	30	30	07-Aug-23	07-Sep-23	-91	0%	ND/2019/02 - 6D (with PH)
2781	P10-BFRH-1210	T&C of rain harvesting & Irrigation Plants	6	6	07-Oct-23	13-Oct-23	-117	0%	ND/2019/02 - 6D (with PH)
2782		**Sprinkler & FS Pump Room**	199	151	06-Mar-23 A	12-Oct-23	-157	24.22%	ND/2019/02 - 6D (with PH)
2783	P10-BFFS-1000	Access Date of B/F Sprinkler and FS Pump Room Fitting Out	0	0	06-Mar-23 A			100%	ND/2019/02 - 6D (with PH)
2784		**ABWF**	108	60	06-Mar-23 A	07-Jul-23	-72	44.36%	ND/2019/02 - 6D (with PH)
2785	P10-BFFS-1100	Water Tanks Props and formwork removal	2	0	06-Mar-23 A	08-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2786	P10-BFFS-1110	Setting Out	12	0	08-Mar-23 A	21-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2787	P10-BFFS-1120	Water Tanks water testing before waterproofing and touch up works	6	0	21-Mar-23 A	27-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2788	P10-BFFS-1130	Erect Scaffolding for wall and ceiling finishes	2	0	27-Mar-23 A	29-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2789	P10-BFFS-1140	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	10	29-Mar-23 A	12-May-23	-72	13.89%	ND/2019/02 - 6D (with PH)
2790	P10-BFFS-1150	Wall Finishes (Wall waterproofing, plastering, Skim Coat and 1st Coat Painting)	14	14	12-May-23	27-May-23	-72	0%	ND/2019/02 - 6D (with PH)
2791	P10-BFFS-1160	Water tanks waterproofing and tiling	12	12	27-May-23	09-Jun-23	-72	0%	ND/2019/02 - 6D (with PH)
2792	P10-BFFS-1170	Concrete Plinth Casting and finishes	12	12	09-Jun-23	23-Jun-23	-72	0%	ND/2019/02 - 6D (with PH)
2793	P10-BFFS-1180	Floor Screeding	2	2	23-Jun-23	26-Jun-23	-72	0%	ND/2019/02 - 6D (with PH)
2794	P10-BFFS-1200	Access Panel and Cat Ladder Installation to water tank and door installation	10	10	26-Jun-23	07-Jul-23	-72	0%	ND/2019/02 - 6D (with PH)
2795		**BS Works**	177	151	29-Mar-23 A	12-Oct-23	-157	14.78%	ND/2019/02 - 6D (with PH)
2796		MVAC	62	60	29-Mar-23 A	07-Jul-23	-72	2.69%	ND/2019/02 - 6D (with PH)
2797	P10-BFFS-1010	Setting out for all equipment / MOS inspection	3	1	29-Mar-23 A	03-May-23	-22	55.56%	ND/2019/02 - 6D (with PH)
2798	P10-BFFS-1020	Air Duct installation	18	9	20-May-23 A	07-Jul-23	-72	50%	ND/2019/02 - 6D (with PH)
2799		PD	75	8	29-Mar-23 A	09-May-23	-19	90%	ND/2019/02 - 6D (with PH)
2800	P10-BFFS-1030	Setting out for all equipment / MOS inspection	10	1	29-Mar-23 A	02-May-23	-19	90%	ND/2019/02 - 6D (with PH)
2801	P10-BFFS-1040	Installation of inertia block, FRP water tank, pressure	30	3	13-Apr-23 A	05-May-23	-19	90%	ND/2019/02 - 6D (with PH)
2802	P10-BFFS-1050	Installation of pipework, pumps, LMCP and accessories	35	4	16-May-23 A	09-May-23	-19	90%	ND/2019/02 - 6D (with PH)
2803		EL	70	44	29-Mar-23 A	17-Jun-23	-55	37.86%	ND/2019/02 - 6D (with PH)
2804	P10-BFFS-1060	Setting out for all equipment / MOS inspection	10	3	29-Mar-23 A	04-May-23	-55	70%	ND/2019/02 - 6D (with PH)
2805	P10-BFFS-1070	Installation of cable containment	5	3	13-Apr-23 A	06-May-23	-55	50%	ND/2019/02 - 6D (with PH)
2806	P10-BFFS-1080	Cable wiring	20	10	19-Apr-23 A	17-May-23	-55	50%	ND/2019/02 - 6D (with PH)
2807	P10-BFFS-1090	Installation of Lighting fitting and small power provision	35	28	11-May-23 A	17-Jun-23	-55	20%	ND/2019/02 - 6D (with PH)
2808		FS	155	130	26-Apr-23 A	12-Oct-23	-157	15.82%	ND/2019/02 - 6D (with PH)
2809	P10-BFFS-1190	FS 1st Fixing	15	2	26-Apr-23 A	24-May-23	-34	90%	ND/2019/02 - 6D (with PH)
2810	P10-BFFS-1220	FS Sprinkler Pump Installation	14	0	30-May-23 A	05-Sep-23	-129	100%	ND/2019/02 - 6D (with PH)
2811	P10-BFFS-1230	T&C of FS Plants	5	5	07-Oct-23	12-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
2812		**Ground Floor**	308	281	28-Mar-23 A	05-Mar-24	-157	8.78%	ND/2019/02 - 6D (with PH)
2813		**Generator Room**	124	104	26-Apr-23 A	08-Sep-23	-127	16.43%	ND/2019/02 - 6D (with PH)
2814	P10-GFGS1000	Access Date of G/F Generator Room Fitting Out	0	0	18-May-23		-132	0%	ND/2019/02 - 6D (with PH)
2815		**ABWF**	64	64	18-May-23	28-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
2816	P10-GFGS1010	Setting Out	2	2	18-May-23	20-May-23	-132	0%	ND/2019/02 - 6D (with PH)
2817	P10-GFGS1020	Erect Scaffolding for wall and ceiling finishes	2	2	20-May-23	23-May-23	-132	0%	ND/2019/02 - 6D (with PH)
2818	P10-GFGS1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	23-May-23	06-Jun-23	-132	0%	ND/2019/02 - 6D (with PH)
2819	P10-GFGS1040	Wall Finishes (Wall plastering, Tiling, Skim Coat and 1st Coat Painting)	18	18	06-Jun-23	26-Jun-23	-132	0%	ND/2019/02 - 6D (with PH)
2820	P10-GFGS1050	Concrete Plinth Casting and finishes	12	12	26-Jun-23	10-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
2821	P10-GFGS1060	Floor Screeding	2	2	10-Jul-23	11-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
2822	P10-GFGS1070	Access Panel Installation to Generator Room	6	6	12-Jul-23	18-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
2823	P10-GFGS1080	Floor epoxy Painting & door installation	10	10	18-Jul-23	28-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
2824		**BS Works**	124	100	26-Apr-23 A	08-Sep-23	-127	19.64%	ND/2019/02 - 6D (with PH)
2825		MVAC	21	16	26-Apr-23 A	09-Jun-23	-89	24.29%	ND/2019/02 - 6D (with PH)
2826	P10-GFGS1110	Setting out for all equipment / MOS inspection	3	2	26-Apr-23 A	24-May-23	-124	50%	ND/2019/02 - 6D (with PH)
2827	P10-GFGS1120	Air Duct installation	18	14	29-Apr-23 A	09-Jun-23	-89	20%	ND/2019/02 - 6D (with PH)
2828		EL	124	100	26-Apr-23 A	08-Sep-23	-132	19.64%	ND/2019/02 - 6D (with PH)
2829	P10-GFGS1130	Setting out for all equipment / MOS inspection	10	8	26-Apr-23 A	01-Jun-23	-124	20%	ND/2019/02 - 6D (with PH)
2830	P10-GFGS1140	Installation of cable containment	10	9	08-May-23 A	10-Jun-23	-124	10%	ND/2019/02 - 6D (with PH)
2831	P10-GFGS1150	Cable wiring	15	12	18-May-23 A	24-Jun-23	-124	20%	ND/2019/02 - 6D (with PH)
2832	P10-GFGS1160	Installation of Lighting fitting and small power provision	25	23	03-Jun-23 A	19-Jul-23	-124	10%	ND/2019/02 - 6D (with PH)
2833	P10-GFGS1170	Genset Installation	30	30	28-Jul-23	29-Aug-23	-132	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

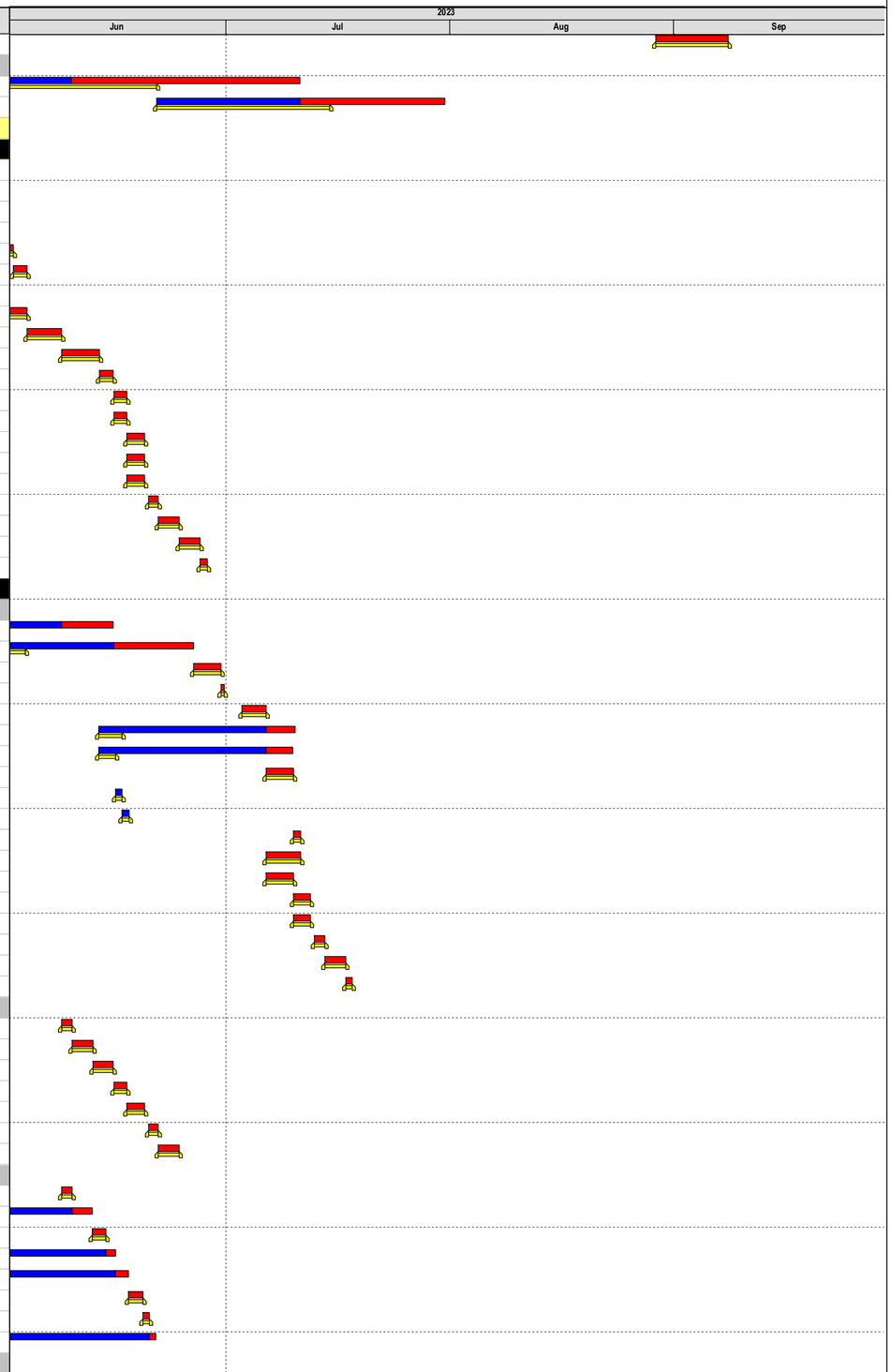
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 44 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2834	P10-GFGS1180	T&C of Genset	10	10	29-Aug-23	08-Sep-23	-132	0%	ND/2019/02 - 6D (with PH)
2835	FS		51	46	19-May-23 A	31-Jul-23	-89	10%	ND/2019/02 - 6D (with PH)
2836	P10-GFGS1090	FS Piping, cable containment Installation	30	27	19-May-23 A	11-Jul-23	-89	10%	ND/2019/02 - 6D (with PH)
2837	P10-GFGS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	19	21-Jun-23 A	31-Jul-23	-89	10%	ND/2019/02 - 6D (with PH)
2838	Tx Room / Switch Room		135	123	12-May-23 A	06-Oct-23	-167	9.19%	ND/2019/02 - 6D (with PH)
2839	ABWF		30	30	25-May-23	28-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2840	P10-Tx1000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	0	25-May-23		-167	0%	ND/2019/02 - 6D (with PH)
2841	P10-Tx1100	Setting Out	2	2	25-May-23	29-May-23	-167	0%	ND/2019/02 - 6D (with PH)
2842	P10-Tx1105	Access Date of Tx Room Double Slab Builders works	0	0	25-May-23		-167	0%	ND/2019/02 - 6D (with PH)
2843	P10-Tx1107	Formwork dismantling and touch up works	3	3	25-May-23	29-May-23	-167	0%	ND/2019/02 - 6D (with PH)
2844	P10-Tx1108	Waterproofing works of Tx Room Double Slab	3	3	30-May-23	01-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2845	P10-Tx1109	Flooding Test and Infra Red test after waterproofing	2	2	01-Jun-23	03-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2846	P10-Tx1110	Erect Scaffolding for wall and ceiling finishes of Tx Rm	1	1	29-May-23	29-May-23	-167	0%	ND/2019/02 - 6D (with PH)
2847	P10-Tx1120	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	5	5	30-May-23	03-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2848	P10-Tx1130	Wall Finishes (Wall plastering, Lourve Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	4	4	03-Jun-23	08-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2849	P10-Tx1140	Cable Trench Plastering	5	5	08-Jun-23	13-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2850	P10-Tx1150	Cable Trench Angle Frame Installation	2	2	13-Jun-23	15-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2851	P10-Tx1160	Floor Screeding	2	2	15-Jun-23	17-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2852	P10-Tx1170	Metal Door Frame Installation	2	2	15-Jun-23	17-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2853	P10-Tx1180	Ceiling And Wall Painting (Final Coat)	2	2	17-Jun-23	19-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2854	P10-Tx1190	Chequer Plate Installation	2	2	17-Jun-23	19-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2855	P10-Tx1195	Lourves Installation	2	2	17-Jun-23	19-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2856	P10-Tx1200	Painting to Chequer Plate	2	2	20-Jun-23	21-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2857	P10-Tx1210	Floor Dust Proof Coating	2	2	21-Jun-23	24-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2858	P10-Tx1220	Durasteel Installation to Air Duct	2	2	24-Jun-23	27-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2859	P10-Tx1230	Metal Door Leaf Installation	1	1	27-Jun-23	28-Jun-23	-148	0%	ND/2019/02 - 6D (with PH)
2860	BS Works		135	111	12-May-23 A	06-Oct-23	-167	18.05%	ND/2019/02 - 6D (with PH)
2861	Electrical Works		60	36	12-May-23 A	18-Jul-23	-167	40.44%	ND/2019/02 - 6D (with PH)
2862	P10-Tx1240	Intallation (Electrical) of Conduit / Cable Containment at Tx Room	10	7	12-May-23 A	15-Jun-23	-167	30%	ND/2019/02 - 6D (with PH)
2863	P10-Tx1250	Cable Wiring at Tx Room	10	9	23-May-23 A	26-Jun-23	-167	10%	ND/2019/02 - 6D (with PH)
2864	P10-Tx1260	Installation of Light Fitting at Tx Room	4	4	26-Jun-23	30-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2865	P10-Tx1270	Delivery of Cable Tray	1	1	30-Jun-23	30-Jun-23	-167	0%	ND/2019/02 - 6D (with PH)
2866	P10-Tx1530	Installation of Cable Tray over ceiling	4	4	03-Jul-23	06-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2867	P10-Tx1540	Intallation (Electrical) of Conduit at Switch Room	4	3	13-Jun-23 A	10-Jul-23	-167	20%	ND/2019/02 - 6D (with PH)
2868	P10-Tx1550	Cable Wiring at Switch Room	3	3	13-Jun-23 A	10-Jul-23	-161	10%	ND/2019/02 - 6D (with PH)
2869	P10-Tx1560	Installation of Light Fitting at Switch Room	3	3	06-Jul-23	10-Jul-23	-161	0%	ND/2019/02 - 6D (with PH)
2870	P10-Tx1570	FAT of Switchboard	1	0	15-Jun-23 A	16-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
2871	P10-Tx1580	Delivery and assembly of Switchboard at Switch Room	1	0	16-Jun-23 A	17-Jun-23 A		100%	ND/2019/02 - 6D (with PH)
2872	P10-Tx1590	SAT of Switchboard	1	1	10-Jul-23	11-Jul-23	-161	0%	ND/2019/02 - 6D (with PH)
2873	P10-Tx1600	Installation of MCB Board	4	4	06-Jul-23	11-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2874	P10-Tx1610	Installation of Earthing System at Tx Room and Switch Room	3	3	06-Jul-23	10-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2875	P10-Tx1620	System T&C (Electrical Works)	3	3	10-Jul-23	12-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2876	P10-Tx1630	Installation of Lighting conductors	3	3	10-Jul-23	12-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2877	P10-Tx1640	Installation of Lightning Pits	2	2	13-Jul-23	14-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2878	P10-Tx1650	Installation of Earthing Pits	2	2	14-Jul-23	17-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2879	P10-Tx1660	Earthing and Lightning T&C	1	1	17-Jul-23	18-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2880	MVAC Works		15	15	08-Jun-23	24-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2881	P10-Tx1680	Intallation (MVAC) of Conduit at Tx Room	2	2	08-Jun-23	09-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2882	P10-Tx1690	Cable Wiring & Cable Containment (MVAC) of Conduit at Tx Room	2	2	09-Jun-23	12-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2883	P10-Tx1700	Installation of Fan and Air Duct at Tx Room	3	3	12-Jun-23	15-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2884	P10-Tx1710	Installation of Fan Controller at Tx Room	2	2	15-Jun-23	17-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2885	P10-Tx1720	Installation of Fan and Air Duct at Switchroom	2	2	17-Jun-23	19-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2886	P10-Tx1730	Installation of LMCP at Switchroom	2	2	20-Jun-23	21-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2887	P10-Tx1740	System T&C (MVAC Works)	2	2	21-Jun-23	24-Jun-23	-146	0%	ND/2019/02 - 6D (with PH)
2888	FS Works		34	12	13-May-23 A	21-Jun-23	-144	63.66%	ND/2019/02 - 6D (with PH)
2889	P10-Tx1770	Intallation (FS) of Conduit at Tx Room	2	2	08-Jun-23	09-Jun-23	-144	0%	ND/2019/02 - 6D (with PH)
2890	P10-Tx1780	Cable Wiring (FS) of Conduit at Tx Room	2	2	13-May-23 A	12-Jun-23	-144	10%	ND/2019/02 - 6D (with PH)
2891	P10-Tx1790	Installation of Heat Detector at Tx Room	2	2	12-Jun-23	14-Jun-23	-144	0%	ND/2019/02 - 6D (with PH)
2892	P10-Tx1800	Installation of (FS) Conduit at Switchroom	2	2	18-May-23 A	15-Jun-23	-144	10%	ND/2019/02 - 6D (with PH)
2893	P10-Tx1810	Cable Wiring (FS) of Conduit at Switchroom	2	2	20-May-23 A	17-Jun-23	-144	10%	ND/2019/02 - 6D (with PH)
2894	P10-Tx1820	Installation of Heat Detector at Switchroom	1	1	17-Jun-23	19-Jun-23	-144	0%	ND/2019/02 - 6D (with PH)
2895	P10-Tx1830	Installation of AFA panel and audio / visual alarm equipment	1	1	19-Jun-23	20-Jun-23	-144	0%	ND/2019/02 - 6D (with PH)
2896	P10-Tx1840	System T&C (FS Works)	1	1	24-May-23 A	21-Jun-23	-144	10%	ND/2019/02 - 6D (with PH)
2897	CLP works & Statutory Inspection		75	75	18-Jul-23	06-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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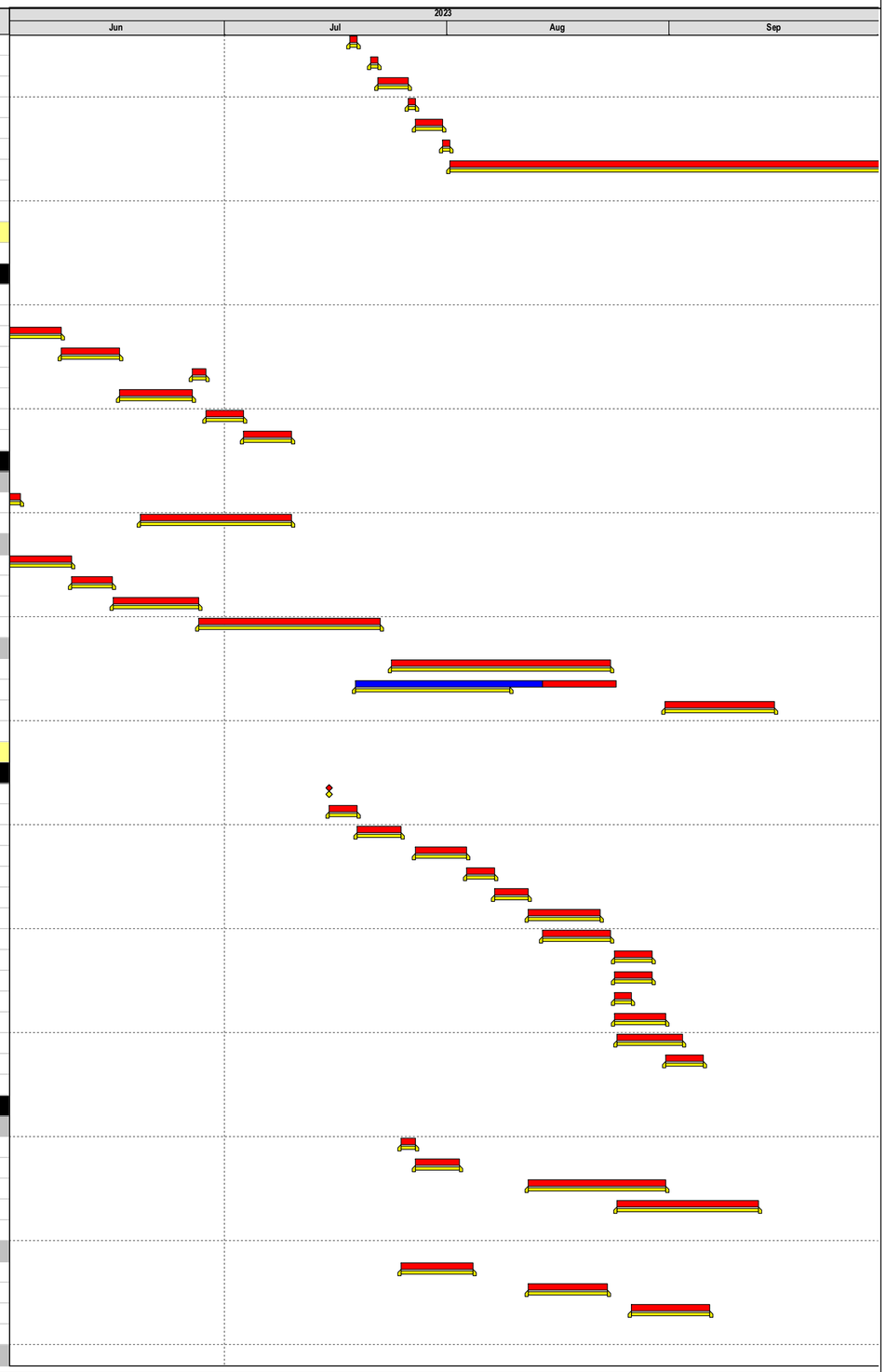
Programme Forecast (Jun-Jul-Aug-Sep 2023)

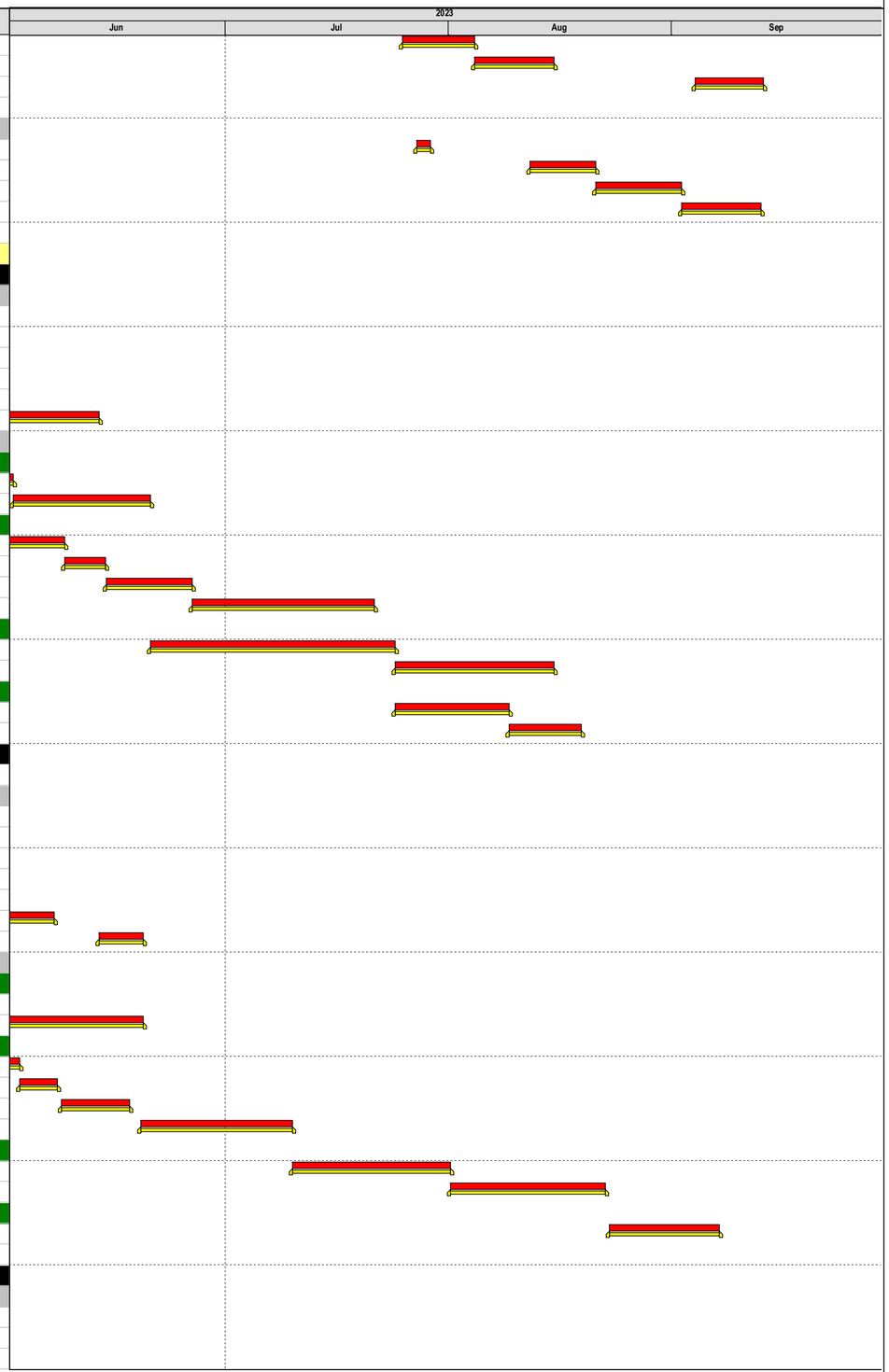
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

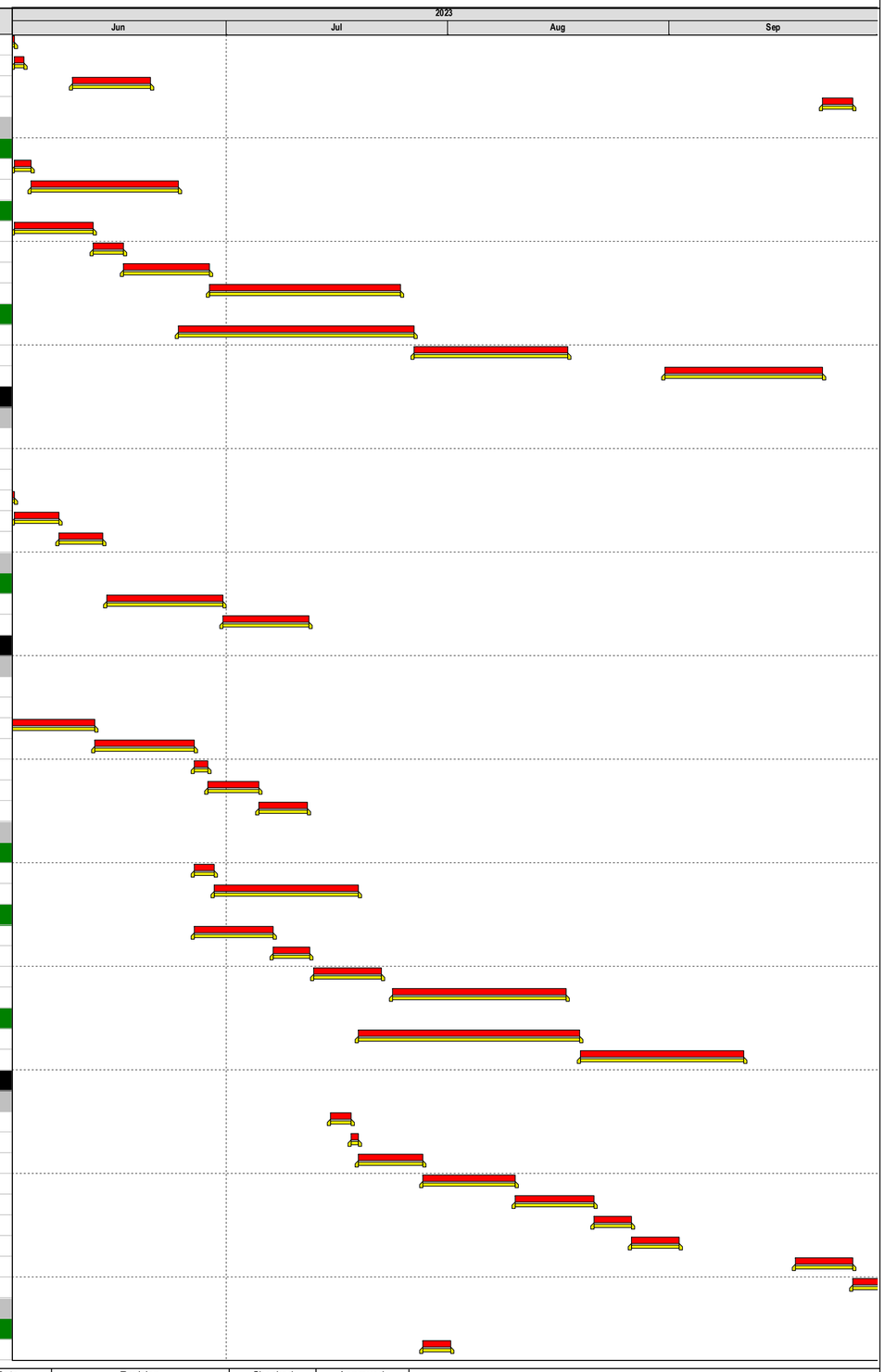
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2898	P10-Tx1850	Submit WR1	1	1	18-Jul-23	19-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2899	P10-Tx2000	1st CLP Inspection of Tx Room	1	1	21-Jul-23	22-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2900	P10-Tx2010	1st Defect Rectification	4	4	22-Jul-23	26-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2901	P10-Tx2020	2nd CLP Inspection of Tx Room	1	1	26-Jul-23	27-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2902	P10-Tx2030	2nd Defect Rectification	3	3	27-Jul-23	31-Jul-23	-167	0%	ND/2019/02 - 6D (with PH)
2903	P10-Tx2040	Handover Inspection with CLP	1	1	31-Jul-23	01-Aug-23	-167	0%	ND/2019/02 - 6D (with PH)
2904	P10-Tx2050	CLP Installation Works	60	60	01-Aug-23	05-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2905	P10-Tx2055	Energization of Tx Equipment	1	1	05-Oct-23	06-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2906	P10-Tx2060	CLP Meter Installation (Permenant Power On)	1	1	06-Oct-23	06-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2907	**FS Control Room**		138	138	25-May-23 A	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2908	P10-GFFS1020	Access Date of G/F FS control Room Fitting Out	0	0	25-May-23		-142	0%	ND/2019/02 - 6D (with PH)
2909	**ABWF**		40	40	25-May-23	10-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
2910	P10-GFFS1050	Setting Out	2	2	25-May-23	29-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2911	P10-GFFS1060	Erect Scaffolding for wall and ceiling finishes	2	2	29-May-23	30-May-23	-142	0%	ND/2019/02 - 6D (with PH)
2912	P10-GFFS1070	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	8	30-May-23	08-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
2913	P10-GFFS1080	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	8	8	08-Jun-23	16-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
2914	P10-GFFS1090	Floor Screeding	2	2	26-Jun-23	28-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
2915	P10-GFFS1100	Concrete Plinth Casting and finishes	8	8	16-Jun-23	26-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
2916	P10-GFFS1110	Access Panel Installation to FS control Room	4	4	28-Jun-23	03-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
2917	P10-GFFS1120	Floor epoxy Painting & door installation	6	6	03-Jul-23	10-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
2918	**BS Works**		134	134	30-May-23 A	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2919	**MVAC**		36	36	30-May-23	10-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
2920	P10-GFFS1150	Setting out for all equipment / MOS inspection	3	3	30-May-23	02-Jun-23	-142	0%	ND/2019/02 - 6D (with PH)
2921	P10-GFFS1160	Air Duct installation	18	18	19-Jun-23	10-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
2922	**EL**		49	49	30-May-23	22-Jul-23	-142	0%	ND/2019/02 - 6D (with PH)
2923	P10-GFFS1170	Setting out for all equipment / MOS inspection	10	10	30-May-23	09-Jun-23	-142	0%	ND/2019/02 - 6D (with PH)
2924	P10-GFFS1180	Installation of cable containment	5	5	09-Jun-23	15-Jun-23	-142	0%	ND/2019/02 - 6D (with PH)
2925	P10-GFFS1190	Cable wiring	10	10	15-Jun-23	27-Jun-23	-142	0%	ND/2019/02 - 6D (with PH)
2926	P10-GFFS1200	Installation of Lighting fitting and small power provision	24	24	27-Jun-23	22-Jul-23	-142	0%	ND/2019/02 - 6D (with PH)
2927	**FS**		89	85	19-Jul-23 A	24-Oct-23	-167	4.97%	ND/2019/02 - 6D (with PH)
2928	P10-GFFS1130	FS Piping, cable containment Installation	30	30	24-Jul-23	23-Aug-23	-142	0%	ND/2019/02 - 6D (with PH)
2929	P10-GFFS1140	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	11	19-Jul-23 A	24-Aug-23	-142	50%	ND/2019/02 - 6D (with PH)
2930	P10-GFFS1210	FS Control Panel / Direct Link Installation	15	15	31-Aug-23	15-Sep-23	-149	0%	ND/2019/02 - 6D (with PH)
2931	P10-GFFS1220	T&C of FS Control Euipments	15	15	07-Oct-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
2932	**Ground Floor Male / Female / U-Toilet**		79	79	15-Jul-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
2933	**ABWF**		78	78	15-Jul-23	07-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
2934	P10-GT1000	Access Date of G/F Toilet Fitting Out	0	0	15-Jul-23		-147	0%	ND/2019/02 - 6D (with PH)
2935	P10-GT1010	Site Survey and setting out	3	3	15-Jul-23	19-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
2936	P10-GT1020	Block Wall Erection	6	6	19-Jul-23	25-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
2937	P10-GT1040	Waterproofing & testing	7	7	27-Jul-23	03-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2938	P10-GT1050	Protected screed	3	3	03-Aug-23	07-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2939	P10-GT1060	Ceiling Grid Installation	5	5	07-Aug-23	12-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2940	P10-GT1070	Wall finishes and furring wall installation	9	9	12-Aug-23	22-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2941	P10-GT1080	Floor finishes with protection	10	10	14-Aug-23	23-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2942	P10-GT1085	Ceiling Board Installation	5	5	24-Aug-23	29-Aug-23	-134	0%	ND/2019/02 - 6D (with PH)
2943	P10-GT1090	Vanity Counter Installation	5	5	24-Aug-23	29-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
2944	P10-GT1100	Door installation	3	3	24-Aug-23	26-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
2945	P10-GT1110	Cubical installation	7	7	24-Aug-23	31-Aug-23	-130	0%	ND/2019/02 - 6D (with PH)
2946	P10-GT1120	Sanitary fitting installation	9	9	24-Aug-23	02-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
2947	P10-GT1130	Signage, accessories, air grille installation	5	5	31-Aug-23	05-Sep-23	-130	0%	ND/2019/02 - 6D (with PH)
2948	P10-GT1140	Inspection & cleaning	1	1	07-Oct-23	07-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
2949	**BS Works**		70	70	25-Jul-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
2950	**MVAC**		70	70	25-Jul-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
2951	P10-GT1030	Setting out for all equipment / Conduit / Switches	2	2	25-Jul-23	27-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
2952	P10-GT1150	MEP Conduit embedment	6	6	27-Jul-23	02-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
2953	P10-GT1160	Air Duct installation	18	18	12-Aug-23	31-Aug-23	-133	0%	ND/2019/02 - 6D (with PH)
2954	P10-GT1300	MVAC unit, Exhaust fans installation	18	18	24-Aug-23	13-Sep-23	-133	0%	ND/2019/02 - 6D (with PH)
2955	P10-GT1310	T&C of MVAC system	2	2	07-Oct-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
2956	**FS**		70	70	25-Jul-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
2957	P10-GT1180	FS Piping, cable containment Installation	10	10	25-Jul-23	04-Aug-23	-116	0%	ND/2019/02 - 6D (with PH)
2958	P10-GT1190	FS Sprinkler pipe overhead with ceiling installation	10	10	12-Aug-23	23-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
2959	P10-GT1195	FS Sprinkler head, Alarm smoke detector, heat detector installation	10	10	26-Aug-23	06-Sep-23	-127	0%	ND/2019/02 - 6D (with PH)
2960	P10-GT1200	T&C of FS system	2	2	07-Oct-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
2961	**PD**		70	70	25-Jul-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)



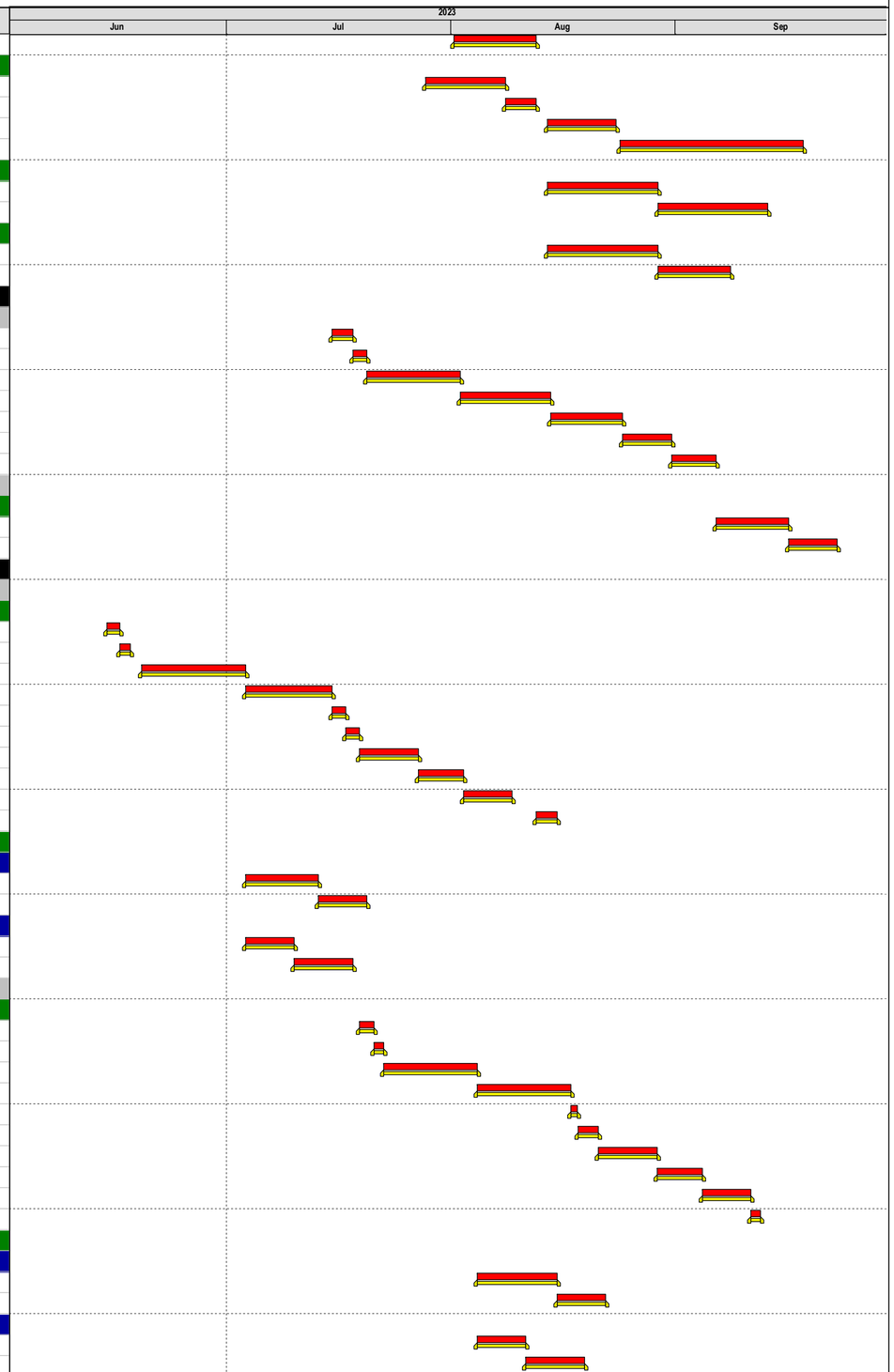
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
2962	P10-GT1210	setting out for pipeworks / San fit, & Installation of pipework at ceiling level	10	10	25-Jul-23	04-Aug-23	-75	0%	ND/2019/02 - 6D (with PH)
2963	P10-GT1220	Installation of pipework connection to underground drainage	10	10	04-Aug-23	15-Aug-23	-75	0%	ND/2019/02 - 6D (with PH)
2964	P10-GT1230	Installation of pipework connection to sanitary fitting	10	10	04-Sep-23	13-Sep-23	-93	0%	ND/2019/02 - 6D (with PH)
2965	P10-GT1240	T&C of PD system	2	2	07-Oct-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
2966	EL		68	68	27-Jul-23	09-Oct-23	-159	0%	ND/2019/02 - 6D (with PH)
2967	P10-GT1250	Setting out for all equipment / MOS inspection	2	2	27-Jul-23	29-Jul-23	-125	0%	ND/2019/02 - 6D (with PH)
2968	P10-GT1260	Installation of cable containment	8	8	12-Aug-23	21-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
2969	P10-GT1270	Cable wiring	12	12	21-Aug-23	02-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
2970	P10-GT1280	Installation of Lighting fitting and small power provision	10	10	02-Sep-23	13-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
2971	P10-GT1290	T&C of Electrical System	2	2	07-Oct-23	09-Oct-23	-159	0%	ND/2019/02 - 6D (with PH)
2972	BOH		198	171	28-Mar-23 A	04-Nov-23	-124	13.61%	ND/2019/02 - 6D (with PH)
2973	Material Recovery		128	101	28-Mar-23 A	19-Aug-23	-54	21.02%	ND/2019/02 - 6D (with PH)
2974	ABWF		66	39	28-Mar-23 A	13-Jun-23	-97	40.64%	ND/2019/02 - 6D (with PH)
2975	P10-GF-MR1000	Setting Out	2	0	28-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
2976	P10-GF-MR1010	Erect Scaffolding for wall and ceiling finishes	2	1	30-Mar-23 A	03-May-23	-104	27.78%	ND/2019/02 - 6D (with PH)
2977	P10-GF-MR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	03-May-23	16-May-23	-104	0%	ND/2019/02 - 6D (with PH)
2978	P10-GF-MR1030	Wall Finishes (Wall plastering, tiling)	12	12	16-May-23	29-May-23	-104	0%	ND/2019/02 - 6D (with PH)
2979	P10-GF-MR1040	Floor Screeding	2	2	29-May-23	31-May-23	-97	0%	ND/2019/02 - 6D (with PH)
2980	P10-GF-MR1050	Floor quarry Tiles & door installation	12	12	31-May-23	13-Jun-23	-97	0%	ND/2019/02 - 6D (with PH)
2981	BS Works		76	76	29-May-23	19-Aug-23	-54	0%	ND/2019/02 - 6D (with PH)
2982	MVAC		21	21	29-May-23	20-Jun-23	-104	0%	ND/2019/02 - 6D (with PH)
2983	P10-GF-MR1080	Setting out for all equipment / MOS inspection	3	3	29-May-23	01-Jun-23	-104	0%	ND/2019/02 - 6D (with PH)
2984	P10-GF-MR1090	Air Duct installation	18	18	01-Jun-23	20-Jun-23	-104	0%	ND/2019/02 - 6D (with PH)
2985	EL		49	49	29-May-23	21-Jul-23	-86	0%	ND/2019/02 - 6D (with PH)
2986	P10-GF-MR1100	Setting out for all equipment / MOS inspection	10	10	29-May-23	08-Jun-23	-86	0%	ND/2019/02 - 6D (with PH)
2987	P10-GF-MR1110	Installation of cable containment	5	5	08-Jun-23	14-Jun-23	-86	0%	ND/2019/02 - 6D (with PH)
2988	P10-GF-MR1120	Cable wiring	10	10	14-Jun-23	26-Jun-23	-86	0%	ND/2019/02 - 6D (with PH)
2989	P10-GF-MR1130	Installation of Lighting fitting and small power provision	24	24	26-Jun-23	21-Jul-23	-86	0%	ND/2019/02 - 6D (with PH)
2990	FS		51	51	20-Jun-23	15-Aug-23	-104	0%	ND/2019/02 - 6D (with PH)
2991	P10-GF-MR1060	FS Piping, cable containment Installation	30	30	20-Jun-23	24-Jul-23	-104	0%	ND/2019/02 - 6D (with PH)
2992	P10-GF-MR1070	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	21	24-Jul-23	15-Aug-23	-104	0%	ND/2019/02 - 6D (with PH)
2993	PD		25	25	24-Jul-23	19-Aug-23	-54	0%	ND/2019/02 - 6D (with PH)
2994	P10-GF-MR1140	Water piping works Installation	15	15	24-Jul-23	09-Aug-23	-54	0%	ND/2019/02 - 6D (with PH)
2995	P10-GF-MR1150	Surface Channel formation	10	10	09-Aug-23	19-Aug-23	-54	0%	ND/2019/02 - 6D (with PH)
2996	Security Control Room		179	152	28-Mar-23 A	13-Oct-23	-158	15.12%	ND/2019/02 - 6D (with PH)
2997	P10-GFSC1190	Access Date of G/F security control Room Fitting Out	0	0	28-Mar-23 A			100%	ND/2019/02 - 6D (with PH)
2998	ABWF		72	45	28-Mar-23 A	19-Jun-23	-115	37.27%	ND/2019/02 - 6D (with PH)
2999	P10-GFSC1030	Setting Out	2	0	28-Mar-23 A	30-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
3000	P10-GFSC1040	Erect Scaffolding for wall and ceiling finishes	2	1	30-Mar-23 A	03-May-23	-132	27.78%	ND/2019/02 - 6D (with PH)
3001	P10-GFSC1050	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	9	03-May-23	12-May-23	-132	0%	ND/2019/02 - 6D (with PH)
3002	P10-GFSC1060	Wall plastering	9	9	12-May-23	22-May-23	-132	0%	ND/2019/02 - 6D (with PH)
3003	P10-GFSC1070	Floor Screeding	2	2	29-May-23	31-May-23	-115	0%	ND/2019/02 - 6D (with PH)
3004	P10-GFSC1090	Wall Skim Coat and 1st Coat Painting	6	6	31-May-23	07-Jun-23	-115	0%	ND/2019/02 - 6D (with PH)
3005	P10-GFSC1100	Floor epoxy Painting & door installation	6	6	13-Jun-23	19-Jun-23	-115	0%	ND/2019/02 - 6D (with PH)
3006	BS Works		132	132	22-May-23	13-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
3007	MVAC		26	26	22-May-23	19-Jun-23	-115	0%	ND/2019/02 - 6D (with PH)
3008	P10-GFSC1130	Setting out for all equipment / MOS inspection	3	3	22-May-23	25-May-23	-132	0%	ND/2019/02 - 6D (with PH)
3009	P10-GFSC1140	Air Duct installation	18	18	31-May-23	19-Jun-23	-115	0%	ND/2019/02 - 6D (with PH)
3010	EL		43	43	22-May-23	10-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
3011	P10-GFSC1150	Setting out for all equipment / MOS inspection	10	10	22-May-23	02-Jun-23	-132	0%	ND/2019/02 - 6D (with PH)
3012	P10-GFSC1160	Installation of cable containment	5	5	02-Jun-23	07-Jun-23	-132	0%	ND/2019/02 - 6D (with PH)
3013	P10-GFSC1170	Cable wiring	10	10	08-Jun-23	17-Jun-23	-132	0%	ND/2019/02 - 6D (with PH)
3014	P10-GFSC1180	Installation of Lighting fitting and small power provision	18	18	19-Jun-23	10-Jul-23	-132	0%	ND/2019/02 - 6D (with PH)
3015	FS		42	42	10-Jul-23	22-Aug-23	-132	0%	ND/2019/02 - 6D (with PH)
3016	P10-GFSC1110	FS Piping, cable containment Installation	21	21	10-Jul-23	01-Aug-23	-132	0%	ND/2019/02 - 6D (with PH)
3017	P10-GFSC1120	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	21	01-Aug-23	22-Aug-23	-132	0%	ND/2019/02 - 6D (with PH)
3018	Security System		47	47	23-Aug-23	13-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
3019	P10-GFSC1210	Security System Installation	15	15	23-Aug-23	07-Sep-23	-132	0%	ND/2019/02 - 6D (with PH)
3020	P10-GFSC1220	T&C of Security System	6	6	07-Oct-23	13-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
3021	Main Distribution Frame Room		137	137	02-May-23	26-Sep-23	-144	0%	ND/2019/02 - 6D (with PH)
3022	ABWF		137	137	02-May-23	26-Sep-23	-144	0%	ND/2019/02 - 6D (with PH)
3023	P10-GF-MDF1000	Setting Out	2	2	02-May-23	03-May-23	-107	0%	ND/2019/02 - 6D (with PH)
3024	P10-GF-MDF1010	Erect Scaffolding for wall and ceiling finishes	2	2	03-May-23	05-May-23	-107	0%	ND/2019/02 - 6D (with PH)
3025	P10-GF-MDF1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	05-May-23	18-May-23	-107	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3026	P10-GF-MDF1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	18-May-23	01-Jun-23	-107	0%	ND/2019/02 - 6D (with PH)
3027	P10-GF-MDF1040	Floor Screeding	2	2	01-Jun-23	02-Jun-23	-104	0%	ND/2019/02 - 6D (with PH)
3028	P10-GF-MDF1050	Floor epoxy Painting	10	10	09-Jun-23	20-Jun-23	-104	0%	ND/2019/02 - 6D (with PH)
3029	P10-GF-MDF1150	Door installation	4	4	22-Sep-23	26-Sep-23	-144	0%	ND/2019/02 - 6D (with PH)
3030	BS Works		105	105	01-Jun-23	22-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3031	MVAC		21	21	01-Jun-23	24-Jun-23	-107	0%	ND/2019/02 - 6D (with PH)
3032	P10-GF-MDF1080	Setting out for all equipment / MOS inspection	3	3	01-Jun-23	03-Jun-23	-107	0%	ND/2019/02 - 6D (with PH)
3033	P10-GF-MDF1090	Air Duct installation	18	18	03-Jun-23	24-Jun-23	-107	0%	ND/2019/02 - 6D (with PH)
3034	EL		49	49	01-Jun-23	25-Jul-23	-89	0%	ND/2019/02 - 6D (with PH)
3035	P10-GF-MDF1100	Setting out for all equipment / MOS inspection	10	10	01-Jun-23	12-Jun-23	-89	0%	ND/2019/02 - 6D (with PH)
3036	P10-GF-MDF1110	Installation of cable containment	5	5	12-Jun-23	16-Jun-23	-89	0%	ND/2019/02 - 6D (with PH)
3037	P10-GF-MDF1120	Cable wiring	10	10	16-Jun-23	28-Jun-23	-89	0%	ND/2019/02 - 6D (with PH)
3038	P10-GF-MDF1130	Installation of Lighting fitting and small power provision	24	24	28-Jun-23	25-Jul-23	-89	0%	ND/2019/02 - 6D (with PH)
3039	FS		84	84	24-Jun-23	22-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3040	P10-GF-MDF1060	FS Piping, cable containment Installation	30	30	24-Jun-23	27-Jul-23	-107	0%	ND/2019/02 - 6D (with PH)
3041	P10-GF-MDF1070	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	21	27-Jul-23	17-Aug-23	-107	0%	ND/2019/02 - 6D (with PH)
3042	P10-GF-MDF1140	FTNS telephone line and network installation	21	21	31-Aug-23	22-Sep-23	-144	0%	ND/2019/02 - 6D (with PH)
3043	Water Meter Cabinet		65	65	02-May-23	12-Jul-23	-31	0%	ND/2019/02 - 6D (with PH)
3044	ABWF		40	40	02-May-23	13-Jun-23	-31	0%	ND/2019/02 - 6D (with PH)
3045	P10-GF-WMC1000	Setting Out	2	2	02-May-23	03-May-23	-31	0%	ND/2019/02 - 6D (with PH)
3046	P10-GF-WMC1010	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	03-May-23	16-May-23	-31	0%	ND/2019/02 - 6D (with PH)
3047	P10-GF-WMC1020	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	16-May-23	30-May-23	-31	0%	ND/2019/02 - 6D (with PH)
3048	P10-GF-WMC1030	Floor Screeding	2	2	30-May-23	01-Jun-23	-31	0%	ND/2019/02 - 6D (with PH)
3049	P10-GF-WMC1040	Double Leaf Door Installation to water meter cabinet	6	6	01-Jun-23	07-Jun-23	-31	0%	ND/2019/02 - 6D (with PH)
3050	P10-GF-WMC1050	Floor epoxy Painting & door installation	6	6	07-Jun-23	13-Jun-23	-31	0%	ND/2019/02 - 6D (with PH)
3051	BS Works		25	25	14-Jun-23	12-Jul-23	-31	0%	ND/2019/02 - 6D (with PH)
3052	PD		25	25	14-Jun-23	12-Jul-23	-31	0%	ND/2019/02 - 6D (with PH)
3053	P10-GF-WMC1060	Water piping works Installation	15	15	14-Jun-23	30-Jun-23	-31	0%	ND/2019/02 - 6D (with PH)
3054	P10-GF-WMC1070	Water Meter Installation	10	10	30-Jun-23	12-Jul-23	-31	0%	ND/2019/02 - 6D (with PH)
3055	Equipment Room		100	100	25-May-23	11-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3056	ABWF		42	42	25-May-23	12-Jul-23	-122	0%	ND/2019/02 - 6D (with PH)
3057	P10-GFER1000	Setting Out	2	2	25-May-23	29-May-23	-129	0%	ND/2019/02 - 6D (with PH)
3058	P10-GFER1010	Erect Scaffolding for wall and ceiling finishes	2	2	29-May-23	30-May-23	-129	0%	ND/2019/02 - 6D (with PH)
3059	P10-GFER1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	30-May-23	12-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
3060	P10-GFER1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	12-Jun-23	26-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
3061	P10-GFER1040	Floor Screeding	2	2	26-Jun-23	28-Jun-23	-122	0%	ND/2019/02 - 6D (with PH)
3062	P10-GFER1050	Access Panel Installation	6	6	28-Jun-23	05-Jul-23	-122	0%	ND/2019/02 - 6D (with PH)
3063	P10-GFER1060	Floor epoxy Painting & door installation	6	6	05-Jul-23	12-Jul-23	-122	0%	ND/2019/02 - 6D (with PH)
3064	BS Works		72	72	26-Jun-23	11-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3065	MVAC		21	21	26-Jun-23	19-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
3066	P10-GFER1090	Setting out for all equipment / MOS inspection	3	3	26-Jun-23	29-Jun-23	-129	0%	ND/2019/02 - 6D (with PH)
3067	P10-GFER1100	Air Duct installation	18	18	29-Jun-23	19-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
3068	EL		49	49	26-Jun-23	17-Aug-23	-111	0%	ND/2019/02 - 6D (with PH)
3069	P10-GFER1110	Setting out for all equipment / MOS inspection	10	10	26-Jun-23	07-Jul-23	-111	0%	ND/2019/02 - 6D (with PH)
3070	P10-GFER1120	Installation of cable containment	5	5	07-Jul-23	12-Jul-23	-111	0%	ND/2019/02 - 6D (with PH)
3071	P10-GFER1130	Cable wiring	10	10	13-Jul-23	22-Jul-23	-111	0%	ND/2019/02 - 6D (with PH)
3072	P10-GFER1140	Installation of Lighting fitting and small power provision	24	24	24-Jul-23	17-Aug-23	-111	0%	ND/2019/02 - 6D (with PH)
3073	FS		51	51	19-Jul-23	11-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3074	P10-GFER1070	FS Piping, cable containment Installation	30	30	19-Jul-23	19-Aug-23	-129	0%	ND/2019/02 - 6D (with PH)
3075	P10-GFER1080	FS Sprinkler head, Alarm smoke detector, heat detector installation	21	21	19-Aug-23	11-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3076	Cleaners Store		73	73	15-Jul-23	03-Oct-23	-121	0%	ND/2019/02 - 6D (with PH)
3077	ABWF		73	73	15-Jul-23	03-Oct-23	-121	0%	ND/2019/02 - 6D (with PH)
3078	P10-GFCS1000	Setting Out	2	2	15-Jul-23	18-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3079	P10-GFCS1010	Erect Scaffolding for wall and ceiling finishes	1	1	18-Jul-23	19-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3080	P10-GFCS1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	9	19-Jul-23	28-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3081	P10-GFCS1030	Floor Waterproofing, testing and Protective Screeding	12	12	28-Jul-23	10-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3082	P10-GFCS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	10	10	10-Aug-23	21-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3083	P10-GFCS1060	Ceiling Grid Installation	6	6	21-Aug-23	26-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3084	P10-GFCS1070	Floor epoxy Painting	6	6	26-Aug-23	02-Sep-23	-106	0%	ND/2019/02 - 6D (with PH)
3085	P10-GFCS1180	Ceiling Board Installation	8	8	18-Sep-23	26-Sep-23	-121	0%	ND/2019/02 - 6D (with PH)
3086	P10-GFCS1190	Door Installation	4	4	26-Sep-23	03-Oct-23	-121	0%	ND/2019/02 - 6D (with PH)
3087	BS Works		49	49	28-Jul-23	18-Sep-23	-136	0%	ND/2019/02 - 6D (with PH)
3088	MVAC		15	15	28-Jul-23	12-Aug-23	-136	0%	ND/2019/02 - 6D (with PH)
3089	P10-GFCS1100	Setting out for all equipment / MOS inspection	3	3	28-Jul-23	01-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3090	P10-GFCS1110	Air Duct installation	12	12	01-Aug-23	12-Aug-23	-136	0%	ND/2019/02 - 6D (with PH)
3091	EL		49	49	28-Jul-23	18-Sep-23	-141	0%	ND/2019/02 - 6D (with PH)
3092	P10-GFCS1120	Setting out for all equipment / MOS inspection	10	10	28-Jul-23	08-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3093	P10-GFCS1130	Installation of cable containment	5	5	08-Aug-23	12-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3094	P10-GFCS1140	Cable wiring	10	10	14-Aug-23	23-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3095	P10-GFCS1150	Installation of Lighting fitting and small power provision	24	24	24-Aug-23	18-Sep-23	-141	0%	ND/2019/02 - 6D (with PH)
3096	FS		30	30	14-Aug-23	13-Sep-23	-132	0%	ND/2019/02 - 6D (with PH)
3097	P10-GFCS1080	FS Piping, cable containment Installation	15	15	14-Aug-23	29-Aug-23	-136	0%	ND/2019/02 - 6D (with PH)
3098	P10-GFCS1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	15	29-Aug-23	13-Sep-23	-132	0%	ND/2019/02 - 6D (with PH)
3099	PD		25	25	14-Aug-23	08-Sep-23	-136	0%	ND/2019/02 - 6D (with PH)
3100	P10-GFCS1160	Water piping works Installation	15	15	14-Aug-23	29-Aug-23	-136	0%	ND/2019/02 - 6D (with PH)
3101	P10-GFCS1170	Floor Drain Installation	10	10	29-Aug-23	08-Sep-23	-136	0%	ND/2019/02 - 6D (with PH)
3102	Maintenance Corridor		66	66	15-Jul-23	23-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3103	ABWF		50	50	15-Jul-23	06-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3104	P10-GF-MC1020	Setting Out	2	2	15-Jul-23	18-Jul-23	-150	0%	ND/2019/02 - 6D (with PH)
3105	P10-GF-MC1030	Erect Scaffolding for wall and ceiling finishes	2	2	18-Jul-23	20-Jul-23	-150	0%	ND/2019/02 - 6D (with PH)
3106	P10-GF-MC1040	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	20-Jul-23	02-Aug-23	-150	0%	ND/2019/02 - 6D (with PH)
3107	P10-GF-MC1050	Floor Waterproofing, testing and Protective Screeding	12	12	02-Aug-23	14-Aug-23	-150	0%	ND/2019/02 - 6D (with PH)
3108	P10-GF-MC1060	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	10	10	14-Aug-23	24-Aug-23	-150	0%	ND/2019/02 - 6D (with PH)
3109	P10-GF-MC1070	Access Panel Installation	6	6	24-Aug-23	31-Aug-23	-150	0%	ND/2019/02 - 6D (with PH)
3110	P10-GF-MC1080	Floor epoxy Painting	6	6	31-Aug-23	06-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3111	BS Works		16	16	06-Sep-23	23-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3112	PD		16	16	06-Sep-23	23-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3113	P10-GF-MC1000	Water piping works Installation	10	10	06-Sep-23	16-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3114	P10-GF-MC1010	Floor Drain Installation	6	6	16-Sep-23	23-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3115	Staircase		131	131	14-Jun-23	04-Nov-23	-124	0%	ND/2019/02 - 6D (with PH)
3116	ST-02		57	57	14-Jun-23	15-Aug-23	-50	0%	ND/2019/02 - 6D (with PH)
3117	ABWF		57	57	14-Jun-23	15-Aug-23	-70	0%	ND/2019/02 - 6D (with PH)
3118	P10-GF-ST2-1020	Setting Out	2	2	14-Jun-23	16-Jun-23	-138	0%	ND/2019/02 - 6D (with PH)
3119	P10-GF-ST2-1030	Erect Scaffolding for wall and ceiling finishes	2	2	16-Jun-23	17-Jun-23	-138	0%	ND/2019/02 - 6D (with PH)
3120	P10-GF-ST2-1040	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	19-Jun-23	03-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3121	P10-GF-ST2-1050	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	03-Jul-23	15-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3122	P10-GF-ST2-1055	Dismantle Scaffolding	1	1	15-Jul-23	17-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3123	P10-GF-ST2-1060	Staircase Screeding	2	2	17-Jul-23	19-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3124	P10-GF-ST2-1070	Staircase Tiling / Tactile Installation	8	8	19-Jul-23	27-Jul-23	-71	0%	ND/2019/02 - 6D (with PH)
3125	P10-GF-ST2-1080	Staircase Handrail installation	6	6	27-Jul-23	02-Aug-23	-71	0%	ND/2019/02 - 6D (with PH)
3126	P10-GF-ST2-1090	Staircase Wall Painting	6	6	02-Aug-23	09-Aug-23	-71	0%	ND/2019/02 - 6D (with PH)
3127	P10-GF-ST2-1240	Staircase Door Installation	2	2	12-Aug-23	15-Aug-23	-70	0%	ND/2019/02 - 6D (with PH)
3128	BS Works		16	16	03-Jul-23	20-Jul-23	-25	0%	ND/2019/02 - 6D (with PH)
3129	PD		16	16	03-Jul-23	20-Jul-23	-25	0%	ND/2019/02 - 6D (with PH)
3130	P10-GF-ST2-1000	Water piping works Installation	10	10	03-Jul-23	13-Jul-23	-77	0%	ND/2019/02 - 6D (with PH)
3131	P10-GF-ST2-1010	Floor Drain Installation	6	6	13-Jul-23	20-Jul-23	-25	0%	ND/2019/02 - 6D (with PH)
3132	FS		14	14	03-Jul-23	18-Jul-23	-77	0%	ND/2019/02 - 6D (with PH)
3133	P10-GF-ST2-1100	FS Piping, cable containment Installation	6	6	03-Jul-23	10-Jul-23	-77	0%	ND/2019/02 - 6D (with PH)
3134	P10-GF-ST2-1110	FS Sprinkler head, Alarm smoke detector, heat detector installation	8	8	10-Jul-23	18-Jul-23	-77	0%	ND/2019/02 - 6D (with PH)
3135	ST-03		53	53	19-Jul-23	12-Sep-23	-77	0%	ND/2019/02 - 6D (with PH)
3136	ABWF		53	53	19-Jul-23	12-Sep-23	-95	0%	ND/2019/02 - 6D (with PH)
3137	P10-GF-ST3-1000	Setting Out	2	2	19-Jul-23	21-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3138	P10-GF-ST3-1010	Erect Scaffolding for wall and ceiling finishes	2	2	21-Jul-23	22-Jul-23	-138	0%	ND/2019/02 - 6D (with PH)
3139	P10-GF-ST3-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	22-Jul-23	04-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3140	P10-GF-ST3-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	04-Aug-23	17-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3141	P10-GF-ST3-1035	Dismantle Scaffolding	1	1	17-Aug-23	18-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3142	P10-GF-ST3-1040	Staircase Screeding	2	2	18-Aug-23	21-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3143	P10-GF-ST3-1050	Staircase Tiling / Tactile Installation	8	8	21-Aug-23	29-Aug-23	-102	0%	ND/2019/02 - 6D (with PH)
3144	P10-GF-ST3-1060	Staircase Handrail installation	6	6	29-Aug-23	04-Sep-23	-102	0%	ND/2019/02 - 6D (with PH)
3145	P10-GF-ST3-1070	Staircase Wall Painting	6	6	04-Sep-23	11-Sep-23	-102	0%	ND/2019/02 - 6D (with PH)
3146	P10-GF-ST3-1075	Staircase Door Installation	2	2	11-Sep-23	12-Sep-23	-95	0%	ND/2019/02 - 6D (with PH)
3147	BS Works		16	16	04-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3148	PD		16	16	04-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3149	P10-GF-ST3-1100	Water piping works Installation	10	10	04-Aug-23	15-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3150	P10-GF-ST3-1110	Floor Drain Installation	6	6	15-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3151	FS		14	14	04-Aug-23	19-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3152	P10-GF-ST3-1080	FS Piping, cable containment Installation	6	6	04-Aug-23	11-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3153	P10-GF-ST3-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	8	8	11-Aug-23	19-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
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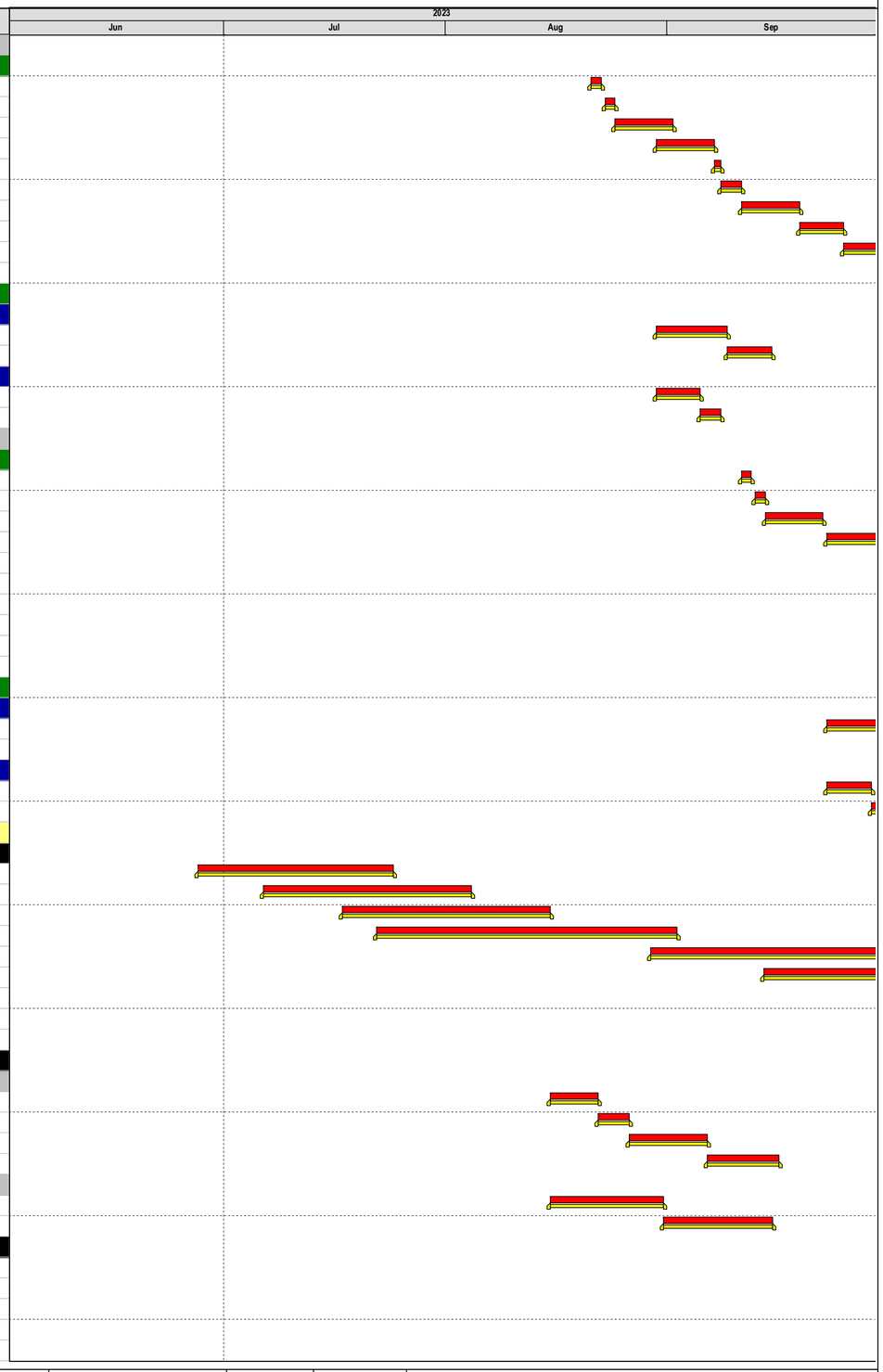
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3154		ST-04	42	42	21-Aug-23	05-Oct-23	-97	0%	ND/2019/02 - 6D (with PH)
3155		ABWF	42	42	21-Aug-23	05-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
3156	P10-GF-ST4-1000	Setting Out	2	2	21-Aug-23	22-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3157	P10-GF-ST4-1010	Erect Scaffolding for wall and ceiling finishes	2	2	23-Aug-23	24-Aug-23	-138	0%	ND/2019/02 - 6D (with PH)
3158	P10-GF-ST4-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	8	24-Aug-23	01-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3159	P10-GF-ST4-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	8	8	30-Aug-23	07-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3160	P10-GF-ST4-1035	Dismantle Scaffolding	1	1	07-Sep-23	08-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3161	P10-GF-ST4-1040	Staircase Screeding	2	2	08-Sep-23	11-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3162	P10-GF-ST4-1050	Staircase Tiling / Tactile Installation	8	8	11-Sep-23	19-Sep-23	-122	0%	ND/2019/02 - 6D (with PH)
3163	P10-GF-ST4-1060	Staircase Handrail installation	6	6	19-Sep-23	25-Sep-23	-122	0%	ND/2019/02 - 6D (with PH)
3164	P10-GF-ST4-1070	Staircase Wall Painting	6	6	25-Sep-23	04-Oct-23	-122	0%	ND/2019/02 - 6D (with PH)
3165	P10-GF-ST4-1075	Staircase Door Installation	2	2	04-Oct-23	05-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
3166		BS Works	16	16	30-Aug-23	15-Sep-23	-80	0%	ND/2019/02 - 6D (with PH)
3167		PD	16	16	30-Aug-23	15-Sep-23	-80	0%	ND/2019/02 - 6D (with PH)
3168	P10-GF-ST4-1100	Water piping works Installation	10	10	30-Aug-23	09-Sep-23	-127	0%	ND/2019/02 - 6D (with PH)
3169	P10-GF-ST4-1110	Floor Drain Installation	6	6	09-Sep-23	15-Sep-23	-80	0%	ND/2019/02 - 6D (with PH)
3170		FS	9	9	30-Aug-23	08-Sep-23	-127	0%	ND/2019/02 - 6D (with PH)
3171	P10-GF-ST4-1080	FS Piping, cable containment Installation	6	6	30-Aug-23	05-Sep-23	-127	0%	ND/2019/02 - 6D (with PH)
3172	P10-GF-ST4-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	3	05-Sep-23	08-Sep-23	-127	0%	ND/2019/02 - 6D (with PH)
3173		ST-05	49	49	11-Sep-23	04-Nov-23	-124	0%	ND/2019/02 - 6D (with PH)
3174		ABWF	49	49	11-Sep-23	04-Nov-23	-138	0%	ND/2019/02 - 6D (with PH)
3175	P10-GF-ST5-1000	Setting Out	2	2	11-Sep-23	12-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3176	P10-GF-ST5-1010	Erect Scaffolding for wall and ceiling finishes	2	2	13-Sep-23	14-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3177	P10-GF-ST5-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	8	8	14-Sep-23	22-Sep-23	-138	0%	ND/2019/02 - 6D (with PH)
3178	P10-GF-ST5-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	23-Sep-23	07-Oct-23	-138	0%	ND/2019/02 - 6D (with PH)
3179	P10-GF-ST5-1035	Dismantle Scaffolding	1	1	07-Oct-23	09-Oct-23	-138	0%	ND/2019/02 - 6D (with PH)
3180	P10-GF-ST5-1040	Staircase Screeding	2	2	09-Oct-23	11-Oct-23	-138	0%	ND/2019/02 - 6D (with PH)
3181	P10-GF-ST5-1050	Staircase Tiling / Tactile Installation	8	8	11-Oct-23	19-Oct-23	-138	0%	ND/2019/02 - 6D (with PH)
3182	P10-GF-ST5-1060	Staircase Handrail installation	6	6	19-Oct-23	27-Oct-23	-138	0%	ND/2019/02 - 6D (with PH)
3183	P10-GF-ST5-1070	Staircase Wall Painting	6	6	27-Oct-23	02-Nov-23	-138	0%	ND/2019/02 - 6D (with PH)
3184	P10-GF-ST5-1075	Staircase Door Installation	2	2	02-Nov-23	04-Nov-23	-138	0%	ND/2019/02 - 6D (with PH)
3185		BS Works	16	16	23-Sep-23	12-Oct-23	-103	0%	ND/2019/02 - 6D (with PH)
3186		PD	16	16	23-Sep-23	12-Oct-23	-103	0%	ND/2019/02 - 6D (with PH)
3187	P10-GF-ST5-1100	Water piping works Installation	10	10	23-Sep-23	05-Oct-23	-123	0%	ND/2019/02 - 6D (with PH)
3188	P10-GF-ST5-1110	Floor Drain Installation	6	6	06-Oct-23	12-Oct-23	-103	0%	ND/2019/02 - 6D (with PH)
3189		FS	9	9	23-Sep-23	05-Oct-23	-123	0%	ND/2019/02 - 6D (with PH)
3190	P10-GF-ST5-1080	FS Piping, cable containment Installation	6	6	23-Sep-23	29-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3191	P10-GF-ST5-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	3	29-Sep-23	05-Oct-23	-123	0%	ND/2019/02 - 6D (with PH)
3192		External wall and External Area	229	229	27-Jun-23	05-Mar-24	-157	0%	ND/2019/02 - 6D (with PH)
3193		ABWF	133	133	27-Jun-23	18-Nov-23	-147	0%	ND/2019/02 - 6D (with PH)
3194	P10-GF-EXT1000	Erection of external scaffolding	25	25	27-Jun-23	24-Jul-23	-140	0%	ND/2019/02 - 6D (with PH)
3195	P10-GF-EXT1010	Waterproofing & Window / Louvre Glazing Works	28	28	06-Jul-23	04-Aug-23	-140	0%	ND/2019/02 - 6D (with PH)
3196	P10-GF-EXT1020	Aluminium Baffle Ceiling Grid Installation	28	28	17-Jul-23	15-Aug-23	-140	0%	ND/2019/02 - 6D (with PH)
3197	P10-GF-EXT1030	Wooden Fence Installation	40	40	22-Jul-23	02-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3198	P10-GF-EXT1040	External wall Painting and Metal Grilles Installation	35	35	29-Aug-23	07-Oct-23	-148	0%	ND/2019/02 - 6D (with PH)
3199	P10-GF-EXT1050	Aluminium Baffle Ceiling Board Installation	35	35	14-Sep-23	24-Oct-23	-148	0%	ND/2019/02 - 6D (with PH)
3200	P10-GF-EXT1060	Removal of external wall scaffolding	4	4	24-Oct-23	28-Oct-23	-148	0%	ND/2019/02 - 6D (with PH)
3201	P10-GF-EXT1070	Eco Pavers Laying / Stainless Steel Tactile	20	20	28-Oct-23	18-Nov-23	-147	0%	ND/2019/02 - 6D (with PH)
3202	P10-GF-EXT1080	Staircase Finishes and door installation	10	10	03-Nov-23	13-Nov-23	-147	0%	ND/2019/02 - 6D (with PH)
3203		BS Works	31	31	15-Aug-23	16-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3204		EL	31	31	15-Aug-23	16-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3205	P10-GF-EXT1130	Setting out for all equipment / MOS inspection	6	6	15-Aug-23	22-Aug-23	-140	0%	ND/2019/02 - 6D (with PH)
3206	P10-GF-EXT1140	Installation of cable containment	5	5	22-Aug-23	26-Aug-23	-140	0%	ND/2019/02 - 6D (with PH)
3207	P10-GF-EXT1150	Cable wiring	10	10	26-Aug-23	06-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3208	P10-GF-EXT1160	Installation of Lighting fitting and small power provision	10	10	06-Sep-23	16-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3209		FS	30	30	15-Aug-23	15-Sep-23	-134	0%	ND/2019/02 - 6D (with PH)
3210	P10-GF-EXT1090	FS Piping, cable containment Installation	15	15	15-Aug-23	31-Aug-23	-134	0%	ND/2019/02 - 6D (with PH)
3211	P10-GF-EXT1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	15	31-Aug-23	15-Sep-23	-134	0%	ND/2019/02 - 6D (with PH)
3212		Landscape Works	137	137	05-Oct-23	05-Mar-24	-157	0%	ND/2019/02 - 6D (with PH)
3213	P10-GF-EXT1490	Planters Structural works	20	20	05-Oct-23	27-Oct-23	-152	0%	ND/2019/02 - 6D (with PH)
3214	P10-GF-EXT1495	Planters RC defect retification	6	6	27-Oct-23	02-Nov-23	-152	0%	ND/2019/02 - 6D (with PH)
3215	P10-GF-EXT1500	Planters Waterproofing	18	18	02-Nov-23	21-Nov-23	-152	0%	ND/2019/02 - 6D (with PH)
3216	P10-GF-EXT1510	Irrigation Pipes, Sub-soil Drainage installation	11	11	07-Nov-23	18-Nov-23	-152	0%	ND/2019/02 - 6D (with PH)
3217	P10-GF-EXT1520	Placing Planting Soil	9	9	09-Nov-23	18-Nov-23	-152	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
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Project End: 05-Jan-27
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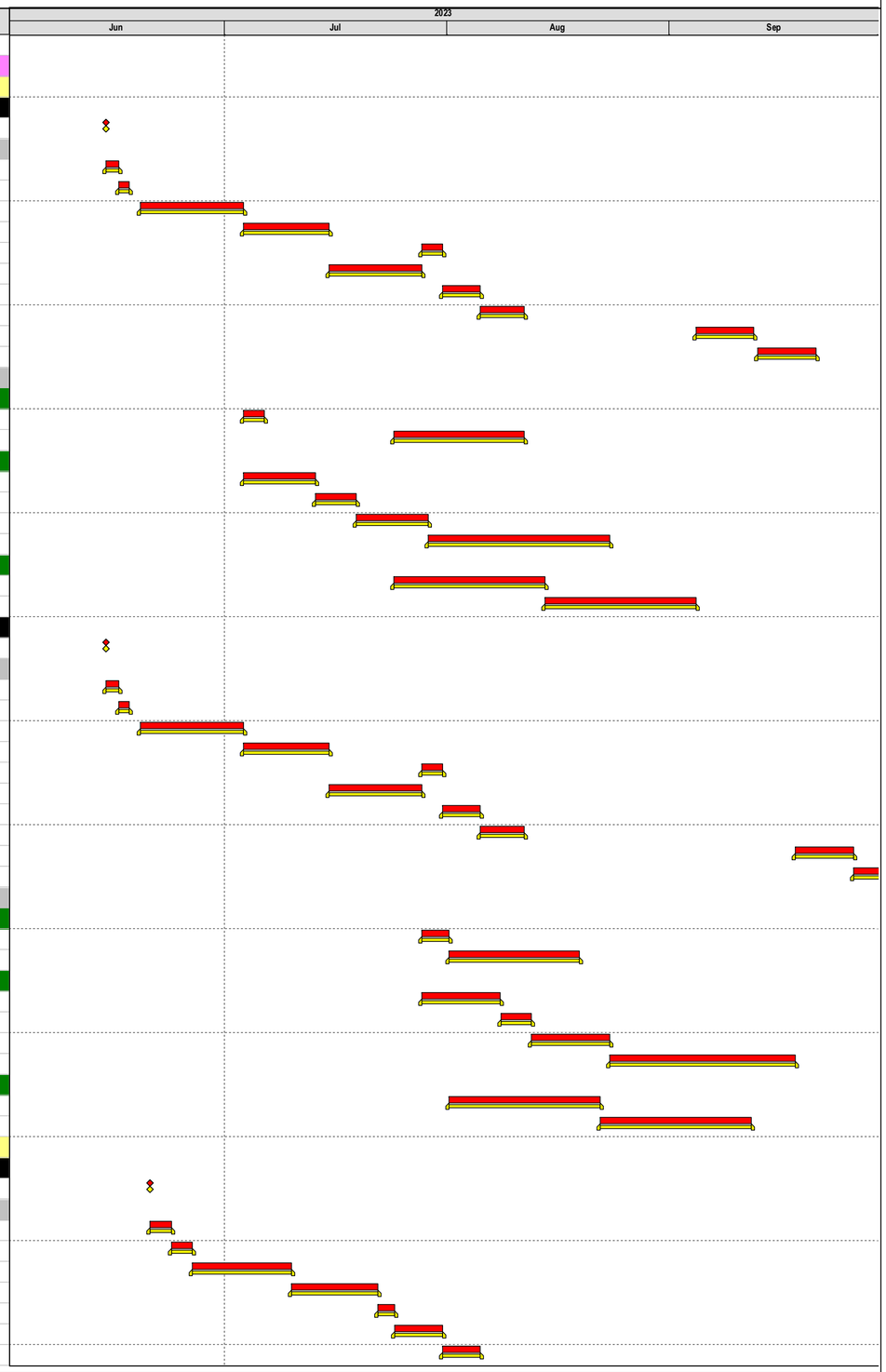
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3218	P10-GF-EXT1530	Shurbs Planting works (1,804 nos)	25	25	05-Feb-24	05-Mar-24	-157	0%	ND/2019/02 - 6D (with PH)
3219	**1st Floor**		256	256	14-Jun-23	21-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3220	**Zone 1**		105	105	14-Jun-23	06-Oct-23	-125	0%	ND/2019/02 - 6D (with PH)
3221	**Multi Purpose Room 1 & 2**		92	92	14-Jun-23	21-Sep-23	-112	0%	ND/2019/02 - 6D (with PH)
3222	P10-1FMP-1000	Access Date of 1/FMulti Purpose Room (1&2) Fitting Out	0	0	14-Jun-23		-123	0%	ND/2019/02 - 6D (with PH)
3223	**ABWF**		92	92	14-Jun-23	21-Sep-23	-112	0%	ND/2019/02 - 6D (with PH)
3224	P10-1F-MP1010	Setting Out	2	2	14-Jun-23	16-Jun-23	-123	0%	ND/2019/02 - 6D (with PH)
3225	P10-1F-MP1020	Erect Scaffolding for wall and ceiling finishes	2	2	16-Jun-23	17-Jun-23	-123	0%	ND/2019/02 - 6D (with PH)
3226	P10-1F-MP1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	19-Jun-23	03-Jul-23	-123	0%	ND/2019/02 - 6D (with PH)
3227	P10-1F-MP1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	03-Jul-23	15-Jul-23	-123	0%	ND/2019/02 - 6D (with PH)
3228	P10-1F-MP1050	Floor Screeding	2	2	28-Jul-23	31-Jul-23	-123	0%	ND/2019/02 - 6D (with PH)
3229	P10-1F-MP1060	Timber Flooring	12	12	15-Jul-23	28-Jul-23	-123	0%	ND/2019/02 - 6D (with PH)
3230	P10-1F-MP1070	Ceiling Grid Installation	6	6	31-Jul-23	05-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3231	P10-1F-MP1080	Plastic Laminate / Glass Partition Wall Installation	6	6	05-Aug-23	11-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3232	P10-1F-MP1170	Ceiling Board Installation	8	8	04-Sep-23	12-Sep-23	-112	0%	ND/2019/02 - 6D (with PH)
3233	P10-1F-MP1180	Movable Partition / Glass Door Installation	8	8	13-Sep-23	21-Sep-23	-112	0%	ND/2019/02 - 6D (with PH)
3234	**BS Works**		60	60	03-Jul-23	04-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3235	**MVAC**		38	38	03-Jul-23	11-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3236	P10-1F-MP1110	Setting out for all equipment / MOS inspection	3	3	03-Jul-23	06-Jul-23	-117	0%	ND/2019/02 - 6D (with PH)
3237	P10-1F-MP1120	Air Duct installation	18	18	24-Jul-23	11-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3238	**EL**		49	49	03-Jul-23	23-Aug-23	-117	0%	ND/2019/02 - 6D (with PH)
3239	P10-1F-MP1130	Setting out for all equipment / MOS inspection	10	10	03-Jul-23	13-Jul-23	-117	0%	ND/2019/02 - 6D (with PH)
3240	P10-1F-MP1140	Installation of cable containment	5	5	13-Jul-23	19-Jul-23	-117	0%	ND/2019/02 - 6D (with PH)
3241	P10-1F-MP1150	Cable wiring	10	10	19-Jul-23	29-Jul-23	-117	0%	ND/2019/02 - 6D (with PH)
3242	P10-1F-MP1160	Installation of Lighting fitting and small power provision	24	24	29-Jul-23	23-Aug-23	-117	0%	ND/2019/02 - 6D (with PH)
3243	**FS**		40	40	24-Jul-23	04-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3244	P10-1F-MP1090	FS Piping, cable containment Installation	20	20	24-Jul-23	14-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3245	P10-1F-MP1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	20	14-Aug-23	04-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3246	**Storage Room**		105	105	14-Jun-23	06-Oct-23	-125	0%	ND/2019/02 - 6D (with PH)
3247	P10-1F-SR0900	Access Date of 1/FStorage Room Fitting Out	0	0	14-Jun-23		-141	0%	ND/2019/02 - 6D (with PH)
3248	**ABWF**		105	105	14-Jun-23	06-Oct-23	-125	0%	ND/2019/02 - 6D (with PH)
3249	P10-1F-SR1000	Setting Out	2	2	14-Jun-23	16-Jun-23	-141	0%	ND/2019/02 - 6D (with PH)
3250	P10-1F-SR1010	Erect Scaffolding for wall and ceiling finishes	2	2	16-Jun-23	17-Jun-23	-141	0%	ND/2019/02 - 6D (with PH)
3251	P10-1F-SR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	19-Jun-23	03-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3252	P10-1F-SR1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	03-Jul-23	15-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3253	P10-1F-SR1040	Floor Screeding	2	2	28-Jul-23	31-Jul-23	-123	0%	ND/2019/02 - 6D (with PH)
3254	P10-1F-SR1050	Timber Flooring	12	12	15-Jul-23	28-Jul-23	-141	0%	ND/2019/02 - 6D (with PH)
3255	P10-1F-SR1060	Ceiling Grid Installation	6	6	31-Jul-23	05-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3256	P10-1F-SR1070	Plastic Laminate Installation	6	6	05-Aug-23	11-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3257	P10-1F-SR1160	Ceiling Board Installation	8	8	18-Sep-23	26-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3258	P10-1F-SR1170	Movable Partition / Glass Door Installation	8	8	26-Sep-23	06-Oct-23	-125	0%	ND/2019/02 - 6D (with PH)
3259	**BS Works**		49	49	28-Jul-23	18-Sep-23	-136	0%	ND/2019/02 - 6D (with PH)
3260	**MVAC**		21	21	28-Jul-23	19-Aug-23	-130	0%	ND/2019/02 - 6D (with PH)
3261	P10-1F-SR1100	Setting out for all equipment / MOS inspection	3	3	28-Jul-23	01-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3262	P10-1F-SR1110	Air Duct installation	18	18	01-Aug-23	19-Aug-23	-130	0%	ND/2019/02 - 6D (with PH)
3263	**EL**		49	49	28-Jul-23	18-Sep-23	-141	0%	ND/2019/02 - 6D (with PH)
3264	P10-1F-SR1120	Setting out for all equipment / MOS inspection	10	10	28-Jul-23	08-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3265	P10-1F-SR1130	Installation of cable containment	5	5	08-Aug-23	12-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3266	P10-1F-SR1140	Cable wiring	10	10	12-Aug-23	23-Aug-23	-141	0%	ND/2019/02 - 6D (with PH)
3267	P10-1F-SR1150	Installation of Lighting fitting and small power provision	24	24	23-Aug-23	18-Sep-23	-141	0%	ND/2019/02 - 6D (with PH)
3268	**FS**		40	40	01-Aug-23	12-Sep-23	-130	0%	ND/2019/02 - 6D (with PH)
3269	P10-1F-SR1080	FS Piping, cable containment Installation	20	20	01-Aug-23	22-Aug-23	-130	0%	ND/2019/02 - 6D (with PH)
3270	P10-1F-SR1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	20	22-Aug-23	12-Sep-23	-130	0%	ND/2019/02 - 6D (with PH)
3271	**Zone 2**		105	105	20-Jun-23	13-Oct-23	-104	0%	ND/2019/02 - 6D (with PH)
3272	**Workshop**		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3273	P10-1F-WS1000	Access Date of 1/F Workshop & Printer Room Fitting Out	0	0	20-Jun-23		-135	0%	ND/2019/02 - 6D (with PH)
3274	**ABWF**		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3275	P10-1F-WS1010	Setting Out	2	2	20-Jun-23	23-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3276	P10-1F-WS1020	Erect Scaffolding for wall and ceiling finishes	2	2	23-Jun-23	26-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3277	P10-1F-WS1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	26-Jun-23	10-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3278	P10-1F-WS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	10-Jul-23	22-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3279	P10-1F-WS1050	Floor Screeding	2	2	22-Jul-23	24-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3280	P10-1F-WS1070	Ceiling Grid Installation	6	6	24-Jul-23	31-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3281	P10-1F-WS1080	Plastic Laminate Installation	6	6	31-Jul-23	05-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)



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Data Date: 30-Apr-23
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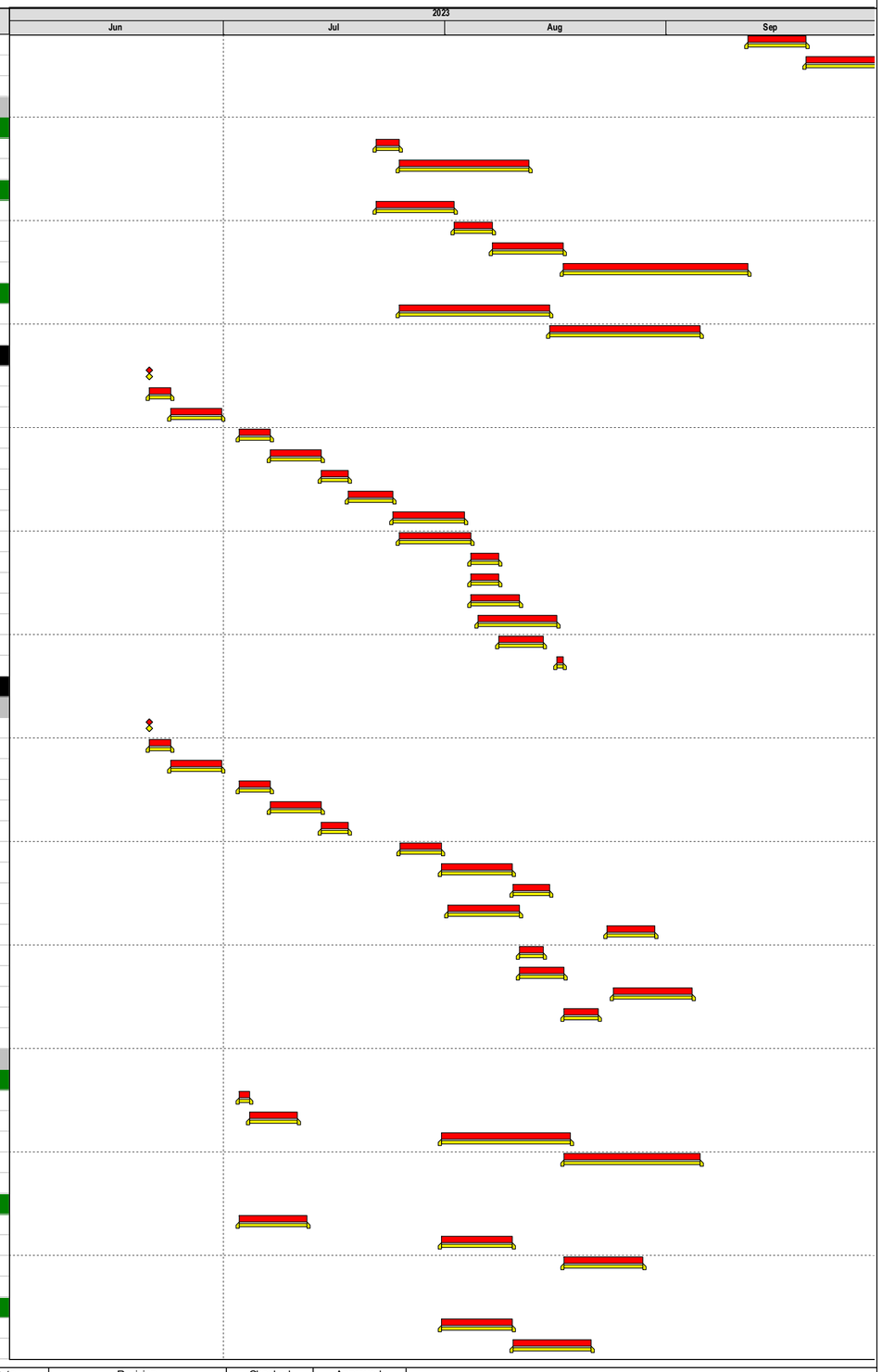
Programme Forecast (Jun-Jul-Aug-Sep 2023)

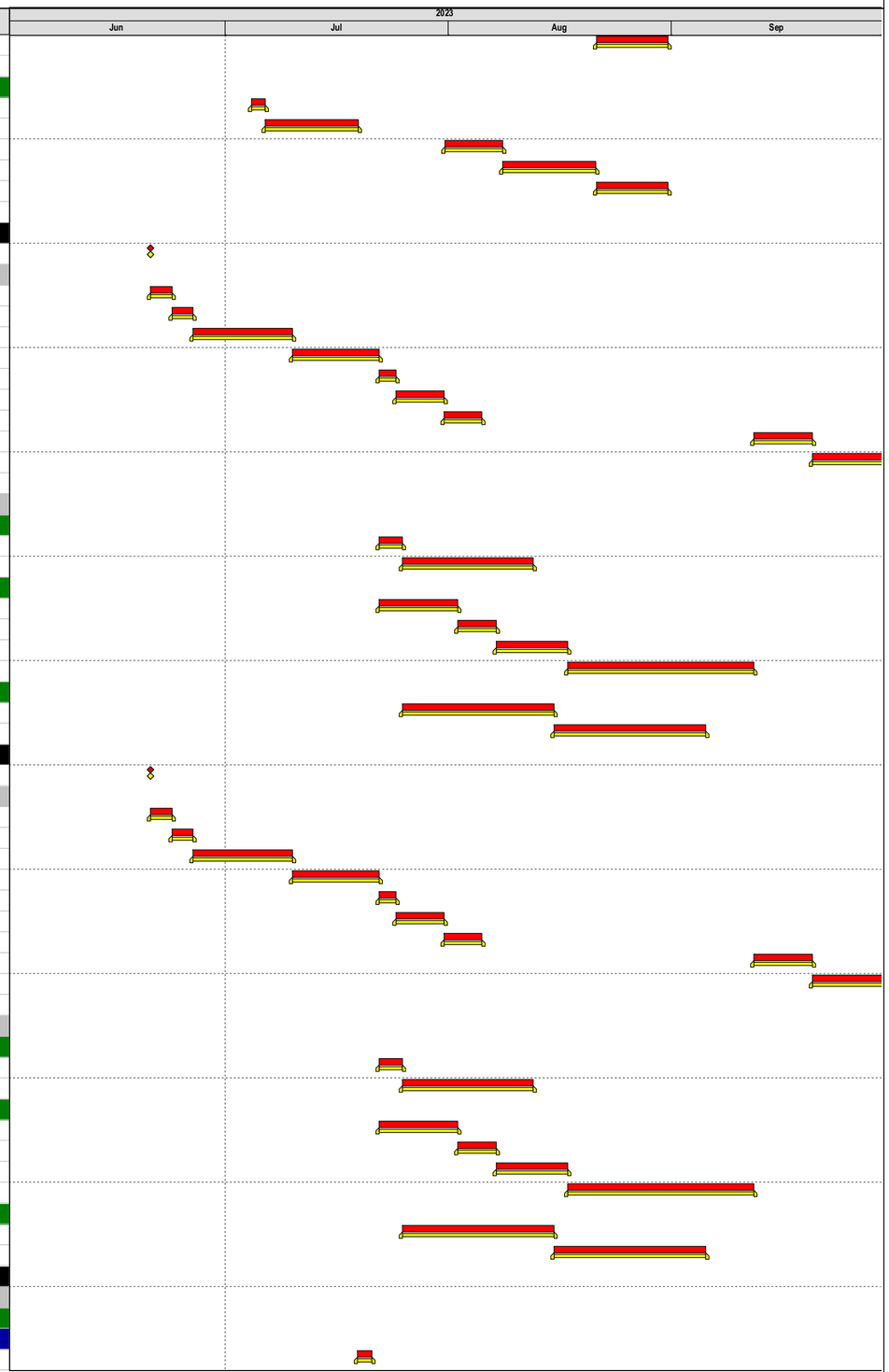
Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

