

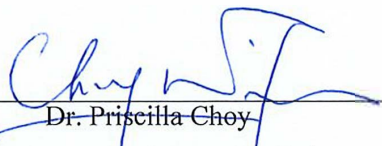
Civil Engineering and Development Department

**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 January 2024**

(Version 1.1)

Certified By


Dr. Priscilla Choy
(Environmental Team Leader)

REMARKS:

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

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

WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong
Tel: (852) 2898 7388 Fax: (852) 2898 7076
Website: www.wellab.com.hk

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

Attention: Mr. Ryan Chau

Your Reference

Our Reference

EC/TC/hc/414202/L0220

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

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

Agreement No. CE 33/2019 (EP)

Independent Environmental Checker for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas – Investigation

Monthly Environmental Monitoring and Audit Report No. 51 (January 2024)

21 February 2024

BY EMAIL

Dear Sir,

We refer to email of 19 February 2024 attaching the Monthly Environmental Monitoring and Audit Report No. 51 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



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

c.c.

AECOM
Wellab Ltd.

Mr. Chris Ho
Dr. Priscilla Choy/
Ms. Ivy Tam

chris.ho@aecom.com
priscilla.choy@wellab.com.hk
ivy.tam@wellab.com.hk

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EXECUTIVE SUMMARY**Introduction**

1. This is the 51st 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 January 2024.
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 Suspended Particulates Monitoring (TSP)	FLN-DMS1	N/A	N/A	3, 9, 15, 19, 25 and 31 Jan 24	3, 9, 15, 19, 25 and 31 Jan 24	N/A	N/A	N/A	
	FLN-DMS3			N/A	N/A	3, 9, 15, 19, 25 and 31 Jan 24			
	FLN-DMS5			2, 8, 12, 18, 24 and 30 Jan 24	2, 8, 12, 18, 24 and 30 Jan 24	N/A			
	KTN-DMS4(B)			2, 8, 12, 18, 24 and 30 Jan 24	2, 8, 12, 18, 24 and 30 Jan 24				N/A
24-hr TSP Monitoring	FLN-DMS1	N/A	N/A	2, 8, 12, 18, 24 and 30 Jan 24	2, 8, 12, 18, 24 and 30 Jan 24	N/A	N/A	N/A	
	FLN-DMS3			N/A	N/A	2, 8, 12, 18, 24 and 30 Jan 24			
	FLN-DMS5A			2, 8, 12, 18, 24 and 30 Jan 24	2, 8, 12, 18, 24 and 30 Jan 24	N/A			
	KTN-DMS4(B)			2, 8, 12, 18, 24 and 30 Jan 24	2, 8, 12, 18, 24 and 30 Jan 24				N/A
Noise Monitoring	CP-FLN-NMS1	N/A			3, 9, 15, 25 and 31 Jan 24			N/A	
	CP-FLN-NMS2	N/A				3, 9, 15, 25 and 31 Jan 24	N/A		
	CP-KTN-NMS2	2, 8, 18, 24 and 30 Jan 24	N/A	N/A					
	CP-KTN-NMS3								
	CP-KTN-NMS5								
	CP-KTN-NMS6	N/A	2, 8, 18, 24 and 30 Jan 24						
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, 3, 8, 10, 15, 18, 22, 24, 29 and 30 Jan 2024	3, 8, 18, 24 and 30 Jan 2024	N/A	N/A	N/A	
	Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	

EM&A Activities	Monitoring Station (s)	Works Contracts						
		ND/2019/01	ND/2019/02	ND/2019/03	ND/2019/04	ND/2019/05	ND/2019/06	ND/2019/07
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	25 and 31 Jan 24	25 and 31 Jan 24	25 Jan 24	25 Jan 24	25 Jan 24	N/A*	N/A*
Egretty Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
24-hr RSP (Ambient Arsenic) Monitoring for Land Contamination		2, 8, 12, 18, 24 and 30 Jan 24	N/A	2, 8, 12, 18, 24 and 30 Jan 24	N/A	N/A	N/A	N/A
Water Quality Monitoring		N/A	2, 4, 6, 8, 10, 12, 15, 17, 19, 22, 24, 26, 29 and 31 Jan 24	N/A	2, 4, 6, 8, 10, 12, 15, 17, 19, 22, 24, 26, 29 and 31 Jan 24	N/A	N/A	N/A
Landfill Gas Monitoring		30 Jan 24	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Environmental Site Inspection		2, 9, 17, 23 and 30 Jan 24	3, 10, 17, 24 and 31 Jan 24	5, 12, 16 and 23 Jan 24	4, 11, 15 and 25 Jan 24	2, 8, 18, 22 and 29 Jan 24	NIL	5, 12, 19 and 26 Jan 24

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 exceeds 500m, 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)	2	0	0	0	0	0
Water Quality	DO	0	0	0	0	0	0
	Turbidity	0	0	0	0	0	0
	SS	0	0	0	0	0	0
	Arsenic	0	0	0	0	0	0
Landfill Gas	O ₂	0	0	0	0	0	0
	CH ₄						
	CO ₂						
Cultural heritage	Built Heritage Monitoring	0	0	0	0	0	0
Ecological Monitoring	Avifauna	0	0	0	0	0	0
	Non-aquatic fauna	3	3	0	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. Two (2) Action Level exceedances were recorded. No Limit Level exceedance was recorded.