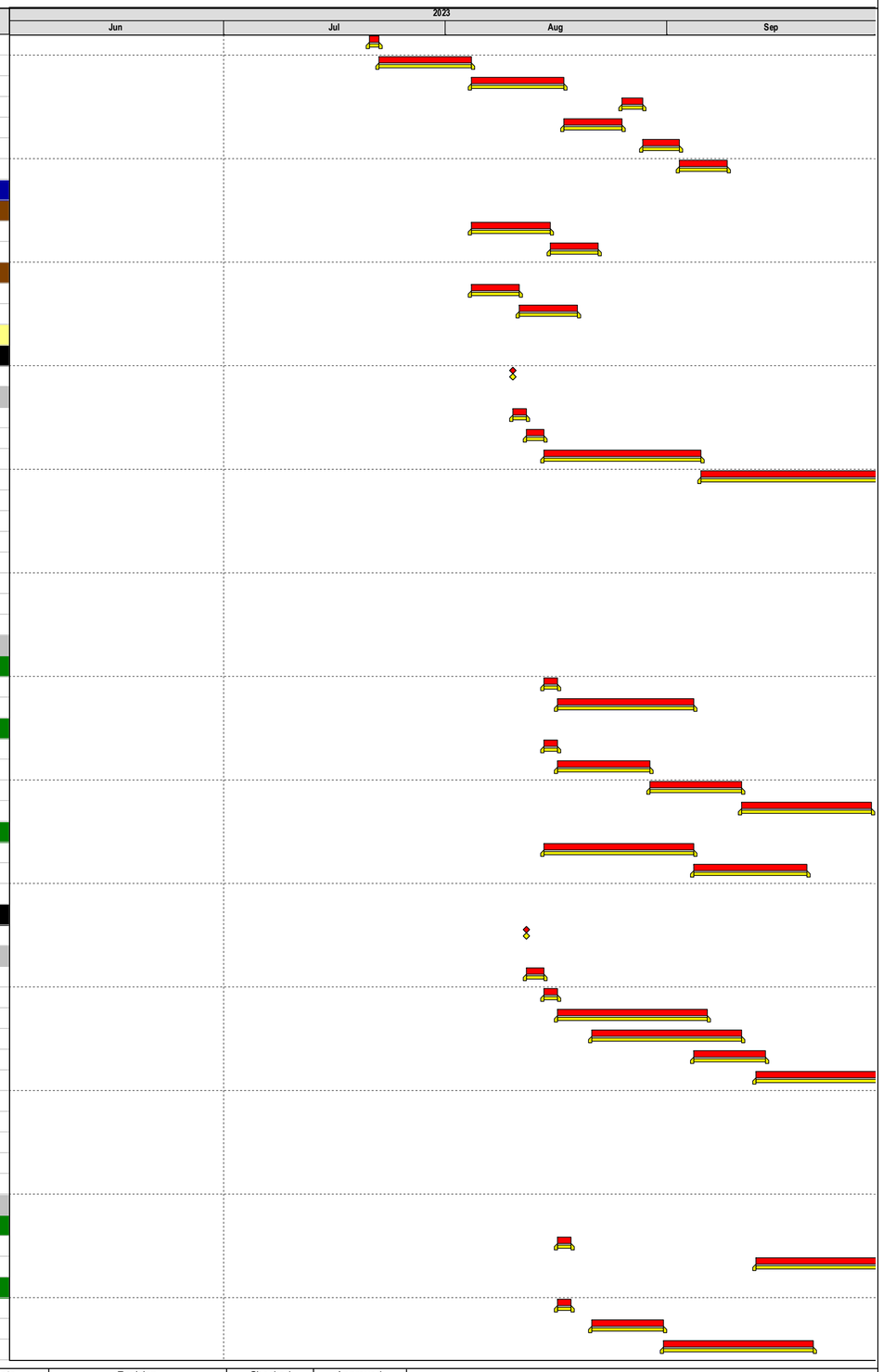
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3282	P10-1F-WS1170	Ceiling Board Installation	8	8	12-Sep-23	20-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3283	P10-1F-WS1175	Raised Floor Installation	12	12	20-Sep-23	05-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3284	P10-1F-WS1180	Cabinet Installation	8	8	05-Oct-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3285	BS Works		49	49	22-Jul-23	12-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3286	MVAC		21	21	22-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3287	P10-1F-WS1110	Setting out for all equipment / MOS inspection	3	3	22-Jul-23	25-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3288	P10-1F-WS1120	Air Duct installation	18	18	25-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3289	EL		49	49	22-Jul-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3290	P10-1F-WS1130	Setting out for all equipment / MOS inspection	10	10	22-Jul-23	02-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3291	P10-1F-WS1140	Installation of cable containment	5	5	02-Aug-23	07-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3292	P10-1F-WS1150	Cable wiring	10	10	07-Aug-23	17-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3293	P10-1F-WS1160	Installation of Lighting fitting and small power provision	24	24	17-Aug-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3294	FS		40	40	25-Jul-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3295	P10-1F-WS1090	FS Piping, cable containment Installation	20	20	25-Jul-23	15-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3296	P10-1F-WS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	20	15-Aug-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3297	Pantry		53	53	20-Jun-23	17-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3298	P10-PTRY-1000	Access Date of Pantry Fitting Out	0	0	20-Jun-23		-106	0%	ND/2019/02 - 6D (with PH)
3299	P10-PTRY-1010	Site Survey and setting out	2	2	20-Jun-23	23-Jun-23	-106	0%	ND/2019/02 - 6D (with PH)
3300	P10-PTRY-1020	Block Wall Erection	7	7	23-Jun-23	30-Jun-23	-106	0%	ND/2019/02 - 6D (with PH)
3301	P10-PTRY-1030	MEP Conduit embedment	5	5	03-Jul-23	07-Jul-23	-106	0%	ND/2019/02 - 6D (with PH)
3302	P10-PTRY-1040	Waterproofing & testing	7	7	07-Jul-23	14-Jul-23	-106	0%	ND/2019/02 - 6D (with PH)
3303	P10-PTRY-1050	Protected screed	3	3	14-Jul-23	18-Jul-23	-106	0%	ND/2019/02 - 6D (with PH)
3304	P10-PTRY-1060	Ceiling finishes	6	6	18-Jul-23	24-Jul-23	-106	0%	ND/2019/02 - 6D (with PH)
3305	P10-PTRY-1070	Floor finishes	10	10	24-Jul-23	03-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3306	P10-PTRY-1080	Wall finishes	10	10	25-Jul-23	04-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3307	P10-PTRY-1090	Cabinet installation	3	3	04-Aug-23	08-Aug-23	-104	0%	ND/2019/02 - 6D (with PH)
3308	P10-PTRY-1100	Door installation	3	3	04-Aug-23	08-Aug-23	-104	0%	ND/2019/02 - 6D (with PH)
3309	P10-PTRY-1110	Vanity Counter Installation	6	6	04-Aug-23	11-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3310	P10-PTRY-1120	Sanitary fitting installation	10	10	05-Aug-23	16-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3311	P10-PTRY-1130	Signage, false ceiling panels, Lighting and air grille installation	6	6	08-Aug-23	14-Aug-23	-104	0%	ND/2019/02 - 6D (with PH)
3312	P10-PTRY-1140	Inspection, T&C, cleaning	1	1	16-Aug-23	17-Aug-23	-106	0%	ND/2019/02 - 6D (with PH)
3313	Female Toilets / Disabled Toilet / Male Toilet / Baby Care Room		103	103	20-Jun-23	11-Oct-23	-115	0%	ND/2019/02 - 6D (with PH)
3314	ABWF		100	100	20-Jun-23	07-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
3315	P10-1T1000	Access Date of Toilet Fitting Out	0	0	20-Jun-23		-119	0%	ND/2019/02 - 6D (with PH)
3316	P10-1T1010	Site Survey and setting out	2	2	20-Jun-23	23-Jun-23	-119	0%	ND/2019/02 - 6D (with PH)
3317	P10-1T1020	Block Wall Erection	7	7	23-Jun-23	30-Jun-23	-119	0%	ND/2019/02 - 6D (with PH)
3318	P10-1T1030	MEP Conduit embedment	5	5	03-Jul-23	07-Jul-23	-119	0%	ND/2019/02 - 6D (with PH)
3319	P10-1T1040	Waterproofing & testing	7	7	07-Jul-23	14-Jul-23	-119	0%	ND/2019/02 - 6D (with PH)
3320	P10-1T1050	Protected screed	3	3	14-Jul-23	18-Jul-23	-119	0%	ND/2019/02 - 6D (with PH)
3321	P10-1T1060	Ceiling Grid Installation	5	5	25-Jul-23	31-Jul-23	-126	0%	ND/2019/02 - 6D (with PH)
3322	P10-1T1070	Floor finishes	10	10	31-Jul-23	10-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3323	P10-1T1075	Ceiling Grid Installation	5	5	10-Aug-23	15-Aug-23	-115	0%	ND/2019/02 - 6D (with PH)
3324	P10-1T1080	Wall finishes	10	10	01-Aug-23	11-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3325	P10-1T1090	Vanity Counter Installation	6	6	23-Aug-23	30-Aug-23	-129	0%	ND/2019/02 - 6D (with PH)
3326	P10-1T1100	Door installation	3	3	11-Aug-23	14-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3327	P10-1T1110	Cubical installation	6	6	11-Aug-23	17-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3328	P10-1T1120	Sanitaryfitting installation	10	10	24-Aug-23	04-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3329	P10-1T1130	Signage, false ceiling panels, Lighting and air grille installation	4	4	17-Aug-23	22-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3330	P10-1T1140	Inspection & cleaning	1	1	07-Oct-23	07-Oct-23	-158	0%	ND/2019/02 - 6D (with PH)
3331	BS Works		94	94	03-Jul-23	11-Oct-23	-115	0%	ND/2019/02 - 6D (with PH)
3332	MVAC		92	92	03-Jul-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
3333	P10-1T1150	Setting out for all equipment / Conduit / Switches	2	2	03-Jul-23	04-Jul-23	-107	0%	ND/2019/02 - 6D (with PH)
3334	P10-1T1180	MEP Conduit embedment	6	6	04-Jul-23	11-Jul-23	-107	0%	ND/2019/02 - 6D (with PH)
3335	P10-1T1190	Air Duct installation	18	18	31-Jul-23	18-Aug-23	-121	0%	ND/2019/02 - 6D (with PH)
3336	P10-1T1310	MVAC unit, Exhaust fans installation	18	18	17-Aug-23	05-Sep-23	-126	0%	ND/2019/02 - 6D (with PH)
3337	P10-1T1320	T&C of MVAC system	2	2	07-Oct-23	09-Oct-23	-154	0%	ND/2019/02 - 6D (with PH)
3338	FS		94	94	03-Jul-23	11-Oct-23	-156	0%	ND/2019/02 - 6D (with PH)
3339	P10-1T1160	FS Piping, cable containment Installation	10	10	03-Jul-23	12-Jul-23	-96	0%	ND/2019/02 - 6D (with PH)
3340	P10-1T1170	FS Sprinkler pipe overhead with ceiling installation	10	10	31-Jul-23	10-Aug-23	-113	0%	ND/2019/02 - 6D (with PH)
3341	P10-1T1290	FS Sprinkler head, Alarm smoke detector, heat detector installation	10	10	17-Aug-23	28-Aug-23	-120	0%	ND/2019/02 - 6D (with PH)
3342	P10-1T1300	T&C of FS system	4	4	07-Oct-23	11-Oct-23	-156	0%	ND/2019/02 - 6D (with PH)
3343	PD		65	65	31-Jul-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
3344	P10-1T1240	setting out for pipeworks / San fit, & Installation of pipework at ceiling level	10	10	31-Jul-23	10-Aug-23	-80	0%	ND/2019/02 - 6D (with PH)
3345	P10-1T1250	Installation of pipework connection to drainage	10	10	10-Aug-23	21-Aug-23	-80	0%	ND/2019/02 - 6D (with PH)



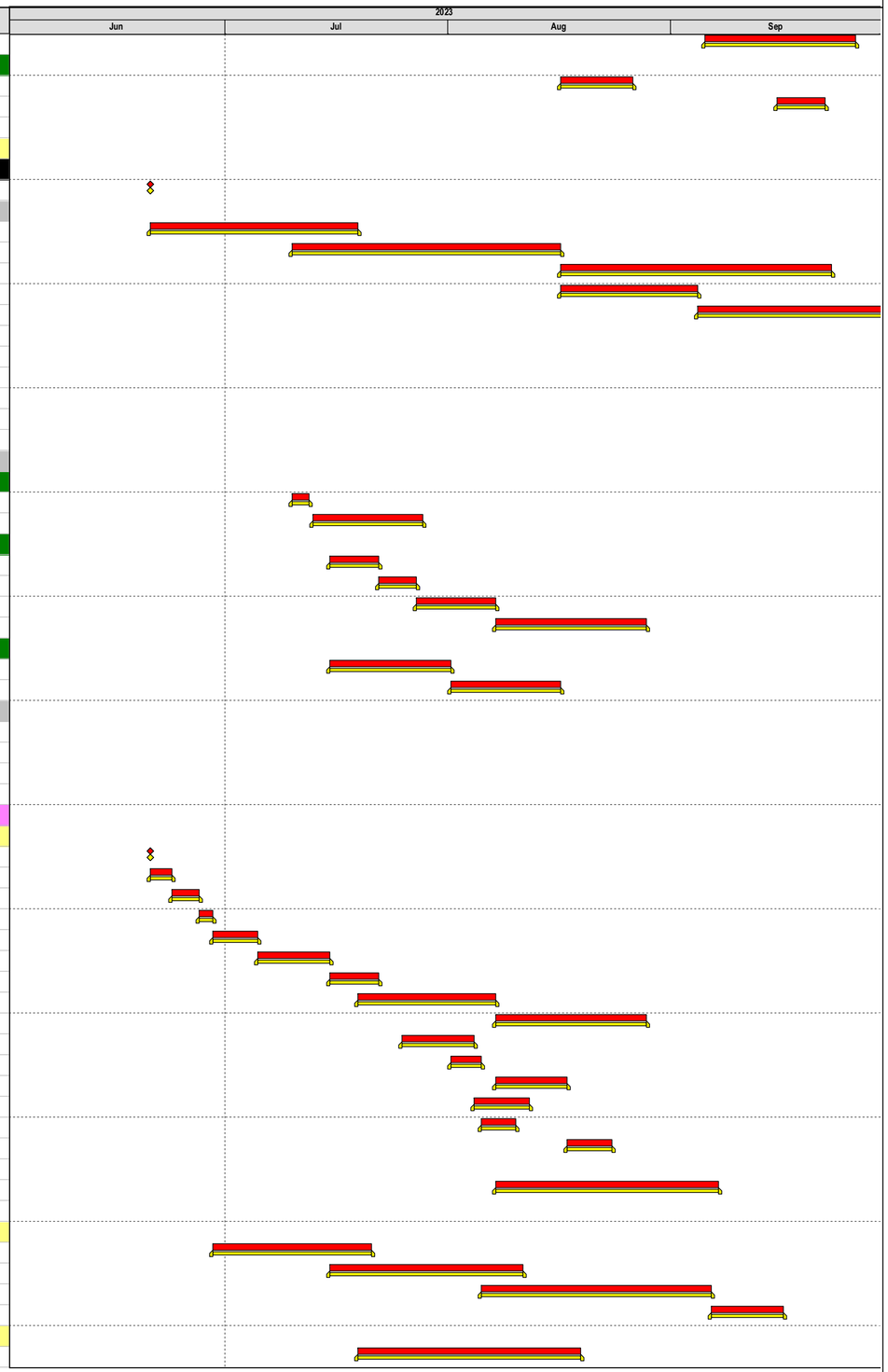
#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3346	P10-1T1260	Installation of pipework connection to sanitary fitting	10	10	21-Aug-23	31-Aug-23	-80	0%	ND/2019/02 - 6D (with PH)
3347	P10-1T1270	T&C of PD system	2	2	07-Oct-23	09-Oct-23	-113	0%	ND/2019/02 - 6D (with PH)
3348	EL		90	90	04-Jul-23	09-Oct-23	-159	0%	ND/2019/02 - 6D (with PH)
3349	P10-1T1200	Setting out for all equipment / MOS inspection	2	2	04-Jul-23	06-Jul-23	-107	0%	ND/2019/02 - 6D (with PH)
3350	P10-1T1205	Electrical conduit installation	12	12	06-Jul-23	19-Jul-23	-107	0%	ND/2019/02 - 6D (with PH)
3351	P10-1T1210	Installation of cable containment	8	8	31-Jul-23	08-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3352	P10-1T1220	Cable wiring	12	12	08-Aug-23	21-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3353	P10-1T1230	Installation of Lighting fitting and small power provision	10	10	21-Aug-23	31-Aug-23	-126	0%	ND/2019/02 - 6D (with PH)
3354	P10-1T1280	T&C of Electrical System	2	2	07-Oct-23	09-Oct-23	-159	0%	ND/2019/02 - 6D (with PH)
3355	Senior Forestry Officer Office		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3356	P10-1F-SFO1180	Access Date of 1/F SFO Office Fitting Out	0	0	20-Jun-23		-135	0%	ND/2019/02 - 6D (with PH)
3357	ABWF		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3358	P10-1F-SFO1000	Setting Out	2	2	20-Jun-23	23-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3359	P10-1F-SFO1010	Erect Scaffolding for wall and ceiling finishes	2	2	23-Jun-23	26-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3360	P10-1F-SFO1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	26-Jun-23	10-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3361	P10-1F-SFO1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	10-Jul-23	22-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3362	P10-1F-SFO1040	Floor Screeding	2	2	22-Jul-23	24-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3363	P10-1F-SFO1060	Ceiling Grid Installation	6	6	24-Jul-23	31-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3364	P10-1F-SFO1070	Plastic Laminate Installation	6	6	31-Jul-23	05-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)
3365	P10-1F-SFO1160	Ceiling Board Installation	8	8	12-Sep-23	20-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3366	P10-1F-SFO1165	Raised Floor Installation	12	12	20-Sep-23	05-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3367	P10-1F-SFO1170	Loose Furniture Installation	8	8	05-Oct-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3368	BS Works		49	49	22-Jul-23	12-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3369	MVAC		21	21	22-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3370	P10-1F-SFO1100	Setting out for all equipment / MOS inspection	3	3	22-Jul-23	25-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3371	P10-1F-SFO1110	Air Duct installation	18	18	25-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3372	EL		49	49	22-Jul-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3373	P10-1F-SFO1120	Setting out for all equipment / MOS inspection	10	10	22-Jul-23	02-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3374	P10-1F-SFO1130	Installation of cable containment	5	5	02-Aug-23	07-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3375	P10-1F-SFO1140	Cable wiring	10	10	07-Aug-23	17-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3376	P10-1F-SFO1150	Installation of Lighting fitting and small power provision	24	24	17-Aug-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3377	FS		40	40	25-Jul-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3378	P10-1F-SFO1080	FS Piping, cable containment Installation	20	20	25-Jul-23	15-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3379	P10-1F-SFO1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	20	15-Aug-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3380	Server Room		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3381	P10-1F-SER1180	Access Date of 1/F Server Room Fitting Out	0	0	20-Jun-23		-135	0%	ND/2019/02 - 6D (with PH)
3382	ABWF		105	105	20-Jun-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3383	P10-1F-SER1000	Setting Out	2	2	20-Jun-23	23-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3384	P10-1F-SER1010	Erect Scaffolding for wall and ceiling finishes	2	2	23-Jun-23	26-Jun-23	-135	0%	ND/2019/02 - 6D (with PH)
3385	P10-1F-SER1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	26-Jun-23	10-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3386	P10-1F-SER1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	10-Jul-23	22-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3387	P10-1F-SER1040	Floor Screeding	2	2	22-Jul-23	24-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3388	P10-1F-SER1060	Ceiling Grid Installation	6	6	24-Jul-23	31-Jul-23	-118	0%	ND/2019/02 - 6D (with PH)
3389	P10-1F-SER1070	Plastic Laminate Installation	6	6	31-Jul-23	05-Aug-23	-118	0%	ND/2019/02 - 6D (with PH)
3390	P10-1F-SER1160	Ceiling Board Installation	8	8	12-Sep-23	20-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3391	P10-1F-SER1165	Floor Carpet Installation	12	12	20-Sep-23	05-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3392	P10-1F-SER1170	Loose Furniture Installation	8	8	05-Oct-23	13-Oct-23	-131	0%	ND/2019/02 - 6D (with PH)
3393	BS Works		49	49	22-Jul-23	12-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3394	MVAC		21	21	22-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3395	P10-1F-SER1100	Setting out for all equipment / MOS inspection	3	3	22-Jul-23	25-Jul-23	-135	0%	ND/2019/02 - 6D (with PH)
3396	P10-1F-SER1110	Air Duct installation	18	18	25-Jul-23	12-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3397	EL		49	49	22-Jul-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3398	P10-1F-SER1120	Setting out for all equipment / MOS inspection	10	10	22-Jul-23	02-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3399	P10-1F-SER1130	Installation of cable containment	5	5	02-Aug-23	07-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3400	P10-1F-SER1140	Cable wiring	10	10	07-Aug-23	17-Aug-23	-135	0%	ND/2019/02 - 6D (with PH)
3401	P10-1F-SER1150	Installation of Lighting fitting and small power provision	24	24	17-Aug-23	12-Sep-23	-135	0%	ND/2019/02 - 6D (with PH)
3402	FS		40	40	25-Jul-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3403	P10-1F-SER1080	FS Piping, cable containment Installation	20	20	25-Jul-23	15-Aug-23	-125	0%	ND/2019/02 - 6D (with PH)
3404	P10-1F-SER1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	20	15-Aug-23	05-Sep-23	-125	0%	ND/2019/02 - 6D (with PH)
3405	BOH		50	50	19-Jul-23	09-Sep-23	-74	0%	ND/2019/02 - 6D (with PH)
3406	Staircase		50	50	19-Jul-23	09-Sep-23	-74	0%	ND/2019/02 - 6D (with PH)
3407	ST-06		50	50	19-Jul-23	09-Sep-23	-74	0%	ND/2019/02 - 6D (with PH)
3408	ABWF		50	50	19-Jul-23	09-Sep-23	-101	0%	ND/2019/02 - 6D (with PH)
3409	P10-1F-ST6-1000	Setting Out	2	2	19-Jul-23	21-Jul-23	-108	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3410	P10-1F-ST6-1010	Erect Scaffolding for wall and ceiling finishes	2	2	21-Jul-23	22-Jul-23	-108	0%	ND/2019/02 - 6D (with PH)
3411	P10-1F-ST6-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	12	12	22-Jul-23	04-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3412	P10-1F-ST6-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	12	12	04-Aug-23	17-Aug-23	-101	0%	ND/2019/02 - 6D (with PH)
3413	P10-1F-ST6-1040	Staircase Screeding	2	2	25-Aug-23	28-Aug-23	-101	0%	ND/2019/02 - 6D (with PH)
3414	P10-1F-ST6-1050	Staircase Tiling / Tactile Installation	8	8	17-Aug-23	25-Aug-23	-101	0%	ND/2019/02 - 6D (with PH)
3415	P10-1F-ST6-1060	Staircase Handrail installation	6	6	28-Aug-23	02-Sep-23	-101	0%	ND/2019/02 - 6D (with PH)
3416	P10-1F-ST6-1070	Staircase Wall Painting	6	6	02-Sep-23	09-Sep-23	-101	0%	ND/2019/02 - 6D (with PH)
3417	**BS Works**		16	16	04-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3418	**PD**		16	16	04-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3419	P10-1F-ST6-1100	Water piping works Installation	10	10	04-Aug-23	15-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3420	P10-1F-ST6-1110	Floor Drain Installation	6	6	15-Aug-23	22-Aug-23	-56	0%	ND/2019/02 - 6D (with PH)
3421	**FS**		14	14	04-Aug-23	19-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3422	P10-1F-ST6-1080	FS Piping, cable containment Installation	6	6	04-Aug-23	11-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3423	P10-1F-ST6-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	8	8	11-Aug-23	19-Aug-23	-108	0%	ND/2019/02 - 6D (with PH)
3424	**Zone 3**		201	201	10-Aug-23	19-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3425	**Office & Office Room 1 & 2**		193	193	10-Aug-23	09-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3426	P10-1FOF-1000	Access Date of 1/F Office Room 1 & 2 Fitting Out	0	0	10-Aug-23		-171	0%	ND/2019/02 - 6D (with PH)
3427	**ABWF**		193	193	10-Aug-23	09-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3428	P10-1FOF-1010	Setting Out	2	2	10-Aug-23	12-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3429	P10-1FOF-1020	Erect Scaffolding for wall and ceiling finishes	2	2	12-Aug-23	14-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3430	P10-1FOF-1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	21	21	14-Aug-23	05-Sep-23	-171	0%	ND/2019/02 - 6D (with PH)
3431	P10-1FOF-1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	24	24	05-Sep-23	03-Oct-23	-171	0%	ND/2019/02 - 6D (with PH)
3432	P10-1FOF-1050	Floor Screeding	4	4	03-Oct-23	06-Oct-23	-171	0%	ND/2019/02 - 6D (with PH)
3433	P10-1FOF-1060	Ceiling Grid Installation	24	24	07-Oct-23	02-Nov-23	-171	0%	ND/2019/02 - 6D (with PH)
3434	P10-1FOF-1065	Motorized Roller Blind Installation at Office Skylight	14	14	02-Nov-23	17-Nov-23	-171	0%	ND/2019/02 - 6D (with PH)
3435	P10-1FOF-1070	Ceiling Board Installation & Take Down Working Platform	30	30	08-Nov-23	09-Dec-23	-171	0%	ND/2019/02 - 6D (with PH)
3436	P10-1FOF-1160	Plastic Laminate Installation	8	8	05-Feb-24	16-Feb-24	-170	0%	ND/2019/02 - 6D (with PH)
3437	P10-1FOF-1170	Raised Floor Installation	12	12	16-Feb-24	28-Feb-24	-170	0%	ND/2019/02 - 6D (with PH)
3438	P10-1FOF-1180	Loose Furniture Installation	10	10	29-Feb-24	09-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3439	**BS Works**		64	64	14-Aug-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3440	**MVAC**		20	20	14-Aug-23	04-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3441	P10-1FOF-1100	Setting out for all equipment / MOS inspection	2	2	14-Aug-23	16-Aug-23	-123	0%	ND/2019/02 - 6D (with PH)
3442	P10-1FOF-1110	Air Duct installation	18	18	16-Aug-23	04-Sep-23	-123	0%	ND/2019/02 - 6D (with PH)
3443	**EL**		44	44	14-Aug-23	29-Sep-23	-152	0%	ND/2019/02 - 6D (with PH)
3444	P10-1FOF-1120	Setting out for all equipment / MOS inspection	2	2	14-Aug-23	16-Aug-23	-152	0%	ND/2019/02 - 6D (with PH)
3445	P10-1FOF-1130	Installation of cable containment	12	12	16-Aug-23	29-Aug-23	-152	0%	ND/2019/02 - 6D (with PH)
3446	P10-1FOF-1140	Cable wiring	12	12	29-Aug-23	11-Sep-23	-152	0%	ND/2019/02 - 6D (with PH)
3447	P10-1FOF-1150	Installation of Lighting fitting and small power provision	18	18	11-Sep-23	29-Sep-23	-152	0%	ND/2019/02 - 6D (with PH)
3448	**FS**		64	64	14-Aug-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3449	P10-1FOF-1080	FS Piping, cable containment Installation	20	20	14-Aug-23	04-Sep-23	-153	0%	ND/2019/02 - 6D (with PH)
3450	P10-1FOF-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	15	04-Sep-23	20-Sep-23	-153	0%	ND/2019/02 - 6D (with PH)
3451	P10-1FOF-1190	T&C of FS provision at Office Room Area	15	15	07-Oct-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3452	**Main Office**		199	199	12-Aug-23	19-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3453	P10-1FOF1010	Access Date of 1/F Main Office Fitting Out	0	0	12-Aug-23		-171	0%	ND/2019/02 - 6D (with PH)
3454	**ABWF**		199	199	12-Aug-23	19-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3455	P10-1FOF1160	Setting Out	2	2	12-Aug-23	14-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3456	P10-1FOF1170	Erect Scaffolding for wall and ceiling finishes	2	2	14-Aug-23	16-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3457	P10-1FOF1180	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	20	20	16-Aug-23	06-Sep-23	-171	0%	ND/2019/02 - 6D (with PH)
3458	P10-1FOF1190	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	20	20	21-Aug-23	11-Sep-23	-171	0%	ND/2019/02 - 6D (with PH)
3459	P10-1FOF1200	Floor Screeding	10	10	04-Sep-23	14-Sep-23	-171	0%	ND/2019/02 - 6D (with PH)
3460	P10-1FOF1210	Ceiling Grid Installation	28	28	13-Sep-23	14-Oct-23	-171	0%	ND/2019/02 - 6D (with PH)
3461	P10-1FOF1215	Motorized Roller Blind Installation at Office Skylight	12	12	14-Oct-23	28-Oct-23	-171	0%	ND/2019/02 - 6D (with PH)
3462	P10-1FOF1220	Ceiling Board Installation & Take Down Working Platform	40	40	28-Oct-23	09-Dec-23	-171	0%	ND/2019/02 - 6D (with PH)
3463	P10-1FOF1230	Plastic Laminate Installation (after FS Inspection)	10	10	05-Feb-24	17-Feb-24	-170	0%	ND/2019/02 - 6D (with PH)
3464	P10-1FOF1245	Raised Floor Installation (after FS Inspection)	18	18	20-Feb-24	09-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3465	P10-1FOF1250	Loose Furniture Installation (after FS Inspection)	8	8	11-Mar-24	19-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3466	**BS Works**		62	62	16-Aug-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3467	**MVAC**		47	47	16-Aug-23	06-Oct-23	-152	0%	ND/2019/02 - 6D (with PH)
3468	P10-1F-OF1280	Setting out for all equipment / MOS inspection	2	2	16-Aug-23	18-Aug-23	-149	0%	ND/2019/02 - 6D (with PH)
3469	P10-1F-OF1290	Air Duct installation	21	21	13-Sep-23	06-Oct-23	-152	0%	ND/2019/02 - 6D (with PH)
3470	**EL**		39	39	16-Aug-23	26-Sep-23	-149	0%	ND/2019/02 - 6D (with PH)
3471	P10-1F-OF1300	Setting out for all equipment / MOS inspection	2	2	16-Aug-23	18-Aug-23	-149	0%	ND/2019/02 - 6D (with PH)
3472	P10-1F-OF1310	Installation of cable containment	10	10	21-Aug-23	31-Aug-23	-149	0%	ND/2019/02 - 6D (with PH)
3473	P10-1F-OF1320	Cable wiring	20	20	31-Aug-23	21-Sep-23	-149	0%	ND/2019/02 - 6D (with PH)



#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3474	P10-1F-OF1330	Installation of Lighting fitting and small power provision	20	20	05-Sep-23	26-Sep-23	-149	0%	ND/2019/02 - 6D (with PH)
3475	**FS**		62	62	16-Aug-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3476	P10-1F-OF1260	FS Piping, cable containment Installation	10	10	16-Aug-23	26-Aug-23	-136	0%	ND/2019/02 - 6D (with PH)
3477	P10-1F-OF1270	FS Sprinkler head, Alarm smoke detector, heat detector installation	6	6	15-Sep-23	22-Sep-23	-155	0%	ND/2019/02 - 6D (with PH)
3478	P10-1FOF-1200	T&C of FS provision at Office Room Area	15	15	07-Oct-23	24-Oct-23	-167	0%	ND/2019/02 - 6D (with PH)
3479	**Zone 4**		250	250	20-Jun-23	21-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3480	**External Area**		250	250	20-Jun-23	21-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3481	P10-1F-EXT1000	Access Date of 1/F External Area Fitting Out	0	0	20-Jun-23		-143	0%	ND/2019/02 - 6D (with PH)
3482	**ABWF**		239	239	20-Jun-23	09-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3483	P10-1F-EXT1010	Erection of external scaffolding	25	25	20-Jun-23	19-Jul-23	-143	0%	ND/2019/02 - 6D (with PH)
3484	P10-1F-EXT1020	Aluminium Baffle Ceiling Grid Installation	36	36	10-Jul-23	16-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
3485	P10-1F-EXT1030	Aluminium Baffle Ceiling Board Installation	36	36	16-Aug-23	23-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3486	P10-1F-EXT1043	External Wall metal grille Installation	18	18	16-Aug-23	04-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3487	P10-1F-EXT1045	Steel Staircase (ST-01) Installation	25	25	04-Sep-23	03-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3488	P10-1F-EXT1050	Removal of external wall scaffolding	6	6	03-Oct-23	09-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3489	P10-1F-EXT1120	Floor Drainage Laying	20	20	09-Oct-23	31-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3490	P10-1F-EXT1130	Waterproofing, testing and placing insulation with protection screed	20	20	16-Oct-23	07-Nov-23	-147	0%	ND/2019/02 - 6D (with PH)
3491	P10-1F-EXT1140	Steel Staircase (ST-01) Finishes	20	20	24-Oct-23	14-Nov-23	-147	0%	ND/2019/02 - 6D (with PH)
3492	P10-1F-EXT1150	Glass Balustrade Installation	20	20	05-Feb-24	28-Feb-24	-159	0%	ND/2019/02 - 6D (with PH)
3493	P10-1F-EXT1160	Timber Deck Installation	20	20	19-Feb-24	09-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3494	**BS Works**		47	47	10-Jul-23	28-Aug-23	-115	0%	ND/2019/02 - 6D (with PH)
3495	**MVAC**		18	18	10-Jul-23	28-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
3496	P10-1F-EXT1060	Setting out for all equipment / MOS inspection	3	3	10-Jul-23	12-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
3497	P10-1F-EXT1070	Air Duct installation	15	15	13-Jul-23	28-Jul-23	-129	0%	ND/2019/02 - 6D (with PH)
3498	**EL**		41	41	15-Jul-23	28-Aug-23	-115	0%	ND/2019/02 - 6D (with PH)
3499	P10-1F-EXT1080	Setting out for all equipment / MOS inspection	6	6	15-Jul-23	22-Jul-23	-147	0%	ND/2019/02 - 6D (with PH)
3500	P10-1F-EXT1090	Installation of cable containment	5	5	22-Jul-23	27-Jul-23	-128	0%	ND/2019/02 - 6D (with PH)
3501	P10-1F-EXT1100	Cable wiring	10	10	27-Jul-23	07-Aug-23	-115	0%	ND/2019/02 - 6D (with PH)
3502	P10-1F-EXT1110	Installation of Lighting fitting and small power provision	20	20	07-Aug-23	28-Aug-23	-115	0%	ND/2019/02 - 6D (with PH)
3503	**FS**		30	30	15-Jul-23	16-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
3504	P10-1F-EXT1300	FS Piping, cable containment Installation	15	15	15-Jul-23	01-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
3505	P10-1F-EXT1310	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	15	01-Aug-23	16-Aug-23	-147	0%	ND/2019/02 - 6D (with PH)
3506	**Landscape Works**		143	143	16-Oct-23	21-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3507	P10-1F-EXT1320	Planters Waterproofing	20	20	16-Oct-23	07-Nov-23	-143	0%	ND/2019/02 - 6D (with PH)
3508	P10-1F-EXT1330	Irrigation Pipes, Sub-soil Drainage installation	15	15	25-Oct-23	09-Nov-23	-143	0%	ND/2019/02 - 6D (with PH)
3509	P10-1F-EXT1340	Placing Planting Soil	24	24	05-Feb-24	04-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3510	P10-1F-EXT1350	Shurbs Planting works (1,595nos)	30	30	19-Feb-24	21-Mar-24	-170	0%	ND/2019/02 - 6D (with PH)
3511	**Roof Floor**		227	227	20-Jun-23	27-Feb-24	-165	0%	ND/2019/02 - 6D (with PH)
3512	**ABWF**		227	227	20-Jun-23	27-Feb-24	-165	0%	ND/2019/02 - 6D (with PH)
3513	P10-RF1000	Access Date of Roof Fitting Out	0	0	20-Jun-23		-171	0%	ND/2019/02 - 6D (with PH)
3514	P10-RF1010	Setting Out	2	2	20-Jun-23	23-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
3515	P10-RF1020	Roof RC Structure Water Testing before waterproofing	3	3	23-Jun-23	27-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
3516	P10-RF1030	Remedial and touch up works before applying waterproofing	2	2	27-Jun-23	29-Jun-23	-171	0%	ND/2019/02 - 6D (with PH)
3517	P10-RF1040	Applying Roof waterproofing Membrane	5	5	29-Jun-23	05-Jul-23	-171	0%	ND/2019/02 - 6D (with PH)
3518	P10-RF1050	Water Testing & Infra red testing	10	10	05-Jul-23	15-Jul-23	-171	0%	ND/2019/02 - 6D (with PH)
3519	P10-RF1060	Laying Insulation board with protection floor screed	6	6	15-Jul-23	22-Jul-23	-171	0%	ND/2019/02 - 6D (with PH)
3520	P10-RF1070	Laying Floor finishes	18	18	19-Jul-23	07-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3521	P10-RF1080	Roof Dog House BS Installation	20	20	07-Aug-23	28-Aug-23	-131	0%	ND/2019/02 - 6D (with PH)
3522	P10-RF1081	Roof Skylight Steelwork / Frame Installation (Top of Main Office: 4nos)	10	10	25-Jul-23	04-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3523	P10-RF1082	Roof Skylight Steelwork / Frame Installation (Top of Office Room 1 & 2: 2nos)	5	5	01-Aug-23	05-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3524	P10-RF1083	Roof Skylight Steelwork / Frame Installation (Ext. Area: 4nos)	10	10	07-Aug-23	17-Aug-23	-111	0%	ND/2019/02 - 6D (with PH)
3525	P10-RF1084	Roof Skylight Glazing Installation (Top of Main Office: 4nos)	7	7	04-Aug-23	12-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3526	P10-RF1085	Roof Skylight Glazing Installation (Top of Office Room 1 & 2: 2nos)	4	4	05-Aug-23	10-Aug-23	-171	0%	ND/2019/02 - 6D (with PH)
3527	P10-RF1086	Roof Skylight Glazing Installation (Ext. Area: 4nos)	6	6	17-Aug-23	23-Aug-23	-111	0%	ND/2019/02 - 6D (with PH)
3528	P10-RF1090	Hatch Door and Cat Ladder Installation	10	10	05-Oct-23	16-Oct-23	-64	0%	ND/2019/02 - 6D (with PH)
3529	P10-RF1095	PV Panel Installation	30	30	07-Aug-23	07-Sep-23	-131	0%	ND/2019/02 - 6D (with PH)
3530	P10-RF1100	Roof Balustrade & Fall Arrest system Installation	18	18	05-Feb-24	27-Feb-24	-165	0%	ND/2019/02 - 6D (with PH)
3531	**BS Works**		75	75	29-Jun-23	16-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3532	P10-RF1150	BS 1st Fixing (Elec, Water, Irrigation piping, AC Ducting and piping)	20	20	29-Jun-23	21-Jul-23	-140	0%	ND/2019/02 - 6D (with PH)
3533	P10-RF1160	BS 2nd Fixing (Elec, Water, Irrigation System connection, AC VOU Units and connection)	25	25	15-Jul-23	11-Aug-23	-140	0%	ND/2019/02 - 6D (with PH)
3534	P10-RF1165	BS final Fixing	30	30	05-Aug-23	06-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3535	P10-RF1170	T&C of Roof BS System	10	10	06-Sep-23	16-Sep-23	-140	0%	ND/2019/02 - 6D (with PH)
3536	**Landscape Works**		92	92	19-Jul-23	27-Oct-23	-129	0%	ND/2019/02 - 6D (with PH)
3537	P10-RF1115	Roof Planters Drainages, irrigation pipe, Artiifcal Granite Tile Installation	30	30	19-Jul-23	19-Aug-23	-122	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

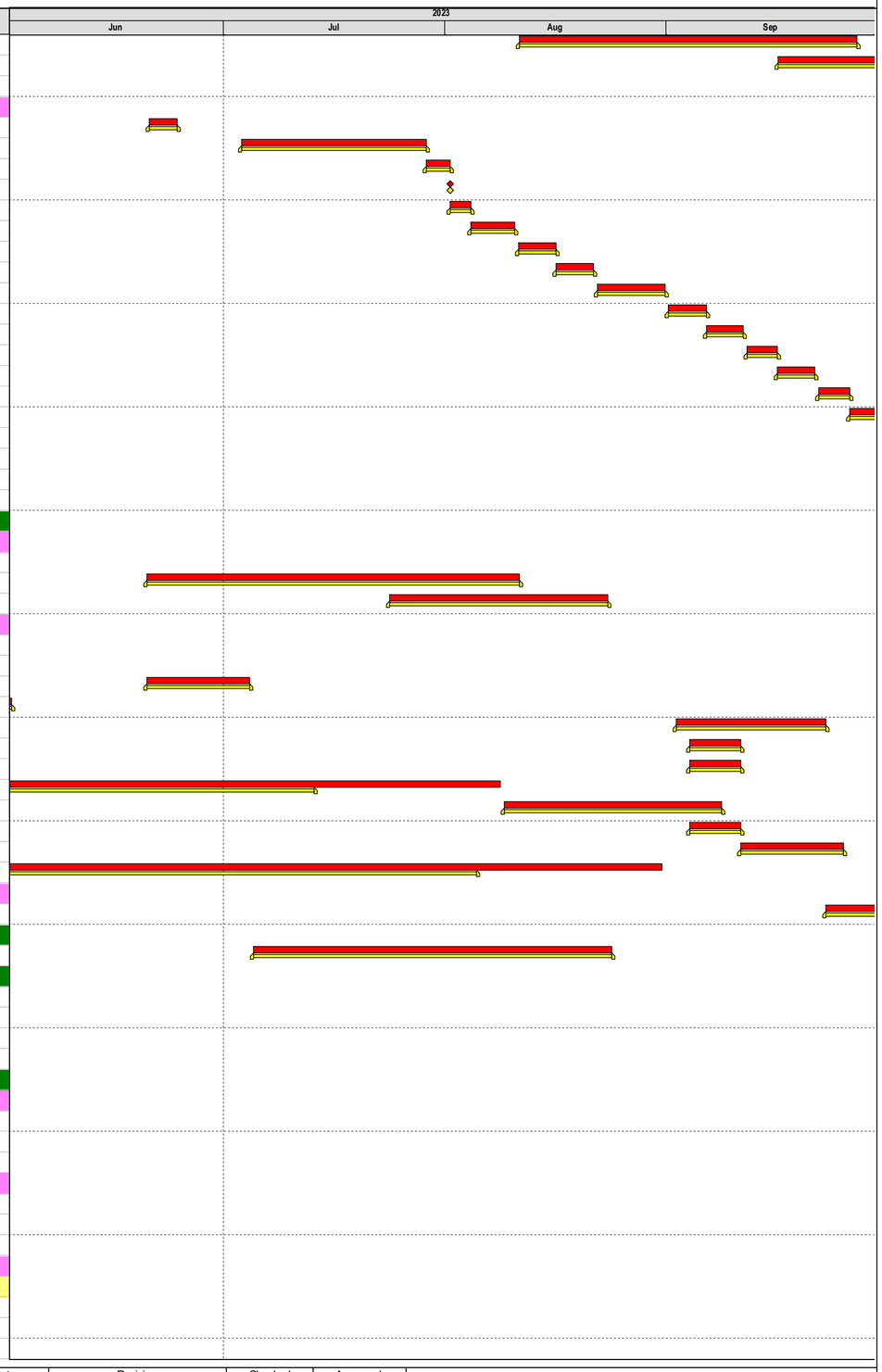
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3538	P10-RF1120	Soil Backfilling to Roof Planters	45	45	11-Aug-23	27-Sep-23	-129	0%	ND/2019/02 - 6D (with PH)
3539	P10-RF1130	Shurbs Planting works to roof floor (4,290 nos)	20	20	16-Sep-23	10-Oct-23	-129	0%	ND/2019/02 - 6D (with PH)
3540	P10-RF1180	Water Points installation for irrigation	20	20	05-Oct-23	27-Oct-23	-129	0%	ND/2019/02 - 6D (with PH)
3541	**Lift Installation**		113	113	20-Jun-23	21-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3542	P10-LT0900	Builder's works before handover to Cladding contractor installation	3	3	20-Jun-23	24-Jun-23	-150	0%	ND/2019/02 - 6D (with PH)
3543	P10-LT1000	Lift External wall Cladding Installation	25	25	03-Jul-23	29-Jul-23	-157	0%	ND/2019/02 - 6D (with PH)
3544	P10-LT1005	Erection of Scaffolding and Lift Shaft checking	3	3	29-Jul-23	01-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3545	P10-LT1007	Commence Lift Installation	0	0		01-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3546	P10-LT1010	Lift Shaft Plumbing	3	3	01-Aug-23	04-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3547	P10-LT1020	Guide Rail Brackets, Guide Rail and Door Frame Installation	6	6	04-Aug-23	10-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3548	P10-LT1030	Grouting of Lift Door Frame	5	5	11-Aug-23	16-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3549	P10-LT1040	Car Sling, Hoisting ropes, and counter weight frame	5	5	16-Aug-23	21-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3550	P10-LT1050	Lift Cart Assembly	10	10	22-Aug-23	31-Aug-23	-157	0%	ND/2019/02 - 6D (with PH)
3551	P10-LT1060	Landing Door Installation	5	5	01-Sep-23	06-Sep-23	-157	0%	ND/2019/02 - 6D (with PH)
3552	P10-LT1070	Machine controller and Governor Installation	5	5	06-Sep-23	11-Sep-23	-157	0%	ND/2019/02 - 6D (with PH)
3553	P10-LT1080	Trunking and Conduit in lift Shaft	5	5	12-Sep-23	16-Sep-23	-157	0%	ND/2019/02 - 6D (with PH)
3554	P10-LT1090	Lift Shaft Wiring	5	5	16-Sep-23	21-Sep-23	-157	0%	ND/2019/02 - 6D (with PH)
3555	P10-LT1100	Removing of Scaffolding, Erect lift plinth and install cat ladder	4	4	22-Sep-23	26-Sep-23	-157	0%	ND/2019/02 - 6D (with PH)
3556	P10-LT1110	Pit Equipments	4	4	26-Sep-23	03-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3557	P10-LT1120	Wiring outside lift shaft for lift supervision panel	6	6	03-Oct-23	09-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3558	P10-LT1130	Builders Works (Call Button, indicator Panel) prior to LE5 Submission	6	6	09-Oct-23	14-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3559	P10-LT1140	T&C (Low Speed)	3	3	16-Oct-23	18-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3560	P10-LT1150	T&C (High Speed)	3	3	18-Oct-23	21-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3561	**External Works**		318	171	15-Nov-22 A	03-Nov-23	-136	46.42%	ND/2019/02 - 6D (with PH)
3562	**Retaining wall**		159	106	28-Feb-23 A	23-Aug-23	-121	33.61%	ND/2019/02 - 6D (with PH)
3563	P10-4140	Construction of U trough Structure KW-09 (6 Bays @ 7.5m / Bay)	48	19	28-Feb-23 A	22-May-23	-65	60.42%	ND/2019/02 - 6D (with PH)
3564	P10-4145	Construction of Retaining Wall KW-14 (11 Bays @ 7.5m / Bay)	48	48	20-Jun-23	11-Aug-23	-121	0%	ND/2019/02 - 6D (with PH)
3565	P10-4150	Backfill to +7.5mPD	30	30	24-Jul-23	23-Aug-23	-121	0%	ND/2019/02 - 6D (with PH)
3566	**Underground Utilities Connection**		284	137	15-Nov-22 A	25-Sep-23	-102	51.97%	ND/2019/02 - 6D (with PH)
3567	P10-2301	Construction of Manhole SMH-04 for connection of rainwater Tank	15	0	15-Nov-22 A	01-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
3568	P10-2311	Underground Drainage and sewerage installation near U trough Structure KW-09	20	17	28-Mar-23 A	19-May-23	-150	12.78%	ND/2019/02 - 6D (with PH)
3569	P10-2311.1	Underground sewerage Installation and Temp. Sewerage Tank connection	12	12	20-Jun-23	04-Jul-23	-73	0%	ND/2019/02 - 6D (with PH)
3570	P10-2312	ELS, Trench excavation for drainage pipe (65m long, -0.72mPD to -1.03mPD)	28	28	02-May-23*	01-Jun-23	-51	0%	ND/2019/02 - 6D (with PH)
3571	P10-2313	Sewerage pipe laying (65m) (DN1050)	20	20	02-Sep-23	23-Sep-23	-150	0%	ND/2019/02 - 6D (with PH)
3572	P10-2314	Connection of fresh water to existing watermains	7	7	04-Sep-23	11-Sep-23	-88	0%	ND/2019/02 - 6D (with PH)
3573	P10-2315	Connection of Salt water to existing watermains	7	7	04-Sep-23	11-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3574	P10-2316	Installation of 11KV Cables along sub-station from HSH Pai Lau to Vistor Centre EVA (~500m @ 2wks/50m)	107	91	15-Mar-23 A	08-Aug-23	-145	14.58%	ND/2019/02 - 6D (with PH)
3575	P10-2317	Underground Cables Laying (Under EVA)	30	30	09-Aug-23	08-Sep-23	-145	0%	ND/2019/02 - 6D (with PH)
3576	P10-2318	Connection of Main pipe to Street Hydrant outside premises	7	7	04-Sep-23	11-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3577	P10-2320	Install Street Hydrant outside premises	14	14	11-Sep-23	25-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3578	P10-4160	Installation of FTNS Cables from HSH Pai Lau to Vistor Centre MDF Room (~500m @ 2wks/50m)	128	112	15-Mar-23 A	31-Aug-23	-149	12.15%	ND/2019/02 - 6D (with PH)
3579	**EVA Construction**		36	36	23-Sep-23	03-Nov-23	-150	0%	ND/2019/02 - 6D (with PH)
3580	P10-2330	Construction of EVA and Parking Spaces	36	36	23-Sep-23	03-Nov-23	-150	0%	ND/2019/02 - 6D (with PH)
3581	**Signage Works**		48	48	05-Jul-23	24-Aug-23	-86	0%	ND/2019/02 - 6D (with PH)
3582	P10-SG-1000	Placing Statutory Signages and ready for FS Inspection	48	48	05-Jul-23*	24-Aug-23	-86	0%	ND/2019/02 - 6D (with PH)
3583	**Building Services T&C**		56	56	09-Oct-23	08-Dec-23	-129	0%	ND/2019/02 - 6D (with PH)
3584	P10-4080	Overall Building Services T&C (MVAC System)	40	40	09-Oct-23	21-Nov-23	-154	0%	ND/2019/02 - 6D (with PH)
3585	P10-4100	Overall Building Services T&C (Water Supply System)	40	40	27-Oct-23	08-Dec-23	-129	0%	ND/2019/02 - 6D (with PH)
3586	P10-4110	Overall Building Services T&C (Electrical System)	32	32	09-Oct-23	13-Nov-23	-159	0%	ND/2019/02 - 6D (with PH)
3587	P10-4120	Overall Building Services T&C (FS System)	27	27	24-Oct-23	21-Nov-23	-167	0%	ND/2019/02 - 6D (with PH)
3588	**Statutory Inspection**		271	271	25-Sep-23	25-Jul-24	141	0%	ND/2019/02 - 6D (with PH)
3589	**EMSD Inspection (Lift)**		18	18	21-Oct-23	10-Nov-23	-157	0%	ND/2019/02 - 6D (with PH)
3590	P10-LT2000	Submit Form LE5 For EMSD Inspection	1	1	21-Oct-23	24-Oct-23	-157	0%	ND/2019/02 - 6D (with PH)
3591	P10-LT2010	EMSD Inspection	2	2	31-Oct-23	02-Nov-23	-157	0%	ND/2019/02 - 6D (with PH)
3592	P10-LT2020	Issue Lift Certificate (Form LE6)	1	1	09-Nov-23	10-Nov-23	-157	0%	ND/2019/02 - 6D (with PH)
3593	**DSD Inspection**		37	37	12-Oct-23	21-Nov-23	-103	0%	ND/2019/02 - 6D (with PH)
3594	P10-WSD1090	Submit Form for DSD Inspection	1	1	12-Oct-23	13-Oct-23	-103	0%	ND/2019/02 - 6D (with PH)
3595	P10-WSD1100	DSD Inspection	7	7	28-Oct-23	06-Nov-23	-103	0%	ND/2019/02 - 6D (with PH)
3596	P10-WSD1110	Issue Drainage Completion Certificate by DSD	1	1	20-Nov-23	21-Nov-23	-103	0%	ND/2019/02 - 6D (with PH)
3597	**WSD Inspection**		116	116	25-Sep-23	01-Feb-24	-129	0%	ND/2019/02 - 6D (with PH)
3598	**Fresh Water / Salt Water / Cleansing Water / Irrigation Water Supply**		49	49	08-Dec-23	01-Feb-24	-129	0%	ND/2019/02 - 6D (with PH)
3599	P10-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Fresh Water Supply	1	1	08-Dec-23	09-Dec-23	-129	0%	ND/2019/02 - 6D (with PH)
3600	P10-WSD1010	WSD Inspection - Fresh Water Supply	7	7	03-Jan-24	10-Jan-24	-129	0%	ND/2019/02 - 6D (with PH)
3601	P10-WSD1020	Issue Water Certificate (Part V) - Fresh Water Supply	1	1	31-Jan-24	01-Feb-24	-129	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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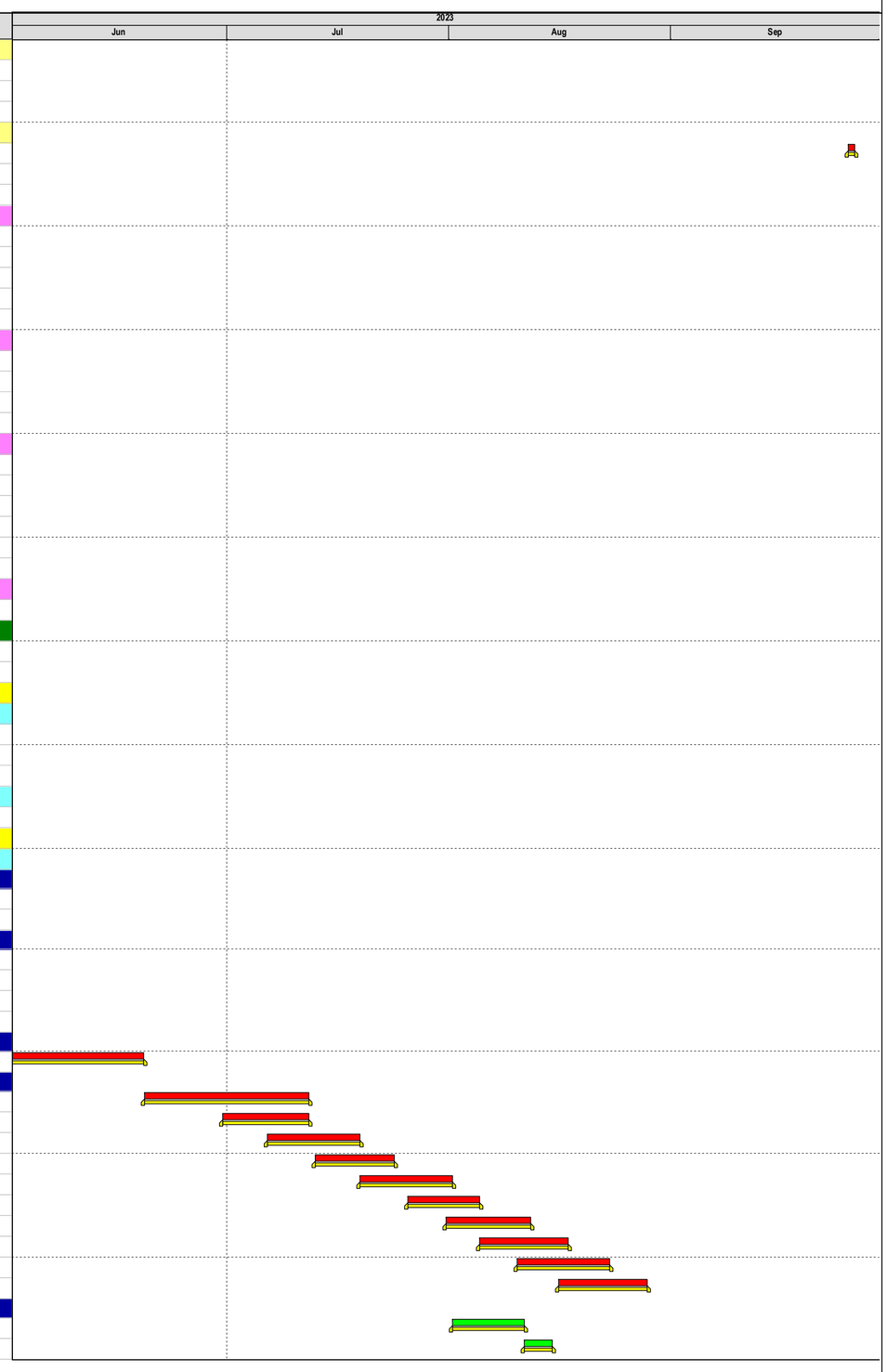
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3602	**FS Water Supply**		81	81	12-Oct-23	10-Jan-24	-109	0%	ND/2019/02 - 6D (with PH)
3603	P10-WSD1060	Submit Form WWO046 Part IV For WSD Inspection - FS Water Supply	1	1	12-Oct-23	13-Oct-23	-109	0%	ND/2019/02 - 6D (with PH)
3604	P10-WSD1070	WSD Inspection - FS Water Supply	7	7	21-Nov-23	29-Nov-23	-109	0%	ND/2019/02 - 6D (with PH)
3605	P10-WSD1080	Issue Water Certificate (Part V) - FS Water Supply	1	1	09-Jan-24	10-Jan-24	-109	0%	ND/2019/02 - 6D (with PH)
3606	**FS Street Hydrant**		31	31	25-Sep-23	31-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3607	P10-WSD1120	Submit Form WWO1082 For WSD Inspection - FS Street Hydrant	1	1	25-Sep-23	26-Sep-23	-147	0%	ND/2019/02 - 6D (with PH)
3608	P10-WSD1130	WSD Inspection - FS Street Hydrant	1	1	13-Oct-23	14-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3609	P10-WSD1140	Issue Completion Certificate for the connection of FS Street Hydrant	1	1	30-Oct-23	31-Oct-23	-147	0%	ND/2019/02 - 6D (with PH)
3610	**FSD Inspection**		95	95	21-Nov-23	07-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3611	P10-FSD1000	Submit FS Form 314 / 501 For FSD Inspection	1	1	21-Nov-23	22-Nov-23	-167	0%	ND/2019/02 - 6D (with PH)
3612	P10-FSD1100	1st round FS Inspection	7	7	09-Dec-23	16-Dec-23	-171	0%	ND/2019/02 - 6D (with PH)
3613	P10-FSD1210	Defect retification and Submit Form for Re-inspection	25	25	16-Dec-23	15-Jan-24	-171	0%	ND/2019/02 - 6D (with PH)
3614	P10-FSD1220	2nd round FS Inspection	7	7	27-Jan-24	03-Feb-24	-171	0%	ND/2019/02 - 6D (with PH)
3615	P10-FSD1230	Issue Fire Certificate (Form 172)	1	1	06-Mar-24	07-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3616	**BEAM PLUS Final Assessment**		95	95	21-Nov-23	07-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3617	P10-BP0090	Period of Collecting BEAM PLUS related documents, certificates	60	60	21-Nov-23	26-Jan-24	-142	0%	ND/2019/02 - 6D (with PH)
3618	P10-BP1000	Submit Inspection Form	1	1	26-Jan-24	27-Jan-24	-142	0%	ND/2019/02 - 6D (with PH)
3619	P10-BP1010	BEAM PLUS Inspection	2	2	05-Feb-24	06-Feb-24	-142	0%	ND/2019/02 - 6D (with PH)
3620	P10-BP1020	Issue Certificate	1	1	06-Mar-24	07-Mar-24	-159	0%	ND/2019/02 - 6D (with PH)
3621	**CEDD, ASD & EMSD Inspection**		53	53	05-Feb-24	08-Apr-24	-171	0%	ND/2019/02 - 6D (with PH)
3622	P10-CED0850	Post FSD Inspection Fitting out works	18	18	05-Feb-24	27-Feb-24	-171	0%	ND/2019/02 - 6D (with PH)
3623	P10-CED0900	Overall System T&C before Inspection	6	6	27-Feb-24	04-Mar-24	-171	0%	ND/2019/02 - 6D (with PH)
3624	P10-CED1000	Submit Inspection Form	1	1	04-Mar-24	05-Mar-24	-171	0%	ND/2019/02 - 6D (with PH)
3625	P10-CED1100	CEDD / ASD / EMSD Inspection	3	3	20-Mar-24	22-Mar-24	-171	0%	ND/2019/02 - 6D (with PH)
3626	P10-CED1200	Issue Completion Certificate	1	1	06-Apr-24	08-Apr-24	-171	0%	ND/2019/02 - 6D (with PH)
3627	P10-CED1300	Achieve KD1	0	0		08-Apr-24	-171	0%	ND/2019/02 - 6D (with PH)
3628	**BEE Ordinance Submission**		99	99	08-Apr-24	25-Jul-24	141	0%	ND/2019/02 - 6D (with PH)
3629	P10-CED1210	Submit document to EMSD for fulfilling Building Energy Efficiency Ordinance	99	99	08-Apr-24	25-Jul-24	141	0%	ND/2019/02 - 6D (with PH)
3630	**Switching Sewerage System**		455	455	09-Apr-24	08-Jul-25	-195	0%	
3631	P10-TS2260	Operation and decommissioning works for temporary sewerage system	360	360	09-Apr-24	02-Jul-25	-156	0%	ND/2019/02 - 7D (without PH)
3632	P10-TS2270	Switch back to permanent system	5	5	02-Jul-25	08-Jul-25	-171	0%	ND/2019/02 - 6D (with PH)
3633	**Works in Section 4A**		583	583	02-Dec-24	08-Jul-26	-194	0%	
3634	**Landscape Method Statement Submission**		57	57	02-Dec-24	06-Feb-25	-35	0%	ND/2019/02 - 6D (with PH)
3635	LA-SPS1120	Method Statement of Establishment Works - 1st submission to Project Manager	25	25	02-Dec-24*	30-Dec-24	-35	0%	ND/2019/02 - 6D (with PH)
3636	LA-SPS1130	Method Statement of Establishment Works - 1st submission to PM & review	16	16	30-Dec-24	16-Jan-25	-35	0%	ND/2019/02 - 6D (with PH)
3637	LA-SPS1140	Method Statement oof Establishment Works - 2nd submission to PM & approval	16	16	16-Jan-25	06-Feb-25	-35	0%	ND/2019/02 - 6D (with PH)
3638	**Establishment Works**		292	292	08-Jul-25	08-Jul-26	-155	0%	ND/2019/02 - 7D (without PH)
3639	B4a-1000	Establishment for landscape works in Section 1-4 and aftercare to old and valuable trees in Portion 2	292	292	08-Jul-25	08-Jul-26	-155	0%	ND/2019/02 - 7D (without PH)
3640	**Works in Section 5**		1153	389	30-Dec-20 A	05-Jul-24	-16	66.28%	ND/2019/02 - 6D (with PH)
3641	**Portion 11 - Village Resite Area**		1153	389	30-Dec-20 A	05-Jul-24	-16	66.28%	ND/2019/02 - 6D (with PH)
3642	**Preliminary Works**		651	0	30-Dec-20 A	21-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
3643	P11-1000	PMI Issuance for execution of the Works (1039 from Starting Date) (21 Dec 22)	0	0	21-Dec-22 A			100%	ND/2019/02 - 6D (with PH)
3644	P11-1005	Temporary Storage Area	595	0	30-Dec-20 A	19-Dec-22 A		100%	ND/2019/02 - 6D (with PH)
3645	**Ground Investigation Works**		103	15	22-Dec-22 A	17-May-23	-16	85.5%	ND/2019/02 - 6D (with PH)
3646	P11-1007	Site Formation of existing soil for Ground Investigation	17	0	22-Dec-22 A	12-Jan-23 A		100%	ND/2019/02 - 6D (with PH)
3647	P11-1010	Engineering GI x 3nos.	12	0	28-Feb-23 A	11-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
3648	P11-1015	Environmental GI & Trial Pit: 4nos. & Submission of report	31	1	28-Feb-23 A	02-May-23	-2	96.77%	ND/2019/02 - 6D (with PH)
3649	P11-1020	Submission and approval of GI report	24	15	21-Mar-23 A	17-May-23	-16	37.96%	ND/2019/02 - 6D (with PH)
3650	**Site Formation**		30	30	17-May-23	19-Jun-23	-16	0%	ND/2019/02 - 6D (with PH)
3651	P11-1030	Excavation and Cart Away High Arsenic Content Soil (Subjected to actual GI Result) (3000m3 @100m3/d)	30	30	17-May-23	19-Jun-23	-16	0%	ND/2019/02 - 6D (with PH)
3652	**Drainage Works (Level: (IL +5mPD to +6.25mPD)**		65	65	19-Jun-23	28-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3653	P11-1040	Sheet Pile installation (total length 140m with assume using type 4 sheet pile with 350pcs)	20	20	19-Jun-23	12-Jul-23	-16	0%	ND/2019/02 - 6D (with PH)
3654	P11-1042	Soft Excavation to 1st strut level	10	10	30-Jun-23	12-Jul-23	-16	0%	ND/2019/02 - 6D (with PH)
3655	P11-1044	Installation of 1st level strut S1	12	12	06-Jul-23	19-Jul-23	-16	0%	ND/2019/02 - 6D (with PH)
3656	P11-1046	Soft Excavation to F.L	10	10	13-Jul-23	24-Jul-23	-16	0%	ND/2019/02 - 6D (with PH)
3657	P11-1048	Bedding & Pipe Laying (Twins 225 and 300mm)	12	12	19-Jul-23	01-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3658	P11-1090	Construction of Drainage Manhole M6.01	10	10	26-Jul-23	05-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3659	P11-1100	Construction of Drainage Manhole M6.02	12	12	31-Jul-23	12-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3660	P11-1110	Construction of Drainage Manhole M6.03	12	12	05-Aug-23	17-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3661	P11-1120	Construction of Drainage Manhole M6.04	12	12	10-Aug-23	23-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3662	P11-1130	Backfill to Level +6.0mPD for fresh water works	12	12	16-Aug-23	28-Aug-23	-16	0%	ND/2019/02 - 6D (with PH)
3663	**Outfall 6.04**		74	74	01-Aug-23	20-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3664	P11-OF0900	Sheet Pile Installation at Outfall	10	10	01-Aug-23	11-Aug-23	101	0%	ND/2019/02 - 6D (with PH)
3665	P11-OF1000	Excavation to 1st strut level	3	3	11-Aug-23	15-Aug-23	101	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
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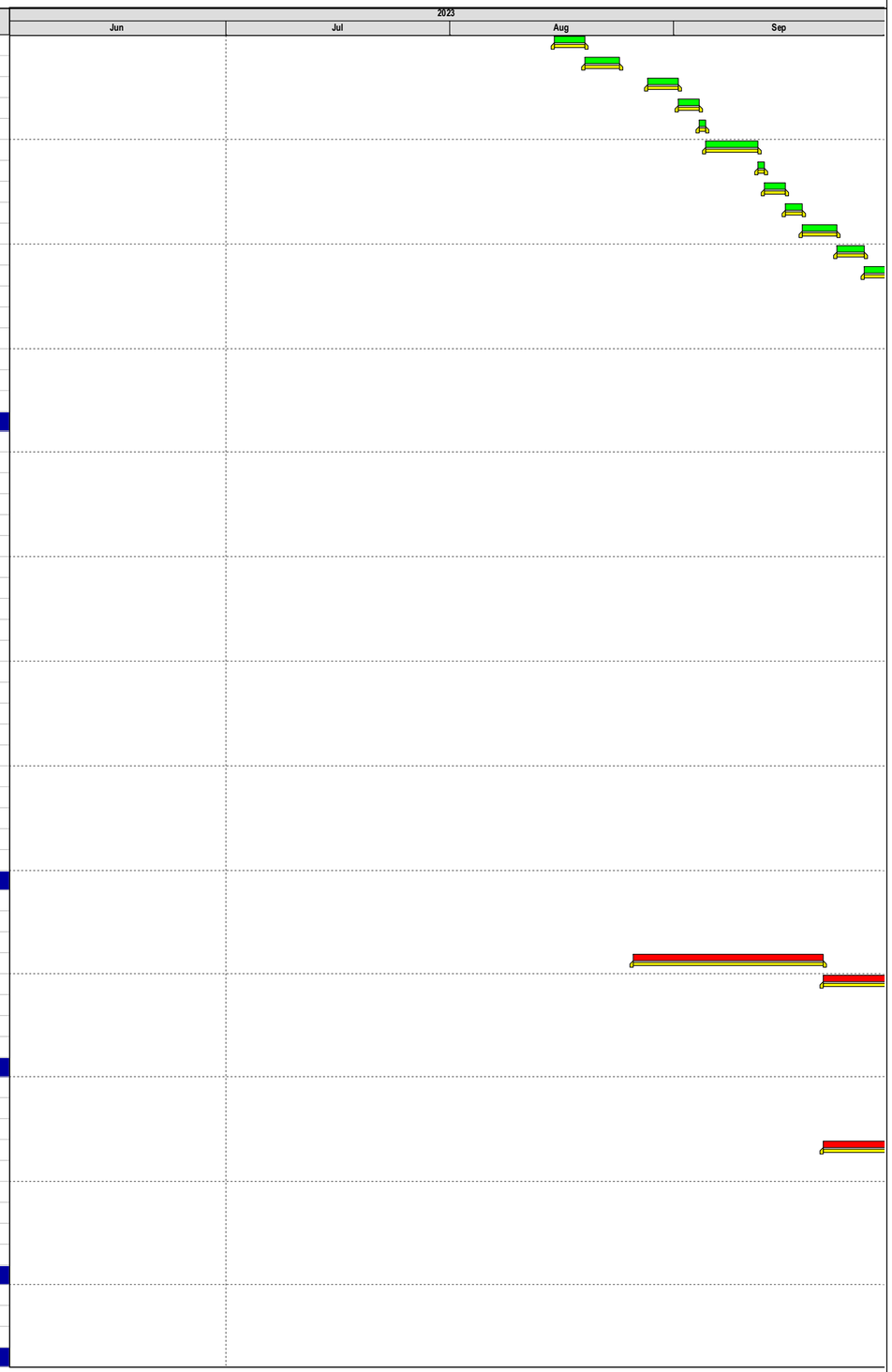
Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3666	P11-OF1010	Installation 1st level strut and testing	5	5	15-Aug-23	19-Aug-23	101	0%	ND/2019/02 - 6D (with PH)
3667	P11-OF1020	Excavation to 2nd strut level	4	4	19-Aug-23	24-Aug-23	101	0%	ND/2019/02 - 6D (with PH)
3668	P11-OF1030	Installation 2nd level strut and testing	5	5	28-Aug-23	01-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3669	P11-OF1040	Excavation to Formation Level	2	2	01-Sep-23	04-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3670	P11-OF1050	Backfilling and Blinding works to outfall	1	1	04-Sep-23	05-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3671	P11-OF1060	Allow 7 days for concrete strength development	7	7	05-Sep-23	12-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3672	P11-OF1070	Dismantle Strut	1	1	12-Sep-23	13-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3673	P11-OF1080	Outfall Baseslab (Incl concreting)	3	3	13-Sep-23	16-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3674	P11-OF1090	Dismantle Base slab Formwork	2	2	16-Sep-23	18-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3675	P11-OF1100	Outfall Wall (Incl concreting)	5	5	18-Sep-23	23-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3676	P11-OF1110	Dismantle 1st pour Wall Formwork	3	3	23-Sep-23	27-Sep-23	101	0%	ND/2019/02 - 6D (with PH)
3677	P11-OF1120	Outfall Wall 2nd pour (Incl concreting)	4	4	27-Sep-23	03-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3678	P11-OF1130	Dismantle 2nd pour Wall Formwork	3	3	03-Oct-23	06-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3679	P11-OF1140	Partillay Reintatement (Rockfill)	2	2	06-Oct-23	09-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3680	P11-OF1150	Dismantle 1st Layer of Strut	2	2	09-Oct-23	10-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3681	P11-OF1160	Remove Riverside sheet pile	2	2	11-Oct-23	12-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3682	P11-OF1170	Casting of outfall (River Side)	2	2	12-Oct-23	14-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3683	P11-OF1200	Remove remining side sheet pile & rock fill	5	5	14-Oct-23	20-Oct-23	101	0%	ND/2019/02 - 6D (with PH)
3684	**Outfall 5104**		74	74	20-Oct-23	10-Jan-24	101	0%	ND/2019/02 - 6D (with PH)
3685	P11-OF1220	Sheet Pile Installation at Outfall	10	10	20-Oct-23	01-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3686	P11-OF1230	Excavation to 1st strut level	3	3	01-Nov-23	03-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3687	P11-OF1240	Installation 1st level strut and testing	5	5	03-Nov-23	09-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3688	P11-OF1250	Excavation to 2nd strut level	4	4	09-Nov-23	13-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3689	P11-OF1260	Installation 2nd level strut and testing	5	5	16-Nov-23	22-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3690	P11-OF1270	Excavation to Formation Level	2	2	22-Nov-23	23-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3691	P11-OF1280	Backfilling and Blinding works to outfall	1	1	23-Nov-23	24-Nov-23	101	0%	ND/2019/02 - 6D (with PH)
3692	P11-OF1290	Allow 7 days for concrete strength development	7	7	24-Nov-23	02-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3693	P11-OF1300	Dismantle Strut	1	1	02-Dec-23	02-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3694	P11-OF1310	Outfall Baseslab (Incl concreting)	3	3	04-Dec-23	06-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3695	P11-OF1320	Dismantle Base slab Formwork	2	2	06-Dec-23	08-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3696	P11-OF1330	Outfall Wall (Incl concreting)	5	5	08-Dec-23	13-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3697	P11-OF1340	Dismantle 1st pour Wall Formwork	3	3	14-Dec-23	16-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3698	P11-OF1350	Outfall Wall 2nd pour (Incl concreting)	4	4	16-Dec-23	21-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3699	P11-OF1360	Dismantle 2nd pour Wall Formwork	3	3	21-Dec-23	23-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3700	P11-OF1370	Partillay Reintatement (Rockfill)	2	2	27-Dec-23	28-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3701	P11-OF1380	Dismantle 1st Layer of Strut	2	2	28-Dec-23	30-Dec-23	101	0%	ND/2019/02 - 6D (with PH)
3702	P11-OF1390	Remove Riverside sheet pile	2	2	30-Dec-23	03-Jan-24	101	0%	ND/2019/02 - 6D (with PH)
3703	P11-OF1400	Casting of outfall (River Side)	2	2	03-Jan-24	05-Jan-24	101	0%	ND/2019/02 - 6D (with PH)
3704	P11-OF1410	Remove remining side sheet pile & rock fill	5	5	05-Jan-24	10-Jan-24	101	0%	ND/2019/02 - 6D (with PH)
3705	P11-OF1420	Report Completion of Drainage works	0	0		10-Jan-24	101	0%	ND/2019/02 - 6D (with PH)
3706	**Fresh Water Pipeworks (Level: (IL +6mPD to +7.0mPD)**		333	121	03-Jan-23 A	06-Jan-24	-16	63.7%	ND/2019/02 - 6D (with PH)
3707	P11-1031	Submission and approval of Form WWO542 for application to WSD (Fresh Water Works)	30	0	03-Jan-23 A	09-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
3708	P11-1032	Submissionl of Form WWO46 Part 1,2 to WSD for application of Water works (Fresh Water Works)	14	0	10-Feb-23 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
3709	P11-1033	Reply with Form WWO46 Part 3 from WSD for application of Water works (Fresh Water Works)	7	0	27-Feb-23 A	06-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
3710	P11-1050	Fresh water pipe works (100m)	25	25	26-Aug-23	21-Sep-23	-16	0%	ND/2019/02 - 6D (with PH)
3711	P11-1160	Connection to exisiting fresh water main at both ends	15	15	21-Sep-23	10-Oct-23	-16	0%	ND/2019/02 - 6D (with PH)
3712	P11-WSD1030	Submit Form WWO046 Part 4 For WSD Inspection	1	1	10-Oct-23	10-Oct-23	-16	0%	ND/2019/02 - 6D (with PH)
3713	P11-WSD1040	WSD Inspection	7	7	18-Nov-23	25-Nov-23	-16	0%	ND/2019/02 - 6D (with PH)
3714	P11-WSD1050	Issue Water Certificate (Part 5)	1	1	06-Jan-24	06-Jan-24	-16	0%	ND/2019/02 - 6D (with PH)
3715	**Salt Water Pipeworks**		343	106	03-Jan-23 A	17-Jan-24	-16	69.13%	ND/2019/02 - 6D (with PH)
3716	P11-1065	Submission and approval of Form WWO542 for application to WSD (Salt Water Works)	30	0	03-Jan-23 A	09-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
3717	P11-1067	Submission and approval of Form WWO46 Part 1,2 to WSD for application of Water works (Salts Water Works)	14	0	10-Feb-23 A	25-Feb-23 A		100%	ND/2019/02 - 6D (with PH)
3718	P11-1069	Reply with Form WWO46 Part 3 from WSD for application of Water works (Salt Water Works)	7	0	27-Feb-23 A	06-Mar-23 A		100%	ND/2019/02 - 6D (with PH)
3719	P11-1070	Salt water pipe works (20m)	10	10	21-Sep-23	04-Oct-23	-16	0%	ND/2019/02 - 6D (with PH)
3720	P11-1170	Connection to exisiting fresh water main	5	5	04-Oct-23	10-Oct-23	-16	0%	ND/2019/02 - 6D (with PH)
3721	P11-1182	Submit Form WWO046 Part 4 For WSD Inspection	1	1	10-Oct-23	10-Oct-23	-16	0%	ND/2019/02 - 6D (with PH)
3722	P11-1184	WSD Inspection	7	7	18-Nov-23	25-Nov-23	-16	0%	ND/2019/02 - 6D (with PH)
3723	P11-1186	Issue Water Certificate (Part 5)	1	1	06-Jan-24	06-Jan-24	-16	0%	ND/2019/02 - 6D (with PH)
3724	P11-1200	Backfill to Level +7.0mPD for Surface Channel and Utilities works	10	10	08-Jan-24	17-Jan-24	-16	0%	ND/2019/02 - 6D (with PH)
3725	**Utilities Works**		40	40	18-Jan-24	02-Mar-24	94	0%	ND/2019/02 - 6D (with PH)
3726	P11-1180	Twins 11KV Cables Connection	15	15	18-Jan-24	02-Feb-24	94	0%	ND/2019/02 - 6D (with PH)
3727	P11-1190	Surface U Channel Construction (4 nos.)	30	30	18-Jan-24	21-Feb-24	94	0%	ND/2019/02 - 6D (with PH)
3728	P11-1250	Backfill to Level Final Formation Level	10	10	22-Feb-24	02-Mar-24	94	0%	ND/2019/02 - 6D (with PH)
3729	**Road A6 Works (Total 100m @ 10m/Bay)**		150	150	18-Jan-24	05-Jul-24	-16	0%	ND/2019/02 - 6D (with PH)



Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Baseline Milestone
Critical Milestone
Non-Critical Milestone

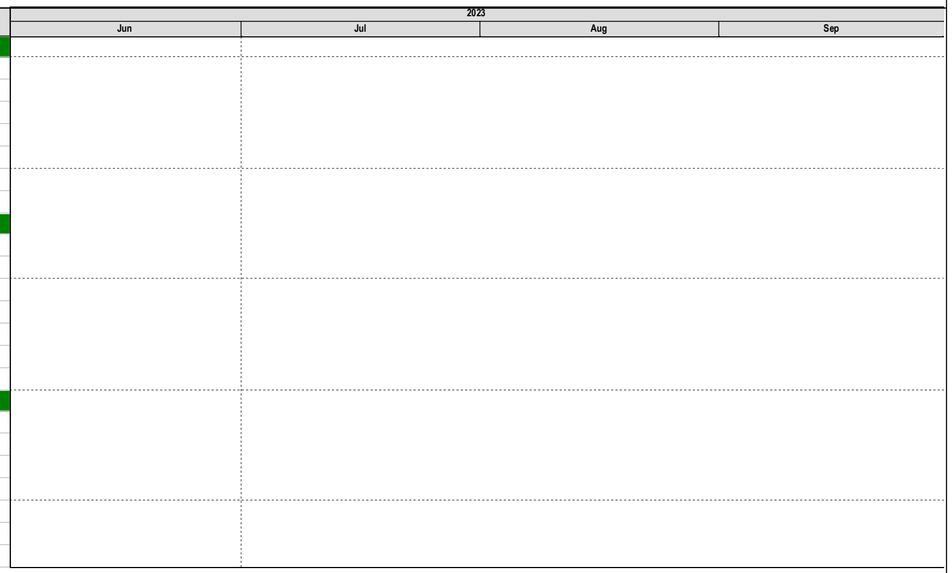
Data Date: 30-Apr-23
Project Start: 03-Feb-20
Project End: 05-Jan-27
Page : 58 of 59

Programme Forecast (Jun-Jul-Aug-Sep 2023)

Date	Revision	Checked	Approved
18-Jul-23	00	RP	EW

TASK filter: All Activities
Kwu Tung North - Monthly Update Program

#	Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	Duration % Complete	Calendar
3730	**1st Cycle (4 Bays)**		50	50	18-Jan-24	13-Mar-24	-16	0%	ND/2019/02 - 6D (with PH)
3731	P11-1060	Formation of Sub-Grade	7	7	18-Jan-24	25-Jan-24	-16	0%	ND/2019/02 - 6D (with PH)
3732	P11-1210	Laying of Sub-Base	6	6	25-Jan-24	31-Jan-24	-16	0%	ND/2019/02 - 6D (with PH)
3733	P11-1220	Laying of Road-Base	6	6	31-Jan-24	07-Feb-24	-16	0%	ND/2019/02 - 6D (with PH)
3734	P11-1230	Laying of Base Course	5	5	07-Feb-24	15-Feb-24	-16	0%	ND/2019/02 - 6D (with PH)
3735	P11-1240	Laying of Wearing Course	5	5	15-Feb-24	21-Feb-24	-16	0%	ND/2019/02 - 6D (with PH)
3736	P11-1260	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	15	15	21-Feb-24	07-Mar-24	-16	0%	ND/2019/02 - 6D (with PH)
3737	P11-1270	Road Furniture, Guard Rail, Road Lighting and Road Marking	6	6	07-Mar-24	13-Mar-24	-16	0%	ND/2019/02 - 6D (with PH)
3738	**2nd Cycle (4 Bays)**		50	50	14-Mar-24	10-May-24	-16	0%	ND/2019/02 - 6D (with PH)
3739	P11-1280	Formation of Sub-Grade	7	7	14-Mar-24	21-Mar-24	-16	0%	ND/2019/02 - 6D (with PH)
3740	P11-1290	Laying of Sub-Base	6	6	21-Mar-24	27-Mar-24	-16	0%	ND/2019/02 - 6D (with PH)
3741	P11-1300	Laying of Road-Base	6	6	27-Mar-24	08-Apr-24	-16	0%	ND/2019/02 - 6D (with PH)
3742	P11-1310	Laying of Base Course	5	5	08-Apr-24	12-Apr-24	-16	0%	ND/2019/02 - 6D (with PH)
3743	P11-1320	Laying of Wearing Course	5	5	12-Apr-24	18-Apr-24	-16	0%	ND/2019/02 - 6D (with PH)
3744	P11-1330	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	15	15	18-Apr-24	04-May-24	-16	0%	ND/2019/02 - 6D (with PH)
3745	P11-1340	Road Furniture, Guard Rail, Road Lighting and Road Marking	6	6	04-May-24	10-May-24	-16	0%	ND/2019/02 - 6D (with PH)
3746	**3rd Cycle (3 Bays)**		50	50	11-May-24	05-Jul-24	-16	0%	ND/2019/02 - 6D (with PH)
3747	P11-1350	Formation of Sub-Grade	7	7	11-May-24	20-May-24	-16	0%	ND/2019/02 - 6D (with PH)
3748	P11-1360	Laying of Sub-Base	6	6	20-May-24	25-May-24	-16	0%	ND/2019/02 - 6D (with PH)
3749	P11-1370	Laying of Road-Base	6	6	25-May-24	01-Jun-24	-16	0%	ND/2019/02 - 6D (with PH)
3750	P11-1380	Laying of Base Course	5	5	01-Jun-24	06-Jun-24	-16	0%	ND/2019/02 - 6D (with PH)
3751	P11-1390	Laying of Wearing Course	5	5	06-Jun-24	13-Jun-24	-16	0%	ND/2019/02 - 6D (with PH)
3752	P11-1400	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	15	15	13-Jun-24	28-Jun-24	-16	0%	ND/2019/02 - 6D (with PH)
3753	P11-1410	Road Furniture, Guard Rail, Road Lighting and Road Marking	6	6	28-Jun-24	05-Jul-24	-16	0%	ND/2019/02 - 6D (with PH)



Construction Programme of ND/2019/03

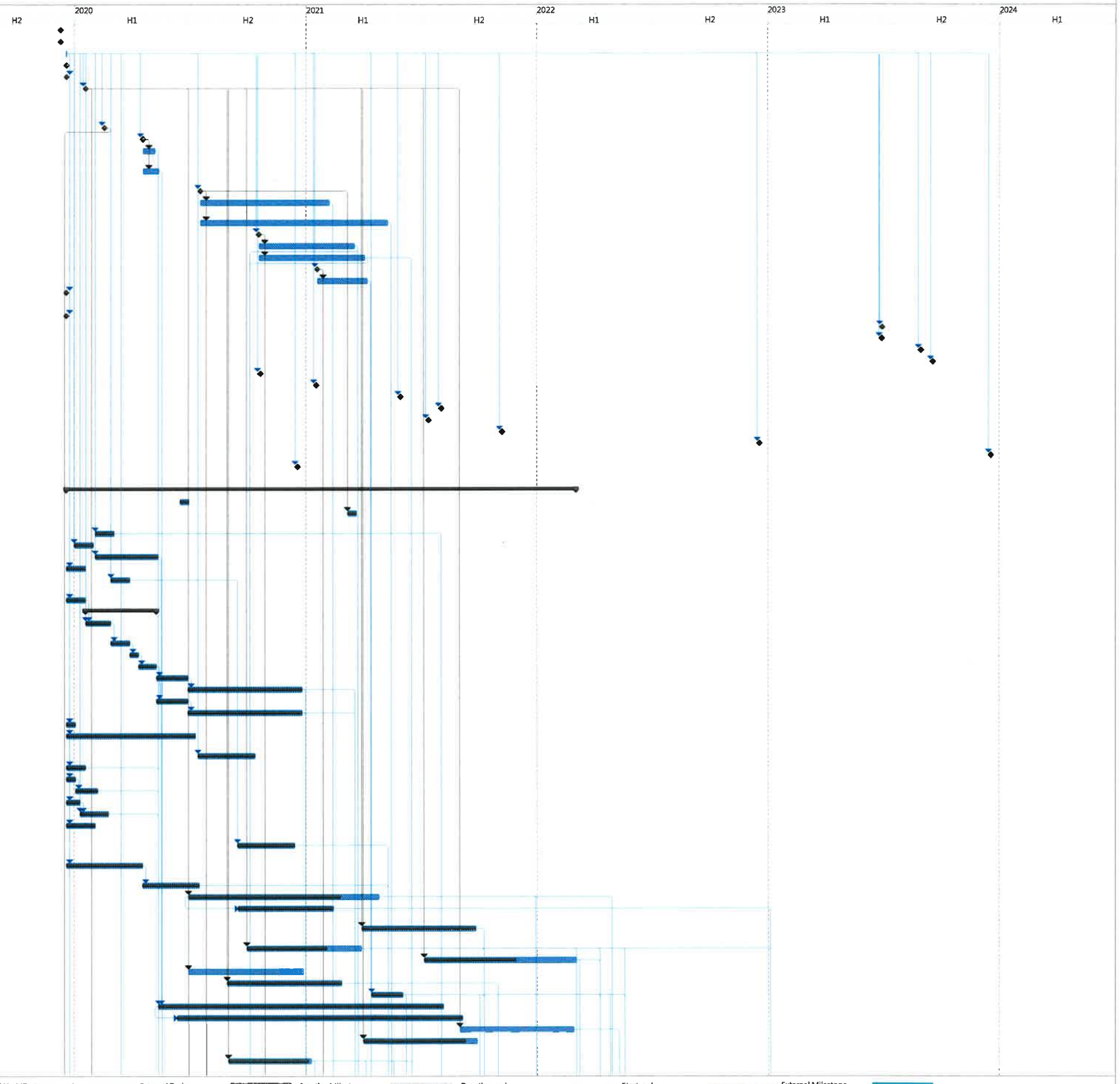
Contract No. ND/2019/03

Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park

Project Programme of the Works

Sang Hing - Kuly Joint Venture

ID	Task Name	Duration	Start	Predecessors	Finish
1	**Contract Key Dates**	0 days	Tue 10/12/19		Tue 10/12/19
2	**1.1 Contract Date**	**0 days**	**Tue 10/12/19**		**Tue 10/12/19**
3	**1.2 Starting Date**	**1 day**	**Thu 19/12/19**		**Thu 19/12/19**
4	**1.3 Site Access Dates**	0 days	Thu 19/12/19		Thu 19/12/19
5	Portions 25, 26, 27	0 days	Thu 19/12/19	3	Thu 19/12/19
6	Portions 1, 5, 6A, 7, 8A, 9A, 9C, 9E, 9F, 9G, 10A, 10B, 11A, 11B, 12A, 12C, 12D, 13A, 15B, 15C, 16, 17, 19A, 19B, 19C, 20A, 20B	0 days	Sat 18/1/20	3FS+30 days	Sat 18/1/20
7	Portions 23, 24	0 days	Mon 17/2/20	3FS+60 days	Mon 17/2/20
8	Portions 15A, 18, 19, 20, 20C, 22	0 days	Sat 18/4/20	3FS+121 days	Sat 18/4/20
9	Delay of Site Access Dates: Portion 15A, 18, 19, 20 (Structure has not been handed over)	19 days	Sun 19/4/20	8	Thu 7/5/20
10	Delay of Site Access Dates: Portion 22 (Structure has not been handed over)	25 days	Sun 19/4/20	8	Wed 13/5/20
11	Portions 1A, 2, 2A, 3, 4, 4A, 4B, 5A, 6, 8, 7A, 7B	0 days	Sat 18/7/20	3FS+212 days	Sat 18/7/20
12	Delay of Site Access for Area with Structure & Tudigong in Portion 1A	203 days	Sun 19/7/20	11	Sat 6/2/21
13	Delay of Site Access Dates: 4B,5A	296 days	Sun 19/7/20	11	Mon 10/5/21
14	Portions 8B, 9, 9B, 9D, 10, 11, 12, 12B, 13, 14	0 days	Sun 18/10/20	3FS+304 days	Sun 18/10/20
15	Delay of Site Access Date: Portion 9D	151 days	Mon 19/10/20	14	Thu 18/3/21
16	Delay of Site Access for Area with Structure in Portion 8B, 9B	167 days	Mon 19/10/20	14	Sat 3/4/21
17	Portions 15, 16A, 16B, 17A, 17B, 21	0 days	Mon 18/1/21	3FS+396 days	Mon 18/1/21
18	Delay of Site Access for Area with Structure in Portion 16B	79 days	Tue 19/1/21	17	Wed 7/4/21
19	Works Area WA1	0 days	Thu 19/12/19	3	Thu 19/12/19
20					
21	**1.4 Completion of the works**	**0 days**	**Thu 19/12/19**	**3**	**Thu 19/12/19**
22	Section 1	0 days	Fri 30/6/23	3FS+851 days	Fri 30/6/23
23	Section 2	0 days	Fri 30/6/23	3FS+1034 days	Fri 30/6/23
24	Section 3	0 days	Wed 30/8/23	3FS+1003 days	Wed 30/8/23
25	Section 3A	0 days	Sun 17/9/23	3FS+1368 days	Sun 17/9/23
26	Section 4	0 days	Wed 21/10/20	3FS+273 days	Wed 21/10/20
27	Section 5	0 days	Sat 16/1/21	3FS+394 days	Sat 16/1/21
28	Section 6	0 days	Sun 30/5/21	3FS+528 days	Sun 30/5/21
29	Section 7	0 days	Mon 2/8/21	3FS+592 days	Mon 2/8/21
30	Section 8	0 days	Tue 13/7/21	3FS+572 days	Tue 13/7/21
31	Section 9	0 days	Sat 6/11/21	3FS+688 days	Sat 6/11/21
32	Section 11	0 days	Sun 18/12/22	3FS+1095 days	Sun 18/12/22
33	Section 11A	0 days	Mon 18/12/23	3FS+1460 days	Mon 18/12/23
34	Section 12	0 days	Fri 18/12/20	3FS+365 days	Fri 18/12/20
35					
36	**2. Preliminary works**	**805 days**	**Fri 20/12/19**		**Thu 3/3/22**
37	Set up Project Manager's Accommodation in WA1 (1st part)	14 days	Wed 17/6/20		Tue 30/6/20
38	Set up Project Manager's Accommodation in Portion 3 (2nd part)	14 days	Mon 8/3/21	11	Sun 21/3/21
39	Prepare, submit & Approve ICE	30 days	Mon 3/2/20	3	Tue 3/3/20
40	Prepare, submit & Approve Traffic Consultant	30 days	Wed 1/1/20	3	Thu 30/1/20
41	Prepare, submit & Approve Landscape Team Leader	100 days	Mon 3/2/20	3	Tue 12/5/20
42	Prepare, submit & Approve Agricultural Specialist	30 days	Fri 20/12/19	3	Sat 18/1/20
43	Prepare, submit & Approve Constructed / Treatment Wetland Specialist	30 days	Fri 28/2/20	3	Sat 28/3/20
44	Prepare, submit & Approve Ecological Team Leader	30 days	Fri 20/12/19	3	Sat 18/1/20
45	**Habitat Survey**	**112 days**	**Sun 19/1/20**		**Sat 9/5/20**
46	Submission/approval of Habitat Surveys Method Statement and Programme	40 days	Sun 19/1/20	3,44	Thu 27/2/20
47	Habitat Surveys	30 days	Fri 28/2/20	46	Sat 28/3/20
48	Submission of Habitat Record	14 days	Sun 29/3/20	47	Sat 11/4/20
49	Approval of Habitat Survey Record	28 days	Sun 12/4/20	48	Sat 9/5/20
50	Prepare and Submit Wetland Restoration Proposal	50 days	Sun 10/5/20	49	Sun 28/6/20
51	Approval of Wetland Restoration Proposal	180 days	Mon 29/6/20	50	Fri 25/12/20
52	Prepare and Submit Wetland Creation Proposal	50 days	Sun 10/5/20	49	Sun 28/6/20
53	Approval of Wetland Cretation Proposal	180 days	Mon 29/6/20	52	Fri 25/12/20
54	Prepare and Submit Ecological Protection Plan	14 days	Fri 20/12/19	3	Thu 2/1/20
55	Prepare, Submit and Approval of Maintenance Proposal for Stage 1 Maintenance Works	204 days	Fri 20/12/19	3	Fri 10/7/20
56	Prepare, submit & Approve G.I. Contractor	90 days	Wed 15/7/20	3	Mon 12/10/20
57	Prepare and submit Smart Card Sysytem	30 days	Fri 20/12/19	3	Sat 18/1/20
58	Prepare, submit Draft Safety Plan	14 days	Fri 20/12/19	3	Thu 2/1/20
59	Review & Approve Safety Plan	35 days	Fri 3/1/20	58	Thu 6/2/20
60	Prepare, Submit Draft Environmental Management Plan	21 days	Fri 20/12/19	3	Thu 9/1/20
61	Review & Approve Environmental Management Plan	45 days	Fri 10/1/20	3,60	Sun 23/2/20
62	Prepare, submit & Approve Site Management Plan for Trip Ticket System	45 days	Fri 20/12/19	3	Sun 2/2/20
63	Submission and Approval of Construction Method for water treatment wetland	90 days	Tue 15/9/20	43	Sun 13/12/20
64	Submission of Proposal for Source of Water for Water Treatment Wetland	120 days	Fri 20/12/19	3	Fri 17/4/20
65	Approval of Source of Water for Water Treatment Wetland	90 days	Sat 18/4/20	64	Thu 16/7/20
66	Design/submission/approval of Lodging Facilities	300 days	Tue 30/6/20	6	Sun 25/4/21
67	Design / Submission / approval of Sewerage System of Lodging Facilities	150 days	Wed 16/9/20	66SS	Fri 12/2/21
68	Design/submission/approval of alluminium roofing system, timber for wall/floor/soffit for Birdhide	180 days	Tue 30/3/21	6	Sat 25/9/21
69	Design/submission/approval of E&M works for Facilities	180 days	Wed 30/9/20	6	Sun 28/3/21
70	Design/submission/approval of Plumbing works for Facilities	240 days	Wed 7/7/21	6	Thu 3/3/22
71	Design/submission/approval and supply of Lighting	180 days	Tue 30/6/20	6	Sat 26/12/20
72	Design/submission/approval and supply of park facilities	180 days	Sun 30/8/20	6	Thu 25/2/21
73	Submission and Approval for Fire Extinguisher	50 days	Wed 14/4/21	3	Wed 2/6/21
74	Tree survey and submission	450 days	Wed 13/5/20	41,59,61,57	Thu 5/8/21
75	Tree felling / Site clearance	450 days	Fri 12/6/20	74SS+30 days	Sat 4/9/21
76	Design/submission/approval of Entrance gantry signages	180 days	Wed 1/9/21	6FS+30 days	Sun 27/2/22
77	Design/submission/approval of Irrigation system for landscape softworks	180 days	Thu 1/4/21	6	Mon 27/9/21
78	Design/submission/approval of Irrigation Channel and other associated facilities	130 days	Tue 1/9/20	6	Fri 8/1/21



Revised Programme: Sep 2022

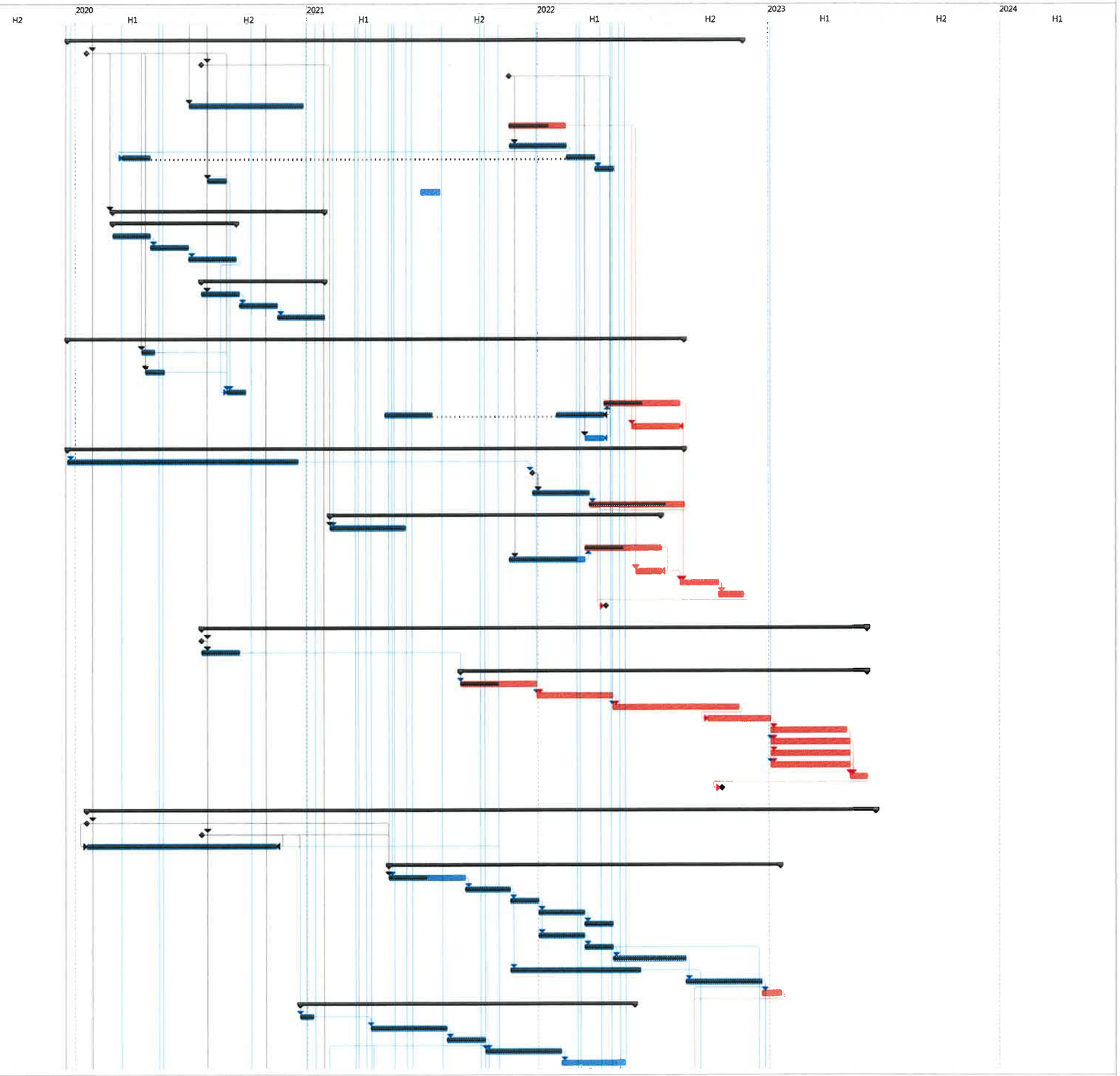
Data Date : 2022-9-3

Task | Summary | Rolled Up Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | External Milestone

Critical Task | Rolled Up Task | Rolled Up Progress | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Progress

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

ID	Task Name	Duration	Start	Predecessors	Finish
79					
80	**3. Section 1 of the works (Portions 1 and 1A)**	**1068 days**	**Fri 20/12/19**		**Mon 21/11/22**
81	Site Access in Portion 1	0 days	Sat 18/1/20	6	Sat 18/1/20
82	Site Access in Portion 1A	0 days	Sat 18/7/20	11	Sat 18/7/20
83	Compensation Event No. 39 (PMI-038)- Widening of Yin Kong Road and Revising Associated Facilities	0 days	Wed 17/11/21		Wed 17/11/21
84	Design/submission/approval and supply of Road Lighting System along Yin Kong Road	180 days	Tue 30/6/20	6FS+30 days	Sat 26/12/20
85	Design/submission/approval and supply of Road Lighting System along Yin Kong Road (PMI 038, CE039)	90 days	Wed 17/11/21		Mon 14/2/22
86	Application for XP for constructionof Yin Kong Road	90 days	Thu 18/11/21	83	Tue 15/2/22
87	Prepare TTA for TMLG and approval from TD and RMO	90 days	Mon 16/3/20	86	Fri 1/4/22
88	Application of Traffic Advice and Road Work Advice	30 days	Sat 2/4/22	87	Sun 1/5/22
89	Submission of Utilities Detection Report	30 days	Wed 29/7/20	81	Thu 27/8/20
90	Additional Widening works for Yin Kong Road (to be approved by Relevant Department)	30 days	Thu 1/7/21		Fri 30/7/21
91	**Relocation of Utilities (by Others)**	**335 days**	**Sun 1/3/20**	**81FS+30 days**	**Fri 29/1/21**
92	**Relocation of CLP Pole at Yin Kong Road in (Portion 1)**	**195 days**	**Sun 1/3/20**		**Fri 11/9/20**
93	Planning for Relocation	60 days	Sun 1/3/20		Wed 29/4/20
94	Construction of New Pole	60 days	Thu 30/4/20	93	Sun 28/6/20
95	Outage and Diversion of Underground Cable	75 days	Mon 29/6/20	94	Fri 11/9/20
96					
97	**Relocation of CLP Pole at Yin Kong Road (Portion 1A)**	**195 days**	**Sun 19/7/20**		**Fri 29/1/21**
98	Planning for Relocation	60 days	Sun 19/7/20	82	Wed 16/9/20
99	Construction of New Pole	60 days	Thu 17/9/20	98	Sun 15/11/20
100	Outage and Diversion of Underground Cable	75 days	Mon 16/11/20	99	Fri 29/1/21
101					
102	**Site Works (under Portion 1)**	**975 days**	**Fri 20/12/19**		**Sat 20/8/22**
103	Compensation Event No. 002 - Construction of Chain Link Fence and Gate adjacent to Yin Kong Road	21 days	Thu 16/4/20	81	Wed 6/5/20
104	Compensation Event No. 003 - Reprovision of Hoarding and gate at Enchi Lodge	30 days	Wed 22/4/20	81	Thu 21/5/20
105	Remove existing fencing and site clearance	30 days	Fri 28/8/20	81,89,95,103,104	Sat 26/9/20
106	Road widening	120 days	Sat 16/4/22	107,109	Sat 13/8/22
107	Drainage works	150 days	Wed 5/5/21	83FF+150 days	Fri 15/4/22
108	Lighting and installation of street fruniture	76 days	Mon 30/5/22	85,106FF	Sat 13/8/22
109	Additional Dwarf Wall	30 days	Thu 17/3/22	83,107FF	Fri 15/4/22
110	**Construction of Pai Lau**	**975 days**	**Fri 20/12/19**		**Sat 20/8/22**
111	Instruction from PM	365 days	Fri 20/12/19	3	Fri 18/12/20
112	Compensation Event No. 36 (PMI-036)- Design and Construction of Yin Kong Village Pai Lau	0 days	Fri 24/12/21	111	Fri 24/12/21
113	Design/Submission/approval	90 days	Fri 24/12/21	112	Wed 23/3/22
114	Construction of Pai Lau	150 days	Thu 24/3/22	113	Sat 20/8/22
115	**Site Works (under Portion 1A)**	**523 days**	**Sun 7/2/21**		**Thu 14/7/22**
116	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	120 days	Sun 7/2/21	82,12	Sun 6/6/21
117	Road Widening	120 days	Thu 17/3/22	118	Thu 14/7/22
118	Drainage works	120 days	Wed 17/11/21	83	Wed 16/3/22
119	Lighting and installation of street fruniture	40 days	Sun 5/6/22	85,117FF	Thu 14/7/22
120	Paving block on footway	60 days	Sun 14/8/22	108,119	Wed 12/10/22
121	bituminous pavement on carriageway	40 days	Thu 13/10/22	120	Mon 21/11/22
122	**Completion of Section 1 of the works**	**0 days**	**Mon 18/4/22**	**121,114**	**Mon 18/4/22**
123					
124	**4. Section 2 of the works (Portions 2 and 2A)**	**1051 days**	**Sat 18/7/20**		**Sun 4/6/23**
125	Site Access in Portions 2 and 2A	0 days	Sat 18/7/20	11	Sat 18/7/20
126	General site clearance / demolition work / Removal of Asbesto Containing Material	60 days	Sun 19/7/20	125	Wed 16/9/20
127	**Construction of lodging facility & associated facilities**	**642 days**	**Wed 1/9/21**		**Sun 4/6/23**
128	Excavation and formation preparation	120 days	Wed 1/9/21	126	Wed 29/12/21
129	Construction of foundation / pavement	120 days	Thu 30/12/21	128,66	Thu 28/4/22
130	Supply of logging units	200 days	Fri 29/4/22	129,66	Mon 14/11/22
131	Installation of lodging units	100 days	Mon 26/9/22	130FS-50 days	Tue 3/1/23
132	Installation of furniture / facility	120 days	Wed 4/1/23	131	Wed 3/5/23
133	Installation of E&M works	125 days	Wed 4/1/23	69,67,131	Mon 8/5/23
134	Installation of Fire Services	125 days	Wed 4/1/23	131	Mon 8/5/23
135	Installation of plumbing works	125 days	Wed 4/1/23	69,131	Mon 8/5/23
136	Testing and commissioning	27 days	Tue 9/5/23	135,133,134,132	Sun 4/6/23
137	**Completion of Section 2 of the works**	**0 days**	**Tue 18/10/22**	**136**	**Tue 18/10/22**
138					
139	**5. Section 3 of the works (Portions 3, 4, 4A, 4B, 5, 5A, 6 & 6A)**	**1246 days**	**Sat 18/1/20**		**Sat 17/6/23**
140	Site Access in Portions 5 and 6A	0 days	Sat 18/1/20	6	Sat 18/1/20
141	Site Access in Portions 3, 4, 4A, 4B, 5A and 6	0 days	Sat 18/7/20	11	Sat 18/7/20
142	General site clearance / demolition work / Removal of Asbesto Containing Material	300 days	Sun 19/1/20	140SS,141FF+20 days	Fri 13/11/20
143	**Construction of water treatment wetland**	**618 days**	**Tue 11/5/21**		**Wed 18/1/23**
144	Excavation for sedimentation pond	120 days	Tue 11/5/21	63,140,141,65,13	Tue 7/9/21
145	Excavation for macophyte zones - down stream	71 days	Wed 8/9/21	144	Wed 17/11/21
146	Bedding preparation	45 days	Thu 18/11/21	145	Sat 1/1/22
147	Excavation for macophyte zones - mid stream	72 days	Sun 2/1/22	146	Mon 14/3/22
148	Bedding preparation	45 days	Tue 15/3/22	147	Thu 28/4/22
149	Excavation for macophyte zones - upstream	72 days	Sun 2/1/22	146	Mon 14/3/22
150	Bedding preparation	45 days	Tue 15/3/22	149	Thu 28/4/22
151	Excavation for open water zone	115 days	Fri 29/4/22	150	Sun 21/8/22
152	Construction of wetland broadwalk	205 days	Thu 18/11/21	145	Fri 10/6/22
153	Construction of Inlet and outlet structures	120 days	Mon 22/8/22	151	Mon 19/12/22
154	Reed Planting	30 days	Tue 20/12/22	153	Wed 18/1/23
155	**Construction of birdhide**	**528 days**	**Mon 21/12/20**		**Wed 1/6/22**
156	Excavation and formation preparation	21 days	Mon 21/12/20	141,142	Sun 10/1/21
157	Construction of base slab	120 days	Mon 12/4/21	156	Mon 9/8/21
158	Installation of steel structural frame	60 days	Tue 10/8/21	157	Fri 8/10/21
159	Installation of timber wall / roof	120 days	Sat 9/10/21	158,68	Sat 5/2/22
160	Installation of timber rised flooring	100 days	Sun 6/2/22	159	Mon 16/5/22



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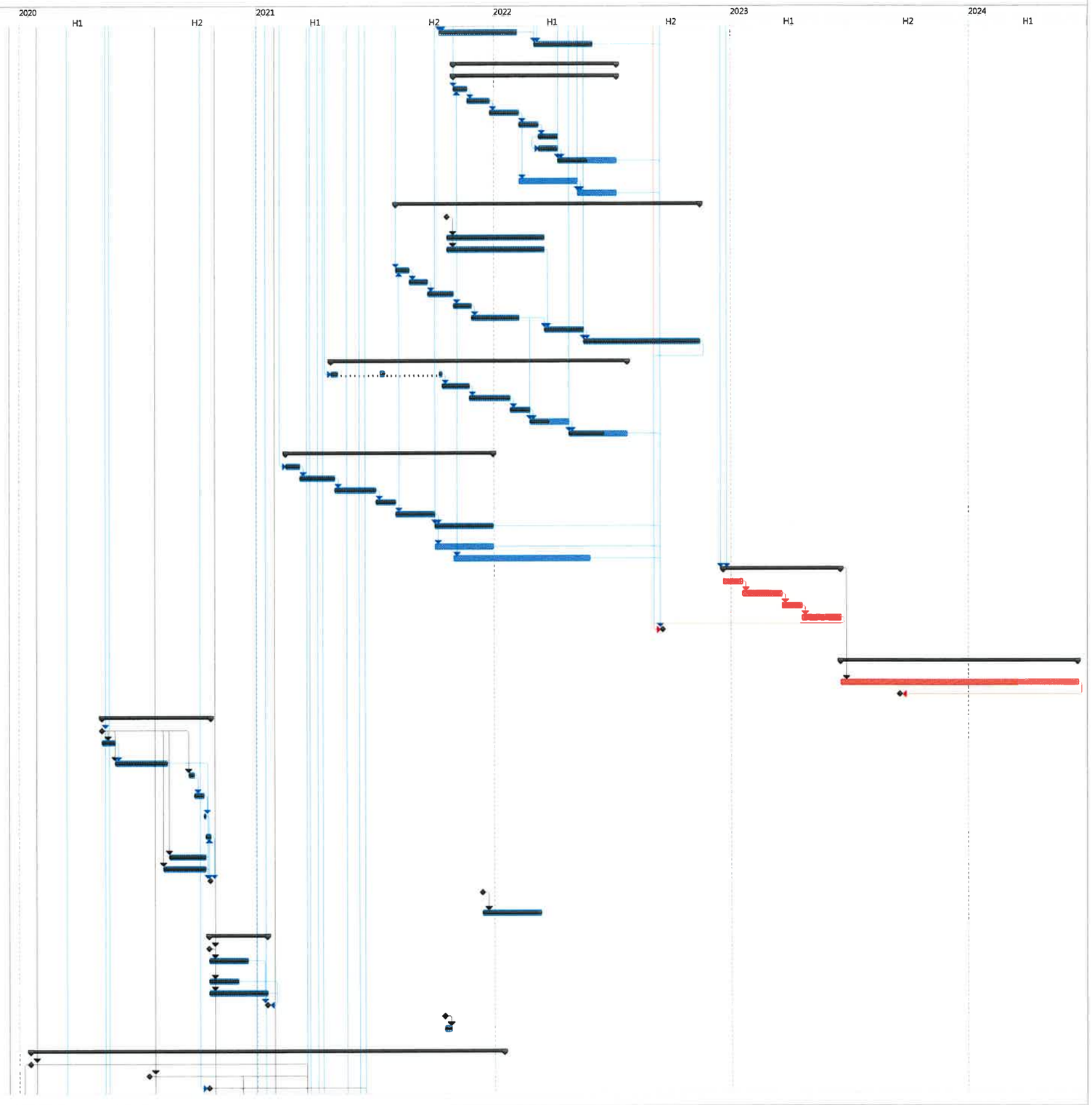
Task | Summary | Rolled Up Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | External Milestone
Critical Task | Rolled Up Task | Rolled Up Progress | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Milestone | Rolled Up Critical Task | Split | Group By Summary | Manual Task | Manual Summary | External Tasks | Deadline

ID	Task Name	Duration	Start	Predecessors	Finish
161	Installation of E&M, Fire Services System	120 days	Sat 9/10/21	158,69,73	Sat 5/2/22
162	Testing & commissioning	90 days	Fri 4/3/22	69,70,161	Wed 1/6/22
163	**Construction of farmer's forum / open area**	**251 days**	**Sun 31/10/21**		**Fri 8/7/22**
164	**Construction of tea house pavilion**	**251 days**	**Sun 31/10/21**		**Fri 8/7/22**
165	Construction of base slab	21 days	Sun 31/10/21	142,180,72	Sat 20/11/21
166	Construction of walls with columns	35 days	Sun 21/11/21	165	Sat 25/12/21
167	Installation of roof steel structure	45 days	Sun 26/12/21	166	Tue 8/2/22
168	Installation of recycled timber strip for roof	30 days	Wed 9/2/22	167	Thu 10/3/22
169	Installation of recycled timber strip for walls	30 days	Fri 11/3/22	168	Sat 9/4/22
170	Supply and installation of bench	30 days	Fri 11/3/22	169SS	Sat 9/4/22
171	Installation of plumbing works / E&M works with testing & commissioning	90 days	Sun 10/4/22	170,69,70,73	Fri 8/7/22
172	Construction of paving slab for open area	90 days	Wed 9/2/22	167	Mon 9/5/22
173	Construction of entrance gantry signages	60 days	Tue 10/5/22	172,76	Fri 8/7/22
174	**Construction of Type 1 storage house**	**469 days**	**Tue 3/8/21**		**Mon 14/11/22**
175	Compensation Event No. 58 (PMI-059)-Type 1 Storage House Revision	0 days	Thu 21/10/21		Thu 21/10/21
176	Design of Fire Services (CE No. 058)	150 days	Thu 21/10/21	175	Sat 19/3/22
177	Design of Plumbing Works (CE No. 058) & Approval by WSD	150 days	Thu 21/10/21	175	Sat 19/3/22
178	Excavation and formation preparation	21 days	Tue 3/8/21	39,196	Mon 23/8/21
179	Construction of base slab	28 days	Tue 24/8/21	178	Mon 20/9/21
180	Construction of walls and roof	40 days	Tue 21/9/21	179	Sat 30/10/21
181	Installation of aluminium louvre / GMS door	28 days	Sun 31/10/21	180	Sat 27/11/21
182	Installation of recycled timber strip / external finishing	73 days	Sun 28/11/21	181	Tue 8/2/22
183	Installation of Plumbing Works (CE No. 058)	60 days	Sun 20/3/22	182,177	Wed 18/5/22
184	Installation of E&M works & Fire Services with testing & commissioning	180 days	Thu 19/5/22	69,73,183	Mon 14/11/22
185	**Construction of outdoor classroom shelter**	**455.2 days**	**Mon 26/4/21**		**Mon 25/7/22**
186	Excavation and formation preparation	21 days	Mon 26/4/21	158	Wed 13/10/21
187	Construction of base slab	42 days	Wed 13/10/21	186	Wed 24/11/21
188	Construction of concrete columns	63 days	Wed 24/11/21	187	Wed 26/1/22
189	Installation of steel roof frame with corrugated sheet	30 days	Wed 26/1/22	188	Fri 25/2/22
190	Installation of recycled timber strip roofing	60 days	Fri 25/2/22	189,182	Tue 26/4/22
191	Installation of E&M works and Fire Services with testing & comissioning	90 days	Tue 26/4/22	190,73	Mon 25/7/22
192	**Construction of storage compositing facility**	**319 days**	**Mon 15/2/21**		**Thu 30/12/21**
193	Excavation and formation preparation	22 days	Mon 15/2/21	158	Mon 8/3/21
194	Construction of base slab	54 days	Tue 9/3/21	193	Sat 1/5/21
195	Construction of concrete columns	63 days	Sun 2/5/21	194	Sat 3/7/21
196	Installation of steel roof frame with corrugated sheet	30 days	Sun 4/7/21	195	Mon 2/8/21
197	Installation of recycled timber strip roofing	60 days	Tue 3/8/21	196	Fri 1/10/21
198	Installation of E&M works & Fire Services with testing & commissioning	90 days	Sat 2/10/21	197,73	Thu 30/12/21
199	**Construction of entry landing with drop bar**	**90 days**	**Sat 2/10/21**	**197**	**Thu 30/12/21**
200	**Construction of walkway**	**210 days**	**Sun 31/10/21**	**180**	**Sat 28/5/22**
201	**Landscaping softworks**	**180 days**	**Tue 20/12/22**	**150,153**	**Sat 17/6/23**
202	Weeding	30 days	Tue 20/12/22		Wed 18/1/23
203	Soil Backfiling	60 days	Thu 19/1/23	202	Sun 19/3/23
204	Mutching provision	30 days	Mon 20/3/23	203	Tue 18/4/23
205	Planting	60 days	Wed 19/4/23	204	Sat 17/6/23
206	**Completion of Section 3 of the works**	**0 days**	**Sat 17/9/22**	**152,153,162,171,**	**Sat 17/9/22**
207					
208	**6. Section 3A of the works (Establishment works for Section 2 and 3)**	**365 days**	**Sun 18/6/23**		**Sun 16/6/24**
209	Establishment works for landscape softworks	365 days	Sun 18/6/23	201	Sun 16/6/24
210	**Completion of Section 3A of the Works**	**0 days**	**Sun 17/9/23**	**209FF**	**Sun 17/9/23**
211					
212	**7. Section 4 of the works (Portion 18)**	**167 days**	**Thu 7/5/20**		**Wed 21/10/20**
213	Site Access in Portion 18	0 days	Thu 7/5/20	9	Thu 7/5/20
214	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	20 days	Fri 8/5/20	213	Wed 27/5/20
215	General maintenance to exisitng wetland	80 days	Thu 28/5/20	213,214	Sat 15/8/20
216	Compensation Event No. 020 - Inclement Weather Conditions in August 2020	8.5 days	Fri 18/9/20	213	Sat 26/9/20
217	Compensation Event No. 021 - Inclement Weather Conditions in September 2020	14.5 days	Sat 26/9/20	216	Sat 10/10/20
218	Compensation Event No. 028 - Inclement Weather Conditions in October 2020	3 days	Sun 11/10/20	217	Tue 13/10/20
219	Compensation Event No. 026 - Provision of Root Barriers behind Gabion Walls of Irrigation Channel	8 days	Wed 14/10/20	220	Wed 21/10/20
220	Construction of Irrigation Channel	56 days	Wed 19/8/20	213	Tue 13/10/20
221	Construction of Metal Wire Railing	65 days	Mon 10/8/20	213	Tue 13/10/20
222	**Completion of Section 4 of the works**	**0 days**	**Wed 21/10/20**	**215,221,218,219**	**Wed 21/10/20**
223	Compensation Event No. 69 (PMI-055)- Additional Stairway at Portion 18	0 days	Tue 14/12/21		Tue 14/12/21
224	Additional Stariway at Portion 18	90 days	Tue 14/12/21	223	Sun 13/3/22
225					
226	**8. Section 5 of the works (Portion 14)**	**90 days**	**Sun 18/10/20**		**Sat 16/1/21**
227	Site Access in Portion 14	0 days	Sun 18/10/20	14	Sun 18/10/20
228	General site clearance / demolition work / Removal of Asbesto Containing Material	60 days	Mon 19/10/20	227	Thu 17/12/20
229	General maintenance to exisiting wetland	45 days	Mon 19/10/20	227	Wed 2/12/20
230	Boundary Structure - Metal Wire Railing	90 days	Mon 19/10/20	227	Sat 16/1/21
231	**Completion of Section 5 of the works**	**0 days**	**Sat 16/1/21**	**230FF,229FF,228**	**Sat 16/1/21**
232	Compensation Event No. 32 (PMI-032) - Soil Replacement Works in P	0 days	Sat 16/10/21		Sat 16/10/21
233	Soil Replacement Works	10 days	Sat 16/10/21	232	Mon 25/10/21
234					
235	**9. Section 6 of the works (Portions 8,8A,8B and 9,9A~9G)**	**728 days**	**Sat 18/1/20**		**Sat 15/1/22**
236	Site Access in Portions 8A, 9A, 9C, 9E, 9F, 9G	0 days	Sat 18/1/20	6	Sat 18/1/20
237	Site Access in Portion 8	0 days	Sat 18/7/20	11	Sat 18/7/20
238	Site Access in Portions 8B, 9, 9B, 9D	0 days	Sun 18/10/20	15,16	Sun 18/10/20



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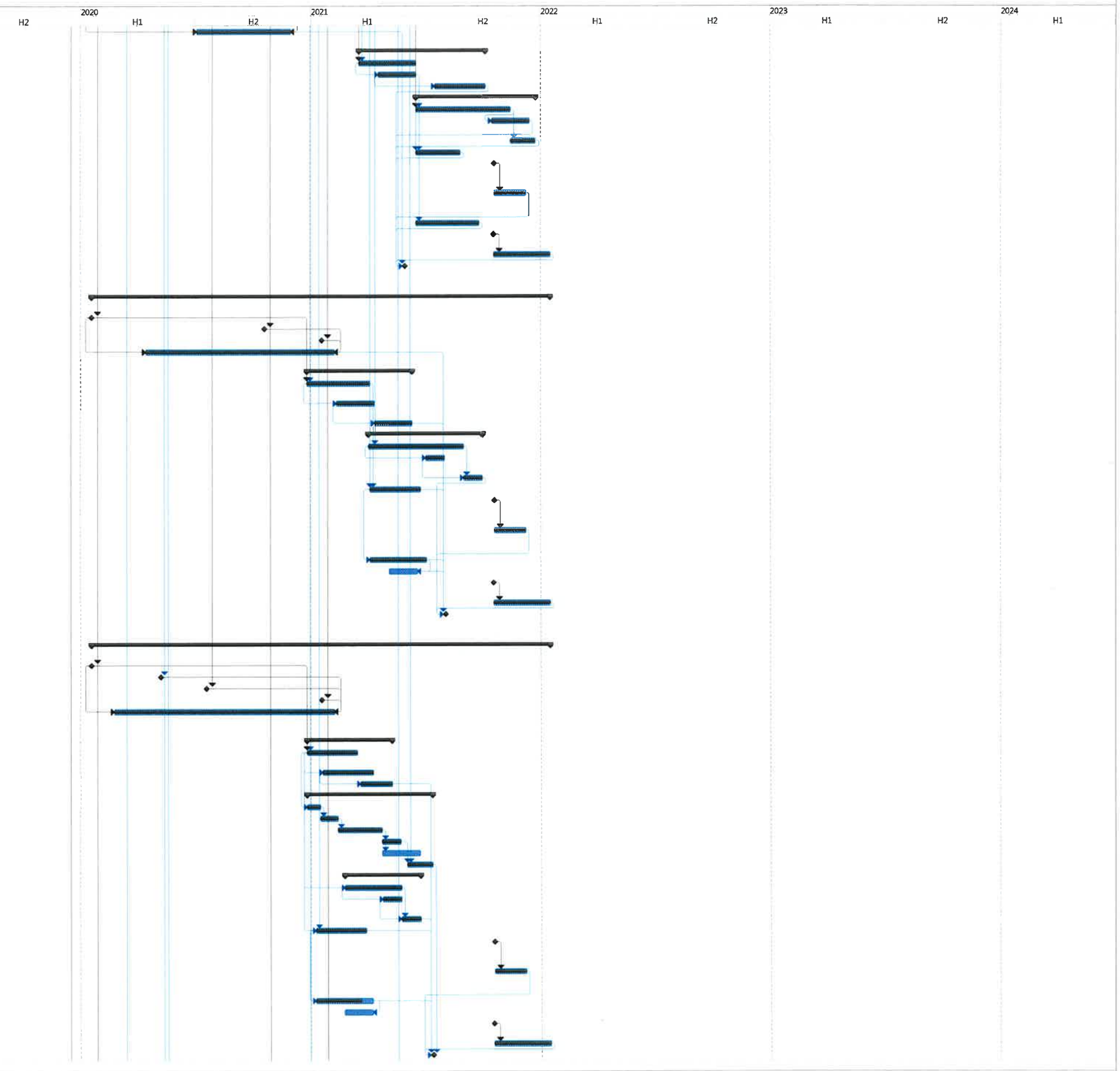
Task
Critical Task
Milestone
Summary
Rolled Up Task
Rolled Up Critical Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary
Group By Summary
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Progress
Deadline

ID	Task Name	Duration	Start	Predecessors	Finish
239	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	150 days	Fri 3/7/20	236SS,237FF+10 days,238FF+10	Sun 29/11/20
240	**Wetland Restoration / Wetland Creation**	**200 days**	**Fri 19/3/21**		**Mon 4/10/21**
241	Excavation	90 days	Fri 19/3/21	236,53,51,237,238	Wed 16/6/21
242	Backfilling	60 days	Sun 18/4/21	241SS+30 days	Wed 16/6/21
243	Agricultural Planting	80 days	Sat 17/7/21	242SS+90 days	Mon 4/10/21
244	**Construction of Storage Sheds**	**190 days**	**Thu 17/6/21**		**Thu 23/12/21**
245	Construction of concrete structure	150 days	Thu 17/6/21	242,238,16	Sat 13/11/21
246	Installation of Alluminium Window/Louvre and GMS Door with recycle timber decoration	60 days	Fri 15/10/21	245FS-30 days	Mon 13/12/21
247	Installation of GMS roofing structure with recycle timber	40 days	Sun 14/11/21	245	Thu 23/12/21
248	Construction of Channel	70 days	Thu 17/6/21	242,78	Wed 25/8/21
249	Compensation Event No. 49 (PMI-048) - Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	0 days	Tue 19/10/21		Tue 19/10/21
250	Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	50 days	Tue 19/10/21	249	Tue 7/12/21
251	Construction of walkway	100 days	Thu 17/6/21	242	Fri 24/9/21
252	Compensation Event No. 61 (PMI-052)- Construction of Drainage Ditches at Long Valley	0 days	Mon 18/10/21		Mon 18/10/21
253	Construction of Drainage Ditches in Section 6	90 days	Mon 18/10/21	252	Sat 15/1/22
254	**Completion of Section 6 of the works**	**0 days**	**Sun 30/5/21**	**243,247,248,251,**	**Sun 30/5/21**
255					
256	**10. Section 7 of the works (Portions 10,10A,10B, 13,13A and 16,16A,16B)**	**728 days**	**Sat 18/1/20**		**Sat 15/1/22**
257	Site Access in Portions 10A, 10B, 13A, 16	0 days	Sat 18/1/20	6	Sat 18/1/20
258	Site Access in Portions 10, 13	0 days	Sun 18/10/20	14	Sun 18/10/20
259	Site Access in Portions 16A, 16B	0 days	Mon 18/1/21	17	Mon 18/1/21
260	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	300 days	Tue 14/4/20	257SS,258FF+20 days,259FF+20	Sun 7/2/21
261	**Wetland Restoration / Wetland Creation**	**167 days**	**Sat 26/12/20**		**Thu 10/6/21**
262	Excavation	100 days	Sat 26/12/20	257,53,51	Sun 4/4/21
263	Backfilling	60 days	Thu 11/2/21	262SS+47 days	Sun 11/4/21
264	Agricultural Planting	60 days	Mon 12/4/21	263SS+60 days	Thu 10/6/21
265	**Construction of storage sheds**	**180 days**	**Sat 3/4/21**		**Wed 29/9/21**
266	Construction of concrete structure	150 days	Sat 3/4/21	18	Mon 30/8/21
267	Installation of Alluminium Window/Louvre and GMS Door with recycle timber decoration	30 days	Fri 2/7/21	266SS+90 days	Sat 31/7/21
268	Installation of GMS roofing structure with recycle timber	30 days	Tue 31/8/21	267SS+30 days,2	Wed 29/9/21
269	Construction of Channel	80 days	Mon 5/4/21	78,262	Wed 23/6/21
270	Compensation Event No. 49 (PMI-048) - Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	0 days	Tue 19/10/21		Tue 19/10/21
271	Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	50 days	Tue 19/10/21	270	Tue 7/12/21
272	Construction of walkway	90 days	Mon 5/4/21	269SS	Sat 3/7/21
273	Construction of entry landing with drop bar	45 days	Wed 5/5/21	272FF-15 days	Fri 18/6/21
274	Compensation Event No. 61 (PMI-052)- Construction of Drainage Ditches at Long Valley	0 days	Mon 18/10/21		Mon 18/10/21
275	Construction of Drainage Ditches in Section 7	90 days	Mon 18/10/21	274	Sat 15/1/22
276	**Completion of Section 7 of the works**	**0 days**	**Mon 2/8/21**	**264,268,269,272,**	**Mon 2/8/21**
277					
278	**11. Section 8 of the works (Portions 7,7A,7B, 17,17A,17B, 19,19A,19B,19C, 20,20A,20B&20C)**	**728 days**	**Sat 18/1/20**		**Sat 15/1/22**
279	Site Access in Portions 7, 17, 19A, 19B, 19C, 20A, 20B	0 days	Sat 18/1/20	6	Sat 18/1/20
280	Site Access in Portions 19, 20, 20C	0 days	Thu 7/5/20	9	Thu 7/5/20
281	Site Access in Portions 7A, 7B	0 days	Sat 18/7/20	11	Sat 18/7/20
282	Site Access in Portions 17A, 17B	0 days	Mon 18/1/21	17	Mon 18/1/21
283	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	350 days	Mon 24/2/20	279SS,280FF+20 days,281FF+20 days,282FF+20	Sun 7/2/21
284	**Wetland Restoration / Wetland Creation**	**135 days**	**Sat 26/12/20**		**Sun 9/5/21**
285	Excavation	80 days	Sat 26/12/20	279,53,51	Mon 15/3/21
286	Backfilling	80 days	Wed 20/1/21	285SS+25 days	Fri 9/4/21
287	Agricultural Planting	50 days	Sun 21/3/21	286SS+60 days	Sun 9/5/21
288	**Construction of Type 2 storage house**	**199 days**	**Sat 26/12/20**		**Mon 12/7/21**
289	Excavation and formation preparation	21 days	Sat 26/12/20	285SS	Fri 15/1/21
290	Construction of base slab	28 days	Sat 16/1/21	289	Fri 12/2/21
291	Construction of walls and roof	70 days	Sat 13/2/21	290	Fri 23/4/21
292	Installation of aluminium louvre / GMS door	30 days	Sat 24/4/21	291	Sun 23/5/21
293	Installation of recycled timber strip / external finishing	60 days	Sat 24/4/21	291	Tue 22/6/21
294	Installation of E&M works with testing & commissioning	40 days	Thu 3/6/21	292,73	Mon 12/7/21
295	**Construction of storage sheds**	**120 days**	**Wed 24/2/21**		**Wed 23/6/21**
296	Construction of concrete structure	90 days	Wed 24/2/21	285SS+60 days	Mon 24/5/21
297	Installation of Alluminium Window/Louvre and GMS Door with recycle timber decoration	30 days	Sun 25/4/21	296SS+60 days	Mon 24/5/21
298	Installation of GMS roofing structure with recycle timber	30 days	Tue 25/5/21	297SS+21 days,2	Wed 23/6/21
299	Construction of Channel	80 days	Sat 9/1/21	78,285SS	Mon 29/3/21
300	Compensation Event No. 49 (PMI-048) - Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	0 days	Tue 19/10/21		Tue 19/10/21
301	Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	50 days	Tue 19/10/21	300	Tue 7/12/21
302	Construction of walkway	90 days	Sat 9/1/21	299SS	Thu 8/4/21
303	Construction of entry landing with drop bar	45 days	Tue 23/2/21	302FF	Thu 8/4/21
304	Compensation Event No. 61 (PMI-052)- Construction of Drainage Ditches at Long Valley	0 days	Mon 18/10/21		Mon 18/10/21
305	Construction of Drainage Ditches in Section 8	90 days	Mon 18/10/21	304	Sat 15/1/22
306	**Completion of Section 8 of the works**	**0 days**	**Tue 13/7/21**	**287,294,298,299,**	**Tue 13/7/21**



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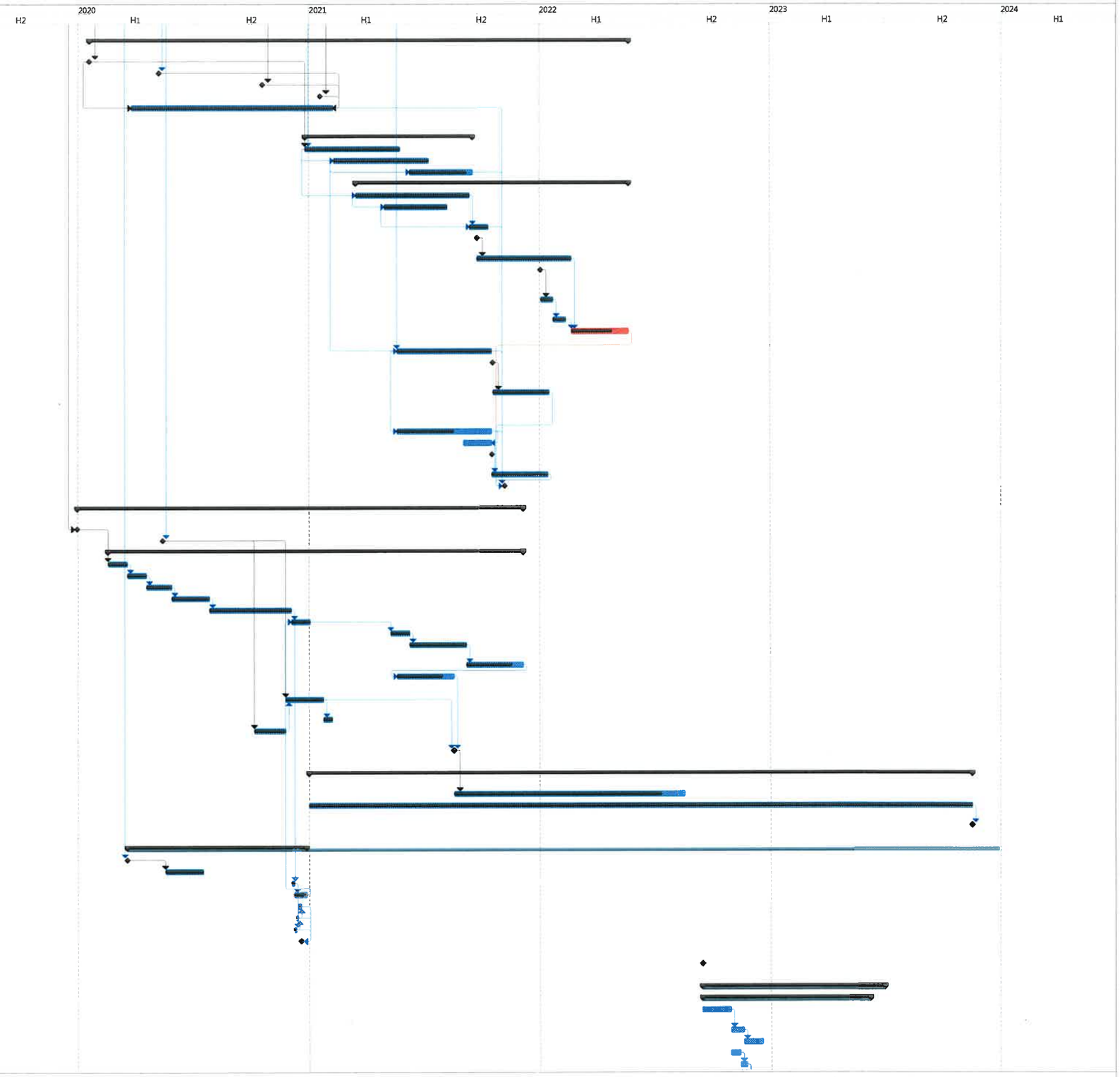
Task | Summary | Rolled Up Milestone | External Tasks | Inactive Milestone | Duration-only | Start-only | External Milestone
Critical Task | Rolled Up Task | Rolled Up Progress | Project Summary | Inactive Summary | Manual Summary Rollup | Finish-only | Progress
Milestone | Rolled Up Critical Task | Split | Group By Summary | Manual Task | Manual Summary | External Tasks | Deadline

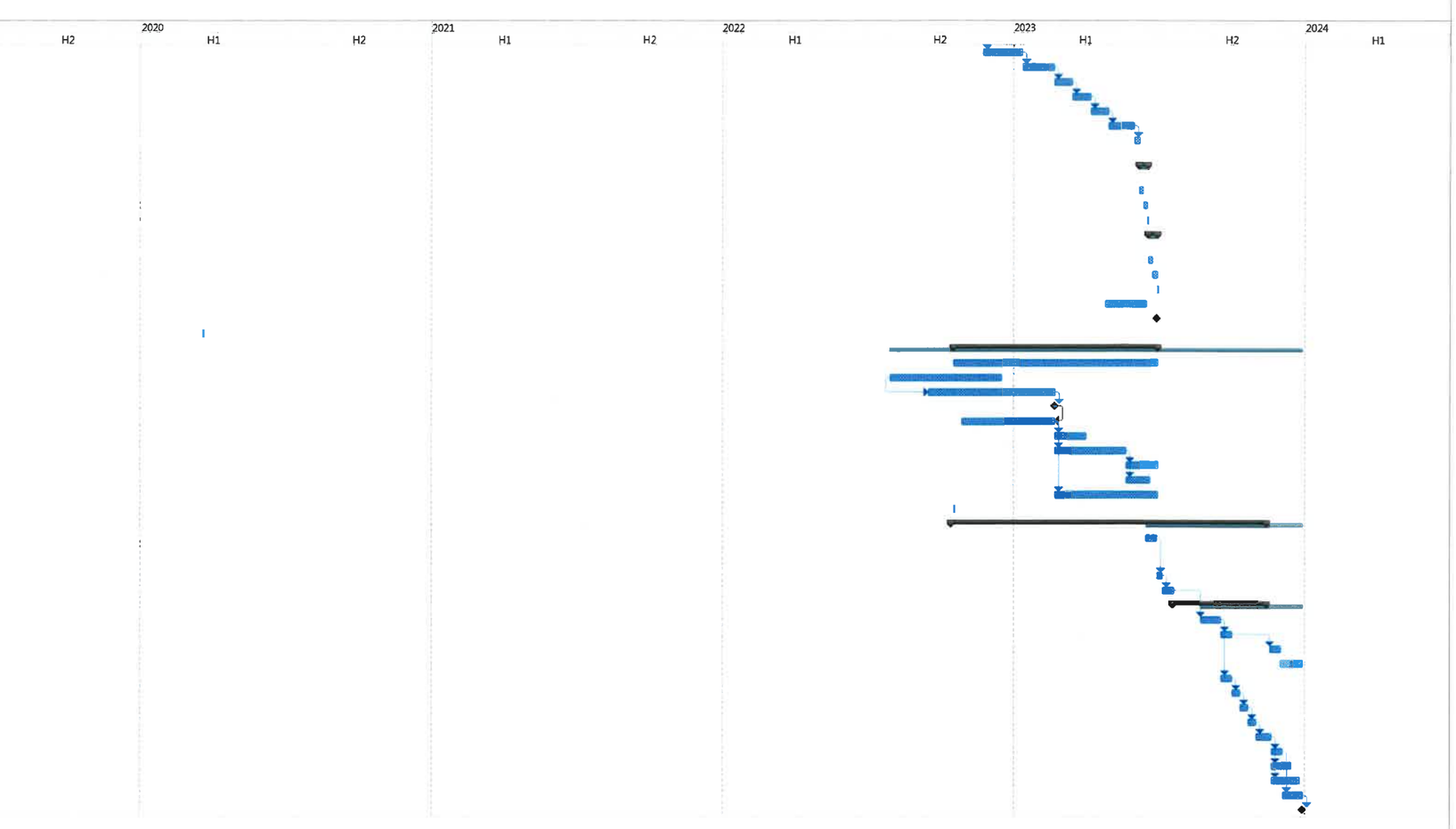
ID	Task Name	Duration	Start	Predecessors	Finish
307					
308	**12. Section 9 of the works (Portions 11,11A,11B, 12,12A~12D, and 15,15A~15C)**	**854 days**	**Sat 18/1/20**		**Sat 21/5/22**
309	Site Access in Portions 11A, 11B, 12A, 12C, 12D, 15B, 15C	0 days	Sat 18/1/20	6	Sat 18/1/20
310	Site Access in Portion 15A	0 days	Thu 7/5/20	9	Thu 7/5/20
311	Site Access in Portions 11, 12, 12B	0 days	Sun 18/10/20	14	Sun 18/10/20
312	Site Access in Portion 15	0 days	Mon 18/1/21	17	Mon 18/1/21
313	General site clearance / demolition work / Removal of Asbesto Containing Material & Dioxin Contaminated	320 days	Wed 25/3/20	309SS,310FF+20 days,311FF+20 days,312FF+20	Sun 7/2/21
314	**Wetland Restoration / Wetland Creation**	**265 days**	**Sat 26/12/20**		**Thu 16/9/21**
315	Excavation	150 days	Sat 26/12/20	309,53,51	Mon 24/5/21
316	Backfilling	150 days	Tue 9/2/21	315SS+45 days	Thu 8/7/21
317	Agricultural Planting	100 days	Wed 9/6/21	316SS+120 days	Thu 16/9/21
318	**Construction of storage sheds**	**432 days**	**Tue 16/3/21**		**Sat 21/5/22**
319	Construction of concrete structure	180 days	Tue 16/3/21	315SS+80 days	Sat 11/9/21
320	Installation of Alluminium Window/Louvre and GMS Door with recycle timber decoration	100 days	Fri 30/4/21	319SS+45 days	Sat 7/8/21
321	Installation of GMS roofing structure with recycle timber	30 days	Sun 12/9/21	320SS+21 days,3:	Mon 11/10/21
322	Compensation Event No. 59 (PMI-060) - Provision of Dangerous Goods Store at Storage Shed 30	0 days	Fri 24/9/21		Fri 24/9/21
323	Design of Fire Services	150 days	Fri 24/9/21	322	Sun 20/2/22
324	Compensation Event No. 76 (PMI-070) - Additional Fill Slope Foundation Works for Storage Shed 30	0 days	Mon 3/1/22		Mon 3/1/22
325	Construction of Fill Slope Foundation Works for Storage Shed SS30	20 days	Mon 3/1/22	324	Sat 22/1/22
326	Construction of Storage Shed SS30	20 days	Sun 23/1/22	325	Fri 11/2/22
327	Installation of E&M works & Fire Services with testing & commissioning	90 days	Mon 21/2/22	323,326	Sat 21/5/22
328	Construction of Channel	150 days	Thu 20/5/21	316SS+100 days,:	Sat 16/10/21
329	Compensation Event No. 49 (PMI-048) - Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	0 days	Tue 19/10/21		Tue 19/10/21
330	Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	90 days	Tue 19/10/21	329	Sun 16/1/22
331	Construction of walkway	150 days	Thu 20/5/21	328SS	Sat 16/10/21
332	Construction of entry landing with drop bar	45 days	Thu 2/9/21	331FF	Sat 16/10/21
333	Compensation Event No. 61 (PMI-052)- Construction of Drainage Ditches at Long Valley	0 days	Mon 18/10/21		Mon 18/10/21
334	Construction of Drainage Ditches in Section 9	90 days	Sun 17/10/21	332	Fri 14/1/22
335	**Completion of Section 9 of the works**	**0 days**	**Sat 6/11/21**	**317,321,328,331,**	**Sat 6/11/21**
336					
337	**14. Section 11 of the works (Portions 22, 23, 24 and remainder works)**	**706 days**	**Tue 31/12/19**		**Sun 5/12/21**
338	Site Access in Portions 23, 24	0 days	Tue 31/12/19	7	Tue 31/12/19
339	Site Access in Portion 22	0 days	Wed 13/5/20	10	Wed 13/5/20
340	**Egretray Site Protion 23 & 24**	**657 days**	**Tue 18/2/20**		**Sun 5/12/21**
341	General site clearance	30 days	Tue 18/2/20	338	Wed 18/3/20
342	Erect site hoarding (Deleted)	30 days	Thu 19/3/20	341	Fri 17/4/20
343	Preliminary Survey	40 days	Sat 18/4/20	342	Wed 27/5/20
344	Submission of mehtodology for translocation	60 days	Thu 28/5/20	343	Sun 26/7/20
345	Approval of Methodology for Translocation	130 days	Mon 27/7/20	344	Thu 3/12/20
346	Translocation works	30 days	Fri 4/12/20	345,366	Sat 2/1/21
347	Planting in Portion 23 & 24	30 days	Mon 10/5/21	346	Tue 8/6/21
348	Provision of Railing and Gate at Portion 23 (Under PMI 026 / CE 019)	90 days	Wed 9/6/21	347	Mon 6/9/21
349	Establishmnet of A1-7FLN Egretray Site (Portion 23)	90 days	Tue 7/9/21	348	Sun 5/12/21
350	Establishment of B1-7FLN Egretray Site (Portion 24)	90 days	Thu 20/5/21	349FS-200 days	Tue 17/8/21
351					
352	Preparation Works for Landscaping work at existing Ho Sheung Heung Egretry Site (Portion 22)	60 days	Wed 25/11/20	339,354	Sat 23/1/21
353	Planting for Ho Sheung Heung Egretry Site	14 days	Sun 24/1/21	352	Sat 6/2/21
354	Compensation Event No. 017 - Removal of Existing Unsafe Sheds	50 days	Tue 6/10/20	339	Tue 24/11/20
355	**Completion of Section 11 of the works**	**0 days**	**Tue 17/8/21**	**352,350**	**Tue 17/8/21**
356					
357	**15. Section 11A of the works (Establishment works for Section 11)**	**1050 days**	**Fri 1/1/21**		**Thu 16/11/23**
358	Establishment works	365 days	Wed 18/8/21	355	Wed 17/8/22
359	Compensation Event No. 15 Provisionof Decoys and Broadcast of Bird Sound in Portions 23 & 24	1050 days	Fri 1/1/21		Thu 16/11/23
360	**Completion of Section 11A of the works**	**0 days**	**Thu 16/11/23**	**359**	**Thu 16/11/23**
361					
362	**16. Section 12 of the works (Portions 25, 26 and 27)**	**284 days**	**Wed 18/3/20**		**Sun 27/12/20**
363	Site Access in Portions 25, 26, 27	0 days	Wed 18/3/20	3FS+90 days	Wed 18/3/20
364	Boundary Site Area	60 days	Mon 18/5/20	363FS+60 days	Thu 16/7/20
365	Preparation for translocation works	4 days	Fri 4/12/20	345	Mon 7/12/20
366	Compensation Event No. 11 - Translocation of Rose Bitterling	20 days	Tue 8/12/20	365	Sun 27/12/20
367	Collection site C1 (Portion 25)	5 days	Mon 14/12/20	368	Fri 18/12/20
368	Collection site C2 (Portion 26)	3 days	Fri 11/12/20	369	Sun 13/12/20
369	Collcetion site C3 (Portion 27)	3 days	Tue 8/12/20	365	Thu 10/12/20
370	**Completion of Section 12 of the works**	**0 days**	**Fri 18/12/20**	**367FF,368FF,369I**	**Fri 18/12/20**
371					
372	Confirmation of Permanent Location of Tudigongs	0 days	Thu 15/9/22		Thu 15/9/22
373					
374	**Section 1**	**289 days**	**Thu 15/9/22**		**Fri 30/6/23**
375	**Construction of Pavilion at Yin Kong Road**	**266 days**	**Thu 15/9/22**		**Wed 7/6/23**
376	Liaison with Yin Kong Representative for the Details of Pavilion	45 days	Thu 15/9/22		Sat 29/10/22
377	Design of Pavilion	20 days	Sun 30/10/22	376	Fri 18/11/22
378	Material Ordering	30 days	Sat 19/11/22	377	Sun 18/12/22
379	Site Clearance and Site Formation	15 days	Sun 30/10/22		Sun 13/11/22
380	Construction of Base Slab	10 days	Mon 14/11/22	379	Wed 23/11/22



Revised Programme: Sep 2022
Data Date : 2022-9-3

Task
Critical Task
Milestone
Summary
Rolled Up Task
Rolled Up Critical Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary
Group By Summary
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Progress
Deadline

ID	Task Name	Duration	Start	Predecessors	Finish
381	Construction of Columns	49 days	Thu 24/11/22	380	Wed 11/1/23
382	Construction of Inclinded Roof	40 days	Thu 12/1/23	381	Mon 20/2/23
383	Installation of Glazed Roof Tile and Architectural Finishes	23 days	Tue 21/2/23	382	Wed 15/3/23
384	Surrounding Features and Connection to Yin Kong Road	23 days	Thu 16/3/23	383	Fri 7/4/23
385	Advanced to Expose the Existing UU	22 days	Sat 8/4/23	384	Sat 29/4/23
386	Connection of Proposed 250 Pipe to Existing Watermain	32 days	Sun 30/4/23	385	Wed 31/5/23
387	Laying of K1 Kerb (Affected by WSD connection works at T Junuction at Castle Road and Yin Kong Road	7 days	Thu 1/6/23	386	Wed 7/6/23
388	**Stage 1 Protection of Shallow Cover Cable Duct (Near 恩慈之家 Side)**	**11 days**	**Thu 8/6/23**		**Sun 18/6/23**
389	Formation SRT	5 days	Thu 8/6/23		Mon 12/6/23
390	Subbase SRT	5 days	Tue 13/6/23		Sat 17/6/23
391	Laying of Bitumen	1 day	Sun 18/6/23		Sun 18/6/23
392	**Stage 2 Protection of Shallow Cover Cable Duct (Near Site Office Side)**	**12 days**	**Mon 19/6/23**		**Fri 30/6/23**
393	Formation SRT	5 days	Mon 19/6/23		Fri 23/6/23
394	Subbase SRT	6 days	Sat 24/6/23		Thu 29/6/23
395	Laying of Bitumen	1 day	Fri 30/6/23		Fri 30/6/23
396	BaiSun and Relocation of Tugigongs	51 days	Wed 26/4/23		Thu 15/6/23
397	Completion of Section 1	0 days	Fri 30/6/23		Fri 30/6/23
398					
399	**Section 2**	**256 days**	**Tue 18/10/22**		**Fri 30/6/23**
400	Extension of Time as at July 2022	256 days	Tue 18/10/22		Fri 30/6/23
401	Original Fabrication & Delivery Schedule of Lodging Unit	140 days	Sat 30/7/22		Fri 16/12/22
402	Additional Partition Wall for Pantry, Fabrication & Delivery Sche	158 days	Fri 16/9/22	401SS+48 days	Mon 20/2/23
403	Completion of Fabrication of 56nos. Lodging Unit	0 days	Mon 20/2/23	402	Mon 20/2/23
404	Delivery of Lodging Units and Installation	116 days	Fri 28/10/22	403FF	Mon 20/2/23
405	Installation of Staircase and Corridor	40 days	Tue 21/2/23	404	Sat 1/4/23
406	Construction of Additional Boundary Wall and Bamboo Fence	90 days	Tue 21/2/23	404	Sun 21/5/23
407	Construction of Emergency Vehicle Access	40 days	Mon 22/5/23	406	Fri 30/6/23
408	Construction of Additional Refuse Collection Point	30 days	Mon 22/5/23	406	Tue 20/6/23
409	Construction Roof and Stair and installation E & M works	130 days	Tue 21/2/23	404	Fri 30/6/23
410					
411	**Section 3**	**395 days**	**Sat 15/10/22**		**Mon 13/11/23**
412	Advance Works for Removal of Asbesto Roof Panel (scaffolding) ~ No work is allowed before Relocation of Tudigongs	14 days	Fri 16/6/23		Thu 29/6/23
413	Removal of Asbesto Roof Panel	7 days	Fri 30/6/23	412	Thu 6/7/23
414	Demolition of Village House and Site Clearance	14 days	Fri 7/7/23	413	Thu 20/7/23
415	**Construction of Car Park**	**117 days**	**Thu 20/7/23**		**Mon 13/11/23**
416	Preparation of Formation	25 days	Thu 24/8/23	414	Sun 17/9/23
417	Laying of Cable Duct and Drawpit	14 days	Mon 18/9/23	416	Sun 1/10/23
418	Installation of Lighting Pole & Pillar Box	14 days	Sat 18/11/23	417	Fri 1/12/23
419	CLP Energise	28 days	Fri 1/12/23		Thu 28/12/23
420	Laying of Sewerage Pipe	14 days	Mon 18/9/23	416	Sun 1/10/23
421	Formation Layer	10 days	Mon 2/10/23	420	Wed 11/10/23
422	Subbase	10 days	Thu 12/10/23	421	Sat 21/10/23
423	Final Layer	10 days	Sun 22/10/23	422	Tue 31/10/23
424	Construcion of Road Kerb	19 days	Wed 1/11/23	423	Sun 19/11/23
425	Construction of U-channel	14 days	Mon 20/11/23	424	Sun 3/12/23
426	Construction of Boundary Structure	25 days	Mon 20/11/23	424	Thu 14/12/23
427	Construction of Entrance Gantry	35 days	Mon 20/11/23	424	Sun 24/12/23
428	Construction of Pavement	25 days	Mon 4/12/23	425	Thu 28/12/23
429	Completion of Ssection 3	0 days	Thu 28/12/23	428	Thu 28/12/23



Revised Programme: Sep 2022
Data Date : 2022-9-3

Task	Summary	Rolled Up Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	External Milestone
Critical Task	Rolled Up Task	Rolled Up Progress	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Milestone	Rolled Up Critical Task	Split	Group By Summary	Manual Task	Manual Summary	External Tasks	Deadline

Legend

- **W/WS** — Intensive Wet Agricultural Land
  - Watercress/Water Spinach
- **WC/CA** — Less Intensive Wet Agricultural Land
  - Water Chestnut/ Chinese Arrowhead
- **L/WL** — Less Intensive Wet Agricultural Land
  - Lotus/Water Lily
- **PA** — Intensive Wet Agricultural Land
  - Paddy Field
- Marsh - Open Water
- Marsh
- Marsh - Reedbed
- Pond
- Water Flea Pond
- Mitigation Wetland
- Dry Agricultural Land
- Plantation
- Mitigation Plantation
- Village Area/ Urban/Residential Area
- Water Treatment Wetland
- Irrigation Channel
- Flow direction

(*) Habitat planted with low density of wet crops (<20% coverage) that concentrate at the centre

Figure 3. LVNP proposed layout plan

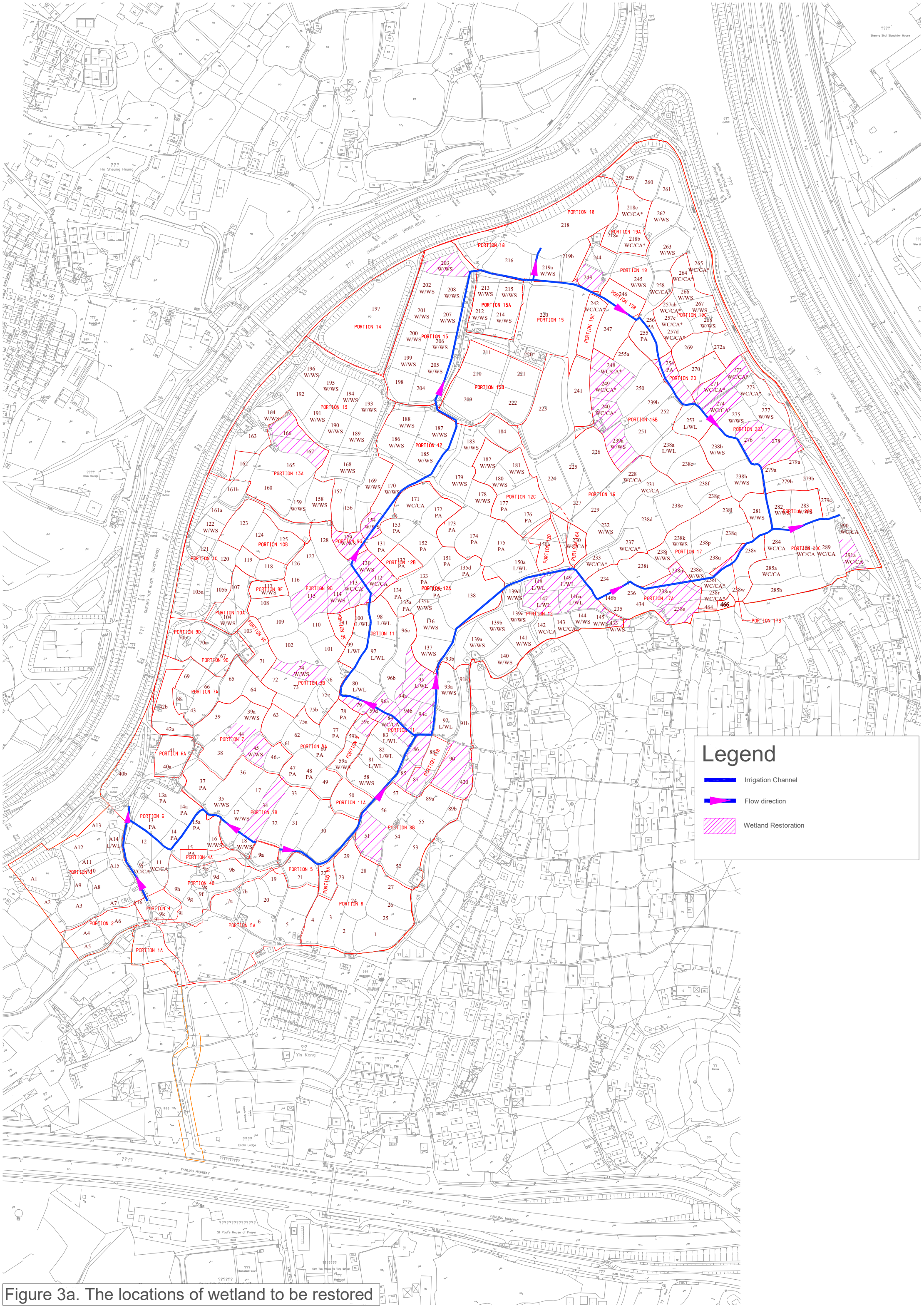


Figure 3a. The locations of wetland to be restored

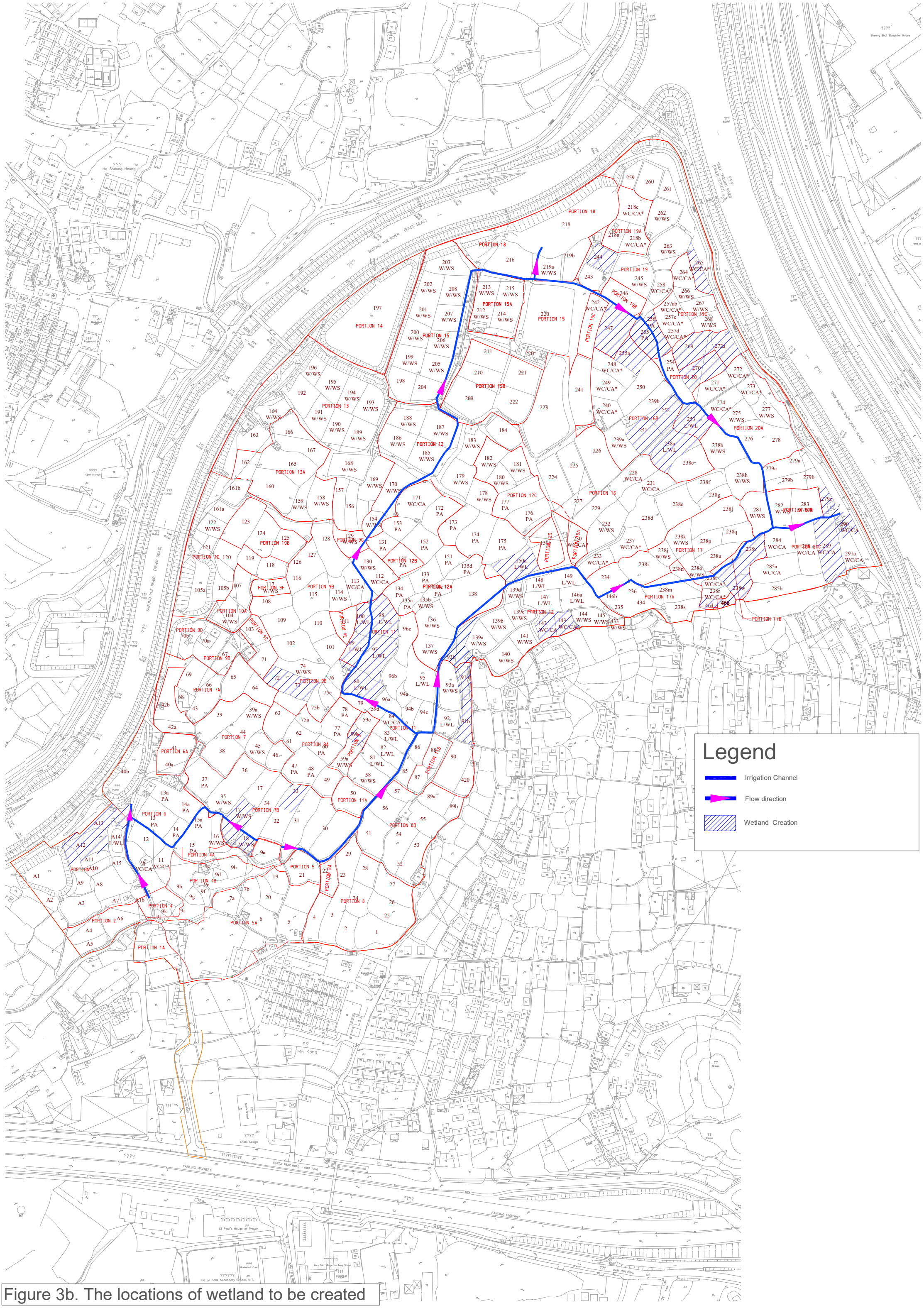


Figure 3b. The locations of wetland to be created

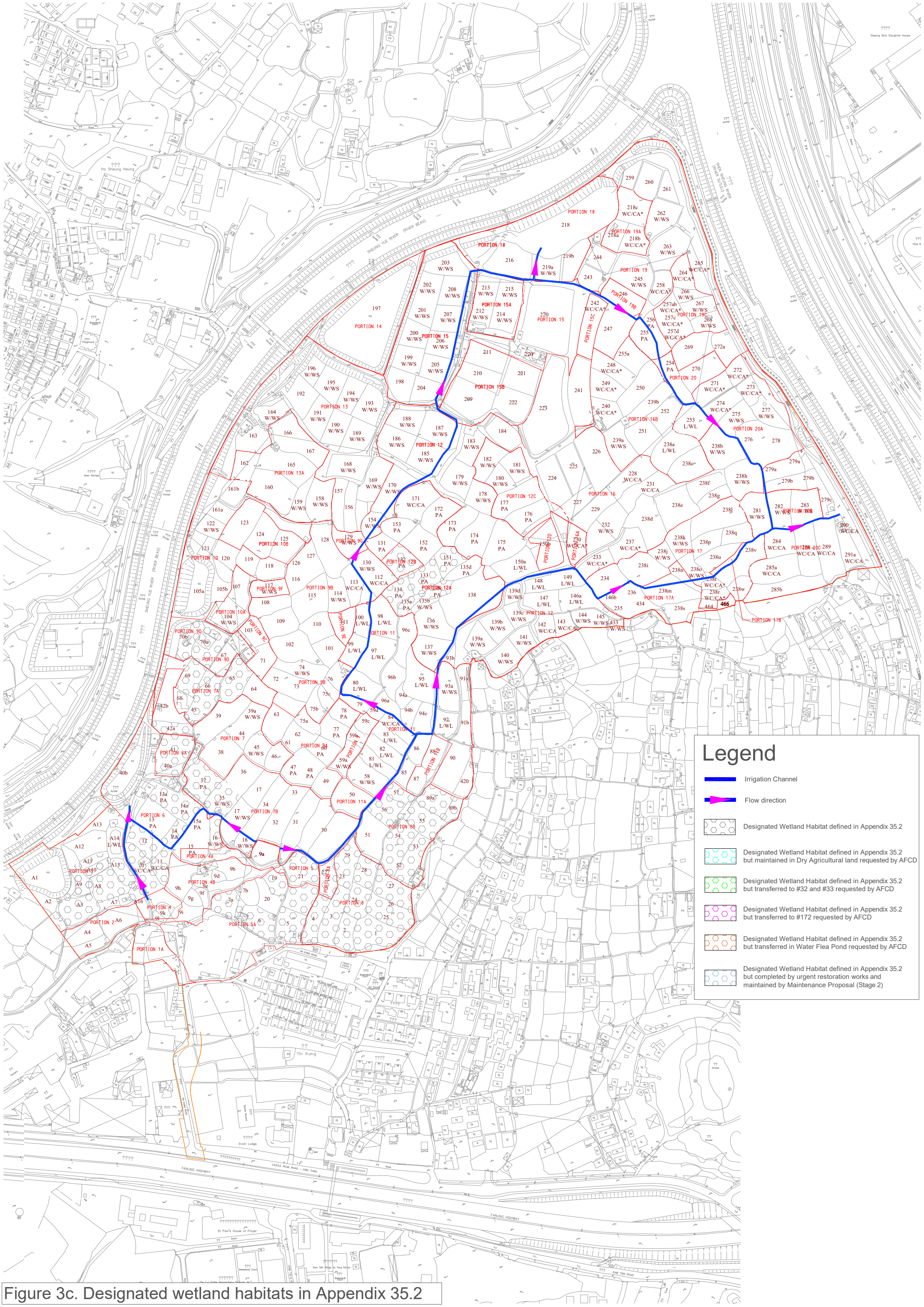


Figure 3c. Designated wetland habitats in Appendix 35.2

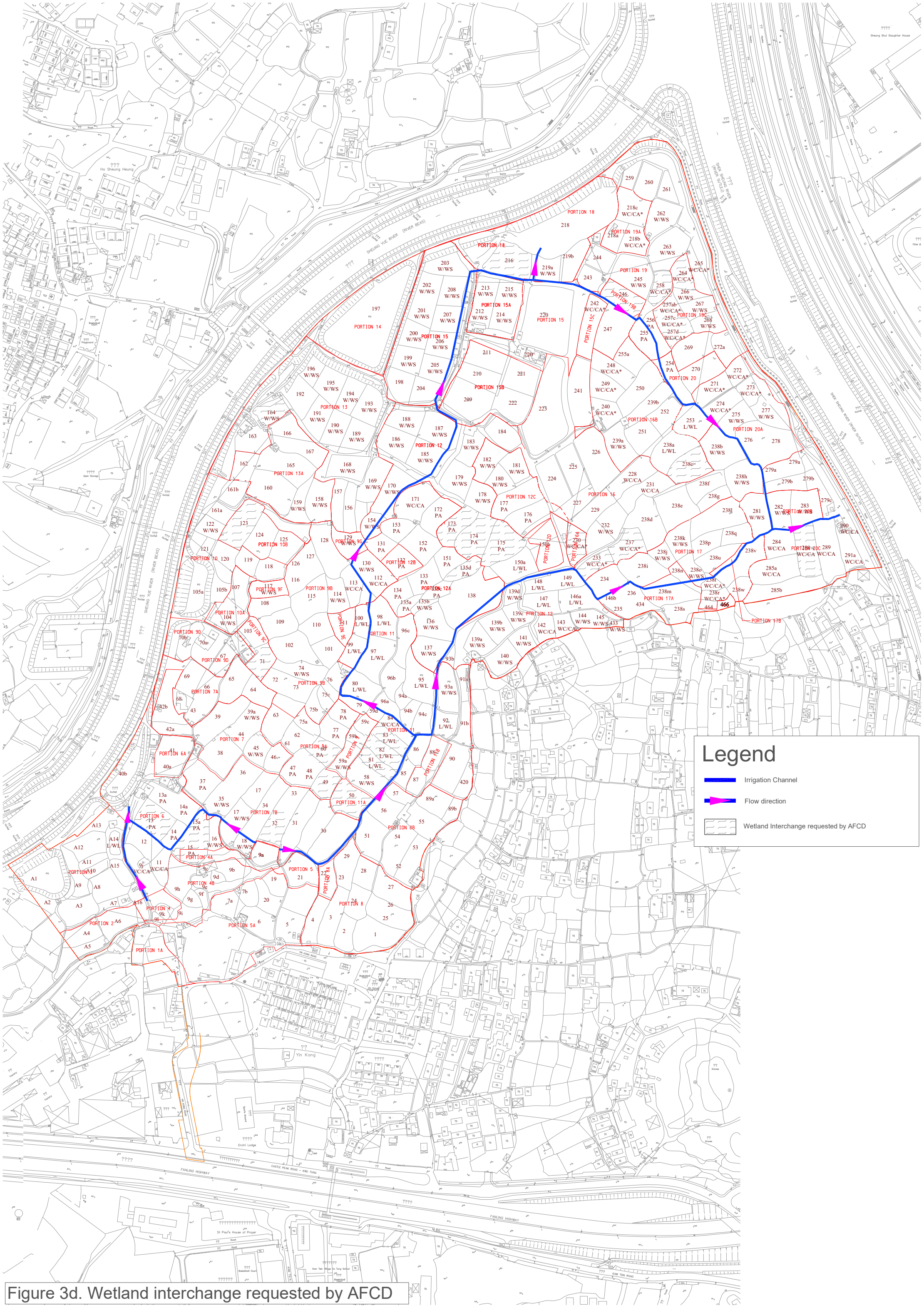
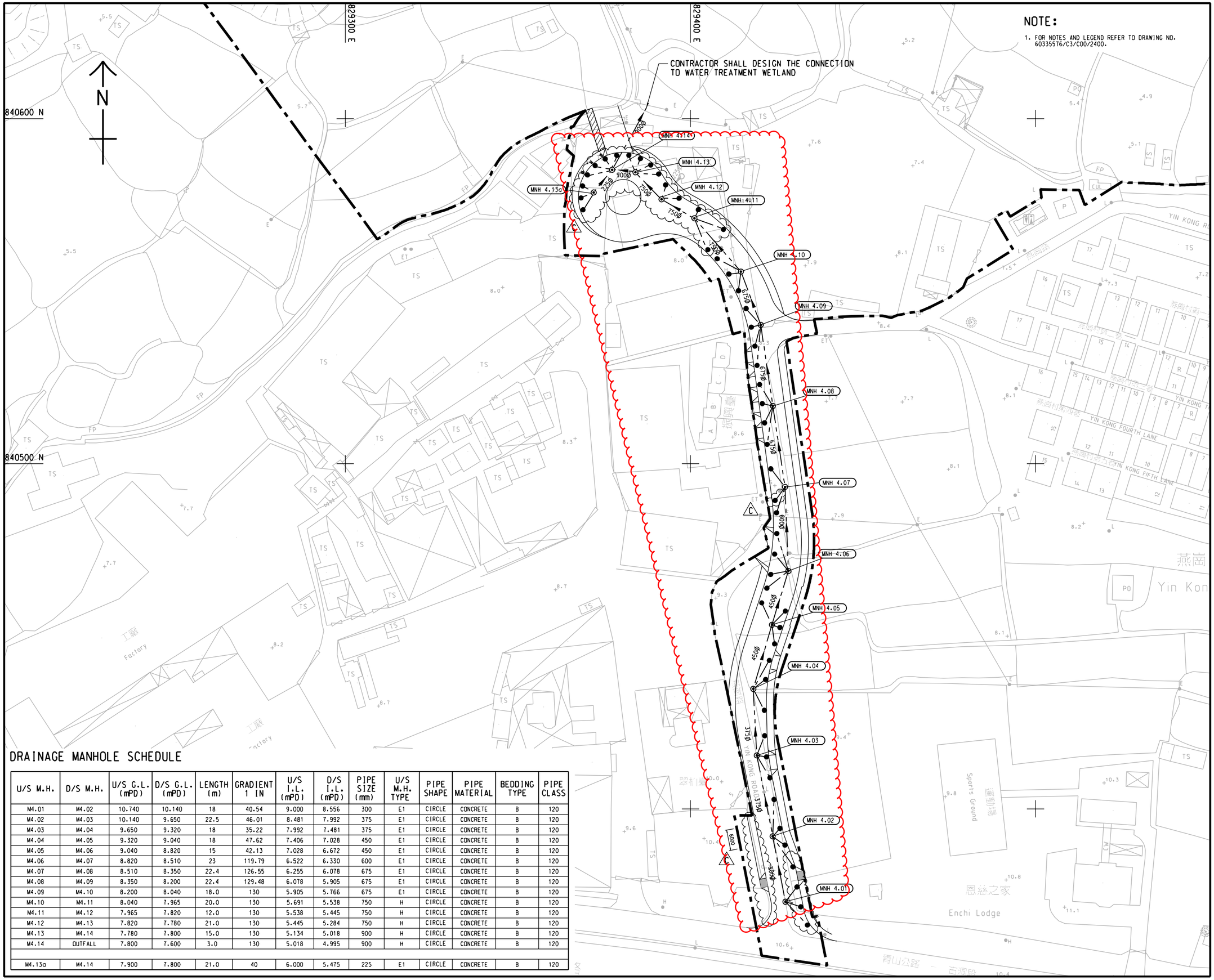


Figure 3d. Wetland interchange requested by AFCD



DRAINAGE MANHOLE SCHEDULE

U/S M.H.	D/S M.H.	U/S G.L. (mPD)	D/S G.L. (mPD)	LENGTH (m)	GRADIENT 1 IN	U/S I.L. (mPD)	D/S I.L. (mPD)	PIPE SIZE (mm)	U/S M.H. TYPE	PIPE SHAPE	PIPE MATERIAL	BEDDING TYPE	PIPE CLASS
M4.01	M4.02	10.740	10.140	18	40.54	9.000	8.556	300	E1	CIRCLE	CONCRETE	B	120
M4.02	M4.03	10.140	9.650	22.5	46.01	8.481	7.992	375	E1	CIRCLE	CONCRETE	B	120
M4.03	M4.04	9.650	9.320	18	35.22	7.992	7.481	375	E1	CIRCLE	CONCRETE	B	120
M4.04	M4.05	9.320	9.040	18	47.62	7.406	7.028	450	E1	CIRCLE	CONCRETE	B	120
M4.05	M4.06	9.040	8.820	15	42.13	7.028	6.672	450	E1	CIRCLE	CONCRETE	B	120
M4.06	M4.07	8.820	8.510	23	119.79	6.522	6.330	600	E1	CIRCLE	CONCRETE	B	120
M4.07	M4.08	8.510	8.350	22.4	126.55	6.255	6.078	675	E1	CIRCLE	CONCRETE	B	120
M4.08	M4.09	8.350	8.200	22.4	129.48	6.078	5.905	675	E1	CIRCLE	CONCRETE	B	120
M4.09	M4.10	8.200	8.040	18.0	130	5.905	5.766	675	E1	CIRCLE	CONCRETE	B	120
M4.10	M4.11	8.040	7.965	20.0	130	5.691	5.538	750	H	CIRCLE	CONCRETE	B	120
M4.11	M4.12	7.965	7.820	12.0	130	5.538	5.445	750	H	CIRCLE	CONCRETE	B	120
M4.12	M4.13	7.820	7.780	21.0	130	5.445	5.284	750	H	CIRCLE	CONCRETE	B	120
M4.13	M4.14	7.780	7.800	15.0	130	5.134	5.018	900	H	CIRCLE	CONCRETE	B	120
M4.14	OUTFALL	7.800	7.600	3.0	130	5.018	4.995	900	H	CIRCLE	CONCRETE	B	120
M4.13a	M4.14	7.900	7.800	21.0	40	6.000	5.475	225	E1	CIRCLE	CONCRETE	B	120

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
C	21/05/21	LAYOUT AMENDED	HLH	DT	WT
B	7/12/20	ROAD ALIGNMENT AMENDED	KLC	DT	WT
A	15/07/20	RUN IN ADDED AND MANHOLE RE-ARRANGED	KLC	DF	PY

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

CONSULTANT
AECOM

PROJECT
DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

CONTRACT TITLE
KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1: DEVELOPMENT OF LONG VALLEY NATURE PARK

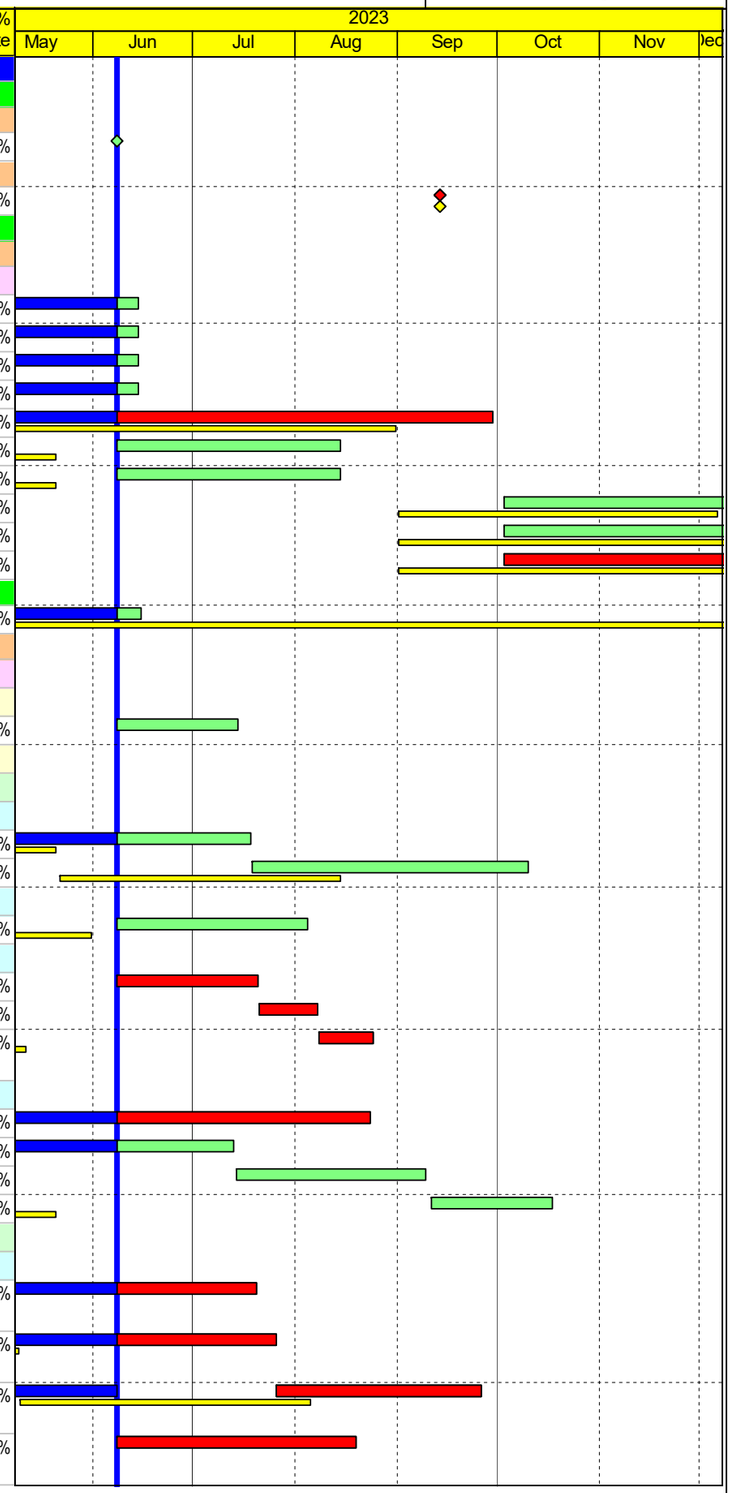
REMARK :
1. SUPERSEDE DRG NO. 60335576/C3/C00/2410

TITLE
YIN KONG ROAD - ROAD DRAINAGE LAYOUT

PROJECT NO.	CONTRACT NO.
60335576	ND/2019/03
SCALE: 1:500 (A1)	DATE: 4-JUN-20
DRAWN: KLC	PREPARED: DF
APPROVED: PY	
SKETCH NO.: ND/2019/03/R10/130/0052	REV.: C

Construction Programme of ND/2019/04

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
2023-05 Monthly Update (based on accepted Revised Programme RP05-1 with E0T)										
Project Contractual Dates										
Access Date of Each Portion										
CD-1020	Access date of Portion O (Upon PM Instruction for need of TTA)	0	0	08-Jun-23		08-Dec-22		773	Start Milestone	0%
Contract Sectional Completion Date										
CD-1170	S3 All works within Portion K1 including landscape softworks (1125 days)	0	0		13-Sep-23*		13-Sep-23	0	Finish Milestone	0%
Preliminary Works										
Submission										
Preparation for relevant works										
SUB-1470	Traffic Control and Surveillance System (TCSS)	90	6	08-Aug-22 A	14-Jun-23	08-Aug-22	23-Dec-22	398	Task Dependent	93.33%
SUB-1480	Traffic Detector System	90	6	08-Aug-22 A	14-Jun-23	08-Aug-22	23-Dec-22	398	Task Dependent	93.33%
SUB-1510	Crash cushion system.	90	6	08-Aug-22 A	14-Jun-23	08-Aug-22	23-Dec-22	349	Task Dependent	93.33%
SUB-1520	Access facilities	90	6	08-Aug-22 A	14-Jun-23	08-Aug-22	23-Dec-22	38	Task Dependent	93.33%
SUB-1460a	Pump systems and associated E&M Plants (for Sewerage Pumping station)	317	96	08-Aug-22 A	29-Sep-23	08-Aug-22	31-Aug-23	-20	Task Dependent	69.72%
SUB-1110	Prepare, submit & accept work submission for Noise Barrier Works	56	56	08-Jun-23	14-Aug-23	11-Feb-23	20-May-23	398	Task Dependent	0%
SUB-1120	Prepare, submit & accept work submission for erect NB steel post and panel	56	56	08-Jun-23	14-Aug-23	11-Feb-23	20-May-23	398	Task Dependent	0%
SUB-1420a	Lighting system and E&M (underpass)	80	80	03-Oct-23	08-Jan-24	01-Sep-23	06-Dec-23	7	Task Dependent	0%
SUB-1430	Electrical System for Stormwater Pumping Station	90	90	03-Oct-23	19-Jan-24	01-Sep-23	18-Dec-23	268	Task Dependent	0%
SUB-1460	Pump systems and associated E&M Plants (for Stormwater Pumping Static	372	372	03-Oct-23	02-Jan-25	01-Sep-23	30-Nov-24	-20	Task Dependent	0%
Construction Works										
CW-1000	Tree felling and protection at different portions (S8)	960	7	03-Dec-20 A	15-Jun-23	03-Dec-20	05-Dec-24	620	Task Dependent	99.27%
Civil Works around Interchange										
Stage 1										
Construction Underpass (Portion H/C7)										
INTS1-1300-2	Backfilling to Structure Works for Bay C1 to C4	30	30	08-Jun-23	14-Jul-23	08-Mar-23	15-Apr-23	265	Task Dependent	0%
UU Works (Portion H, J, K, L, M)										
North of Sha Tau Kok Road										
Rising main Works										
INTS1-112(	Rising Mains on Ma Sik Rd (Part 2)	70	33	11-Feb-23 A	18-Jul-23	23-Feb-23	20-May-23	215	Task Dependent	52.86%
INTS1-112(	Rising Mains on Ma Sik Rd (Part 3)	70	70	19-Jul-23	10-Oct-23	22-May-23	14-Aug-23	215	Task Dependent	0%
Sewerage Works										
INTS1-114(	Remaining sewerage at Ma Sik rd (Part 2)	48	48	08-Jun-23	04-Aug-23	30-Mar-23	31-May-23	270	Task Dependent	0%
Stormwater Works										
INTS1-113(	1350 stormwater pipe near junction of STK Rd/Ma Sik rd	35	35	08-Jun-23	20-Jul-23	20-Feb-23	31-Mar-23	-87	Task Dependent	0%
INTS1-113(	Testing of remaining 1350 stormwater pipe at Ma Sik rd	15	15	21-Jul-23	07-Aug-23	01-Apr-23	22-Apr-23	-87	Task Dependent	0%
INTS1-1130(	Connection of remaining 1350 stormwater pipe at Ma Sik rd to downstream pipeworks (constructed by other contract)	15	15	08-Aug-23	24-Aug-23	24-Apr-23	11-May-23	-87	Task Dependent	0%
Water Main Works										
INTS1-1210	Watermains DN600 near STK Rd N/B (For C9-C10)	80	64	11-Apr-23 A	23-Aug-23	14-Jan-23	25-Apr-23	-86	Task Dependent	20%
INTS1-1220	Water Pipes on Ma Sik Rd/On Kiu St/STK Rd (Part 1)	50	29	03-May-23 A	13-Jul-23	08-Dec-22	10-Feb-23	195	Task Dependent	42%
INTS1-122(	Water Pipes on Ma Sik Rd/On Kiu St/STK Rd (Part 2)	50	50	14-Jul-23	09-Sep-23	11-Feb-23	14-Apr-23	195	Task Dependent	0%
INTS1-122(	Water Pipes on Ma Sik Rd/On Kiu St/STK Rd (Part 3)	30	30	11-Sep-23	17-Oct-23	15-Apr-23	20-May-23	195	Task Dependent	0%
South of Sha Tau Kok Road										
Sewerage Works										
INTS1-1300(	Sewerage works including ELSW (Portion K), from FMH_FL5.05 to FMH_FL5.06	93	34	08-Dec-22 A	20-Jul-23	08-Dec-22	01-Apr-23	-35	Task Dependent	63.28%
INTS1-1300(	Sewerage works including ELSW (On Chuen St), from FMH_FL5.09 to FMH1004470 (Part 2)	60	39	28-Mar-23 A	26-Jul-23	23-Feb-23	09-May-23	-43	Task Dependent	34.67%
INTS1-1300(	Sewerage works including ELSW (On Chuen St), from FMH_FL5.09 to FMH1004470 (Part 3)	73	53	09-Apr-23 A	26-Sep-23	10-May-23	05-Aug-23	-43	Task Dependent	27.12%
INTS1-1300(	Sewerage works including ELSW (On Kiu St), from FMH_FL5.08 to FMH_FL5.09 (Part 1)	61	61	08-Jun-23	19-Aug-23	11-Feb-23	27-Apr-23	-94	Task Dependent	0%



Remaining Work | Crit Milestone | Milestone | Actual Work | Baseline Milestone | Actual Milestone | Project Baseline | Critical Remaining Work

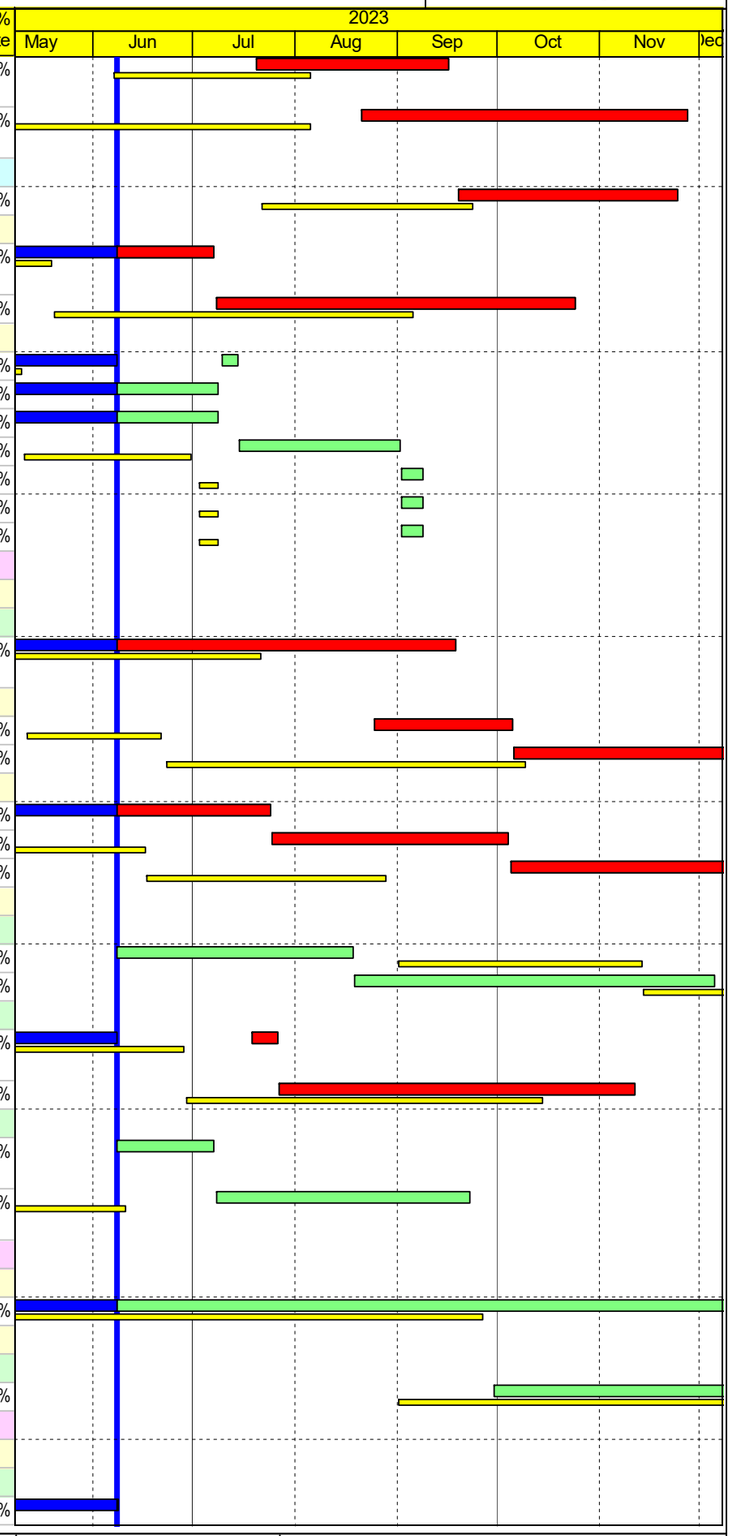
Project ID: RP-RP05-1-MU05-2023

Three Months Rolling Programme (08 June 2023 to 30 September 2023)

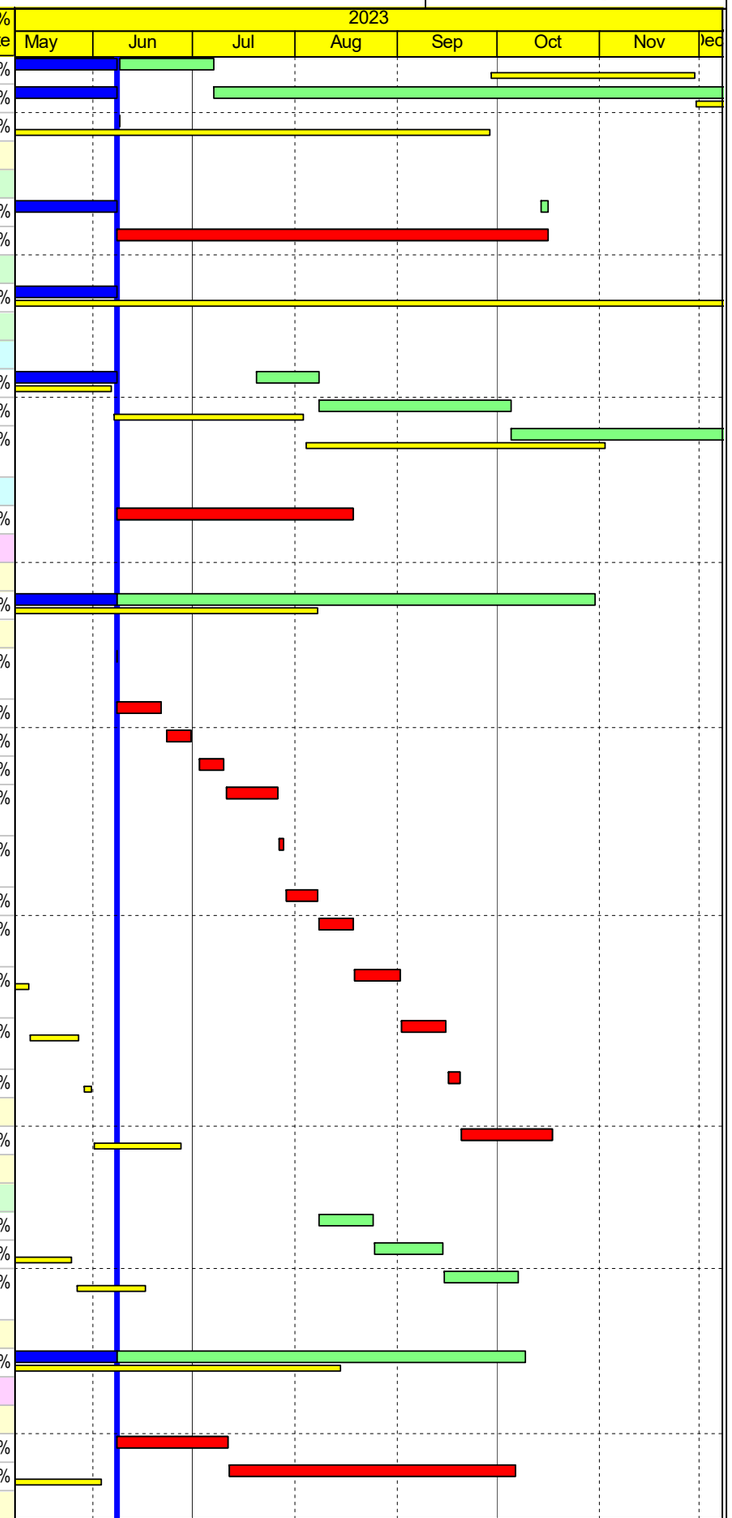
Data Date: 08-Jun-23
Printed: 19-Jun-23 08:05
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP05			
Date	Revision	Ch...	Approved
08-Jun-23	Data Date		

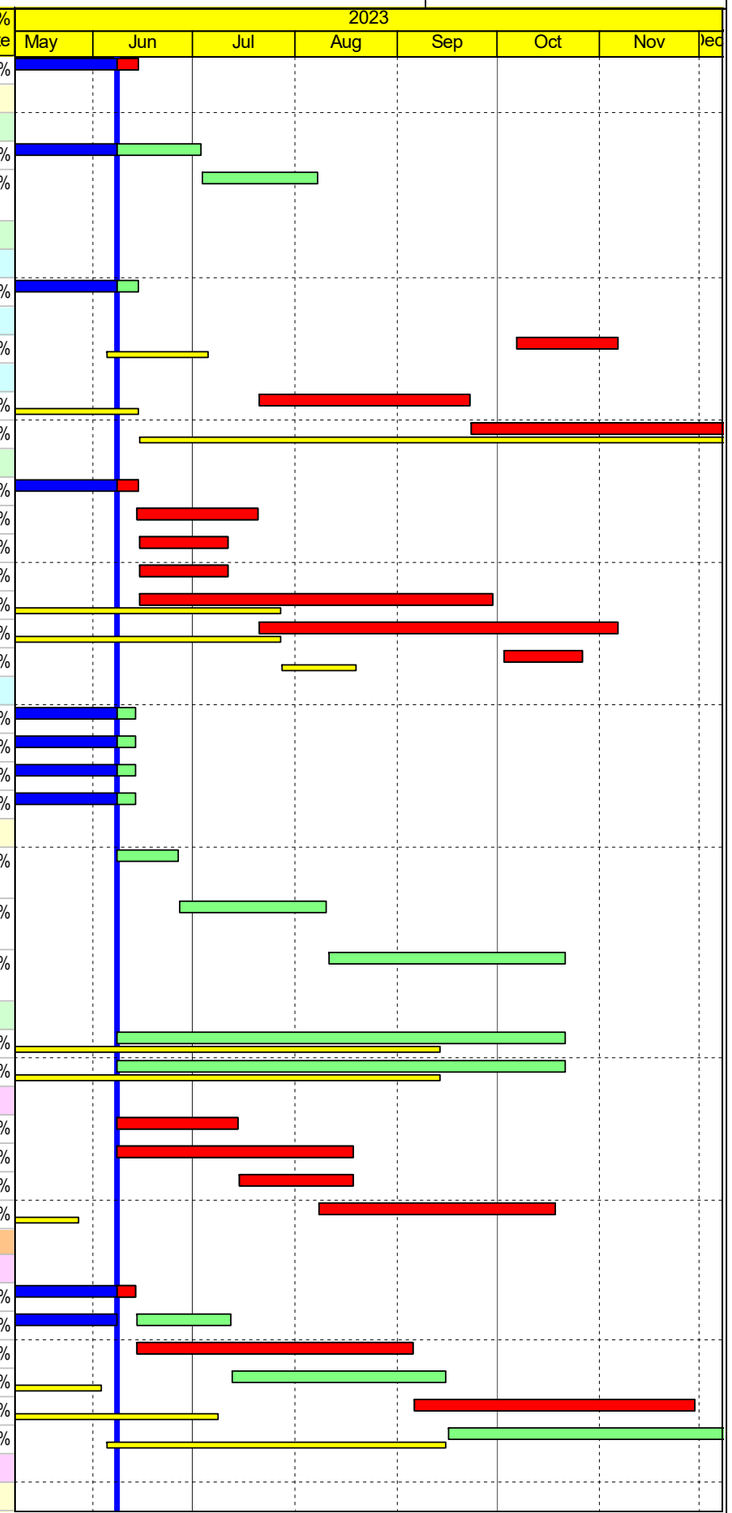
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
INTS1-1300(	Sewerage works including ELSW (STK Road), from FMH_FL5.00 to FMH_FL5.02 (Part 2)	50	50	20-Jul-23	16-Sep-23	07-Jun-23	05-Aug-23	-35	Task Dependent	0%
INTS1-1300a	Sewerage works including ELSW (On Kiu St), from FMH_FL5.08 to FMH_FL5.09 (Part 2)	82	82	21-Aug-23	27-Nov-23	28-Apr-23	05-Aug-23	-94	Task Dependent	0%
Stormwater Works and Retaining Wall										
INTS1-1310	Minor TTA for Retaining Wall FW32 and FW33	55	55	19-Sep-23	24-Nov-23	22-Jul-23	23-Sep-23	-46	Task Dependent	0%
F6 after TTA2 Implemented(Southbound Temporary Road)										
INTS1-9010a	Piling Works for Lift tower and Footbridge F6 (Part D) (total 18nos. socket H piles, 4d/pile)	72	24	03-May-23 A	07-Jul-23	20-Feb-23	19-May-23	-17	Task Dependent	66.67%
INTS1-9020	ELS for F6 Part D	90	90	08-Jul-23	24-Oct-23	20-May-23	05-Sep-23	-17	Task Dependent	0%
CLC										
CLC-1040	Builder works/Renovation works before installation of prefabricated panel	36	5	09-Apr-23 A	14-Jul-23	24-Mar-23	10-May-23	549	Task Dependent	86.11%
CLC-1030	Steel fabrication	40	25	11-Apr-23 A	08-Jul-23	06-Feb-23	23-Mar-23	554	Task Dependent	37.5%
CLC-1020a	Material ordering (Other)	40	25	11-Apr-23 A	08-Jul-23	06-Feb-23	23-Mar-23	549	Task Dependent	37.5%
CLC-1050	Installation of prefabricated panel, including E&M	42	42	15-Jul-23	01-Sep-23	11-May-23	30-Jun-23	549	Task Dependent	0%
CLC-1060	Connection of electricity supply	6	6	02-Sep-23	08-Sep-23	03-Jul-23	08-Jul-23	549	Task Dependent	0%
CLC-1070	Connection of water supply	6	6	02-Sep-23	08-Sep-23	03-Jul-23	08-Jul-23	549	Task Dependent	0%
CLC-1080	Site clearance works and handover	6	6	02-Sep-23	08-Sep-23	03-Jul-23	08-Jul-23	549	Task Dependent	0%
Stage 2										
TTA no.2										
Full closure of On Kui Street for Subsequent Works										
INTS2-3040b	Necessary diversion works near the new entrance of wholesale market (for full closure of On Kui St)-Part 2	90	86	03-May-23 A	18-Sep-23	30-Mar-23	21-Jul-23	-46	Task Dependent	4.44%
Construction of Underpass (Portion H, J, K)										
INTS2-1090b	Sheet piling Bay C9 and C10 (after TTA2 Southbound)	34	34	25-Aug-23	05-Oct-23	12-May-23	21-Jun-23	-87	Task Dependent	0%
INTS2-1110	ELS and Excavation Bay C9 to C10	90	90	06-Oct-23	23-Jan-24	23-Jun-23	09-Oct-23	-87	Task Dependent	0%
UU works (Portion J)										
INTS2-1040	UU Works - Northbound of Sha Tau Kok Road (after TTA2)-Part 1	60	38	11-Apr-23 A	24-Jul-23	18-Jan-23	31-Mar-23	0	Task Dependent	36.67%
INTS2-1040a	UU Works - Northbound of Sha Tau Kok Road (after TTA2)-Part 2	60	60	25-Jul-23	04-Oct-23	01-Apr-23	16-Jun-23	0	Task Dependent	0%
INTS2-1050	UU Works - Southbound Sha Tau Kok Road (after TTA2)-Part 1	60	60	05-Oct-23	14-Dec-23	17-Jun-23	28-Aug-23	0	Task Dependent	0%
Lift Tower and Footbridge F6 (Portion J)										
Part A (Cable D)										
INTS2-3000c	F6 Column works C01, C02 & S01 (2 pier), 1WF	60	60	08-Jun-23	18-Aug-23	01-Sep-23	13-Nov-23	177	Task Dependent	0%
INTS2-3010	F6 elevation structure (C01 to C02) (KD3)	90	90	19-Aug-23	05-Dec-23	14-Nov-23	04-Mar-24	177	Task Dependent	0%
Part B (Some part After Cable D)										
INTS2-1060	Piling for Footbridge F6 (Part B2) and lift (constrainted by CLP 11kV cables), 32 nos., 2WF	64	7	05-Sep-22 A	26-Jul-23	05-Sep-22	28-Jun-23	-41	Task Dependent	89.06%
INTS2-1060a	ELS for pile cap and pier (7 locations)	90	90	27-Jul-23	11-Nov-23	29-Jun-23	14-Oct-23	-41	Task Dependent	0%
Part D										
INTS2-1080	Construction of Footbridge F6 columns P06 after TTA no.2 (6nos piles)(Part D)	24	24	08-Jun-23	07-Jul-23	20-Feb-23	18-Mar-23	117	Task Dependent	0%
INTS2-1080a	Construction of Footbridge F6 columns P06 after TTA no.2 (ELS, 1 cap, 1 column)(Part D)	66	66	08-Jul-23	22-Sep-23	20-Mar-23	10-Jun-23	117	Task Dependent	0%
Stage 3										
TTA no.3										
INTS3-0010	Design, submit, processing & approval for TTA no.3	180	158	18-Apr-23 A	14-Dec-23	20-Feb-23	26-Sep-23	64	Task Dependent	12.22%
Stormwater Pumping Station (after TTA Stage 3) (Portion H)										
Statutory Submission										
INTS3-2000	Submission and approval of WWO 542	365	365	30-Sep-23	28-Sep-24	01-Sep-23	30-Aug-24	174	Task Dependent	0%
Construction of Depressed road (Portion H & F)										
Depressed Road A										
Original Contract Design										
UTR-1030	Sheet Piling	40	1	29-Nov-22 A	08-Jun-23	29-Nov-22	06-Jan-23	110	Task Dependent	97.5%