Water Quality

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

Land Contamination

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

Landfill Gas Monitoring

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

Built Heritage Monitoring

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

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month.
12. Three (3) action level exceedance and three (3) limit level exceedance for non-aquatic fauna were recorded at T1, T3 & T6. The exceedance were considered non-project related, as large proportion of vegetative habitat along T3 were observed either removed and tarmacked as haul road by construction works outside of project, first reported in the Monthly Monitoring Report in December 2021. Cold weather throughout the month and during the survey might also have influenced number of species of odonates recorded. In addition, necessary Ecological mitigation measure were provided by all nearby project-related sites. No evidence to suggest that the exceedance was related to project activities.
13. The ecological monitoring result in the Reporting Month is shown in **Appendix L**.

Complaint Log

14. Two (2) environmental complaints were received in the reporting month. The complaint regarding construction noise near On Lok Garden is for ND/2019/05, which was referred by EPD on 9 Jan 2024 for the complaint case received by EPD on 5 Jan 2024.
15. The other complaint regarding construction noise near Ma Sik Road is for ND/2019/04, which was referred by EPD on 10 Jan 2024 for the complaint case received by EPD on 5 Jan 2024. The investigation of both complaints were completed in January 2024 and will be reported in this report.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

17. 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

18. 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 (February to April 2024)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works and sheet piles in Portion 1a (b) Site formation, erection of hoarding and construction of noise barrier in Portion 1c (c) Sheet Piling, Site formation work, construction of subway, road works and drainage works in Portion 2 (d) Site formation, site clearance, excavation, slope work, drainage and watermain works in Portion 3 (e) Watermain works, excavation, backfilling, road works and pipe jacking in Portion 5 (f) Drainage works, backfilling, road works and watermain works in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Sheet piling, excavation, stockpile of soil, drainage works and watermain work in Portion 7 (i) Construction of retaining wall, RC construction of fresh water reservoir, excavation at WSD's maintenance access, backfilling works, drainage works and pipe pile wall installation in Portion 8a (j) Trenchless work, excavation, watermain works and ground treatment in Portion 8b (k) Sheet piling, excavation, road works, drainage works and watermain works in Portion 9b (l) Removal of existing structure in Portion 11b (m) Site clearance, tree felling, removal of existing structure, site formation and stockpile of soil in Portion 13
ND/2019/02	<ul style="list-style-type: none"> (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	<ul style="list-style-type: none"> (a) Portion 2 to Portion 20C <ul style="list-style-type: none"> - 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 Dry Weather Flow Interception (DWFI) - Construction of Car Park and Farmer's Forum
ND/2019/04	<ul style="list-style-type: none"> (a) Tree Pruning (b) Pile Cap (c) Back Filling (d) Excavation (e) Grouting (f) Sheet Piling (g) Road works (h) Formwork and Scaffolding Erection (i) Rebar Fixing (j) Bore pile (k) ELS
ND/2019/05	<ul style="list-style-type: none"> (a) <u>North Team Works</u> <ul style="list-style-type: none"> - Backfilling and drainage work at C4-02 & C4-01. - Backfilling at C3-03, C3-04, portion II & C2-01. - Haul Road to bridge deck In On Lok Garden.