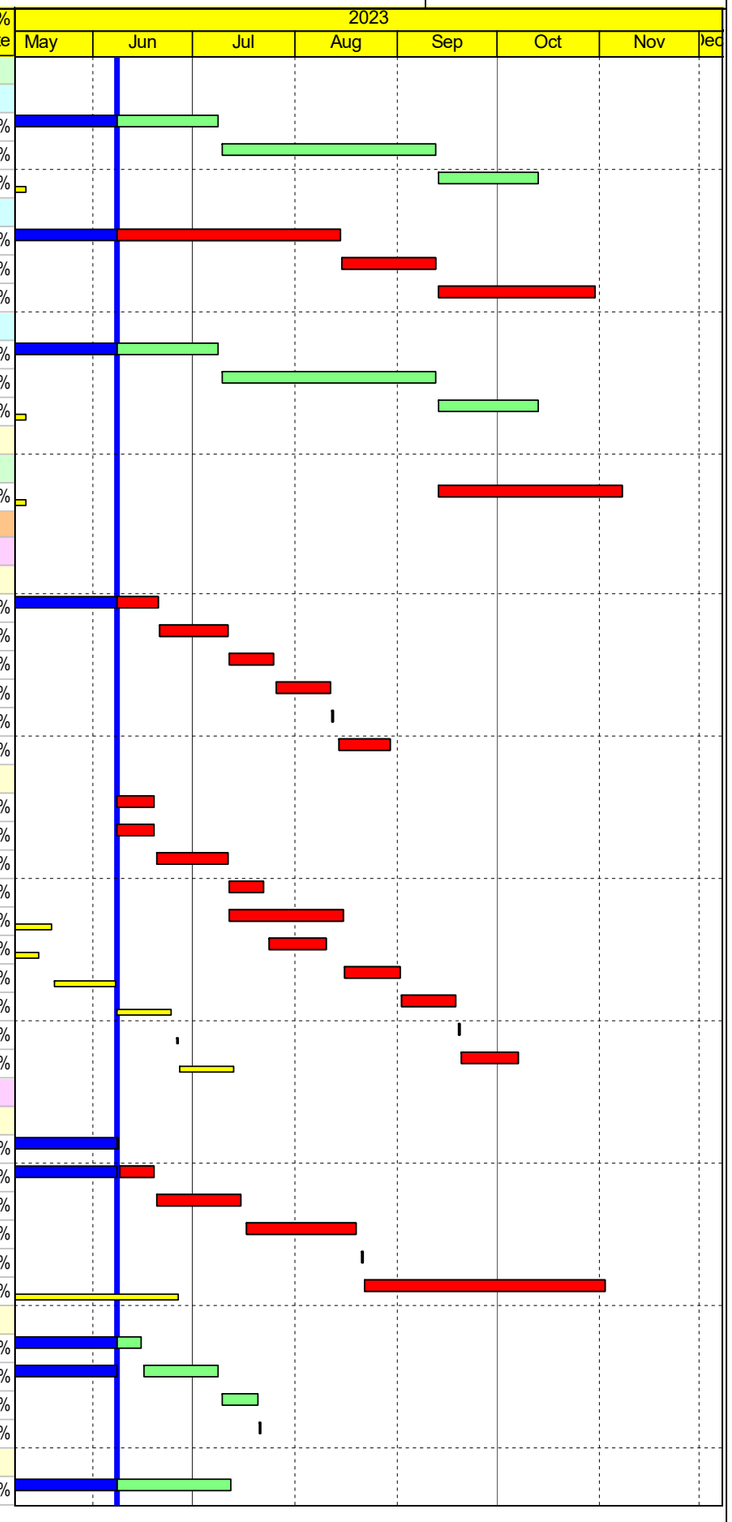
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
UTR-1030a	Excavation and ELS Installation	50	23	03-Mar-23 A	07-Jul-23	29-Sep-23	29-Nov-23	110	Task Dependent	55%
UTR-1060	Construction of U-trough A (11 bays, 15m/bay, 30d/bay,2workfronts)	165	162	25-Apr-23 A	19-Jan-24	30-Nov-23	24-Jun-24	110	Task Dependent	2%
UTR-1020	U trough A (total: 93 nos. socket-H piles, 4 day/pile, 2 workfronts)	0	0	09-Jun-23	09-Jun-23	07-Jan-23	28-Sep-23	110	Task Dependent	0%
Depressed Road B										
B1-B3										
UTR-1000a	Sheet pile installation for U-trough B (B1-B3)	60	2	13-Jun-22 A	16-Oct-23	13-Jun-22	24-Apr-23	7	Task Dependent	96.67%
UTR-1000	U trough B (27 nos. socket-H piles, 4 day/pile, 1 workfronts) for B1 to B3	108	108	08-Jun-23	16-Oct-23	08-Dec-22	24-Apr-23	-29	Task Dependent	0%
B4-B10										
UTR-1050a	ELS for U-trough B (B4 - B10, 7 bays, 2 workfronts)_Part 1 (Sheet pile)	110	4	13-Jun-22 A	19-Apr-24	13-Jun-22	11-Dec-23	-86	Task Dependent	96.36%
Remaining Works at Depressed road and Slip Road at both side of Depressed Road B										
Slip Road from Interchange to Fanling Highway										
UTR-3100	Retaining Wall FW9 (13 bays, 15d/bay,2 teams)-Part 1	50	16	08-Feb-23 A	08-Aug-23	03-Apr-23	06-Jun-23	17	Task Dependent	68%
UTR-3100a	Retaining Wall FW9 (13 bays, 15d/bay,2 teams)-Part 2	48	48	08-Aug-23	05-Oct-23	07-Jun-23	03-Aug-23	17	Task Dependent	0%
UTR-3110	UU works along FW9 (including backfilling, drainage, watermain along slip road)-Part 1	75	75	05-Oct-23	05-Jan-24	04-Aug-23	02-Nov-23	17	Task Dependent	0%
Slip Road from Fanling Highway to Interchange										
UTR-3010	FW-10(~75m, ~10bay, 15d/bay, 2 team) (before 11kV)	60	60	08-Jun-23	18-Aug-23	10-Jan-23	23-Mar-23	-119	Task Dependent	0%
Sewage Pumping Station in Portion N (After TTA2 Northbound)										
Statutory Submission										
SPS-105	Submission and approval of WWO 542	365	145	08-Aug-22 A	30-Oct-23	08-Aug-22	07-Aug-23	50	Task Dependent	60.27%
Excavation and ELS										
SPS-1009	Sheet pile installation - SP1 (82 nos) and SP2 (105 nos) @ 10 nos/d (use 2 vibro hammer)	0	0	08-Jun-23	08-Jun-23	18-Jan-23	11-Feb-23	-90	Task Dependent	0%
SPS-1010a	Install Dewatering Wells (DW1 ~ DW4) and Observation Wells (OW1 ~ OW	12	12	08-Jun-23	21-Jun-23	13-Feb-23	25-Feb-23	-90	Task Dependent	0%
SPS-1010b	Pumping Test + Report	7	7	23-Jun-23	30-Jun-23	27-Feb-23	06-Mar-23	-90	Task Dependent	0%
SPS-1010c	Submit Pumping Test Report and Obtain Consent for Excavation	7	7	03-Jul-23	10-Jul-23	07-Mar-23	14-Mar-23	-90	Task Dependent	0%
SPS-1010	Excavate (+8.70mPD to +7.35mPD) to and Install L1 ELS @ +7.850 mPD; Qty:463 m3 @ 300 m3/d)	14	14	11-Jul-23	26-Jul-23	15-Mar-23	30-Mar-23	-90	Task Dependent	0%
SPS-1010d	Excavate (+7.35mPD to +5.325mPD for Sheet Pile SP3 Installation (Approx. Vol = 695 m3 @ 300 m3/day	2	2	27-Jul-23	28-Jul-23	31-Mar-23	01-Apr-23	-90	Task Dependent	0%
SPS-1010e	Sheet Pile Installation - SP3 (41 nos @ 5 nos/day/rig (use 1 vibro hammer)	8	8	29-Jul-23	07-Aug-23	03-Apr-23	15-Apr-23	-90	Task Dependent	0%
SPS-1010f	Excavate (+5.325mPD to 4.35mPD) and Install L2 ELS at +4.850 mPD (Qty:203m3 @ 250m3/d)	10	10	08-Aug-23	18-Aug-23	17-Apr-23	27-Apr-23	-90	Task Dependent	0%
SPS-1010g	Excavate (+4.35mPD to +1.35mPD) and Install L3 ELS at +1.850 mPD; (Qty: 624m3 @ 250m3/d)	12	12	19-Aug-23	01-Sep-23	28-Apr-23	12-May-23	-90	Task Dependent	0%
SPS-1010h	Excavate (+1.35mPD to -1.65mPD) and Install L4 ELS at +1.850 mPD; (Qty: 624m3 @ 250m3/d)	12	12	02-Sep-23	15-Sep-23	13-May-23	27-May-23	-90	Task Dependent	0%
SPS-1010i	Excavate (-1.65mPD to -3.985 mPD) to FEL (Qty: 485m3 @ 175m3/d)	3	3	16-Sep-23	19-Sep-23	29-May-23	31-May-23	-90	Task Dependent	0%
Structural Works										
SPS-1030a	Construct Pump Room Base Slab (Wet Wel and Inlet Chamberl)	22	22	20-Sep-23	17-Oct-23	01-Jun-23	27-Jun-23	-90	Task Dependent	0%
Transformer Room, Switch Room										
Tx and Switch Rooms - Structures										
SPS-1020-01	Construct Base Slab for Tx Room and Switch Room	15	15	08-Aug-23	24-Aug-23	17-Apr-23	04-May-23	132	Task Dependent	0%
SPS-1020-02	Construct Wall and Columns for Tx Room and Switch Room	18	18	25-Aug-23	14-Sep-23	05-May-23	25-May-23	132	Task Dependent	0%
SPS-1020-03	Construct Roof Slab (Erect falsework, scaffolding, formworks, Rebars and Concreting)	18	18	15-Sep-23	07-Oct-23	27-May-23	16-Jun-23	132	Task Dependent	0%
ABWF and E&M Works (Remaining Parts of Sewage PS)										
SPS-1035	E&M, BS and ABWF Procurement	227	102	07-Nov-22 A	09-Oct-23	07-Nov-22	14-Aug-23	5	Task Dependent	55.07%
Reprovision of On Luk Mun Street Playground (S3)										
Sublet and Design for Skateboard Park										
OLMSP-100a	DDA (including preparation of submission and approval)	27	27	08-Jun-23	11-Jul-23	01-Feb-23	03-Mar-23	-93	Task Dependent	0%
OLMSP-100a	Mock up and other submission	73	73	12-Jul-23	06-Oct-23	04-Mar-23	03-Jun-23	-93	Task Dependent	0%
Sublet and Design for Ancillary and Services Block										



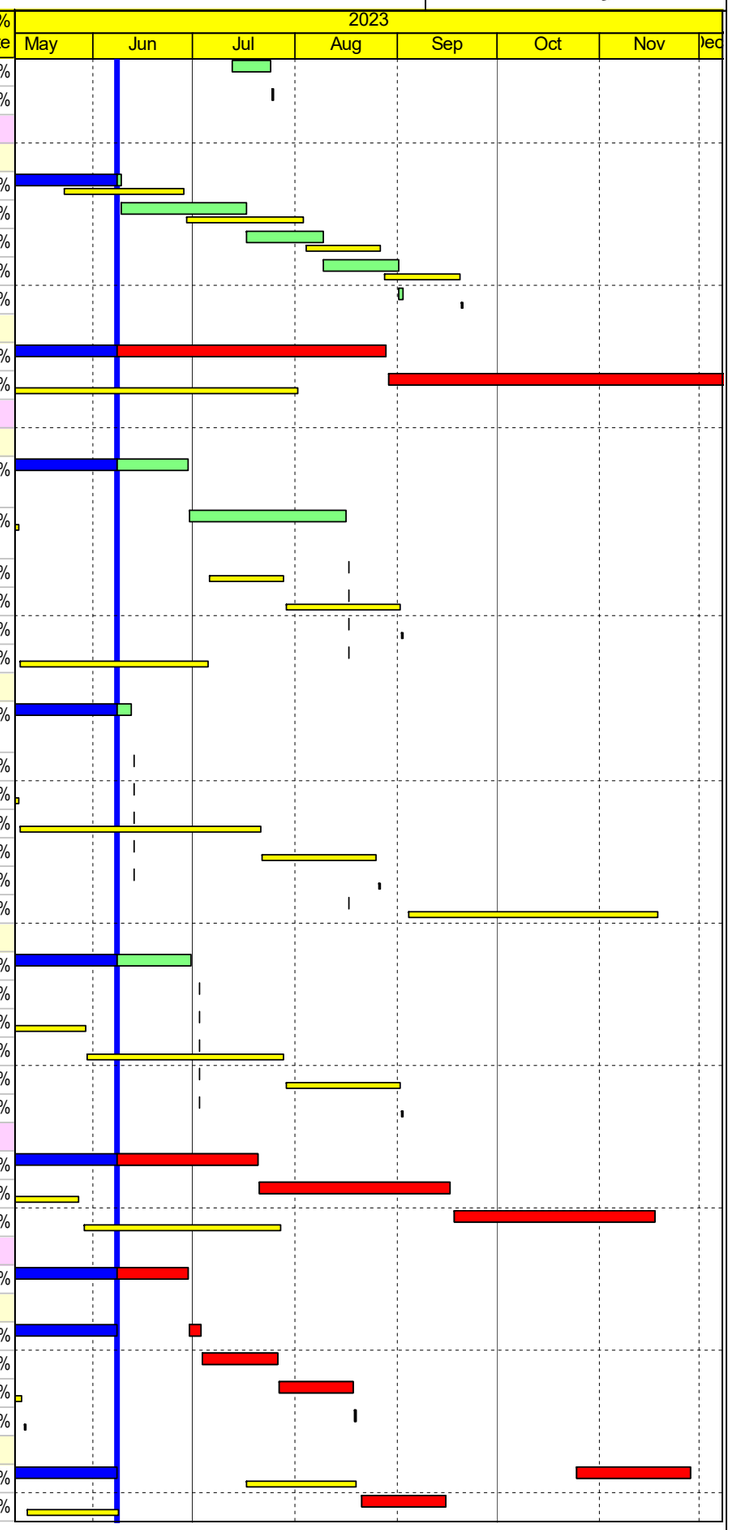
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
OLMSP-100b	Submission & Consent (ASD & LCSD)	75	7	20-Apr-23 A	14-Jun-23	20-Jan-23	04-Apr-23	-91	Task Dependent	90.67%
Works in Portion K1										
Permanent Access between Wholesale Market and STK Road										
OLMSP-500a	Construction of remaining permanent access, water main & UUs	30	20	08-Dec-22 A	03-Jul-23	08-Dec-22	14-Jan-23	29	Task Dependent	33.33%
OLMSP-500b	Dismantle existing water main supply to wholesale market (for subsequent construction of Depressed Rd B - Bay 4-10)	30	30	04-Jul-23	07-Aug-23	16-Jan-23	22-Feb-23	29	Task Dependent	0%
New Skateboard Park										
Site Formation and UUs										
OLMSP-10	Site formation , UUs and drainage within the park	90	6	08-Dec-22 A	14-Jun-23	08-Dec-22	29-Mar-23	1	Task Dependent	93.33%
Construction of Skateboard Park (by California)										
OLMSP-10	Rough grading and drainage	25	25	07-Oct-23	06-Nov-23	05-Jun-23	05-Jul-23	-93	Task Dependent	0%
Landscape, T&C and FS Inspection										
OLMSP-10	Landscaping Softworks with acceptance by clients (S3)	55	55	21-Jul-23	22-Sep-23	06-Apr-23	14-Jun-23	-9	Task Dependent	0%
OLMSP-10	Establishment works	365	365	23-Sep-23	21-Sep-24	15-Jun-23	13-Jun-24	-10	Task Dependent	0%
Ancillary Block & Service Block and other facility										
OLMSP-1210	Excavation and laying underground duct for buildings and park	30	6	08-Dec-22 A	14-Jun-23	08-Dec-22	14-Jan-23	-101	Task Dependent	80%
OLMSP-1220	Backfilling for playground/Ancillary block and Service block	30	30	14-Jun-23	20-Jul-23	14-Jan-23	21-Feb-23	-101	Task Dependent	0%
OLMSP-123	Construction of Service Block (Foundation)	21	21	15-Jun-23	11-Jul-23	06-Apr-23	04-May-23	-3	Task Dependent	0%
OLMSP-124	Construction of Ancillary Block (Foundation)	21	21	15-Jun-23	11-Jul-23	06-Apr-23	04-May-23	-3	Task Dependent	0%
OLMSP-1240	Construction of Ancillary Block (Fabrication)	90	90	15-Jun-23	29-Sep-23	06-Apr-23	27-Jul-23	-72	Task Dependent	0%
OLMSP-1230	Construction of Service Block (Fabrication)	90	90	21-Jul-23	06-Nov-23	06-Apr-23	27-Jul-23	-101	Task Dependent	0%
OLMSP-124	Construction of Ancillary Block (Installation)	20	20	03-Oct-23	26-Oct-23	28-Jul-23	19-Aug-23	-72	Task Dependent	0%
Material Submissions (MEP)										
OLMSP-25	Material Submissions & Shop Drawings - MVAC	78	6	14-Nov-22 A	13-Jun-23	14-Nov-22	13-Feb-23	24	Task Dependent	92.31%
OLMSP-25	Material Submissions & Shop Drawings - FS	78	6	14-Nov-22 A	13-Jun-23	14-Nov-22	13-Feb-23	24	Task Dependent	92.31%
OLMSP-25	Material Submissions & Shop Drawings - Pumping and Drainage	78	6	14-Nov-22 A	13-Jun-23	14-Nov-22	13-Feb-23	24	Task Dependent	92.31%
OLMSP-25	Material Submissions & Shop Drawings - Electrical	78	6	14-Nov-22 A	13-Jun-23	14-Nov-22	13-Feb-23	24	Task Dependent	92.31%
Works in Portion P										
OLMSP-1050	Retaining Wall FW10 (around 75m, 10 bays,15d/bay) and other facilities-Part 1	15	15	08-Jun-23	26-Jun-23	29-Dec-23	14-Feb-24	92	Task Dependent	0%
OLMSP-1050a	Retaining Wall FW10 (around 75m, 10 bays,15d/bay) and other facilities-Part 2	38	38	27-Jun-23	10-Aug-23	15-Feb-24	02-Apr-24	92	Task Dependent	0%
OLMSP-1100	Backfilling work to Retaining Wall FW10 & remaining area (between abutment (by Contract C5) and Depressed road B)	60	60	11-Aug-23	21-Oct-23	03-Apr-24	15-Jun-24	92	Task Dependent	0%
Temporary Skateboard Park Scheme										
OLMSP-2560	Operation of Temporary Skateboard Park	136	136	08-Jun-23*	21-Oct-23	01-Apr-23	13-Sep-23	142	Task Dependent	0%
OLMSP-2570	Time Risk Allowance	136	136	08-Jun-23	21-Oct-23	01-Apr-23	13-Sep-23	142	Task Dependent	0%
Reprovision of Public Toilet and Refuse Collection Point (S6)										
PTRCP-1010	Delivery of Mic Units	30	30	08-Jun-23	14-Jul-23	02-Feb-23	08-Mar-23	-62	Task Dependent	0%
PTRCP-2000	Retaining Wall FW10 (70m, 10 bays)	60	60	08-Jun-23	18-Aug-23	10-Jan-23	23-Mar-23	-119	Task Dependent	0%
PTRCP-1020	Minor TTA after TTA Stage 2 and Portion P retaining wall	30	30	15-Jul-23	18-Aug-23	09-Mar-23	17-Apr-23	-62	Task Dependent	0%
PTRCP-2000a	Footing of NB34 (60m, 6 bays)	60	60	08-Aug-23	18-Oct-23	13-Mar-23	27-May-23	-119	Task Dependent	0%
Works in Portion A and Portion B (KD5)										
Portion A										
OTH-A-1020	Works at north part (Stage 3)	70	5	21-Oct-22 A	13-Jun-23	21-Oct-22	13-Jan-23	-113	Task Dependent	92.86%
OTH-A-5000	Noise barrier 91- Footing (Stage 1)	56	23	11-Apr-23 A	12-Jul-23	14-Jan-23	23-Mar-23	406	Task Dependent	58.93%
OTH-A-2000	Works at south part (Stage 1)	70	70	14-Jun-23	05-Sep-23	14-Jan-23	13-Apr-23	-113	Task Dependent	0%
OTH-A-5010	Noise barrier 91 - Footing (Stage 2)	56	56	13-Jul-23	15-Sep-23	24-Mar-23	03-Jun-23	406	Task Dependent	0%
OTH-A-2010	Works at south part (Stage 2)	70	70	06-Sep-23	29-Nov-23	14-Apr-23	08-Jul-23	-113	Task Dependent	0%
OTH-A-5020	Noise barrier 91 - Steel post works (29 nos)	87	87	16-Sep-23	02-Jan-24	05-Jun-23	15-Sep-23	406	Task Dependent	0%
Portion B										
South Part of L3 Road										



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
	Southbound									
	CL200 to CL250 including footpath & slope									
OTH-B-2010	Backfilling for watermain	25	25	29-Dec-22 A	08-Jul-23	29-Dec-22	31-Jan-23	123	Task Dependent	0%
OTH-B-2020	Watermain	56	56	10-Jul-23	12-Sep-23	01-Feb-23	11-Apr-23	123	Task Dependent	0%
OTH-B-2030	Backfilling for UUs	25	25	13-Sep-23	13-Oct-23	12-Apr-23	11-May-23	123	Task Dependent	0%
	From Ma Sik rd to CL200 (Road Section)									
OTH-B-4030	Footing of NB52	45	56	16-Dec-22 A	14-Aug-23	16-Dec-22	13-Feb-23	-105	Task Dependent	0%
OTH-B-4040	Backfilling for drainage works	25	25	15-Aug-23	12-Sep-23	14-Feb-23	14-Mar-23	-105	Task Dependent	0%
OTH-B-4050	Drainage works	38	38	13-Sep-23	30-Oct-23	15-Mar-23	03-May-23	-105	Task Dependent	0%
	From Ma Sik rd to CL200 (Footpath Section & slope)									
OTH-B-3000	Backfilling for watermain	25	25	29-Dec-22 A	08-Jul-23	29-Dec-22	31-Jan-23	123	Task Dependent	0%
OTH-B-3010	Watermain	56	56	10-Jul-23	12-Sep-23	01-Feb-23	11-Apr-23	123	Task Dependent	0%
OTH-B-3020	Backfilling for UUs	25	25	13-Sep-23	13-Oct-23	12-Apr-23	11-May-23	123	Task Dependent	0%
	North Part of L3 Road									
	Southbound									
OTH-B-6000	ELS for drainage works	45	45	13-Sep-23	07-Nov-23	15-Mar-23	11-May-23	-105	Task Dependent	0%
	Works within Portions Q, R, S,T, U, V, X and Y (S4)									
	Portion R									
	Stage 4 (Area 3)									
OTH-1044-1b	Relocate gully	12	11	23-Dec-22 A	20-Jun-23	23-Dec-22	09-Jan-23	-17	Task Dependent	8.33%
OTH-1044-1d	Construct pedestrain crossing and road kerb	16	16	21-Jun-23	11-Jul-23	30-Jan-23	16-Feb-23	-17	Task Dependent	0%
OTH-1044-1e	Construct street furniture	12	12	12-Jul-23	25-Jul-23	17-Feb-23	02-Mar-23	-17	Task Dependent	0%
OTH-1044-1f	Construct carriageway pavement	15	15	26-Jul-23	11-Aug-23	03-Mar-23	20-Mar-23	-17	Task Dependent	0%
OTH-1044-1g	Road marking	1	1	12-Aug-23	12-Aug-23	21-Mar-23	21-Mar-23	-17	Task Dependent	0%
OTH-1044-1h	Enabling traffic signal system	14	14	14-Aug-23	29-Aug-23	22-Mar-23	11-Apr-23	-17	Task Dependent	0%
	Stage 5 (Area 2, after Stage 3)									
OTH-1045-1	Install temporary lighting system	10	10	08-Jun-23	19-Jun-23	09-Mar-23	20-Mar-23	-49	Task Dependent	0%
OTH-1045-1a	Install temporary traffic signal system	10	10	08-Jun-23	19-Jun-23	09-Mar-23	20-Mar-23	-49	Task Dependent	0%
OTH-1045-1b	Demolish centre divider	17	17	20-Jun-23	11-Jul-23	21-Mar-23	13-Apr-23	-49	Task Dependent	0%
OTH-1045-1d	Relocate traffic signal post	10	10	12-Jul-23	22-Jul-23	14-Apr-23	25-Apr-23	-30	Task Dependent	0%
OTH-1045-1c	Construct new centre divider, relocate lighting	30	30	12-Jul-23	15-Aug-23	14-Apr-23	19-May-23	-49	Task Dependent	0%
OTH-1045-1e	Construct pedestrain crossing	16	16	24-Jul-23	10-Aug-23	26-Apr-23	15-May-23	-30	Task Dependent	0%
OTH-1045-1f	Construct carriageway pavement	15	15	16-Aug-23	01-Sep-23	20-May-23	07-Jun-23	-49	Task Dependent	0%
OTH-1045-1g	Enabling public lighting	14	14	02-Sep-23	18-Sep-23	08-Jun-23	24-Jun-23	-49	Task Dependent	0%
OTH-1045-1h	Road marking	1	1	19-Sep-23	19-Sep-23	26-Jun-23	26-Jun-23	-49	Task Dependent	0%
OTH-1045-1i	Enabling traffic system	14	14	20-Sep-23	07-Oct-23	27-Jun-23	13-Jul-23	-49	Task Dependent	0%
	Portion Q									
	Area 1									
OTH-1031b	Site formation works, ELSW, RW40 (Bay 4-7) and backfill	80	1	08-Jul-22 A	08-Jun-23	08-Jul-22	03-Jan-23	-10	Task Dependent	98.75%
OTH-1031c	Site formation works, ELSW, RW40 (Bay 1-3) and backfill	60	9	08-Sep-22 A	19-Jun-23	08-Sep-22	14-Jan-23	-10	Task Dependent	85%
OTH-1031e	Construct new pavement at carriageway, reinstate cycle track	21	21	20-Jun-23	15-Jul-23	08-Feb-23	03-Mar-23	-10	Task Dependent	0%
OTH-1031f	Street furniture	30	30	17-Jul-23	19-Aug-23	04-Mar-23	12-Apr-23	-10	Task Dependent	0%
OTH-1031g	Road marking	1	1	21-Aug-23	21-Aug-23	13-Apr-23	13-Apr-23	-10	Task Dependent	0%
OTH-1031h	Overall resurfacing	60	60	22-Aug-23	02-Nov-23	14-Apr-23	26-Jun-23	-10	Task Dependent	0%
	Area 2									
OTH-1032a	Demolish existing pavement, relocate gully	21	7	13-Jul-22 A	15-Jun-23	13-Jul-22	30-Dec-22	16	Task Dependent	66.67%
OTH-1032b	Construct new pavement at carriageway, reinstate public lighting	21	18	30-Jul-22 A	08-Jul-23	30-Jul-22	21-Jan-23	16	Task Dependent	14.29%
OTH-1032c	Relocate traffic signal post	10	10	10-Jul-23	20-Jul-23	26-Jan-23	06-Feb-23	16	Task Dependent	0%
OTH-1032d	Road marking	1	1	21-Jul-23	21-Jul-23	07-Feb-23	07-Feb-23	16	Task Dependent	0%
	Area 3									
OTH-1033	Modify existing pavement traffic island	28	28	08-Dec-22 A	12-Jul-23	08-Dec-22	12-Jan-23	13	Task Dependent	0%



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
OTH-1033a	Relocate traffic signal post	10	10	13-Jul-23	24-Jul-23	13-Jan-23	27-Jan-23	13	Task Dependent	0%
OTH-1033b	Road marking	1	1	25-Jul-23	25-Jul-23	28-Jan-23	28-Jan-23	13	Task Dependent	0%
Portion U										
Area 2										
OTH-1070-2a	Demolish existing central divider	30	2	03-Mar-23 A	09-Jun-23	23-May-23	28-Jun-23	40	Task Dependent	95%
OTH-1070-2b	Construct new central divider	30	30	09-Jun-23	17-Jul-23	29-Jun-23	03-Aug-23	40	Task Dependent	0%
OTH-1070-2c	Relocate public lighting	20	20	17-Jul-23	09-Aug-23	04-Aug-23	26-Aug-23	40	Task Dependent	0%
OTH-1070-2d	Relocate traffic signal post	20	20	09-Aug-23	01-Sep-23	28-Aug-23	19-Sep-23	40	Task Dependent	0%
OTH-1070-2e	Road marking	1	1	01-Sep-23	02-Sep-23	20-Sep-23	20-Sep-23	40	Task Dependent	0%
Area 3										
OTH-1070-3a	Construct retaining wall and top slab (Part 1)	90	68	19-Dec-22 A	28-Aug-23	19-Dec-22	13-Apr-23	-136	Task Dependent	24.44%
OTH-1070-3b	Construct retaining wall and top slab (Part 2)	90	90	29-Aug-23	14-Dec-23	14-Apr-23	01-Aug-23	-136	Task Dependent	0%
Portion S										
Area 1										
OTH-1050-1b	Site formation, retaining wall, extension of subway, stairway, relocate fire hydrant (Part 2)	40	18	29-Apr-23 A	29-Jun-23	31-Jan-23	17-Mar-23	54	Task Dependent	55%
OTH-1050-1c	Site formation, retaining wall, extension of subway, stairway, relocate fire hydrant (Part 3)	40	40	30-Jun-23	16-Aug-23	18-Mar-23	09-May-23	54	Task Dependent	0%
OTH-1050-1e	Relocate traffic signal post	0	0	17-Aug-23	17-Aug-23	06-Jul-23	28-Jul-23	54	Task Dependent	0%
OTH-1050-1f	Street furniture	0	0	17-Aug-23	17-Aug-23	29-Jul-23	01-Sep-23	54	Task Dependent	0%
OTH-1050-1g	Road marking	0	0	17-Aug-23	17-Aug-23	02-Sep-23	02-Sep-23	54	Task Dependent	0%
OTH-1050-1d	Set back road kerb and relocate gully	0	0	17-Aug-23	17-Aug-23	10-May-23	05-Jul-23	54	Task Dependent	0%
Area 2										
OTH-1050-2b	Site formation, retaining wall, relocate fire hydrant, relocate public lighting (Part 2)	0	4	12-Apr-23 A	12-Jun-23	10-Jan-23	10-Feb-23	108	Task Dependent	0%
OTH-1050-2c	Relocate traffic signal post	0	0	13-Jun-23	13-Jun-23	11-Feb-23	06-Mar-23	108	Task Dependent	0%
OTH-1050-2d	Set back road kerb and relocate gully	0	0	13-Jun-23	13-Jun-23	07-Mar-23	09-May-23	108	Task Dependent	0%
OTH-1050-2e	Set back existing traffic island	0	0	13-Jun-23	13-Jun-23	10-May-23	21-Jul-23	108	Task Dependent	0%
OTH-1050-2f	Street furniture	0	0	13-Jun-23	13-Jun-23	22-Jul-23	25-Aug-23	108	Task Dependent	0%
OTH-1050-2g	Road marking	0	0	13-Jun-23	13-Jun-23	26-Aug-23	26-Aug-23	108	Task Dependent	0%
OTH-1050-2h	Overall resurfacing	0	0	17-Aug-23	17-Aug-23	04-Sep-23	18-Nov-23	54	Task Dependent	0%
Area 3										
OTH-1050-3a	Demolish existing central divider (Part 1)	0	19	08-Dec-22 A	30-Jun-23	08-Dec-22	02-Feb-23	93	Task Dependent	0%
OTH-1050-3b	Demolish existing central divider (Part 2)	0	0	03-Jul-23	03-Jul-23	03-Feb-23	24-Mar-23	93	Task Dependent	0%
OTH-1050-3c	Construct new central divider (Part 1)	0	0	03-Jul-23	03-Jul-23	25-Mar-23	29-May-23	93	Task Dependent	0%
OTH-1050-3d	Construct new central divider (Part 2)	0	0	03-Jul-23	03-Jul-23	30-May-23	28-Jul-23	93	Task Dependent	0%
OTH-1050-3e	Relocate public lighting	0	0	03-Jul-23	03-Jul-23	29-Jul-23	01-Sep-23	93	Task Dependent	0%
OTH-1050-3f	Road marking	0	0	03-Jul-23	03-Jul-23	02-Sep-23	02-Sep-23	93	Task Dependent	0%
Portion X										
OTH-2030	Site formation, retaining wall, modify subway, relocate public lighting (Part 1)	50	35	09-Apr-23 A	20-Jul-23	21-Jan-23	23-Mar-23	-124	Task Dependent	30%
OTH-2030a	Site formation, retaining wall, modify subway, relocate public lighting (Part 2)	50	50	21-Jul-23	16-Sep-23	24-Mar-23	27-May-23	-124	Task Dependent	0%
OTH-2030b	Site formation, retaining wall, modify subway, relocate public lighting (Part 3)	50	50	18-Sep-23	17-Nov-23	29-May-23	27-Jul-23	-124	Task Dependent	0%
Portion V,Y										
OTH-1075	TTA application for Portion VY	209	18	27-Apr-22 A	29-Jun-23	27-Apr-22	30-Jan-23	-83	Task Dependent	91.39%
Area 1										
OTH-1080-1a1	UU lowering (by others)	11	2	30-Jan-23 A	03-Jul-23	07-Mar-23	18-Mar-23	-83	Task Dependent	81.82%
OTH-1080-1b	Construct new pavement at carriageway, reinstate public lighting	20	20	04-Jul-23	26-Jul-23	20-Mar-23	15-Apr-23	-83	Task Dependent	0%
OTH-1080-1c	Street furniture	20	20	27-Jul-23	18-Aug-23	17-Apr-23	10-May-23	-83	Task Dependent	0%
OTH-1080-1d	Road marking	1	1	19-Aug-23	19-Aug-23	11-May-23	11-May-23	-83	Task Dependent	0%
Area 2										
OTH-1080-2c	Demolish existing central divider	30	30	04-Feb-23 A	28-Nov-23	17-Jul-23	19-Aug-23	-83	Task Dependent	0%
OTH-1080-2a	Demolish existing traffic island	23	23	21-Aug-23	15-Sep-23	12-May-23	08-Jun-23	-83	Task Dependent	0%



Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Project ID: RP-RP05-1-MU05-2023

Three Months Rolling Programme (08 June 2023 to 30 September 2023)

Data Date: 08-Jun-23
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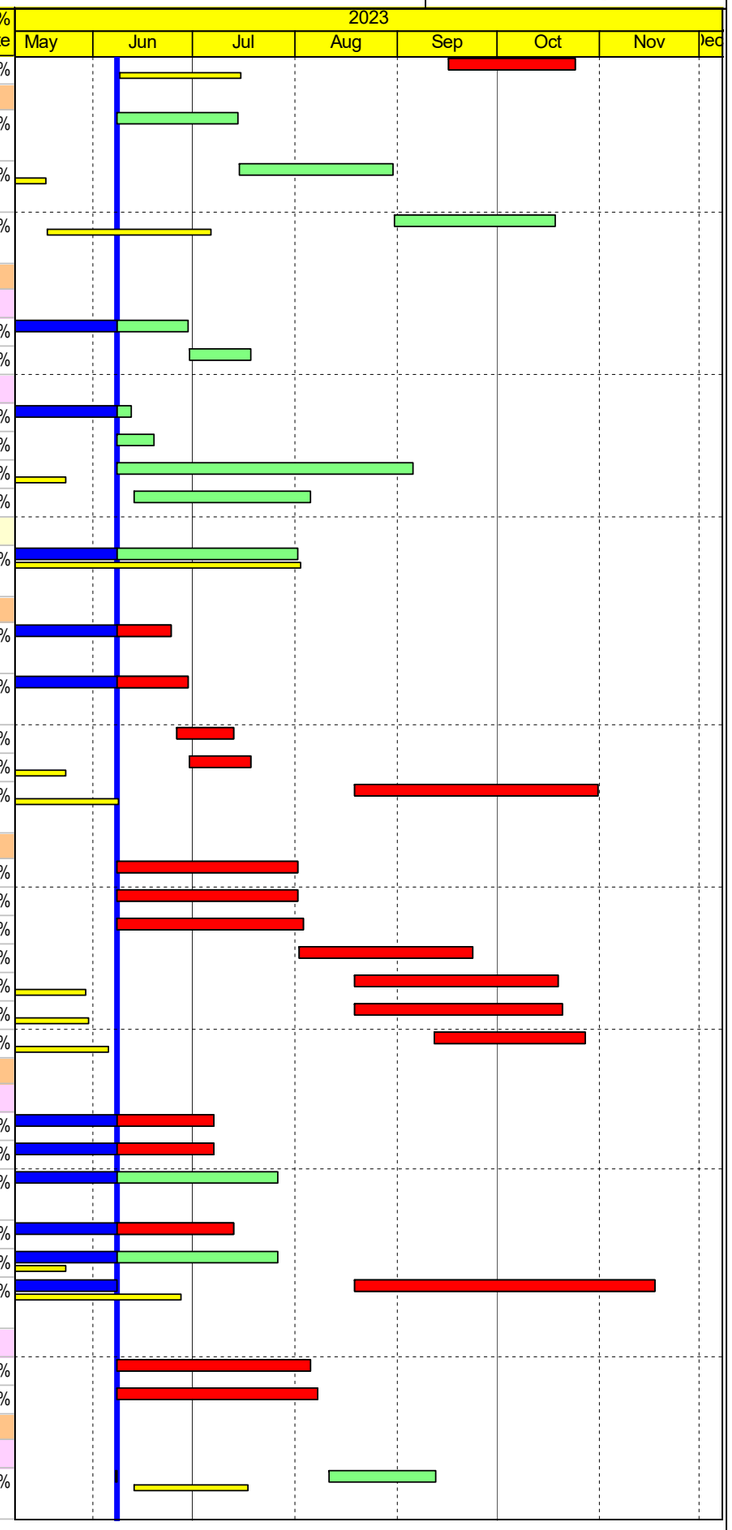
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP05

Date	Revision	Ch...	Approved
08-Jun-23	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
OTH-1080-2b	Construct new traffic island	30	30	16-Sep-23	24-Oct-23	09-Jun-23	15-Jul-23	-83	Task Dependent	0%
Junction improvement works at Portion J (S4)										
OTH-2020	Relocation of Traffic System- Siu Wan Road Junctional works (tree felling and site clearance)	30	30	08-Jun-23	14-Jul-23	20-Feb-23	25-Mar-23	2	Task Dependent	0%
OTH-2020a	Relocation of Traffic System- Siu Wan Road Junctional works (road realignment)	40	40	15-Jul-23	30-Aug-23	27-Mar-23	17-May-23	2	Task Dependent	0%
OTH-2020b	Relocation of Traffic System- Siu Wan Road Junctional works (paving works etc)	40	40	31-Aug-23	18-Oct-23	18-May-23	06-Jul-23	2	Task Dependent	0%
CLP 132kV and 11kV Cable Works at Bridge and interchange area										
Cable B (Green) Fanling to Louhu Circuit 132KV- by CLP (Bridge A2,A3 and interchange)										
CLP-2030	Diversion of CLP 200m cable B4 (At portion H,J)	60	18	08-Dec-21 A	29-Jun-23	08-Dec-21	14-Mar-23	46	Task Dependent	70%
CLP-2060	Abandon of Cable B (At portion C,G,H,J,K,L) (Interchange area)	15	15	30-Jun-23	18-Jul-23	15-Mar-23	31-Mar-23	46	Task Dependent	0%
Cable D (Blue) Fanling- Ping Che Circuit 132KV- by CLP (Bridge A3 and Interchange Area)										
CLP-4005	Diversion of CLP 163m cable D1 (At portion H)(outside Underpass)	50	4	08-Dec-22 A	12-Jun-23	08-Dec-22	10-Feb-23	84	Task Dependent	92%
CLP-4010a	Diversion of CLP 270m cable D2 (At portion I,J,N)-at STK Rd (after TTA 2)	10	10	08-Jun-23	19-Jun-23	20-Feb-23	02-Mar-23	123	Task Dependent	0%
CLP-4020	Diversion of CLP 180m cable D3 -after TTA 2	75	75	08-Jun-23	05-Sep-23	20-Feb-23	23-May-23	58	Task Dependent	0%
CLP-4000	Diversion of CLP 163m cable D1 (At portion H)(after C5 to C8)	45	45	13-Jun-23	05-Aug-23	11-Feb-23	04-Apr-23	84	Task Dependent	0%
Temporary Diversion Scheme (CLP 132 Ping Che Line)										
CLP-4120	Ducting works, cabling works and change-over for CLP temporary diversion (by CLP)	144	45	30-Dec-22 A	01-Aug-23	07-Feb-23	02-Aug-23	34	Task Dependent	68.75%
CLP 11kV Cables works at Interchange area (tentative scheme)										
CLP-5010	Laying new 11kV cables(255m) F6 & underpass area (Portion J/H)(after C5 to C8)	60	14	08-Dec-22 A	24-Jun-23	08-Dec-22	22-Feb-23	-17	Task Dependent	76.67%
CLP-5050	Laying new 11kV cables(400m) at STK Road and MS Road (portion J)(after TTA 2)	60	18	18-Apr-23 A	29-Jun-23	20-Feb-23	05-May-23	-41	Task Dependent	70%
CLP-5020	Abandon 11kV cables in F6 & underpass area (portion K/H) (after C5 to C8)	15	15	26-Jun-23	13-Jul-23	23-Feb-23	11-Mar-23	-17	Task Dependent	0%
CLP-5060	Abandon 11kV cables at STK Rad and MS Road (portion J)	15	15	30-Jun-23	18-Jul-23	06-May-23	23-May-23	-41	Task Dependent	0%
CLP-5030	Laying new 11kV cables(520m) F6 & underpass & U-Through B area (portion K)	60	60	19-Aug-23	31-Oct-23	24-Mar-23	08-Jun-23	-80	Task Dependent	0%
Towngas (By others)										
TG-1000	IPA gas main laying (after C5 to C8)	45	45	08-Jun-23	01-Aug-23	08-Dec-22	04-Feb-23	-33	Task Dependent	0%
TG-1010	MP gas main laying-stage 1 (after C5 to C8)	45	45	08-Jun-23	01-Aug-23	08-Dec-22	04-Feb-23	-93	Task Dependent	0%
TG-1040	LBG gas main laying-stage 1 (after C5 to C8)	47	47	08-Jun-23	03-Aug-23	08-Dec-22	07-Feb-23	-86	Task Dependent	0%
TG-1020	MP gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	46	46	02-Aug-23	23-Sep-23	06-Feb-23	30-Mar-23	-93	Task Dependent	0%
TG-1060	LBG gas main laying-stage 3 (Portion P, near Playground)	51	51	19-Aug-23	19-Oct-23	24-Mar-23	29-May-23	-56	Task Dependent	0%
TG-1030	MP gas main laying-stage 3 (Portion P, near Playground)	52	52	19-Aug-23	20-Oct-23	24-Mar-23	30-May-23	-57	Task Dependent	0%
TG-1050	LBG gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	37	37	12-Sep-23	27-Oct-23	21-Apr-23	05-Jun-23	-119	Task Dependent	0%
Telecom (By others)										
HGC/HKBN/HKBNESHK/PCCW										
TL-1000	HGC/HKBN/HKBNES/PCCW diversion -stage 1 (after C5-C8)	50	24	11-Apr-23 A	07-Jul-23	08-Dec-22	10-Feb-23	-12	Task Dependent	52%
TL-1040	PCCW diversion-stage 5 (near the toilet and RCP)	50	24	11-Apr-23 A	07-Jul-23	08-Dec-22	10-Feb-23	-26	Task Dependent	52%
TL-1020	HGC/HKBN/HKBNES/PCCW diversion -stage 3 (after RW9, near existing market and new playground)	100	40	11-Apr-23 A	26-Jul-23	08-Dec-22	14-Apr-23	9	Task Dependent	60%
TL-1010	HGC/HKBN/HKBNES/PCCW diversion -stage 2 (after TTA)	49	29	18-Apr-23 A	13-Jul-23	20-Feb-23	21-Apr-23	-17	Task Dependent	40.82%
TL-1030	HGC/HKBN/HKBNES/PCCW diversion -stage 4 (near Portion M)	75	40	18-Apr-23 A	26-Jul-23	20-Feb-23	23-May-23	9	Task Dependent	46.67%
TL-1050	PCCW diversion-stage 6 (near the On Luk Min St playground, assume access is granted on 1 Aug 22)	75	75	08-May-23 A	17-Nov-23	24-Mar-23	27-Jun-23	-86	Task Dependent	0%
Towngas/telecom										
TL-3010	HGC/HKBN/HKBNES diversion -stage 2 (after TTA)	49	49	08-Jun-23	05-Aug-23	20-Feb-23	21-Apr-23	-37	Task Dependent	0%
TL-3000	Towngas telecom diversion -stage 1 (after C5 to C8)	50	50	08-Jun-23	07-Aug-23	08-Dec-22	10-Feb-23	-38	Task Dependent	0%
Bridge F(MS)										
Stage 6 Falsework Erection and Abutment Construction in N.side										
BWFW-6000e	Replace bearing with permanent bearing at F-04 (after decking btw F-03 and F-04 completed)	28	28	08-Jun-23 A	12-Sep-23	13-Jun-23	17-Jul-23	546	Task Dependent	0%



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Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Project ID: RP-RP05-1-MU05-2023

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Baseline Programme RP05

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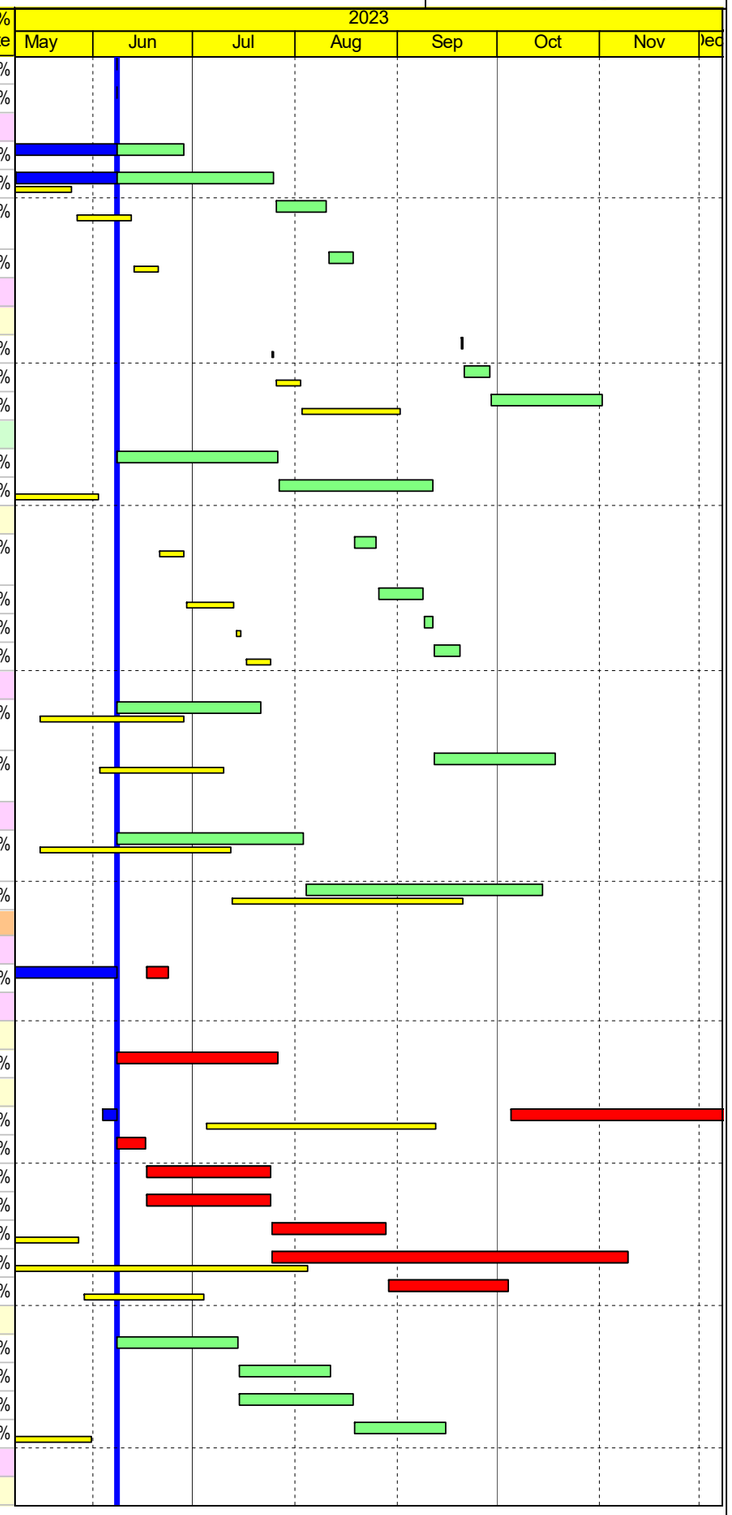
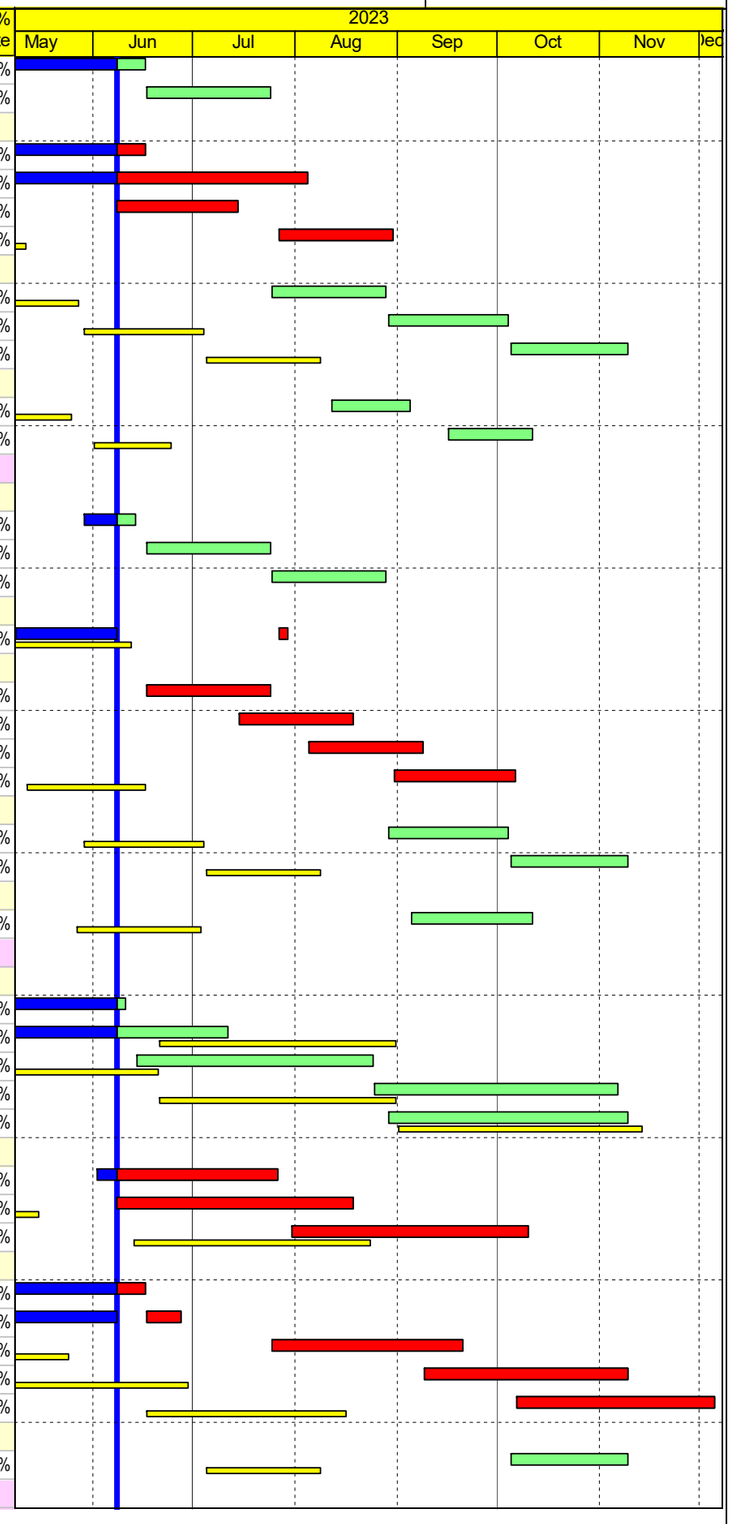
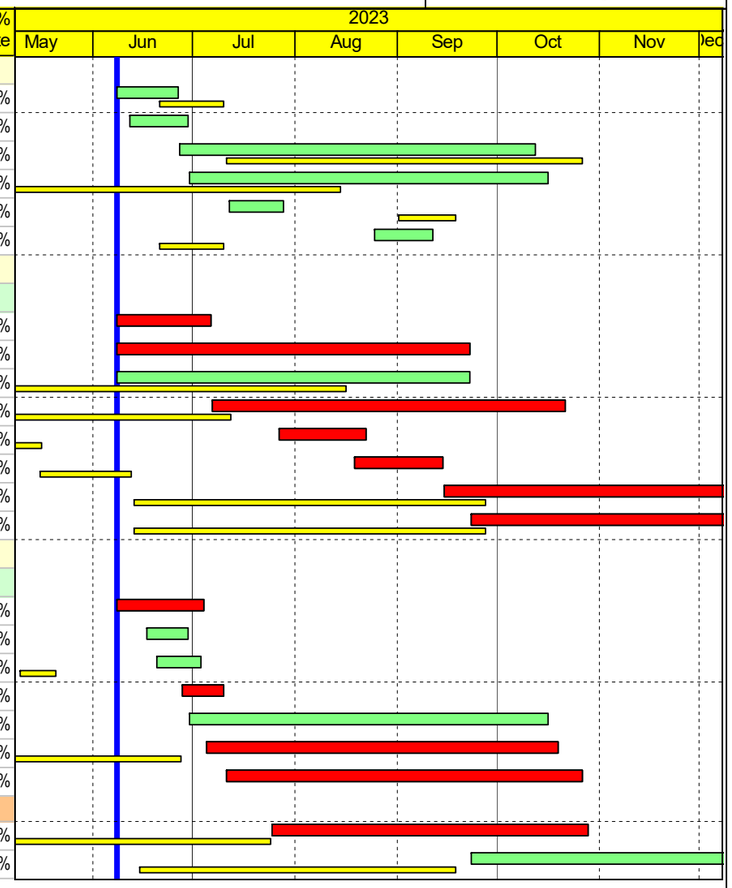
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
BWFW-6000d	Bearing installation at F-04 (Temporary bearing)	0	0	08-Jun-23	08-Jun-23	08-Feb-23	21-Feb-23	243	Task Dependent	0%
BWFW-6000b	Submission and approval of temporary bearing	0	0	08-Jun-23	08-Jun-23	08-Oct-22	07-Feb-23	243	Task Dependent	0%
Stage 7 Bridge Deck Construction & Formation work ard abutment in N.side										
BWFW-7020a	Submission and approval of post tension method statement and material	90	17	08-Dec-22 A	28-Jun-23	08-Dec-22	29-Mar-23	265	Task Dependent	81.11%
BWFW-7020	Bridge deck construction between pier F-03 and abt F-04M	53	39	09-May-23 A	25-Jul-23	20-Mar-23	25-May-23	243	Task Dependent	26.42%
BWFW-7030	Post tensioning slab tendons (include 7 days for required concrete strength) F-03 to F-04M	14	14	26-Jul-23	10-Aug-23	27-May-23	12-Jun-23	243	Task Dependent	0%
BWFW-7040	Remove false work	7	7	11-Aug-23	18-Aug-23	13-Jun-23	20-Jun-23	243	Task Dependent	0%
Stage 8 Cofferdam modification and Formation in Both sides										
South side										
BWFW-8040	Set up a silt curtain in the river to F-02 Area	1	1	20-Sep-23	20-Sep-23	25-Jul-23	25-Jul-23	312	Task Dependent	0%
BWFW-8050	Form a site access to riverbed at pier F-02	7	7	21-Sep-23	28-Sep-23	26-Jul-23	02-Aug-23	312	Task Dependent	0%
BWFW-8060	Set up a row of cofferdam in river to enclose pier F-02 area	26	26	29-Sep-23	01-Nov-23	03-Aug-23	01-Sep-23	312	Task Dependent	0%
New scheme in wet season										
BWFW-808(	Install decking for bored piling at Pier F-02 (Stage 1)	40	40	08-Jun-23 A	26-Jul-23	23-Feb-23	14-Apr-23	112	Task Dependent	0%
BWFW-808(	Install decking for bored piling at Pier F-02 (Stage 2)	40	40	27-Jul-23	11-Sep-23	15-Apr-23	02-Jun-23	112	Task Dependent	0%
North side										
BWFW-8000	Shift the cofferdam toward the current slope toe, reinstall geotextile and silt curtain inside and outside the cofferdam	6	6	19-Aug-23	25-Aug-23	21-Jun-23	28-Jun-23	312	Task Dependent	0%
BWFW-8010	Excavate the slope to riverbed level	12	12	26-Aug-23	08-Sep-23	29-Jun-23	13-Jul-23	312	Task Dependent	0%
BWFW-8020	Apply a layer of concrete screeding to the exposed surface	2	2	09-Sep-23	11-Sep-23	14-Jul-23	15-Jul-23	312	Task Dependent	0%
BWFW-8030	Remove the cofferdam	7	7	12-Sep-23	19-Sep-23	17-Jul-23	24-Jul-23	312	Task Dependent	0%
Stage 9 Piling works for pier F-02 and abutment F-01M in S.side										
BWFW-9030a	Interface coring, sonic test, and grouting for bored pile construction at abutment F-01M	36	36	08-Jun-23	21-Jul-23	16-May-23	28-Jun-23	209	Task Dependent	0%
BWFW-9020	Bored pile construction at abutment pier F-02 (2 nos, 15d/ bored, 1 set machine)	30	30	12-Sep-23	18-Oct-23	03-Jun-23	10-Jul-23	112	Task Dependent	0%
Stage 11 Abutment construction in S.side										
BWFW-11000	Install sheet pile using vibration hammer to form ELS system for the pile cap F-01	47	47	08-Jun-23	03-Aug-23	16-May-23	12-Jul-23	138	Task Dependent	0%
BWFW-11010	ELS and install wailing and strut F-01	60	60	04-Aug-23	14-Oct-23	13-Jul-23	20-Sep-23	138	Task Dependent	0%
Bridge Works (A1,A2,A3,G,F4)										
Site Clearance & Additional GI and Predrilling Works										
BWGIPW-1040	Site clearance & additional GI and Pre-drilling works: Bridge G	53	5	25-Oct-21 A	23-Jun-23	25-Oct-21	20-Mar-23	-16	Task Dependent	90.57%
Construction of Bridge Foundation										
Construction of Bridge A3 Foundation (Team 2) (~30m depth)										
BWBF-1340b	Pier A3-01r (2nos. pile, 20d/pile, 1no. workfront)*	40	40	08-Jun-23	26-Jul-23	14-Feb-23	31-Mar-23	-49	Task Dependent	0%
Construction of Bridge G Foundation (Team 3) (~20m depth)										
BWBF-1270	Pier G-01a/b (4nos. pile, 15d/pile, 1no. workfront)	60	60	04-Jun-23 A	14-Dec-23	05-Jul-23	12-Sep-23	-14	Task Dependent	0%
BWBF-1180	ELS for G-02 to G-04	8	8	08-Jun-23*	16-Jun-23	02-Feb-23	08-Mar-23	-41	Task Dependent	0%
BWBF-1210	Pier G-04 (2nos. pile, 15d/pile, 1 no. workfront)	30	30	17-Jun-23	24-Jul-23	13-Mar-23	20-Apr-23	-14	Task Dependent	0%
BWBF-1110	ELS for Abt G-06 and G-05	30	30	17-Jun-23	24-Jul-23	09-Mar-23	17-Apr-23	-41	Task Dependent	0%
BWBF-1220	Pier G-03 (2nos. pile, 15d/pile, 1 no. workfront)	30	30	25-Jul-23	28-Aug-23	21-Apr-23	27-May-23	-14	Task Dependent	0%
BWBF-1120	Abt G-06 (6nos. pile, 15d/pile, 1 no. workfront)	90	90	25-Jul-23	09-Nov-23	18-Apr-23	04-Aug-23	-41	Task Dependent	0%
BWBF-1240	Pier G-02 (2nos. pile, 15d/pile, 1 no. workfront)	30	30	29-Aug-23	04-Oct-23	29-May-23	04-Jul-23	-14	Task Dependent	0%
Construction of Footbridge F4 Foundation										
BWBF-1360a	ELS for Footbridge F4-01	30	30	08-Jun-23	14-Jul-23	19-Jan-23	25-Feb-23	167	Task Dependent	0%
BWBF-1360	Footbridge F4-01 (6nos. socket-H, 4d/pile, 1no. workfront)	24	24	15-Jul-23	11-Aug-23	30-Mar-23	02-May-23	167	Task Dependent	0%
BWBF-170a	ELS for Footbridge F4-02	30	30	15-Jul-23	18-Aug-23	27-Feb-23	01-Apr-23	174	Task Dependent	0%
BWBF-1370	Footbridge F4-02 (6nos. socket-H, 4d/pile, 1no. workfront)	24	24	19-Aug-23	15-Sep-23	03-May-23	31-May-23	174	Task Dependent	0%
ELS of Bridge Pier										
ELS of Bridge A1 Foundation										

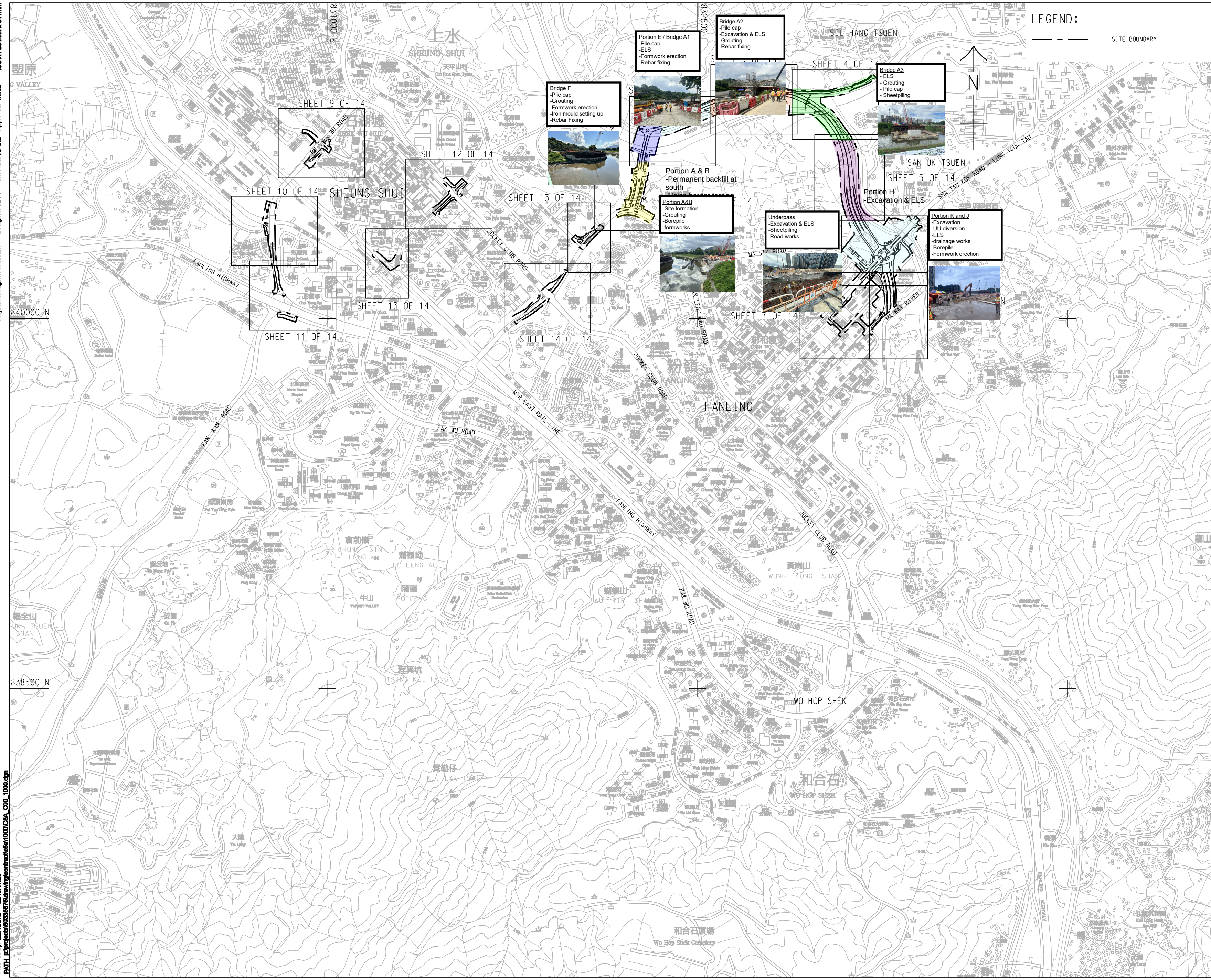


Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
BWBE-1010	ELS for Pier A1-02	30	8	23-Apr-23 A	16-Jun-23	24-Dec-22	03-Feb-23	233	Task Dependent	73.33%
BWBE-1050	ELS for Pier A1-01M	30	30	17-Jun-23	24-Jul-23	04-Feb-23	10-Mar-23	263	Task Dependent	0%
ELS of Bridge A3 Foundation										
BWBE-3000	ELS for Pier A3-01l	30	8	12-Apr-23 A	16-Jun-23	07-Jan-23	14-Feb-23	-37	Task Dependent	73.33%
BWBE-3030	ELS for Pier A3-03l	30	48	12-Apr-23 A	04-Aug-23	14-Feb-23	20-Mar-23	-77	Task Dependent	0%
BWBE-3020	ELS for Pier A3-03r	30	30	08-Jun-23	14-Jul-23	14-Feb-23	20-Mar-23	-59	Task Dependent	0%
BWBF-1340a	ELS for Pier A3-01r	30	30	27-Jul-23	30-Aug-23	01-Apr-23	11-May-23	-49	Task Dependent	0%
ELS of Bridge G Foundation										
BWBE-4020	ELS for Pier G-04	30	30	25-Jul-23	28-Aug-23	21-Apr-23	27-May-23	136	Task Dependent	0%
BWBE-4030	ELS for Pier G-03	30	30	29-Aug-23	04-Oct-23	29-May-23	04-Jul-23	196	Task Dependent	0%
BWBE-4040	ELS for Pier G-02	30	30	05-Oct-23	09-Nov-23	05-Jul-23	08-Aug-23	136	Task Dependent	0%
ELS of Bridge F4 Foundation										
BWBE-5000	ELS for Pier F4-01	20	20	12-Aug-23	04-Sep-23	03-May-23	25-May-23	167	Task Dependent	0%
BWBE-5010	ELS for Pier F4-02	20	20	16-Sep-23	11-Oct-23	01-Jun-23	24-Jun-23	174	Task Dependent	0%
Pile cap of Bridge										
Pile cap of Bridge A1 Foundation										
BWBC-1030	Pile cap for A1-04 (1 no. pile cap, 30d/cap, 1no. workfront)	30	5	29-May-23 A	13-Jun-23	13-Feb-23	18-Mar-23	146	Task Dependent	83.33%
BWBC-1010	Pile cap for A1-02 (1 no. pile cap, 30d/cap, 1no. workfront)	30	30	17-Jun-23	24-Jul-23	04-Feb-23	10-Mar-23	233	Task Dependent	0%
BWBC-1050	Pile cap for Abt A1-01M (1 no. pile cap, 30d/cap, 1no. workfront)	30	30	25-Jul-23	28-Aug-23	11-Mar-23	19-Apr-23	263	Task Dependent	0%
Pile cap of Bridge A2 Foundation										
BWBC-2000	Pile cap for A2-02a/b (1 no. pile cap, 30d/cap, 1no. workfront)	30	3	09-May-23 A	29-Jul-23	08-May-23	12-Jun-23	-65	Task Dependent	90%
Pile cap of Bridge A3 Foundation										
BWBC-3000	Pile cap for A3-01l (2nos. pile cap, 30d/cap, 1nos. workfronts)	30	30	17-Jun-23	24-Jul-23	15-Feb-23	21-Mar-23	-37	Task Dependent	0%
BWBC-3020	Pile cap for A3-03r (1no. pile cap, 30d/cap, 1no. workfront)	30	30	15-Jul-23	18-Aug-23	21-Mar-23	28-Apr-23	-59	Task Dependent	0%
BWBC-3030	Pile cap for A3-03l (1no. pile cap, 30d/cap, 1no. workfront)	30	30	05-Aug-23	08-Sep-23	21-Mar-23	28-Apr-23	-77	Task Dependent	0%
BWBC-3000a	Pile cap for A3-01r (1nos. pile cap, 30d/cap, 1 workfronts)	30	30	31-Aug-23	06-Oct-23	12-May-23	16-Jun-23	-49	Task Dependent	0%
Pile cap of Bridge G Foundation										
BWBC-4030	Pile cap for G-04 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	29-Aug-23	04-Oct-23	29-May-23	04-Jul-23	136	Task Dependent	0%
BWBC-4020	Pile cap for G-03 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	05-Oct-23	09-Nov-23	05-Jul-23	08-Aug-23	196	Task Dependent	0%
Pile cap of Bridge F4 Foundation										
BWBC-5000	Pile cap for F4-01 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	05-Sep-23	11-Oct-23	27-May-23	03-Jul-23	167	Task Dependent	0%
Construction of Bridge Substructure										
Construction of Bridge A1 Substructure										
BWBS-1050	Pier A1-06a/b (2nos. column, 30d/column, 1 no. workfront)	60	3	20-Jan-23 A	10-Jun-23	21-Jan-23	04-Apr-23	88	Task Dependent	95%
BWBS-1090	Pier A1-03a/b (2nos. column, 30d/column, 1 no. workfront)	60	27	09-Apr-23 A	11-Jul-23	21-Jun-23	31-Aug-23	244	Task Dependent	55%
BWBS-1130	Pier A1-04a/b (2nos. column, 30d/column, 1 no. workfront)	60	60	14-Jun-23	24-Aug-23	06-Apr-23	20-Jun-23	146	Task Dependent	0%
BWBS-1070	Pier A1-02a/b (2nos. column, 30d/column, 1 no. workfront)	60	60	25-Aug-23	06-Nov-23	21-Jun-23	31-Aug-23	206	Task Dependent	0%
BWBS-1220	Abt A1-01M (1no. abutment, ~60 d/abutment,1no. workfront)	60	60	29-Aug-23	09-Nov-23	01-Sep-23	13-Nov-23	263	Task Dependent	0%
Construction of Bridge A2 Substructure										
BWBS-1085	Pier A2-03l (1 no. column, 50d/column, portal, 1no. workfront)	50	40	02-Jun-23 A	26-Jul-23	15-Feb-23	18-Apr-23	-85	Task Dependent	20%
BWBS-1060	Pier A2-01a/b (2nos. column, 30d/column, 1no. workfronts)	60	60	08-Jun-23	18-Aug-23	01-Mar-23	15-May-23	-107	Task Dependent	0%
BWBS-1020	Pier A2-02a/b (2nos. column, 30d/column, 1no. workfronts)	60	60	31-Jul-23	10-Oct-23	13-Jun-23	23-Aug-23	-15	Task Dependent	0%
Construction of Bridge A3 Substructure										
BWBS-1030	Pier A3-05a/b (2nos. column, 30d/column, 1no. workfront)	60	8	22-Jul-22 A	16-Jun-23	22-Jul-22	26-Oct-22	-15	Task Dependent	86.67%
BWBS-1215	Pier A3-04a/b (2nos. column, 30d/column,1no. workfront)	60	8	29-Sep-22 A	27-Jun-23	29-Sep-22	16-Dec-22	-15	Task Dependent	86.67%
BWBS-1195	Pier A3-01l (1 no. column, 50d/column, portal, 1no. workfront)- Stage 1	50	50	25-Jul-23	20-Sep-23	22-Mar-23	24-May-23	-37	Task Dependent	0%
BWBS-1210	Pier A3-03r (1 no. column, 50d/column, portal, 1no. workfront)-stage 1	50	50	09-Sep-23	09-Nov-23	29-Apr-23	29-Jun-23	-77	Task Dependent	0%
BWBS-1195a	Pier A3-01r (1 no. column, 50d/column, portal, 1no. workfront)- Stage 2	50	50	07-Oct-23	05-Dec-23	17-Jun-23	16-Aug-23	-49	Task Dependent	0%
Construction of Bridge G Substructure										
BWBS-1250	Pier G-04 (1no. column, 30d/column,1no. workfront)	30	30	05-Oct-23	09-Nov-23	05-Jul-23	08-Aug-23	136	Task Dependent	0%
Construction of Bridge Deck										



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start (RP05)	BL Finish (RP05)	Total Float	Activity Type	Activity % Complete
Construction of Bridge A1 Deck										
BWBD-1066	Falsework Erection for A1 cast in-situ pier segments-stage 2 (A1-05)	15	15	08-Jun-23	26-Jun-23	21-Jun-23	10-Jul-23	151	Task Dependent	0%
BWBD-1063	Falsework Erection for A1 cast in-situ pier segments-stage 1 (A1-06)	15	15	12-Jun-23	29-Jun-23	06-Apr-23	26-Apr-23	88	Task Dependent	0%
BWBD-1076	Bridge A1 cast in-situ pier segments A1-05	90	90	27-Jun-23	12-Oct-23	11-Jul-23	26-Oct-23	151	Task Dependent	0%
BWBD-1073	Bridge A1 cast in-situ pier segments A1-06*	90	90	30-Jun-23	16-Oct-23	27-Apr-23	14-Aug-23	88	Task Dependent	0%
BWBD-1062	Falsework Erection for A1 cast in-situ pier segments-stage 1 (A1-03)	15	15	12-Jul-23	28-Jul-23	01-Sep-23	18-Sep-23	244	Task Dependent	0%
BWBD-1065	Falsework Erection for A1 cast in-situ pier segments-stage 2 (A1-04)	15	15	25-Aug-23	11-Sep-23	21-Jun-23	10-Jul-23	146	Task Dependent	0%
Construction of Bridge A2 Deck										
Construction of Pier Segment										
BWBD-1024	Falsework Erection for A2 cast in-situ pier segments-A2-05	23	23	08-Jun-23	06-Jul-23	22-Feb-23	20-Mar-23	-128	Task Dependent	0%
BWBD-1022a	Bridge A2 cast pier segments at A2-03r	90	90	08-Jun-23	22-Sep-23	07-Jan-23	29-Apr-23	-112	Task Dependent	0%
BWBD-1027a	Bridge A2 cast pier segments at A2-04	90	90	08-Jun-23	22-Sep-23	29-Apr-23	16-Aug-23	11	Task Dependent	0%
BWBD-1024a	Bridge A2 cast pier segments at A2-05*	90	90	07-Jul-23	21-Oct-23	21-Mar-23	12-Jul-23	-128	Task Dependent	0%
BWBD-1023	Falsework Erection for A2 cast in-situ pier segments-A2-03l	23	23	27-Jul-23	22-Aug-23	19-Apr-23	16-May-23	-85	Task Dependent	0%
BWBD-1026	Falsework Erection for A2 cast in-situ pier segments-A2-01	23	23	19-Aug-23	14-Sep-23	16-May-23	12-Jun-23	-107	Task Dependent	0%
BWBD-1026a	Bridge A2 cast pier segments at A2-01	90	90	15-Sep-23	04-Jan-24	13-Jun-23	27-Sep-23	-107	Task Dependent	0%
BWBD-1023a	Bridge A2 cast pier segments at A2-03l	90	90	23-Sep-23	12-Jan-24	13-Jun-23	27-Sep-23	-112	Task Dependent	0%
Construction of Bridge A3 Deck										
Construction of Pier Segment										
BWBD-1083	Falsework Erection for A3 cast in-situ segments (A3-06)	21	21	08-Jun-23	04-Jul-23	23-Feb-23	06-Mar-23	-90	Task Dependent	0%
BWBD-1082	Falsework Erection for A3 cast in-situ segments (A3-05)	10	10	17-Jun-23	29-Jun-23	27-Oct-22	07-Nov-22	266	Task Dependent	0%
BWBD-1087	Falsework Erection for A3 cast in-situ segments (A3-02)	10	10	20-Jun-23	03-Jul-23	10-May-23	20-May-23	2	Task Dependent	0%
BWBD-1081	Falsework Erection for A3 cast in-situ segments (A3-04)	10	10	28-Jun-23	10-Jul-23	17-Dec-22	30-Dec-22	-5	Task Dependent	0%
BWBD-1082a	Bridge A3 cast in-situ segments (A3-05)	90	90	30-Jun-23	16-Oct-23	08-Nov-22	19-Dec-22	266	Task Dependent	0%
BWBD-1083a	Bridge A3 cast in-situ segments (A3-06)*	90	90	05-Jul-23	19-Oct-23	07-Mar-23	27-Jun-23	-90	Task Dependent	0%
BWBD-1081a	Bridge A3 cast in-situ segments (A3-04)	90	90	11-Jul-23	26-Oct-23	31-Dec-22	24-Apr-23	-5	Task Dependent	0%
U-trough 1-4										
UT1-1000	U-trough 1 and near by road works and FW-18 (after Bored pile G-06)	80	80	25-Jul-23	28-Oct-23	18-Apr-23	24-Jul-23	-41	Task Dependent	0%
UT3-1000	U-trough 3 and near by road works (after F4-02 H pile)	80	80	23-Sep-23	30-Dec-23	15-Jun-23	18-Sep-23	167	Task Dependent	0%





ISO A1 594mm x 841mm

Project Management Initials: Designer: JLCT Checked: RPCM Approved: IHWL

Plot File by: ZENGLY2 2019/11/23
PATH: P:\projects\60335576\drawing\contract\cefx\1000\C5A_C00_1000.dgn

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

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

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
-	NOV-19	TENDER DRAWING	RPCM

STATUS

SCALE	DIMENSION UNIT
A1 1 : 7000	METRES

KEY PLAN

PROJECT NO.	CONTRACT NO.
60335576	ND/2019/04

SHEET TITLE

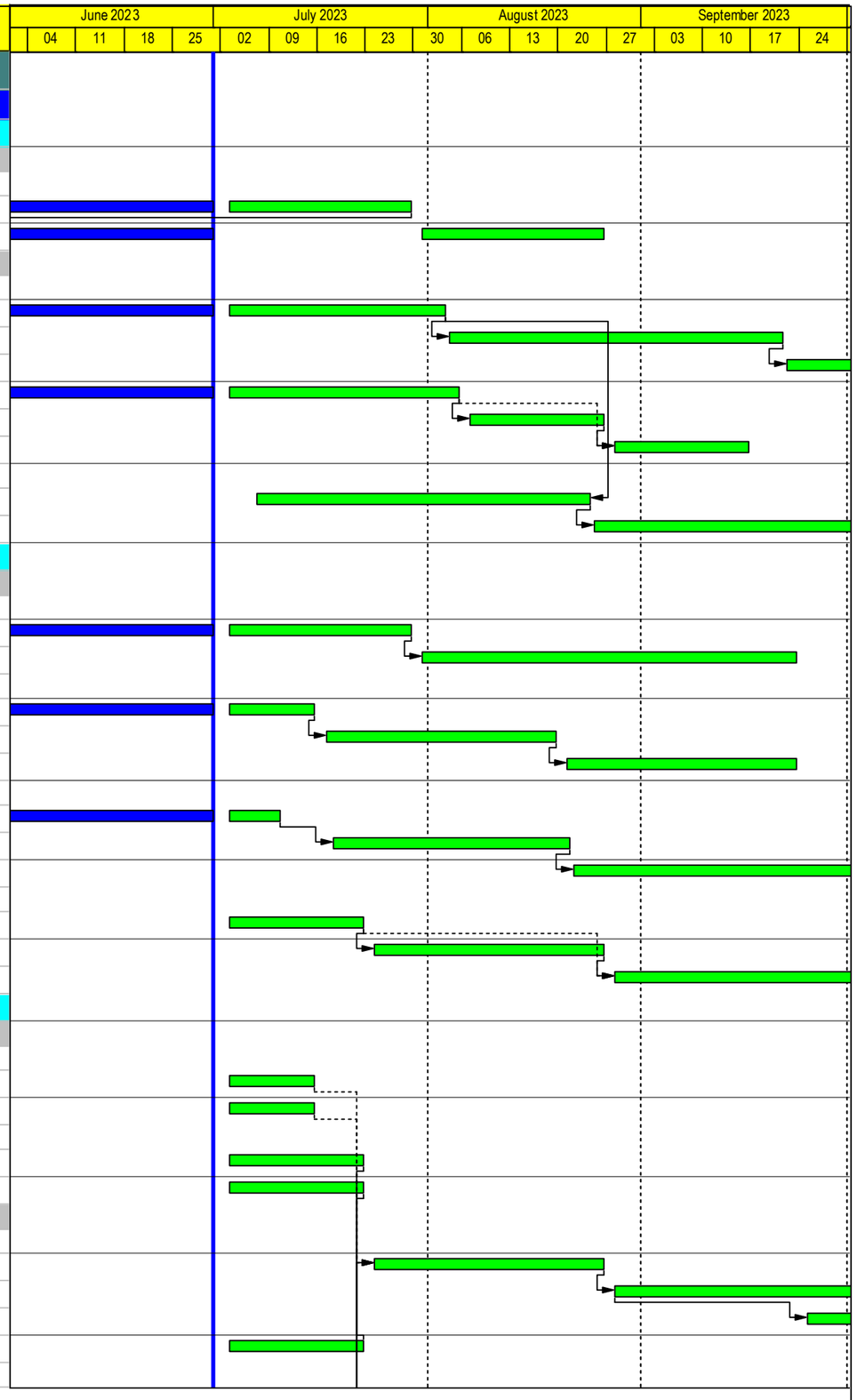
KEY PLAN AND LOCATION PLAN

SHEET NUMBER

60335576/C5A/C00/1000

Construction Programme of ND/2019/05

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
DPr16 - Acceleration Programme				
4.0 - Bridge Construction				
4.4 - Bridge B1				
4.4.1 - Substructure Portion I and 1A				
- Pier				
B1-0014	B1 - Abutment B1-01M Wall	24	01-Mar-23 A	29-Jul-23
B1-0014a	B1 - Abutment B1-01M Backfilling	24	05-May-23 A	26-Aug-23
4.4.4 - Bridge Deck				
- Portal Beam				
B1-0055	B1 - Deck Method Statement Preparation	28	01-Feb-23 A	03-Aug-23
B1-0056	B1 - Deck Method Statement ICE	42	04-Aug-23	21-Sep-23
B1-0057	B1 - Deck Method Statement PM Review	42	22-Sep-23	13-Nov-23
B1-0061	B1-02 Portal Beam - Construction	30	02-May-23 A	05-Aug-23
B1-0062	B1-02 Portal Beam - Stressing	18	07-Aug-23	26-Aug-23
B1-0063	B1-02 Portal Beam - Remove Temp Work	18	28-Aug-23	16-Sep-23
- Cast-in-situ Slab				
B1-0100	B1 - Agreement on Construction Scheme	42	07-Jul-23	24-Aug-23
B1-7330	B1 - Method Statement / DSD Consent	120	25-Aug-23	18-Jan-24
4.5 - Bridge B2				
4.5.1 - Substructure				
- Preparation Works				
B2-0015	B2 Temporary Work - Approval/Consent by Authority	24	25-Oct-22 A	29-Jul-23
B2-0020	B2 Temporary Work - Procurement/Fabrication	48	31-Jul-23	23-Sep-23
- Pier B2-03				
B2-0205	B2-03 ELS - Excavation	12	22-Mar-23 A	15-Jul-23
B2-0210	B2-03 Pile Cap	30	17-Jul-23	19-Aug-23
B2-0220	B2-03 Column	30	21-Aug-23	23-Sep-23
- Pier B2-02				
B2-0260	B2-02 Column	7	24-May-23 A	10-Jul-23
B2-0272	B2-02 Cross Head Falseworks	30	18-Jul-23	21-Aug-23
B2-0275	B2-02 Cross Head Construction	60	22-Aug-23	02-Nov-23
- Pier B2-01				
B2-0280	B2-01 ELS - Sheetpiles	18	03-Jul-23	22-Jul-23
B2-0285	B2-01 ELS - Excavation	30	24-Jul-23	26-Aug-23
B2-0290	B2-01 Pile Cap	30	28-Aug-23	03-Oct-23
4.6 - Bridge C1				
4.6.2 - Pier				
- C1-01M				
C1-1175	Pier C1-01M N/B Backfilling	12	03-Jul-23	15-Jul-23
C1-1335	Pier C1-01M S/B Backfilling	12	03-Jul-23	15-Jul-23
- C1-02				
C1-1155	Pier C1-02 N/B Backfilling	18	03-Jul-23	22-Jul-23
C1-1315	Pier C1-02 S/B Backfilling	18	03-Jul-23	22-Jul-23
4.6.3 - Portal Beam				
- C1-01M				
C1-3011	C1-01M Portal Beam - Falsework Erection	30	24-Jul-23	26-Aug-23
C1-3012	C1-01M Portal Beam - C1 Beam	60	28-Aug-23	08-Nov-23
C1-3015	C1-01M Portal Beam - B2 Beam	60	25-Sep-23	06-Dec-23
C1-3020	C1-01M Install Bearing	18	03-Jul-23	22-Jul-23
- C1-02				



Actual Work
Non-critical
Critical
Milestone

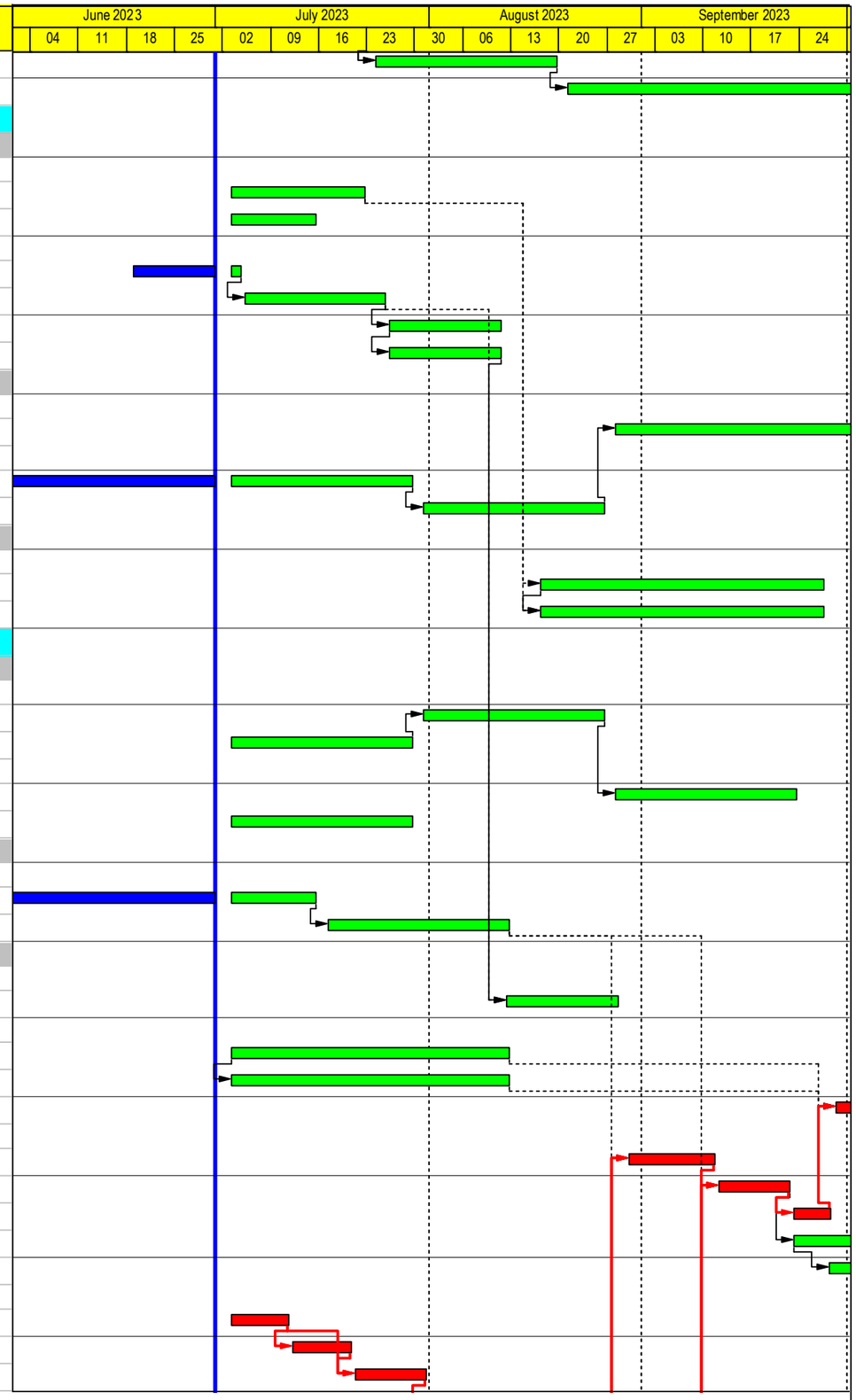
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : DPr16-4
Layout : 3MRP EPD
Date : 05-Jul-23 / Page 1 of 8

3MRP			
Date	Revision	Check...	Approved
03-Jul-23	Draft		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
C1-3111	C1-02 Portal Beam - Falsework Erection	24	24-Jul-23	19-Aug-23
C1-3114	C1-02 Portal Beam - Construction	72	21-Aug-23	15-Nov-23
4.7 - Bridge C2				
4.7.2 - Pier				
- C2-03				
C2-1455	Pier C2-03 N/B Backfilling	18	03-Jul-23	22-Jul-23
C2-1475	Pier C2-03 S/B Backfilling	12	03-Jul-23	15-Jul-23
- C2-04				
C2-1492	Pier C2-04M N/B Pier Head (Typ 1M)	2	19-Jun-23 A	04-Jul-23
C2-1495	Pier C2-04M N/B Backfilling	18	05-Jul-23	25-Jul-23
C2-1498	Pier C2-04M N/B Install Bearing	15	26-Jul-23	11-Aug-23
C2-1518	Pier C2-04M S/B Install Bearing	15	26-Jul-23	11-Aug-23
4.7.3 - Cross Head				
- C2-01				
C2-1752	C2-01 Cross Head Falseworks	30	28-Aug-23	03-Oct-23
- C2-02				
C2-1805	C2-02 Cross Head Construction	24	27-Mar-23 A	29-Jul-23
C2-1808	C2-02 Cross Head Remove Temp Works	24	31-Jul-23	26-Aug-23
4.7.4 - Bridge Deck				
- T-span C2-03				
C2-2300	C2-03 S/B Segment on Pier by Crane	36	17-Aug-23	27-Sep-23
C2-2310	C2-03 N/B Segment on Pier by Crane	36	17-Aug-23	27-Sep-23
4.8 - Bridge C3				
4.8.3 - Pier				
- C3-03				
C3-1425	Pier C3-03a Backfilling	24	31-Jul-23	26-Aug-23
C3-1475	Pier C3-03b Backfilling	24	03-Jul-23	29-Jul-23
- C3-04M				
C3-1525	Pier C3-04aM Backfilling	24	28-Aug-23	23-Sep-23
C3-1575	Pier C3-04bM Backfilling	24	03-Jul-23	29-Jul-23
4.8.4 - Portal Beam and Cross Head				
- C3-02				
C3-1815	C3-02 Cross Head Construction	12	18-Apr-23 A	15-Jul-23
C3-1818	C3-02 Cross Head Remove Temp Works	24	17-Jul-23	12-Aug-23
4.8.5 - Bridge Deck				
- End-span C3/C2-04M				
C3-2005	C3/C2-04M S/B End-span Erect Support Frame	14	12-Aug-23	28-Aug-23
- T-span C3-01				
C3-2110	C3-01 S/B Segment on Pier by Crane	36	03-Jul-23	12-Aug-23
C3-2115	C3-01 N/B Segment on Pier by Crane	36	03-Jul-23	12-Aug-23
C3-2130	C3-01 S/B and N/B Segment Erection T-span (19+19 nos)	11	29-Sep-23	13-Oct-23
- T-span C3-02				
C3-2215	C3-02 S/B + N/B Segment Erection 1st Pair Using Hanger Beam	11	30-Aug-23	11-Sep-23
C3-2220	C3-02 S/B and N/B Segment Erection T-span (16+18 nos)	10	12-Sep-23	22-Sep-23
C3-2222	Walk Launching Gantry to C3-01	5	23-Sep-23	28-Sep-23
C3-2225	C3-02 S/B Mid-span Stitch and Stressing	9	23-Sep-23	05-Oct-23
C3-2227	C3-02 N/B Mid-span Stitch and Stressing	9	28-Sep-23	10-Oct-23
- T-span C3-03				
C3-2310	C3-03 S/B Segment Erection 1st Pair (2 nos)	8	03-Jul-23	11-Jul-23
C3-2315	C3-03 N/B Segment Erection 1st Pair (2 nos)	8	12-Jul-23	20-Jul-23
C3-2320	C3-03 S/B and N/B Segment Erection T-span (18+16 nos)	9	21-Jul-23	31-Jul-23



Actual Work
Non-critical
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Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : DPr16-4
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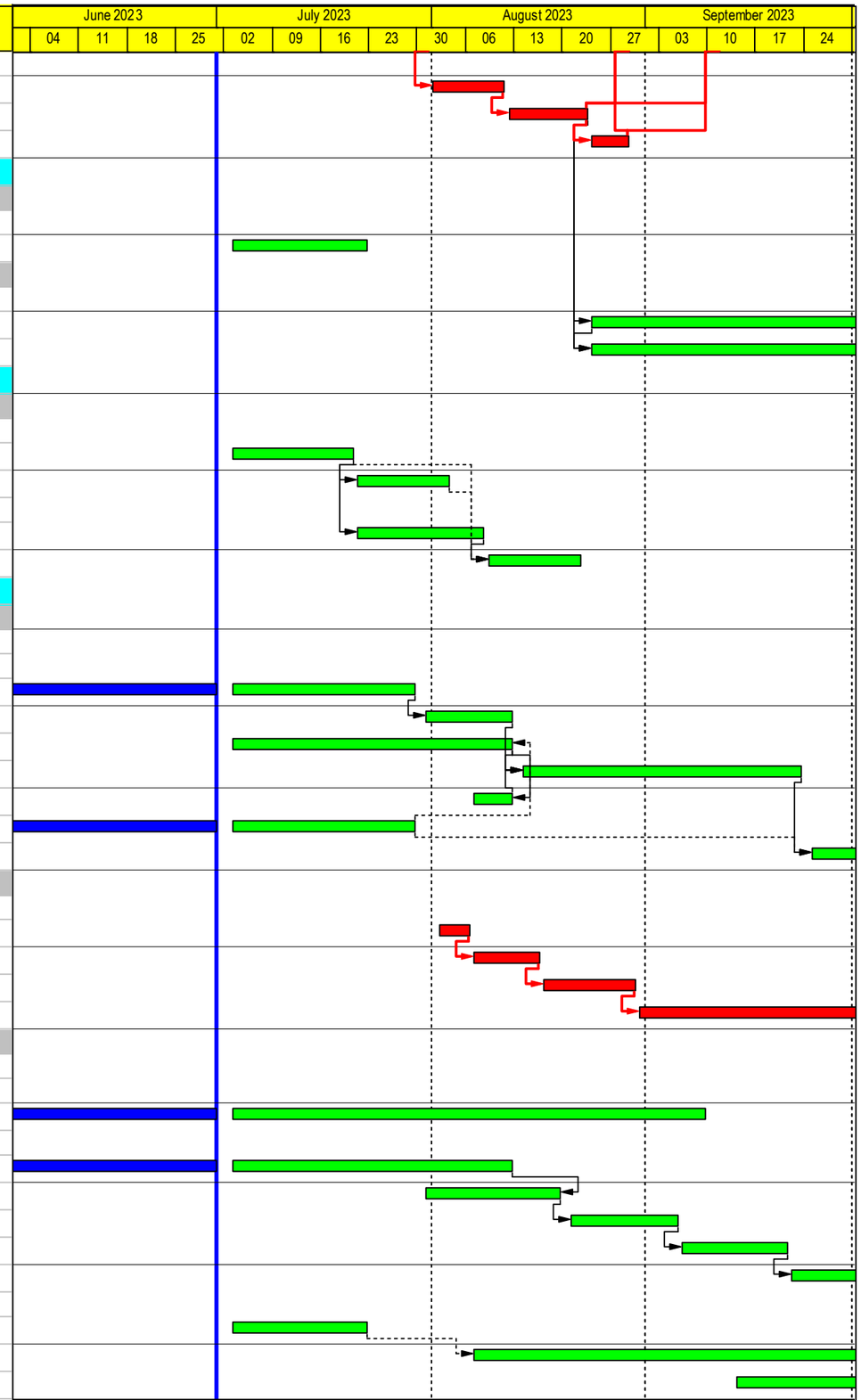
3MRP

Date	Revision	Check...	Approved
03-Jul-23	Draft		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- End-span C3-04				
C3-2420	C3-04M S/B End-span Erection (9 nos) + Stitching + Stressing	10	01-Aug-23	11-Aug-23
C3-2460	C3-04M N/B End-span Erection (9 nos) + Stitching + Stressing	10	12-Aug-23	23-Aug-23
C3-2465	Walk Launching Gantry to C3-02	5	24-Aug-23	29-Aug-23
4.9 - Bridge C4				
4.9.3 - Pier				
- C4-02				
C4-1375	Pier C4-02 Backfilling	18	03-Jul-23	22-Jul-23
4.9.5 - Bridge Deck				
- Stitch and Stress				
C4-2650	C4 Stress External Tendon E S/B	36	24-Aug-23	06-Oct-23
C4-2750	C4 Stress External Tendon E N/B	36	24-Aug-23	06-Oct-23
4.10 - Bridge D1				
4.10.4 - Bridge Deck				
- T-span D1-02				
D1-2270	D1-02 Segment Erection T-span (16 nos) by Crane	16	03-Jul-23	20-Jul-23
D1-2275	D1-02/D1-01 Mid-span Stitch and Stress Bottom Tendon	12	21-Jul-23	03-Aug-23
- T-span D1-03				
D1-2370	D1-03 Segment Erection T-span (16 nos) by Crane	16	21-Jul-23	08-Aug-23
D1-2375	D1-03/D1-02 Mid-span Stitch and Stress Bottom Tendon	12	09-Aug-23	22-Aug-23
4.11 - Bridge D2				
4.11.1 - Foundation				
- Portion XI				
- Pier D2-04M				
D2-1016	Existing NB77 - Application for Lighting Removal	24	01-Feb-23 A	29-Jul-23
D2-1018	Existing NB77 - Lighting Removal/Install Temp Lighting	12	31-Jul-23	12-Aug-23
D2-1020	Existing NB77 - Remove Noise Panels and Steel Frames	36	03-Jul-23	12-Aug-23
D2-1025	Existing NB77 - Demolish Footing	36	14-Aug-23	23-Sep-23
D2-1250	Abutment D2-04M TTA - Implementation	6	07-Aug-23	12-Aug-23
D2-1255	Abutment D2-04M Site Clearance / Trial Pits	24	01-Feb-23 A	29-Jul-23
D2-1260	Abutment D2-04M Pre-drilling (4 nos)	18	25-Sep-23	17-Oct-23
4.11.2 - Pier				
- D2-01				
D2-1516	Pier D2-01 Pile Cap Lower Turn Table Remove Formwork and Backfilling	5	02-Aug-23	06-Aug-23
D2-1517	Pier D2-01 Pile Cap Spherical Bearing and Reaction Blocks	10	07-Aug-23	16-Aug-23
D2-1518	Pier D2-01 Pile Cap Stanchions and Sandboxes + Upper Rurntable Template	14	17-Aug-23	30-Aug-23
D2-1520	Pier D2-01 Pile Cap Traction Strand + Rebar Fixing + Pour Concrete	77	31-Aug-23	15-Nov-23
4.11.3 - Bridge Deck				
- D2-01				
- Prep Work				
D2-2159	D2-01 Obtain MTRC Consent for Deck Construction	60	15-May-23 A	09-Sep-23
- D2-02				
D2-7565	D2-02 Form Traveler Installation - FT3	36	19-May-23 A	12-Aug-23
D2-7568	D2-02 T-span by Form Traveler (1st pair of 11) - FT3	18	31-Jul-23	19-Aug-23
D2-7575a	D2-02 T-span by Form Traveler (2nd pair) - FT3	14	21-Aug-23	05-Sep-23
D2-7575b	D2-02 T-span by Form Traveler (3rd pair) - FT3	14	06-Sep-23	21-Sep-23
D2-7575c	D2-02 T-span by Form Traveler (4th pair) - FT3	14	22-Sep-23	10-Oct-23
- D2-03				
D2-2361a	D2-03 SOP Curing and Formwork Removal	18	03-Jul-23	22-Jul-23
D2-2362	D2-03 Form Traveler Installation - FT4	54	07-Aug-23	10-Oct-23
D2-2362a	D2-03 T-span by Form Traveler (1st pair of 11) - FT4	24	14-Sep-23	13-Oct-23



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Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

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3MRP			
Date	Revision	Check...	Approved
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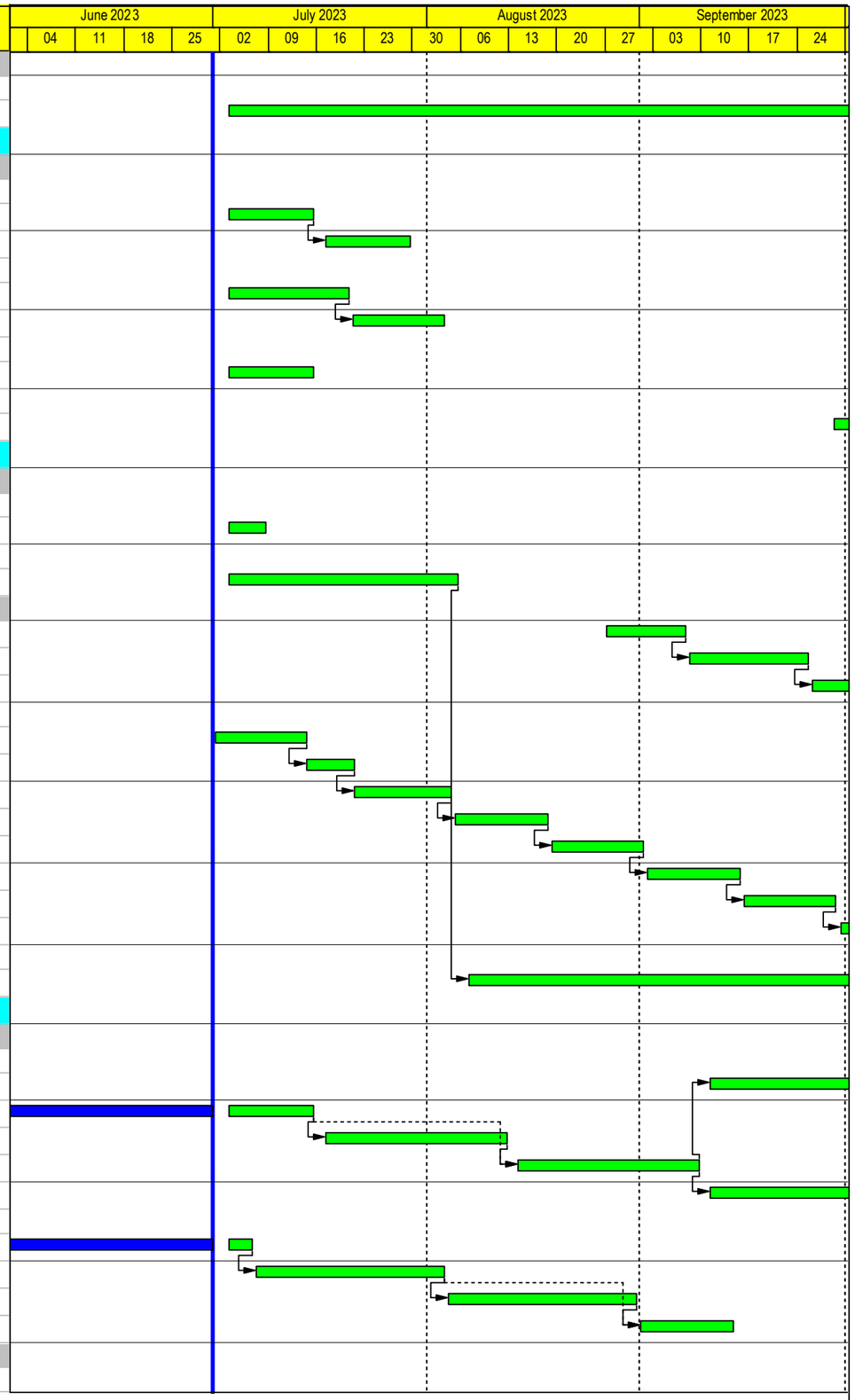
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
4.11.4 - Road Works and Furniture				
- Parapet				
D2-3050	D2 Obtain MTRC Consent for Parepet Construction	90	03-Jul-23	17-Oct-23
4.12 - Bridge E1				
4.12.4 - Bridge Deck				
- End-span D1/C4-04M				
E1-2060	E1/C4-04M Segment Erection End-span (8 nos) by Crane	12	03-Jul-23	15-Jul-23
E1-7260	E1/C4-04M Stitch and Stress Bottom Tendon	12	17-Jul-23	29-Jul-23
- T-span E1-01				
E1-2170	E1-01 Segment Erection T-span (16) by Crane	16	03-Jul-23	20-Jul-23
E1-2275	E1-02/E1-01 Mid-span Stitch and Stress Bottom Tendon	12	21-Jul-23	03-Aug-23
- T-span E1-02				
E1-2375	E1-03/E1-02 Mid-span Stitch and Stress Bottom Tendon	12	03-Jul-23	15-Jul-23
- T-span E1-04M				
E1-2380	E1-04M Segment on Pier	36	29-Sep-23	13-Nov-23
4.13 - Bridge E2				
4.13.2 - Pier				
- E2-01				
E2-1538	Tower Crane 2 - Erection and T&C	6	03-Jul-23	08-Jul-23
- E2-03				
E2-6035	Pier E2-03 Backfilling	30	03-Jul-23	05-Aug-23
4.13.3 - Bridge Deck				
E2-2170	D2-01 Formwork Removal/Site Clearance for Bridge Rotation	12	27-Aug-23	07-Sep-23
E2-2175	D2-01 Trial Bridge Rotation Including Set-up	15	08-Sep-23	25-Sep-23
E2-2180	D2-01 Reverse Bridge Rotation Including Set-up	9	26-Sep-23	07-Oct-23
- T-span E2-02				
E2-7432b	E2-02 T-span by Form Traveler (7th Pair) FT2	12	01-Jul-23	14-Jul-23
E2-7435	TIME RISK ALLOWANCE - form Traveler	6	14-Jul-23	21-Jul-23
E2-7440	E2-02 T-span by Form Traveler (8th pair) - FT2	12	21-Jul-23	04-Aug-23
E2-7440a	E2-02 T-span by Form Traveler (9th pair) - FT2	12	05-Aug-23	18-Aug-23
E2-7440b	E2-02 T-span by Form Traveler (10th pair) - FT2	12	19-Aug-23	01-Sep-23
E2-7440c	E2-02 T-span by Form Traveler)11th pair) - FT2	12	02-Sep-23	15-Sep-23
E2-7440d	E2-02 T-span by Form Traveler (12th pair) - FT2	12	16-Sep-23	29-Sep-23
E2-7440e	E2-02 T-span by Form Traveler (13th pair) - FT2	12	30-Sep-23	13-Oct-23
- T-span E2-03				
E2-2460	E2-03 Cast-in-situ Segment on Pier / Table Top	72	07-Aug-23	01-Nov-23
4.14 - Bridge E3				
4.14.2 - Pier				
- E3-04				
E3-5570	Pier E3-04b ELS - Sheetpiling	18	11-Sep-23	03-Oct-23
E3-7460	Pier E3-04a ELS - Sheetpiling	12	16-May-23 A	15-Jul-23
E3-7465	Pier E3-04a ELS - Excavation	24	17-Jul-23	12-Aug-23
E3-7470	Pier E3-04a Pile Cap	24	14-Aug-23	09-Sep-23
E3-7480	Pier E3-04a Column	24	11-Sep-23	10-Oct-23
- E3-05M				
E3-5605	Pier E3-05M Pile Cap	4	22-May-23 A	06-Jul-23
E3-5610	Pier E3-05M Column	24	07-Jul-23	03-Aug-23
E3-5612	Pier E3-05M Pier Head (Typ 5M)	24	04-Aug-23	31-Aug-23
E3-5615	Pier E3-05M Backfilling	12	01-Sep-23	14-Sep-23
4.14.4 - Bridge Deck				
- T-span E3-01M-1				



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Three-Month Rolling Programme

Project ID : DPr16-4
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3MRP

Date	Revision	Check...	Approved
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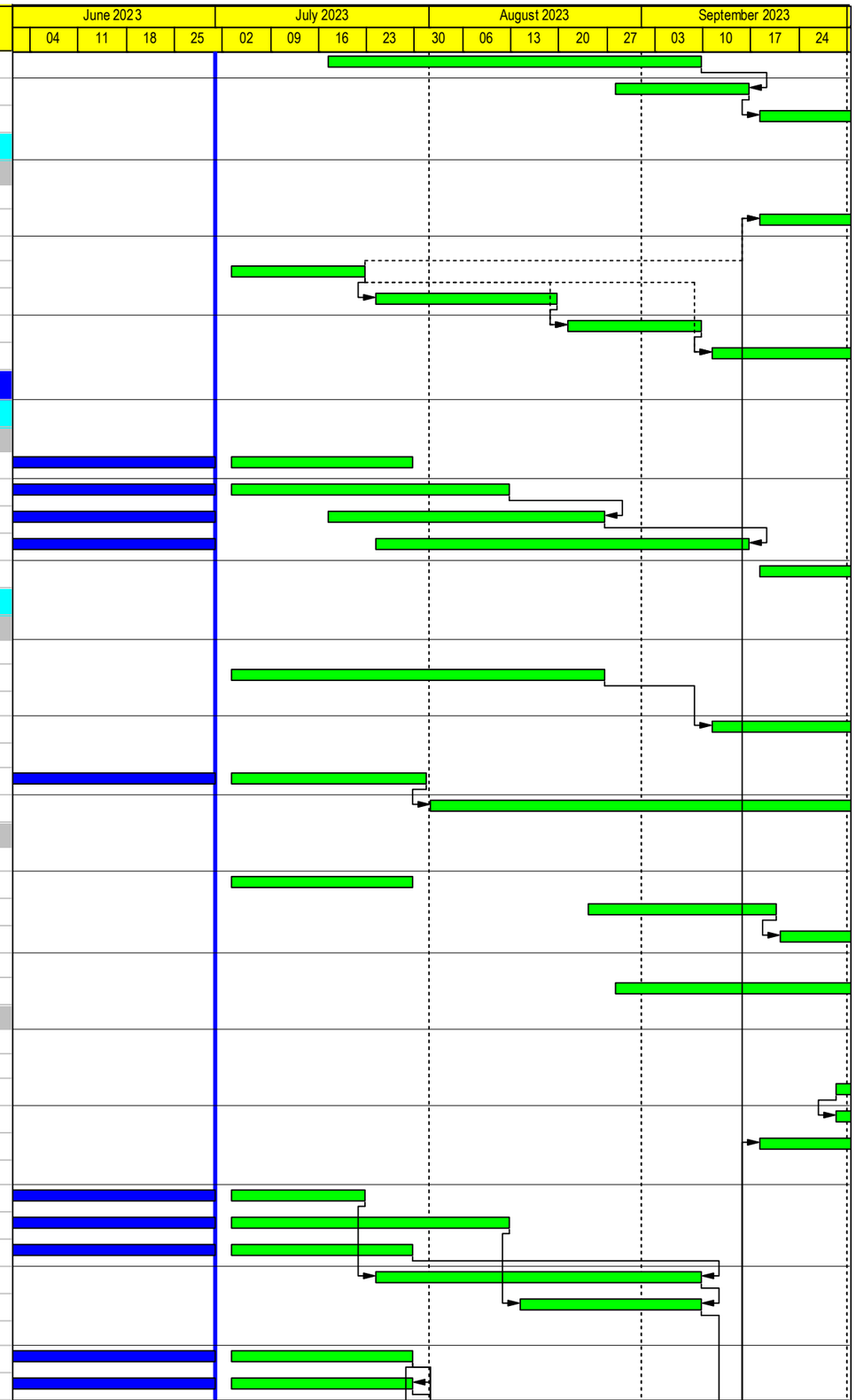
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
E3-2152	E3-01M Form Traveller Installation (FT1)	48	17-Jul-23	09-Sep-23
E3-2153	E3-01M E-span False Balance Cantilever by FT1 (2nd pair)	18	28-Aug-23	16-Sep-23
E3-2153a	E3-01M E-span False Balance Cantilever by FT1 (3rd pair)	12	18-Sep-23	03-Oct-23
4.15 - Bridge E4				
4.15.2 - Pier				
- E4-01				
E4-1310	Pier E4-01 ELS - Sheetpiling	18	18-Sep-23	10-Oct-23
- E4-02				
E4-1350	Pier E4-02 ELS - Sheetpiling	18	03-Jul-23	22-Jul-23
E4-1352	Pier E4-02 ELS - Excavation	24	24-Jul-23	19-Aug-23
E4-1355	Pier E4-02 Footing	18	21-Aug-23	09-Sep-23
E4-1370	Pier E4-02 Column	18	11-Sep-23	03-Oct-23
5.0 - Fanling Highway Associated Works				
5.2 - Fanling Highway Noise Barrier				
5.2.3 - Noise Barrier NB109				
FHY-1511	Noise Barrier NB109 - Bay 5-13 Site Clearance	24	02-Jan-23 A	29-Jul-23
FHY-1512	Noise Barrier NB109 - Bay 5-13 Sheet Piles	36	09-Jan-23 A	12-Aug-23
FHY-1513	Noise Barrier NB109 - Bay 5-13 Excavation	36	06-Feb-23 A	26-Aug-23
FHY-1515	Noise Barrier NB109 - Bay 5-13 Footing	48	24-Apr-23 A	16-Sep-23
FHY-1519	Noise Barrier NB109 - Bay 5-13 Backfilling and Reinstatement	48	18-Sep-23	15-Nov-23
5.3 - Tai Wo Service Road East (TWSR-East)				
5.3.1 - TWSR-East HKY FB Extension				
- Lift and Stairs Structure				
FBE-1235	HKY FB East LT1 Lift Shaft - Steel Works	48	03-Jul-23	26-Aug-23
- Lift Installation				
FBE-1285	HKY FB East Lift - Installation	72	11-Sep-23	06-Dec-23
- HKY FB Extension Deck				
FBE-1352	HKY FB East - Lighting System Procurement and Delivery	25	01-Aug-22 A	31-Jul-23
FBE-1355	HKY FB East - ABWF and BS Works	65	01-Aug-23	17-Oct-23
5.3.2 - TWSR East (1) Adjacent to Cycle Track				
- Ch100 to Ch200				
TSE-2405	TWSR-East Ch100-Ch200 S/B - New Feature FW01 (Fill Slope)	24	03-Jul-23	29-Jul-23
TSE-2421	TWSR-East Ch100-Ch200 S/B - Road Lighting including Cabling	24	24-Aug-23	20-Sep-23
TSE-2425	TWSR-East Ch100-Ch200 S/B - TIME RISK ALLOWANCE	12	21-Sep-23	06-Oct-23
- Ch325 to Ch400				
TSE-2102	TWSR Ch325-Ch550 - Application for Lighting Removal	60	28-Aug-23	08-Nov-23
5.3.3 - TWSR-East Bus-Bus Interchange				
- Bus-Bus Interchange Shelter				
- Public Toilet				
BBI-1015	BBI Public Toilet - Bio-treatment Plant Procurement/Delivery	120	29-Sep-23	26-Feb-24
BBI-1018	BBI Public Toilet - Lighting+Elec+BS+Fit-out Procurement/Delivery	90	29-Sep-23	18-Jan-24
BBI-1020	BBI Public Toilet - G/F Slab	48	18-Sep-23	15-Nov-23
- Covered Walkway				
BBI-1205	BBI Covered Walkway - Fabrication and Delivery	18	01-Sep-22 A	22-Jul-23
BBI-1208	BBI Covered Walkway - Lighting Procurement and Delivery	36	11-Oct-22 A	12-Aug-23
BBI-1215	BBI Covered Walkway - Footing	24	14-Nov-22 A	29-Jul-23
BBI-1225	BBI Covered Walkway - Steel Works and Roof	42	24-Jul-23	09-Sep-23
BBI-1230	BBI Covered Walkway - Lighting Installation	24	14-Aug-23	09-Sep-23
- Bus-Bus Interchange Road Works				
BBI-1310	BBI - Road Formation	24	18-Oct-22 A	29-Jul-23
BBI-1315	BBI - New Feature FW02 (L-Shape Ret Wall)	24	02-May-23 A	29-Jul-23



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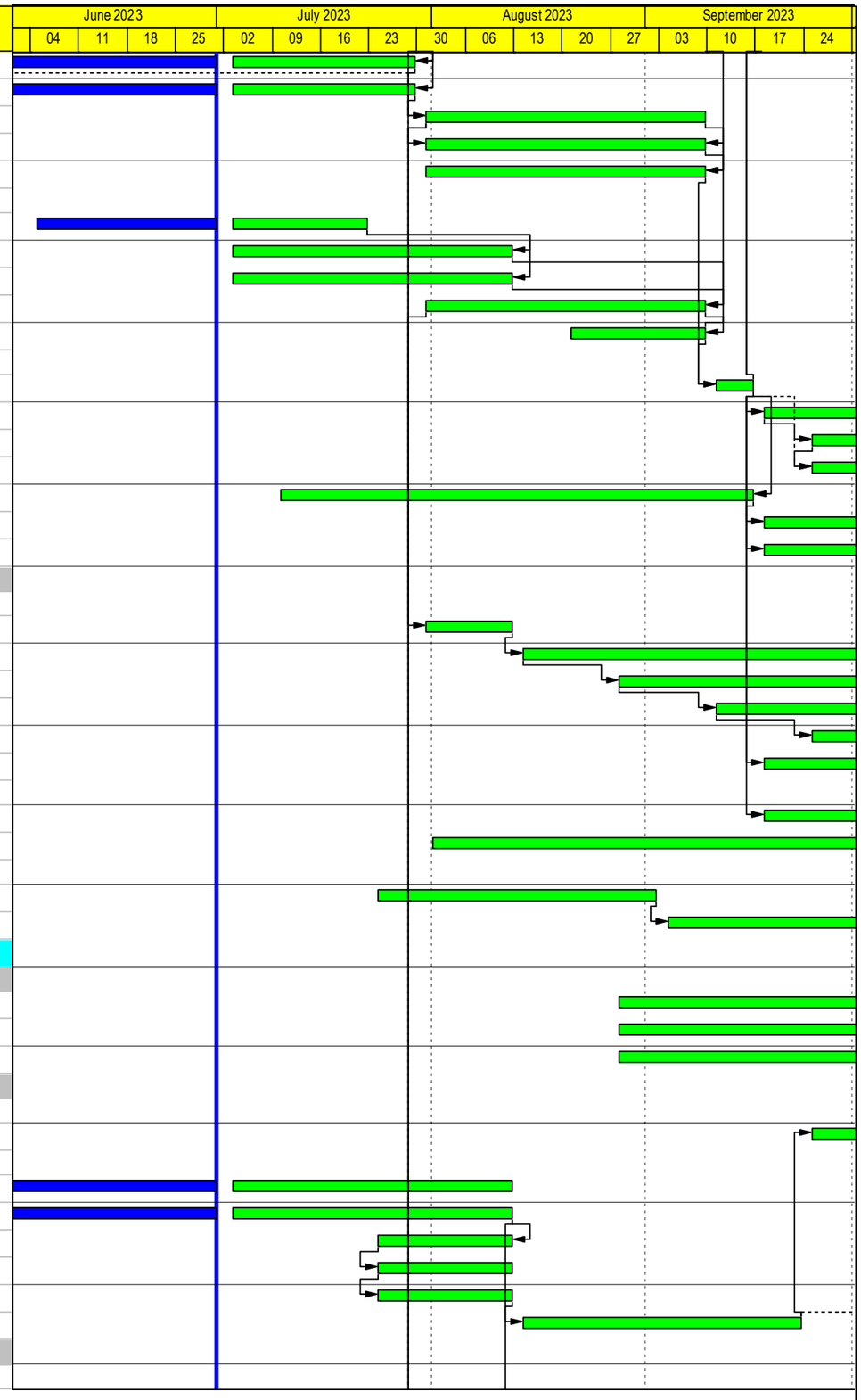
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
BBI-1320	BBI - Drainage, Sewerage and Utilities	24	02-May-23 A	29-Jul-23
BBI-1322	BBI - DN150 Watermain	24	02-May-23 A	29-Jul-23
BBI-1330	BBI - Roadworks and Furniture	36	31-Jul-23	09-Sep-23
BBI-1331	BBI - Road Lighting including Cabling	36	31-Jul-23	09-Sep-23
BBI-1350	BBI - Temp Connection to TWSR East	36	31-Jul-23	09-Sep-23
- TWSR East (2) Entry to BBI from Fanling Highway				
BBI-1420	BBI Entry from FH - Site Formation	18	05-Jun-23 A	22-Jul-23
BBI-1425	BBI Entry from FH - New Feature FS01 (Fill Slope)	36	03-Jul-23	12-Aug-23
BBI-1430	BBI Entry from FH - Drainage, Sewerage and Utilities	36	03-Jul-23	12-Aug-23
BBI-1440	BBI Entry from FH - Roadworks and Furniture	36	31-Jul-23	09-Sep-23
BBI-1441	BBI Entry from FH - Road Lighting including Cabling	18	21-Aug-23	09-Sep-23
- TWSR East (2) BBI Exit to Fanling Highway				
BBI-1500	BBI TTA Stage 1 - Relocate BBI	6	11-Sep-23	16-Sep-23
BBI-1503	NB74 Panels - Removal	12	18-Sep-23	03-Oct-23
BBI-1504	NB74 Panels - Store for Reuse	9	25-Sep-23	06-Oct-23
BBI-1505	NB74 Foundation Demolition	42	25-Sep-23	15-Nov-23
BBI-1522	BBI Exit to FH - Application for Lighting Removal	60	10-Jul-23	16-Sep-23
BBI-1523	BBI Exit to FH - Lighting Removal/Install Temp Lighting	48	18-Sep-23	15-Nov-23
BBI-1545	BBI Connection to Exit Road	42	18-Sep-23	08-Nov-23
5.3.5 - TWSR-East Noise Barrier				
- Noise Barrier NB110 (Typ FV3)				
TSE-1300	Noise Barrier NB110 - Site Clearance/Formation	12	31-Jul-23	12-Aug-23
TSE-1302	Noise Barrier NB110 - Bay 3-9 Sheet Piles	60	14-Aug-23	25-Oct-23
TSE-1305	Noise Barrier NB110 - Bay 3-9 Excavation	54	28-Aug-23	01-Nov-23
TSE-1307	Noise Barrier NB110 - Bay 3-9 Footing	48	11-Sep-23	08-Nov-23
TSE-1310	Noise Barrier NB110 - Bay 3-9 Stem Wall	48	25-Sep-23	22-Nov-23
TSE-1340	Noise Barrier NB110 - Bay 10 Pre-drilling and Mini-pile set-up	24	18-Sep-23	17-Oct-23
- Noise Barrier NB68				
TSE-1405	Noise Barrier NB68 - Bay 1-4 Pipe Piles	30	18-Sep-23	25-Oct-23
TSE-1568	Noise Barrier NB68 - Fabrication and Delivery	150	01-Aug-23	29-Jan-24
- Noise Barrier NB69				
TSE-1520	Noise Barrier NB69 - Bay 6-10 Footing	36	24-Jul-23	02-Sep-23
TSE-1525	Noise Barrier NB69 - Bay 6-10 Stem Wall	24	04-Sep-23	03-Oct-23
5.4 - Tai Wo Service Road West (TWSR-West)				
5.4.2 - TWSR-West Ch000 to Ch200				
TSW-4106	TWSRW Ch100-Ch150 Drainage 1650dia - SMH FL9109 to existing MH	78	28-Aug-23	29-Nov-23
TSW-4107	TWSRW Ch100-Ch150 Sewerage DN450 - FMH TWS2.04 to TWS2.06	78	28-Aug-23	29-Nov-23
TSW-4109	TWSRW Ch100-Ch150 Watermain - DN450 and DN150 Include Testing	36	28-Aug-23	10-Oct-23
5.4.3 - TWSR-West Ch200 to Ch450				
- Ch200 to Ch400				
TSW-4464	TWSRW Ch200-Ch400 TWSRW Diversion	6	25-Sep-23	03-Oct-23
- Ch400 to Ch450				
TSW-4455	TWSRW Ch400-Ch450 Drainage 1500dia.	36	24-Oct-22 A	12-Aug-23
TSW-4457	TWSRW Ch400-Ch450 Sewerage DN600	36	29-Nov-22 A	12-Aug-23
TSW-4459	TWSRW Ch400-Ch450 Utility - Gasmain N/B Lane	18	24-Jul-23	12-Aug-23
TSW-4461	TWSRW Ch400-Ch450 Utility - HKT Ducts	18	24-Jul-23	12-Aug-23
TSW-4462	TWSRW Ch400-Ch450 Utility - CTG+HGC+NWT+HKBN+CCTV Ducts	18	24-Jul-23	12-Aug-23
TSW-4463	TWSRW Ch400-Ch450 Road Works+Footpath+Cycletrack	36	14-Aug-23	23-Sep-23
5.4.4 - TWSR-West Ch450 to Ch600				
- Ch450 to Ch600 Footpath				



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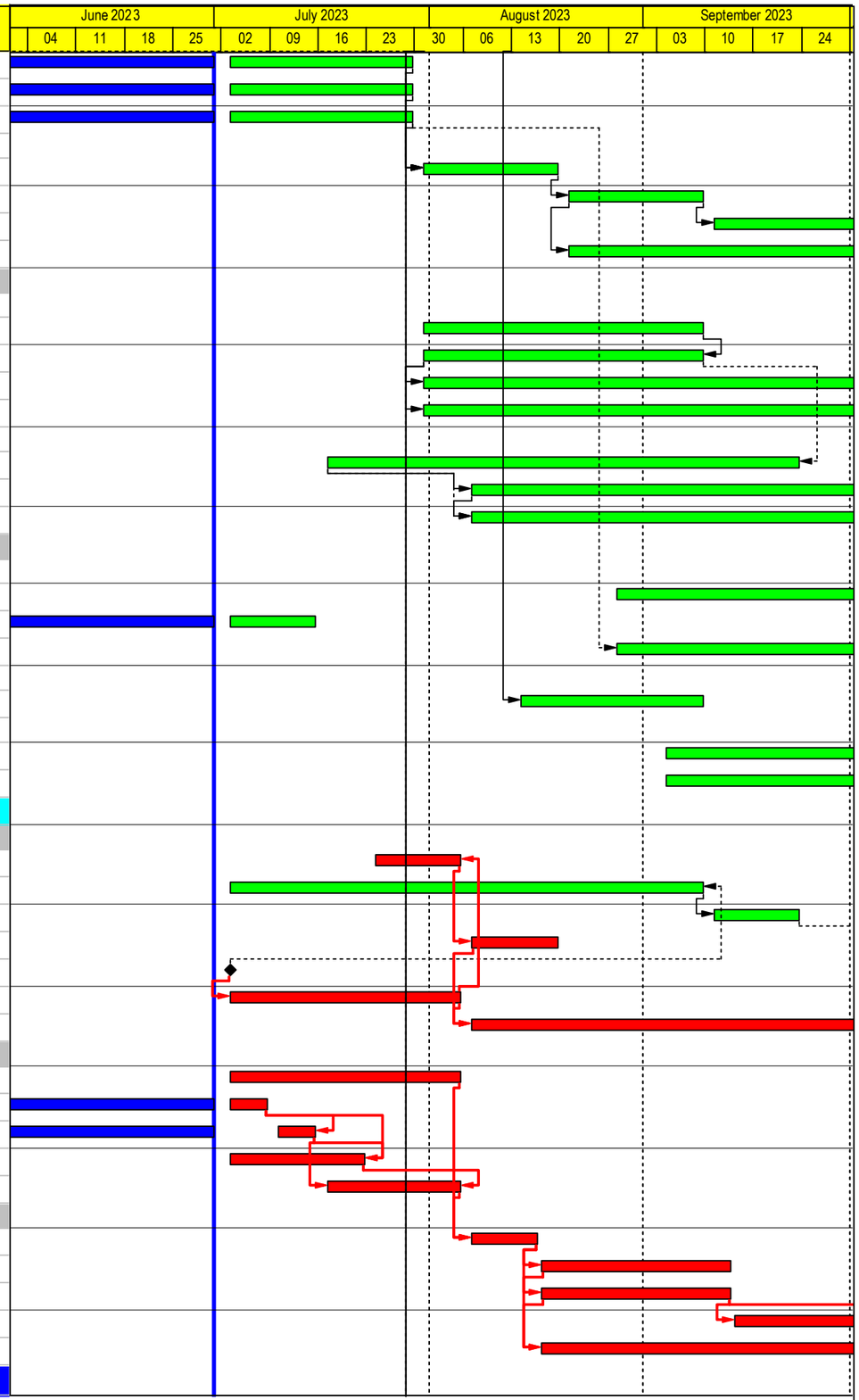
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
TSW-3126	TWSRW Ch450-Ch600 Utility - CLP Ducts 11KV	24	06-Mar-23 A	29-Jul-23
TSW-3127	TWSRW Ch450-Ch600 Utility - HKT Ducts	24	27-Mar-23 A	29-Jul-23
TSW-3128	TWSRW Ch450-Ch600 Utility - CTG+HGC+NWT+HKBN+CCTV Ducts	24	27-Mar-23 A	29-Jul-23
- Lift				
TSW-4540	HKY Footbridge West Ext. - Pipe Piles	18	31-Jul-23	19-Aug-23
TSW-4541	HKY Footbridge West Ext. - Excavation	18	21-Aug-23	09-Sep-23
TSW-4542	HKY Footbridge West Ext. - Pad Footing	18	11-Sep-23	03-Oct-23
TSW-4550	HKY Footbridge West Ext. - Lift & FB Steel Fabrication	72	21-Aug-23	15-Nov-23
5.4.5 - TWSR-West Ch600 to Ch800				
- Ch600 to Ch800 Slope Works				
TSW-1140	Slope FS04 - Top Slope Berm Drainage	36	31-Jul-23	09-Sep-23
TSW-1150	Slope FS04 - Bottom Slope Berm Drainage	36	31-Jul-23	09-Sep-23
TSW-1155	Existing Feature 3SW-C/C360 Soil Nail	120	31-Jul-23	20-Dec-23
TSW-1160	Existing Feature 3SW-C/C430 Soil Nail	120	31-Jul-23	20-Dec-23
- Ch600 to Ch800 Road Works				
TSW-1183	TWSRW Ch600 to Ch800 N/B - Drainage and Gully	60	17-Jul-23	23-Sep-23
TSW-1184	TWSRW Ch600 to Ch800 N/B - Road Lighting Including Cabling	60	07-Aug-23	17-Oct-23
TSW-1185	TWSRW Ch600 to Ch800 N/B - Roadworks+Footpath+Cycletrack	78	07-Aug-23	08-Nov-23
5.4.6 - Existing Utility Diversion				
- TWSRW Divert Existing Utilities				
TSW-8810	TWSRW Gasmain Diversion	90	28-Aug-23	13-Dec-23
TSW-8840	TWSRW CLP 132kV - Existing Cable Removal	12	02-May-23 A	15-Jul-23
TSW-8850	TWSRW Telecom - Cable Diversion	90	28-Aug-23	13-Dec-23
- Sewerage Diversion				
TSW-8860	TWSRW Existing Sewerage Diversion Stage 1	24	14-Aug-23	09-Sep-23
- Watermain Diversion Stage 1				
TSW-5750	TWSRW DN450 WM Diversion Stage 1 - Temp Connection Pipe	30	04-Sep-23	10-Oct-23
TSW-8775	TWSRW DN150 WM Diversion Stage 1 - Temp Connection Pipe	30	04-Sep-23	10-Oct-23
5.5 - Jockey Club Road				
5.5.2 - Tong Hang Village Road (THV Road)				
JCR-2180	THV TTA Stage 1 Implementation	12	24-Jul-23	05-Aug-23
JCR-2181	THV Road N/B - Application for Lighting Removal	60	03-Jul-23	09-Sep-23
JCR-2182	THV Road N/B - Lighting Removal/Install Temporary Lighting	12	11-Sep-23	23-Sep-23
JCR-2185	THV Road N/B Footpath - Site Clearance	12	07-Aug-23	19-Aug-23
JCR-2190	THV Road N/B - Issue PMI for Ret Wall FW51	0	03-Jul-23	
JCR-2193	THV Road N/B - Ret Wall FW51 Preparation Work	30	03-Jul-23	05-Aug-23
JCR-2195	THV Road N/B - Ret Wall FW51 Construction	90	07-Aug-23	22-Nov-23
5.5.3 - North Bound				
JCR-2380	JCR N/B - Slope Works FS05 - Existing Soil Nail Removal	30	03-Jul-23	05-Aug-23
JCR-2420	JCR N/B - Road Formation	6	15-Mar-23 A	08-Jul-23
JCR-2430	JCR N/B - Drainage Works	6	15-Mar-23 A	15-Jul-23
JCR-2440	JCR N/B - Utility Install/Traffic Light Civil Provision	18	03-Jul-23	22-Jul-23
JCR-2450	JCR N/B - Temp Road and Remove Central Barrier for TTA Stage 2	18	17-Jul-23	05-Aug-23
5.5.5 - South Bound				
JCR-2600	JCR TTA Stage 2A Implementation	9	07-Aug-23	16-Aug-23
JCR-2610	JCR S/B Slow Lane - Drainage Works	24	17-Aug-23	13-Sep-23
JCR-2620	JCR S/B Slow Lane - Utility Install/Road Lighting	24	17-Aug-23	13-Sep-23
JCR-2625	JCR S/B Slow Lane - Traffic Signal Ducts and Drawpits	24	14-Sep-23	13-Oct-23
JCR-2630	JCR S/B Slow Lane - Road Paving/Marking	48	17-Aug-23	13-Oct-23
6.0 - TCSS Works				



Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

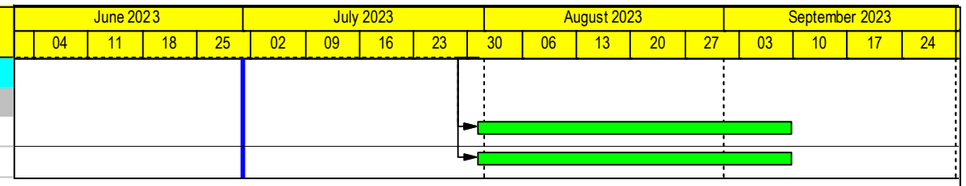
Three-Month Rolling Programme

Project ID : DPr16-4
Layout : 3MRP EPD
Date : 05-Jul-23 / Page 7 of 8

3MRP

Date	Revision	Check...	Approved
03-Jul-23	Draft		

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
6.1 - Key Date 1				
6.1.2 - TWSRE & FH S/B				
TCS-132	TCSS Ducts - TWSRE Inside the New BBI	36	31-Jul-23	09-Sep-23
TCS-134	TCSS Ducts - TWSRE Along New BBI Entrance Road	36	31-Jul-23	09-Sep-23



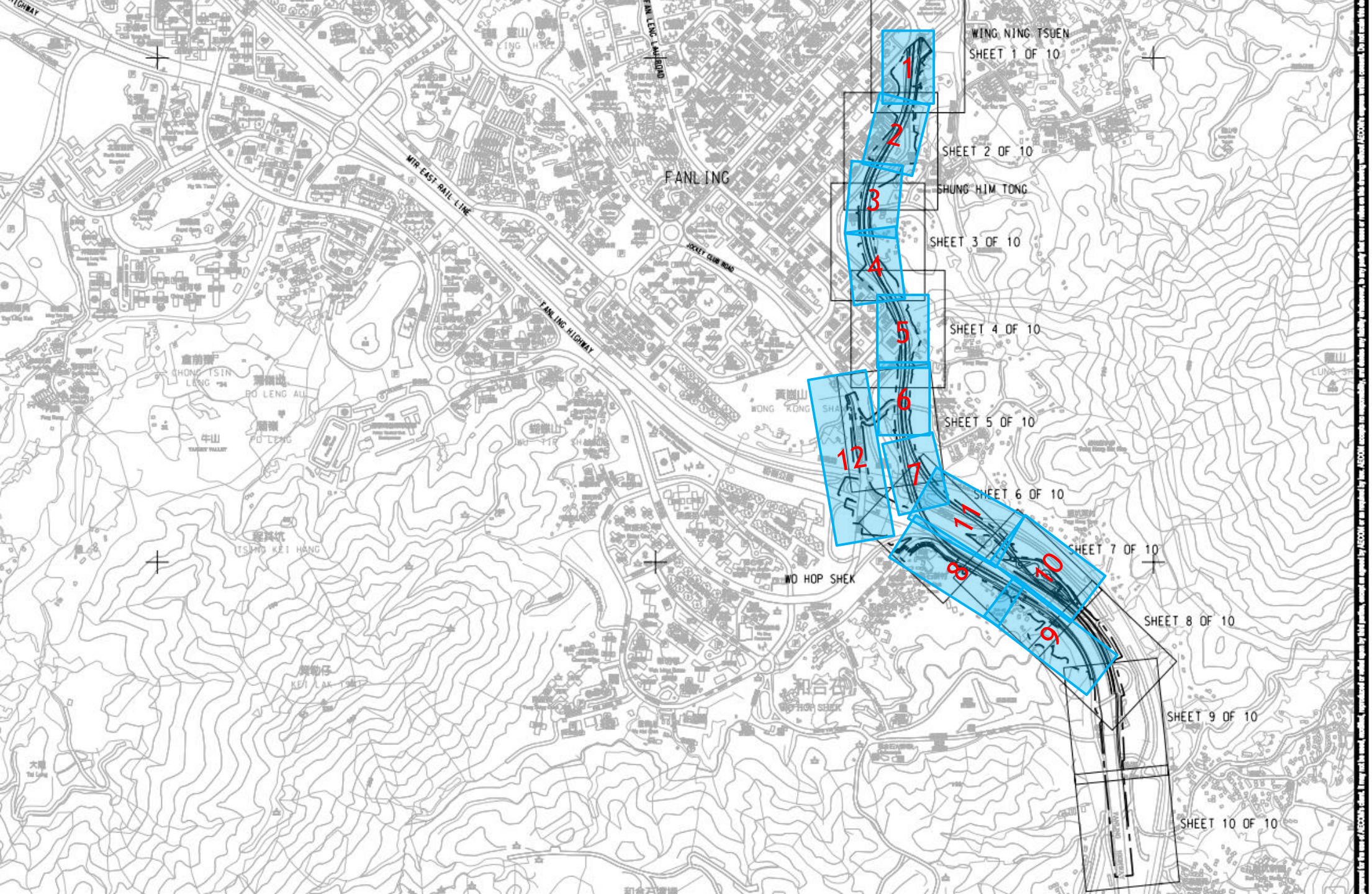
Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : DPr16-4
Layout : 3MRP EPD
Date : 05-Jul-23 / Page 8 of 8

3MRP			
Date	Revision	Check...	Approved
03-Jul-23	Draft		



CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

-	JUN-19	TENDER DRAWING	RPCM
REV.	DATE	DESCRIPTION	CHK.

STATUS

SCALE
A1 1 : 7000

DIMENSION UNIT
METRES

KEY PLAN

PROJECT NO.
60335576

CONTRACT NO.
ND/2019/05

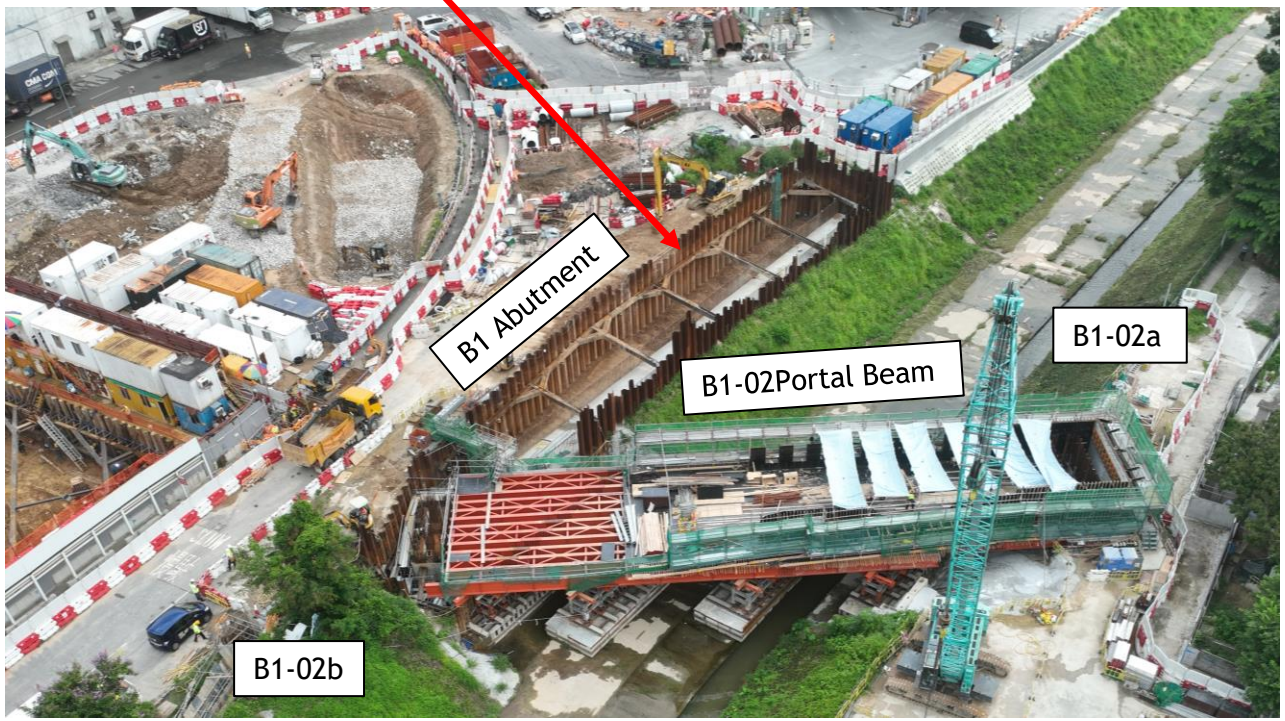
SHEET TITLE
KEY PLAN AND LOCATION PLAN

1 North Team

B1-01M (On Kui St)
- Bitumen Painting, Geotextile, Mira Drain and subsoil drain installation completed
- Concrete Block Retaining Wall Installation Completed
- Backfilling in progress (5/10 Layers Completed)
- Wall - ES: 01/03/23 EF: 15/05/23
- Wall - LS: 26/02/24 LF: 08/04/24
- **On track against R15**

Concrete Block Retaining Wall Installation Completed

Bitumen Painting & geotextile installation completed



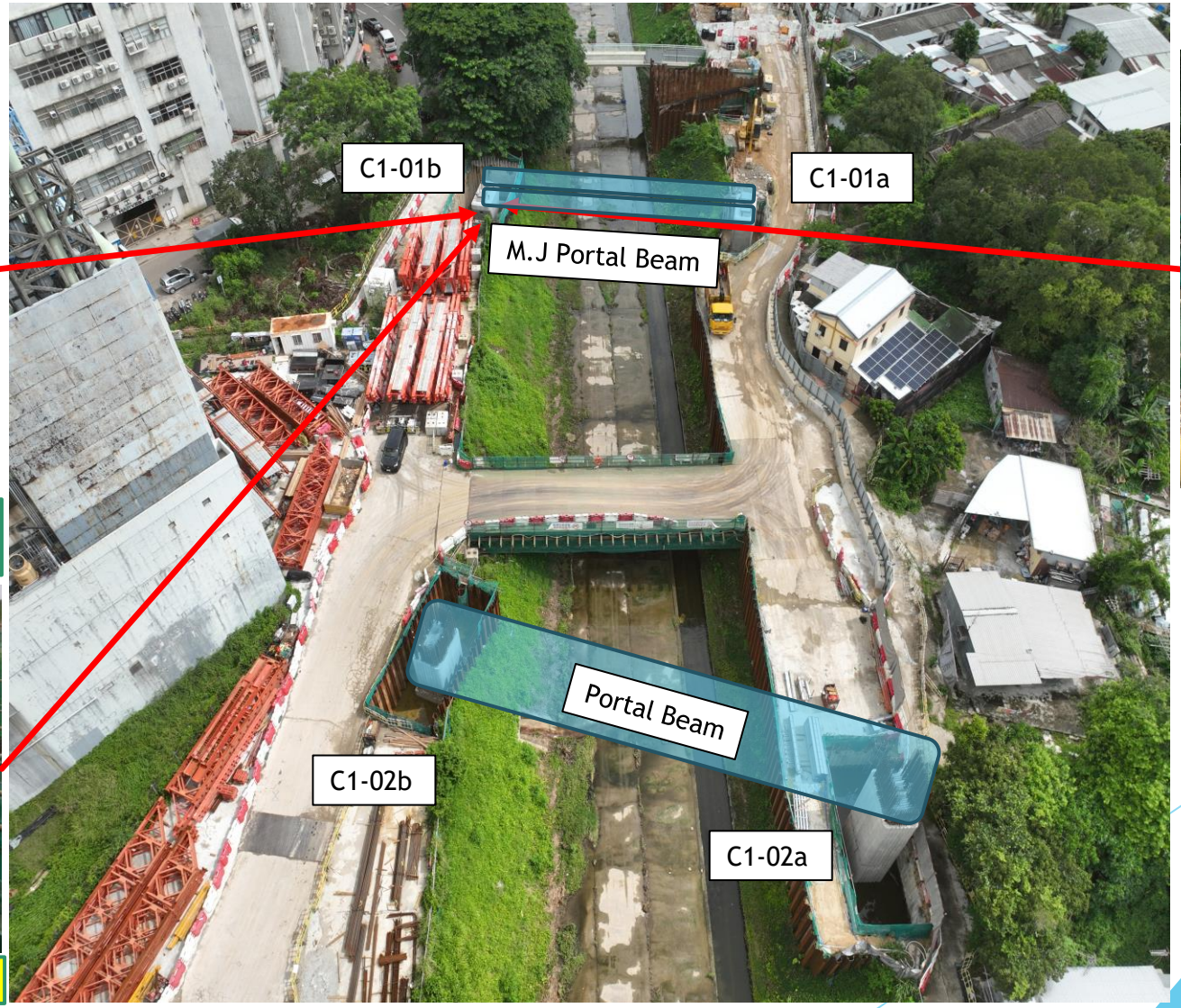
Backfilling in Progress

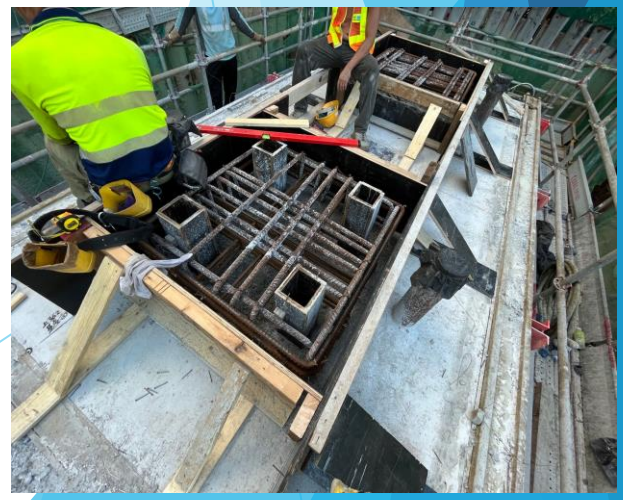
2 Pier & Portal Team

C1-01b pier head
- C1-01a pier head completed on 17/05/23
  Pier head
  - ES: 13/02/23 EF: 19/05/23
  - LS: 23/12/23 LF: 06/01/24
- **Ahead against R15**

C1-01b pier head concreting completed on 17/05/23

C1-01a bearing completed on 25/05/23



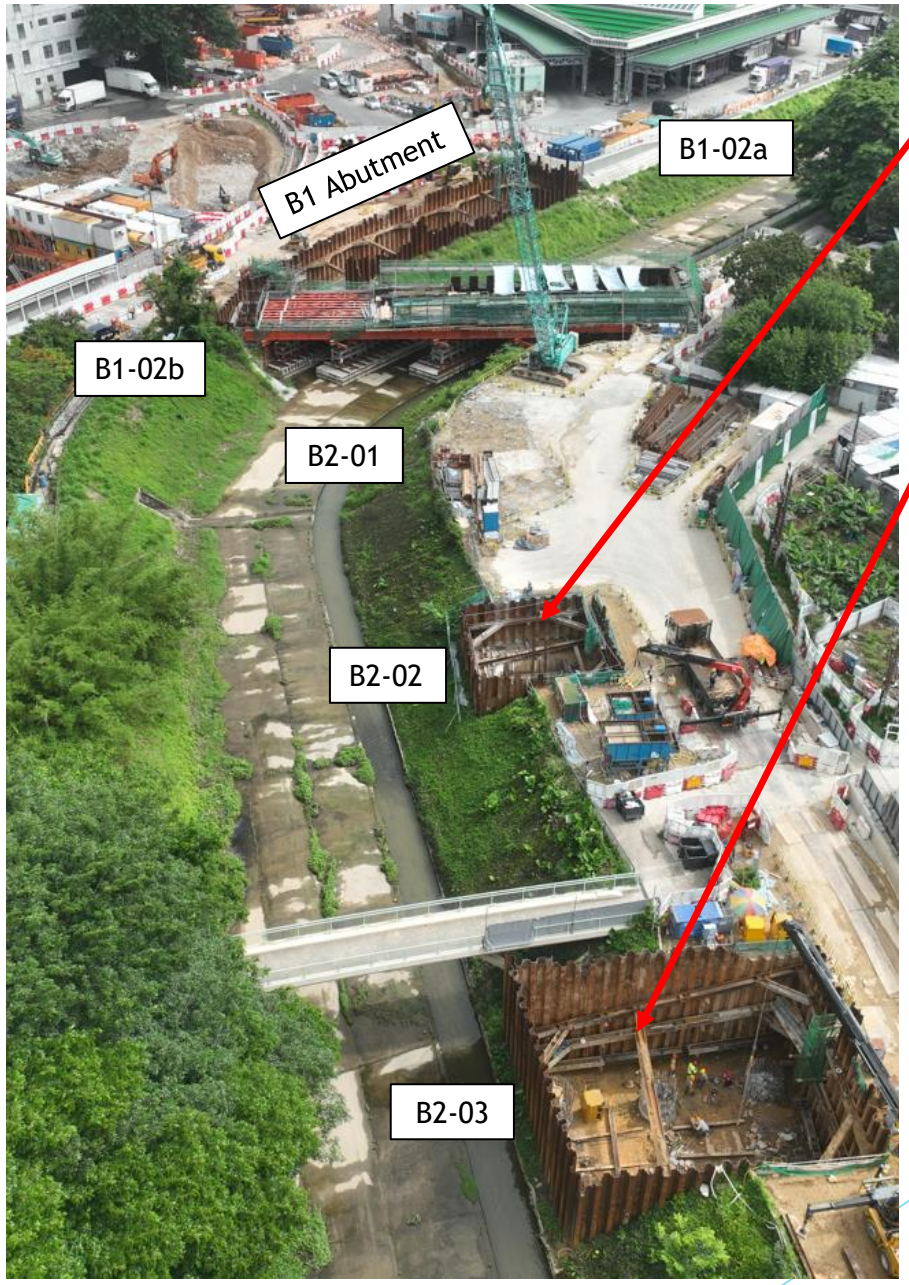


C1-01b bearing plinth completed on 20/05/23

2 North Team

B2-02 Cap Concreted, 1st & 2nd layer of strut removed

B2-03 3rd ELS strut layer strut installation completed



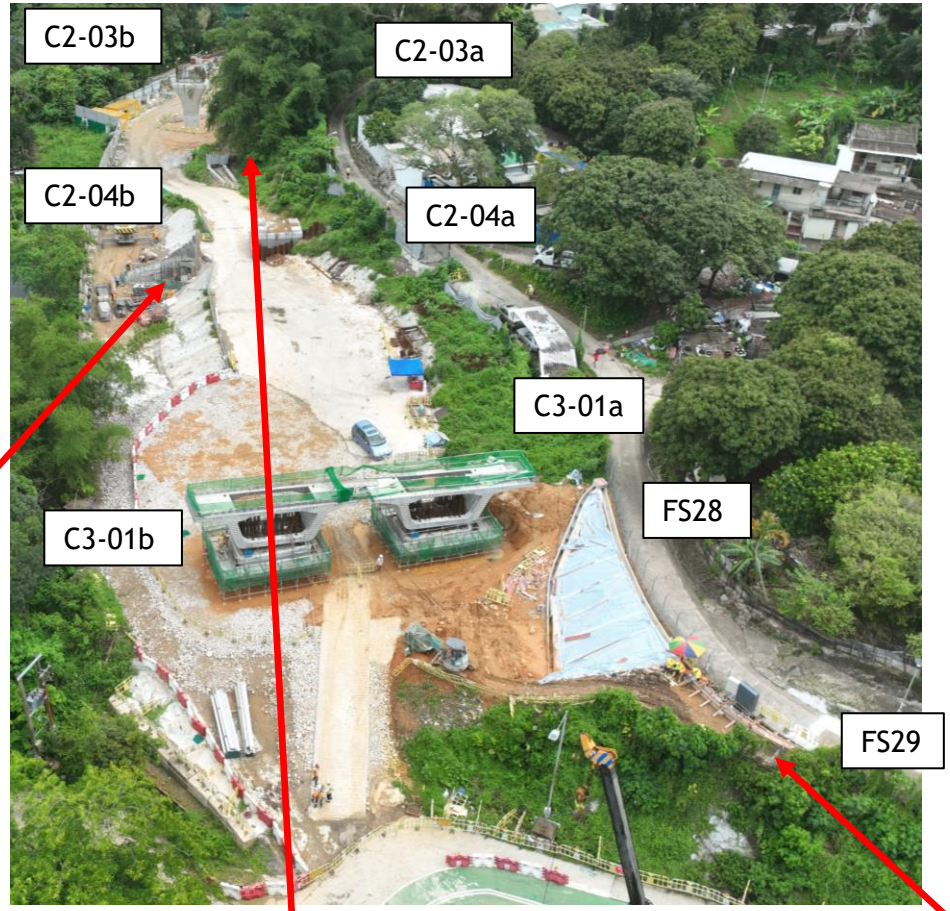
B2-02 (Shum Him Tong)
- B2-02 Rebar Fixing Works Completed
- B2-02 Cap Concreted on 13/05/23
- 1st & 2nd Layer of Strut Removed
- Pile Cap - ES: 22/04/23 EF: 29/05/23
- Pile Cap - LS: 14/02/24 LF: 19/03/24
- **Ahead against R15**

B2-03 (Shum Him Tong)
- 3rd ELS strut layer strut installation completed
- Blinding Layer Casted on 03/06/23
- Bored Piles Head Breaking in Progress
- ELS Excavation - ES: 22/03/23 EF: 29/04/23
- ELS Excavation - LS: 03/01/24 LF: 26/01/24
- **On Track against R15**

B2-03 Blinding Layer Cast, Bored Piles Head Breaking in Progress

3 North Team

C2-04b pile cap rebar fixing completed on 03/06/23



Portion 5 (On Lok Garden)
C2-04b
- Pile Cap rebar fixing commenced on 30/05/23 and completed on 03/06/23
- Pile cap concreted on 05/06/23
- ELS + Cap - ES: 14/03/23 EF: 06/06/23
  - LS: 03/05/23 LF: 04/07/23

On track against R15

C2-03a & b
- Backfilling to F.G.L.
- Backfilling- ES: 17/05/23 EF: 07/06/23
  - LS: 04/10/23 LF: 25/10/23

On track against R15

Slope FS28
- Drainage and cut slope construction in progress

C2-04b pile cap completed and handed over to Pier Team on 08/06/2023

C2-03a and C2-03b backfilling to F.G.L. completed on 30/05/23 and 27/05/23 respectively

Slope FS28 drainage construction in progress

CEDD Contract no. ND/2019/05
Fanling North New Development Areas,
Phase 1 : Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)

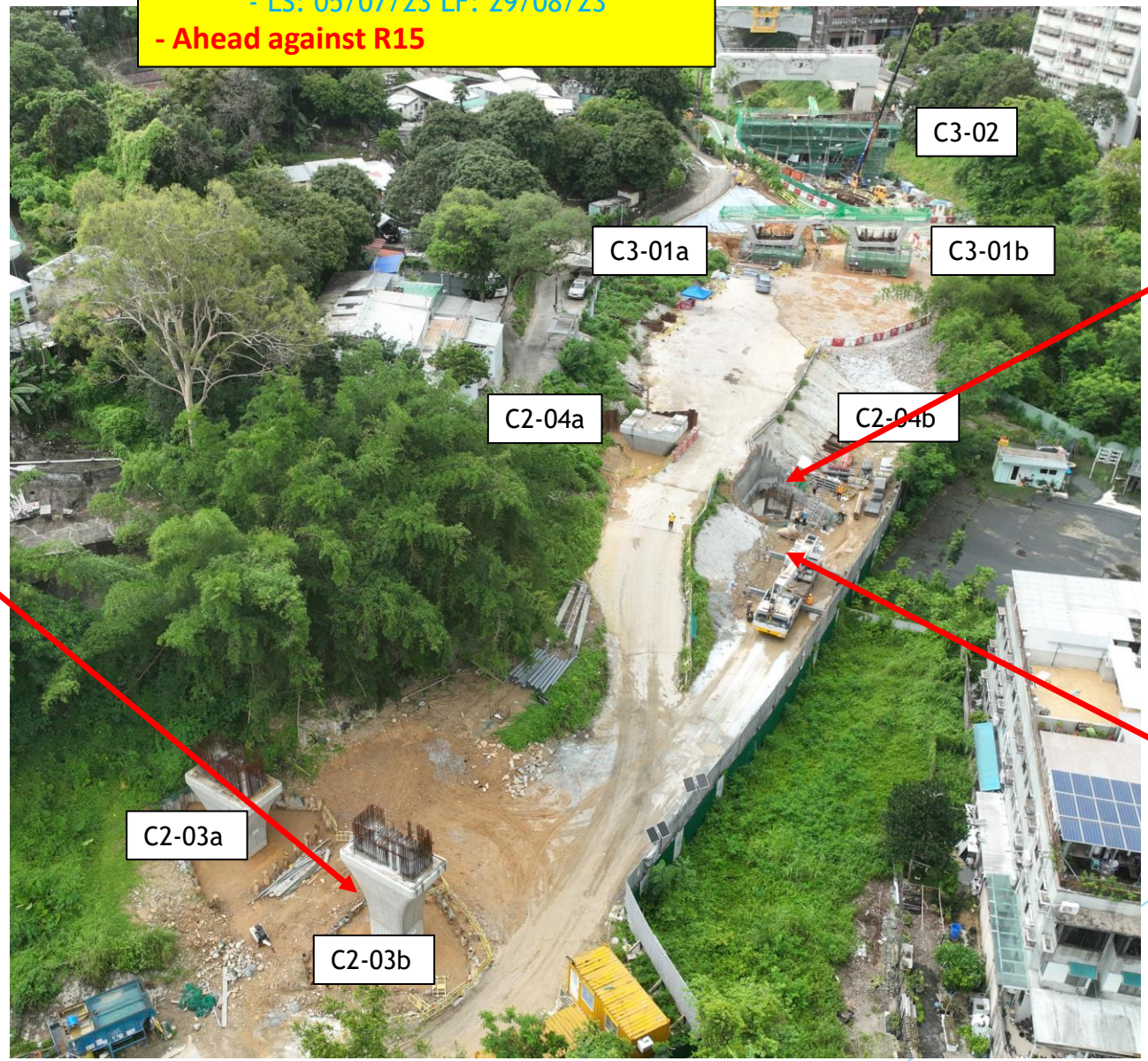
Viaduct

Segments Erection by Crane (Bridge E1 and D1)

- C3-01 precast cell erection complete on 30 May.

3 Pier & Portal Team

Portion 5 (On Lok Garden)
C2-04b Pier & Pier head
Kicker completed on 08/06/23
- Pier + Pier head
  - ES: 07/06/23 EF: 03/08/23
  - LS: 05/07/23 LF: 29/08/23
- **Ahead against R15**



C2-03b hand over to backfilling works on 22/05/23

C2-04b pier construction in progress

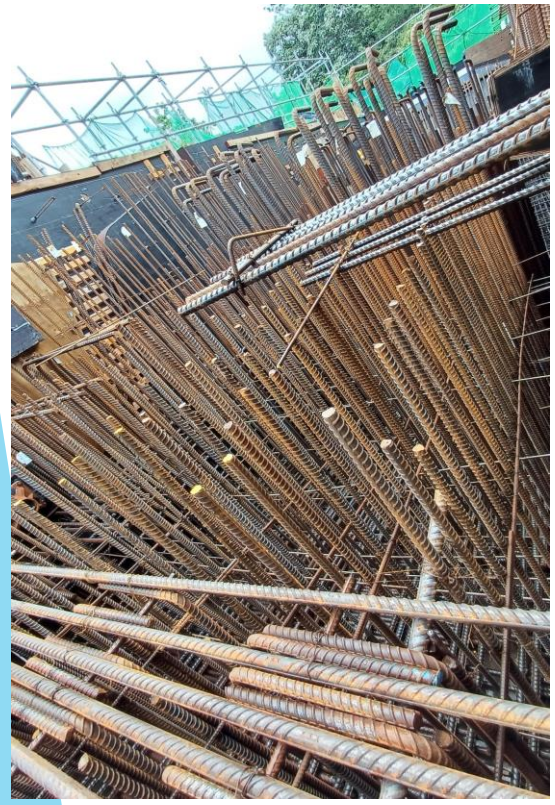
C2-04b pier kicker completed on 09/06/23

3 Pier & Portal Team

Portion 4
C2-02 cross head Construction
- C2-02 cross head in progress
- Cross head – ES: 14/02/23 EF: 28/06/23
  - LS: 01/11/23 LF: 23/01/24

1st pour concreting completed by 11/06/23

- **Ahead against R15**



Rebar fixing at C2-02 cross head (2nd pour) in progress

C2-02 cross head (1st pour) completed on 08/06/23

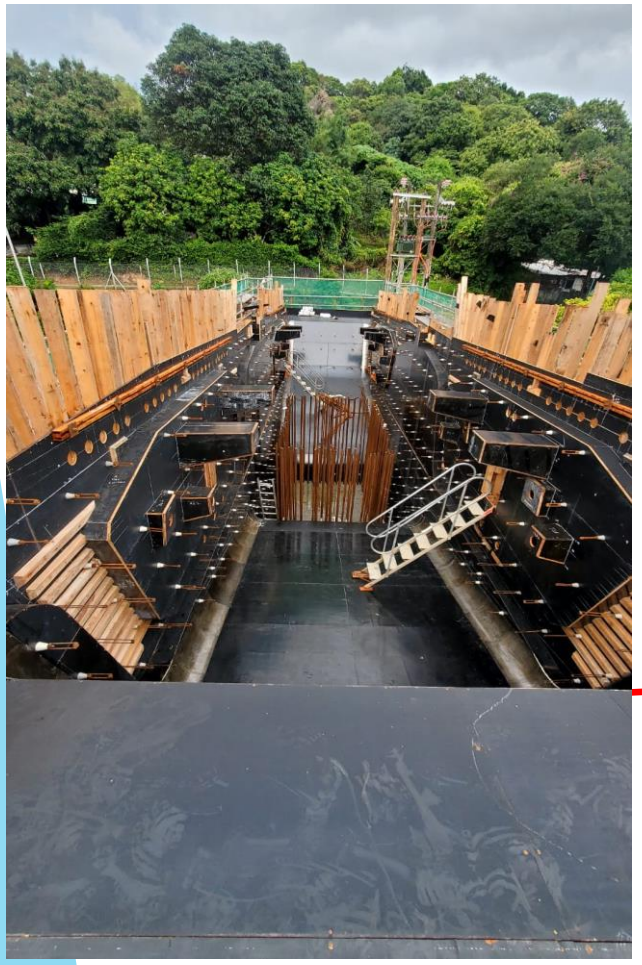
4

- Pier & Portal Team

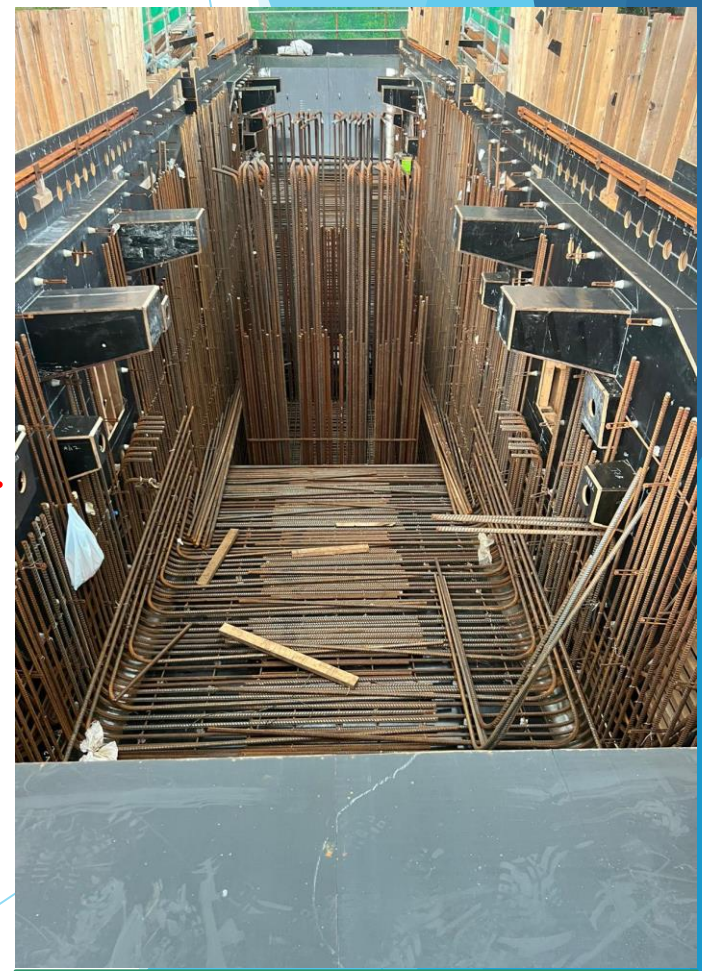
Area Highlighted

- Cross head – C3-02

Portion 6 (Village side)
C3-02 Cross Head Construction in Progress
Cross head - ES:01/02/23 EF:29/06/23
- LS:01/06/23 LF:23/08/23
Target 1st pour concreting by 17/06/23
- **On track against R15**

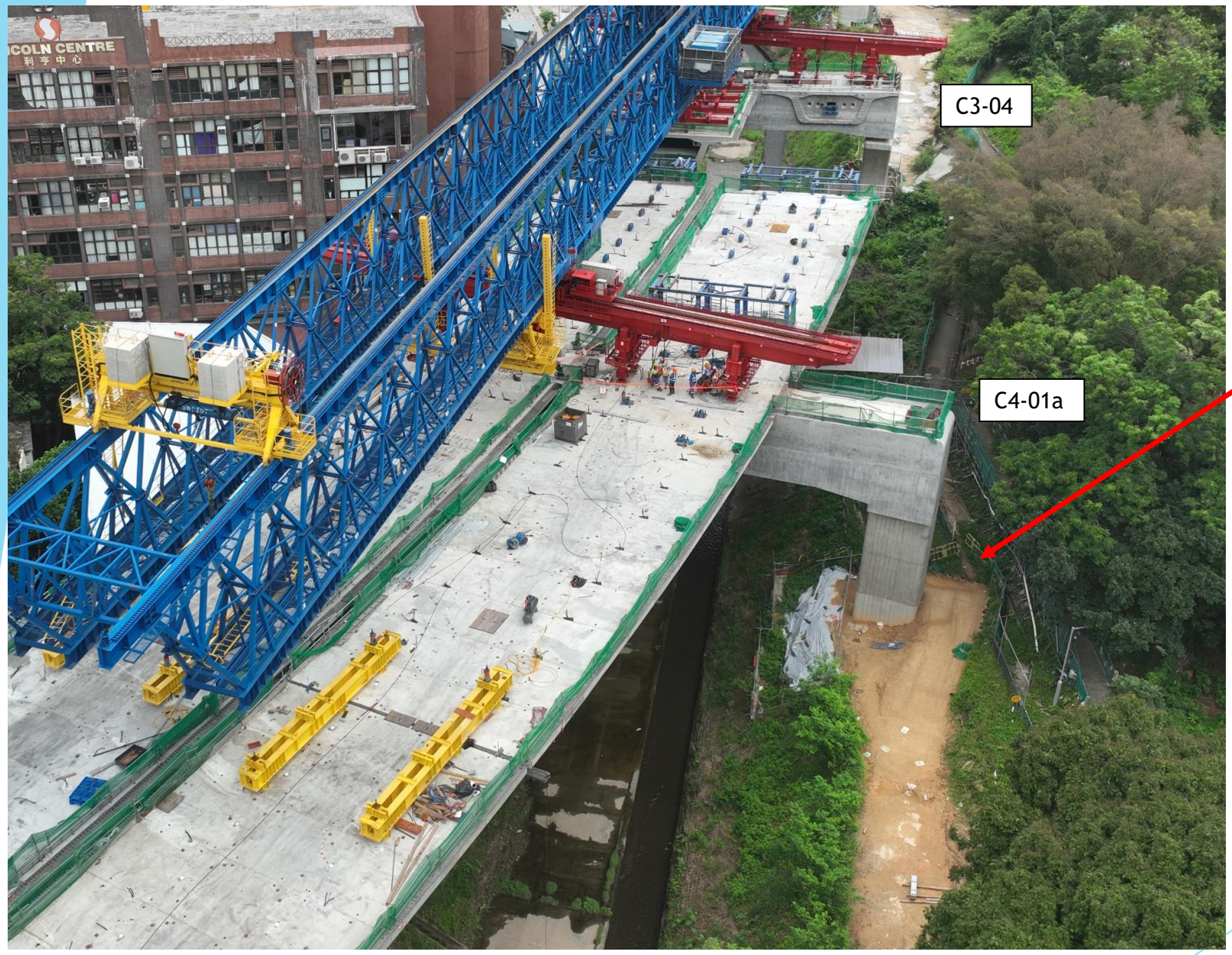


Side Formwork at C3-02 cross head construction completed on 29/05/23



Rebar Fixing at C3-02 cross head construction in progress

North Team



Portion VI (Tai Wong Yeh)
Pier C4-01a
- Backfilling to E.G.L. (+13.6mPD) in progress.
Backfilling - ES: 01/04/23 EF: 26/04/23
- LS: 26/04/25 LF: 19/05/25

C4-01a backfilling to +13.4mPD. SRT carried out on 31/05/23.

CEDD Contract no. ND/2019/05
Fanling North New Development Areas,
Phase 1 : Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Han

Viaduct **Launching Girder (Bridge C4)**

- LG launched to Pier C3-04 from 19 May~22 May.
- Total 140 segments erected by LG.

Separation of persons and vehicles

Main support moving forward

C3-04bM end span

5

- Pier & Portal Team

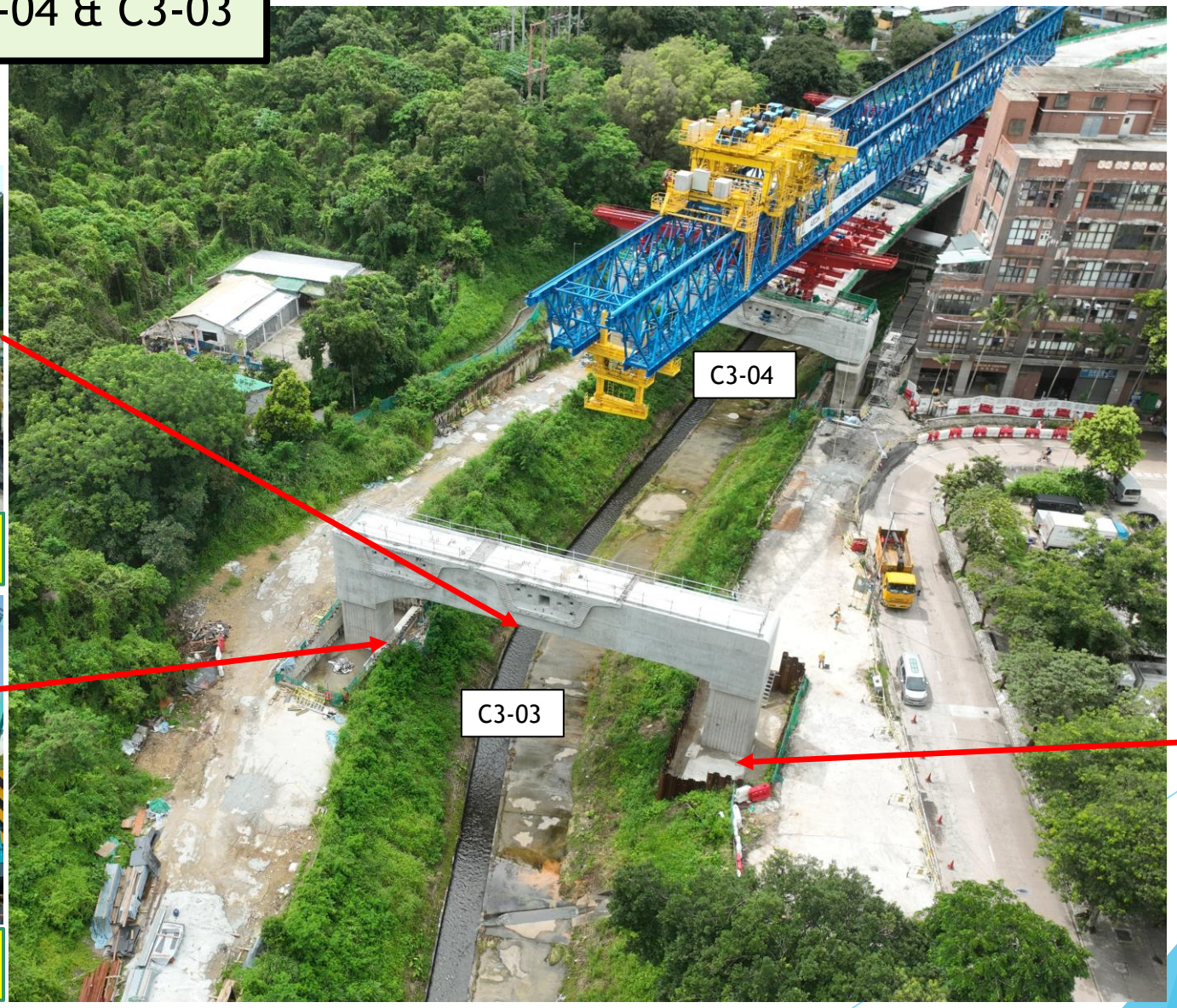
  Area Highlighted

  - Portal Beam - C3-04 & C3-03

Portion 6 (Village side)
C3-03 Portal Beam Construction completed
- Portal beam - ES:01/03/23 EF:04/05/23
  LS:17/05/22 LF:14/06/23
- **Ahead against R15**

Dismantling of truss at C3-03 Portal Beam completed on 19/05/23

Dismantling of steel bracket at C3-03 Portal Beam completed on 01/06/23



C3-03 Portal Beam completed hand over to bridge team on 07/06/23

Viaduct

Segments Erection by Crane (Bridge E1 and D1)

E1-04 Plate load test

CEDD Contract no. ND/2019/05
Fanling North New Development Areas,
Phase 1 : Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)

Viaduct

Segments Erection by Crane (Bridge E1 and D1)


D1-04 site formation


E1-04 Plate load test

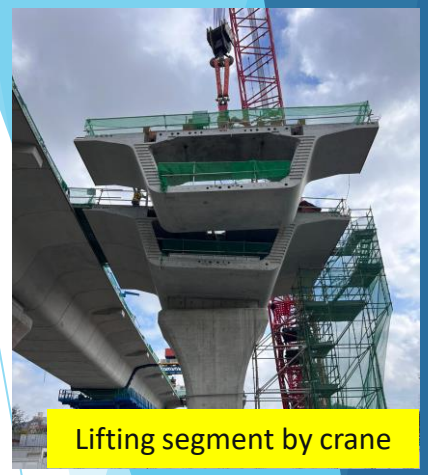
CEDD Contract no. ND/2019/05
Fanling North New Development Areas,
Phase 1 : Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)

Viaduct

Segments Erection by Crane (Bridge E1 and D1)

- T-span segments at pier D1-01 & E1-01 complete.
- C4-04bM to D1-01 end span segments erection complete.

Mono-strand External tendon



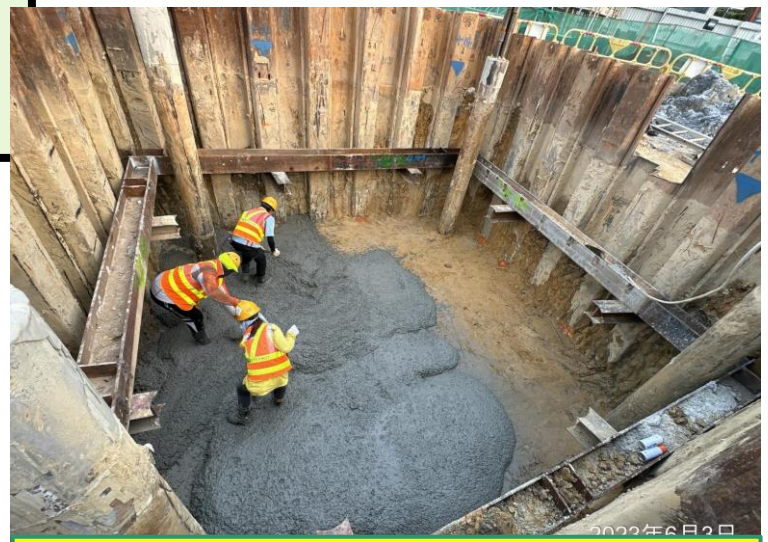
Lifting segment by crane

TTA for segment erection

North Team

Area Highlighted –D2-01

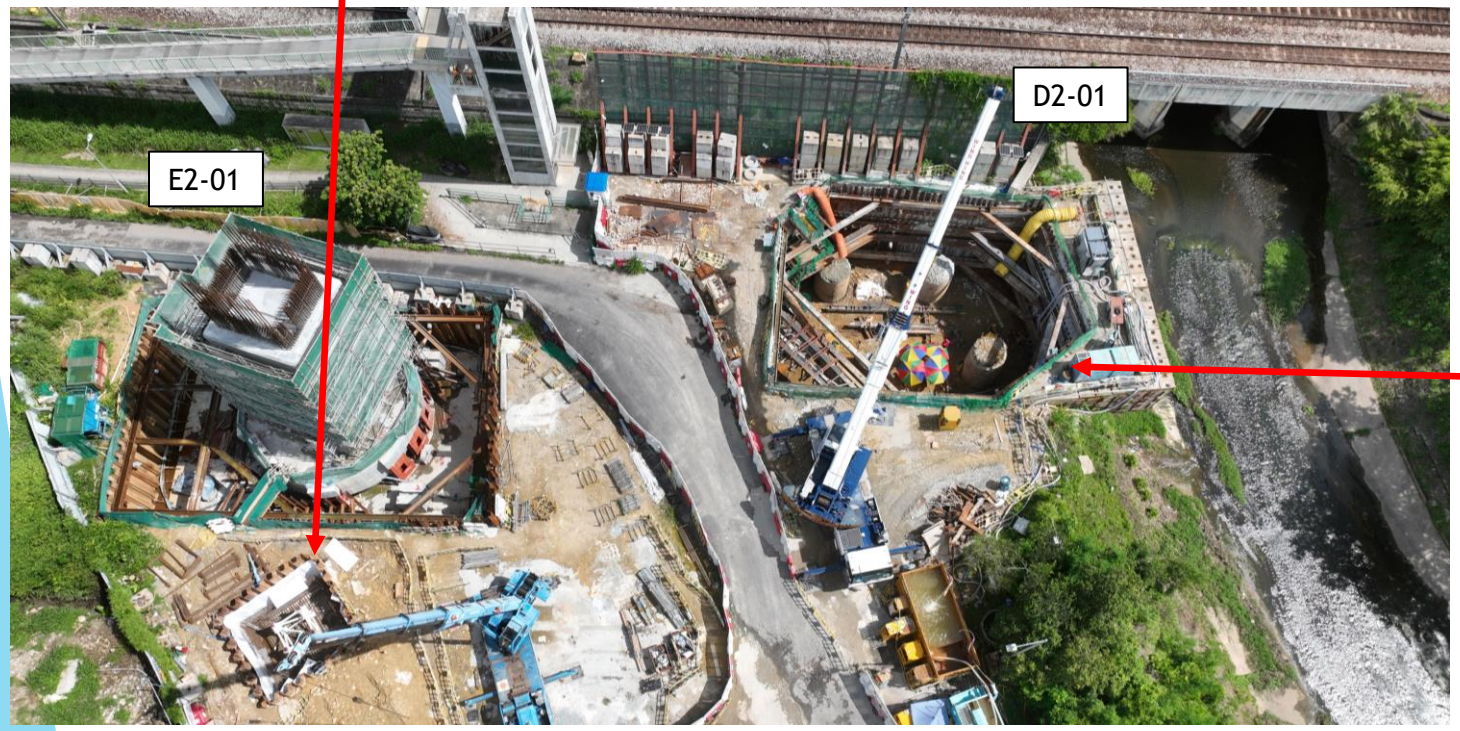
E2-01 Tower Crane Pile Cap rebar fixing in progress.



E2-01 Tower Crane foundation ELS and blinding layer completed on 03/06/23

Portion 8 (MTR trackside)
E2-01 Tower Crane Foundation
- Sheet piling commenced on 25/05/23 and completed on 29/05/23
- Excavation, shoring system and blinding layer completed on 03/06/23

D2-01
- 3rd layer strut and waling completed on 22/05/23
- Excavation to F.E.L. completed on 06/06/23
- 4th layer strut and waling in progress, cast blinding layer on 12/06/23
- D2-01 ELS + Grouting + Excavation
  - ES:15/11/22 EF:12/06/23
  - LS:01/04/22 LF:12/06/23
- **On tack against R15**



D2-01 Excavation to F.E.L. completed. 4th layer strut and waling in progress.

Viaduct

Bridge Rotation

E2-01 Tower Crane on 09/06/2023

D2-01 steel shear support fabrication

7

- Pier & Portal Team

  Area Highlighted

  - Rotation bridge- E2-01 pier

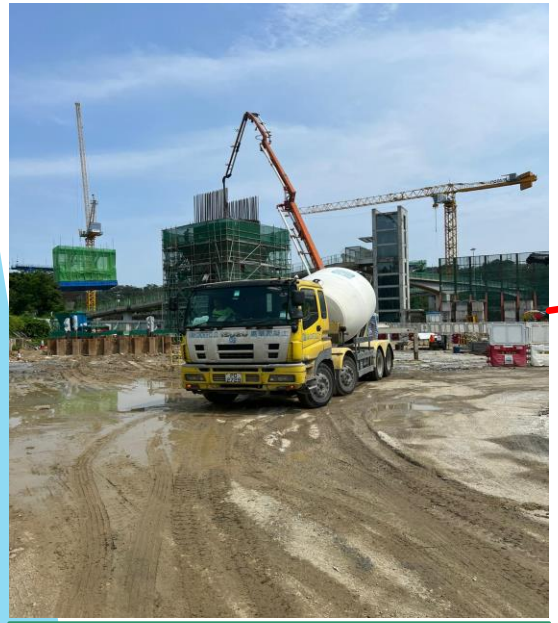
Rotation Bridge at Pier E2-01

Pier head Construction in Progress

- Pier head - ES: 12/04/23 EF:23/06/23
  LS: 24/05/23 LF:29/06/23

Pier head (2nd pour) concreting completed on 01/06/23

- **Ahead against R15**



E2-01 pier head (2st pour) concreting completed on 01/06/23

Dismantling of E2-01 steel mould at pier head (2nd pour) completed on 07/06/23

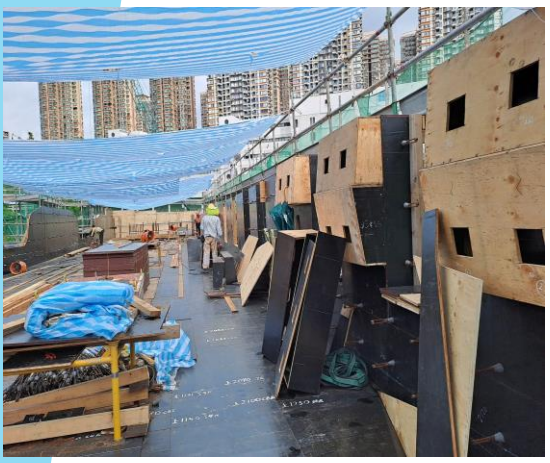
1

Pier & Portal Team

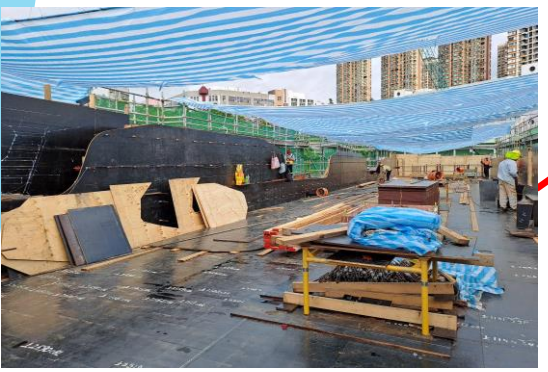
Area Highlighted – B1-02 Portal Beam

Portion 1 (On Kui St)
B1-02 Portal Beam
- ES:01/03/23 EF:12/08/24
- LS:15/07/24 LF:19/11/24
- **Target portal beam concreting by 30/06/23**
- **On Track against R15**

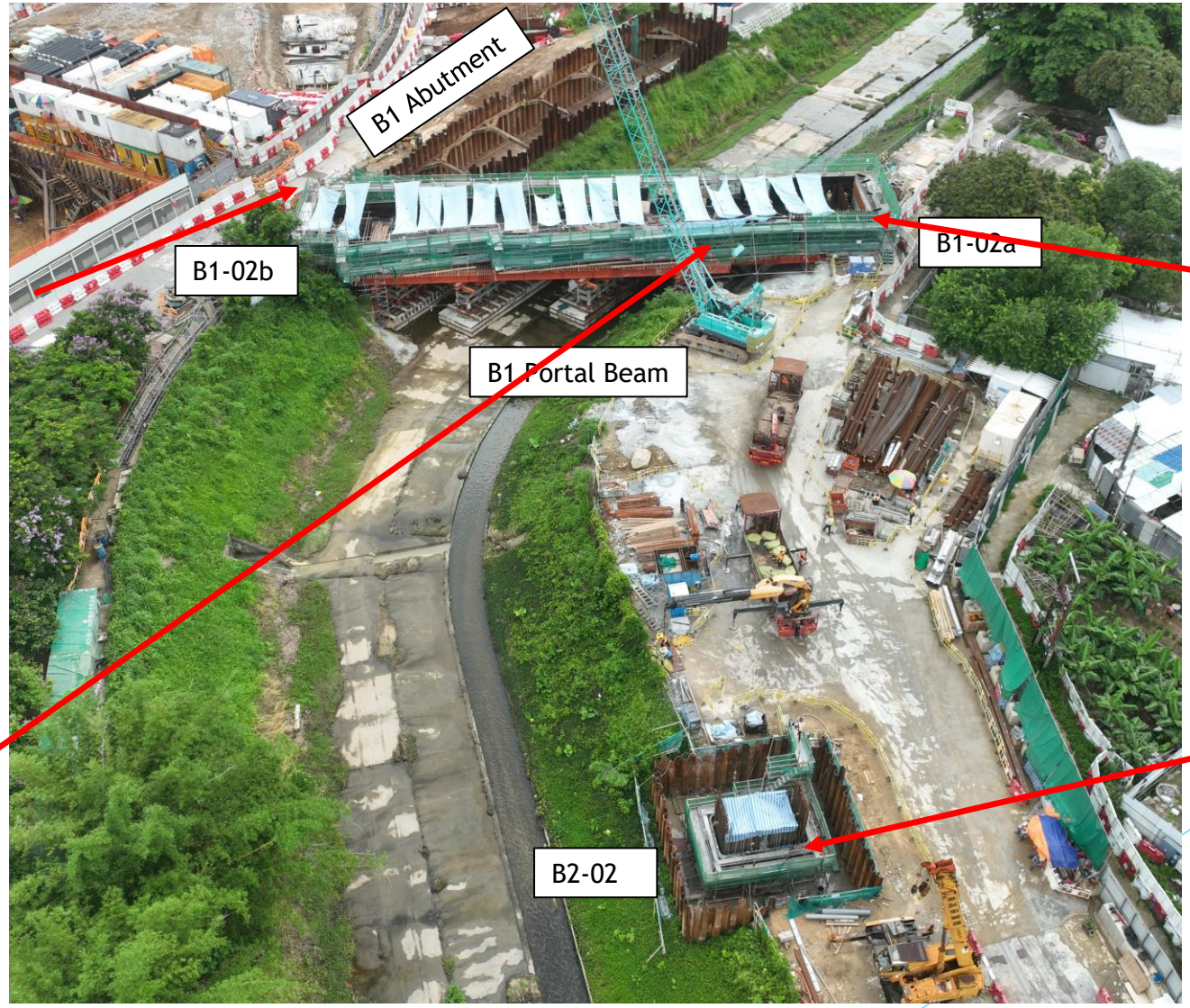
Portion 1 (On Kui St)
B2-02 Pier
- B2-02 pier completed on 09/06/23
- ES:30/05/23 EF:05/07/24
- LS:20/03/24 LF:27/04/24
- **Ahead against R15**



Side formwork at B1-02a portal beam in progress



Segment kicker formwork at B1-02 portal beam in progress



Soffit formwork at B1-02 portal beam completed on 01/06/23

B2-02 pier construction completed on 08/06/23

8

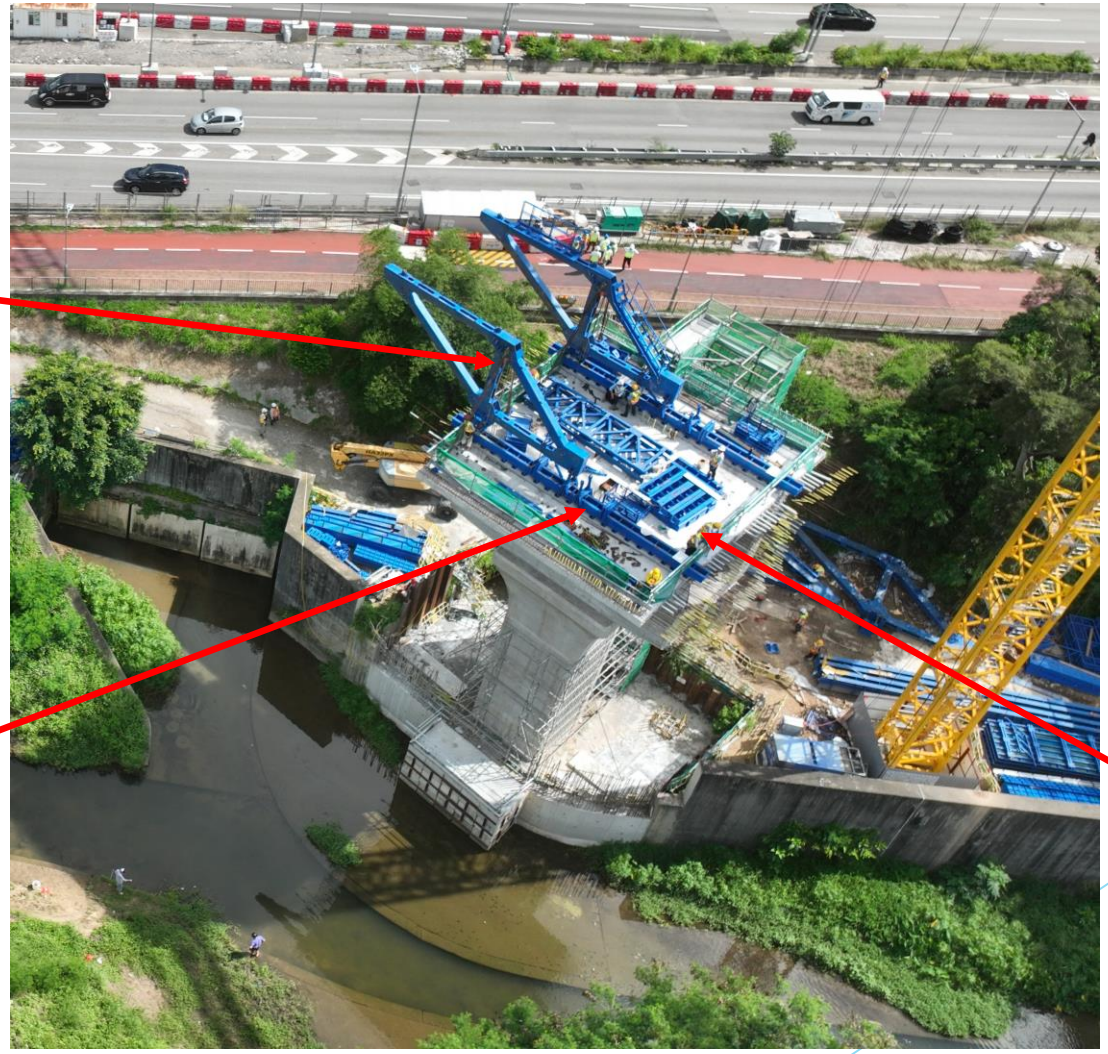
- Form Traveler Team Area Highlighted
  - FT3 (D2-02 T –Span)

FT3: D2-02

- **Installation of FT3 in progress**

- Installation of FT3
  - ES: 06/05/23 EF: 22/07/23
  - LS: 19/05/23 LF: 04/08/23
- **On Track against R15**

Railway beam installation completed on 01/06/23

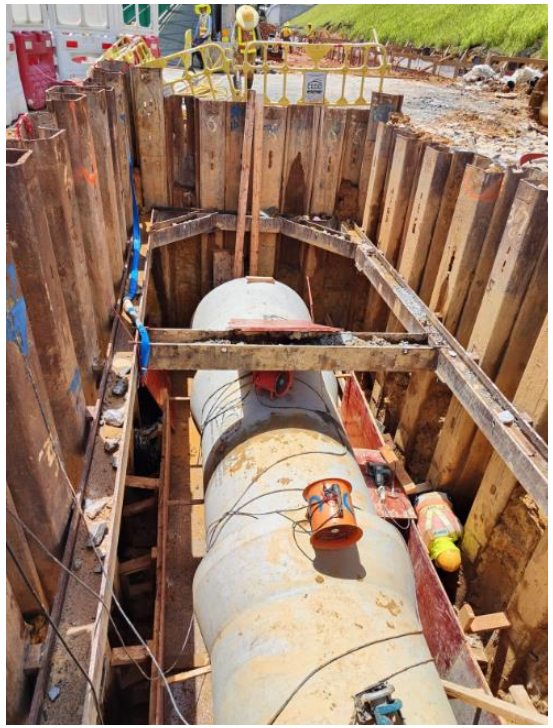


Main frame erection completed on 10/06/23

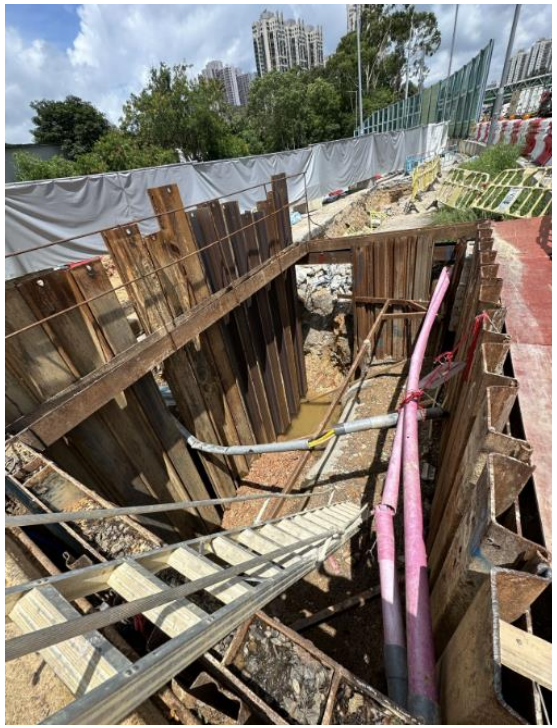
South Team - Highlight

UU work at TWSRW

CLP 11kv cable laying
(Between K.Kee Factory and Entrance of HKY)



1350 dia. drainage pipe laying
(Between FL9103 and FL9102)



Construction work(ELS) of drainage manhole (FL9110)

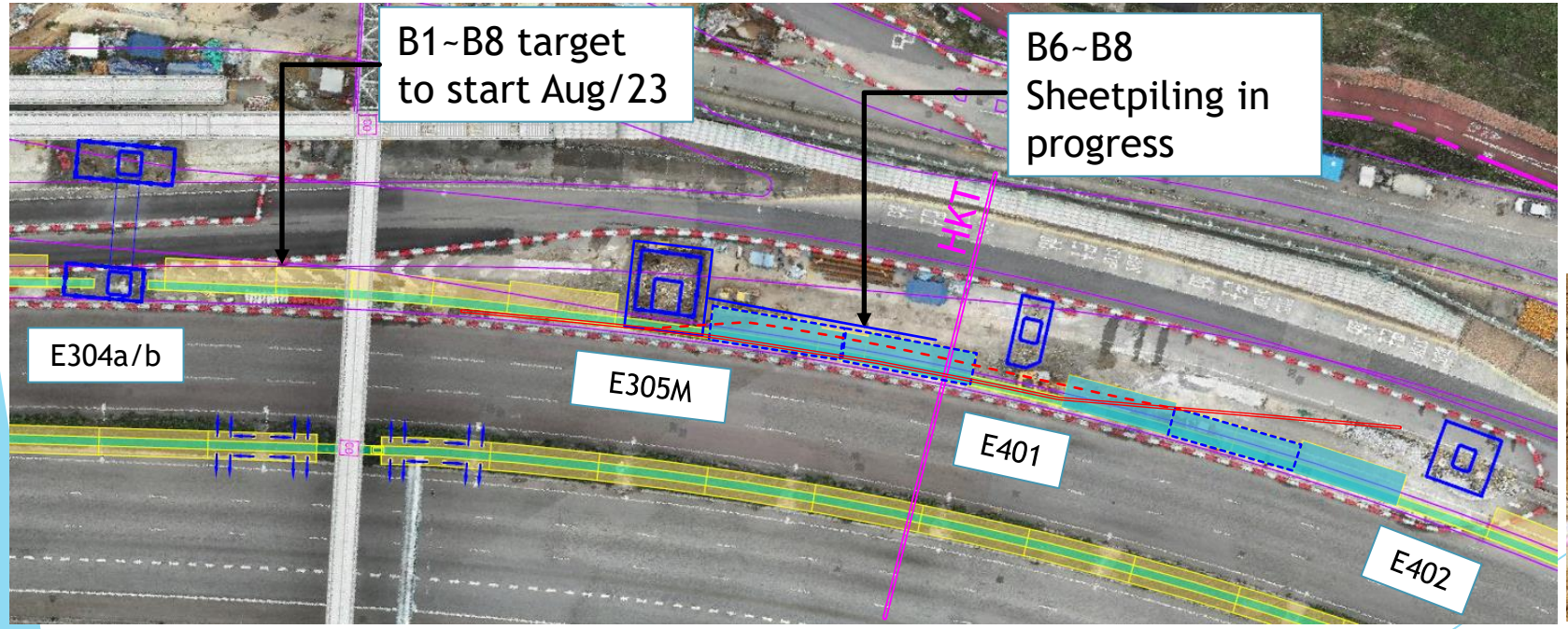
Ducts laying(Telecoms) (Near FS06)

Ducts laying(Telecoms) (Near FS21)

South Team

8. Noise Barrier NB 69
TSE-1515 (R15) ES: 17/11/23 EF:21/12/23
LS: 05/01/24 LF:08/02/24

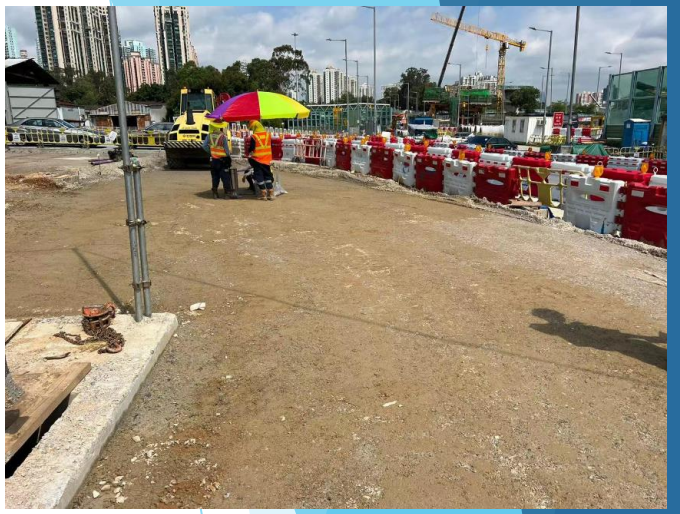
- **LV Cable Slewing in progress**
- **Sheetpiling works will resume 15/06**



South Team

1. TWSRW (CH200 to 400)
   TSW - 4450 (R15) ES: 15/11/22 EF:10/07/23
   LS: 05/05/23 LF:07/08/23
- Road work affected by UU laying work.