Contract No.	Site Activities (February to April 2024)
	<ul style="list-style-type: none"> - Construction of remaining abutment wall near portal B2-01. - Construction of FW 53. - Water works & drainage works at Jockey Club Rd. - Road works of northbound of Jockey Club Rd & ducting works at central median and across Jockey Club Rd. - Sampling of existing pavement in southbound of Jockey Club Rd for CSD. - Construction of new box culvert extension & retaining wall & slope works at Tong Hang Tsuen. - Drainage works –DN 900 at On Kui Street near B1. - Cross head construction at B2-01, B2-02 & B2-03. - Segment fabrication for bridge D2, E4 - Segments erection by LG at bridges C2, C1 - SOP construction at D2-01 - Parapet skin fabrication and parapet construction - Segment fabrication for bridge B2. <p>(b) <u>South Team Works</u></p> <ul style="list-style-type: none"> - TWSRW – Road work and UUs laying (Section P800 CH 450 to 600). - TWSRW – Construction of lower berm and Hydroseeding at FS04. - TWSRW –Gas (IPA400 and HP600) diversion work - TWSRW – 450mm Freshwater main 1st stage diversion - TWSRW – Construction of D2-04M pile cap. - HKY FB (East) – Installation of floor tiles and railing. - HKY FB (West) – Construction of LT2 pile cap - E3-04a, E304b, E4-01 and E4-02 – cap construction - E305M Pier Head construction - NB109 – Bay 13~20 ELS works - NB69 – Bay 2~8 ELS works - NB110 – Bay 6~7 ELS works - NB29 U-through – Bay 9~10 footing construction - Retaining Wall FW02 - Removal Sign Gantry DS64 <p>(c) <u>Form Traveler</u></p> <ul style="list-style-type: none"> - E3-01 – construction 6th pair - E2-02 –FT erection - D2-02 – construction 10th to 11th pair - D2-03 – construction 5th pair to 8th pair - E2-01 - construction 3rd pair to 7th pair
ND/2019/06	The construction phase has been completed and handed over to AFCD since 4 April 2022.
ND/2019/07	<ul style="list-style-type: none"> (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 2, 3, 4 (g) Construction of noise barrier at Portion 4 and 5 (h) Waterworks at Portion 1, 2 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 51st EM&A Report which summarises the key findings of the EM&A programme in January 2024.

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** - summarises 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 egret sites in the FLN NDA and enhancement works to an existing egret 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 **2.1b**.

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 egretty sites and enhance the existing egretty 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 3,600m ³ /day	Figure 22

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

- 2.4 The site boundary of the Project and all Works Contracts are shown in **Drawing No. 1**.
- 2.5 The required submissions and submission status under Environmental Permits are shown in **Appendix U**.
- 2.6 The site layout plans under concerned Environmental Permits are shown in Figures 12 - 22.

Project Organization

- 2.7 Different parties with different levels of involvement in the Project organisation include:
- Project Proponent – Civil Engineering and Development Department (CEDD)
 - *Supervisor / Supervisor's* Representative – AECOM Asia Co. Ltd.
 - Environmental Team (ET) – Wellab Limited
 - Independent Environmental Checker (IEC) – Mott MacDonald Hong Kong Ltd (MottMac)
- 2.8 The names and contact numbers of key personnel are summarised in **Table 2.2**.

Table 2.2 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Ryan Chau	3797 5387	3547 1658
<i>Supervisor / Supervisor's Representative</i> (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
<u>Contract No. ND/2019/01</u> Contractor (Build King – Richwell Engineering Joint Venture)	Site Agent	Mr. Ivan Leung	9640 8340	--
	Environmental Officer	Mr. Edward Tam	9287 8270	
<u>Contract No. ND/2019/02</u> Contractor (Chun Wo – Kwan Lee Joint Venture.)	Site Agent	Mr. Andy Chan	3485 9780	--
	Environmental Officer	TBC	--	
<u>Contract No. ND/2019/03</u> Contractor (Sang Hing Kuly Joint Venture)	Site Agent	Mr. Tang Wing Kai	9300 7037	--
	Environmental Officer	Mr. Ken Cheung	9803 5297	
<u>Contract No. ND/2019/04</u> Contractor (Daewoo – Chun Wo – Kwan Lee Joint Venture)	Site Agent	Mr. Eric Wu	9786 8630	--
	Environmental Officer	Mr. Sam Lam	6178 3179	
<u>Contract No. ND/2019/05</u> Contractor (CRCC – Paul Y. Joint Venture)	Site Agent	Mr. Darwin Lo	9467 5891	--
	Environmental Manager	Mr. Pan Fong	9436 9435	
	Environmental Officer	Mr. Kevin Cheung	6117 1344	
<u>Contract No. ND/2019/06</u> Contractor (New Concepts Engineering Development Ltd.)	Project Manager	Mr. Joe Cheng	9861 0060	--
	Environmental Officer	Mr. Alex Choy	6360 3236	
<u>Contract No. ND/2019/07</u> Contractor (China Road and Bridge Corporation)	Site Agent	Mr. Mac Chow	9169 9567	--
	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 (January 2024)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works and sheet piles in Portion 1a (b) Site formation and erection of hoarding in Portion 1c (c) Sheet piling, site clearance, site formation, construction of subway, drainage works and road works in Portion 2 (d) Drainage works in Portion 3 (e) Site formation and excavation in Portion 5 (f) Backfilling, drainage and watermain works in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Excavation and drainage works in Portion 7 (i) RC construction of fresh water reservoir, drainage works, backfilling works and construction of receiving pit in Portion 8a (j) Trenchless work and watermain construction in Portion 8b (k) Sheet piling, excavation, drainage and watermain works in Portion 9b (l) Removal of existing structure in Portion 11b (m) Site clearance, removal of existing structures, site formation and erection of hoarding in Portion 13
ND/2019/02	<ul style="list-style-type: none"> (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	<p>Portion 2 to Portion 20C</p> <ul style="list-style-type: none"> - 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) - Construction of Car Park and Farmer's Forum
ND/2019/04	<ul style="list-style-type: none"> (a) Tree Pruning (b) Pile Cap (c) Back Filling (d) Excavation (e) Grouting (f) Sheet Piling (g) Road works (h) Formwork and Scaffolding Erection (i) Rebar Fixing (j) Bore pile (k) ELS