FS04 Slope Drainage work

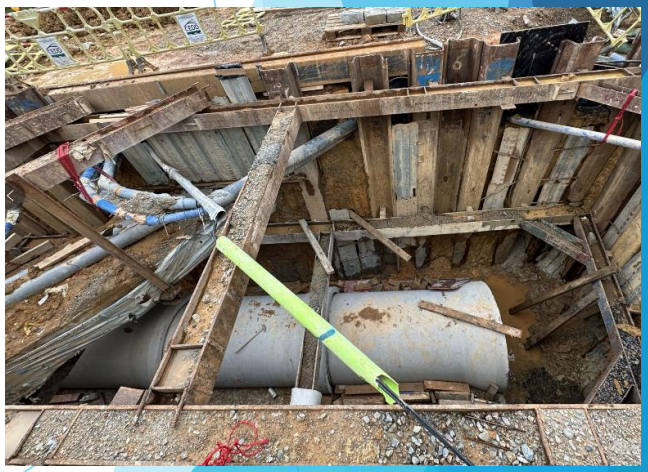


- Road construction work(CH235 –CH290) Compaction and SRT

Pipe laying work of 600 dia. sewer(TWS1.02)
(Connect to existing manhole)
(Temporary diversion)

Construction work of U-channel at FS06

Road construction work(Footpath and Cycle Track) near new Wo Hop Shek Village

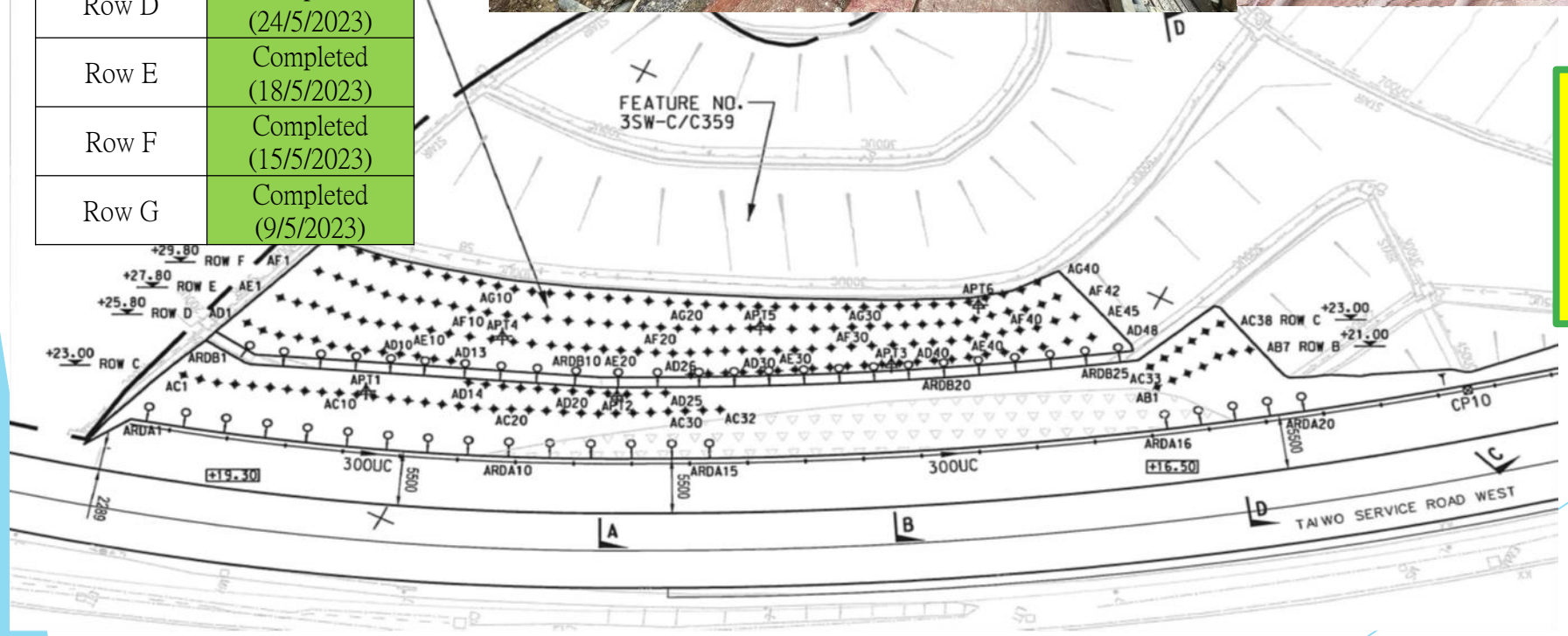


- Trench excavation for laying DN1200(drainage)
- (Between FL9104A and FL9104B

South Team

FS04 Concreting of Soil Nail Head

Row	Completed
Row B	Completed (5/6/2023)
Row C	Completed (27/5/2023)
Row D	Completed (24/5/2023)
Row E	Completed (18/5/2023)
Row F	Completed (15/5/2023)
Row G	Completed (9/5/2023)



1. FS 04 – Soil Nail

TSW 1138 (R15) ES: 01/11/22 EF:04/05/23
LS: 19/05/23 LF:16/06/23

- **Laying work of hessian bags for soil nail head in progress**
- **Drilling work of raking drain(ROW B) Target to be completed on 17/6/23**

South Team

1. HKY FB ABWF and BS Work
FBE-1355 (R15) ES:06/05/23 EF:24/07/23
LS:07/06/25 LF:22/08/25
- Staircase and Slab concreted on 24/4
- Downpipe Installation in progress

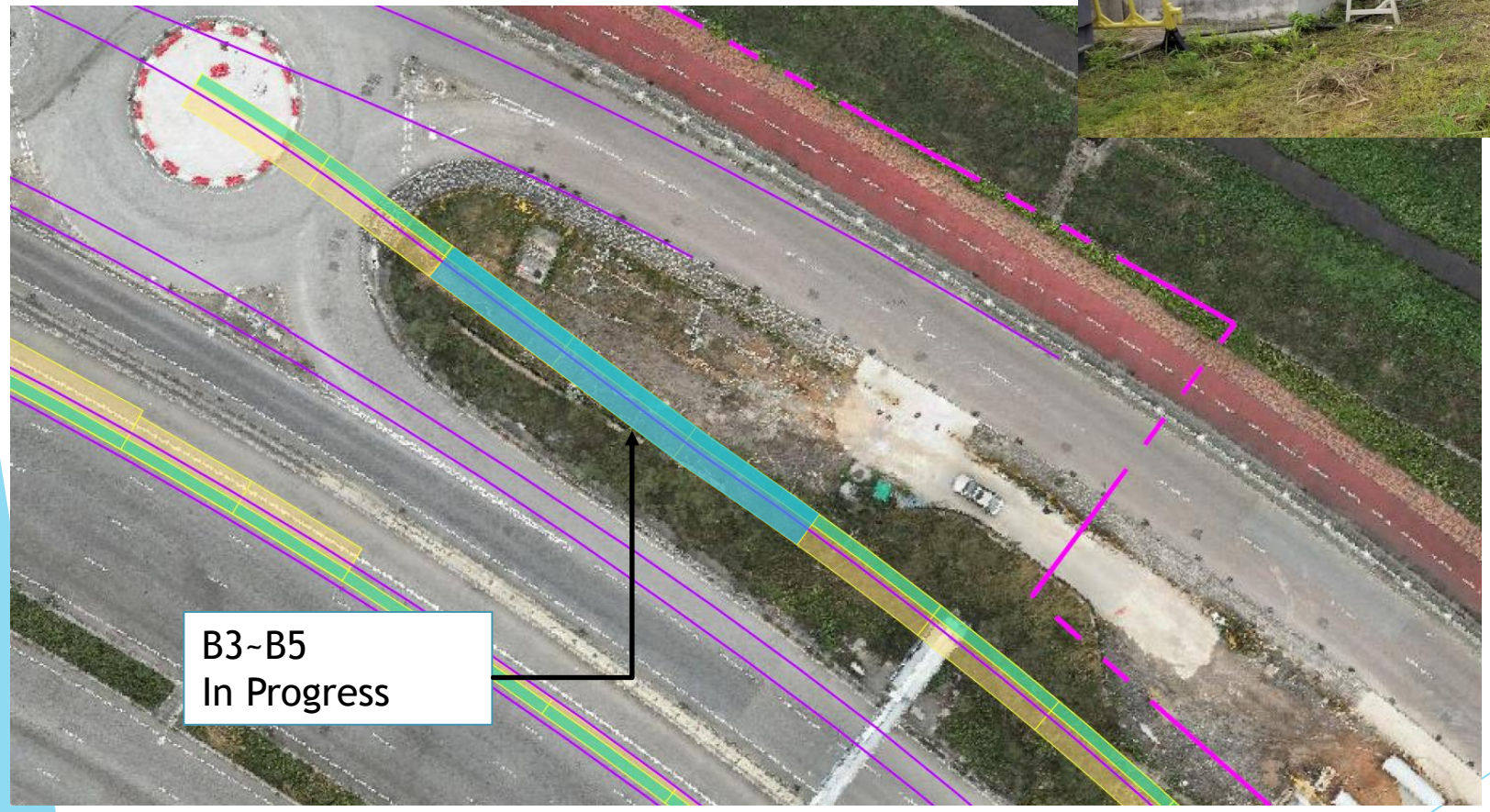
2. TWSRE – BBI Cover walkway Footing
BBI-1215 (R15) ES:14/11/22 EF:29/04/23
LS:23/05/23 LF:16/06/23
- Bay 2~15 and bay 17~20 completed
- 18/20 completed
- Bay 16 target cast on 14/6
- Bay 01 target cast on 24/6

3. BBI – Drainage, Sewerage and Utilities
BBI-1320 (R15) ES:27/05/23 EF:03/07/23
LS:10/06/23 LF:17/07/23
- Manhole ME3.10a in progress
- DN600 (to ME3.11a) completed
- DN450 (to MNH_FL8.38) completed
- DN600 (to ME3.9) 90% completed

South Team

9. Noise Barrier NB 110
TSE-1515 (R15) ES: 17/11/23 EF:21/12/23
LS: 05/01/24 LF:08/02/24

- **Site Clearance in Progress**
- **Noise Barrier Works shall commence on 15/06/23**



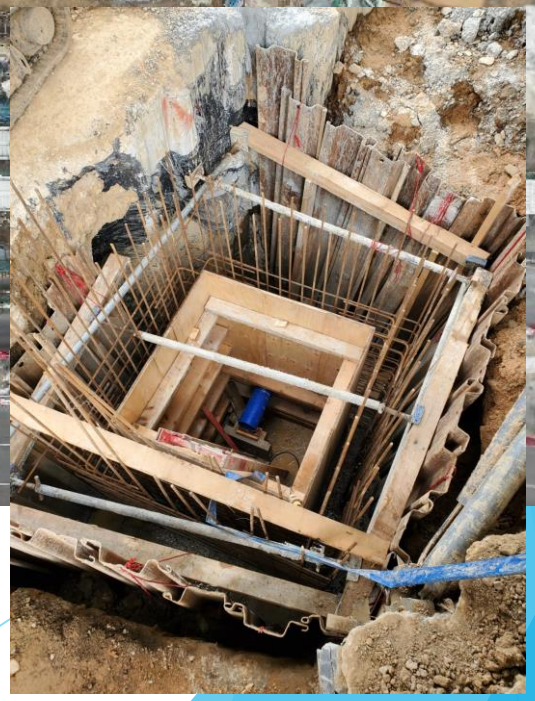
中国铁建 | Paul Y

South Team

4. TWSRE – Dn600 Watermain within BBI area
PMI 027- 200 (R15) ES:16/02/23 EF:12/04/23
LS:03/06/23 LF:09/06/23

- **Portion 11 – Foam Concrete DN600 02/06/23**
- **Portion 12 – Wash-out Pit in Progress**

Portion 12



Portion 11

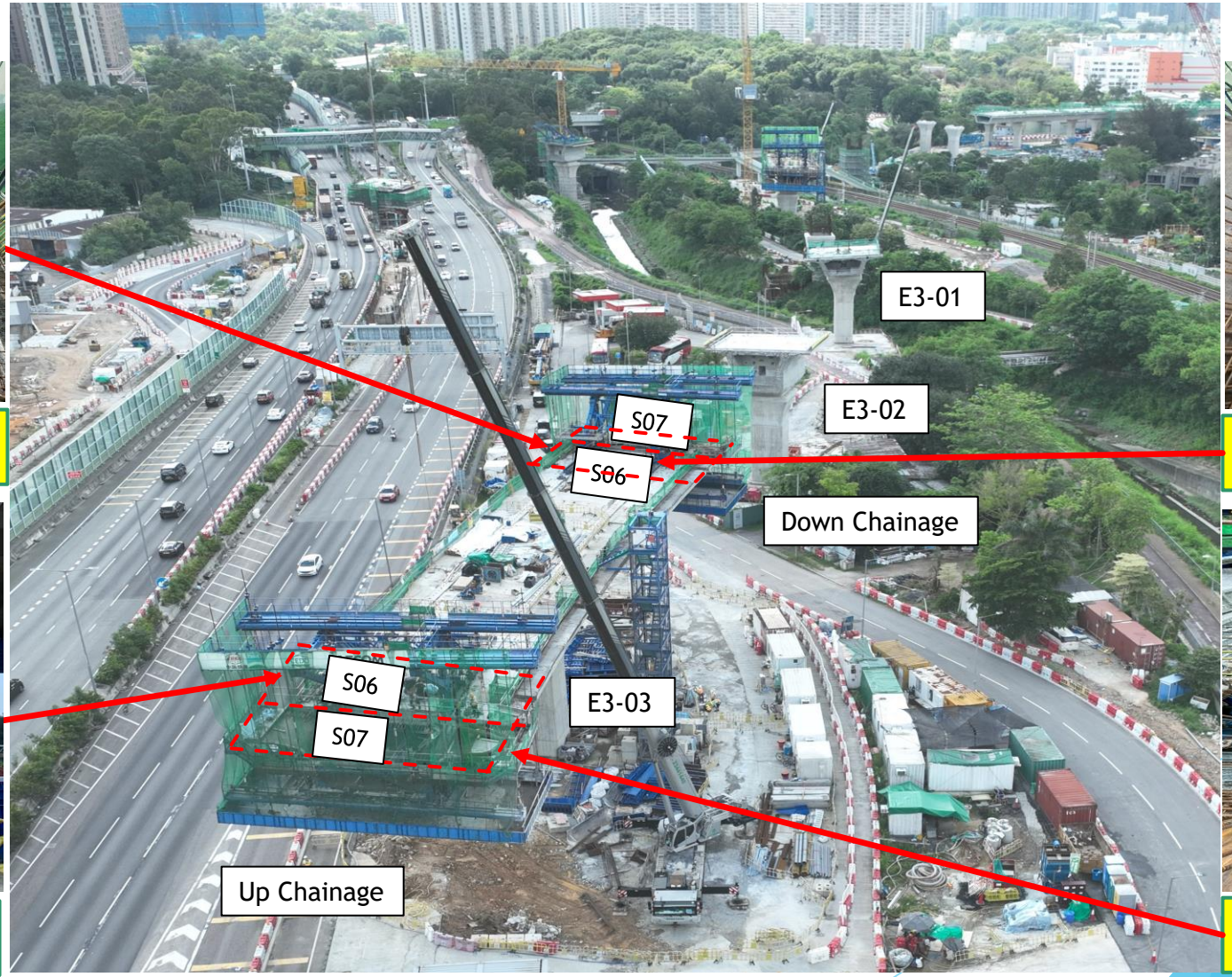
Form Traveller Team Area Highlighted

- FT1 (E3-03 T -Span)

FT1: E3-03

- **S06 completed on 31/05/23**
- **Target S07 segment concreting by 16/06/23**
- E3-03 T-Span (S01 to S07)
  ES: 02/01/23 EF: 03/07/23
  LS: 02/01/23 LF: 10/07/23
- **Ahead against R15**

S06 segment (Lower Chainage) completed on 30/05/23



Rebar fixing at S07 segment (Lower Chainage) in progress

S06 segment (up Chainage) completed on 31/05/23

Rebar fixing at S07 segment (up Chainage) in progress

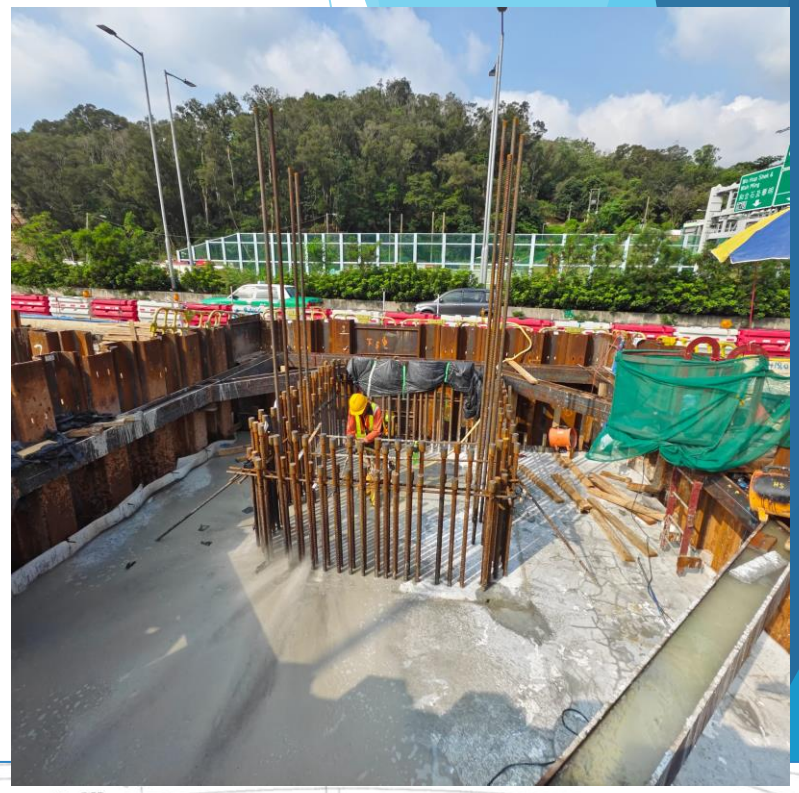
South Team

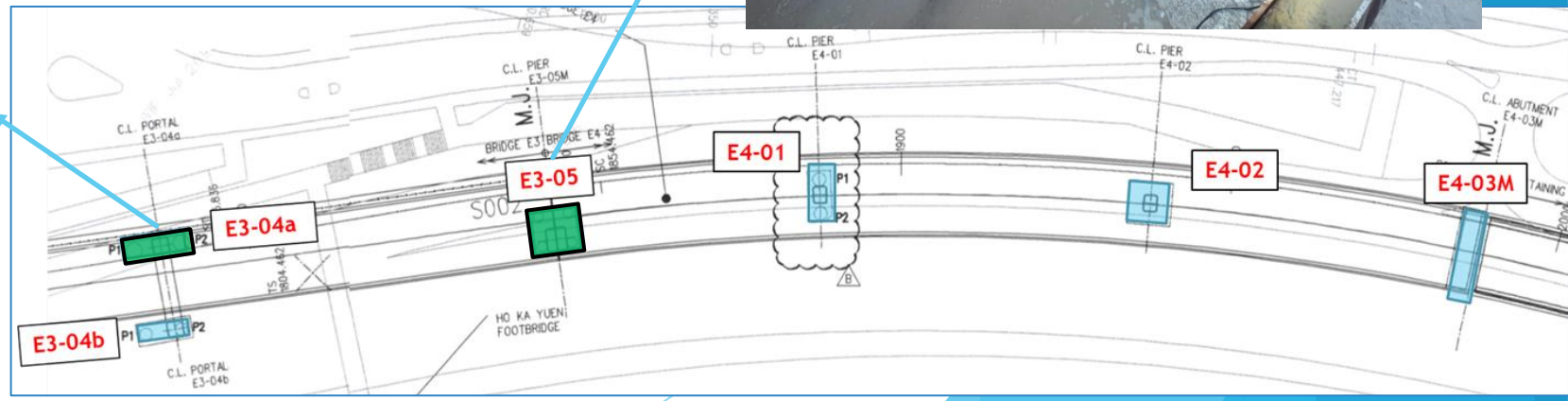
5. E3-04a Pile Cap
E3-7470 (R15) ES:29/08/23 EF:25/09/23
LS:10/11/23 LF:07/12/23

- Anticipated Completion Date 15/07/23
- 1st Shoring to be completed 15/06/23
- 2nd Shoring to be completed 24/06/23

6. E3-05M Pile Cap
E3-5605 (R15) ES:05/05/23 EF:25/05/23
LS:17/06/23 LF:10/07/23

- Pilecap casted on 01/06/23

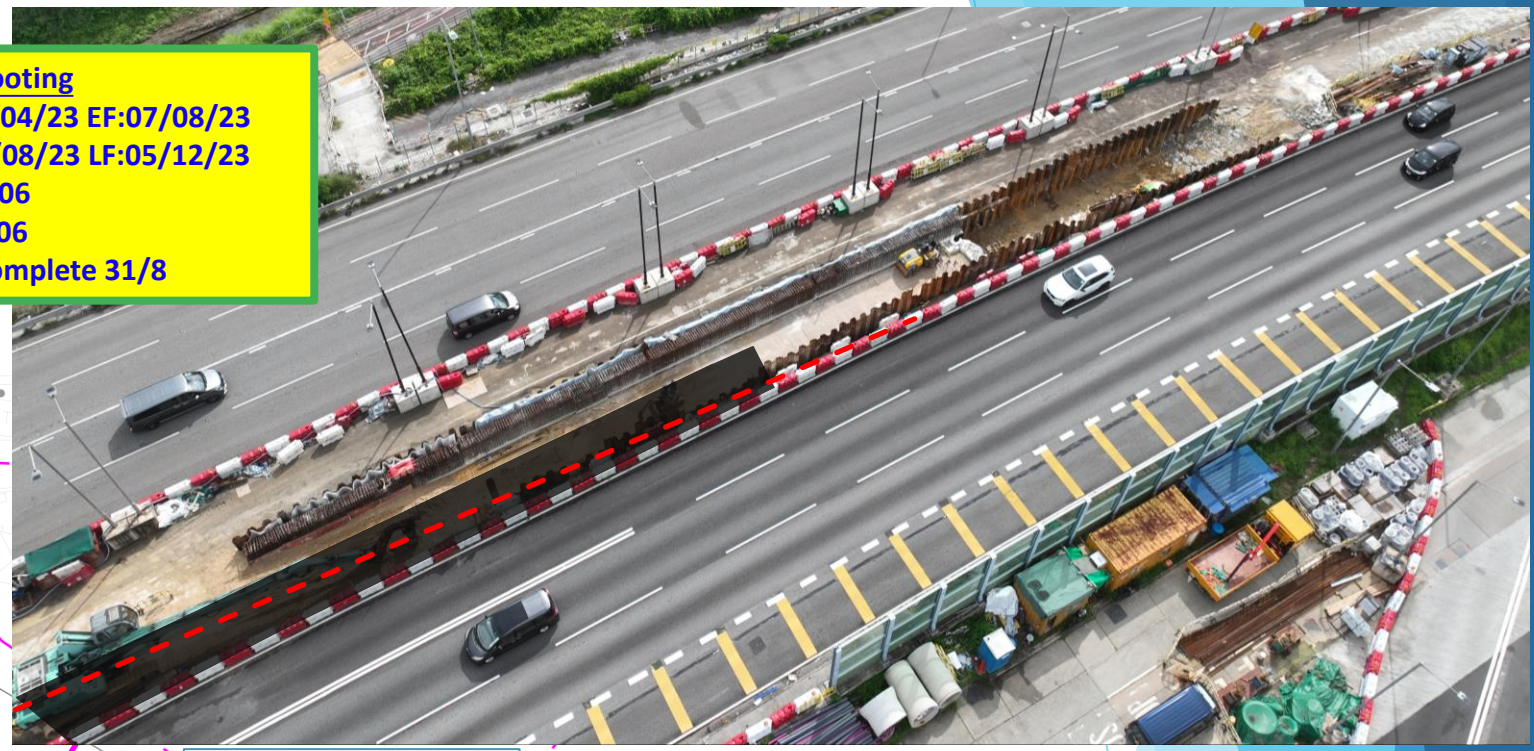


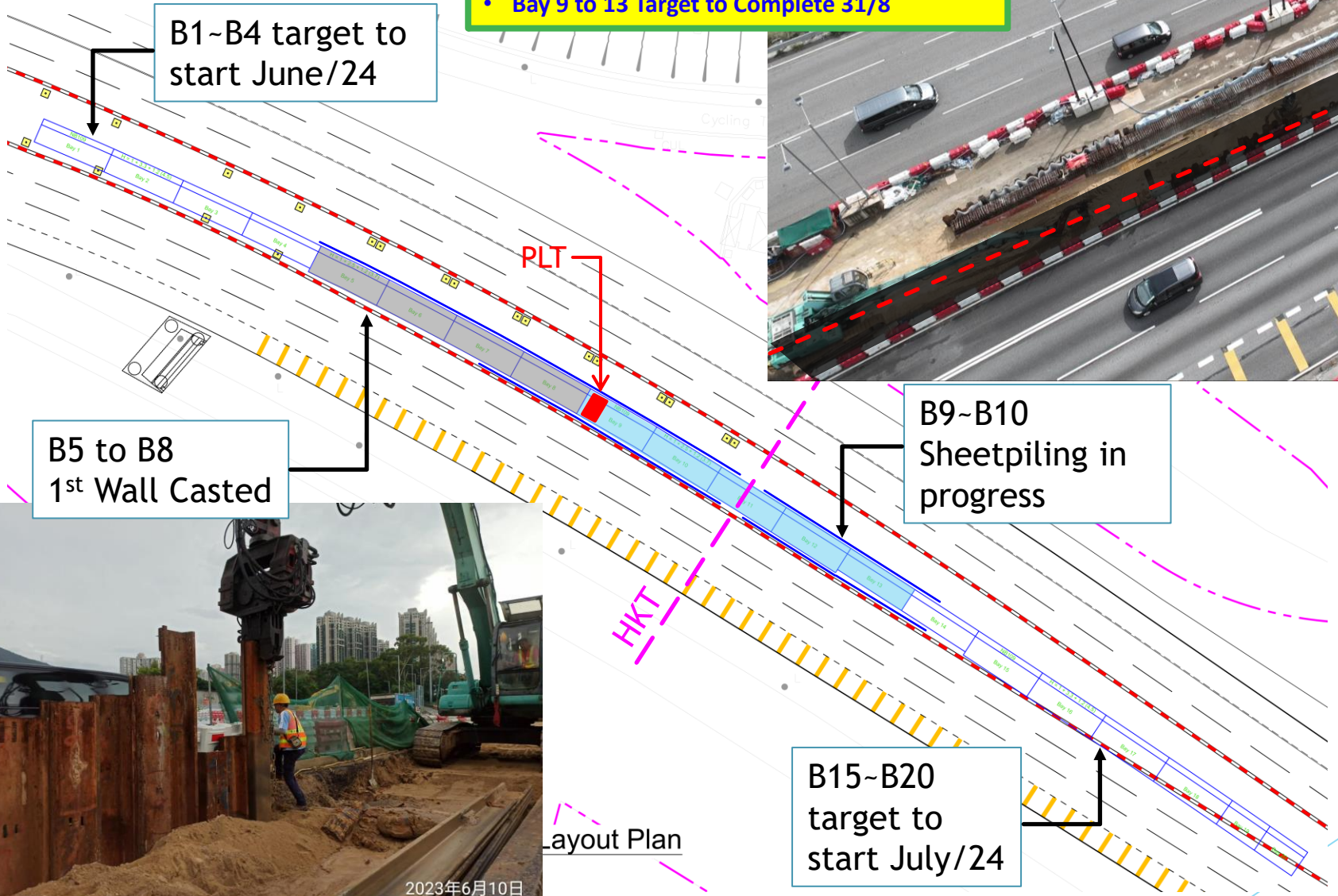


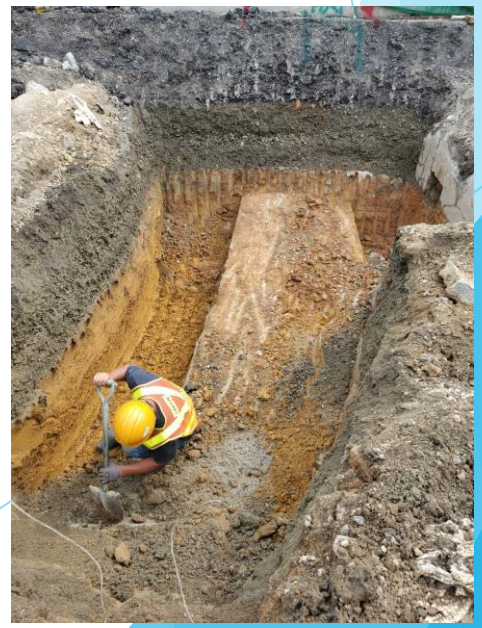
South Team

7. Noise Barrier NB 109-Footing
FHY 1515 (R15) ES: 20/04/23 EF:07/08/23
LS: 19/08/23 LF:05/12/23

- **Pavement Work 14-20/06**
- **Implement TTA286 21/06**
- **Bay 9 to 13 Target to Complete 31/8**



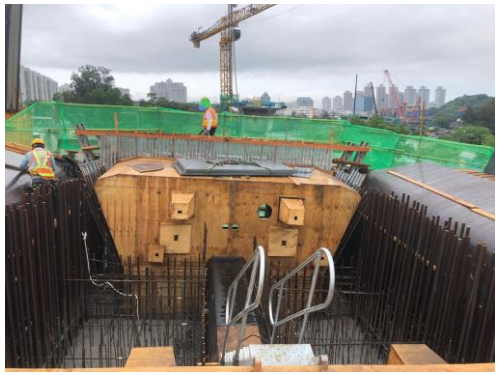




Viaduct

Segment On Pier (SOP)

- D2-03 SOP cast the 2nd pour concrete on 06/06/2023

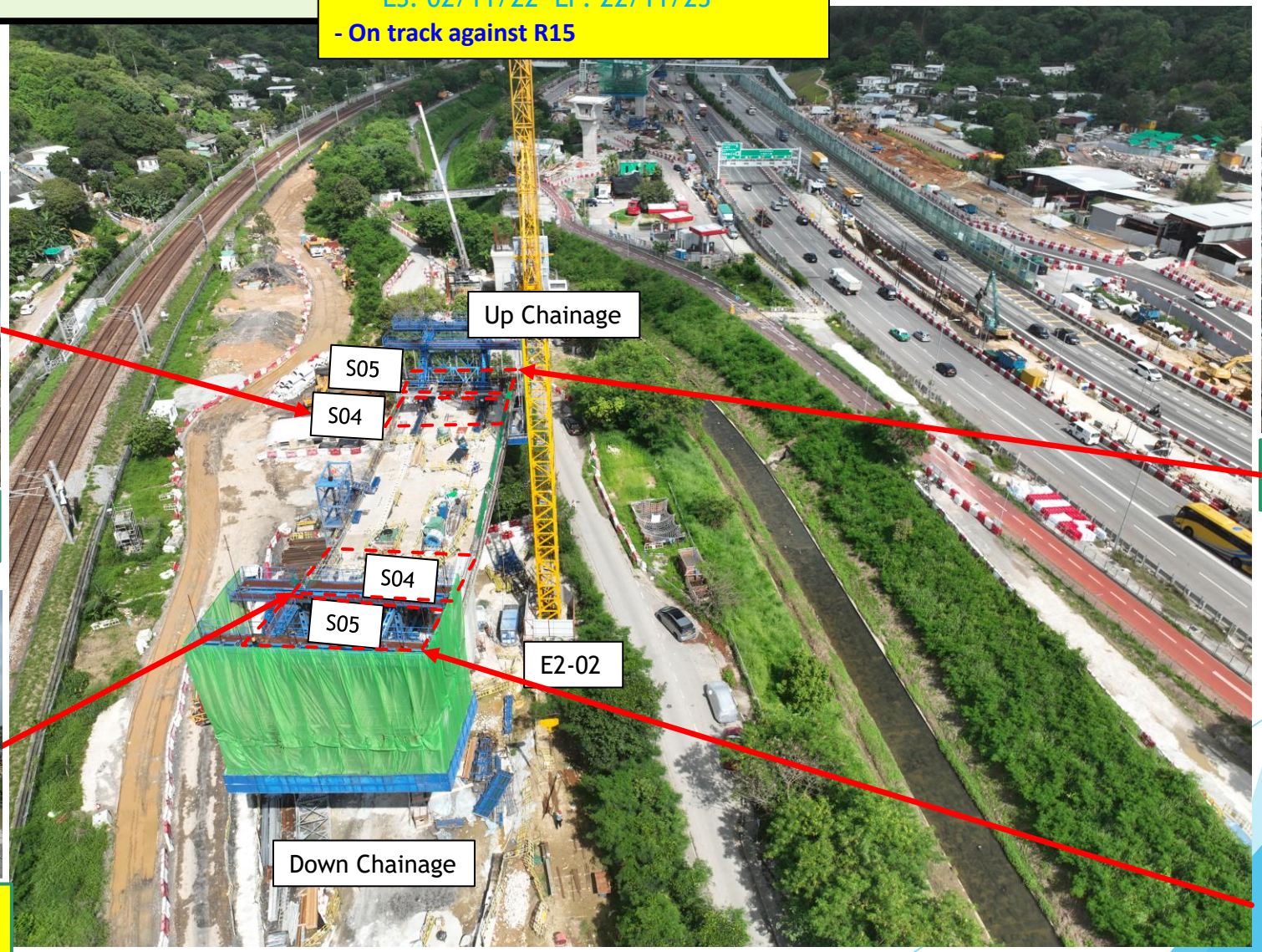


- Form Traveller Team Area Highlighted
  - FT2 (E2-02 T -Span)

FT2: E2-02
- S04 segment completed on 17/5/23
- S05 segment construction in progress
- **Target concreting at S03 by 13/06/23**
- E3-03 T-Span (S01 to S014)
  ES: 02/11/22 EF: 28/10/23
  LS: 02/11/22 LF: 22/11/23
- **On track against R15**

S04 segment (Up Chainage) completed on 17/05/23

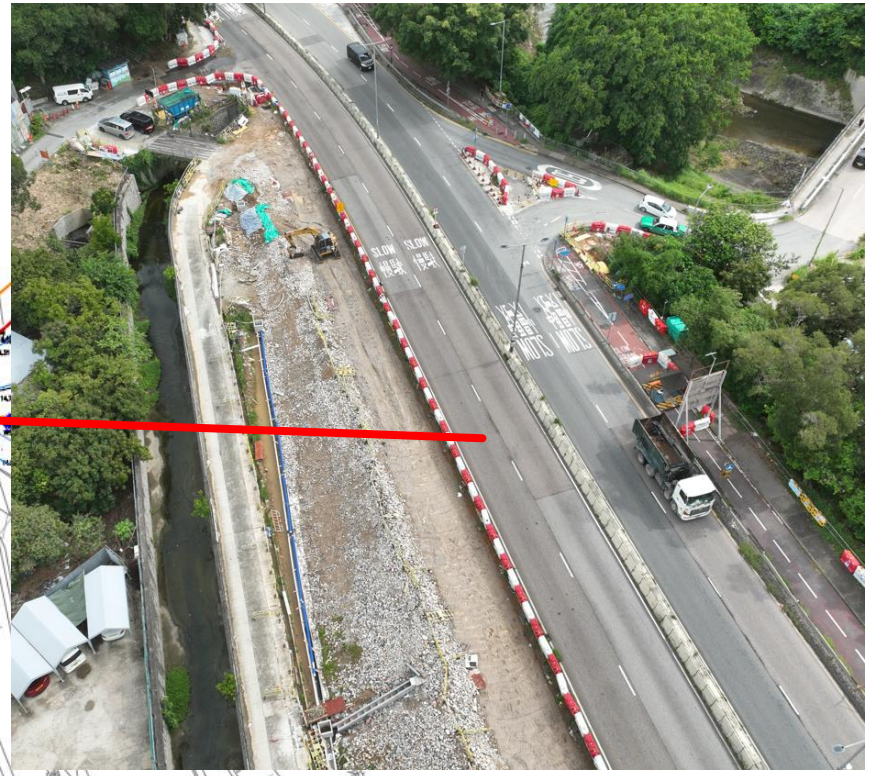
S04 segment (Down Chainage) completed on 17/05/23

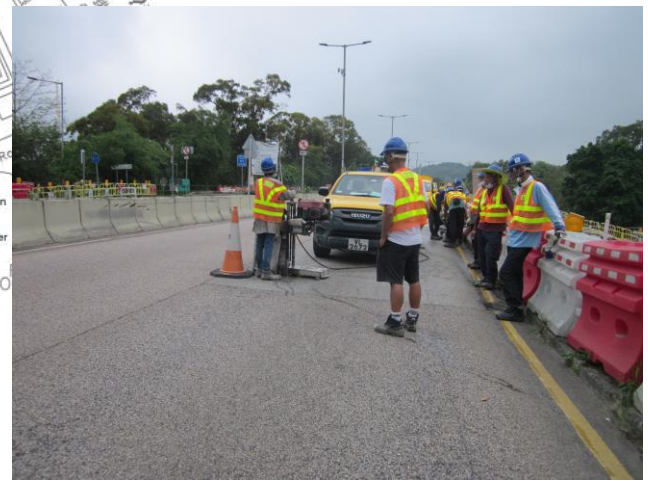


Rebar fixing at S05 segment (Up Chainage) in progress

Rebar fixing at S05 segment (Down Chainage) in progress

North Team



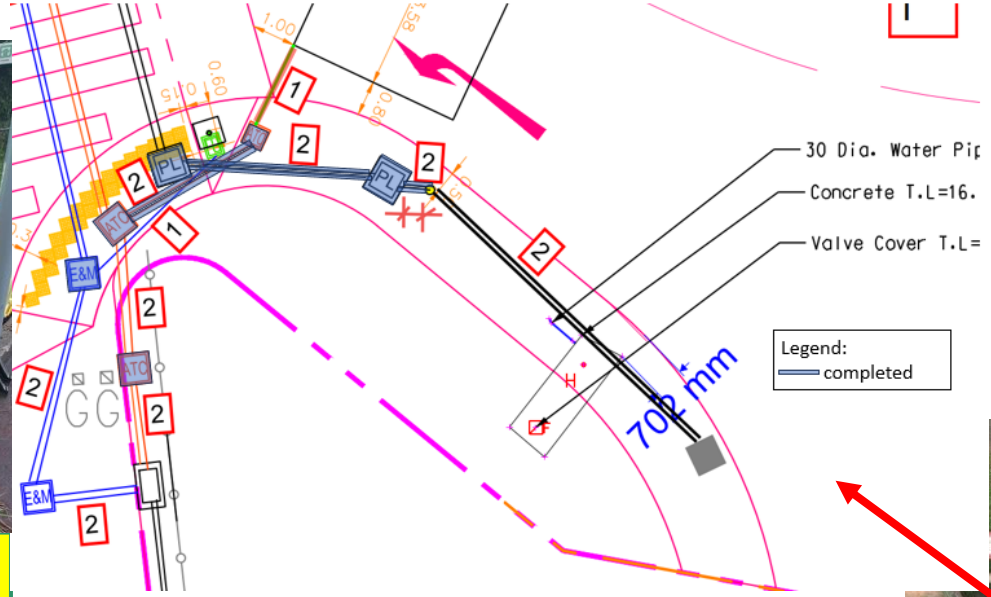


Jockey Club Road - CSD (Northbound)

Core sample of existing carriageway to verify the existing road condition for CSD of road re-construction to road re-surfacing.

12 North Team

Cable duct laying & draw pit for traffic light , detection loop & street light



Jockey Club Road (THV)

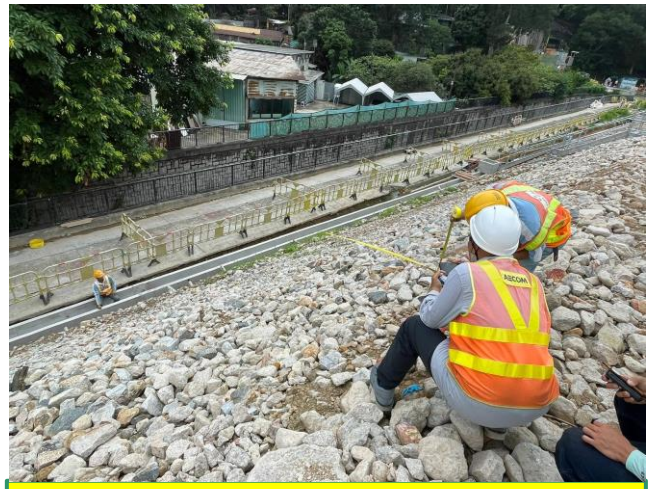
Cable duct laying & draw pit for traffic light , detection loop & street light in progress

- ES: 15/3/24 EF:23/4/24
- LS: 15/3/24 LF:23/4/24
- **On track against R15**

Cable duct laying & draw pit for traffic light , detection loop & street light

Breaking of existing footpath for cable duct laying for traffic light

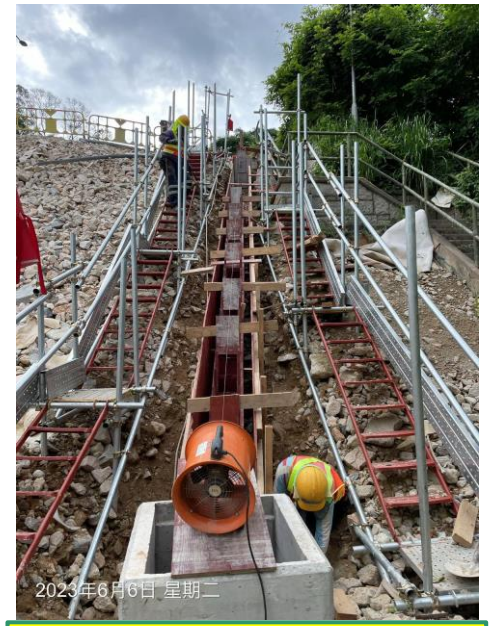
12 North Team



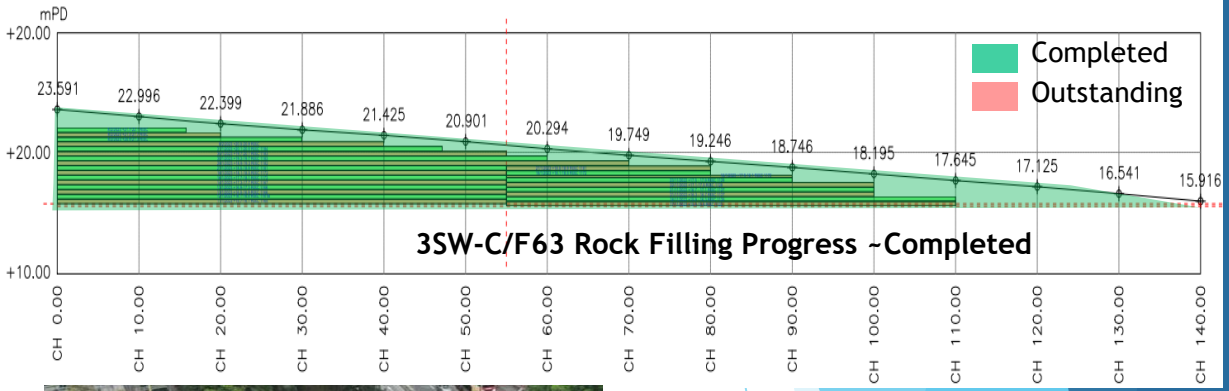
Rockfill slope works completed

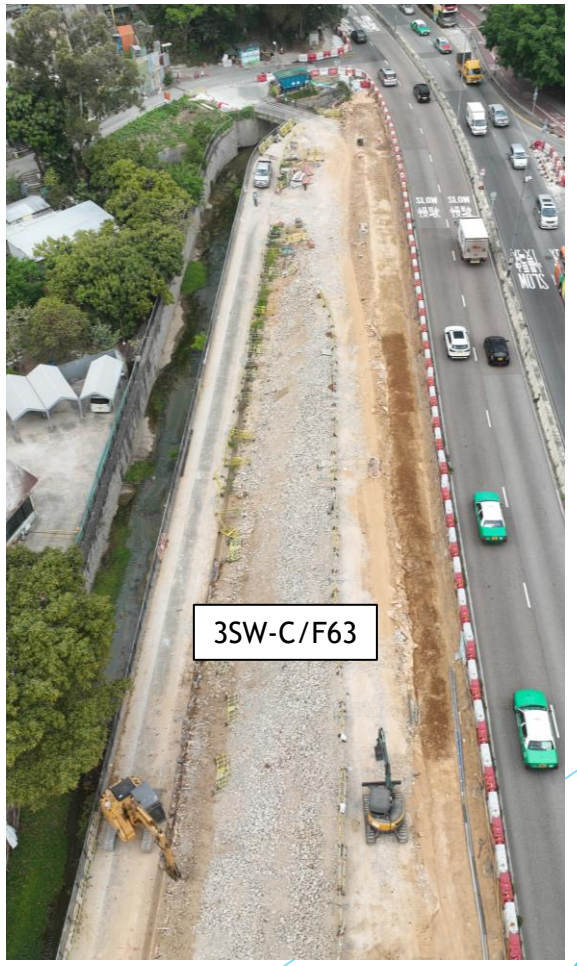
Road formation works in progress

Construction of stepped channel at CH30



Construction of stepped channel at CH0





Jockey Club Road

Jockey Club Road 3SW-C/F63

- Rockfill Slope construction completed on 24/5/23

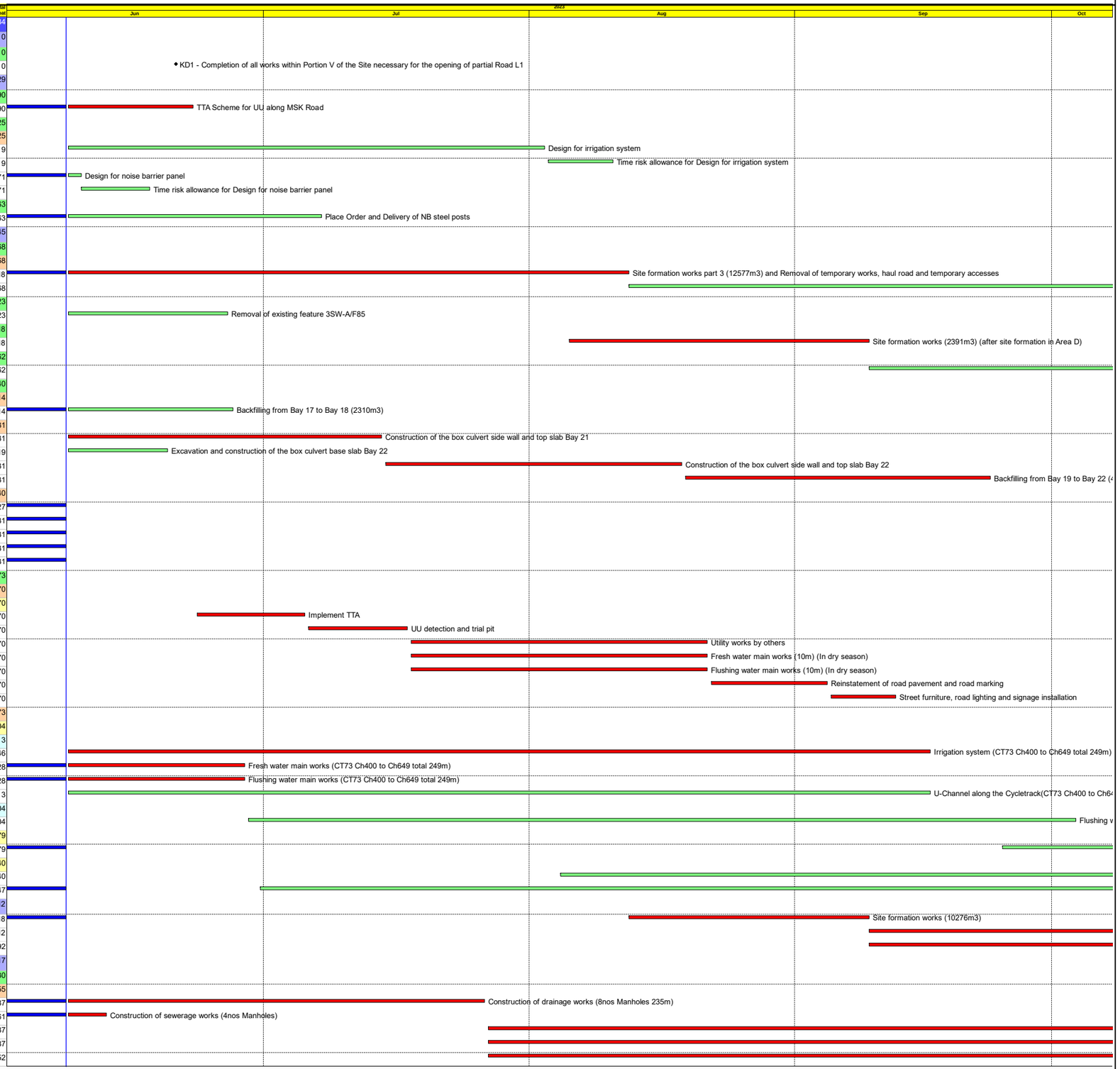
Rockfill Ch 60 - 140

- ES: 16/1/23 EF:26/4/23
- LS: 1/4/23 LF:26/4/23
- **Slippage against R15**
- Road formation works in progress
- Completed rock fill slope stepped channel at CH 30 and lower part at CH 0.

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		1416	31-Aug-20 A	13-Dec-24	-84
Key Dates and Sectional Completion of the Works		0	20-Jun-23	20-Jun-23	0
Contractual Key Dates		0	20-Jun-23	20-Jun-23	0
KDS1000	KD1 - Completion of all works within Portion V of the Site necessary for the opening of partial Road L1	0		20-Jun-23*	0
Preliminaries, Contractor's Design, Method Statement Submission and Approval		307	10-Aug-22 A	10-Aug-23	29
General Submission		150	01-Jan-23 A	22-Jun-23	-90
PGS1260	TTA Scheme for UU along MSK Road	150	01-Jan-23 A	22-Jun-23	-90
Contractor's Design Submission and Approval		158	23-Nov-22 A	10-Aug-23	25
Permanent Works Design		158	23-Nov-22 A	10-Aug-23	25
PWD1030	Design for irrigation system	48	08-Jun-23	02-Aug-23	9
PWD1035	Time risk allowance for Design for irrigation system	7	03-Aug-23	10-Aug-23	9
PWD1040	Design for noise barrier panel	90	23-Nov-22 A	09-Jun-23	71
PWD1045	Time risk allowance for Design for noise barrier panel	7	09-Jun-23	17-Jun-23	71
Tendering and Procurement for Major Subcontractor		299	10-Aug-22 A	07-Jul-23	63
TDS1170	Place Order and Delivery of NB steel posts	299	10-Aug-22 A	07-Jul-23	63
Section 1- Site Formation and Infrastructure Works in Area A		506	04-Jan-23 A	27-Apr-24	145
Site Formation (Portion II- Area A 21900m2)		133	16-May-23 A	25-Oct-23	268
Site Formation Works in South Part of Portion II		133	16-May-23 A	25-Oct-23	268
S1-SF1417	Site formation works part 3 (12577m3) and Removal of temporary works, haul road and temporary accesses	78	16-May-23 A	12-Aug-23	-118
S1-SF1420	Construction of open channel (180m)	60	12-Aug-23	25-Oct-23	268
Site Formation (Portion III- Area A 4900m2)		15	08-Jun-23	26-Jun-23	323
S1-SF1546	Removal of existing feature 3SW-A/F85	15	08-Jun-23	26-Jun-23	323
Site Formation (Portion IV- Area A 3800m2)		30	05-Aug-23	09-Sep-23	-118
S1-SF1870	Site formation works (2391m3) (after site formation in Area D)	30	05-Aug-23	09-Sep-23	-118
Slope Works		42	09-Sep-23	01-Nov-23	262
S1-SW1010	Forming new slope feature FS06 and construction of slope drainage	42	09-Sep-23	01-Nov-23	262
Box Culvert BC3 and Outfall 10		356	13-Jan-23 A	27-Apr-24	-40
Box Culvert BC3 (CH168 to CH216)		31	10-May-23 A	27-Jun-23	14
S1-BC0890	Backfilling from Bay 17 to Bay 18 (2310m3)	31	10-May-23 A	27-Jun-23	14
Box Culvert BC3 (CH216 to CH264)		91	08-Jun-23	23-Sep-23	-31
S1-BC1100	Construction of the box culvert side wall and top slab Bay 21	30	08-Jun-23	14-Jul-23	-31
S1-BC1105	Excavation and construction of the box culvert base slab Bay 22	10	08-Jun-23	19-Jun-23	19
S1-BC1110	Construction of the box culvert side wall and top slab Bay 22	30	15-Jul-23	18-Aug-23	-31
S1-BC1120	Backfilling from Bay 19 to Bay 22 (4620m3)	31	19-Aug-23	23-Sep-23	-31
Box Culvert BC3 (CH264 to CH282.799) and Outfall 10		181	13-Jan-23 A	27-Apr-24	-40
S1-BC1125	Construction of haul road and preparation works for Bay 23, Bay 24 and outfall 10	19	13-Jan-23 A	29-Dec-23	-27
S1-BC1160	Excavation for construction of outfall and box culvert BC3	20	14-Mar-23 A	02-Mar-24	-31
S1-BC1180	Laying of geotextile filter, grade 200 rockfill, polythene sheet	10	21-Mar-23 A	02-Apr-24	-31
S1-BC1190	Concreting for the blinding layer	10	22-Mar-23 A	09-Apr-24	-31
S1-BC1200	Construction of the base slab of Outfall 10 and box culvert Bay 23 & Bay 24	20	25-Mar-23 A	27-Apr-24	-31
Drainage, Sewerage, Waterworks and Road Works		309	04-Jan-23 A	09-Nov-23	73
Along Ma Sik Road		69	23-Jun-23	12-Sep-23	-70
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary		69	23-Jun-23	12-Sep-23	-70
S1-CS1240	Implement TTA	10	23-Jun-23	05-Jul-23	-70
S1-CS1260	UU detection and trial pit	10	06-Jul-23	17-Jul-23	-70
S1-CS1270	Utility works by others	30	18-Jul-23	21-Aug-23	-70
S1-CS1293	Fresh water main works (10m) (In dry season)	30	18-Jul-23	21-Aug-23	-70
S1-CS1295	Flushing water main works (10m) (In dry season)	30	18-Jul-23	21-Aug-23	-70
S1-CS1300	Reinstatement of road pavement and road marking	12	22-Aug-23	04-Sep-23	-70
S1-CS1305	Street furniture, road lighting and signage installation	7	05-Sep-23	12-Sep-23	-70
Along Proposed Cycletrack and Footpath		309	04-Jan-23 A	09-Nov-23	73
Works in Portion I		217	04-Jan-23 A	03-Oct-23	104
Works in Portion I CT73 (Ch400 to Ch649)		205	04-Jan-23 A	16-Sep-23	3
S1-CS1472	Irrigation system (CT73 Ch400 to Ch649 total 249m)	85	08-Jun-23	16-Sep-23	-246
S1-CS1473	Fresh water main works (CT73 Ch400 to Ch649 total 249m)	85	04-Jan-23 A	28-Jun-23	-128
S1-CS1474	Flushing water main works (CT73 Ch400 to Ch649 total 249m)	85	04-Jan-23 A	28-Jun-23	-128
S1-CS1475	U-Channel along the Cycletrack(CT73 Ch400 to Ch649 total 249m)	85	08-Jun-23	16-Sep-23	3
Works in Portion I CT74		80	29-Jun-23	03-Oct-23	104
S1-CS1495	Flushing water main works (CT74 Ch100 to Ch281 total 181m)	80	29-Jun-23	03-Oct-23	104
Works in Portion II CT71 (Ch100 to Ch369.376)		85	09-Jan-23 A	31-Oct-23	79
S1-CS1520	Drainage work (MNH_FL5.29 to MNH_FL5.26 229m) After box culvert back filling Bay1 to Bay22	85	09-Jan-23 A	31-Oct-23	79
Works in Portion III CT76 (Ch100 to Ch298.277)		195	10-May-23 A	09-Nov-23	40
S1-CS1575	Drainage work (SMH_FL2005 to SMH_FL2008 Remaining 154m) (CE027 Original:1nos Manhole)	80	04-Aug-23	09-Nov-23	40
S1-CS1810	CE149 - Sewerage DN600 - Setting up for trenchless works, construction of sewerage, dismantle TBM, constr	195	10-May-23 A	27-Oct-23	47
Section 4- Site Formation and Infrastructure Works in Area D		389	04-Feb-22 A	04-Dec-23	-112
S4-SF1120	Site formation works (10276m3)	80	04-Feb-22 A	09-Sep-23	-118
S4-SF1125	Construction of open channel (257m)	70	09-Sep-23	04-Dec-23	-112
S4-SF1130	Irrigation system (250m)	50	09-Sep-23	10-Nov-23	-92
Section 5- Site Formation and Infrastructure Works in Area E and Remainder of the Works		336	09-Mar-22 A	15-Nov-23	17
Road L1		323	09-Mar-22 A	31-Oct-23	30
Road L1 in Portion V (P600 CH100 to CH194)		260	11-Oct-22 A	31-Oct-23	-55
S5-RD1345	Construction of drainage works (8nos Manholes 235m)	80	30-Nov-22 A	26-Jul-23	-287
S5-RD1350	Construction of sewerage works (4nos Manholes)	46	11-Oct-22 A	12-Jun-23	-261
S5-RD1360	Construction of irrigation system (184m)	80	27-Jul-23	31-Oct-23	-287
S5-RD1370	Fresh water main works (184m)	80	27-Jul-23	31-Oct-23	-287
S5-RD1375	Flushing water main works (184m)	80	27-Jul-23	31-Oct-23	-252



Actual Work
Remaining Work
Critical Remaining Work
Milestone

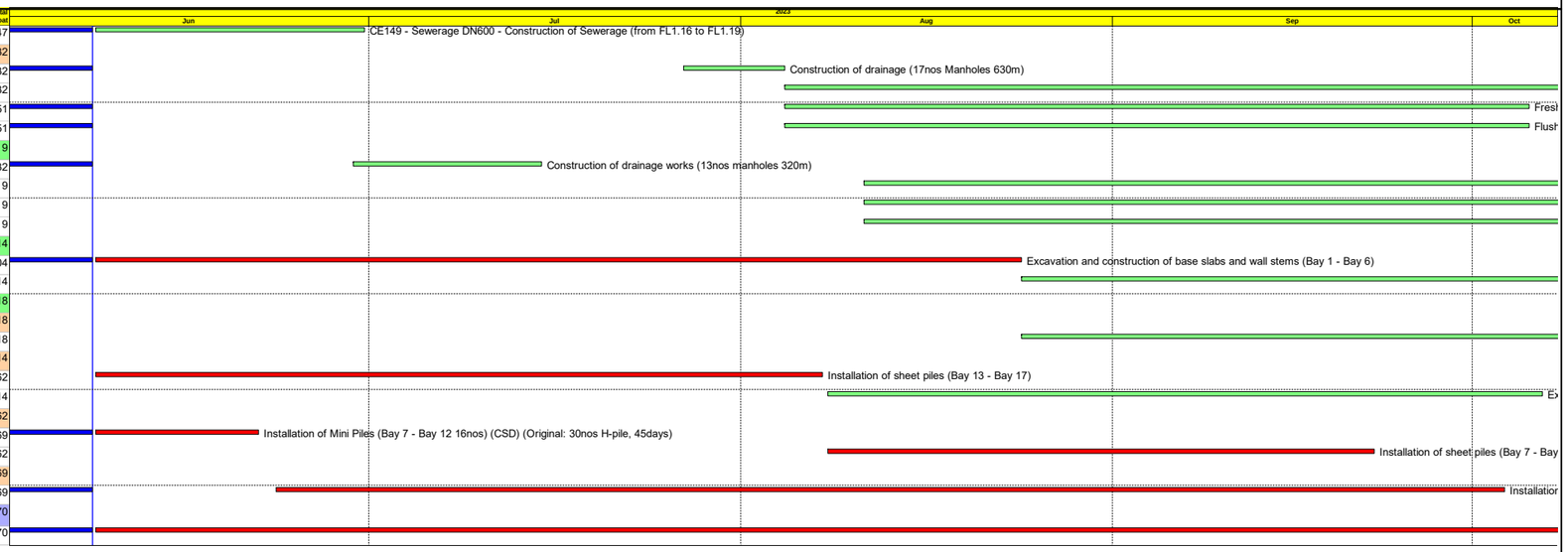
中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Jun-23)

Date	Revision	Checked	Approved
08-Jun-23	RDWPC	ST	CLX

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
S5-RD1590	CE149 - Sewerage DN600 - Construction of Sewerage (from FL1.16 to FL1.19)	32	23-Mar-23 A	30-Jun-23	47
Road L1 in Portion IV (P600 CH194 to CH393, P700 CH100 to CH175)		321	09-Mar-22 A	28-Oct-23	32
S5-RD1180	Construction of drainage (17nos Manholes 630m)	85	09-Mar-22 A	04-Aug-23	32
S5-RD1185	Construction of irrigation system (489m)	70	04-Aug-23	28-Oct-23	32
S5-RD1200	Fresh water main works (489m)	70	23-Feb-23 A	05-Oct-23	51
S5-RD1210	Flushing water main works (489m)	70	23-Feb-23 A	05-Oct-23	51
Road L2		159	13-Dec-22 A	15-Nov-23	9
S5-RD1500	Construction of drainage works (13nos manholes 320m)	80	13-Dec-22 A	15-Jul-23	32
S5-RD1505	Construction of irrigation system (298m)	70	11-Aug-23	03-Nov-23	9
S5-RD1520	Fresh water main works (298m)	80	11-Aug-23	15-Nov-23	9
S5-RD1530	Flushing water main works (298m)	80	11-Aug-23	15-Nov-23	9
Noise Barrier NB62		302	14-Nov-22 A	06-Nov-23	14
S5-NB1060	Excavation and construction of base slabs and wall stems (Bay 1 - Bay 6)	70	14-Nov-22 A	24-Aug-23	-104
S5-NB1080	Installation of noise barrier steel posts	60	24-Aug-23	06-Nov-23	14
Noise Barrier NB63		173	01-Feb-23 A	14-Oct-23	18
Noise Barrier NB63 (Bay 18 to Bay 21)		42	24-Aug-23	14-Oct-23	18
S1-NB1275	Excavation and construction of base slab (Bay 18 - Bay 21)	42	24-Aug-23	14-Oct-23	18
Noise Barrier NB63 (Bay 13 to Bay 17)		100	08-Jun-23	06-Oct-23	14
S1-NB1200	Installation of sheet piles (Bay 13 - Bay 17)	50	08-Jun-23	07-Aug-23	-62
S1-NB1210	Excavation and installation of lateral support (Bay13 - Bay17)	50	08-Aug-23	06-Oct-23	14
Noise Barrier NB63 (Bay 7 to Bay 12)		157	01-Feb-23 A	22-Sep-23	-62
S1-NB1190	Installation of Mini Piles (Bay 7 - Bay 12 16nos) (CSD) (Original: 30nos H-pile, 45days)	64	01-Feb-23 A	21-Jun-23	-69
S1-NB1205	Installation of sheet piles (Bay 7 - Bay 12)	40	08-Aug-23	22-Sep-23	-62
Noise Barrier NB63 (Bay 1 to Bay 6)		90	10-May-23 A	03-Oct-23	-69
S1-NB1050	Installation of Mini Piles Bay 1 to Bay 6 (32 nos) (CSD) (after trees transplanted) (Original:36nos H-pile, 72days)	90	10-May-23 A	03-Oct-23	-69
Section 6- Completion of Preservation And Protection Of Existing Trees		1146	31-Aug-20 A	13-Dec-24	-70
S6-CS1000	Preservation and protection of trees	1146	31-Aug-20 A	13-Dec-24	-70

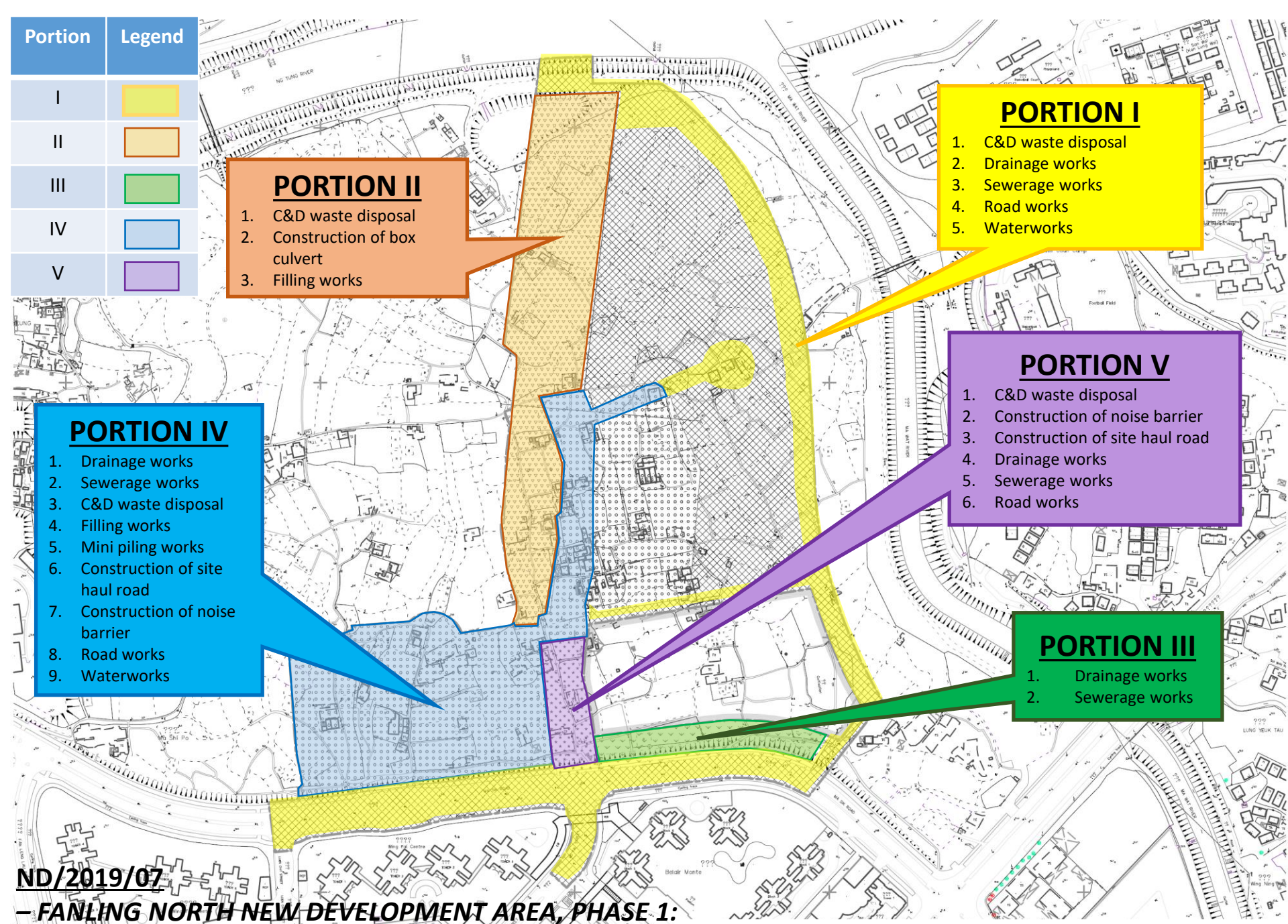


Actual Work
Remaining Work
Critical Remaining Work
Milestone

中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Jun-23)

Date	Revision	Checked	Approved
08-Jun-23	RDWPC	ST	CLX



ND/2019/07

– FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

Working Activities (June 2023 – September 2023)

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 – June

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	308	220
Mean abundance of *Ardeola bacchus*	15	11
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– June

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	13	9
Mean abundance of *Ardeola bacchus*	8	6
*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– June

Monitoring Station		Action Level (Species richness of native species)	Limit Level (Species richness of native species)
MS_01	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_02 & MS_03	Macroinvertebrates	2	1
	Fish	NA	NA
MS_04, MS_06 & MS_07	Macroinvertebrates	2	1
	Fish	2	1
MS_05	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_08, MS_09 & MS_10	Macroinvertebrates	2	1
	Fish	NA	NA
MS_11	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_12	Macroinvertebrates	NA	NA
	Fish	NA	NA

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– June

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of herpetofauna	T1	6	4
	T3	4	3
	T4	3	2
	T5	6	4
	T6	4	3
Monthly species richness of butterflies	T1	10	7
	T3	4	3
	T4	6	4
	T5	7	5
	T6	9	7
Month species richness of native species of odonates	T1	7	5
	T3	6	4
	T4	4	3
	T5	7	5
	T6	4	3

Table B-8.5 Action and Limit Levels of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats– June

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

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38174
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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)	1.119

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	5-May-23	5-May-23
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	37	41
2	45	53
3	67	76
4	83	90
5	93	103
Average	**64.9**	**72.7**

By Linear Regression of Y on X

Slope , mw = **1.0619** **Intercept, bw =** **3.7227**

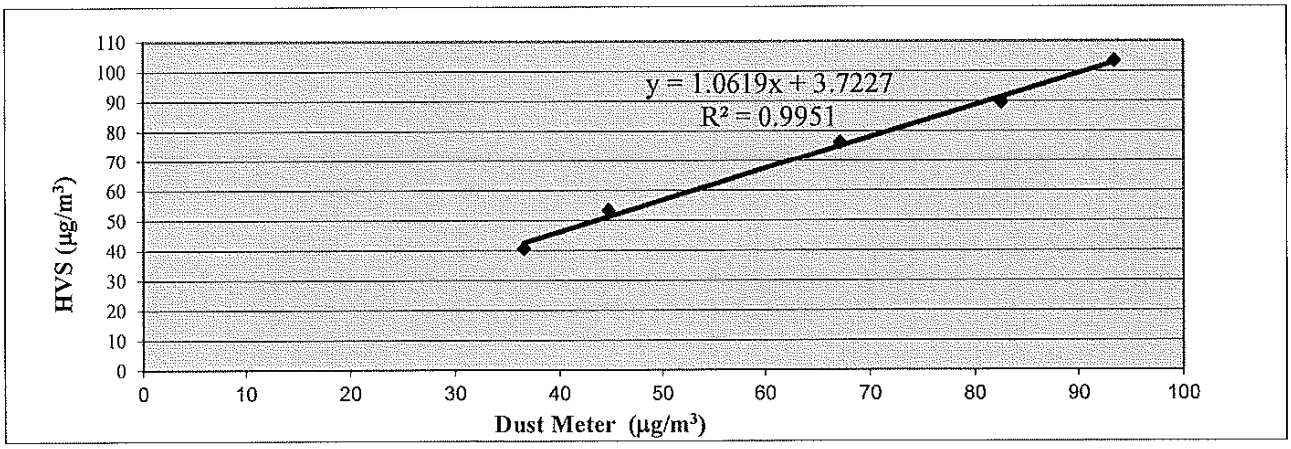
Correlation coefficient* = **0.9976**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	72.7
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	64.9
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.119**



QC Reviewer: LEE MAN HIN Signature: Date: 5/5/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38174A
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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)	1.178

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	5-May-23	5-May-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
	Dust Meter	**HVS**
Calibration Point	Mass Concentration ($\mu g/m^3$) **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	32	41
2	47	53
3	63	76
4	77	90
5	90	103
Average	**61.7**	**72.7**

By Linear Regression of Y on X

Slope , mw = **1.0956** **Intercept, bw =** **5.1073**

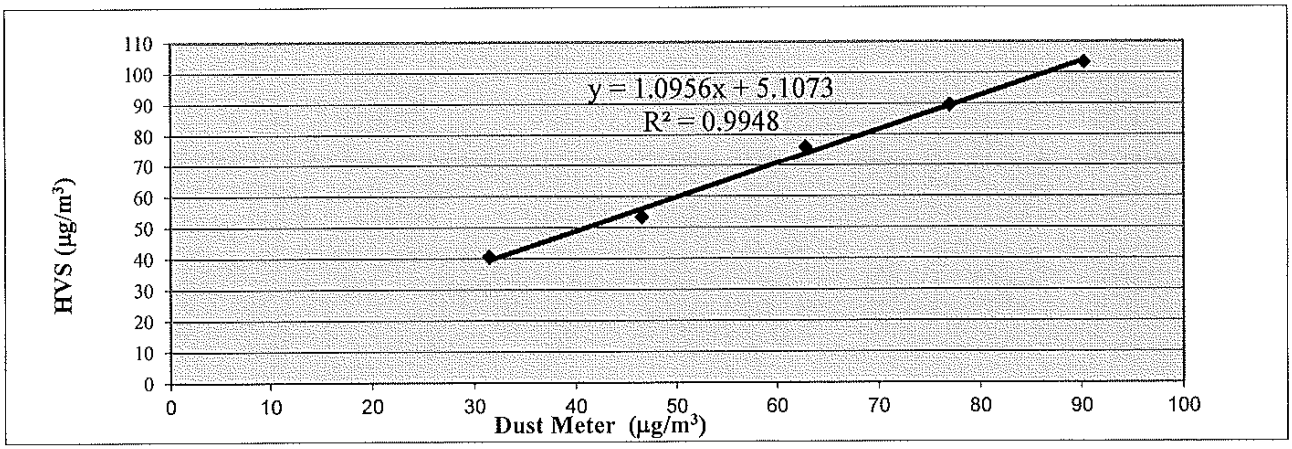
Correlation coefficient* = **0.9974**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	72.7
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	61.7
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.178**



QC Reviewer: Ms Mon Her Signature: _____ Date: 5/5/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38174B
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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)	1.147

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	5-May-23	5-May-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter** Mass Concentration ($\mu g/m^3$) **X-axis**	**HVS** Mass concentration ($\mu g/m^3$) **Y-axis**
1	33	41
2	47	53
3	69	76
4	79	90
5	89	103
Average	**63.3**	**72.7**

By Linear Regression of Y on X

Slope , mw = **1.1217** **Intercept, bw =** **1.6126**

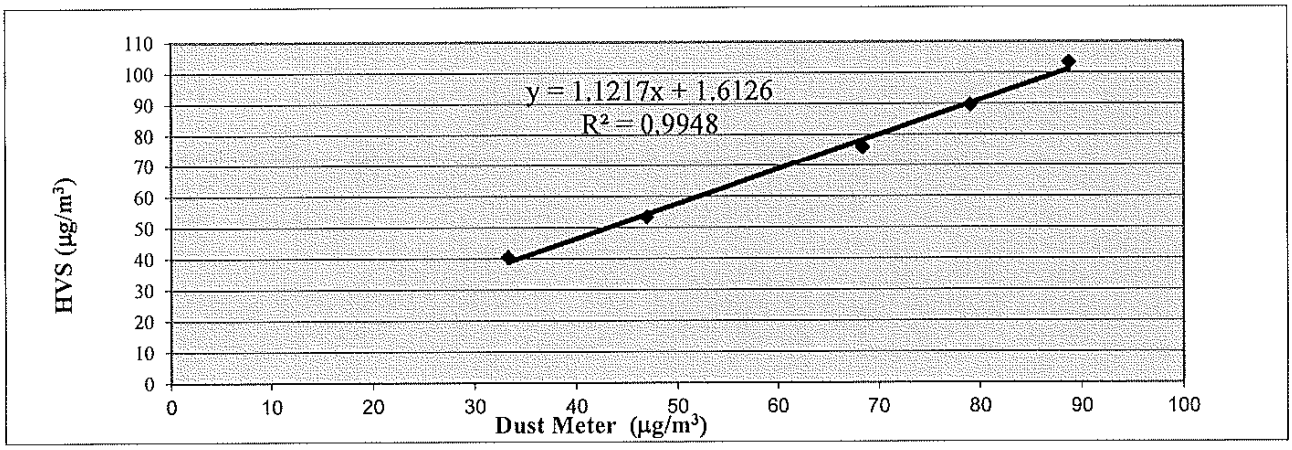
Correlation coefficient* = **0.9974**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	72.7
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	63.3
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.147**



QC Reviewer: Lee Mun Hor Signature: hei Date: 5/5/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38174C
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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)	1.108

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	5-May-23	5-May-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter Mass Concentration (µg/m^3) X-axis	HVS Mass concentration (µg/m^3) Y-axis
1	37	41
2	49	53
3	67	76
4	81	90
5	95	103
Average	**65.6**	**72.7**

By Linear Regression of Y on X

Slope , mw = 1.0995 **Intercept, bw =** 0.5550

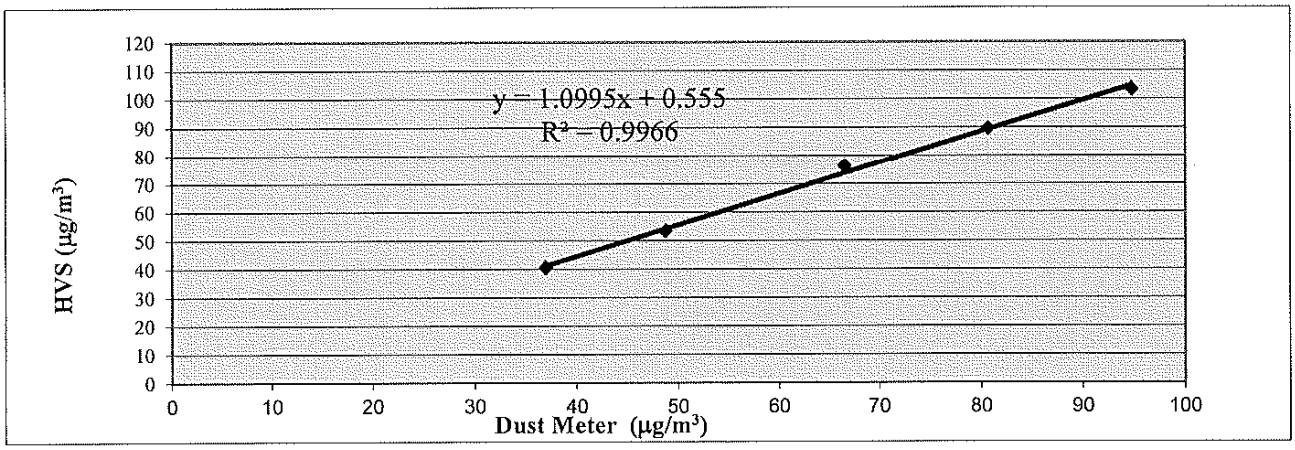
Correlation coefficient* = 0.9983

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	72.7
Particaulate Concentration by Dust Meter (µg/m^3)	65.6
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] 1.108



QC Reviewer: LLL MHN HBV Signature: _____ Date: 5/5/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38139
Date of Issue:	2023-04-24
Date Received:	2023-04-22
Date Tested:	2023-04-22
Date Completed:	2023-04-24
Next Due Date:	2023-06-23
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.	: X24476
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-05

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

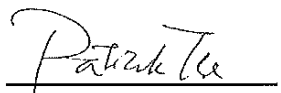
1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.107

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-05	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24476	2203
Calibration Date:	22-Apr-23	22-Apr-23
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	34	40
2	51	57
3	61	67
4	77	85
5	89	96
Average	**62.4**	**69.1**

By Linear Regression of Y on X

Slope , mw = **1.0449** **Intercept, bw =** **3.8972**

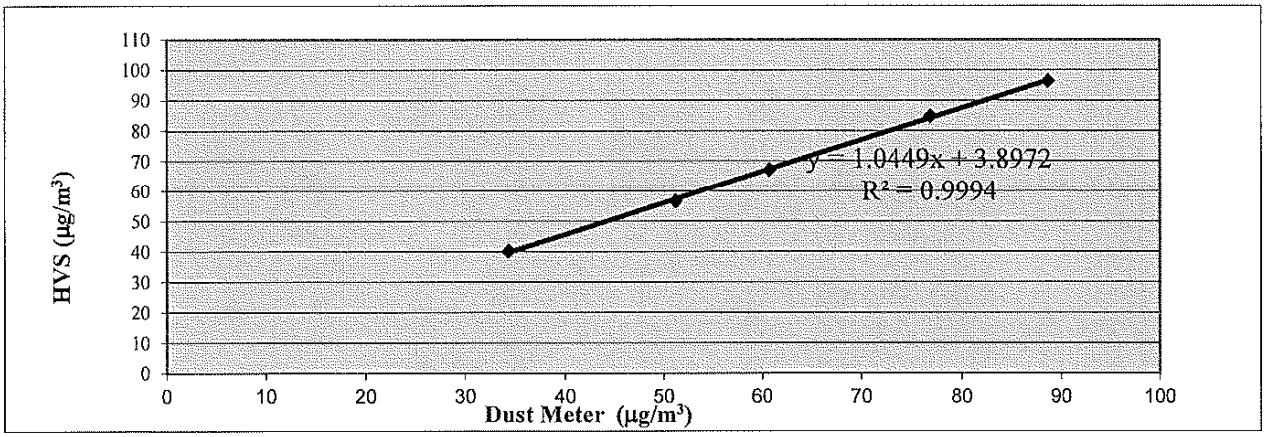
Correlation coefficient* = **0.9997**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	69.1
Particaulate Concentration by Dust Meter (µg/m^3)	62.4
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.107**



QC Reviewer: Lee Man Hee Signature: Date: 23/4/2023

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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.:	38139A
Date of Issue:	2023-04-24
Date Received:	2023-04-22
Date Tested:	2023-04-22
Date Completed:	2023-04-24
Next Due Date:	2023-06-23
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)	1.125

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	22-Apr-23	22-Apr-23
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	32	40
2	50	57
3	59	67
4	77	85
5	88	96
Average	**61.4**	**69.1**

By Linear Regression of Y on X

Slope , mw = 1.0057 **Intercept, bw =** 7.3475

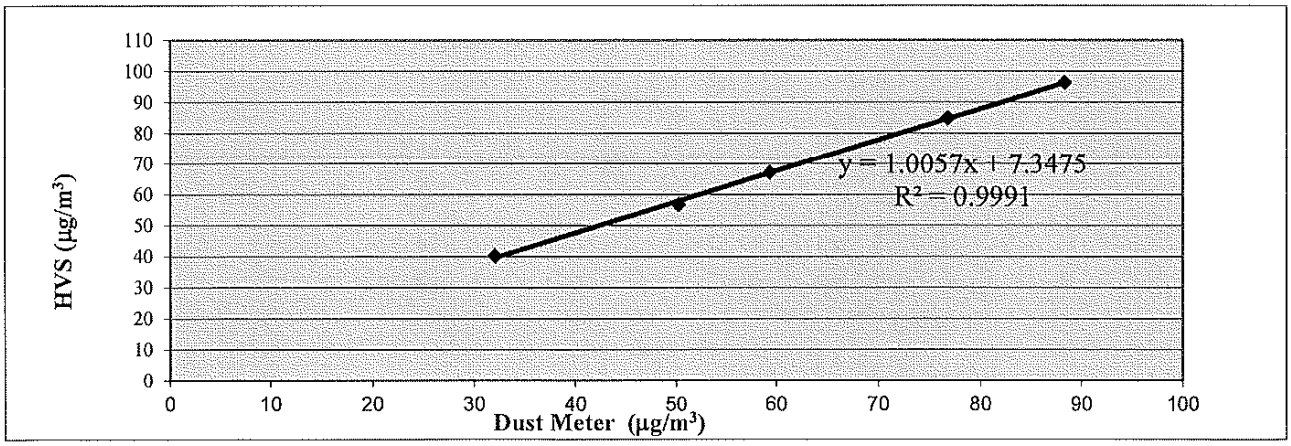
Correlation coefficient* = 0.9995

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	69.1
Particaulate Concentration by Dust Meter (µg/m^3)	61.4
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.125**



QC Reviewer: LEE MAN HAR Signature: hei Date: 25/4/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38174D
Date of Issue:	2023-05-08
Date Received:	2023-05-05
Date Tested:	2023-05-05
Date Completed:	2023-05-08
Next Due Date:	2023-07-07
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:

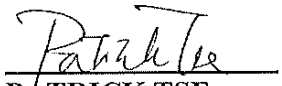
1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.144

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**



PATRICK TSE
General Manager

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:	5-May-23	5-May-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter** Mass Concentration ($\mu g/m^3$) **X-axis**	**HVS** Mass concentration ($\mu g/m^3$) **Y-axis**
1	33	41
2	47	53
3	68	76
4	79	90
5	91	103
Average	**63.5**	**72.7**

By Linear Regression of Y on X

Slope , mw = 1.0980 **Intercept, bw =** **2.9181**

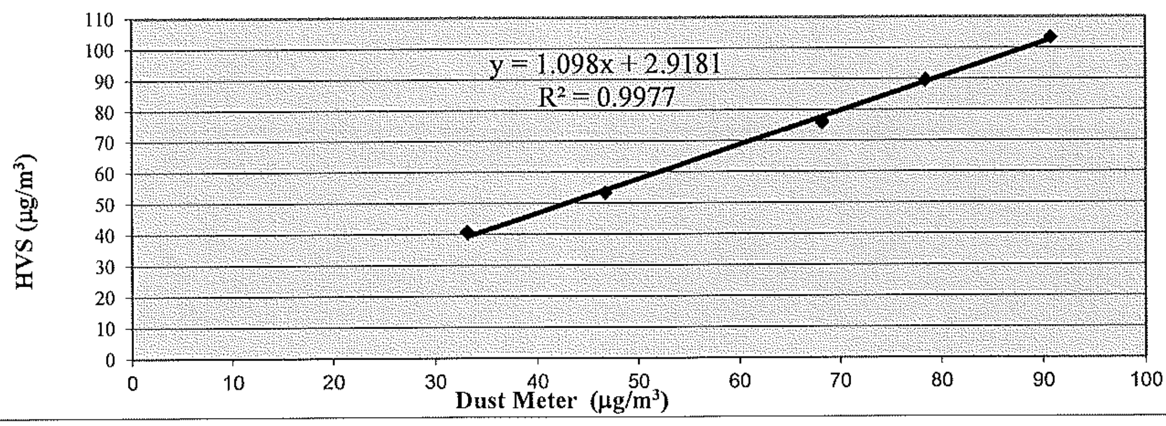
Correlation coefficient* = **0.9988**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	72.7
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	63.5
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [**K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)**] 1.144



QC Reviewer: Chi Man Hou Signature: [signature] Date: 5/5/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38139B
Date of Issue:	2023-04-24
Date Received:	2023-04-22
Date Tested:	2023-04-22
Date Completed:	2023-04-24
Next Due Date:	2023-06-23
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)	1.132

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	22-Apr-23	22-Apr-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
	Dust Meter	**HVS**
Calibration Point	Mass Concentration ($\mu g/m^3$) **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	31	40
2	49	57
3	61	67
4	75	85
5	90	96
Average	**61.1**	**69.1**

By Linear Regression of Y on X

Slope , mw = 0.9620 **Intercept, bw =** 10.3583

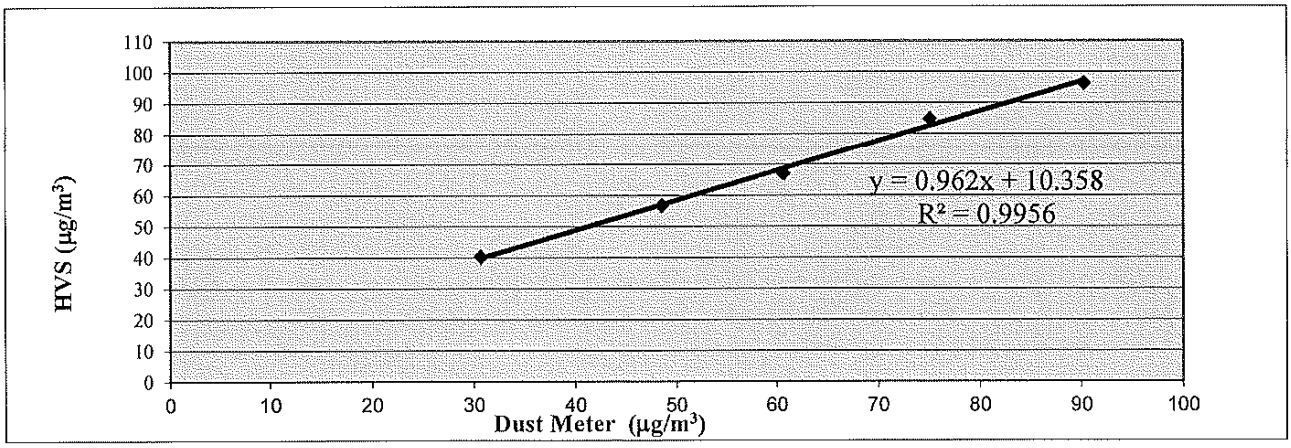
Correlation coefficient* = 0.9978

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	69.1
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	61.1
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu g/m^3$)] **1.132**



QC Reviewer: Lee Mon Kee Signature: hc- Date: 23/4/2023

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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.:	38139C
Date of Issue:	2023-04-24
Date Received:	2023-04-22
Date Tested:	2023-04-22
Date Completed:	2023-04-24
Next Due Date:	2023-06-23
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.	: X23811
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-09

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)	1.067

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-09	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23811	2203
Calibration Date:	22-Apr-23	22-Apr-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
	Dust Meter	**HVS**
Calibration Point	Mass Concentration (µg/m^3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	35	40
2	51	57
3	65	67
4	81	85
5	91	96
Average	**64.8**	**69.1**

By Linear Regression of Y on X

Slope , mw = 0.9769 **Intercept, bw =** 5.8558

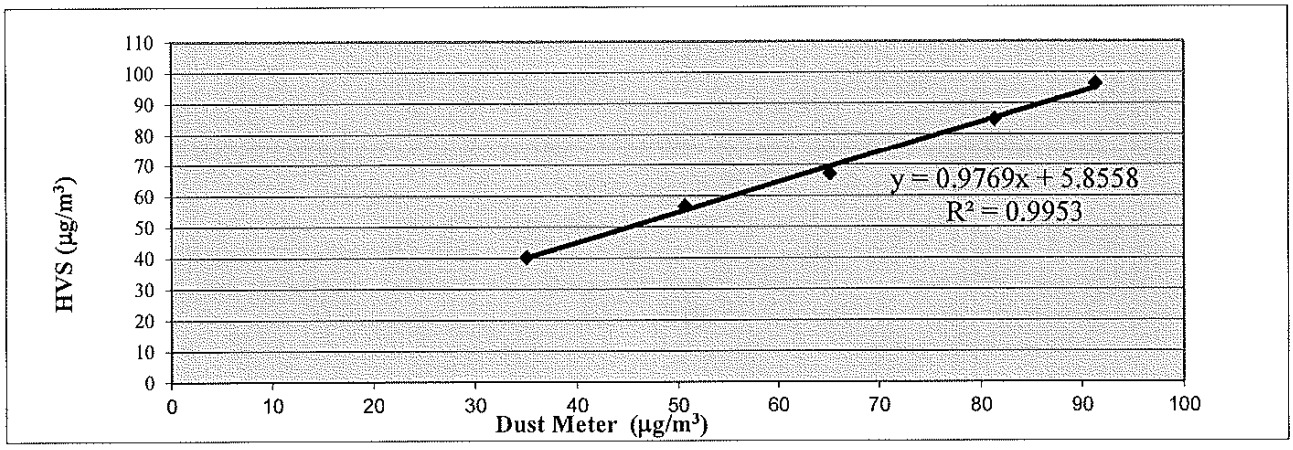
Correlation coefficient* = 0.9976

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	69.1
Particaulate Concentration by Dust Meter (µg/m^3)	64.8
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.067**



QC Reviewer: LLL MAN HEL Signature: hei Date: 23/4/2023

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38139D
Date of Issue:	2023-04-24
Date Received:	2023-04-22
Date Tested:	2023-04-22
Date Completed:	2023-04-24
Next Due Date:	2023-06-23
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)	1.121

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	22-Apr-23	22-Apr-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter** Mass Concentration (μg/m³) **X-axis**	**HVS** Mass concentration (μg/m³) **Y-axis**
1	35	40
2	50	57
3	61	67
4	75	85
5	87	96
Average	**61.7**	**69.1**

By Linear Regression of Y on X

Slope , mw = 1.0875 **Intercept, bw = 2.0667**

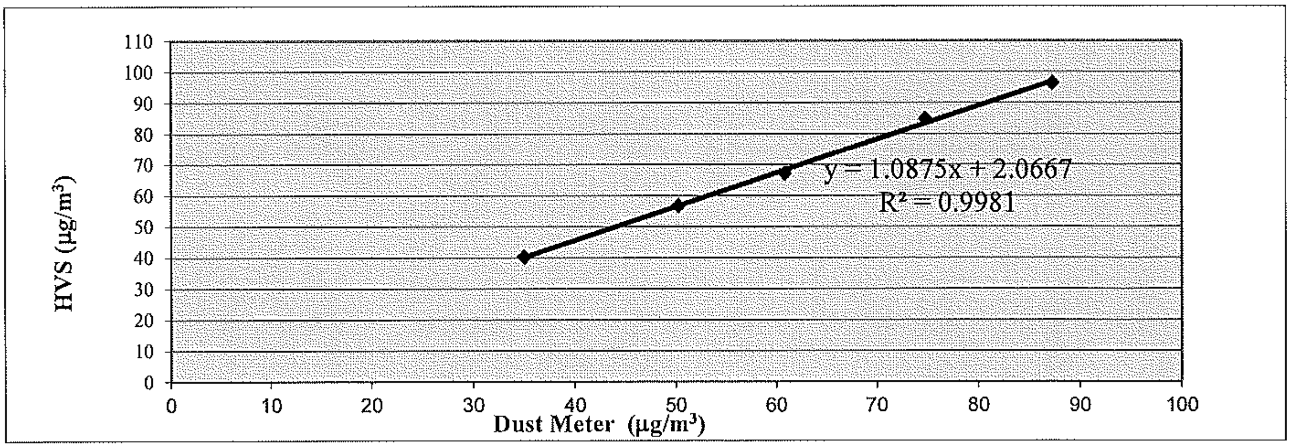
Correlation coefficient* = 0.9990

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	69.1
Particaulate Concentration by Dust Meter (μg/m³)	61.7
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [**K=High Volume Sampler / Dust Meter, (μg/m³)**] **1.121**



QC Reviewer: Lee Mon Hee Signature: lei Date: 23/4/2023

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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.:	38469D
Date of Issue:	2023-06-26
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-26
Next Due Date:	2023-08-25
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)	1.214

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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:	23-Jun-23	23-Jun-23
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	15	20
2	27	37
3	50	62
4	63	74
5	87	99
Average	**48.3**	**58.6**

By Linear Regression of Y on X

Slope , mw = **1.0699** **Intercept, bw =** **6.9634**

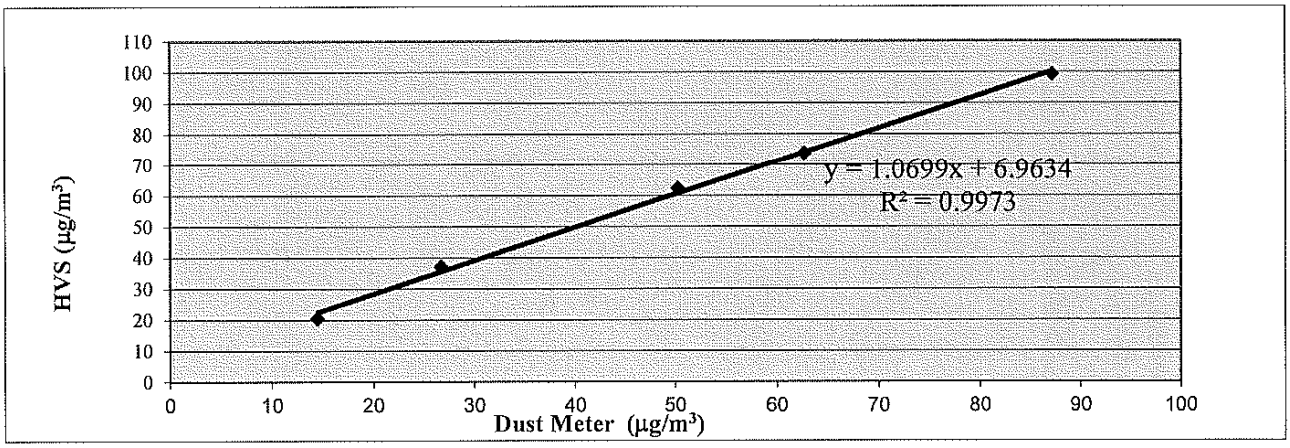
Correlation coefficient* = **0.9986**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	58.6
Particaulate Concentration by Dust Meter (µg/m^3)	48.3
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m^3)] **1.214**



QC Reviewer: Lab Man Hz Signature: hc Date: 24/6/23

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./230422

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 22-Apr-23

Operator: HL

Ambient Condition			
Temperature, Ta (K)	293.4	Pressure, Pa (mmHg)	758.6

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	11.8	3.46	60.96	7.8	2.81
2	9.6	3.12	55.06	6.2	2.51
3	8.7	2.97	52.45	5.8	2.42
4	5.4	2.34	41.48	3.7	1.94
5	3.4	1.86	33.07	2.4	1.56

By Linear Regression of Y on X

Slope , mw = 0.0444 **Intercept, bw =** 0.0925

Correlation coefficient* = 0.9995

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.94**

Remarks:

Conducted by: Date: 22/4/2023

Checked by: Date: 24/4/23

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./230505

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 5-May-23

Operator: HL

Ambient Condition			
Temperature, Ta (K)	294.3	Pressure, Pa (mmHg)	761.2

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	11.9	3.47	61.23	7.5	2.76
2	9.4	3.09	54.50	6.0	2.47
3	8.6	2.95	52.16	5.7	2.40
4	5.7	2.40	42.60	3.6	1.91
5	3.6	1.91	34.01	2.5	1.59

By Linear Regression of Y on X

Slope , mw = 0.0437 **Intercept, bw :** 0.0881

Correlation coefficient* = 0.9981

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.82**

Remarks:

Conducted by: Hk MW HLY Signature: Date: 5/5/2023

Checked by: Ho Ka chun Signature: Date: 5/5/23

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./230623

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 23-Jun-23

Operator: HL

Ambient Condition			
Temperature, Ta (K)	293.3	Pressure, Pa (mmHg)	757

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	12.0	3.48	61.42	7.8	2.81
2	9.4	3.08	54.44	6.2	2.50
3	8.8	2.98	52.70	5.7	2.40
4	5.6	2.38	42.19	3.9	1.99
5	3.7	1.94	34.44	2.7	1.65

By Linear Regression of Y on X

Slope , mw = 0.0425 **Intercept, bw =** 0.1868

Correlation coefficient* = 0.9995

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.01**

Remarks:

Conducted by: CE MOW 462 Signature: Date: 23/6/2023

Checked by: Ho Ka Chu Signature: Date: 23/6/2023

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	File No.	WMA20002/20/0018
Date:	19-Apr-23	Next Due Date:	18-Jun-23
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-20	Serial No.	3223

Ambient Condition			
Temperature, Ta (K)	298.5	Pressure, Pa (mmHg)	755.9

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	14.6	3.81	67.03	9.1	3.01
2	12.2	3.48	61.34	8.4	2.89
3	9.2	3.02	53.37	6.5	2.54
4	5.6	2.36	41.80	4.4	2.09
5	3.4	1.84	32.73	2.9	1.70

By Linear Regression of Y on X

Slope , mw = **0.0390** **Intercept, bw =** **0.4443**

Correlation coefficient* = **0.9973**

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.54**

Remarks:

Conducted by: Lee Man Hei Signature: Date: 19/4/2023

Checked by: Ho Ka Man Signature: Date: 19/4/2023

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	File No.	WMA20002/20/0019
Date:	16-Jun-23	Next Due Date:	15-Aug-23
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-20	Serial No.	3223

Ambient Condition			
Temperature, Ta (K)	299.6	Pressure, Pa (mmHg)	755.3

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	14.1	3.73	65.74	9.6	3.08
2	12.6	3.53	62.19	8.7	2.93
3	9.8	3.11	54.93	6.9	2.61
4	5.3	2.29	40.60	4.2	2.04
5	3.6	1.89	33.59	2.9	1.69

By Linear Regression of Y on X

Slope , mw = **0.0426** **Intercept, bw :** **0.2800**

Correlation coefficient* = **0.9996**

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.52**

Remarks:

Conducted by: Lee Man Hin Signature: Date: 16/6/2023

Checked by: Ho Ka Chun Signature: Date: 16/6/2023

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS3 - House near Tong Hang	File No.	WMA20002/17/0018
Date:	19-Apr-23	Next Due Date:	18-Jun-23
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-17	Serial No.	3218

Ambient Condition			
Temperature, Ta (K)	301	Pressure, Pa (mmHg)	757.9

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	14.0	3.72	65.47	9.0	2.98
2	11.9	3.43	60.42	8.0	2.81
3	9.6	3.08	54.34	6.7	2.57
4	5.4	2.31	40.94	4.1	2.01
5	3.7	1.91	34.02	2.9	1.69

By Linear Regression of Y on X

Slope , mw = **0.0412** **Intercept, bw =** **0.3122**

Correlation coefficient* = **0.9992**

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.39**

Remarks:

Conducted by: Signature: Date: 19/4/2023

Checked by: Signature: Date: 19/4/2023

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS3 - House near Tong Hang	File No.	WMA20002/17/0019
Date:	16-Jun-23	Next Due Date:	15-Aug-23
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-17	Serial No.	3218

Ambient Condition			
Temperature, Ta (K)	299.7	Pressure, Pa (mmHg)	755.6

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	16-Jan-24	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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	14.3	3.76	66.20	9.6	3.08
2	11.6	3.39	59.70	7.7	2.76
3	9.5	3.06	54.10	6.8	2.59
4	5.8	2.39	42.43	4.4	2.09
5	3.6	1.89	33.59	2.8	1.66

By Linear Regression of Y on X

Slope , mw = **0.0426** **Intercept, bw :** **0.2526**

Correlation coefficient* = **0.9985**

*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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.40**

Remarks:

Conducted by: Ho Man Hei Signature: Date: 16/6/2023

Checked by: Ho Lee Chi Signature: Date: 16/6/23

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RSP - Respirable Suspended Particulates Sampler (PM 10)
Field Calibration Report

Station	KTN-DMS4A - Temporary Structure at Pak Shek Au	File No.	WMA20002/03/0018
Date:	2-May-23	Next Due Date:	1-Jul-23
Model No.	TE-6070X	Operator:	HL
Equipment No.:	WA-11-03	Serial No.	3225

Ambient Condition			
Temperature, Ta (K)	300	Pressure, Pa (mmHg)	763.6

Orifice Transfer Standard Information					
Serial No.:	0993	Slope, mc	0.0574	Intercept, bc	-0.04292
Last Calibration Date:	16-Jan-23	Next Calibration Date:		16-Jan-24	

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	9.6	9.58	54.63	54.74	1.55	7.4	1.79
2	7.8	7.78	49.32	49.42	1.40	6.5	1.68
3	6.9	6.89	46.43	46.52	1.32	5.5	1.54
4	4.8	4.79	38.85	38.93	1.10	4.2	1.35
5	2.3	2.30	27.12	27.18	0.77	2.3	1.00

By Linear Regression of Y on X

Slope , mw = 0.0290 **Intercept, bw =** 0.2107

Correlation coefficient* = 0.9981

(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) = 40.01

Sampler Well - Type Manometer Set Point, SSP

SSP = [(mw x SFR + bw)^2 x Pa] / (Ta + 30) = 4.36

Remarks:

Conducted by: LIU MAN YAU Signature: Date: 2/5/2023

Checked by: Ho Ka Chun Signature: Date: 2/5/2023

TISCH Environmental

RECALIBRATION DUE DATE:
January 16, 2024

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 16, 2023	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 749.0	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	1.3860	3.2	2.00
2	3	4	1	0.9880	6.4	4.00
3	5	6	1	0.8810	8.0	5.00
4	7	8	1	0.8410	8.8	5.50
5	9	10	1	0.6950	12.8	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)
0.9981	0.7201	1.4159	0.9957	0.7184	0.8845
0.9938	1.0059	2.0024	0.9915	1.0035	1.2509
0.9917	1.1257	2.2388	0.9893	1.1230	1.3985
0.9906	1.1779	2.3480	0.9883	1.1751	1.4668
0.9853	1.4177	2.8318	0.9829	1.4143	1.7690
QSTD	**m=**	**2.02881**	**QA**	**m=**	**1.27041**
	b=	**-0.04292**		**b=**	**-0.02681**
	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

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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.:	37893B
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
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

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Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
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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.:	37893C
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
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.	: 580006
Equipment No.	: WN-01-04

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

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37893D
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
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.	: 580007
Equipment No.	: WN-01-05

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:
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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37893E
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2024-03-05
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:
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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37894A
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12
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

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37163
Date of Issue:	2022-10-02
Date Received:	2022-09-30
Date Tested:	2022-10-02
Date Completed:	2022-10-02
Next Due Date:	2023-10-01
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
PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	37018A
Date of Issue:	2022-08-22
Date Received:	2022-08-19
Date Tested:	2022-08-19
Date Completed:	2022-08-22
Next Due Date:	2023-08-21
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 Temperatre	: 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

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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.:	37163A
Date of Issue:	2022-10-02
Date Received:	2022-09-30
Date Tested:	2022-10-02
Date Completed:	2022-10-02
Next Due Date:	2023-10-01
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

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N.T., Hong Kong.
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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.:	38018
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to 2023-03-24
Date Completed:	2023-03-24
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

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PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

Test Report No.:	38018
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to 2023-03-24
Date Completed:	2023-03-24

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13200	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	3.97	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.84	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.09	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.16	8.04	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	10.11	9.0-11.0	Pass
50 NTU	50.21	45.0-55.0	Pass
100 NTU	102.3	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**********

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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.:	38018A
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to 2023-03-24
Date Completed:	2023-03-24
Page:	1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-83	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17A104735
- EXO Optical DO Sensor, Ti	599100-01	17B102220
- EXO conductivity/Temperature Sensor, Ti	599870	17B100808
- EXO Turbidity Sensor, Ti	599101-01	18C101823
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B103644

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

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TEST REPORT

Test Report No.:	38018A
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to 2023-03-24
Date Completed:	2023-03-24

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (µS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 µS/cm)	12800	12246-13534	Pass

Temperature performance checking

Reference thermometer-E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.003	-0.003	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	4.01	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.81	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	0.09	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.16	8.11	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	9.59	9.0-11.0	Pass
50 NTU	51.63	45.0-55.0	Pass
100 NTU	103.2	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**********

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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.:	38423
Date of Issue:	2023-06-21
Date Received:	2023-06-20
Date Tested:	2023-06-20 to 2023-06-21
Date Completed:	2023-06-21
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

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TEST REPORT

Test Report No.:	38423
Date of Issue:	2023-06-21
Date Received:	2023-06-20
Date Tested:	2023-06-20 to 2023-06-21
Date Completed:	2023-06-21
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13100	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	4.02	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.88	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.09	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.18	8.05	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	10.04	9.0-11.0	Pass
50 NTU	50.22	45.0-55.0	Pass
100 NTU	101.5	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**********

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

CERTIFICATE OF ANALYSIS

CONTACT:	MR FUNG	WORK ORDER:	HK2238648
CLIENT:	AECOM ASIA COMPANY LIMITED		
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	03-Oct-2022
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	13-Oct-2022

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 "Date of next Calibration" 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.:	OPTIMA7 Biogas
Serial No./Equipment No.:	331555
Date of Calibration:	11 October, 2022

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms Chan Ka Yu, Karen
Manager - Organics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK2238648
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 13-Oct-2022

Equipment Type: Landfill Gas Analyser
Brand Name/ Model No.: OPTIMA7 Biogas
Serial No./ Equipment No.: 331555
Date of Calibration: 11 October, 2022 Date of next Calibration: 11 October, 2023

Parameters:

Methane

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.00	0.00	± 0.30
1.0	1.02	0.02	± 0.30
2.5	2.45	-0.05	± 0.30
50.0	48.57	-1.43	± 2.50

Carbon Dioxide

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.00	0.00	± 0.30
1.0	1.08	0.08	± 0.30
2.5	2.58	0.08	± 0.30
10.0	10.02	0.02	± 0.50
50.0	47.50	-2.50	± 2.50

Oxygen

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.00	0.00	± 0.20
0.5	0.43	-0.07	± 0.20
2.5	2.54	0.04	± 0.20
10.0	10.14	0.14	± 0.20

Ms Chan Ka Yu, Karen
Manager - Organics

检 验 报 告
Calibration Test Report

NO. WVS400-A863866042288063

产品名称	4G 振动传感器 AS400-4G
序列号	A863866042288063
检测项目	精度验证
公司名称	无锡北微传感科技有限公司
检测部门	质检部
日期	02 APR 2023

北微傳感

BWSENSING

检测项目 Test Item	振动精度验证 Accuracy Verification
产品型号 Model	AS400-4G
依据标准 Standard	GB/T 13823.20-2008/ISO 5347-22:1997 振动与冲击传感器的校准方法加速度计谐振测试通用方法 Methods for the calibration of vibration and shock pick-up
测试环境 Test Env.	室内 25 摄氏度 Room Temperature 25°C
产品精度 Precision	3%测量精度误差 3% Tolerance in vibration test

检测序列 Test Record

序列 Seq.	振动预设 Preset Vib. g	PCB 加速度计读数 PCB Acc. Reading	产品 X 轴 Product X-Axial, g	产品 Y 轴, Product Y-Axial, g	产品 Z 轴, Product Z-Axial, g	最大误差值 Max. Tolerance %
1	0.1	0.100	0.103	0.098	0.101	3.0
2	0.2	0.204	0.196	0.197	0.203	2.0
3	0.5	0.491	0.513	0.488	0.504	2.6
4	0.7	0.698	0.715	0.702	0.702	2.1
5	1.0	0.981	0.978	0.995	1.007	2.2

判断结果 Judgement	振幅判定 合格（ ✓ ） 不合格（ ）

Appendix Test Equipment

Nanjing Foneng HEV-500 Test Platform
(Cal. Expire date 10-Apr-2022)

OROS OR35 Analyzer & Software
(Cal. Expire date 02-Jun-2024)

Accelerometer
(Cal. Expire date 06-Jun-2024)

- END of Report -

FT Laboratories Ltd.
科達測檢試驗所有限公司

HOKLAS 071
TEST CAL

Calibration Report

Calibration No.	:	**92008051 - B14D3501**
Laboratory	:	FT Laboratories Ltd.
Address	:	Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories
Telephone	:	(852) 2758 4861
Facsimile	:	(852) 2758 8962
Customer	:	**CRCC-Paul Y. Joint Venture**
Address	:	**Unit A, 10/F., MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon.**

Item Calibrated	:	Name/Description:	Vibration meter
		Manufacturer:	Instantel
		Meter's model:	Micromate ISEE Std
		Serial no. of meter:	UM17121
		Serial no. of sensor:	UM17121
		Eqt. No.:	-

Reference Standard / Major Measurement Equipment	:	C/ACC/1 (CNAS Cert No.: 2HB21001704-0001)	Accelerometer
		C/OSC/2 (HKSCL Cert No.: RF210042)	Oscilloscope
		C/F-GEN/3 (CNAS Cert No.: 2HB21000253-0001)	Function Generator
		R/DMM/2 (CNAS Cert No.: 2HB21000253-0002)	Multimeter
		C/ES/1, C/AMP/3	Shaker and amplifier
Calibration Method	:	In-house procedure (CAL 091)	
		Calibration of Vibration meters by comparison with reference transducer.	
Date of item received	:	14 Feb., 2023	
Date of Calibration	:	16 Feb., 2023	
Location of Calibration	:	Calibration Laboratory of FT Laboratories Ltd.	
Calibration Conditions			
Temperature	:	20 ± 3 °C	
Relative Humidity	:	30% to 80%	
Test Results	:	The test results are detailed in the subsequent page(s).	