Contract No.	Site Activities (January 2024)
ND/2019/05	<p>(a) <u>South Team</u></p> <ul style="list-style-type: none"> - E3-05M – Pier head construction in progress. - E3-04a – Column construction in progress. - E3-04b – ELS in progress. Unforeseen obstruction encountered and removed. - E4-01 – ELS in progress. - E4-02 – ELS pipe pile wall in progress. Unforeseen obstruction encountered. - D2-04M – Bored Piling completed on 22 Nov 2023. - FS04 – Raking drain completed. Middle berm and U-channel construction in progress. - Works in TWSRE <ul style="list-style-type: none"> A. BBI cover walkway (Steelwork) – 1st stage was completed. B. HKY Footbridge/Staircase – Temporarily opened to public. C. BBI Toilet – Base slab was casted. Wall construction is in progress. D. Connecting Road L201 to D300 – Drainage and Kerb construction are in progress. - Works in TWSRW <ul style="list-style-type: none"> A. TWRSW Stage 2 TTA completed on 22 Nov 2023. B. FS04 – raking drain completed. Middle berm and U-channel construction in progress. C. 11kv cable laying (near HKY entrance) in progress. D. Drainage work – Laying 2x1200Dia Pipes to Manhole (FL9110) in progress. E. Sewerage work – Laying 600Dia pipes at FW06 is in progress. F. Gas Pipe laying (IPA400/HP600 – near HKY entrance) in progress. G. Fresh watermain diversion in progress. Connection works to be carried out by WSD in Late Jan 2024. H. Lift LT02 – Piling works completed. Proof drilling completed. Loading tests are in progress. - NB109 <ul style="list-style-type: none"> A. Bay 5, 6, 7, 8 – Top wall in progress B. Bay 9, 10, 11, 12 – Bottom wall completed. Backfilling in progress. C. Bay 13 Site Clearance completed. ELS in progress. - NB69 <ul style="list-style-type: none"> A. Bay 5, Bay 6 – Top Wall in progress. B. Bay 2, Bay 3 – ELS is in progress. Unforeseen obstruction encountered and removed. C. Bay 6, Bay 7, Bay 8 – ELS is in progress. Uncharted 150 dia. Watermain encountered. - NB110 <ul style="list-style-type: none"> A. Bay 3 to 5 - Backfilling reached formation. Temporary FVMS is installed for removal of Sign Gantry DS64. B. Bay 8 - Wall was completed on 10 Nov 2023. C. Bay 9 – Footing completed. Wall in progress. - NB 29 <ul style="list-style-type: none"> A. Trial Panel for wall is completed. B. 2 nos Plate Load Test were carried out and completed. C. Bay 10, 11 – Footing is in progress. <p>(b) <u>North Team</u></p> <ul style="list-style-type: none"> - C2-01 crosshead completed. - Side formwork for C1-02 portal beam construction completed. - Truss erection for C1-01 MJ portal construction in completed.

Contract No.	Site Activities (January 2024)
	<ul style="list-style-type: none"> - Falsework erection for B2-01, B2-02 & B2-03 cross head construction in progress. - Sheet pile extraction of B1-Abutment wall-phase 2 completed. - Construction of remaining abutment wall near B1-02 portal beam was in progress. - Backfilling & extraction of sheet pile at C2-02 completed. - Backfilling at C4-02, C4-01a & C4-01b were in progress - Permanent reinstatement of footpath near C4-01a was in progress. - JCR: Construction of new central median was in progress. - JCR: Construction of pipe support for DN 150 exposed pipe & trench excavation for WSD were in progress. - JCR & Tong Hang Village J/O improvement works: Construction of box-culvert & extension head wall was in progress. - On Kui Street Construction of manhole & associated DN 900 drain pipe were in progress <p>(c) <u>Bridges and Structures</u></p> <ul style="list-style-type: none"> - Total 782 segments were casted in Huizhou casting yard. - Total 524 segments were delivered to site, and total 492 segments erected. - C2 03 to C2 04 end span segment erection by LG in progress. - Fabrication of steel support for Bridge B1 completed at Zhengzhou. - Erection of Bridge B1 steel platform in progress. - The fabrication of 2 sets of steel molds for Bridge B2 precast segment in progress. - Fabrication of parapet skin commenced at ShenZhen casting yard, total 120 pieces parapet skin fabricated. - Construction of D2 01 SOP in progress. <p>(d) <u>Form Traveler</u></p> <ul style="list-style-type: none"> - Form traveler rebar fixing for 06th pair segment at E3 01 in progress. - Form traveler rebar fixing for 09th pair segment at D2 02 in progress. - Form traveler rebar fixing for 05th pair segment at D2 03 in progress. - Form traveler rebar fixing for 03rd pair segment at E2 02 in progress. - FT01 dismantling at E2 01 completed. - Completed concreting E2 E2 01 E2 02 S01, E2 E2 01 E1 04 01 S01. E2 E2 01 E2 02 S02, E2 E2 01 E1 04 01 S02. - Completed concreting D2 D2 02 D2 03 S07, D2 D2 02 D2 01 S07, D2 D2 02 D2 03 S08, D2 D2 02 D2 01 S08. - Completed concreting D2 D2 03 D2 04 S03, D2 D2 03 D2 02 S03, D2 D2 03 D2 04 S04, D2 D2 03 D2 02 S04. - Completed concreting E3 E3 01 E2 03 S04 & E3 E3 01 E3 02 S04, E3 E3 01 E2 03 S05 & E3 E3 01 E3 02 S05.
ND/2019/06	The construction phase was completed and handed over to AFCD since 4 April 2022.
ND/2019/07	<ul style="list-style-type: none"> (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 2, 3, 4 and 5 (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, 2 and 4