HOKLAS Approved Signatory : _____ Date of Issue: 21 FEB 2023

☐ LAI Wing Chun, Victor (General Manager)

☑ CHAN Joseph Nicolas (Senior Technical Engineer)

Notes:

(1) **The above equipment has been calibrated against standards which are traceable to internationally recognized standards.**

(2) **Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.**

(3) **Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards.**

(4) **This certificate shall not be reproduced, except in full, without the written approval of FT Laboratories Ltd.**

Calibration Report

Calibration No. : **92008051 - B14D3501**

Results

(1) Frequency response at 10.0 mm/s (velocity measurement)

Frequency (Hz)	Measured velocity in the following direction (mm/s)			Error in the following direction (mm/s)		
	Vert.	Tran.	Long.	Vert.	Tran.	Long.
20	10.330	10.546	10.483	0.330	0.546	0.483
60	10.173	10.764	10.701	0.173	0.764	0.701
100	10.210	11.576	12.099	0.210	1.576	2.099

Error for frequency response = Measured velocity (mm/s) minus 10.0 mm/s

(2) Level linearity at 60Hz (velocity measurement)

Reference level (mm/s)	Measured velocity in the following direction (mm/s)			Error in the following direction (mm/s)		
	Vert.	Tran.	Long.	Vert.	Tran.	Long.
5.0	5.131	5.531	5.654	0.131	0.531	0.654
10.0	10.173	10.764	10.701	0.173	0.764	0.701
20.0	20.130	21.478	22.227	0.130	1.478	2.227

Error for level linearity = Measured velocity (mm/s) minus Reference level (mm/s)

Remarks:

(A) The expanded uncertainty of measurement relative to "measured values" with k=2,
10.7 % For frequency range 20 Hz to 100 Hz; 0.1 g to 0.8 g

(B) Each reported result is the mean of three measurements on UUT (unit-under-test).

(C) Before calibration, the UUT was allowed to stabilise in the laboratory environment for at least 1 hr.

(D) The reported uncertainty is the expanded uncertainty U for a level of confidence of 95%, together with a coverage factor k. The combined standard uncertainty u_c can be calculated as u_c=U/k and its k value.

(E) The values given in this Calibration Report only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

(F) The UUT was mounted in the vibration shaker using mounting jigs and cyanoacrylate adhesive or petro wax.

(G) Applicable g value used, 1g = 9.80665 m/s^2, as per C/ACC/1 report no. SSD20071651.

<End of Report>

Calibrated by: Yan Wing Man
Date: 16 Feb., 2023

Checked by: CH Cheung
Date: 17 FEB 2023

FT Laboratories Ltd.
科達測檢試驗所有限公司
Calibration Report

HOKLAS 071 TEST CAL

Calibration No.	:	92008051 - B14D3601
Laboratory	:	FT Laboratories Ltd
Address	:	Lot No. DD77 Section 1552 S.Ass 1RP, Ng Chow South Road, Ping Che, Fanling, New Territories
Telephone	:	(852) 2758 4861
Facsimile	:	(852) 2758 8962
Customer	:	CRCC-Paul Y. Joint Venture
Address	:	Unit A, 10/F., MG Tower, 133 Hoi Bun Road, Kwun Tong, Kowloon.
Unit under test (UUT)	:	Description: Tiltmeter Sensor Manufacturer: Sung Jin Model: SJ-705 Serial No.: 121871 Eqt No.: -
Reference Standard / Major Measurement Equipment	:	C/CAL/5 (CNAS Cert No.: CDP202104081)
Calibration Method	:	In-house Procedure (CAL 112) Comparison of UUT reading against reference clinometer reading while mounted in an angle generator jig.
Date of item received	:	14 Feb , 2023
Date of Calibration	:	14 Feb , 2023
Location of Calibration	:	Calibration Laboratory of FT Laboratories Ltd.
Calibration Conditions		
Temperature	:	20 ± 3°C
Relative Humidity	:	30% to 80%
Test Results	:	The test results are detailed in the subsequent page(s).

HOKLAS Approved Signatory : _____ Date of Issue: 21 FEB 2023

☐ LAI Wing Chun, Victor (General Manager)

☑ CHAN Joseph Nicolas (Senior Technical Engineer)

Notes:

(1) **The above equipment has been calibrated against standards which are traceable to internationally recognized standards.**

(2) **Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.**

(3) **Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards.**

(4) **This certificate shall not be reproduced, except in full, without the written approval of FT Laboratories Ltd.**

FT Laboratories Ltd.
科達測檢試驗所有限公司
Calibration Report

HOKLAS 071 TEST CAL

Calibration No. : 92008051 - B14D3601

Results:

Reference angle (°)	UUT reading (see Note 1)	Error of reading (see Note 2)	Expanded Uncertainty, U (°)	Coverage factor, k
Horizontal measurement				
5.009	4.943	-0.066	0.029	1.96
2.504	2.473	-0.032	0.029	1.96
1.001	0.986	-0.015	0.029	1.96
0.000	-0.007	-0.007	0.029	1.96
-1.002	-0.994	0.008	0.029	1.96
-2.504	-2.481	0.023	0.029	1.96
-5.008	-4.958	0.050	0.029	1.96
Vertical measurement				
5.009	4.921	-0.088	0.029	1.96
2.504	2.448	-0.057	0.029	1.96
1.001	0.964	-0.038	0.029	1.96
0.000	-0.026	-0.026	0.029	1.96
-1.002	-1.018	-0.016	0.029	1.96
-2.504	-2.504	0.000	0.029	1.96
-5.008	-4.979	0.029	0.029	1.96

Note:

(1) UUT reading = (the reading when (+) sign on the left - the reading when (-) sign on the left) / 2

(2) Error of reading = UUT reading - Reference angle

Remarks:

(A) The tiltmeter and readout system were calibrated together as a single measuring system (UUT).

(B) Before calibration, the UUT and referece were allowed to stabilize in the laboratory for at least 30 mins while the UUT was also switched on for at least 30 mins.

(C) The reported uncertainties are the expanded uncertainty U for a level of confidence of 95%, together with their coverage factor k. The combined standard uncertainties can be calculated as uc = U/k and their k values are given by t-distribution with its degrees of freedom ν_{efi}.

(D) The values given in this Calibration Report only relate to the unit-under-test (UUT) and the values measured at the time of test. Any uncertainties quoted will not include allowances for the environment changes, variation and shock during transportation,

< End of Report >

Calibrated by: Yan Wing Man

Date: 14 Feb., 2023

Checked by: CH Chung

Date: 17 FEB 2023

CALIBRATION CERTIFICATE

Calibration Item:	Micromate System ISEE (Calibration with Geophone UM17124)
Model No.:	721A2501
Serial No.:	UM17124
Calibration Date:	1 March 2023
Next Calibration Date:	1 March 2024
Method Used:	In-house Method B3-001
In-house Testing Procedure No.:	B3-001

Test References	Model	Serial No.
Minimate Pro 4	720A2301	MP12550
ISEE Triaxial Geophone	720A2001	SE12565
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06

*References are traceable to NIST or equivalent.

INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

Authorized by: _____

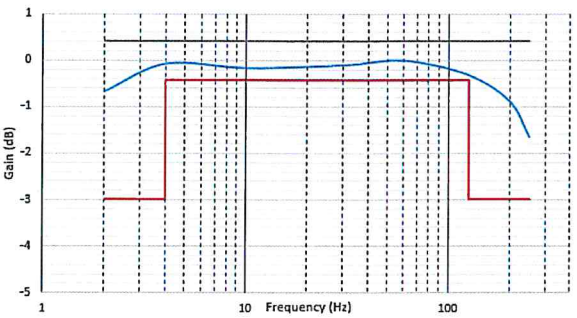
(Anson Kan)

Date: 1 March 2023

Frequency Responses of UM17124

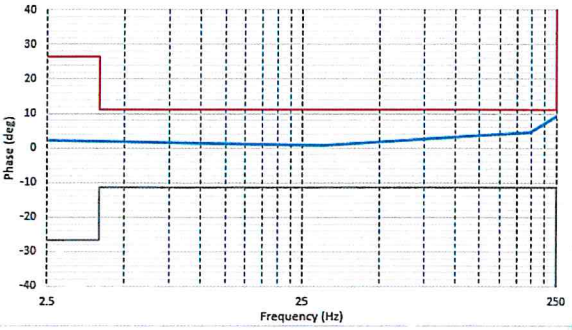
Vertical

Frequency Response of UM17124



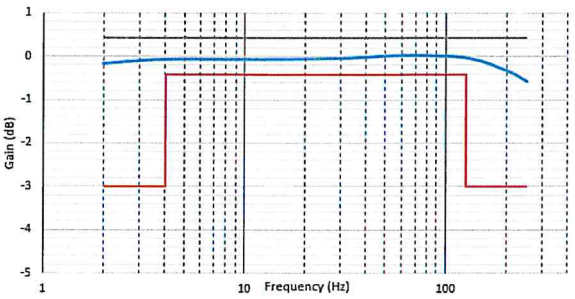
Vertical

Phase Response of UM17124



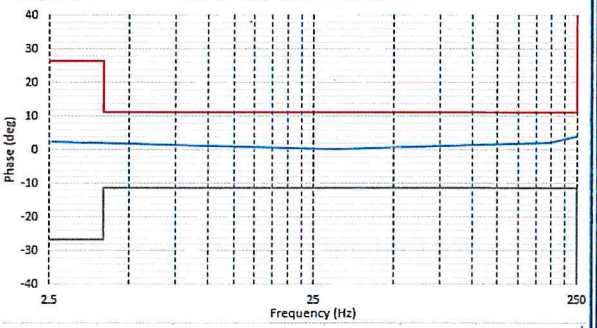
Longitudinal

Frequency Response of UM17124



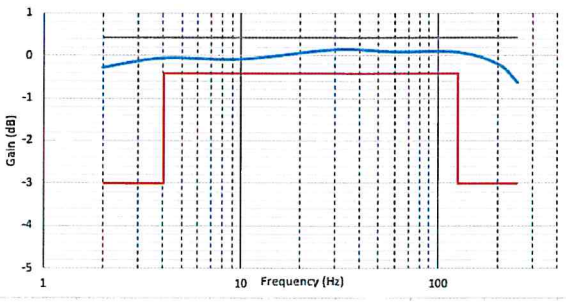
Longitudinal

Phase Response of UM17124



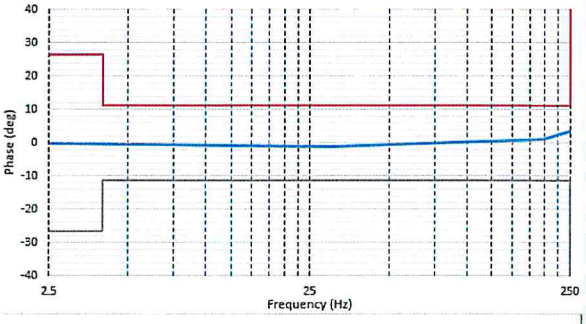
Transverse

Frequency Response of UM17124



Transverse

Phase Response of UM17124



CALIBRATION CERTIFICATE

Calibration Item:	TRIAXIAL GEOPHONE (Calibration with main unit UM17124)
Part Number:	721A2901
Serial No.:	UM17124
Calibration Date:	1 March 2023
Next Calibration Date:	1 March 2024
Method Used:	In-house Method B3-001
In-house Testing Procedure No.:	B3-001

Test References	Model	Serial No.
Minimate Pro 4	720A2301	MP12550
ISEE Triaxial Geophone	720A2001	SE12565
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06

*References are traceable to NIST or equivalent.

INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

Authorized by: _____

(Anson Kan)

Date: 1 March 2023

CALIBRATION CERTIFICATE

Calibration Item:	Micromate System ISEE (Calibration with Geophone UM17126)
Model No.:	721A2501
Serial No.:	UM17126
Calibration Date:	17 February 2023
Next Calibration Date:	17 February 2024
Method Used:	In-house Method B3-001
In-house Testing Procedure No.:	B3-001

Test References	Model	Serial No.
Minimate Pro 4	720A2301	MP12550
ISEE Triaxial Geophone	720A2001	SE12565
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06

*References are traceable to NIST or equivalent.

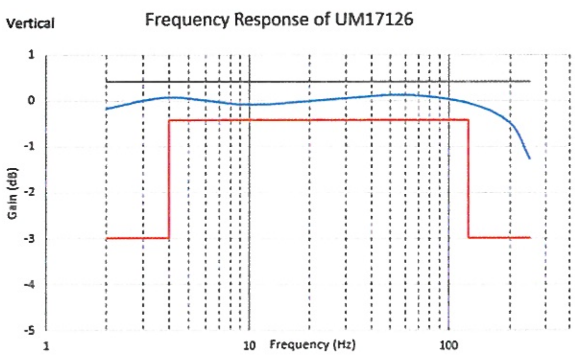
INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

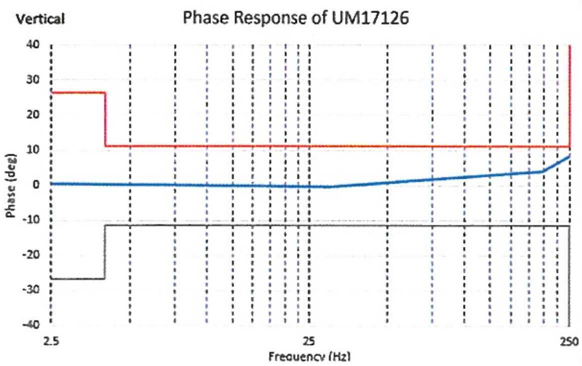
Authorized by: _____

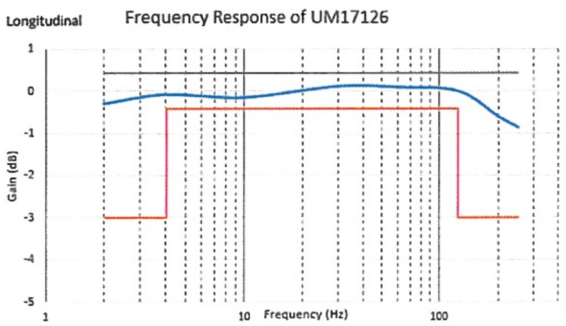
(Anson Kan)

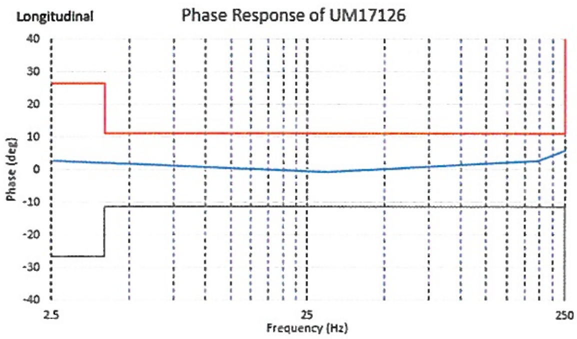
Date: 17 February 2023

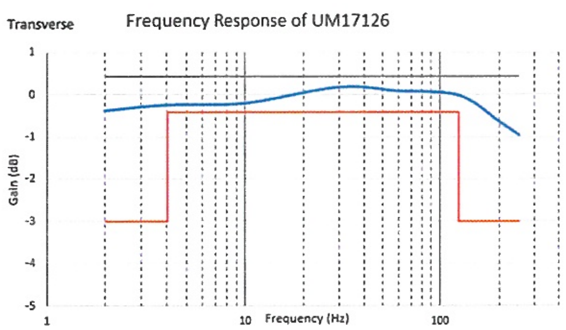
Frequency Responses of UM17126

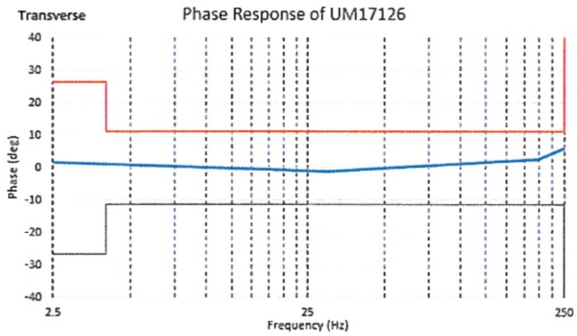












CALIBRATION CERTIFICATE

Calibration Item:	TRIAXIAL GEOPHONE (Calibration with main unit UM17126)
Part Number:	721A2901
Serial No.:	UM17126
Calibration Date:	17 February 2023
Next Calibration Date:	17 February 2024
Method Used:	In-house Method B3-001
In-house Testing Procedure No.:	B3-001

Test References	**Model**	**Serial No.**
Minimate Pro 4	720A2301	MP12550
ISEE Triaxial Geophone	720A2001	SE12565
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06

*References are traceable to NIST or equivalent.

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Authorized by: ______________________

(Anson Kan)

Date: 17 February 2023

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 (June 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
					24hr RSP (Arsenic) KTN-DMS4A	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3	
18-Jun	19-Jun	20-Jun	21-Jun	**22-Jun**	23-Jun	24-Jun
		1hr TSP* X3 FLN-DMS1, FLN-DMS3 **24hr RSP (Arsenic)** KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3		**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2	
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
	24hr RSP (Arsenic) KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	

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 (June 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
						Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
	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	
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
	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	
18-Jun	19-Jun	20-Jun	21-Jun	**22-Jun**	23-Jun	24-Jun
	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	
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
	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	

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 (June 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
					Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 09:00 Low tide: Start time: 13:00 Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 09:00 Low tide: Start time: 13:00	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
	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: 15:00	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: 16:00				
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
			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 Ng Tung River **T1 T2** High tide: Start time: 09:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 09:00 Low tide: Start time: 13:00	
18-Jun	19-Jun	20-Jun	21-Jun	**22-Jun**	23-Jun	24-Jun
	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: 15:00	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 Ng Tung River **T1 T2** High tide: Start time: 10:00 Low tide: Start time: 16:00		Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T3, T4, T5**	
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
				Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 08:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 08:00 Low tide: Start time: 13:00	

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Egretry Monitoring Schedule for June 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
18-Jun	19-Jun	20-Jun	21-Jun	**22-Jun**	23-Jun	24-Jun
25-Jun	26-Jun	27-Jun	28-Jun			
	Egretry Monitoring Ho Sheung Heung Egretry Site, Compensation Site A1-7 FLN and B1-7 FLN, Meanders of Split Colony					

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 June 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
				Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)		Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/02) Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
	Site Inspection (ND/2019/02)		Site Inspection (ND/2019/01) Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
18-Jun	19-Jun	20-Jun	21-Jun	**22-Jun**	23-Jun	24-Jun
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/02) Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)			
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	

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 (July 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr TSP** FLN-DMS1, FLN-DMS3	
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3	
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
		24hr RSP (Arsenic) KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
	24hr RSP (Arsenic) KTN-DMS4A	**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 TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**24hr RSP (Arsenic)** KTN-DMS4A	
30-Jul	31-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 TSP** FLN-DMS1, FLN-DMS3					

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 (July 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-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	
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-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	
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-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	
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-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	
30-Jul	31-Jul					
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream					

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 (July 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-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: 15:00	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: 16:00		Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution T3, T4, T5		
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
				Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 08:00 Low tide: Start time: 14:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 09:00 Low tide: Start time: 14:00	
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T1, T6**	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: 10:00 Low tide: Start time: 16:00	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: 16:00		
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-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: 08:00	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: 10:00				
30-Jul	31-Jul					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Egretry Monitoring Schedule for July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
			Egretry Monitoring Ho Sheung Heung Egretry Site, Compensation Site A1-7 FLN and B1-7 FLN, Meanders of Split Colony			
30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-Aug	5-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 July 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jul
2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/06)	Site Inspection (ND/2019/03) Site Inspection (ND/2019/07)	
30-Jul	31-Jul					
	Site Inspection (ND/2019/05)					

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 ($\mu g/m^3$)
6-Jun-23	13:00	Rainy	35.9
6-Jun-23	14:00	Rainy	29.1
6-Jun-23	15:00	Rainy	23.0
12-Jun-23	13:00	Sunny	64.5
12-Jun-23	14:00	Sunny	51.8
12-Jun-23	15:00	Sunny	55.8
16-Jun-23	9:00	Rainy	31.8
16-Jun-23	10:00	Rainy	37.6
16-Jun-23	11:00	Rainy	26.4
20-Jun-23	9:00	Sunny	69.2
20-Jun-23	10:00	Sunny	59.1
20-Jun-23	11:00	Sunny	61.8
23-Jun-23	9:00	Cloudy	42.2
23-Jun-23	10:00	Cloudy	49.4
23-Jun-23	11:00	Cloudy	35.1
28-Jun-23	15:00	Cloudy	48.1
28-Jun-23	16:00	Cloudy	43.9
28-Jun-23	17:00	Cloudy	31.5
		Minimum	23.0
		Maximum	69.2
		Average	44.2

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
6-Jun-23	13:00	Rainy	32.5
6-Jun-23	14:00	Rainy	24.1
6-Jun-23	15:00	Rainy	20.9
12-Jun-23	13:00	Sunny	56.3
12-Jun-23	14:00	Sunny	38.7
12-Jun-23	15:00	Sunny	33.6
16-Jun-23	9:00	Rainy	25.1
16-Jun-23	10:00	Rainy	20.5
16-Jun-23	11:00	Rainy	24.5
20-Jun-23	9:00	Sunny	63.3
20-Jun-23	10:00	Sunny	54.2
20-Jun-23	11:00	Sunny	55.9
23-Jun-23	9:00	Cloudy	37.8
23-Jun-23	10:00	Cloudy	45.8
23-Jun-23	11:00	Cloudy	43.3
28-Jun-23	9:00	Sunny	42.0
28-Jun-23	10:00	Sunny	32.8
28-Jun-23	11:00	Sunny	25.5
		Minimum	20.5
		Maximum	63.3
		Average	37.6

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
5-Jun-23	9:00	Sunny	58.2
5-Jun-23	10:00	Sunny	60.1
5-Jun-23	11:00	Sunny	52.9
9-Jun-23	9:00	Cloudy	22.0
9-Jun-23	10:00	Cloudy	24.5
9-Jun-23	11:00	Cloudy	24.3
15-Jun-23	9:00	Cloudy	43.9
15-Jun-23	10:00	Cloudy	49.0
15-Jun-23	11:00	Cloudy	56.4
21-Jun-23	14:00	Sunny	31.2
21-Jun-23	15:00	Sunny	23.1
21-Jun-23	16:00	Sunny	21.6
27-Jun-23	13:10	Sunny	35.6
27-Jun-23	14:10	Sunny	21.7
27-Jun-23	15:20	Sunny	27.4
		Minimum	21.6
		Maximum	60.1
		Average	36.8

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu g/m^3$)
5-Jun-23	13:00	Sunny	69.9
5-Jun-23	14:00	Sunny	52.7
5-Jun-23	15:00	Sunny	47.8
9-Jun-23	13:00	Cloudy	19.4
9-Jun-23	14:00	Cloudy	19.2
9-Jun-23	15:00	Cloudy	18.8
15-Jun-23	13:00	Rainy	40.5
15-Jun-23	14:00	Rainy	30.4
15-Jun-23	15:00	Rainy	31.9
21-Jun-23	13:00	Sunny	29.1
21-Jun-23	14:00	Sunny	22.4
21-Jun-23	15:00	Sunny	23.1
27-Jun-23	9:00	Sunny	37.2
27-Jun-23	10:00	Sunny	40.9
27-Jun-23	11:00	Sunny	27.6
		Minimum	18.8
		Maximum	69.9
		Average	34.1

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			
5-Jun-23	Cloudy	302.1	2.8915	2.9956	0.1041	7922.9	7946.9	24.0	1.20	1.21	1.21	1735.2	60.0
9-Jun-23	Cloudy	299.7	2.9591	3.0179	0.0588	7946.9	7970.9	24.0	1.21	1.21	1.21	1743.2	33.7
15-Jun-23	Rainy	299.6	2.9094	2.9657	0.0563	7970.9	7994.9	24.0	1.21	1.21	1.21	1740.9	32.3
21-Jun-23	Cloudy	301.5	2.9845	3.0690	0.0845	7994.9	8018.9	24.0	1.21	1.21	1.21	1746.7	48.4
27-Jun-23	Cloudy	299.8	2.9398	3.0086	0.0688	8018.9	8042.9	24.0	1.22	1.22	1.22	1754.2	39.2
												Min	32.3
												Max	60.0
												Average	42.7

Location FLN-DMS3 - House near Tong Hang

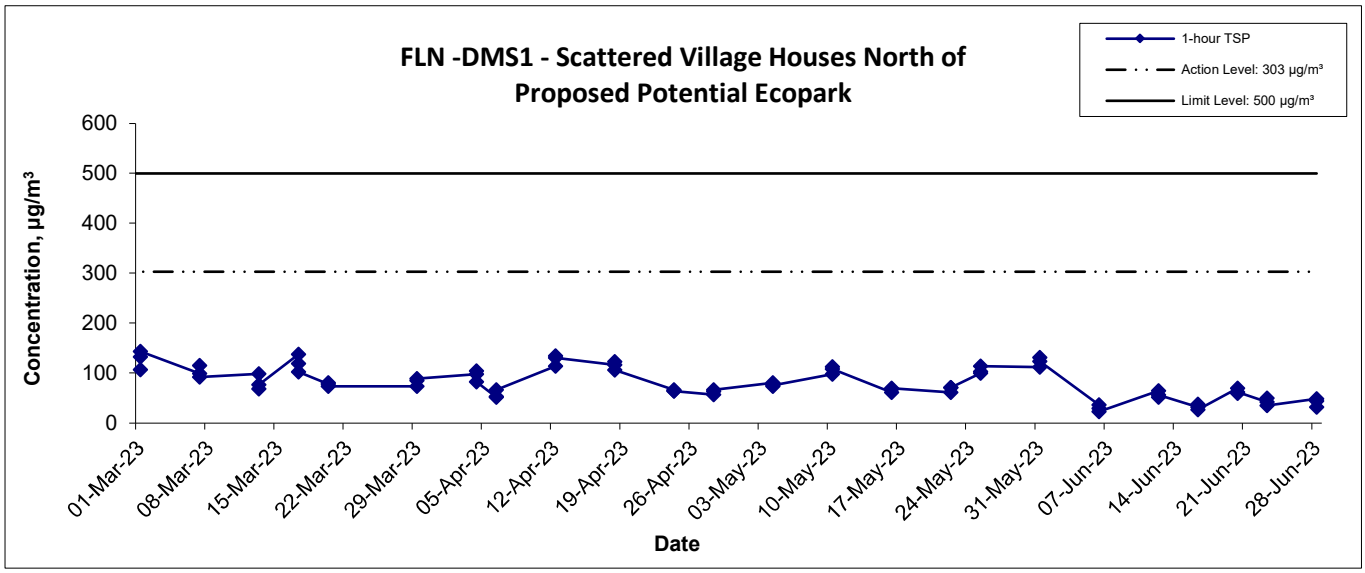
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
			Initial	Final		Initial	Final		Initial	Final			
5-Jun-23	Cloudy	302.1	2.9756	3.0301	0.0545	9085.4	9109.4	24.0	1.21	1.22	1.22	1749.9	31.1
9-Jun-23	Cloudy	299.7	2.9347	2.9817	0.0470	9109.4	9133.4	24.0	1.22	1.22	1.22	1757.5	26.7
15-Jun-23	Rainy	299.6	3.0160	3.0664	0.0504	9133.4	9157.4	24.0	1.22	1.22	1.22	1755.2	28.7
21-Jun-23	Cloudy	301.5	2.9518	3.0076	0.0558	9157.4	9181.4	24.0	1.22	1.21	1.22	1750.4	31.9
27-Jun-23	Cloudy	299.8	2.9614	2.9931	0.0317	9181.4	9205.4	24.0	1.22	1.22	1.22	1757.8	18.0
												Min	18.0
												Max	31.9
												Average	27.3

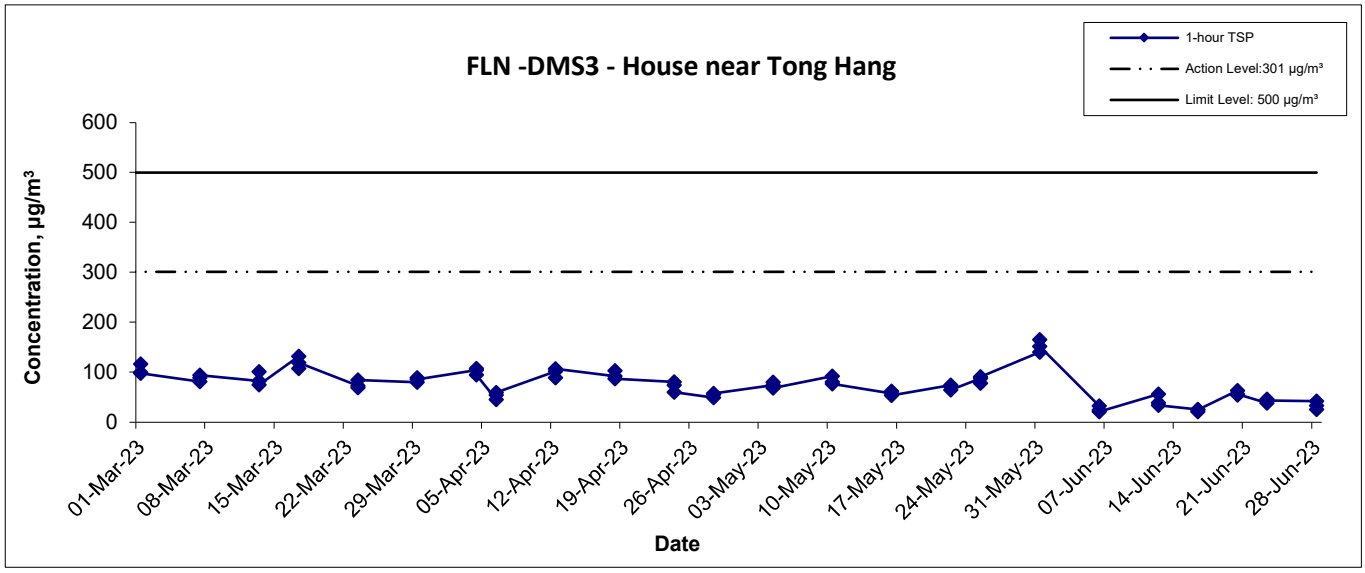
Appendix E - 24-hour TSP Monitoring Results

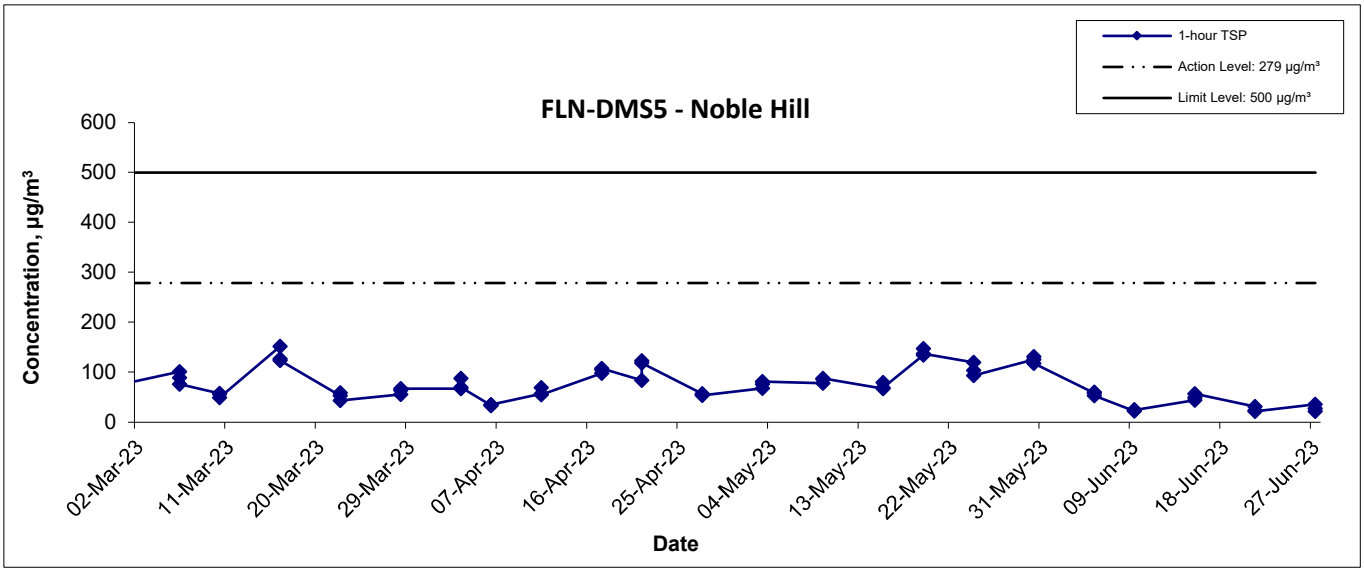
Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration (μg/m^3)
5-Jun-23	10:00	Sunny	68.5
9-Jun-23	11:00	Cloudy	25.2
15-Jun-23	11:30	Rainy	25.1
21-Jun-23	9:00	Sunny	29.4
27-Jun-23	9:00	Sunny	39.7
		Minimum	25.1
		Maximum	68.5
		Average	37.6

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration (μg/m^3)
5-Jun-23	9:30	Sunny	63.5
9-Jun-23	11:30	Cloudy	20.7
15-Jun-23	9:45	Rainy	37.0
21-Jun-23	9:00	Sunny	34.6
27-Jun-23	9:00	Sunny	48.7
		Minimum	20.7
		Maximum	63.5
		Average	40.9

1-hr TSP Concentration Levels

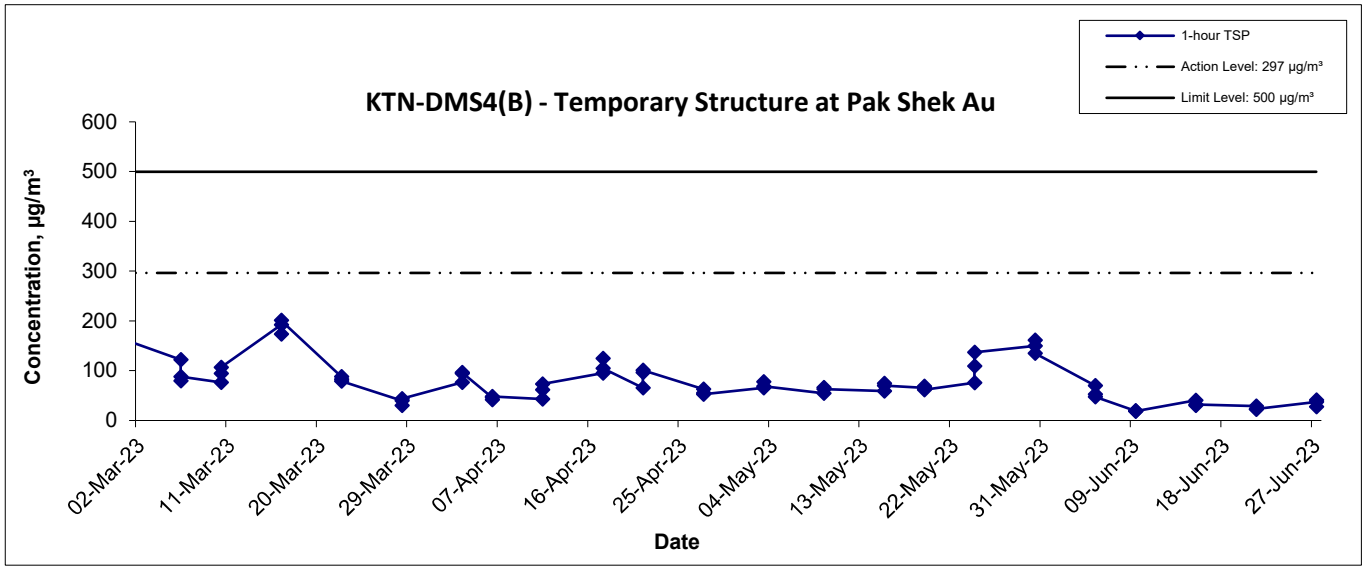






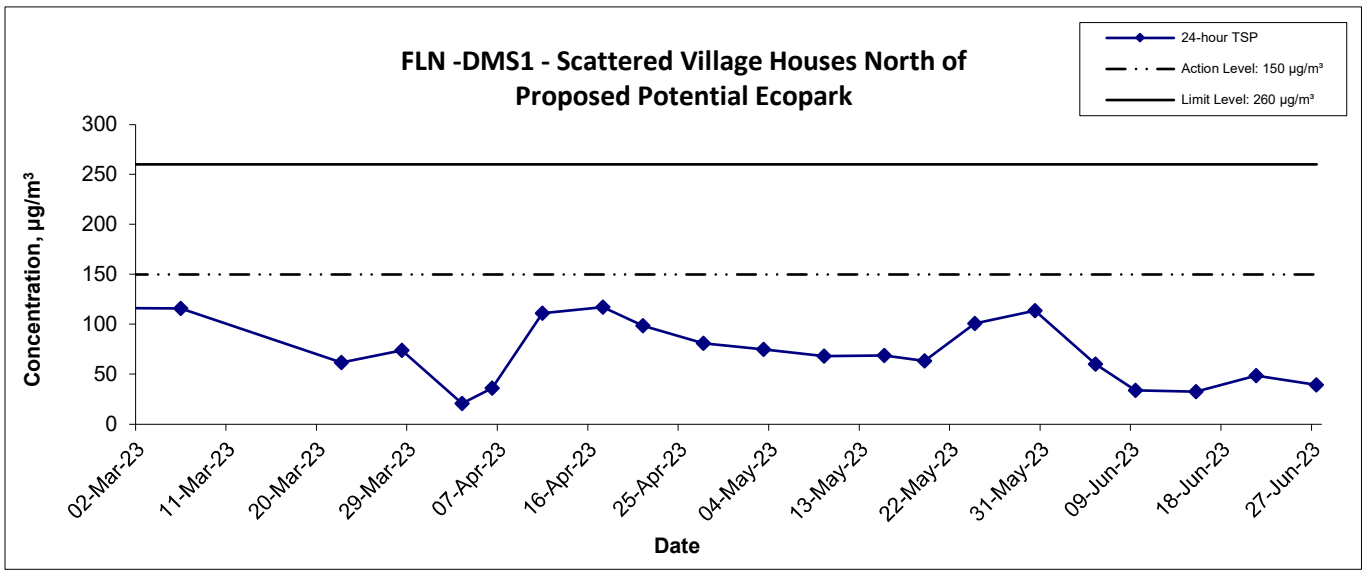
Title		Scale	Project No.	
	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Graphical Presentation of 1-hour TSP Monitoring Results	Date Jun 23	Appendix E	

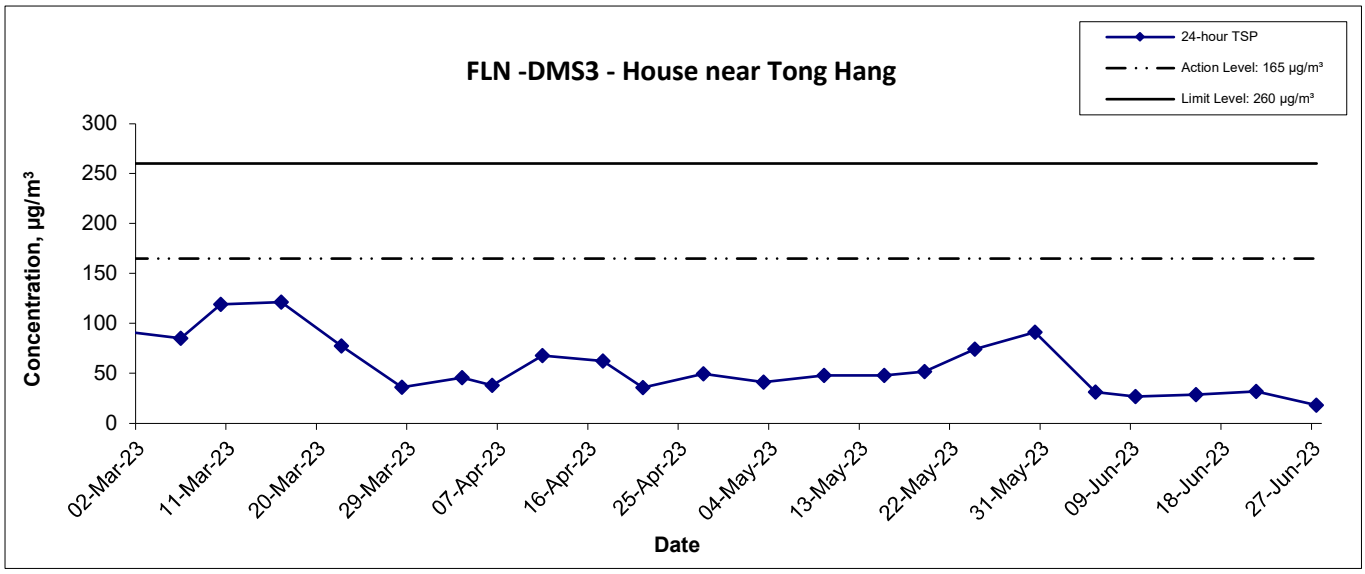
1-hr TSP Concentration Levels

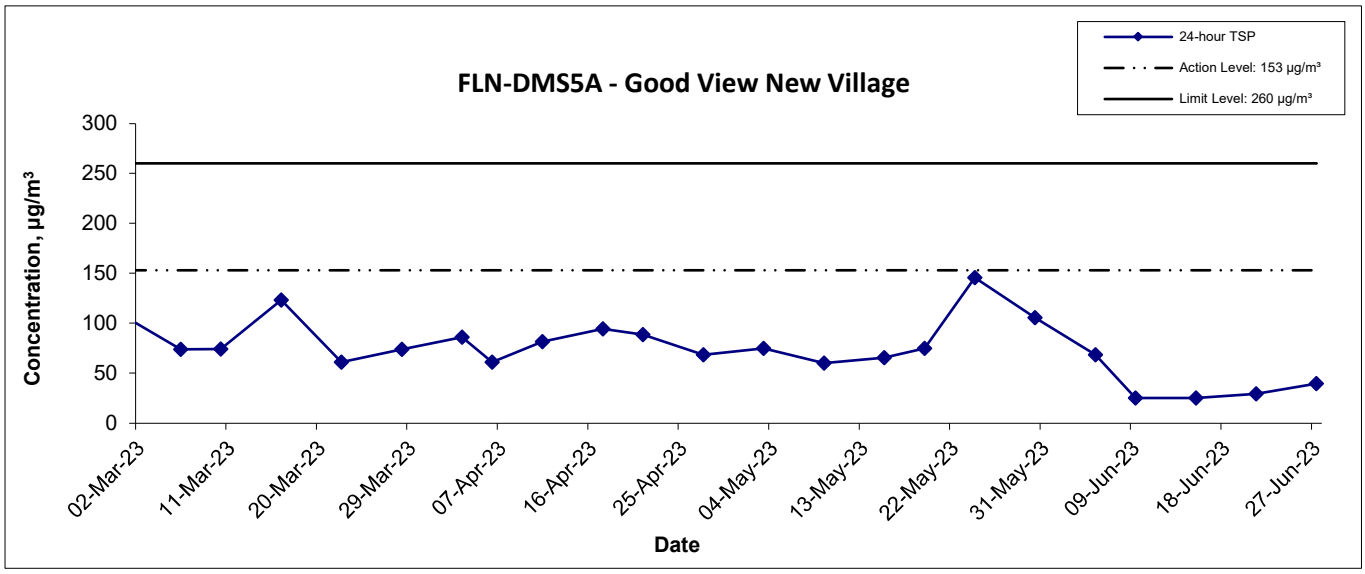


Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale: N.T.S Date: Jun 23	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

24-hr TSP Concentration Levels







Title	Scale	Project No.
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	N.T.S	WMA20002
	Date: Jun 23	Appendix: E

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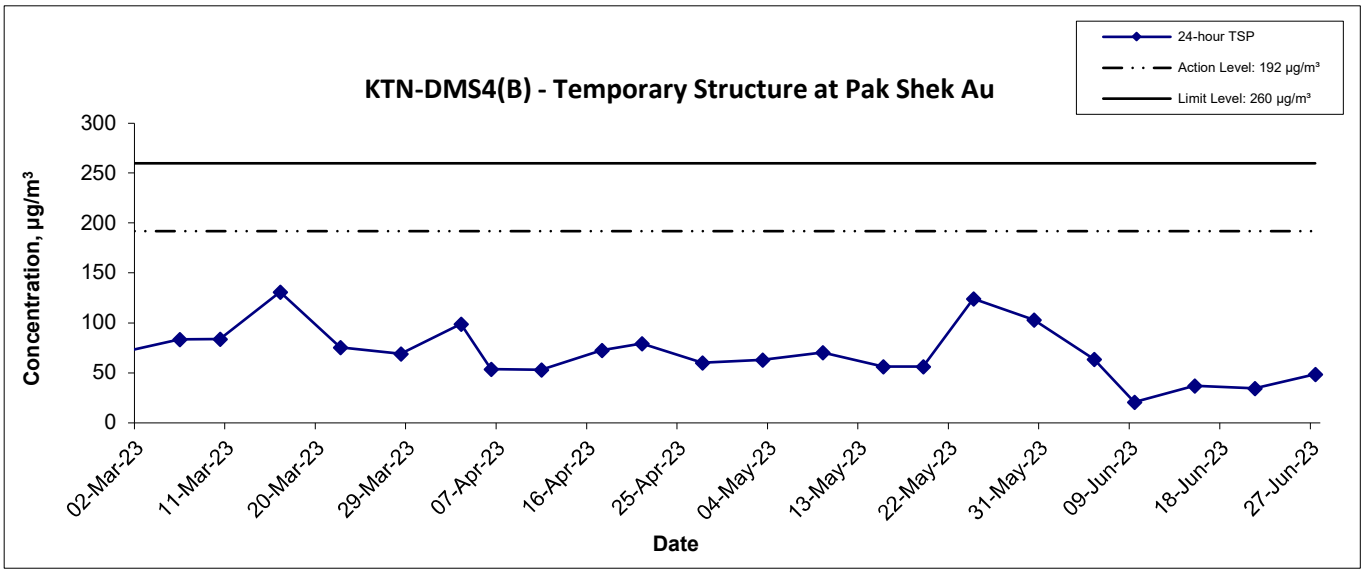
24-hr TSP Concentration Levels

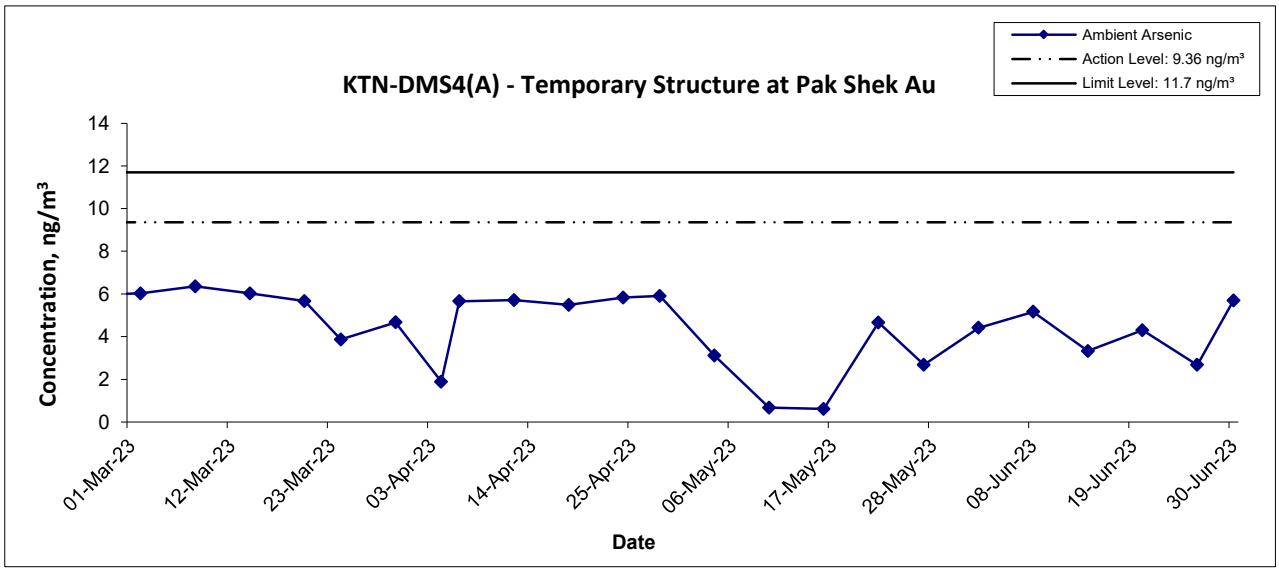


Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale: N.T.S Date: Jun 23	Project 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)
2-Jun-23	7.3	1654.1	4.41
8-Jun-23	8.5	1646.2	5.16
14-Jun-23	5.5	1654.5	3.32
20-Jun-23	7.1	1649.9	4.30
26-Jun-23	4.4	1645.6	2.67
30-Jun-23	9.4	1648.8	5.70

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: Jun 23	Project No.: WMA20002 Appendix: E	WELLAB 匯力 consulting . testing . research

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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.:	38355
Date of Issue:	2023-06-08
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-08
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38355
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	220411/063
Sample No.	38355-1
Arsenic (µg)	7.3

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

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC38355
Date of Issue:	2023-06-08
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-08

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)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	108	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	101	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 (%)	89	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38355

****

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General Manager

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TEST REPORT

Report No.:	QC38355
Date of Issue:	2023-06-08
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-08

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	92	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	13	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	104	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38355

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
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ATTN: **Ms Ivy Tam**

Report No.:	38397
Date of Issue:	2023-06-16
Date Received:	2023-06-13
Date Tested:	2023-06-13
Date Completed:	2023-06-16
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38397
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	220411/064
Sample No.	38397-1
Arsenic (µg)	8.5

Remarks: 1) < = less than
2) Results for the test material reported as received

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
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Report No.:	QC38397
Date of Issue:	2023-06-16
Date Received:	2023-06-13
Date Tested:	2023-06-13
Date Completed:	2023-06-16

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)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	107	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 (%)	122	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38397

****

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TEST REPORT

Report No.:	QC38397
Date of Issue:	2023-06-16
Date Received:	2023-06-13
Date Tested:	2023-06-13
Date Completed:	2023-06-16

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	120	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	103	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38397

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
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Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	38470
Date of Issue:	2023-06-21
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-21
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38470
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	220411/065
Sample No.	38470-1
Arsenic (µg)	5.5

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC38470
Date of Issue:	2023-06-21
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-21

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)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	108	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 (%)	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 38470

****

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TEST REPORT

Report No.:	QC38470
Date of Issue:	2023-06-21
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-21

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	111	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	4	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	107	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38470

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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.:	38471
Date of Issue:	2023-06-27
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-27
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38471
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	220411/066
Sample No.	38471-1
Arsenic (µg)	7.1

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
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Report No.:	QC38471
Date of Issue:	2023-06-27
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-27
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)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	103	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	106	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 (%)	101	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38471

****

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TEST REPORT

Report No.:	QC38471
Date of Issue:	2023-06-27
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-27

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	98	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	6	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	104	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38471

**********END OF REP ORT**********

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
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Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	38472
Date of Issue:	2023-06-30
Date Received:	2023-06-27
Date Tested:	2023-06-27
Date Completed:	2023-06-30
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38472
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	220411/067
Sample No.	38472-1
Arsenic (µg)	4.4

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.**

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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.:	QC38472
Date of Issue:	2023-06-30
Date Received:	2023-06-27
Date Tested:	2023-06-27
Date Completed:	2023-06-30

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	105	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 (%)	89	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38472

****

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For and On Behalf of **WELLAB Ltd.**

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General Manager

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TEST REPORT

Report No.:	QC38472
Date of Issue:	2023-06-30
Date Received:	2023-06-27
Date Tested:	2023-06-27
Date Completed:	2023-06-30

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	87	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	5	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	93	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38472

**********END OF REP ORT**********

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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.:	38473
Date of Issue:	2023-07-06
Date Received:	2023-07-03
Date Tested:	2023-07-03
Date Completed:	2023-07-06
Page:	1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 38473
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	220411/068
Sample No.	38473-1
Arsenic (µg)	9.4

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

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 (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

ATTN: **Ms Ivy Tam**

Report No.:	QC38473
Date of Issue:	2023-07-06
Date Received:	2023-07-03
Date Tested:	2023-07-03
Date Completed:	2023-07-06

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.03	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	108	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	102	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 (%)	116	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38473

****

PREPARED AND CHECKED BY:
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New Territories, Hong Kong
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TEST REPORT

Report No.:	QC38473
Date of Issue:	2023-07-06
Date Received:	2023-07-03
Date Tested:	2023-07-03
Date Completed:	2023-07-06

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	83	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	12	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	99	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 38473

**********END OF REP ORT**********

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}
6-Jun-23	Cloudy	09:10	73.1	76.2	69.2	69.7	69.9
		09:15	69.1	71.8	64.9		
		09:20	70.6	73.2	63.0		
		09:25	68.4	71.4	63.5		
		09:30	67.2	69.4	62.2		
		09:35	65.4	66.3	61.9		
12-Jun-23	Sunny	15:00	70.3	72.5	65.3	70.0	
		15:05	68.2	70.7	64.5		
		15:10	67.5	70.0	63.5		
		15:15	67.1	69.6	63.4		
		15:20	70.6	74.4	64.3		
		15:25	73.2	76.2	68.7		
23-Jun-23	Cloudy	09:15	66.9	68.5	61.7	66.8	
		09:20	67.5	70.3	62.3		
		09:25	66.8	69.4	61.5		
		09:30	65.6	67.8	61.3		
		09:35	66.7	68.3	61.5		
		09:40	67.2	69.1	61.7		
28-Jun-23	Cloudy	14:10	67.6	70.3	64.2	67.1	
		14:15	67.4	70.2	63.8		
		14:20	68.8	72.8	63.6		
		14:25	66.3	69.0	60.6		
		14:30	64.9	67.8	59.2		
		14:35	66.8	69.9	60.5		

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}
6-Jun-23	Cloudy	09:45	68.4	69.7	66.0	67.1	59.6
		09:50	66.5	66.8	65.1		
		09:55	66.8	67.5	66.3		
		10:00	66.6	67.0	66.3		
		10:05	67.0	68.1	66.2		
		10:10	66.7	67.9	66.3		
12-Jun-23	Sunny	16:05	66.7	67.4	66.0	66.6	
		16:10	66.3	66.8	65.4		
		16:15	66.0	66.7	65.3		
		16:20	67.5	69.5	65.5		
		16:25	66.5	67.6	65.2		
		16:30	66.6	67.6	65.8		
23-Jun-23	Cloudy	10:45	65.9	66.0	64.7	65.7	
		10:50	66.6	68.3	64.7		
		10:55	66.0	67.3	64.8		
		11:00	65.2	65.6	64.6		
		11:05	65.0	65.4	64.6		
		11:10	65.5	66.3	64.8		
28-Jun-23	Cloudy	09:14	65.0	65.5	64.3	65.1	
		09:19	65.0	65.7	64.3		
		09:24	65.1	66.7	64.0		
		09:29	65.1	66.1	64.1		
		09:34	65.2	66.4	64.0		
		09:39	65.0	66.0	63.8		

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}
9-Jun-23	Cloudy	10:00	60.1	62.6	56.8	59.8	58.6
		10:05	58.1	59.8	56.8		
		10:10	60.8	61.6	56.9		
		10:15	58.8	60.2	57.1		
		10:20	60.5	59.4	56.7		
		10:25	59.8	60.1	56.7		
15-Jun-23	Cloudy	09:30	62.7	63.5	61.7	60.6	
		09:35	62.5	64.0	61.1		
		09:40	60.8	61.6	60.1		
		09:45	60.2	60.7	59.7		
		09:50	58.7	60.5	50.6		
		09:55	54.7	55.9	51.1		
21-Jun-23	Sunny	14:30	62.6	63.2	56.6	58.6	
		14:35	54.8	57.4	51.4		
		14:40	53.4	55.2	50.9		
		14:45	56.5	58.8	53.4		
		14:50	59.0	61.5	54.1		
		14:55	59.0	61.5	54.1		
27-Jun-23	Sunny	13:50	67.5	70.0	62.0	62.3	
		13:55	59.4	62.5	54.7		
		14:00	57.9	59.1	53.5		
		14:05	57.5	57.7	54.9		
		14:10	61.0	64.5	55.7		
		14:15	60.8	64.8	53.1		

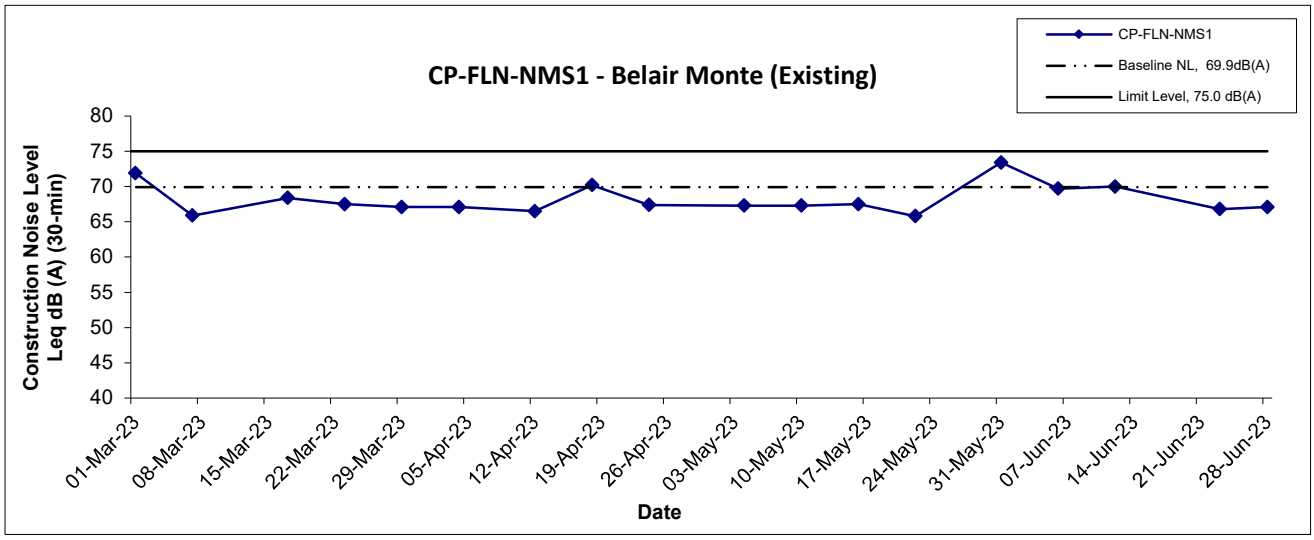
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Jun-23	Cloudy	10:40	58.1	62.5	53.2	60.0	51.6
		10:45	58.0	63.7	53.3		
		10:50	59.5	63.3	53.6		
		10:55	65.4	69.7	53.8		
		11:00	53.7	57.1	52.0		
		11:05	52.5	53.1	52.0		
15-Jun-23	Cloudy	09:25	52.6	57.0	47.0	53.7	
		09:30	54.5	57.7	47.3		
		09:35	53.2	57.2	46.7		
		09:40	54.3	57.6	47.5		
		09:45	52.9	57.0	47.4		
		09:50	54.5	57.7	47.9		
21-Jun-23	Sunny	14:15	57.7	63.6	50.0	57.9	
		14:20	55.0	56.2	52.4		
		14:25	60.8	68.0	51.5		
		14:30	57.1	57.5	51.6		
		14:35	58.7	59.2	51.7		
		14:40	55.3	56.4	51.4		
27-Jun-23	Sunny	14:40	54.6	56.6	52.2	56.1	
		14:45	58.1	60.5	52.3		
		14:50	53.2	54.7	51.7		
		14:55	57.2	59.9	51.5		
		15:00	56.3	57.7	53.1		
		15:05	55.1	57.6	53.6		

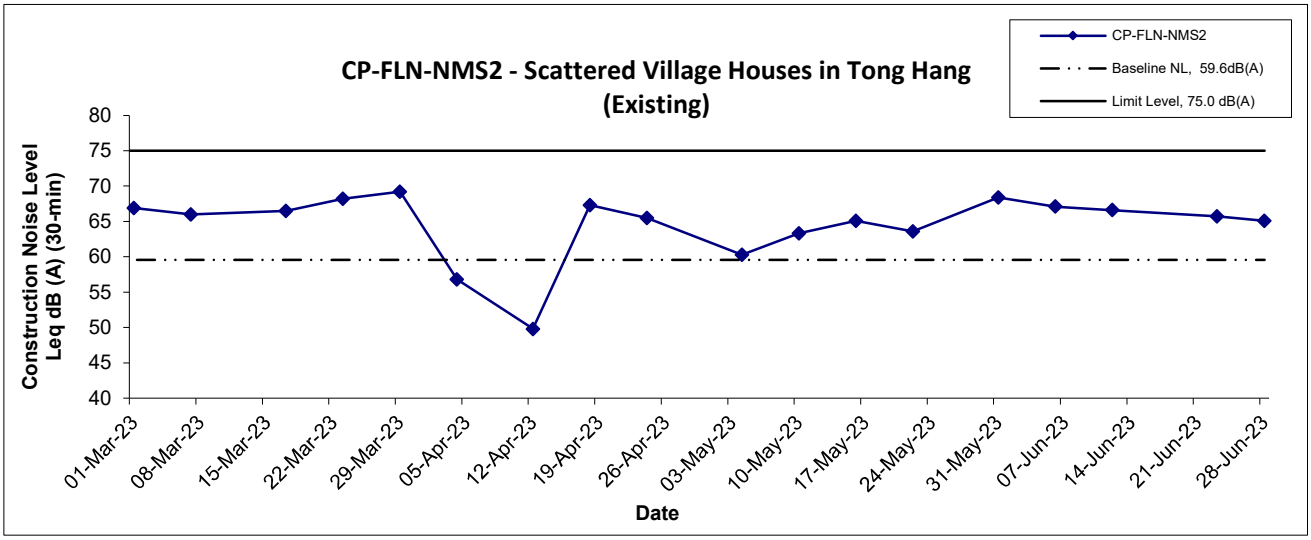
Appendix F - Noise Monitoring Results

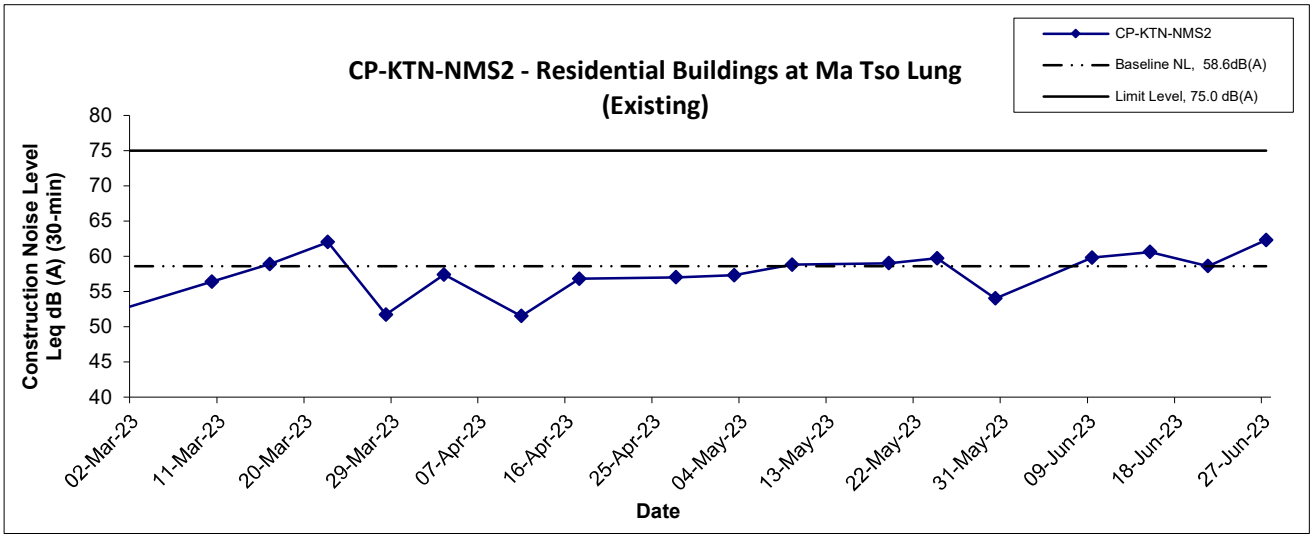
Location CP-KTN-NMS5 - N/A							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
9-Jun-23	Cloudy	13:00	55.4	56.5	54.3	55.9	57.2
		13:05	55.0	55.6	54.5		
		13:10	55.3	55.8	54.8		
		13:15	55.3	55.6	54.7		
		13:20	55.4	56.0	54.8		
		13:25	58.2	59.2	55.8		
15-Jun-23	Cloudy	08:30	58.4	60.3	53.6	58.9	
		08:35	59.5	60.8	54.0		
		08:40	57.1	59.2	53.1		
		08:45	58.8	60.2	54.3		
		08:50	60.0	63.6	54.8		
		08:55	59.0	62.7	54.7		
21-Jun-23	Sunny	16:40	57.9	58.8	55.9	63.9	
		16:45	66.0	71.1	57.0		
		16:50	59.6	61.5	57.6		
		16:55	64.0	67.6	60.6		
		17:00	67.0	67.9	66.2		
		17:05	62.5	63.3	61.1		
27-Jun-23	Sunny	16:40	53.8	54.9	52.6	57.9	
		16:45	53.7	54.0	53.4		
		16:50	53.8	56.9	55.9		
		16:55	61.8	62.7	60.3		
		17:00	58.8	61.2	60.6		
		17:05	58.6	61.2	54.3		

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}
9-Jun-23	Cloudy	11:30	61.4	63.8	56.2	63.0	55.1
		11:35	63.5	65.1	56.8		
		11:40	62.9	64.5	56.5		
		11:45	63.8	64.3	56.2		
		11:50	64.6	66.3	56.9		
		11:55	60.5	62.9	56.0		
15-Jun-23	Cloudy	10:15	62.5	63.3	58.0	61.1	
		10:20	60.8	63.9	55.5		
		10:25	60.3	63.5	54.2		
		10:30	61.5	62.6	59.6		
		10:35	60.1	60.8	59.0		
		10:40	60.8	60.9	58.8		
21-Jun-23	Sunny	13:00	61.4	62.6	54.2	60.9	
		13:05	61.0	63.1	57.4		
		13:10	62.4	63.8	54.5		
		13:15	57.3	58.6	54.8		
		13:20	60.3	61.9	56.7		
		13:25	61.5	62.3	56.7		
27-Jun-23	Sunny	13:00	59.9	60.4	56.7	60.0	
		13:05	59.5	59.7	56.7		
		13:10	60.6	62.2	56.5		
		13:15	61.5	63.5	57.7		
		13:20	58.8	59.7	57.3		
		13:25	58.9	61.6	53.4		

Noise Levels

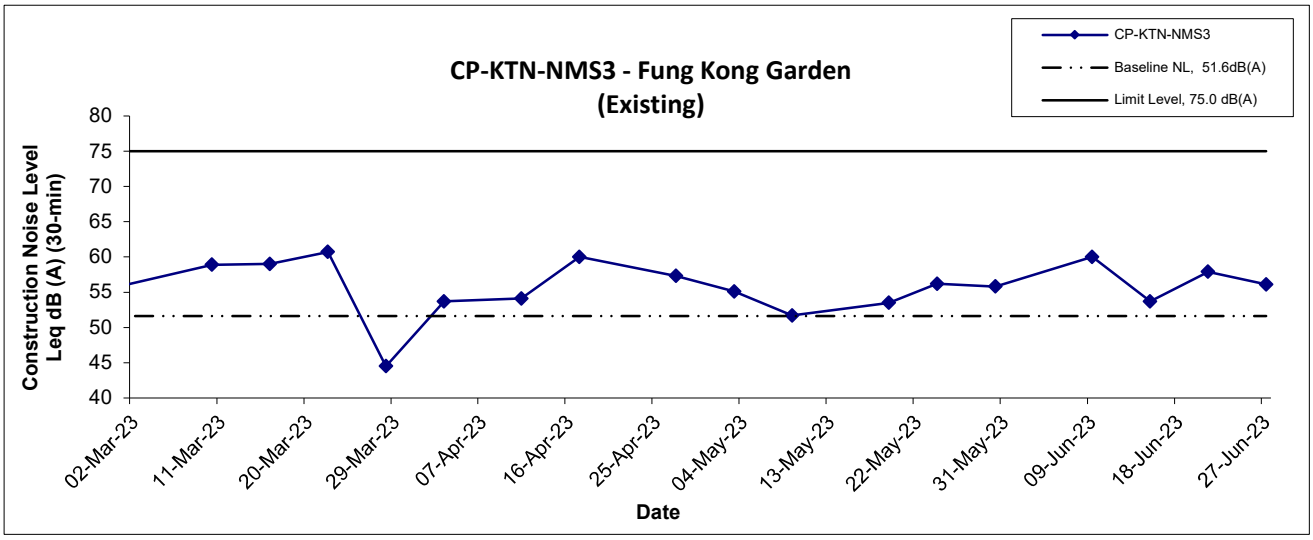


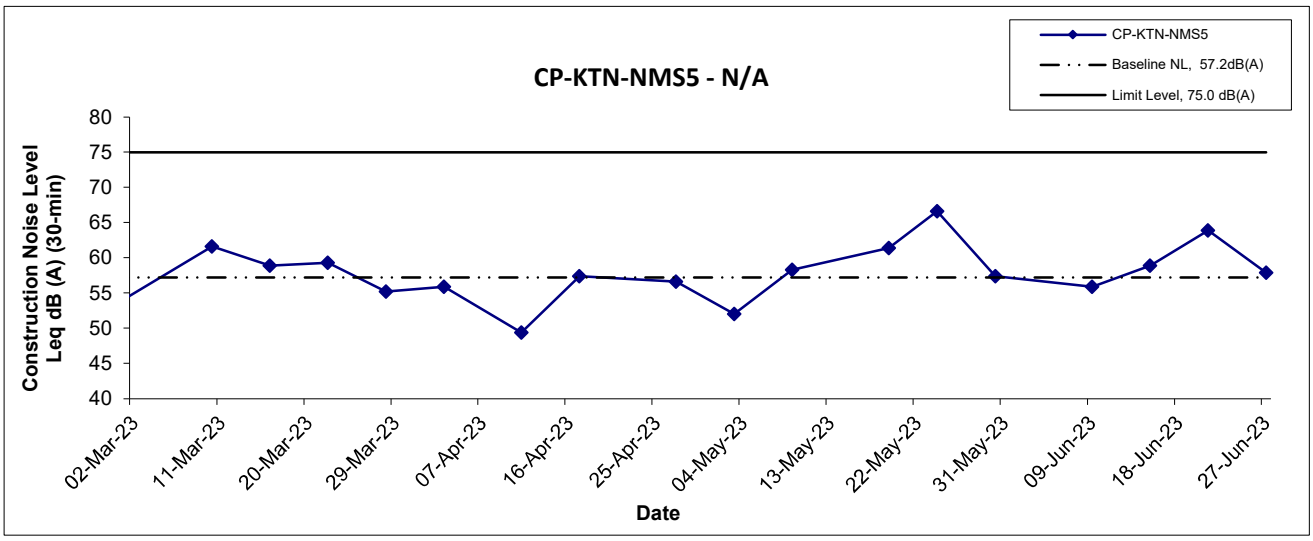


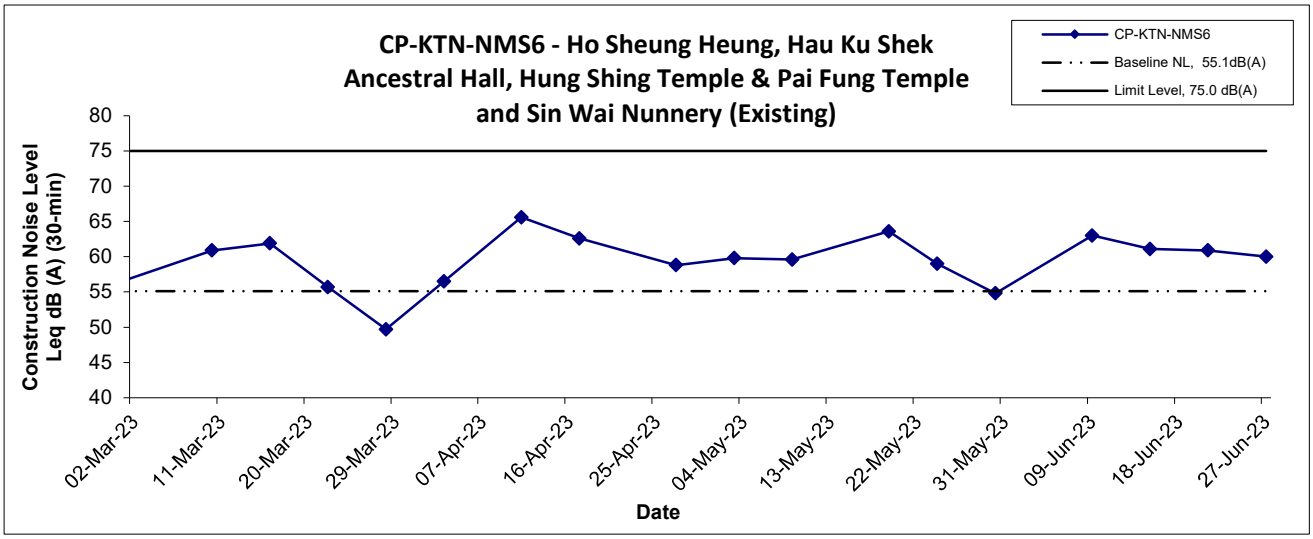


Title: Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Construction Noise Monitoring Results	Scale: N.T.S Date: Jun 23	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: Jun 23	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
3-Jun-23	Sunny	11:54	Middle	0.2	31.2 31.2	31.2	7.3 7.3	7.3	0.2 0.2	0.2	86.0 85.7	85.9	6.4 6.3	6.4	6.0 6.0	6.0	8 8	8.0	11 12	11.5
5-Jun-23	Sunny	12:24	Middle	0.2	32.1 32.1	32.1	7.2 7.3	7.3	0.1 0.1	0.1	113.7 114.1	113.9	8.3 8.3	8.3	8.6 8.5	8.6	15 15	15.0	10 9	9.5
7-Jun-23	Cloudy	16:11	Middle	0.2	31.7 31.7	31.7	7.3 7.3	7.3	0.1 0.1	0.1	111.8 111.9	111.9	8.2 8.2	8.2	10.4 10.4	10.4	26 28	27.0	3 3	3.0
9-Jun-23	Cloudy	14:01	Middle	0.2	28.4 28.3	28.4	7.7 7.7	7.7	0.1 0.1	0.1	67.1 67.0	67.1	5.2 5.2	5.2	18.1 18.1	18.1	24 25	24.5	20 21	20.5
12-Jun-23	Sunny	13:53	Middle	0.2	31.6 31.6	31.6	8.2 8.2	8.2	0.1 0.1	0.1	82.1 81.9	82.0	6.0 6.0	6.0	8.7 8.7	8.7	9 9	9.0	12 13	12.5
14-Jun-23	Cloudy	11:46	Middle	0.2	29.3 29.3	29.3	7.5 7.5	7.5	0.1 0.1	0.1	83.0 83.0	83.0	6.4 6.4	6.4	8.3 8.2	8.3	9 8	8.5	12 12	12.0
16-Jun-23	Rainy	13:05	Middle	0.2	27.4 27.4	27.4	7.2 7.2	7.2	0.1 0.1	0.1	94.0 94.1	94.1	7.4 7.4	7.4	11.9 12.0	12.0	8 9	8.5	11 12	11.5
19-Jun-23	Sunny	14:14	Middle	0.2	31.0 31.0	31.0	8.6 8.6	8.6	0.2 0.2	0.2	77.9 77.8	77.9	5.8 5.8	5.8	31.8 31.6	31.7	19 18	18.5	20 18	19.0
21-Jun-23	Sunny	09:10	Middle	0.2	31.0 31.0	31.0	8.6 8.6	8.6	0.2 0.2	0.2	83.6 83.2	83.4	6.2 6.2	6.2	7.3 7.3	7.3	7 8	7.5	15 15	15.0
23-Jun-23	Cloudy	13:11	Middle	0.2	29.2 29.2	29.2	6.7 6.7	6.7	0.1 0.1	0.1	80.9 80.5	80.7	6.2 6.2	6.2	5.4 5.4	5.4	8 9	8.5	11 11	11.0
26-Jun-23	Cloudy	10:13	Middle	0.1	26.9 26.9	26.9	8.8 8.8	8.8	0.1 0.1	0.1	74.8 74.8	74.8	6.0 6.0	6.0	8.7 8.5	8.6	7 7	7.0	12 12	12.0
28-Jun-23	Cloudy	13:39	Middle	0.2	28.0 28.0	28.0	7.8 7.8	7.8	0.1 0.1	0.1	85.3 84.1	84.7	6.7 6.6	6.7	8.0 8.0	8.0	7 8	7.5	12 12	12.0
30-Jun-23	Cloudy	12:04	Middle	0.2	29.3 29.3	29.3	7.7 7.7	7.7	0.1 0.1	0.1	75.3 75.0	75.2	5.8 5.7	5.8	5.5 5.5	5.5	5 6	5.5	11 11	11.0

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: 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
3-Jun-23	Sunny	11:33	Middle	0.6	32.1 32.1	32.1	7.2 7.2	7.2	0.2 0.2	0.2	97.4 97.4	97.4	7.1 7.1	7.1	16.3 16.2	16.3	12 14	13.0	8 10	9.0
5-Jun-23	Sunny	12:36	Middle	0.5	31.9 31.9	31.9	6.8 6.8	6.8	0.3 0.3	0.3	86.7 86.5	86.6	6.3 6.3	6.3	12.9 12.8	12.9	20 17	18.5	5 5	5.0
7-Jun-23	Cloudy	16:24	Middle	0.9	32.0 32.0	32.0	6.9 6.9	6.9	0.3 0.3	0.3	93.2 93.0	93.1	6.8 6.8	6.8	19.0 18.9	19.0	50 52	51.0	3 3	3.0
9-Jun-23	Cloudy	14:17	Middle	0.8	29.5 29.5	29.5	7.0 7.0	7.0	0.2 0.2	0.2	87.1 87.2	87.2	6.6 6.6	6.6	21.7 21.6	21.7	21 24	22.5	8 8	8.0
12-Jun-23	Sunny	13:35	Middle	0.3	35.0 35.0	35.0	8.2 8.2	8.2	0.1 0.1	0.1	116.4 117.0	116.7	8.1 8.1	8.1	18.7 18.3	18.5	26 21	23.5	10 11	10.5
14-Jun-23	Cloudy	12:06	Middle	0.2	29.5 29.5	29.5	7.3 7.3	7.3	0.1 0.1	0.1	91.0 90.7	90.9	6.9 6.9	6.9	20.4 20.6	20.5	43 37	40.0	13 14	13.5
16-Jun-23	Rainy	13:24	Middle	0.6	27.1 27.1	27.1	7.3 7.3	7.3	0.1 0.1	0.1	85.0 84.9	85.0	6.8 6.8	6.8	26.8 26.6	26.7	26 22	24.0	13 13	13.0
19-Jun-23	Sunny	14:39	Middle	0.3	30.7 30.7	30.7	7.3 7.3	7.3	0.1 0.1	0.1	89.0 88.8	88.9	6.7 6.6	6.7	20.3 20.4	20.4	14 14	14.0	12 12	12.0
21-Jun-23	Sunny	09:26	Middle	0.3	30.0 30.0	30.0	7.1 7.1	7.1	0.1 0.1	0.1	90.3 90.5	90.4	6.8 6.8	6.8	16.3 16.3	16.3	10 8	9.0	11 11	11.0
23-Jun-23	Cloudy	13:26	Middle	0.8	29.7 29.7	29.7	6.7 6.7	6.7	0.2 0.3	0.3	88.5 89.1	88.8	6.7 6.8	6.8	17.8 17.8	17.8	10 8	9.0	6 6	6.0
26-Jun-23	Cloudy	10:28	Middle	0.3	29.1 29.1	29.1	8.3 8.3	8.3	0.1 0.1	0.1	93.8 93.7	93.8	7.2 7.2	7.2	24.5 24.6	24.6	17 16	16.5	13 14	13.5
28-Jun-23	Cloudy	13:49	Middle	0.4	29.6 29.6	29.6	8.0 8.0	8.0	0.1 0.1	0.1	107.5 107.6	107.6	8.2 8.2	8.2	17.5 17.3	17.4	20 22	21.0	13 12	12.5
30-Jun-23	Cloudy	12:14	Middle	0.7	31.8 31.8	31.8	7.5 7.5	7.5	0.1 0.1	0.1	114.0 114.4	114.2	8.4 8.4	8.4	18.1 18.2	18.2	15 14	14.5	12 13	12.5

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
3-Jun-23	Sunny	10:12	Middle	0.2	30.4 30.4	30.4	6.7 6.7	6.7	0.1 0.1	0.1	107.6 107.6	107.6	8.1 8.1	8.1	7.1 7.2	7.2	8 9	8.5
5-Jun-23	Sunny	14:00	Middle	0.2	31.6 31.6	31.6	7.2 7.2	7.2	0.1 0.1	0.1	104.9 104.9	104.9	7.7 7.7	7.7	8.9 8.8	8.9	12 11	11.5
7-Jun-23	Cloudy	17:32	Middle	0.2	32.7 32.7	32.7	8.2 8.2	8.2	0.2 0.2	0.2	126.4 126.6	126.5	9.1 9.1	9.1	18.9 18.9	18.9	25 26	25.5
9-Jun-23	Cloudy	15:38	Middle	0.2	29.8 29.8	29.8	7.3 7.3	7.3	0.1 0.1	0.1	102.4 102.4	102.4	7.8 7.8	7.8	8.7 8.7	8.7	7 8	7.5
12-Jun-23	Sunny	14:46	Middle	0.2	32.2 32.2	32.2	8.1 8.1	8.1	0.1 0.1	0.1	99.5 99.5	99.5	7.2 7.2	7.2	14.6 14.7	14.7	16 15	15.5
14-Jun-23	Cloudy	13:00	Middle	0.2	28.5 28.5	28.5	7.1 7.1	7.1	0.1 0.1	0.1	87.9 87.8	87.9	6.8 6.8	6.8	10.4 10.4	10.4	16 16	16.0
16-Jun-23	Rainy	11:09	Middle	0.3	26.8 26.8	26.8	7.2 7.2	7.2	0.1 0.1	0.1	84.4 84.4	84.4	6.8 6.8	6.8	33.0 32.1	32.6	37 45	41.0
19-Jun-23	Sunny	16:22	Middle	0.2	29.4 29.4	29.4	7.1 7.1	7.1	0.1 0.1	0.1	102.4 102.5	102.5	7.8 7.8	7.8	10.0 10.1	10.1	7 8	7.5
21-Jun-23	Sunny	10:27	Middle	0.2	29.0 29.0	29.0	7.0 7.0	7.0	0.1 0.1	0.1	101.4 101.7	101.6	7.8 7.8	7.8	10.1 10.1	10.1	10 12	11.0
23-Jun-23	Cloudy	14:23	Middle	0.1	28.7 28.7	28.7	6.9 6.9	6.9	0.1 0.1	0.1	105.8 106.1	106.0	8.2 8.2	8.2	9.9 9.8	9.9	16 13	14.5
26-Jun-23	Cloudy	12:00	Middle	0.2	32.0 32.1	32.1	8.1 8.1	8.1	0.1 0.1	0.1	108.3 108.4	108.4	7.9 7.9	7.9	13.0 13.1	13.1	9 9	9.0
28-Jun-23	Cloudy	12:43	Middle	0.2	28.1 28.1	28.1	7.7 7.7	7.7	0.1 0.1	0.1	91.9 91.7	91.8	7.2 7.2	7.2	14.5 14.6	14.6	25 24	24.5
30-Jun-23	Cloudy	14:17	Middle	0.2	30.5 30.5	30.5	7.2 7.2	7.2	0.1 0.1	0.1	117.3 117.5	117.4	8.8 8.8	8.8	6.6 6.4	6.5	7 7	7.0

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: 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
3-Jun-23	Sunny	11:10	Middle	0.4	31.6 31.6	31.6	6.9 6.9	6.9	0.1 0.1	0.1	86.3 86.2	86.3	6.3 6.3	6.3	6.5 6.6	6.6	6 7	6.5
5-Jun-23	Sunny	13:23	Middle	0.4	30.8 30.8	30.8	7.1 7.1	7.1	0.3 0.3	0.3	81.3 81.1	81.2	6.1 6.0	6.1	9.7 9.6	9.7	10 9	9.5
7-Jun-23	Cloudy	17:04	Middle	0.6	30.9 30.9	30.9	7.1 7.1	7.1	0.1 0.1	0.1	84.8 84.6	84.7	6.3 6.3	6.3	20.1 20.0	20.1	26 26	26.0
9-Jun-23	Cloudy	14:58	Middle	0.5	29.7 29.7	29.7	7.2 7.2	7.2	0.1 0.1	0.1	89.9 90.0	90.0	6.8 6.8	6.8	8.8 8.9	8.9	7 8	7.5
12-Jun-23	Sunny	12:54	Middle	0.1	35.6 35.6	35.6	8.4 8.4	8.4	0.1 0.1	0.1	125.4 125.4	125.4	8.6 8.6	8.6	15.8 16.1	16.0	16 14	15.0
14-Jun-23	Cloudy	12:35	Middle	0.3	29.4 29.4	29.4	7.4 7.3	7.4	0.1 0.1	0.1	94.9 94.6	94.8	7.3 7.2	7.3	11.2 11.2	11.2	17 15	16.0
16-Jun-23	Rainy	15:45	Middle	0.2	27.3 27.3	27.3	7.3 7.3	7.3	0.1 0.1	0.1	96.4 96.4	96.4	7.6 7.6	7.6	21.1 21.2	21.2	48 46	47.0
19-Jun-23	Sunny	15:53	Middle	0.1	31.4 31.4	31.4	7.5 7.5	7.5	0.1 0.1	0.1	118.3 118.6	118.5	8.7 8.7	8.7	9.3 9.2	9.3	8 7	7.5
21-Jun-23	Sunny	10:04	Middle	0.1	30.9 30.9	30.9	7.3 7.3	7.3	0.1 0.1	0.1	119.3 119.4	119.4	8.9 8.9	8.9	10.5 10.4	10.5	13 12	12.5
23-Jun-23	Cloudy	14:03	Middle	0.1	30.1 30.0	30.1	7.1 7.1	7.1	0.1 0.1	0.1	124.7 125.5	125.1	9.4 9.5	9.5	11.1 11.2	11.2	11 9	10.0
26-Jun-23	Cloudy	10:56	Middle	0.1	30.3 30.3	30.3	8.4 8.4	8.4	0.1 0.1	0.1	126.9 126.9	126.9	9.5 9.5	9.5	12.3 12.9	12.6	9 9	9.0
28-Jun-23	Cloudy	11:51	Middle	0.1	29.4 29.4	29.4	8.5 8.5	8.5	0.1 0.1	0.1	116.5 116.7	116.6	8.9 8.9	8.9	16.8 16.8	16.8	26 30	28.0
30-Jun-23	Cloudy	13:18	Middle	0.3	30.2 30.2	30.2	7.4 7.4	7.4	0.1 0.1	0.1	115.3 115.5	115.4	8.7 8.7	8.7	7.3 7.3	7.3	7 7	7.0

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

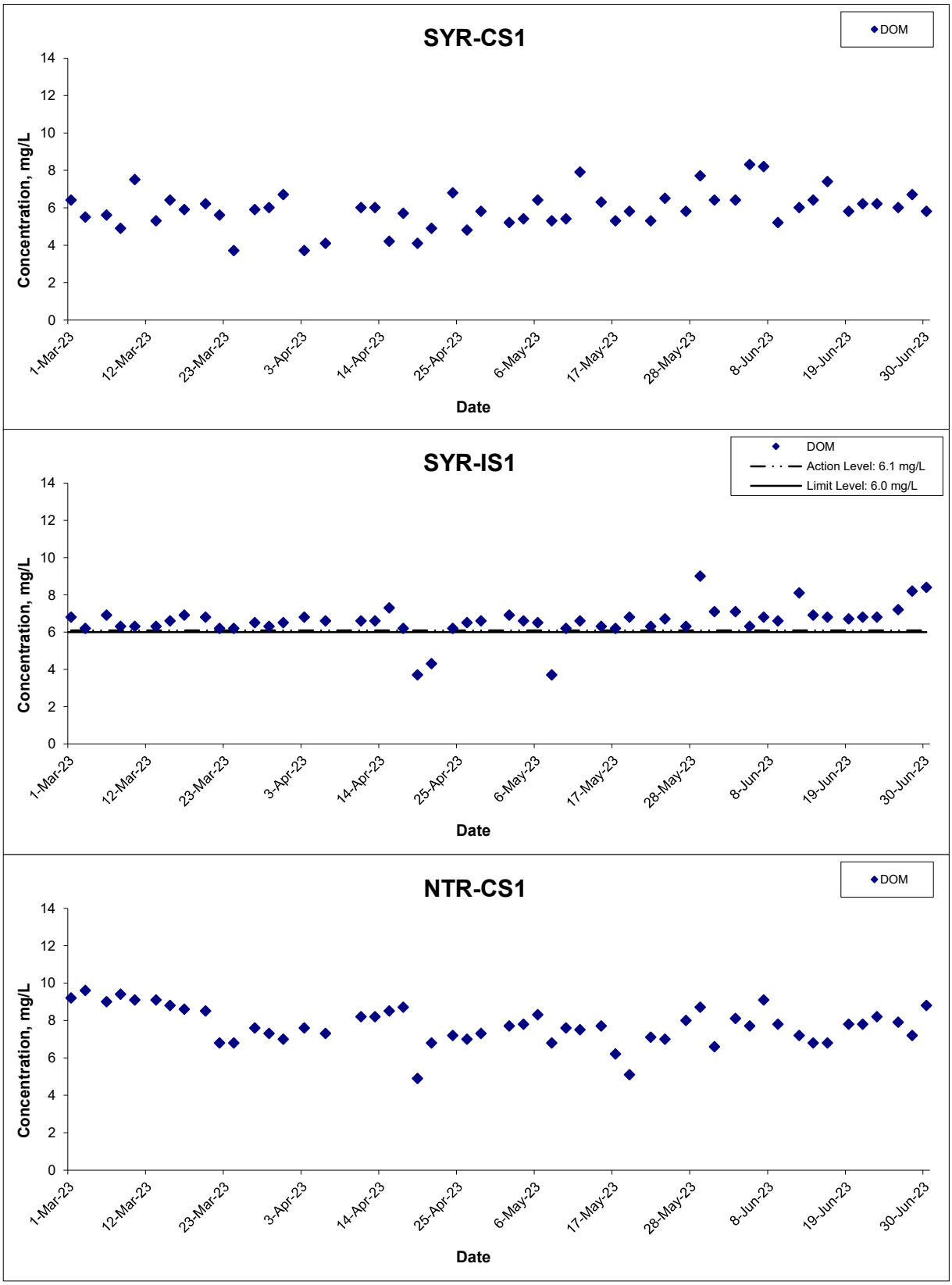
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jun-23	Sunny	10:57	Middle	0.2	30.2 30.1	30.2	7.0 7.0	7.0	0.1 0.1	0.1	98.3 98.1	98.2	7.4 7.4	7.4	7.0 7.1	7.1	10 9	9.5
5-Jun-23	Sunny	13:08	Middle	0.2	31.7 31.7	31.7	7.3 7.3	7.3	0.1 0.1	0.1	99.3 99.0	99.2	7.3 7.3	7.3	7.8 7.8	7.8	12 11	11.5
7-Jun-23	Cloudy	16:49	Middle	0.2	30.9 30.9	30.9	7.2 7.2	7.2	0.1 0.1	0.1	103.3 103.0	103.2	7.7 7.7	7.7	15.9 15.9	15.9	20 21	20.5
9-Jun-23	Cloudy	14:46	Middle	0.2	28.9 28.9	28.9	7.1 7.1	7.1	0.1 0.1	0.1	102.4 102.2	102.3	7.9 7.9	7.9	7.6 7.7	7.7	6 6	6.0
12-Jun-23	Sunny	13:05	Middle	0.2	30.7 30.7	30.7	8.0 8.0	8.0	0.1 0.1	0.1	95.4 96.1	95.8	7.1 7.2	7.2	10.7 10.5	10.6	15 16	15.5
14-Jun-23	Cloudy	12:21	Middle	0.2	27.8 27.8	27.8	7.3 7.3	7.3	0.1 0.1	0.1	94.4 94.0	94.2	7.4 7.4	7.4	6.9 6.9	6.9	3 4	3.5
16-Jun-23	Rainy	15:34	Middle	0.3	27.5 27.5	27.5	7.4 7.4	7.4	0.1 0.1	0.1	95.9 95.9	95.9	7.6 7.6	7.6	19.3 19.6	19.5	19 22	20.5
19-Jun-23	Sunny	15:37	Middle	0.2	29.5 29.5	29.5	7.3 7.3	7.3	0.2 0.2	0.2	95.2 94.2	94.7	7.3 7.2	7.3	11.6 11.8	11.7	8 8	8.0
21-Jun-23	Sunny	09:49	Middle	0.3	28.8 28.8	28.8	7.1 7.1	7.1	0.1 0.1	0.1	95.8 95.5	95.7	7.4 7.4	7.4	8.2 8.7	8.5	8 9	8.5
23-Jun-23	Cloudy	13:54	Middle	0.1	29.3 29.3	29.3	8.5 8.5	8.5	0.1 0.1	0.1	95.9 96.1	96.0	7.3 7.4	7.4	8.3 8.3	8.3	8 8	8.0
26-Jun-23	Cloudy	11:09	Middle	0.2	27.4 27.4	27.4	8.2 8.2	8.2	0.1 0.1	0.1	96.7 96.8	96.8	7.7 7.7	7.7	11.4 11.3	11.4	7 7	7.0
28-Jun-23	Cloudy	12:02	Middle	0.2	27.3 27.3	27.3	8.4 8.4	8.4	0.1 0.1	0.1	94.5 94.4	94.5	7.5 7.5	7.5	11.2 11.1	11.2	7 7	7.0
30-Jun-23	Cloudy	13:05	Middle	0.2	27.6 27.6	27.6	7.6 7.6	7.6	0.1 0.1	0.1	93.2 92.8	93.0	7.3 7.3	7.3	6.4 6.4	6.4	7 6	6.5