Construction Programme

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

Status of Environmental Licences, Notifications and Permits

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

Table 2.4 Status of Environmental Licences, Notifications and Permits

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
ND/2019/01	EP-466/2013/A	21/11/2013	N/A	Valid
	EP-467/2013/A	27/01/2017	N/A	Valid
	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-470/2013/A	21/11/2013	N/A	Valid
ND/2019/02	EP-469/2013	21/11/2013	N/A	Valid
ND/2019/03	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/04	EP/473/2013/A	27/01/2017	N/A	Valid
	EP/546/2017	16/11/2017	N/A	Valid
ND/2019/05	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/06	EP-475/2013/A	13/01/2017	N/A	Valid
Construction Noise Permit (CNP)				
ND/2019/01	GW-RN1057-23	13/10/2023	12/01/2024	Expired in reporting month
	GW-RN0840-23	01/09/2023	29/02/2024	Valid
	GW-RN0877-23	01/09/2023	29/02/2024	Valid
	GW-RN0997-23	01/10/2023	31/03/2024	Valid
	GW-RN1224-23	21/11/2023	20/02/2024	Valid
	GW-RN1146-23	19/11/2023	18/05/2024	Valid
	GW-RN1329-23	20/12/2023	28/02/2024	Valid
	GW-RN1330-23	20/12/2023	19/03/2024	Valid
	GW-RN1235-23	01/12/2023	29/02/2024	Valid
	GW-RN1328-23	25/12/2023	24/03/2024	Valid
	GW-RN0053-24	21/01/2024	20/04/2024	Valid
	GW-RN0073-24	29/01/2024	28/04/2024	Valid
ND/2019/02	GW-RN1178-23	10/11/2023	09/02/2024	Valid
	GW-RN1163-23	08/11/2023	07/04/2024	Valid
	GW-RN1400-23	01/01/2024	31/03/2024	Valid
ND/2019/03	GW-RN0733-23	01/09/2023	29/02/2024	Valid
ND/2019/04	GW-RN1039-23	08/10/2023	07/01/2024	Expired in reporting month
	GW-RN1408-23	29/12/2023	28/03/2024	Valid
	GW-RN0020-24	08/01/2024	07/04/2024	Valid
	GW-RN0051-24	26/01/2024	25/03/2024	Valid
ND/2019/05	GW-RN1138-23	09/11/2023	31/01/2024	Expired in reporting month
	GW-RN0897-23	01/09/2023	29/02/2024	Valid
	GW-RN1248-23	01/12/2023	29/02/2024	Valid
	GW-RN1334-23	13/12/2023	29/02/2024	Valid
	GW-RN1366-23	01/01/2024	31/03/2024	Valid
	GW-RN1368-23	27/12/2023	31/01/2024	Expired in reporting month
	GW-RN1367-23	29/12/2023	28/02/2024	Valid
	GW-RN1369-23	27/12/2023	26/03/2024	Valid
	GW-RN1414-23	01/01/2024	31/01/2024	Expired in reporting month
GW-RN1415-23	01/01/2024	31/03/2024	Valid	

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

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
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	9
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 $\pm 3^{\circ}\text{C}$; the relative humidity (RH) was $< 50\%$ and not variable by more than $\pm 5\%$. 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 m³/min. and 1.4 m³/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 $\pm 3^\circ\text{C}$; the RH should be $< 50\%$ and did not vary by more than $\pm 5\%$. 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 ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
FLN-DMS1	89.8	54.4 – 125.2	303	500
FLN-DMS3	89.9	56.2 – 114.1	301	500
FLN-DMS5	85.8	42.1 – 125.6	279	500
KTN-DMS4(B)	86.2	47.0 – 162.5	297	500

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

Monitoring Station	Concentration ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
FLN-DMS1	93.0	54.8 – 129.3	150	260
FLN-DMS3	73.9	43.0 – 95.5	165	260
FLN-DMS5A	89.1	70.5 – 113.9	153	260
KTN-DMS4(B)	77.2	46.1 – 104.1	192	260

- 3.23 All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.
- 3.24 According to our field observations, the major dust sources identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.6**:

Table 3.6 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Sources
FLN DMS1	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	4
Acoustical Calibrator	SVANTEK	SV30A	3
	Brüel & Kjær	4231	1

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]	$L_{10}(30 \text{ min.}) \text{ dB(A)}$ $L_{90}(30 \text{ min.}) \text{ dB(A)}$ $L_{eq}(30 \text{ min.}) \text{ dB(A)}$ (as six consecutive $L_{eq, 5 \text{ min}}$ 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				Façade
ND/2019/02	CP-KTN-NMS6				

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 : $L_{eq}(30 \text{ min.}) \text{ dB(A)}$
(as six consecutive $L_{eq, 5\text{min}}$ readings) during non-restricted hours (i.e. 0700-1900 hours on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment;
- During the monitoring period, the values of L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were also recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation records during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

- 4.5 The microphone heads of the sound level meters and calibrators were cleaned with a soft cloth at quarterly intervals.
- 4.6 The sound level meters and calibrators were checked and calibrated at yearly intervals.
- 4.7 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

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

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

Contract No.	Monitoring Station	Noise Level Leq (30 min), dB(A)	Baseline Level, dB(A)	Limit Level, dB(A)
ND/2019/06	CP-FLN-NMS1 ^[1]	66.3 – 67.8	69.9	75
ND/2019/04				
ND/2019/05	CP-FLN-NMS2 ^[2]	54.2 – 65.3	59.6	
ND/2019/01	CP-KTN-NMS2 ^[3]	53.0 – 61.9	58.6	
	CP-KTN-NMS3 ^[4]	47.1 – 53.6	51.6	
ND/2019/01	CP-KTN-NMS5	52.2 – 58.2	57.2	
ND/2019/02	CP-KTN-NMS6	56.5 – 59.2	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. Two complaints on construction noise were received during the reporting month, therefore Two Action Level exceedances were recorded. No Limit Level exceedances 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
<ul style="list-style-type: none"> Temperature(°C) pH(pH unit) turbidity (NTU) water depth (m) salinity (ppt) DO (mg/L and % of saturation) SS (mg/L) Ammonia Nitrogen (NH₃-N) (mg NH₃-N/L) Unionized Ammonia (UIA) (mg/L) Nitrate-nitrogen (NO₃-N) (mg NO₃⁻-N/L) Ortho-phosphate (PO₄) (mg PO₄³⁻-P/L) 	<ul style="list-style-type: none"> 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 EquipmentInstrumentation

- 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°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	2

Monitoring Parameters and Frequency

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

Table 5.4 Additional Water Quality Monitoring Parameters and Frequency

Monitoring Station(s)		Parameters, unit	Depth	Frequency
River Beas	SYR-CS1 SYR-IS1	<ul style="list-style-type: none"> • 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) 	<ul style="list-style-type: none"> • 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
		<ul style="list-style-type: none"> • 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°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 10-3.1 Selection, Preparation and Extraction of Filter Material, Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999; and
 - Compendium Method 10-3.5 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 m³/min. and 1.4 m³/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 $\pm 3^{\circ}\text{C}$; the relative humidity (RH) was $< 50\%$ and did not vary by more than $\pm 5\%$. 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 $\pm 3^{\circ}\text{C}$; the relative humidity (RH) was $< 50\%$ and not variable by more than $\pm 5\%$. 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)
02/01/2024	KTN-DMS4(A)	5.84	9.36	11.7
08/01/2024		6.11		
12/01/2024		6.25		
18/01/2024		5.85		
24/01/2024		6.20		
30/01/2024		6.04		

- 6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, 1060.8m³ of arsenic soil transported to soil treatment plant and 542.1m³ 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	Portable Biogas Analyzer IRCD4 (Serial No. M230814007)	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, no construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works. The location of the construction vibration monitoring stations was summarised in **Table 8.1** and shown in **Appendix K**.

Table 8.1 Location of Construction Vibration Monitoring

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

Monitoring Parameters and Frequency

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

Table 8.2 Vibration Monitoring Plan

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

Remark:

[1] Baseline condition survey was conducted for built heritage features at G202, G203, G303, G308, HKT03 and KT57 under EP-468/2013/A, also HFL08, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL31 and FL33 under ND/2019/04, and HFL05, FL02, FL04, FL24, FL27 and FL36 under ND/2019/05 for EP-473/2013/A. As G202, G203, G303, G308, HKT03, KT57, HFL05, HFL08, FL02, FL04, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL24, FL27, FL31, FL33 and FL36 were not within the assessment area of the related construction work, no construction vibration monitoring was conducted for the built heritage in the reporting month.