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: MWR-IS3

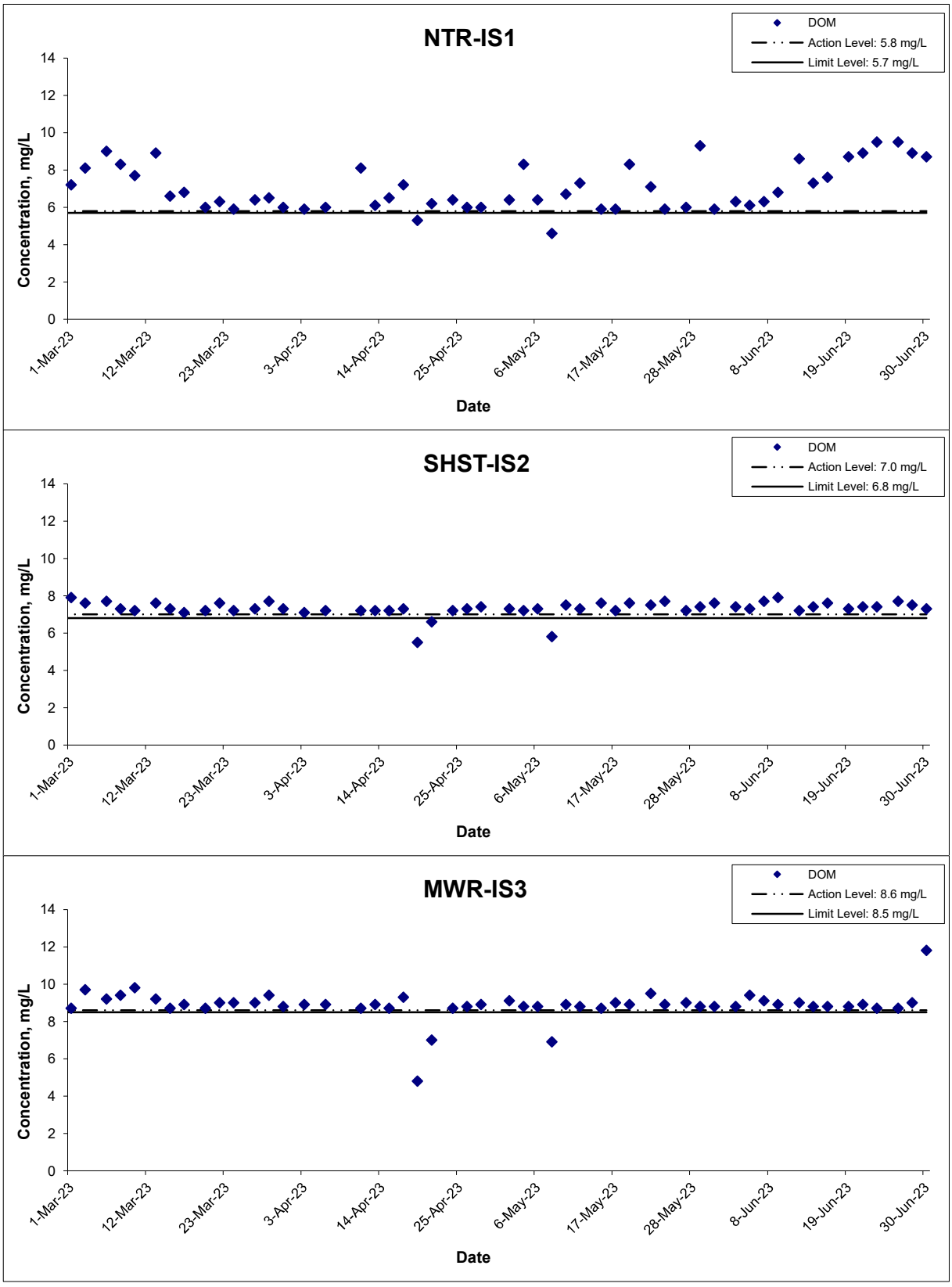
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jun-23	Sunny	10:30	Middle	0.2	31.1 31.1	31.1	6.9 6.9	6.9	0.1 0.1	0.1	117.6 119.1	118.4	8.7 8.8	8.8	4.7 4.6	4.7	9 8	8.5
5-Jun-23	Sunny	14:19	Middle	0.2	32.4 32.4	32.4	8.0 8.0	8.0	0.7 0.7	0.7	130.5 130.6	130.6	9.4 9.4	9.4	8.4 8.4	8.4	10 12	11.0
7-Jun-23	Cloudy	17:50	Middle	0.3	31.6 31.6	31.6	7.1 7.1	7.1	0.1 0.1	0.1	124.4 124.0	124.2	9.1 9.1	9.1	10.9 10.7	10.8	15 15	15.0
9-Jun-23	Cloudy	15:49	Middle	0.3	29.6 29.6	29.6	7.1 7.1	7.1	0.1 0.1	0.1	115.8 116.8	116.3	8.8 8.9	8.9	9.0 9.1	9.1	7 8	7.5
12-Jun-23	Sunny	14:30	Middle	0.2	32.2 32.2	32.2	8.4 8.4	8.4	0.1 0.1	0.1	122.5 123.1	122.8	8.9 9.0	9.0	10.5 10.4	10.5	15 17	16.0
14-Jun-23	Cloudy	13:09	Middle	0.2	28.6 28.6	28.6	7.2 7.2	7.2	0.1 0.1	0.1	112.8 113.2	113.0	8.7 8.8	8.8	7.1 7.1	7.1	8 9	8.5
16-Jun-23	Rainy	11:24	Middle	0.3	27.2 27.2	27.2	7.8 7.7	7.8	0.1 0.1	0.1	110.9 111.2	111.1	8.8 8.8	8.8	34.3 33.8	34.1	30 33	31.5
19-Jun-23	Sunny	16:36	Middle	0.2	29.3 29.3	29.3	7.2 7.1	7.2	0.1 0.1	0.1	115.2 115.1	115.2	8.8 8.8	8.8	9.3 9.2	9.3	8 9	8.5
21-Jun-23	Sunny	10:39	Middle	0.2	29.2 29.1	29.2	7.0 7.0	7.0	0.1 0.1	0.1	115.1 115.4	115.3	8.8 8.9	8.9	8.6 8.6	8.6	4 3	3.5
23-Jun-23	Cloudy	14:31	Middle	0.1	28.8 28.9	28.9	6.8 6.8	6.8	0.1 0.1	0.1	112.7 112.5	112.6	8.7 8.7	8.7	10.2 10.2	10.2	13 14	13.5
26-Jun-23	Cloudy	11:42	Middle	0.2	29.5 29.5	29.5	8.5 8.5	8.5	0.1 0.1	0.1	114.3 114.0	114.2	8.7 8.7	8.7	10.0 10.2	10.1	10 11	10.5
28-Jun-23	Cloudy	12:39	Middle	0.1	28.4 28.4	28.4	7.9 7.9	7.9	0.1 0.1	0.1	115.2 115.6	115.4	9.0 9.0	9.0	16.3 16.7	16.5	16 20	18.0
30-Jun-23	Cloudy	14:31	Middle	0.3	31.7 31.7	31.7	7.5 7.5	7.5	0.1 0.1	0.1	160.0 160.3	160.2	11.8 11.8	11.8	4.9 4.8	4.9	9 8	8.5

Dissolved Oxygen (Middle)



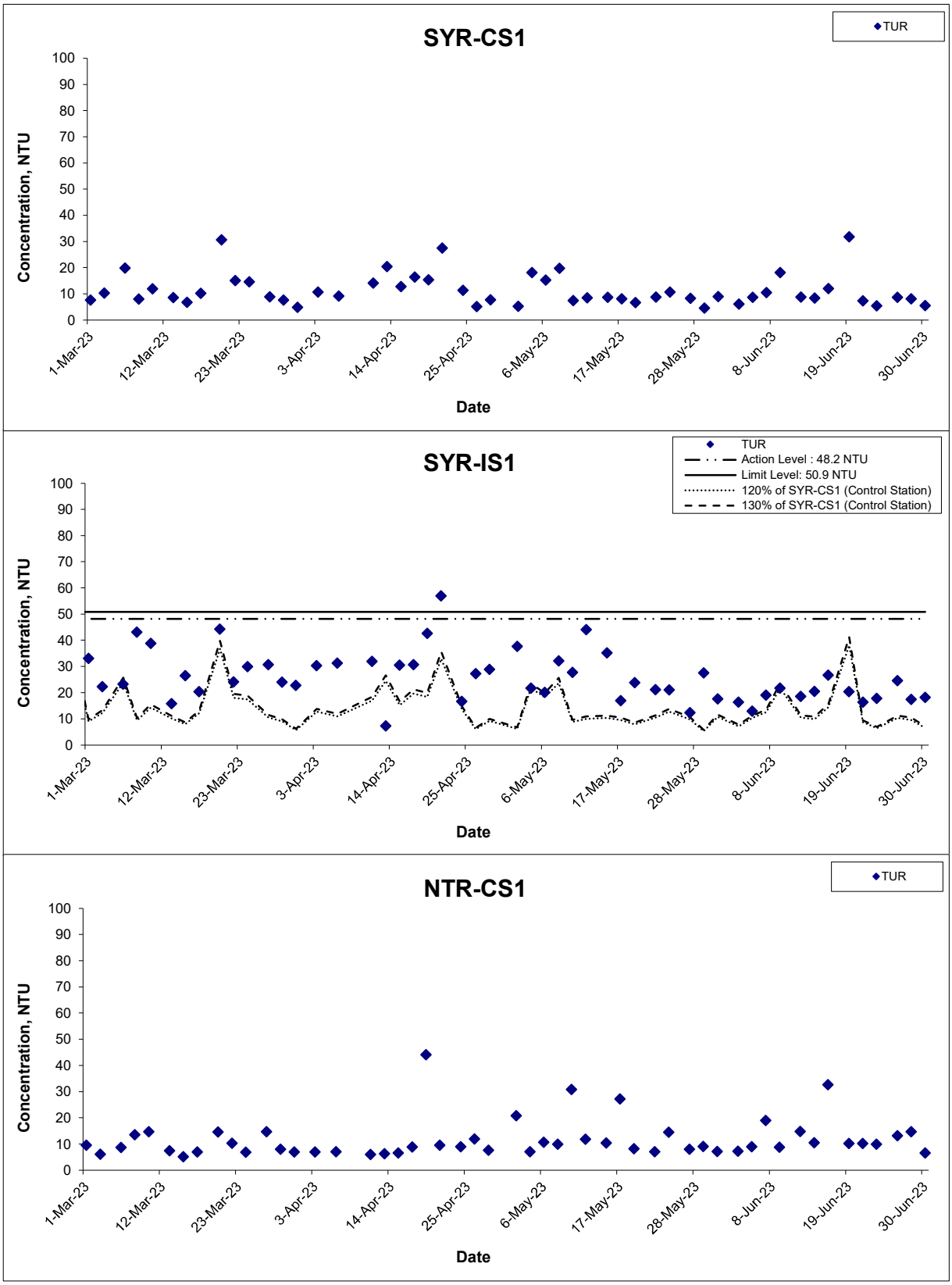
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S	Project No.: WMA20002	WELLAB 匯力 consulting . testing . research
		Date: Jun 23	Appendix: G	

Dissolved Oxygen (Middle)



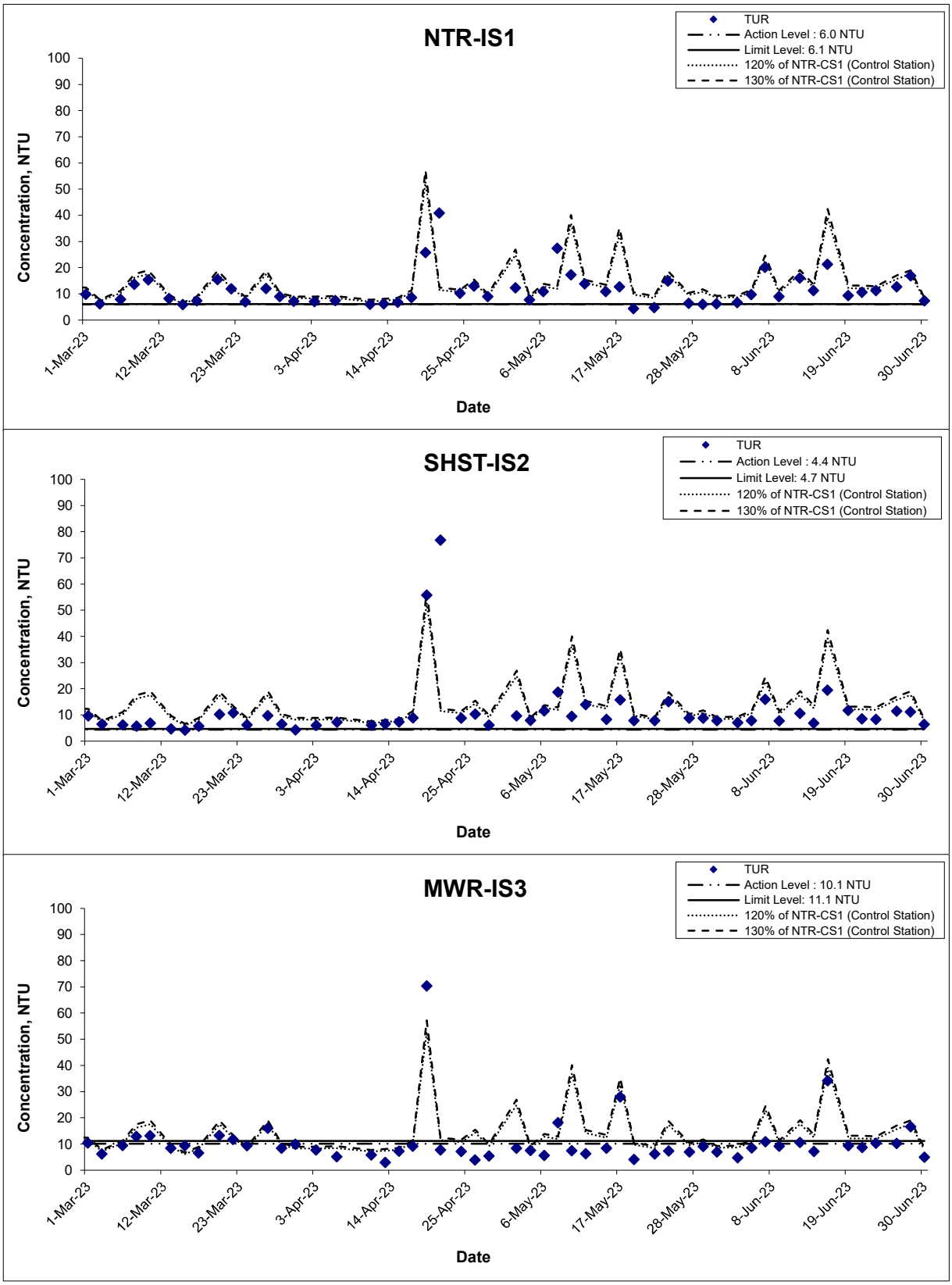
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S Date: Jun 23	Project No.: WMA20002 Appendix: G	WELLAB 匯力 consulting . testing . research

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: Jun 23	Appendix: G	

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
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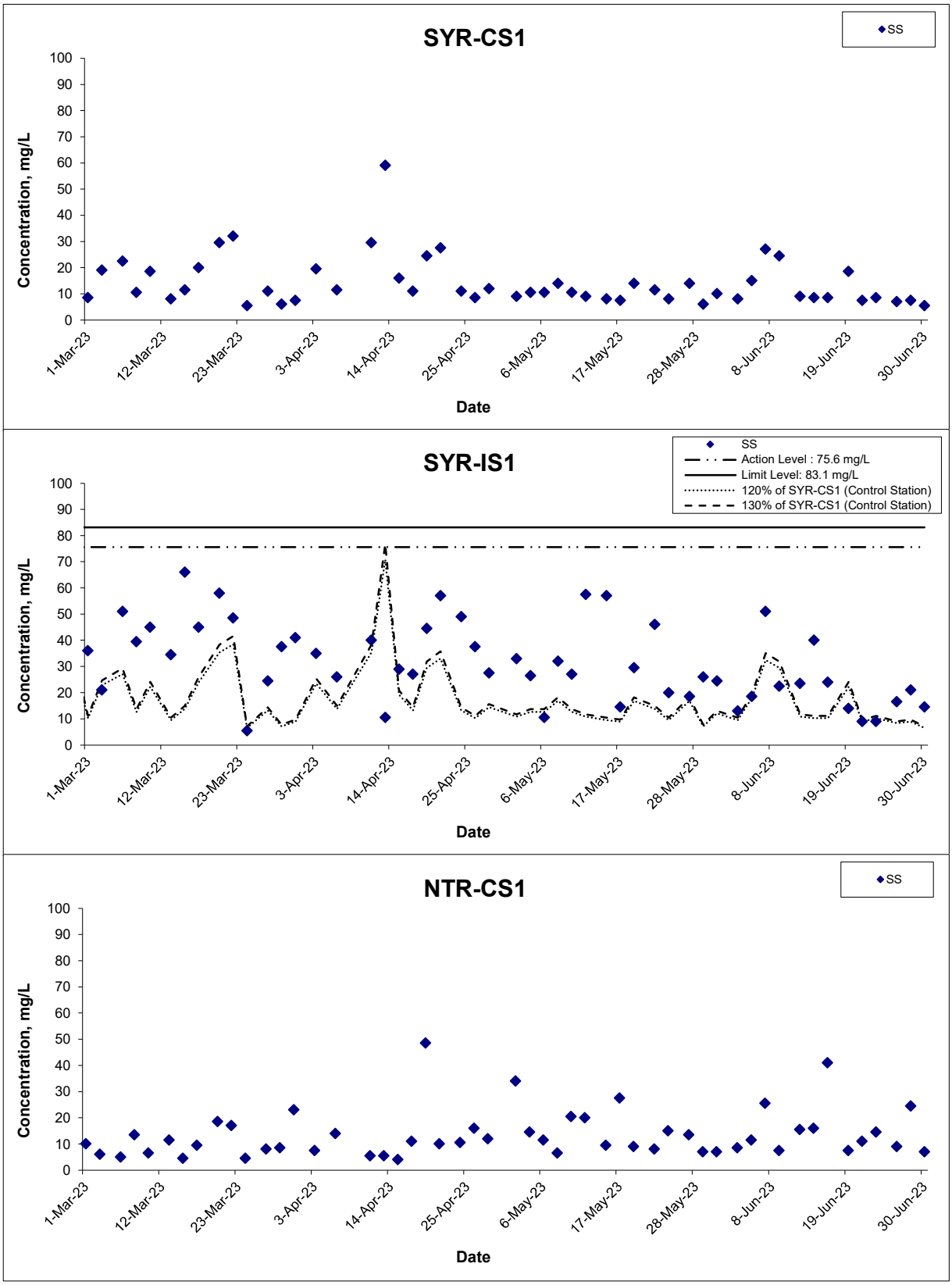
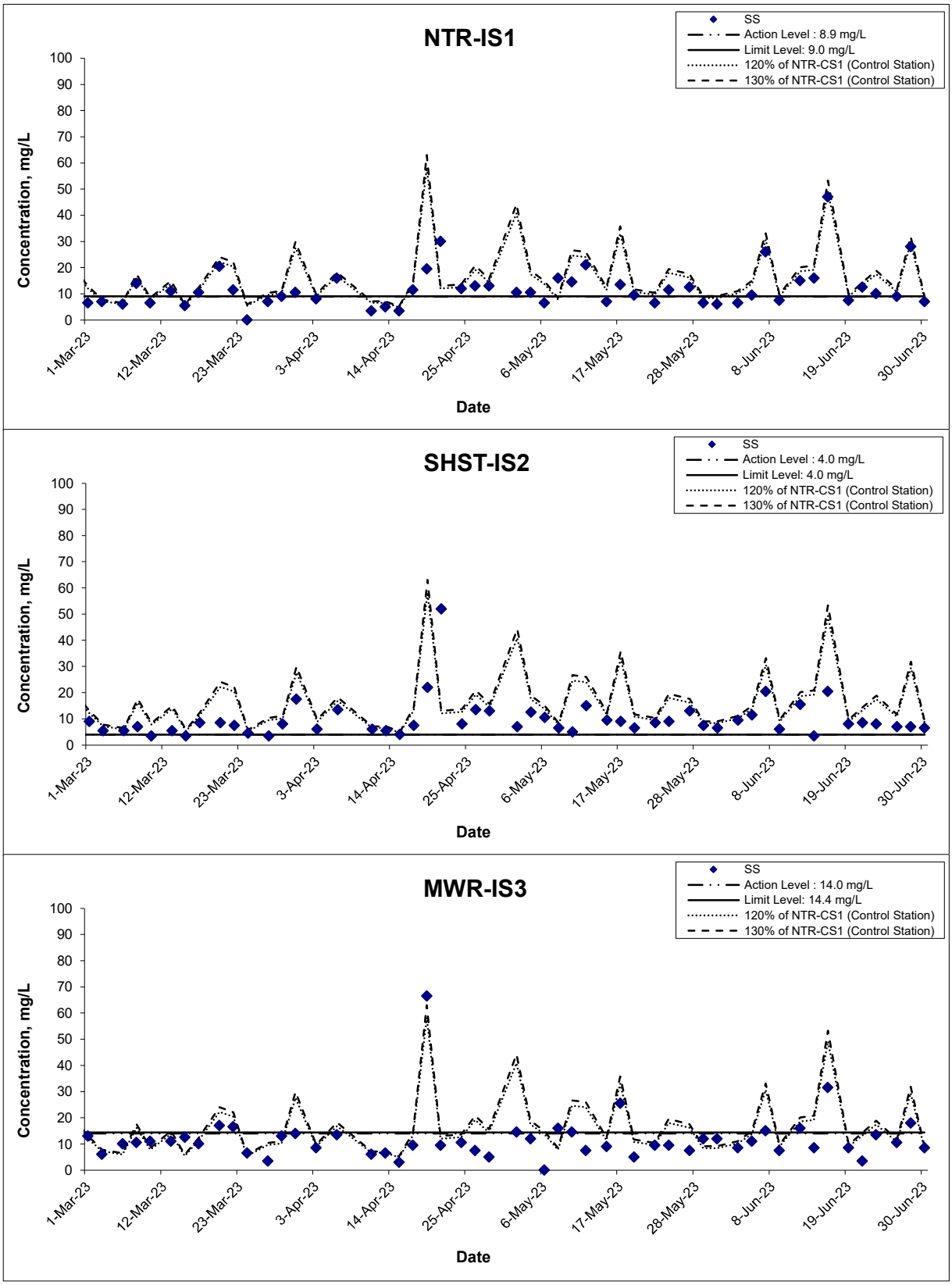
Suspended Solids (Depth-averaged)



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: Jun 23	Appendix: G	

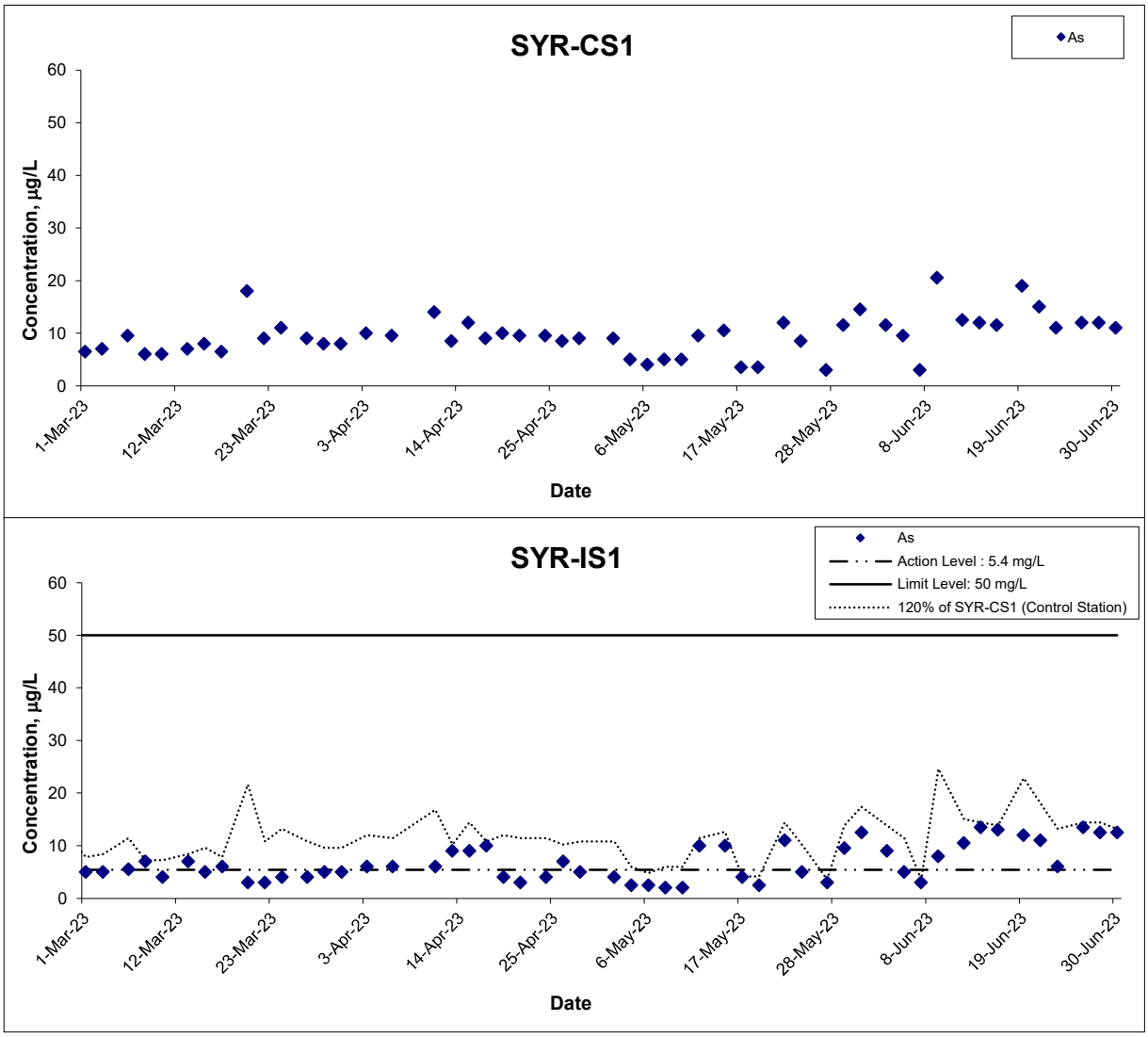
Suspended Solids (Depth-averaged)



Remarks: The graphical point at zero concentration is presented as below the reporting limit.

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: Jun 23	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: Jun 23	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 : 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.:	38274
Date of Issue:	2023-06-07
Date Received:	2023-06-03
Date Tested:	2023-06-03
Date Completed:	2023-06-07
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38274
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. : WMA20002/230603
Sampling Date : 2023-06-03

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.	38274-2	38274-3	38274-5	38274-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	12	14
Arsenic (µg/L)	11	12	8	10

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

WELLAB 匯力
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Website : 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.:	38274A
Date of Issue:	2023-06-07
Date Received:	2023-06-03
Date Tested:	2023-06-03
Date Completed:	2023-06-07
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38274A
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. : WMA20002/230603
Sampling Date : 2023-06-03

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.	38274-8	38274-9	38274-11	38274-12
Total Suspended Solids dried at 103-105°C (mg/L)	8	9	6	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38274-14	38274-15	38274-17	38274-18
Total Suspended Solids dried at 103-105°C (mg/L)	10	9	9	8

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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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.:	38309
Date of Issue:	2023-06-07
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-07
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38309
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. : WMA20002/230605
Sampling Date : 2023-06-05

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.	38309-2	38309-3	38309-5	38309-6
Total Suspended Solids dried at 103-105°C (mg/L)	15	15	20	17
Arsenic (µg/L)	10	9	5	5

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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General Manager

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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.:	38309A
Date of Issue:	2023-06-07
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-07
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38309A
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. : WMA20002/230605
Sampling Date : 2023-06-05

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.	38309-8	38309-9	38309-11	38309-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	11	10	9

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38309-14	38309-15	38309-17	38309-18
Total Suspended Solids dried at 103-105°C (mg/L)	12	11	10	12

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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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.:	38311
Date of Issue:	2023-06-13
Date Received:	2023-06-07
Date Tested:	2023-06-07
Date Completed:	2023-06-13
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38311
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. : WMA20002/230607
Sampling Date : 2023-06-07

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.	38311-2	38311-3	38311-5	38311-6
Total Suspended Solids dried at 103-105°C (mg/L)	26	28	50	52
Arsenic (µg/L)	3	3	3	3

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	38311A
Date of Issue:	2023-06-13
Date Received:	2023-06-07
Date Tested:	2023-06-07
Date Completed:	2023-06-13
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38311A
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. : WMA20002/230607
Sampling Date : 2023-06-07

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.	38311-8	38311-9	38311-11	38311-12
Total Suspended Solids dried at 103-105°C (mg/L)	25	26	26	26

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38311-14	38311-15	38311-17	38311-18
Total Suspended Solids dried at 103-105°C (mg/L)	20	21	15	15

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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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.:	38313
Date of Issue:	2023-06-14
Date Received:	2023-06-09
Date Tested:	2023-06-09
Date Completed:	2023-06-14
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38313
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. : WMA20002/230609
Sampling Date : 2023-06-09

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.	38313-2	38313-3	38313-5	38313-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	25	21	24
Arsenic (µg/L)	20	21	8	8

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38313A
Date of Issue:	2023-06-14
Date Received:	2023-06-09
Date Tested:	2023-06-09
Date Completed:	2023-06-14
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38313A
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. : WMA20002/230609
Sampling Date : 2023-06-09

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.	38313-8	38313-9	38313-11	38313-12
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	7	8

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38313-14	38313-15	38313-17	38313-18
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	7	8

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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ATTN: **Mr. Marco Ma**

Report No.:	38327
Date of Issue:	2023-06-16
Date Received:	2023-06-12
Date Tested:	2023-06-12
Date Completed:	2023-06-16
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38327
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. : WMA20002/230612
Sampling Date : 2023-06-12

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.	38327-2	38327-3	38327-5	38327-6
Total Suspended Solids dried at 103-105°C (mg/L)	9	9	26	21
Arsenic (µg/L)	12	13	10	11

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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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.:	38327A
Date of Issue:	2023-06-16
Date Received:	2023-06-12
Date Tested:	2023-06-12
Date Completed:	2023-06-16
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38327A
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. : WMA20002/230612
Sampling Date : 2023-06-12

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.	38327-8	38327-9	38327-11	38327-12
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	16	14

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38327-14	38327-15	38327-17	38327-18
Total Suspended Solids dried at 103-105°C (mg/L)	15	16	15	17

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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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.:	38329
Date of Issue:	2023-06-20
Date Received:	2023-06-14
Date Tested:	2023-06-14
Date Completed:	2023-06-20
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38329
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. : WMA20002/230614
Sampling Date : 2023-06-14

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.	38329-2	38329-3	38329-5	38329-6
Total Suspended Solids dried at 103-105°C (mg/L)	9	8	43	37
Arsenic (µg/L)	12	12	13	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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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.:	38329A
Date of Issue:	2023-06-20
Date Received:	2023-06-14
Date Tested:	2023-06-14
Date Completed:	2023-06-20
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38329A
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. : WMA20002/230614
Sampling Date : 2023-06-14

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.	38329-8	38329-9	38329-11	38329-12
Total Suspended Solids dried at 103-105°C (mg/L)	16	16	17	15

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38329-14	38329-15	38329-17	38329-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	8	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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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.:	38332
Date of Issue:	2023-06-23
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-23
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38332
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. : WMA20002/230616
Sampling Date : 2023-06-16

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.	38332-2	38332-3	38332-5	38332-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	9	26	22
Arsenic (µg/L)	11	12	13	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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PATRICK TSE
General Manager

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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.:	38332A
Date of Issue:	2023-06-23
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-23
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38332A
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. : WMA20002/230616
Sampling Date : 2023-06-16

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.	38332-8	38332-9	38332-11	38332-12
Total Suspended Solids dried at 103-105°C (mg/L)	37	45	48	46

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38332-14	38332-15	38332-17	38332-18
Total Suspended Solids dried at 103-105°C (mg/L)	19	22	30	33

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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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.:	38389
Date of Issue:	2023-06-26
Date Received:	2023-06-19
Date Tested:	2023-06-19
Date Completed:	2023-06-26

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38389
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. : WMA20002/230619
Sampling Date : 2023-06-19

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.	38389-2	38389-3	38389-5	38389-6
Total Suspended Solids dried at 103-105°C (mg/L)	19	18	14	14
Arsenic (µg/L)	20	18	12	12

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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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.:	38389A
Date of Issue:	2023-06-26
Date Received:	2023-06-19
Date Tested:	2023-06-19
Date Completed:	2023-06-26
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38389A
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. : WMA20002/230619
Sampling Date : 2023-06-19

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.	38389-8	38389-9	38389-11	38389-12
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	8	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38389-14	38389-15	38389-17	38389-18
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	8	9

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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ATTN: **Mr. Marco Ma**

Report No.:	38392
Date of Issue:	2023-06-28
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-28
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38392
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. : WMA20002/230621
Sampling Date : 2023-06-21

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.	38392-2	38392-3	38392-5	38392-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	10	8
Arsenic (µg/L)	15	15	11	11

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	38392A
Date of Issue:	2023-06-28
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-28
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38392A
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. : WMA20002/230621
Sampling Date : 2023-06-21

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.	38392-8	38392-9	38392-11	38392-12
Total Suspended Solids dried at 103-105°C (mg/L)	10	12	13	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38392-14	38392-15	38392-17	38392-18
Total Suspended Solids dried at 103-105°C (mg/L)	8	9	4	3

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38395
Date of Issue:	2023-06-29
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-29
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38395
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. : WMA20002/230623
Sampling Date : 2023-06-23

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.	38395-2	38395-3	38395-5	38395-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	9	10	8
Arsenic (µg/L)	11	11	6	6

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38395A
Date of Issue:	2023-06-29
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-29
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38395A
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. : WMA20002/230623
Sampling Date : 2023-06-23

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.	38395-8	38395-9	38395-11	38395-12
Total Suspended Solids dried at 103-105°C (mg/L)	16	13	11	9

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38395-14	38395-15	38395-17	38395-18
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	13	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38415
Date of Issue:	2023-06-30
Date Received:	2023-06-26
Date Tested:	2023-06-26
Date Completed:	2023-06-30
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38415
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. : WMA20002/230626
Sampling Date : 2023-06-26

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.	38415-2	38415-3	38415-5	38415-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	17	16
Arsenic (µg/L)	12	12	13	14

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38415A
Date of Issue:	2023-06-30
Date Received:	2023-06-26
Date Tested:	2023-06-26
Date Completed:	2023-06-30
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38415A
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. : WMA20002/230626
Sampling Date : 2023-06-26

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.	38415-8	38415-9	38415-11	38415-12
Total Suspended Solids dried at 103-105°C (mg/L)	9	9	9	8

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38415-14	38415-15	38415-17	38415-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	10	11

Remarks: 1) < = less than

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PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38418
Date of Issue:	2023-07-04
Date Received:	2023-06-28
Date Tested:	2023-06-28
Date Completed:	2023-07-04
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38418
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. : WMA20002/230628
Sampling Date : 2023-06-28

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.	38418-2	38418-3	38418-5	38418-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	20	22
Arsenic (µg/L)	12	12	13	12

Remarks: 1) < = less than

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38418A
Date of Issue:	2023-07-04
Date Received:	2023-06-28
Date Tested:	2023-06-28
Date Completed:	2023-07-04
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38418A
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. : WMA20002/230628
Sampling Date : 2023-06-28

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.	38418-8	38418-9	38418-11	38418-12
Total Suspended Solids dried at 103-105°C (mg/L)	25	24	26	30

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38418-14	38418-15	38418-17	38418-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	16	20

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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ATTN: **Mr. Marco Ma**

Report No.:	38421
Date of Issue:	2023-07-06
Date Received:	2023-06-30
Date Tested:	2023-06-30
Date Completed:	2023-07-06
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 38421
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. : WMA20002/230630
Sampling Date : 2023-06-30

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.	38421-2	38421-3	38421-5	38421-6
Total Suspended Solids dried at 103-105°C (mg/L)	5	6	15	14
Arsenic (µg/L)	11	11	12	13

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	38421A
Date of Issue:	2023-07-06
Date Received:	2023-06-30
Date Tested:	2023-06-30
Date Completed:	2023-07-06
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 38421A
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. : WMA20002/230630
Sampling Date : 2023-06-30

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.	38421-8	38421-9	38421-11	38421-12
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	7	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	38421-14	38421-15	38421-17	38421-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	6	9	8

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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General Manager

APPENDIX I
QUALITY CONTROL REPORTS FOR SS AND ARSENIC LABORATORY ANALYSIS

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	QC38274
Date of Issue:	2023-06-07
Date Received:	2023-06-03
Date Tested:	2023-06-03
Date Completed:	2023-06-07
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 (%)	110	94	80-120
Arsenic (%)	104	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 (%)	3	3	RPD≤5%
Arsenic (%)	6	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 38274.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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18 On Lai Street,
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ATTN: **Mr. Marco Ma**

Report No.:	QC38309
Date of Issue:	2023-06-07
Date Received:	2023-06-05
Date Tested:	2023-06-05
Date Completed:	2023-06-07
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 (%)	104	98	80-120
Arsenic (%)	93	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	97	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	4	RPD≤5%
Arsenic (%)	2	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 38309.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
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ATTN: **Mr. Marco Ma**

Report No.:	QC38311
Date of Issue:	2023-06-13
Date Received:	2023-06-07
Date Tested:	2023-06-07
Date Completed:	2023-06-13
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 (%)	111	112	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 (%)	102	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	6	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 38311.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	QC38313
Date of Issue:	2023-06-14
Date Received:	2023-06-09
Date Tested:	2023-06-09
Date Completed:	2023-06-14
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 (%)	117	88	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 (%)	100	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	1	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 38313.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	QC38327
Date of Issue:	2023-06-16
Date Received:	2023-06-12
Date Tested:	2023-06-12
Date Completed:	2023-06-16
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 (%)	89	116	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 (%)	18	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 38327.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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ATTN: **Mr. Marco Ma**

Report No.:	QC38329
Date of Issue:	2023-06-20
Date Received:	2023-06-14
Date Tested:	2023-06-14
Date Completed:	2023-06-20
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 (%)	118	102	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 (%)	87	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	1	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 38329.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
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ATTN: **Mr. Marco Ma**

Report No.:	QC38332
Date of Issue:	2023-06-23
Date Received:	2023-06-16
Date Tested:	2023-06-16
Date Completed:	2023-06-23
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 (%)	109	91	80-120
Arsenic (%)	88	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	6	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	3	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 38332.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
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ATTN: **Mr. Marco Ma**

Report No.:	QC38389
Date of Issue:	2023-06-26
Date Received:	2023-06-19
Date Tested:	2023-06-19
Date Completed:	2023-06-26
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 (%)	104	83	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 (%)	89	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	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 38389.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC38392
Date of Issue:	2023-06-28
Date Received:	2023-06-21
Date Tested:	2023-06-21
Date Completed:	2023-06-28
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 (%)	113	98	80-120
Arsenic (%)	87	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	2	RPD≤5%
Arsenic (%)	13	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 38392.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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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.:	QC38395
Date of Issue:	2023-06-29
Date Received:	2023-06-23
Date Tested:	2023-06-23
Date Completed:	2023-06-29
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 (%)	109	88	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 (%)	3	4	RPD≤5%
Arsenic (%)	2	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 38395.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

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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.:	QC38415
Date of Issue:	2023-06-30
Date Received:	2023-06-26
Date Tested:	2023-06-26
Date Completed:	2023-06-30
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 (%)	98	86	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 (%)	111	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	1	RPD≤5%
Arsenic (%)	14	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 38415.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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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.:	QC38418
Date of Issue:	2023-07-04
Date Received:	2023-06-28
Date Tested:	2023-06-28
Date Completed:	2023-07-04
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 (%)	111	87	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 (%)	104	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	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 38418.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	QC38421
Date of Issue:	2023-07-06
Date Received:	2023-06-30
Date Tested:	2023-06-30
Date Completed:	2023-07-06
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 (%)	113	85	80-120
Arsenic (%)	89	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	105	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	3	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 38421.

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRCIK TSE
General Manager

APPENDIX J
LANDFILL GAS MONITORING RESULTS

Contract No. ND/2019/01

Development of Kwu Tung North & Fanling North New Development Area, Phase 1: Kwu Tung North New Development Area, Phase 1: Site formation & Infrastucture works

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%
21-06-2023 9:00	CZ PT 1		20.07	0.00	0.01
21-06-2023 9:04	CZ container 1		20.69	0.00	0.02
21-06-2023 9:06	CZ container 2		20.85	0.00	0.04
21-06-2023 9:08	CZ container 3		20.95	0.00	0.04
21-06-2023 9:10	CZ container 4		20.94	0.00	0.04
21-06-2023 9:02	CZ container 5		20.62	0.00	0.01

Prepared by : Y L Chan (Safety Officer) Date : 21-06-2023

APPENDIX K
BUILT HERITAGE MONITORING RESULTS

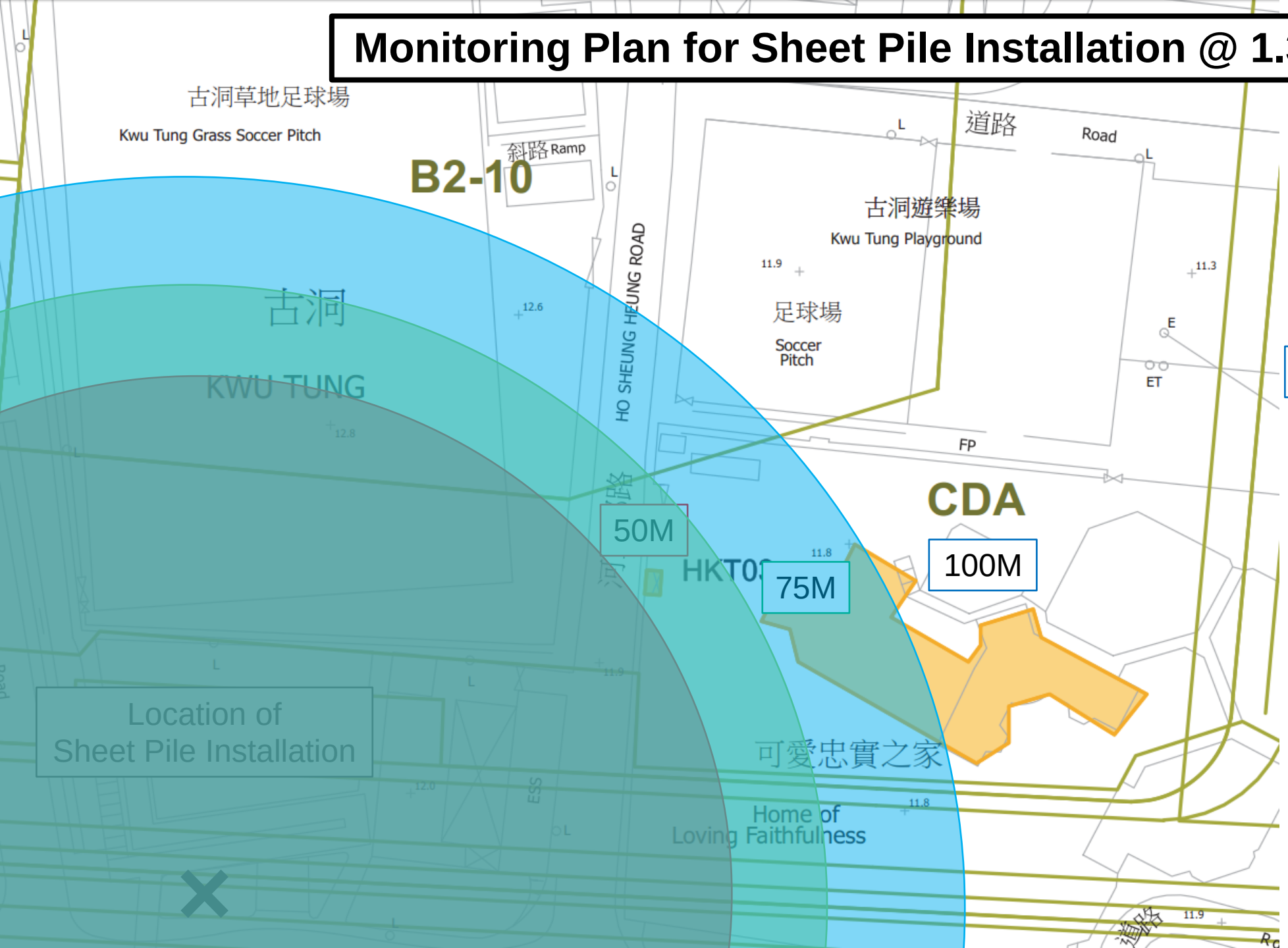
Vibration Monitoring Data

Monitoring Location : HKT03

Type of building	Guide values of Maximum PPV (mm/sec)	
	Transient Vabration	Continuous Vibration
Vibration sensitive/ Dilapidated building	7.5	3.0

Date	Results (Max Point) (mm/s)	Location of pile
2023 06 01	0.501	1.32
2023 06 02	0.433	1.32
2023 06 03	0.480	1.32

Monitoring Plan for Sheet Pile Installation @ 1.32



50M — Daily Monitoring

75M — Bi-Daily Monitoring (Monitoring Suspended due to restricted accessibility by property owner)

100M — Weekly Monitoring (Monitoring Suspended due to restricted accessibility by property owner)

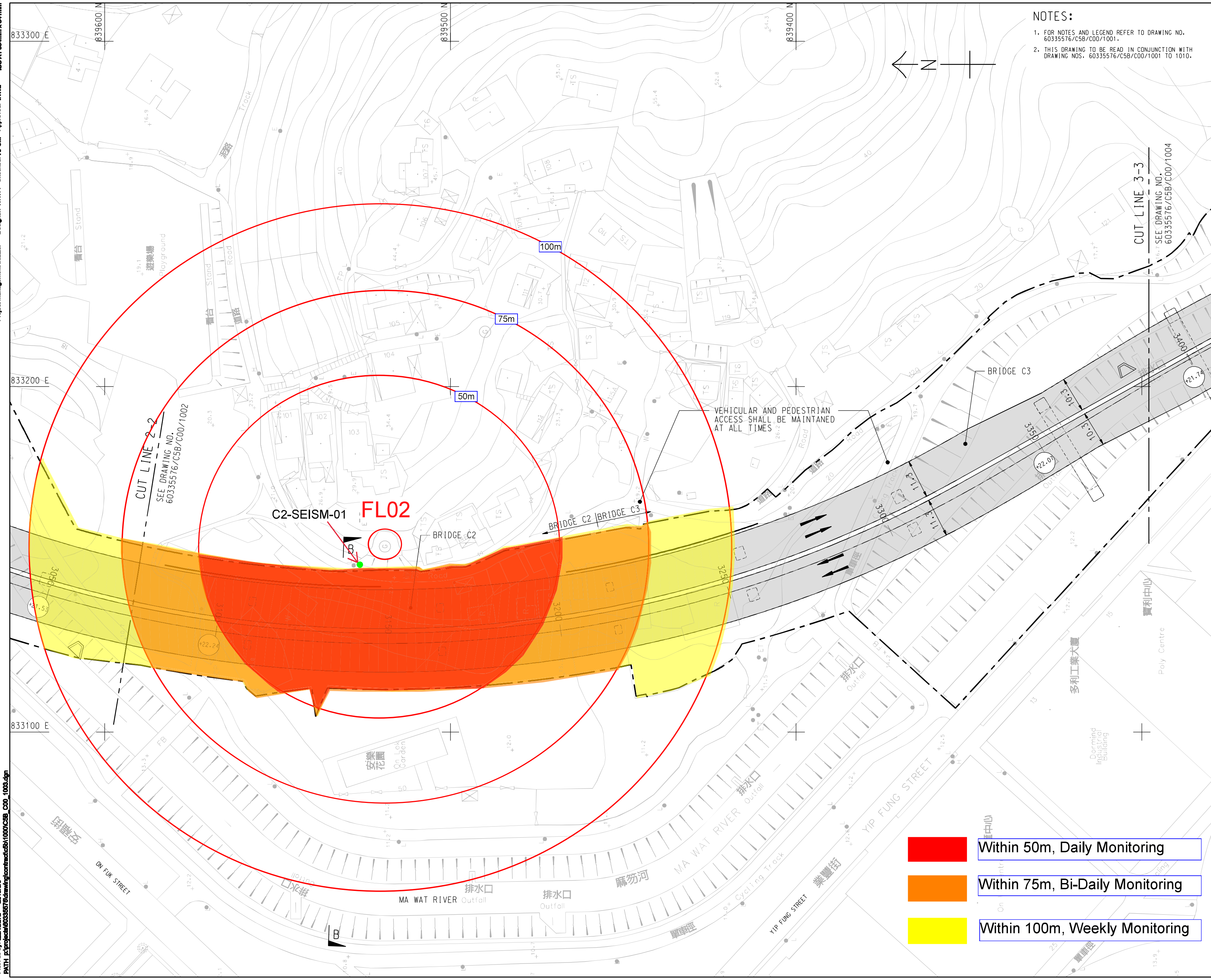
Summary of vibration readings at FL02
(C2-SEISM-01)

CRCC – Paul Y. Joint Venture

Table 2.3: Vibration Limit from PNAP APP-137 & PS 34.01(2)

TYPE OF BUILDING	GUIDE VALUES OF MAXIMUM PPV* (MM/SEC)	
	TRANSIENT VIBRATION	CONTINUOUS VIBRATION
Vibration-sensitive / dilapidated buildings#	7.5	3.0

Date	Max. PPV recorded (mm/s)	Serial no. of device (Micromate/ Supergraph)
19 Jun 2023	0.749	UM17121
20 Jun 2023	0.641	UM17121
21 Jun 2023	1.872	UM17121
23 Jun 2023	0.411	UM17121



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 (SHUNG HIM TONG TO KAU LUNG HANG)

CLIENT

土木工程拓展署 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS

ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
-	JUN-19	TENDER DRAWING	RPCM

STATUS

SCALE A1 1:500

DIMENSION UNIT METRES

KEY PLAN A1 1:70000

PROJECT NO. 60335576

CONTRACT NO. ND/2019/05

SHEET TITLE

GENERAL LAYOUT

SHEET 3 OF 10

SHEET NUMBER

60335576/C5B/C00/1003

Project Management Initials: Designer: WHWY Checked: RPCM Approved: IHWL ISO A1 594mm x 841mm

Plot File by: ZENGLY2 2019/6/9
PATH: p:\projects\60335576\drawing\contracts\c5b\1000\C5B_C00_1003.dgn

APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 2 June 2023, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.48					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		1	3						1	1
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv		4	1	2						6
Black Kite	*Milvus migrans*	黑鳶	R, WV		2	2							1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		4	2	1		1				4
Black-throated Laughingthrush	*Pterorhinus chinensis*	黑喉噪鶥	R		1								
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC					2	16			8
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3		4	2	1	1			1
Cinereous Tit	*Parus cinereus*	蒼背山雀	R		6				2				
Common Myna	*Acridotheres tristis*	家八哥	UR				1		2				
Crested Myna	*Acridotheres cristatellus*	八哥	R		6	3	2		8				6
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)			1						
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R			7							8
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)			3	2	1				1
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)		1							

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.48					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC			1						
Large-billed Crow	*Corvus macrorhynchus*	大嘴烏鴉	R			1							
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv			1						1	
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	1	1	8		2	2			4
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R			3	4		8				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R			1						1	1
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						2				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		3	5	3		2				
Rock Dove	*Columba livia*	原鴿	R			7			13				8
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						50				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R				4		2				5
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		2								
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1					
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)					1				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			1							3
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		2				1			2	
Total No. of Species					12	15	12	3	17	3	0	4	14

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.48, 2.48					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Conservation Interest Species					2	2	5	2	5	3	0	0	4

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant;; UR – Uncommon resident; CWV - Common Winter Visitor; OV - Occasional visitor
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
CR: Critically Endangered 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 L1b. Avifauna Species Recorded for Water Birds Monitoring, 2 June 2023, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.25					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		1	2							
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv		1	3	5						21
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2	1	1		4				2
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			2	8	2	6			5
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)		1	3	4	1	1			2
Cinereous Tit	*Parus cinereus*	蒼背山雀	R						1				
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R										1
Common Myna	*Acridotheres tristis*	家八哥	UR				2		6				
Crested Myna	*Acridotheres cristatellus*	八哥	R		6		4		24				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R			2							
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)			4	1	2	1			4
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)	1				1				
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC	1		1						
Large-billed Crow	*Corvus macrorhynchus*	大嘴烏鴉	R				1						
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv		1	3						1	
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)		3	14	6	3	9			4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.25					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R		2	1	2		6			1	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R				1		2				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						1				
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										4
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R										1
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		5	2			2				
Rock Dove	*Columba livia*	原鴿	R		4	13			6				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						16				24
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	1	3		4				6
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		2								
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1	1						1
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		4			1	1			1	
Total No. of Species					13	12	14	5	17	4	0	3	12
Total No. of Conservation Interest Species					2	3	6	4	5	4	0	0	5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			2/6/2023 (T1 & T2), 2/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.25, 1.25					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

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;; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident;
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)
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 L1c. Avifauna Species Recorded for Water Birds Monitoring, 5 & 6 June 2023, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.96, 3.04					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Alexandrine Parakeet	*Psittacula eupatria*	亞歷山大鸚鵡	RR	NT, Cap. 586		1							
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		2	3						2	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv				1						5
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv			3							1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		3	5	2						
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				3		14			8
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R			2	2		1				2
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)		3	4	3	2				2
Cinereous Tit	*Parus cinereus*	蒼背山雀	R		2								
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			3						
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R			2							
Crested Myna	*Acridotheres cristatellus*	八哥	R		9	6	4		16				6
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		1	1							12
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)			2						2
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC			2						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.96, 3.04					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
House Swift	*Apus nipalensis*	小白腰雨燕	SpM, R		1	1							4
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv			1							
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	1	3	9			3			4
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R			2	2		9				2
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R			4	2		1				
Pied Kingfisher	*Ceryle rudis*	斑魚狗	UR	(LC)									2
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						3				
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R		1	1							
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		2	5							4
Rock Dove	*Columba livia*	原鴿	R			14	2		9				4
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R										30
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	7	4		2				6
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R			6							
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			1	1						2
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1					
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)									1
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		1				1			2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.96, 3.04					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					8	20	14	3	9	2	0	2	18
Total No. of Conservation Interest Species					1	3	4	2	1	2	0	0	5

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; USV - Uncommon Summer visitor; SpM – Spring migrant; UR – Uncommon resident; SWV –CWV - Common Winter Visitor;
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)
VU: Vulnerable in IUCN Red List Status
EN: Endangered in IUCN Red List Status
(EN): Endangered in China Red Data Book 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, 5 & 6 June 2023, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.27, 1.33					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		2	2						2	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv			1	4		2				19
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv				1						
Black Kite	*Milvus migrans*	黑鳶	R, WV				2						
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2	3	2		2			3	4
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC	2	2				1			
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				11	1	11			4
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						3				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	7	1	7	2	1				2
Cinereous Tit	*Parus cinereus*	蒼背山雀	R		1								
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			4						
Common Myna	*Acridotheres tristis*	家八哥	UR						1				
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R			1			1				
Crested Myna	*Acridotheres cristatellus*	八哥	R		4	1	5		6				10
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)			2						1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.27, 1.33					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R			12	3		19				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)			1						1
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)						1			
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1		1						
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC		1	1	1					
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv			1							
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	4	4	16	3	2	5			5
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R		2	4						5	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1	3	1		1				
Plain Prinia	*Prinia inornata*	純色鱲鶯	R						1			1	
Plaintive Cuckoo	*Cacomantis merulinus*	八聲杜鵑	USV									1	
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		1	5							2
Rock Dove	*Columba livia*	原鴿	R		2	10			9				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						5				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	9	2		4				
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		6	1							
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV		1				1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			6/6/2023 (T1 & T2), 5/6/2023 (T3 & T5)					
					Weather Condition			Rainy, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.27, 1.33					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						6				
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		1	2	1					5	
Total No. of Species					16	18	16	4	17	4	0	6	9
Total No. of Conservation Interest Species					4	4	7	4	3	4	0	0	5

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SpM – Spring migrant; UR – Uncommon resident; CWV - Common Winter Visitor
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)
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, 15 & 16 June 2023, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Drizzle					
					Tidal Condition			High					
					Tide Level (m)			2.28, 2.47					
					Start Time			0900, 0900					
					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		1		4		7				6
Black Kite	*Milvus migrans*	黑鳶	R, WV		4								
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R				3		6				
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC			1						
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				9	1	7			5
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	6	2	16	3	3				4
Cinereous Tit	*Parus cinereus*	蒼背山雀	R						2				
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			2						
Common Kingfisher	*Alcedo atthis*	普通翠鳥	R		1								
Common Myna	*Acridotheres tristis*	家八哥	UR				1						
Crested Myna	*Acridotheres cristatellus*	八哥	R		9		13		30				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R				5		13				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	12	7			1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Drizzle					
					Tidal Condition			High					
					Tide Level (m)			2.28, 2.47					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC		1							
House Swift	*Apus nipalensis*	小白腰雨燕	SpM, R										1
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC			1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	7	15	22	6	5	4			
Little Grebe	*Tachybaptus ruficollis*	小鷿鷉	R	LC						1			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R		1		4		1			5	
Oriental Turtle Dove	*Streptopelia orientalis*	山斑鳩	WV, PM						1				
Plain Prinia	*Prinia inornata*	純色鱲鶯	R					5					
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R				3					2	
Rock Dove	*Columba livia*	原鴿	R			9							
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						105				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1		6		8				
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R						4				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				1		1				1
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R						1			1	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						20				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Drizzle					
					Tidal Condition			High					
					Tide Level (m)			2.28, 2.47					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)					1				
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R				2					5	
Total No. of Species					9	5	15	4	20	3	0	5	5
Total No. of Conservation Interest Species					3	4	5	3	6	3	0	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; SpM – Spring migrant;UR – Uncommon resident; CWV - Common Winter Visitor; OV – Occasional Visitor
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)
(EN): Endangered in China Red Data Book Status
VU: Vulnerable 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, 15 & 16 June 2023, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Fine					
					Tidal Condition			Low					
					Tide Level (m)			1.07, 1.34					
					Start Time			1300, 1300					
					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		6								3
Black Kite	*Milvus migrans*	黑鳶	R, WV		2	1							1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						2				1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				2		10			8
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	7	4	7	6	3	1			1
Common Myna	*Acridotheres tristis*	家八哥	UR						2				
Crested Myna	*Acridotheres cristatellus*	八哥	R		6				5				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R										26
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	10	8	3	1	2				1
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC		2							
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC			1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	9	11	21	4	2	3			3
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						2			3	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Fine					
					Tidal Condition			Low					
					Tide Level (m)			1.07, 1.34					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						1				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						1				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R				2		2				2
Rock Dove	*Columba livia*	原鴿	R			12	2		9				5
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						62				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	2	4		2				6
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV										1
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1					
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						2				1
Total No. of Species					7	7	7	5	15	3	0	2	13
Total No. of Conservation Interest Species					3	4	4	4	3	2	0	0	4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			15/6/2023 (T1 & T2), 16/6/2023 (T3 & T5)					
					Weather Condition			Rainstorm, Fine					
					Tidal Condition			Low					
					Tide Level (m)			1.07, 1.34					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

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;; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; OV - Occasional visitor
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)
(VU): Vulnerable in China Red Data Book Status
NT: Near Threatened 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, 19 & 21 June 2023, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.52, 2.71					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		1	1						1	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv		2	5	1		3				4
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv			3	2						1
Black Kite	*Milvus migrans*	黑鳶	R, WV		1	1							1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2	2			1				5
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				6	3	10			6
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R				1						1
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	7	2	3	1				5
Cinereous Tit	*Parus cinereus*	蒼背山雀	R		4								
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			1		1				
Common Myna	*Acridotheres tristis*	家八哥	UR					4	6				
Crested Myna	*Acridotheres cristatellus*	八哥	R			1	4		24				18
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R			2							38
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		1	2	2	2				1
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.52, 2.71					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
House Swift	*Apus nipalensis*	小白腰雨燕	SpM, R										4
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC		1	1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	1	6	11	2	3	14			2
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鸝	R		3		1		3			1	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1	1	1					1	
Pied Kingfisher	*Ceryle rudis*	斑魚狗	UR	(LC)	1								
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						2				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		3	2	2						
Rock Dove	*Columba livia*	原鴿	R			1			6				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						16				2
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1	3	3		6				2
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		2	3			2				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			2							3
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R		1			1					
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						12				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1	1		1				
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						1			1	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			2.52, 2.71					
					Start Time			1000, 1000					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					14	18	14	6	19	2	0	4	15
Total No. of Conservation Interest Species					3	5	6	4	7	2	0	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; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; OV - Occasional visitor
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)
VU: Vulnerable in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=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, 19 & 21 June 2023, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.37					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R		5							1	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv		2	1	2						6
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv		2								
Black Kite	*Milvus migrans*	黑鳶	R, WV		1								
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		1	5	5		1			2	7
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				1	2	7		3	1
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵐	R					2	4				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	7	3		2				3
Cinereous Tit	*Parus cinereus*	蒼背山雀	R			4							
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU		2							
Common Moorhen	*Gallinula chloropus*	黑水雞	R						1				
Common Myna	*Acridotheres tristis*	家八哥	UR										3
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R		3				1				
Crested Myna	*Acridotheres cristatellus*	八哥	R		3	6	2		4				7
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)				4					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.37					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		2	8			2				4
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	2	2						1
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC		2		2					
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv									1	
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	5	14	23	2	3				2
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC						2			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R		4	2	3						
Oriental Magpie	*Pica serica*	喜鵲	R		1								
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1		1		1				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R		1	5	1					1	
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		3	2			2			1	
Rock Dove	*Columba livia*	原鴿	R			10			11				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R				1		2				8
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	2	1		2				
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		2	1	3						
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV		1								3
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R									3	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			21/6/2023 (T1 & T2), 19/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.37					
					Start Time			1600, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		1							3	
Total No. of Species					20	16	12	5	14	2	0	8	11
Total No. of Conservation Interest Species					3	5	3	4	3	2	0	2	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;; USV - Uncommon Summer visitor; SpM – Spring migrant; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor.
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)
VU: Vulnerable 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 & 30 June 2023, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.02, 2.33					
					Start Time			0800, 0800					
					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										1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2	4			2			1	
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC			1						
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				2		24			38
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3	2	9		2	1			3
Cinereous Tit	*Parus cinereus*	蒼背山雀	R		2	1							
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			2						
Common Myna	*Acridotheres tristis*	家八哥	UR		1			1					
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R		2								
Crested Myna	*Acridotheres cristatellus*	八哥	R		3	8			12				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R		1								4
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		2	3	3					1
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)	1								
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1								

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.02, 2.33					
					Start Time			0800, 0800					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
House Swift	*Apus nipalensis*	小白腰雨燕	SpM, R										1
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC	1		1						
Large-billed Crow	*Corvus macrorhynchus*	大嘴烏鴉	R		1								
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	4	10	20	4	1	20			4
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R			2							
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						1				
Pied Kingfisher	*Ceryle rudis*	斑魚狗	UR	(LC)	1								
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R			2							
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		7	10							
Rock Dove	*Columba livia*	原鴿	R			17							
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						15				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R						4				8
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R			2							
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV										2
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					2					
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						8				
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		1	3							

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			High					
					Tide Level (m)			2.02, 2.33					
					Start Time			0800, 0800					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					16	12	6	5	8	3	0	1	9
Total No. of Conservation Interest Species					6	3	6	3	2	3	0	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; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; OV - Occasional visitor
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)
VU: Vulnerable in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=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. Avifauna Species Recorded for Water Birds Monitoring, 30 & 29 June 2023, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.88, 0.88					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R				2						
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv		1		3						3
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		3	2	2		2				
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC			1						
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			4		3				6
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	4	4		9				3
Cinereous Tit	*Parus cinereus*	蒼背山雀	R			1							
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R		2	2	1						
Crested Myna	*Acridotheres cristatellus*	八哥	R		4				3				7
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						5				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	3	1	1		1				
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	1								
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC	1	1	1						
Large-billed Crow	*Corvus macrorhynchus*	大嘴烏鴉	R		2		1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	6	11	12		5				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.88, 0.88					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC						1			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R			3							
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R			2			6				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R					2					
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R		3	4	3		2			4	
Rock Dove	*Columba livia*	原鴿	R			24			1				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						70				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2		2		1				
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R		7				4				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			1			4				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R						4			2	
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R		3	1	1				3		
Total No. of Species					14	13	14	1	15	1	1	2	4
Total No. of Conservation Interest Species					5	4	6	0	4	1	0	0	2

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			29/6/2023 (T1 & T2), 30/6/2023 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			Low					
					Tide Level (m)			0.88, 0.88					
					Start Time			1300, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight

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;; USV - Uncommon Summer visitor; SpM – Spring migrant; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor.
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)
VU: Vulnerable 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 L1k, Waterbirds Recorded in June 2023

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, In flight T3: River bank, River bed, in flight T5: Shallow Water Habitat	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, 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 Kingfisher	*Alcedo atthis*	普通翠鳥		T1: River bank, In flight T5: In flight	Common passage migrant and winter visitor. Widely distributed in wetland habitat throughout Hong Kong.
Common Moorhen	*Gallinula chloropus*	黑水雞		T5: Shallow Water Habitat	Common winter visitor, resident and migrant. Found in Deep Bay area, Shuen Wan, Starling Inlet.
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	(LC)	T3: River bank, River bed, In flight T5: Wet Agricultural Land, In flight	Resident and common passage migrant. Widely distributed 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.
Grey Heron	*Ardea cinerea*	蒼鷺	PRC	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Intermediate Egret	*Ardea intermedia*	中白鷺	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	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*	小鷿鷉	LC	T5: Shallow Water Habitat	Common resident. Found in Deep Bay area.
Pied Kingfisher	*Ceryle rudis*	斑魚狗	(LC)	T1: In flight T5: In flight	Uncommon resident. Widely distributed in lakes and ponds throughout Hong Kong.
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥		T1: River bank T5: Wet Agricultural Land, Dry Agricultural Land	Common resident. Widely distributed in wetland throughout Hong Kong.
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	(LC)	T2: River bank, In flight T3: River bank, River bed, In flight T5: Dry Agricultural Land, In flight	Common resident. Widely distributed in coastal areas throughout Hong Kong.

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; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor
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)
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

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
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 *Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)					

Appendix L1l. Birds Recorded in June 2023

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Alexandrine Parakeet	*Psittacula eupatria*	亞歷山大鸚鵡	RR	NT, Cap. 586
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	(RC), Cap.586
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R	
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC
Black-throated Laughingthrush	*Pterorhinus chinensis*	黑喉噪鶥	R	
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)
Cinereous Tit	*Parus cinereus*	蒼背山雀	R	
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU
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 Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R	
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)

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC
House Swift	*Apus nipalensis*	小白腰雨燕	SpM, R	
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv	
Large-billed Crow	*Corvus macrorhynchus*	大嘴烏鴉	R	
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)
Little Grebe	*Tachybaptus ruficollis*	小鸊鷉	R	LC
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R	
Oriental Magpie	*Pica serica*	喜鵲	R	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R	
Oriental Turtle Dove	*Streptopelia orientalis*	山斑鳩	WV, PM	
Pied Kingfisher	*Ceryle rudis*	斑魚狗	UR	(LC)
Plain Prinia	*Prinia inornata*	純色鷦鶯	R	
Plaintive Cuckoo	*Cacomantis merulinus*	八聲杜鵑	USV	
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	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	
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
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	
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(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; UR – Uncommon resident; SPM - Scarce Passage Migrant; SpM – Spring Migrant; ; USV - Uncommon Summer visitor; Sv – Summer Visitor; SSv – Spring & Summer Visitor; SWV – Scarce winter visitor;
Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable in China Red Data Book Status
(EN): Endangered in China Red Data Book 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 L2. Freshwater Macroinvertebrate Species Recorded for Aquatic Fauna Monitoring, 20 June, 2023

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 20 June 2023									
				Weather: Fine									
				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								+	+	+
Atyid shrimp	*Caridina* sp.	-	-										
Black Threadtail	*Prodasineura autumnalis*	-	Native				+						
Bladder Snail	*Physella acuta*	-	-			++			++				
Blood Worm	Chironomidae	-	-		++								
Caddisfly	*Hydroptila* sp.	-	-								+		
Chinese River Snail	*Sinotaia guangdungensis*	-	Native				++		++		++		+++
Common Bluetail	*Ischnura senegalensis*	-	Native				+						
Crimson Dropwing	*Trithemis aurora*	-	Native		+		+						
Golden Bee Shrimp	*Caridina cantonensis*	-	Native										
Golden Freshwater Clam	*Corbicula fluminea*	-	Native									++	
Indigo Dropwing	*Trithemis festiva*	-	Native		+					+			
Leech	*Hirudinea*	-	-										
Mayfly	*Baetis* sp.	-	-								+++		
	Cloeon sp.	-	-								++		
	Procloeon sp.	-	-								++		

Orange-tailed Sprite	*Ceriagrion auranticum ryukyuanum*	-	Native										+
Ram's Horn Snail	*Gyraulus convexiusculus*	-	Introduced		+++	+++							
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced		++	+++							
Water Strider	*Metrocoris sp.*	-	-						+	++			
	Microvelia sp.	-	-				+++				++	++	+++
	Ptilomera tigrina	-	Native				++				++	+	
Yellow Featherlegs	*Copera marginipes*	-	Native						+	+			
Total No. of species				0	5	3	6	0	4	3	7	4	4
Total No. of Conservation Interest Species				0	0	0	0	0	0	0	0	0	0

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)

Common Name	Scientific Name	Conservation Status	Occurece Status	Date: 20 June 2023				
				Weather: Fine				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12	MS_13	MS_14	MS_15
Apple Snail	*Pomacea canaliculata*	-	Introduced		+++	+++	+	+++
Atyid shrimp	*Caridina* sp.	-	-			+++		
Black Threadtail	*Prodasineura autumnalis*	-	Native					
Bladder Snail	*Physella acuta*	-	-				+	
Blood Worm	Chironomidae	-	-	++		++	+	+++
Caddisfly	*Hydroptila* sp.	-	-					
Chinese River Snail	*Sinotaia guangdungensis*	-	Native					
Common Bluetail	*Ischnura senegalensis*	-	Native					
Crimson Dropwing	*Trithemis aurora*	-	Native					
Golden Bee Shrimp	*Caridina cantonensis*	-	Native					
Golden Freshwater Clam	*Corbicula fluminea*	-	Native					
Indigo Dropwing	*Trithemis festiva*	-	Native					
Leech	*Hirudinea*	-	-					
Mayfly	*Baetis* sp.	-	-					
	Cloeon sp.	-	-				+	
	Procloeon sp.	-	-					
Orange-tailed Sprite	*Ceriagrion auranticum ryukyuanum*	-	Native					
Ram's Horn Snail	*Gyraulus convexiusculus*	-	Introduced				+	
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced					+++

Water Strider	*Metrocoris sp.*	-	-				+++	++
	Microvelia sp.	-	-					
	Ptilomera tigrina	-	Native					
Yellow Featherlegs	*Copera marginipes*	-	Native					
Total No. of species				0	1	7	3	5
Total No. of Conservation Interest Species				0	0	0	0	0

Appendix L3. Freshwater Fish Species Recorded for Aquatic Fauna Monitoring, 20 June 2023

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 20 June 2023									
				Weather: Fine									
				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
Chinese Barb	*Barbodes semifasciolatus*	-	Native						+				
Koi	*Cyprinus rubrofuscus*	-	Native								+		
Predaceous chub	*Parazacco spilurus*	(VU)	Native						+		+		
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	0	0	0	4	0	5	0	0
Total No. of Conservation Interest Species				0	0	0	0	0	2	0	2	0	0

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Animals.

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: 20 June 2023				
				Weather: Fine				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12	MS_13	MS_14	MS_15
Chinese Barb	*Barbodes semifasciolatus*	-	Native					+
Koi	*Cyprinus rubrofuscus*	-	Native					
Predaceous chub	*Parazacco spilurus*	(VU)	Native			+		+
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	5
Total No. of Conservation Interest Species				0	0	1	0	2

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Animals.

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, 14 & 23 June 2023

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 14/6/2023 (T1,6) , 23/6 /2022 (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	++	++	++		++
Eurasian Wild Pig	*Sus scrofa*	野豬		Native	+				
Japanese Pipistrelle	*Pipistrellus abramus*	東亞家蝠	Cap. 170	Native	+++	+++	+++	++	+
Short-nosed Fruit Bat	*Cynopterus sphinx*	短吻果蝠	Cap. 170, NT	Native	+++				
Total No. of species					5	2	2	1	2
Total No. of Conservation Interest Species					2	0	2	1	1
Total No. of Native Species					3	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

Local Restrictedness Column has been removed as said information is no longer available.

Appendix L5. Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 14 & 23 June 2023

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 14/6/2023 (T1,6) , 23/6 /2022 (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	+			+	
Chinese Bullfrog	*Hoplobatrachus rugulosus*	虎紋蛙	(EN)	Native	+				
Greenhouse Frog	*Eleutherodactylus planirostris*	溫室蟾	-	Introduced				+	
Gunther's Frog	*Hylarana guentheri*	沼蛙	-	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	++	+	+	+	+
Total No. of species					7	4	3	8	4
Total No. of Conservation Interest Species					1	0	0	0	0
Total No. of Native Species					7	4	3	7	4

Note:
(EN): Near Threatened in Red List of China 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 L6. Butterfly Species Recorded Ecologically Sensitive Habitat Monitoring, 14 & 23 June 2023

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 14/6/2023 (T1,6) , 23/6 /2022 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Blue Tiger	*Tirumala limniace*	青斑蝶		-		+			
Blue-spotted Crow	*Euploea midamus*	藍點紫斑蝶		-	++		+	+	+
Chinese Peacock	*Papilio bianor*	碧鳳蝶		-	+				
Chocolate Pansy	*Junonia iphita*	鉤翅眼蛺蝶		-	+				
Common Bluebottle	*Graphium sarpedon*	青鳳蝶		-	+	+	+	+	
Common Five-ring	*Ypthima baldus*	矍眼蝶		-	+	+		+	+
Common Grass Yellow	*Eurema hecabe*	寬邊黃粉蝶		-	+++	+	++	+	+
Common Indian Crow	*Euploea core*	幻紫斑蝶		-	+++				
Common Jay	*Graphium doson axion*	木蘭青鳳蝶		-	+				
Common Jester	*Symbrenthia lilaea*	散紋盛蛺蝶		-	+			+	
Common Mapwing	*Cyrestis thyodamas*	網絲蛺蝶		-	+				
Common Mime	*Chilasa clytia*	斑鳳蝶		-	+				
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		-	+		+	+	
Courtesan	*Euripus nyctelius*	芒蛺蝶	VR	-	+				
Dark Brand Bush Brown	*Mycalesis mineus*	小眉眼蝶		-	++				+
Five-dot Sergeant	*Parathyma sulpitia*	殘鍔線蛺蝶		-	+				

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 14/6/2023 (T1,6) , 23/6 /2022 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Forest Hopper	*Astictopterus jama*	腌翅弄蝶		-	+				
Glassy Tiger	*Parantica aglea*	絹斑蝶		-					+
Great Egg-fly	*Hypolimnas bolina*	幻紫斑蛱蝶		-			++		
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		-		+	+	+	
Large Faun	*Faunis eumeus*	串珠環蝶		-	+				
Lemon Emigrant	*Catopsilia pomona*	遷粉蝶		-	++		+	+	
Lemon Pansy	*Junonia lemonias*	蛇眼蛱蝶		-			+		
Lime Blue	*Chilades lajus*	紫灰蝶		-	+				
Lime Butterfly	*Papilio demoleus*	達摩鳳蝶		-	+				
Long-tailed Blue	*Lampides boeticus*	亮灰蝶		-					+
Pale Grass Blue	*Pseudozizeeria maha*	酢漿灰蝶		-	+++	+			
Paris Peacock	*Papilio paris*	巴黎翠鳳蝶		-	++			+	++
Plain Tiger	*Danaus chrysippus*	金斑蝶		-					+
Plum Judy	*Abisara echerius*	蛇目褐蜆蝶		-	+	+			+
Rare Swift	*Parnara ganga*	曲紋稻弄蝶		-					+
Red Helen	*Papilio Helenus*	玉斑鳳蝶		-	++		+	+	+
Red-base Jezebel	*Delias pasithoe*	報喜斑粉蝶		-				+	+
Red Ring Skirt	*Hestina assimilis*	黑脈蛱蝶			++			+	+
Short-banded Sailer	*Phaedyma columella*	柱菲蛱蝶			+				
Silver Streak Blue	*Iraota timoleon*	鐵木萊異灰蝶			+				

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 14/6/2023 (T1,6) , 23/6 /2022 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Small White	*Pieris rapae*	菜粉蝶			+++		+		++
South China Bush Brown	*Mycalesis mineus*	平頂眉眼蝶			+				
Southern Sullied Sailer	*Neptis clinia*	珂環蛺蝶							+
Spangle	*Papilio protenor*	藍鳳蝶			+++		+	++	++
Staff Sergeant	*Athyma selenophora*	新月帶蛺蝶			+				
Tailless Line Blue	*Prosotas dubiosa*	疑波灰蝶			+		+		+
Tawny Rajah	*Charaxes bernardus*	白帶螯蛺蝶			+	+	+		
Three-spot Grass Yellow	*Eurema blanda*	劈黃粉蝶			++		++	+	+
Water Snow Flat	*Tagiades litigiosus*	沾邊裙弄蝶			+				
White-edged Blue Baron	*Euthalia phemius*	尖翅翠蛺蝶			++		+		
Yellow Rajah	*Charaxes marmax*	螯蛺蝶	LC		+		+	+	+
Total No. of species					40	10	19	17	20
Total No. of Conservation Interest Species					2	0	1	1	1

Note:

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)

*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)

VR: Very rare (Chan et al. (2011))

Appendix L7. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 14 & 23 June 2023

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Stauts	Date: 14/6/2023 (T1,6) , 23/6 /2022 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Asian Amberwing	*Brachythemis contaminata*	黃翅蜻		Native	+				
Amber-winged Glider	*Hydrobasileus croceus*	臀斑楔翅蜻		Native			+		
Blue Chaser	*Potamarcha congener*	濕地狹翅蜻	LC	Native	++				
Blue Dasher	*Brachydiplax flavovittata*	藍額疏脈蜻		Native				+	+
Blue Percher	*Diplacodes trivialis*	紋藍小蜻		Native	+				
Common Blue Skimmer	*Orthetrum glaucum*	黑尾灰蜻		Native			+	+	+
Common Flangetail	*Ictinogomphus pertinax*	霸王葉春蜓		Native	+				
Common Red Skimmer	*Orthetrum pruinosum*	赤褐灰蜻		Native	+		+	+	
Elusive Adjutant	*Aethriamanta brevipennis*	紅腹異蜻		Non-native	+				
Forest Chaser	*Lyriothemis elegantissima*	華麗寬腹蜻		Native				+	
Green Skimmer	*Orthetrum sabina*	狹腹灰蜻		Native	+		+		
Marsh Skimmer	*Orthetrum luzonicum*	呂宋灰蜻		Native	+				

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Stauts	Date: 14/6/2023 (T1,6) , 23/6 /2022 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
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					14	1	5	8	4
Total No. of Conservation Interest Species					1	0	0	0	0
Total No. of Native Species					13	1	5	8	4

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 June 23	29.2	79	6
2 June 23	30.7	76	0
3 June 23	30.8	76	0.6
4 June 23	30	81	5.1
5 June 23	29.7	79	4.8
6 June 23	28.4	87	31.1
7 June 23	28.5	88	27.1
8 June 23	29.4	82	2.6
9 June 23	29	83	16.8
10 June 23	29.5	79	0.3
11 June 23	29.2	83	25.4
12 June 23	30.2	77	0.2
13 June 23	29.8	81	31.8
14 June 23	27.7	88	62.8
15 June 23	27.4	91	41.5

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
16 June 23	**26.4**	**92**	**41.7**
17 June 23	**26.2**	**94**	**89.9**
18 June 23	**28**	**89**	**35.8**
19 June 23	**29.1**	**83**	**10.2**
20 June 23	**30**	**80**	**2.3**
21 June 23	**30.2**	**79**	**1.9**
22 June 23	**30.2**	**77**	**0.6**
23 June 23	**30**	**80**	**2.3**
24 June 23	**29.1**	**85**	**8.2**
25 June 23	**29.4**	**83**	**13**
26 June 23	**29.4**	**83**	**11.4**
27 June 23	**30.1**	**80**	**Trace**
28 June 23	**28.8**	**86**	**5.4**
29 June 23	**29.5**	**84**	**0.9**
30 June 23	**29.8**	**82**	**11.2**

* 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)	0	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	1	1	0	0
	General Site Inspection (LVNP)	0	0	0	0

APPENDIX P
SITE AUDIT SUMMARY

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230606
Date	6 June 2023 (Tuesday)
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. 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.:230531), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		6 June 2023
Checked by	Dr. Priscilla Choy		6 June 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230614
Date	14 June 2023 (Wednesday)
Time	16:30 – 17:30

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	
230614-R01	• The CNP was felling off to the ground after adverse weather at Portion 8a.	K 1
	L. Others	
	• Follow-up on previous audit section (Ref. No.:230606), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		15 June 2023
Checked by	Dr. Priscilla Choy		15 June 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230620
Date	20 June 2023 (Tuesday)
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. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
230620-R01	• Accumulation of general refuse should be avoided.	E 1 i
	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.:230614), item no. 230614-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		21 June 2023
Checked by	Dr. Priscilla Choy		21 June 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230627
Date	27 June 2023 (Tuesday)
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. 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.:230620), item no. 230620-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		28 June 2023
Checked by	Dr. Priscilla Choy		28 June 2023

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/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	230609
Date	9 June 2023 (Friday)
Time	10:00 – 10:45

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	
230609-O01	• Debris of sediment were observed fallen off the exposed slope into nearby river. Contractor was urged to enhance water mitigation measure, cover the exposed slope with impervious sheet, to prevent further debris or runoff from entering nearby river.	D 7
	E. Waste / Chemical Management	
230609-R01	• Breaker should be placed on top of tarpaulin sheet to prevent land contamination from potential oil leakage.	E 13
	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.:230524), item 230529-R01 was remarked as 230609-O01. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Adrian Lam		9 June 2023
Checked by	Dr. Priscilla Choy		9 June 2023

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/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	230612
Date	12 June 2023 (Monday)
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	
230612-O01	• Debris of sediment were observed fallen off the exposed slope into nearby river. Contractor was urged to enhance water mitigation measure, cover the exposed slope with impervious sheet, to prevent further debris or runoff from entering nearby river.	D 7
	E. Waste / Chemical Management	
230612-R01	• Breaker should be placed on top of tarpaulin sheet to prevent land contamination from potential oil leakage.	E 13
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
230612-R02	• Retained trees should be carefully protected. Contractor was reminded to set up a proper tree protection zone to prevent construction material to be placed on the roots of retained trees.	G 1
	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.:230609), item 230609-O01 and 230609-R01 were remarked as 230612-O01 and 230612-R01 respectively. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		12 June 2023
Checked by	Dr. Priscilla Choy		12 June 2023

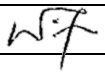
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230621
Date	21 June 2023 (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	
	• 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.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:230612), all major environmental deficiencies were rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam		26 June 2023
Checked by	Dr. Priscilla Choy		26 June 2023

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/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	230628
Date	28 June 2023 (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	
	• 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.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:230621), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		28 June 2023
Checked by	Dr. Priscilla Choy		28 June 2023

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/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	230602
Date	2 June, 2023 (Friday)
Time	10:00 - 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230602-R02	• Dusty stockpiles should be covered with tarpaulin sheets.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230602-O01	• Provide adequate wheel-washing facilities for each vehicle exits, and ensure that vehicles are properly washed before leaving the site.	D 12 (i, ii, iv, v)
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & Visual	
230602-R01	• Remove any construction material from tree protection zone.	F 1
	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.:230522). Follow-up action are needed to be review for item 230522-R01, 230522-R02 and 230522-O01, which were remarked as 230602-R01, 230602-R02 and 230602-O01 respectively.	

	Name	Signature	Date
Recorded by	Adrian Lam		3 June 2023
Checked by	Dr. Priscilla Choy		3 June 2023

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/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	230609
Date	9 June, 2023 (Friday)
Time	11:00 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230609-R01	• Dusty stockpiles should be covered with tarpaulin sheets.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230609-O01	• Provide adequate wheel-washing facilities for each vehicle exits.	D 12 (i, ii, iv, v)
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:230602). Follow-up action are needed to be review for item 230602-R02 and 230602-O01, which were remarked as 230609-R01 and 230609-O01 respectively.	

	Name	Signature	Date
Recorded by	Adrian Lam		9 June 2023
Checked by	Dr. Priscilla Choy		9 June 2023

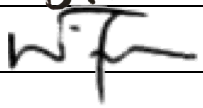
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	230616
Date	16 June, 2023 (Friday)
Time	10:00 - 11:00

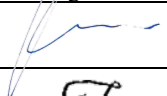
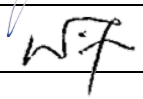
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230616-R01	• Dusty stockpiles should be covered with tarpaulin sheets.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230616-R02	• Provide sand bags to prevent muddy water discharge.	D 3
230616-O01	• Provide adequate wheel-washing facilities for each vehicle exits.	D 12 (i, ii, iv, v)
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:230609), item no. 230609-R01, 230609-O01 were remarked as 230616-R01, 230616-O01. Follow up action is needed to be review.	

	Name	Signature	Date
Recorded by	Him Ng		16 June 2023
Checked by	Dr. Priscilla Choy		16 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230620
Date	20 June, 2023 (Tuesday)
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230620-R01	• Dusty stockpiles should be covered with tarpaulin sheets.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230620-R02	• Provide sand bags to prevent muddy water discharge.	D 3
230620-O01	• Provide adequate wheel-washing facilities for each vehicle exits.	D 12 (i, ii, iv, v)
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:230616), item no. 230616-R01, 230616-O01 were remarked as 230620-R01 and 230620-O01 respectively. Follow up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		21 June 2023
Checked by	Dr. Priscilla Choy		21 June 2023

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/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	230630
Date	30 June, 2023 (Friday)
Time	10:00 - 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230630-R01	• Dusty stockpiles should be covered with tarpaulin sheets.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230630-R02	• Provide sand bags to prevent muddy water discharge.	D 3
230630-O01	• Provide adequate wheel-washing facilities for each vehicle exits.	D 12 (i, ii, iv, v)
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:230620), item no. 230620-R01, 230620-R02 and 230620-O01 were remarked as 230630-R01, 230630-R02 and 230630-O01 respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		30 June 2023
Checked by	Dr. Priscilla Choy		30 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230601
Date	1 June 2023 (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	
230601-R01	• The idle stockpile of dusty materials at Portion K shoule be covered properly with tarpaulin sheet.	A 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230601-R02	• The sandbag bunding should be enhanced.	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.: 230525), item 230525-R01 was remarked as 230601-R01. Follow up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		6 June 2023
Checked by	Dr. Priscilla Choy		6 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230608
Date	8 June 2023 (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	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
230608-R01	• The noise barrier at Bridge F should be fully enclosed.	C 7
	D. Water Quality	
230608-R02	• The sandbag bunding should be enhanced.	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.: 230601), item 230601-RO1 was observed improved/rectified by the Contractor during the site inspection. Item 230601-R02 was remarked as 230608-R02. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		12 June 2023
Checked by	Dr. Priscilla Choy		12 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230614
Date	14 June 2023 (Wednesday)
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	
230614-R01	• The noise barrier at Bridge F should be fully enclosed.	C 7
	D. Water Quality	
230614-R02	• The sandbag bunding should be enhanced.	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.: 230608), item 230608-R01 and 230608-R02 were remarked as 230614-R01 and 230614-R02 respectively. Follow up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		15 June 2023
Checked by	Dr. Priscilla Choy		15 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230621
Date	21 June 2023 (Wednesday)
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. 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.: 230614), item 230614-R01 and 230614-R02 was improved by Contractor	

	Name	Signature	Date
Recorded by	Him Ng		23 June 2023
Checked by	Dr. Priscilla Choy		23 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230629
Date	29 June 2023 (Thursday)
Time	14:00 – 15:15

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	
230629-R01	• The noise barriers at Bridge F should be fully enclosed.	C 7
	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	
230629-R02	• Provide maintenance for 2m high solid barrier at the lower reaches of Siu Hang San Tsuen Stream.	H 3
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 230621), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		29 June 2023
Checked by	Dr. Priscilla Choy		29 June 2023

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	230605
Date	5 June 2023 (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	
230605-R01	• The earth bunding surrounding FW06 should be enhanced.	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.: 230529), no major environmental deficieny was identified during the weekly site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		6 June 2023
Checked by	Dr. Priscilla Choy		6 June 2023

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	230615
Date	15 June 2023 (Thursday)
Time	14:00 – 15:00

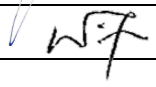
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
230615-R01	• Faded NRMM label at E2-02 should be replaced.	B 24
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• 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.: 230605), item 230605-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		15 June 2023
Checked by	Dr. Priscilla Choy		15 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230619
Date	19 June 2023 (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. 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.: 230615), item 230615-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		21 June 2023
Checked by	Dr. Priscilla Choy		21 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230626
Date	26 June 2023 (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	
230626-R01	• Provide impervious sheeting for dusty stockpile. (Man Young)	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230626-R02	• Enhance the water mitigation measure for E201.	D 4
	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.: 230619), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		27 June 2023
Checked by	Dr. Priscilla Choy		27 June 2023

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/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Weekly Site Inspection Record Summary

Checklist Reference Number	230601
Date	1 June 2023 (Thursday)
Time	13:30 - 14:00

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. 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.: 230525), no environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		6 June 2023
Checked by	Dr. Priscilla Choy		6 June 2023

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/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Weekly Site Inspection Record Summary

Checklist Reference Number	230608
Date	8 June 2023 (Thursday)
Time	13:30 - 14:00

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. 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.: 230601), no environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		12 June 2023
Checked by	Dr. Priscilla Choy		12 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230614
Date	14 June 2023 (Wednesday)
Time	13:30 - 14:00

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. 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.: 230608), no environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		16 June 2023
Checked by	Dr. Priscilla Choy		16 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230621
Date	21 June 2023 (Wednesday)
Time	13:30 - 14:00

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. 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.: 230614), no environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		23 June 2023
Checked by	Dr. Priscilla Choy		23 June 2023

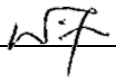
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/06 – Fanling North New Development Area, Phase 1: Reprovisioning of North District Temporary Wholesale Market for Agricultural Products

Weekly Site Inspection Record Summary

Checklist Reference Number	230629
Date	29 June 2023 (Thursday)
Time	13:30 - 14:00

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. 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.: 230621), no environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		29 June 2023
Checked by	Dr. Priscilla Choy		29 June 2023

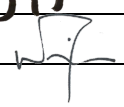
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	230602
Date	2 June 2023 (Friday)
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. 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.: 230525), no major environmental deficiency was observed during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		5 June 2023
Checked by	Dr. Priscilla Choy		5 June 2023

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	230609
Date	9 June 2023 (Friday)
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. 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.: 230602), no major environmental deficiency was observed during site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		12 June 2023
Checked by	Dr. Priscilla Choy		12 June 2023

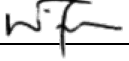
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	230616
Date	16 June 2023 (Friday)
Time	14:00 – 15:00

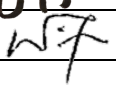
Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	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.: 230609), no major environmental deficiency was observed during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		16 June 2023
Checked by	Dr. Priscilla Choy		16 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230619
Date	19 June 2023 (Monday)
Time	9:30 – 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.: 230616), no major environmental deficiency was observed during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		23 June 2023
Checked by	Dr. Priscilla Choy		23 June 2023

Weekly Site Inspection Record Summary

Checklist Reference Number	230630
Date	30 June 2023 (Friday)
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. 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.: 230619), no major environmental deficiency was observed during site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		3 July 2023
Checked by	Dr. Priscilla Choy		3 July 2023

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	^ ^ ^

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		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	^

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			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	^ # ^

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		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					^ ^ N/A * ^

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		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					^ ^ ^ ^

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		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	#

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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	^

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		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	<u>*Waste Reduction Measures*</u> 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	^ ^

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		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	^ ^

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		• 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	

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		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 ^

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		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	^

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		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

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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

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			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

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					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

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		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 ^ ^

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		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

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		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

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		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	^ ^

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		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.					^ ^ ^ ^ ^

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		• 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.					^

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		• 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

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		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,					

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		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					

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		phase.					
Cultural Heritage (Pre-construction Phase)							
S11.6.1	CH1	<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 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

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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

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		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

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						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

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S11.6.2	CH15	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	^
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

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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

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		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	^

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		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

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		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

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		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

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		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

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		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.					

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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

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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

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		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

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		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	^

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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

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		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

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		• 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.	^

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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

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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.	^

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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	^

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		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	^

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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

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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, 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	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	

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		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

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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

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		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

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				(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	<u>Undertaking Induction Training</u> 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 2023

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	3.628	0.000	2.500	0.000	1.128	6.425	2.904	0.000	0.004	0.000	0.571
February	3.466	0.000	1.869	0.000	1.597	6.967	0.004	0.364	0.003	0.560	0.445
March	2.338	0.000	1.814	0.000	0.524	2.944	0.003	0.449	0.003	0.000	0.572
April	1.260	0.000	1.239	0.000	0.021	0.789	0.004	0.000	0.010	0.720	0.383
May	0.000	0.000	0.000	0.000	0.000	0.103	0.003	0.255	0.003	11.550	0.398
June	0.285	0.000	0.000	0.000	0.285	0.000	0.004	0.390	0.009	10.540	0.191
Sub-total	10.977	0.000	7.422	0.000	3.555	17.228	2.922	1.458	0.032	23.370	2.560
July											
August											
September											
October											
November											
December											
Total	10.977	0.000	7.422	0.000	3.555	17.228	2.922	1.458	0.032	23.370	2.560

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
(7) Total Quantity Generated = a+b+c+d

俊和－群利聯營體
CW－KL JV

Name of Department: CEDD

Appendix F

Contract No.: ND/2019/02
Year **2023**

Waste Flow Table

Month	Total Quantity Generated (a) = (d)+(e)	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	3,700.28	0.00	0.00	3,700.28	0.00	0.00	0.00	0.00	0.00	0.00	126.34
Feb	7,033.84	0.00	0.00	7,033.84	0.00	0.00	0.00	0.12	0.00	0.00	102.69
Mar	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	106.73
Apr	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.63
May	0.00	0.00	0.00	0.00	0.00	2,789.72	0.00	0.00	0.00	0.00	135.98
June	0.00	0.00	0.00	0.00	0.00	2,607.42	0.0017	0.00	0.0068	0.054	89.35
Sub-total	10,734.11	0.00	5,000.00	10,734.11	0.00	5,397.14	0.0017	0.12	0.0068	0.054	595.72
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	10,734.11	0.00	5,000.00	10,734.11	0.00	5,397.14	0.00	0.12	0.01	0.05	595.72

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

Sang Hing – Kuly Joint Venture
Contract No.: ND/2019/03
Kwu Tung North and Fanling North New Development Areas, Phase 1:
Development of Long Valley Nature Park

Name of Department: CEDD

Monthly Summary Waste Flow Table for 2023 (Year)

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	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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
Jan	0.24	0.00	0.00	0.17	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
May	1.57	0.00	0.00	0.34	1.23	0.00	0.00	0.00	0.00	0.00	0.00
Jun	0.11	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total	1.97	0.00	0.00	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	1.97	0.00	0.00	0.50	1.46	0.00	0.00	0.00	0.00	0.00	0.00

*Remark: Imported Fill not taken into account of Total Quantity Generated
#Revised Figure

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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
9.00	2.00	1.00	1.00	6.00	10.00	3.00	3.00	1.00	1.00	3.00

*Remark: Figure to be revised if necessary

Notes:

-1 The performance targets are given in ETWB Technical Circular PS Clause 6(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 total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].

DCK JV

Appendix F
Contract No.: ND/2019/04

Monthly Summary Waste Flow Table for 2023 (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	1,821.54	0.00	0.00	0.00	1648.04	0.00	62.72	0.00	0.00	0.00	0.00	110.78
Feb	5,111.83	0.00	0.00	1,432.80	3,268.73	289.95	0.0006	0.0668	0.0007	0.00	0.00	120.28
Mar	16,696.38	0.00	0.00	11,792.39	4,675.20	0.00	0.00	0.04	0.00	0.00	0.00	228.75
Apr	10,098.42	0.00	0.00	7,469.40	2,562.44	0.00	0.00	0.00	0.00	0.00	0.00	66.58
May	16,517.90	0.00	0.00	8,880.68	7,135.46	421.66	0.00	0.00	0.00	0.00	0.00	80.10
June	3,040.85	0.00	0.00	748.07	1,119.73	1,082.57	0.0009	0.0781	0.0014	0.0055	0.00	90.39
Sub-total	53,286.91	0.00	0.00	30,323.34	20,409.60	1,794.18	62.72	0.18	0.002	0.006	0.00	696.88
July												
Aug												
Sept												
Oct												
Nov												
Dec												
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	53,286.91	0.00	0.00	30,323.34	20,409.60	1,794.18	62.72	0.18	0.00	0.01	0.00	696.88

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)
	141,782.30	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 2023 (year)

Name of Person completing the record: Louise Poon (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-23	1.270	0.000	0.546	0.000	0.724	0.000	4.126	0.275	0.005	0.000	0.000	46.650
Feb-23	2.094	0.000	0.624	0.000	1.470	0.000	0.000	0.608	0.000	2.660	0.000	79.010
Mar-23	2.298	0.000	0.348	0.000	1.950	0.000	0.090	1.302	0.098	1.860	0.000	91.690
Apr-23	2.236	0.000	0.276	0.000	1.960	0.000	0.021	0.699	0.030	1.470	0.000	55.990
May-23	2.752	0.000	0.750	0.000	2.002	0.000	0.006	0.448	0.006	1.610	0.000	71.310
Jun-23	1.964	0.000	0.174	0.000	1.790	0.000	0.034	1.157	0.046	7.890	0.000	87.340
Sub-total	12.614	0.000	2.718	0.000	9.896	0.000	4.277	4.489	0.185	15.490	0.000	431.990
Jul-23												
Aug-23												
Sep-23												
Oct-23												
Nov-23												
Dec-23												
Total in 2023	12.614	0.000	2.718	0.000	9.896	0.000	4.277	4.489	0.185	15.490	0.000	431.990
Total of the Project since 2020	105.956	0.000	13.437	2.857	89.662	5.110	141.981	13.921	4.005	798.303	24.882	3520.900

*Approx. estimation for each dump truck is 6m3/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 105.956 (in '000m3) (a) = (b)+ (c)+(d)+(e)

Monthly Summary Waste Flow Table for _2023__ (year)

Name of Person completing the record: KM LUI (EO)

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	0.018
Feb	0	0	0	0	0	1.400	0	0	0	0	0.013
Mar	0.212	0	0	0	0.212	11.711	0	0	0.001	0	0.028
Apr	0	0	0	0	0	7.340	0	0	0	0	0.009
May	0	0	0	0	0	6.492	0	0	0	0	0.015
Jun	0	0	0	0	0	0.439	0	0	0	0	0.018
Sub-total	0.212	0.000	0.000	0.000	0.212	27.382	0.000	0.000	0.001	0.000	0.101
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	5.521	0.000	1.514	0.000	4.007	177.429	0.017	1.763	0.026	212.240	5.750

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

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			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

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			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

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			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

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				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

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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

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			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

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				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

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				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

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			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

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				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

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			"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		

APPENDIX T
SUMMARY OF SUCCESSFUL PROSECUTION

Appendix T - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up
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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	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.	Submitted 8 October 2022	Comments by EPD on 20 Dec 2022
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.	NA	Submitted justification 3 October 2022 PlanD comment 13 October 2022
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	
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 <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	Submitted 8 October 2022	Comments by EPD on 20 December 2022
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	Deposited 11 August 2022	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	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	Submitted 11 September 2020	EPD Approved 8 October 2020
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 <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	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		**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 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	