- 8.5 The construction vibration monitoring is planned to be conducted throughout each event of the pile driving operation on 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 No copies of calibration certificates of the monitoring equipment employed by the Contractor of the construction vibration monitoring are attached in **Appendix C** since no vibration monitoring was conducted in the reporting month.

Results and Observations

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

Event and Action Plan

- 8.8 **Table 8.3** summarises the vibration limits for construction vibration monitoring for surveyed cultural heritage.

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, 3, 8, 10, 15, 18, 22, 24, 29 and 30 January 2024

Date of night-time monitoring: 2 and 15 January 2024

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, 80 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 25 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices L1o and L1p** 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	63.2	31	21	15
Mean abundance of <i>Ardeola bacchus</i> using Ng Tung River, Sheung Yue River and Shek Sheung River	18.2	10	7	5
Mean Abundance of Bird recorded in LVNP	1328.8	844	591	422
Mean Abundance of <i>Ardeola bacchus</i> recorded in LVNP	14.6	12	9	6
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: <i>Ardea alba</i> , <i>Ardea cinerea</i> , <i>Egretta eulophotes</i> , <i>Egretta garzetta</i> , <i>Ardea intermedia</i> and <i>Phalacrocorax carbo</i>				

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

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

Monitoring Requirements and Protocol

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

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

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

Monitoring Frequency

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

Monitoring Location

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

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

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

Monitoring Parameters

- 9.25 The monitoring parameters and survey methodology for each monitoring station are described below:
- Species composition
 - Abundance
 - Distribution for invertebrates and fish fauna
 - Species of conservation significance would be specified
- 9.26 Other information at the time of survey such as weather conditions and noticeable natural or anthropogenic activities were recorded.

Monitoring Status

- 9.27 According to the Updated EM&A Manual, quantitative aquatic fauna replicate surveys of stream fauna is required to be carried out on monthly basis during wet season. During the reporting Month, no aquatic fauna replicate surveys was carried out.

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

Monitoring Requirements and Protocol

- 9.28 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.
- 9.29 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

- 9.30 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 from the field signs observed.

- 9.31 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)

- 9.32 Both day-time and night-time amphibian surveys should be conducted whenever possible following or during periods of rainfall, focusing on areas suitable for amphibians (e.g. forest, shrublands, grasslands, streams, ponds, marshes, etc.). Calling amphibians should be recorded, supplemented by visual observation of eggs, tadpoles, adult frogs, and toads.
- 9.33 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)

- 9.34 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

- 9.35 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: 25, 31 January 2024

Monitoring Location

- 9.36 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.

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

Monitoring Parameters

9.38 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

9.39 During the survey, a total of 5 mammal species were recorded from transects. Two (2) species of conservation importance were recorded, namely *Cynopterus sphinx* and *Pipistrellus abramus*.

9.40 Domestic dogs, *Canis lupus familiaris*, were commonly found at transect T1, T3, T4, T5 and T6, where associated with human settlements, whilst domestic cats, *Felis catus*, was found at T1.

9.41 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).

9.42 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).

9.43 *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).

9.44 Bat species, *Pipistrellus abramus* were recorded in flight at nighttime at transect T1, T3, T4 and T6.

Herpetofauna (Amphibians and Reptiles)

9.45 Among the transects, a total of 4 herpetofauna species were observed. Species including toads and geckos were recorded near wetland habitats and watercourse. Transects T1 & T5 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

9.46 During the insect survey, a total of 14 butterfly species were recorded from transects. One (1) species of butterfly recorded was of particular conservation interest, namely *Pieris rapae*. Transect T5 had recorded the highest butterfly diversity among all transects.

9.47 1 species of odonata were recorded in the reporting month. Transect T5 had recorded the highest odonatan diversity among all transect.

9.48 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**.

9.49 **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	2	1	NA	NA
T3	1	1	NA	NA
T4	2	1	NA	NA
T5	0	0	NA	NA
T6	2	1	NA	NA

9.50 **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	2	2	NA	1
T3	0	1	NA	NA
T4	0	0	NA	NA
T5	2	2	NA	1
T6	1	1	NA	NA

9.51 **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	5	3	2	1
T3	3	1	NA	NA
T4	1	2	NA	1
T5	10	1	NA	NA
T6	2	3	2	1

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

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

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
T1	0	2	NA	1
T3	0	3	2	1
T4	0	1	NA	NA
T5	1	2	NA	1
T6	0	2	NA	1

9.53 Three (3) Action Level exceedances and three (3) Limit Level exceedance was recorded in non-aquatic fauna monitoring during the reporting month.

9.54 For the monitoring conducted on 25 January 2024 at Transect T5, a section of the transect route was found located within a private property and hence not accessible. The inaccessible part are shown in **Photo 1** below. The adjusted accessible transect route is shown in **Figure 11**.



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

Results and Observation

Action and Limit Level Exceedance

- 9.55 Three (3) action level exceedance and three (3) limit level exceedance for non-aquatic fauna were recorded at T1, T3 and T6. The exceedances were considered non-project related.
- 9.56 Large proportion of vegetative habitat along T3 (including some shrubs, wood and tall grass) were observed either removed, tarmacked, and concreted as haul road by construction works outside of project, first reported in the Monthly Monitoring Report in December 2021. The altered condition at transect might have been less favourable to inhabitation of odonates, as some species of these taxonomic groups prefers wet vegetated habitats that provides shelters, as opposed to open and dry habitat such as a tarmacked haul road. Previous odonate monitoring results see a drop in odonate records between summer of 2021 and 2022, during the period which construction activities outside of project were observed.
- 9.57 Before the transects, cold weather warnings were recorded at 22nd and 27th January based on HKO's Monthly Weather Summary. Such weather conditions might have affected odonate occurrence. No evidence to suggest that the exceedance were related to project activities, as supported by environmental monitoring data. Future results of these transects will be continuously reviewed.

Details of the Influencing Factors

Major Activities

- 9.58 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.
- 9.59 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..
- 9.60 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.
- 9.61 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

- 9.62 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: <http://www.weather.gov.hk/wxinfo/pastwx/metob202401.htm>), weather conditions might pose influence towards the monitoring results.
- 9.63 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 <i>Supervisor's</i> Representative and the Contractor	2, 9, 17, 23 and 30 Jan 24	3, 10, 17, 24 and 31 Jan 24	5, 12, 16 and 23 Jan 24	4, 11, 15 and 25 Jan 24	2, 8, 18, 22 and 29 Jan 24	N/A	5, 12, 19 and 26 Jan 24
Joint Site Audit with representative of the <i>Supervisor's</i> Representative, the Contractor and IEC	17 Jan 24	31 Jan 24	16 Jan 24	15 Jan 24	18 Jan 24	N/A	19 Jan 24

Remarks: The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.

- 10.2 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 10.2**. Any outstanding and recurrence deficiencies are presented in **Table 10.3**.
- 10.3 All construction activities with significant environmental impact undertaken by Contract No. ND/2019/06 was substantially completed in March 2022 and the majority of outstanding works were also completed in April 2022 with defect rectification works remained. 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. However, in June 2023, more defects were found during the handover inspection so the rectification works were undertaken until July 2023 when all works were completed.
- 10.5 The weekly site inspection and EM&A Reporting for ND/2019/06 were maintained until the termination proposal for ND/2019/06 has been endorsed by the IEC (17 Aug 23), the Engineer (26 Aug 23) and the Project Proponent (19 Sep 23) followed by approval from EPD (19 Oct 23) in accordance. The procedure for termination proposal for ND/2019/06 is in accordance with section 15.4.2 of updated EM&A Manual.

Table 10.2 Observations and Recommendations during Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/01			
Water Quality	17/01/2024	Temporary drainage system at Pak Shek Au should be reviewed to prevent muddy water discharge in the coming wet season.	Improvement/Rectification was observed during follow-up audit session on 23 Jan 2024.
	23/01/2024	Temporary drainage system at Portion 1C should be maintained.	Improvement/Rectification was observed during follow-up audit session on 30 Jan 2024.
	23/01/2024	Debris and litter in RC2 should be cleared.	Improvement/Rectification was observed during follow-up audit session on 30 Jan 2024.
	30/01/2024	Groundwater pumped out should be redirected to treatment facilities.	Follow-up action is needed to be reported in the following month.
Air Quality	02/01/2024	Dust suppression should be enhanced at Portion 3 and 13.	Improvement/Rectification was observed during follow-up audit session on 9 Jan 2024.
	02/01/2024	The NRMM label of the generator at Portion 3 should be displayed properly.	Improvement/Rectification was observed during follow-up audit session on 9 Jan 2024.
	09/01/2024	Mitigation measures for dust impact at Portion 3 should be enhanced. Dust generation of exposed haul road was observed during the site inspection.	Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
	17/01/2023	The haul road at Portion 6A should be kept clean and free from dust.	Improvement/Rectification was observed during follow-up audit session on 23 Jan 2024.
Waste / Chemical Management	17/01/2024	Drip tray for the chemical/fuel containers should be provided at Pak Shek Au.	Improvement/Rectification was observed during follow-up audit session on 23 Jan 2024.
	30/01/2024	Drip tray should be provided to chemical container.	Follow-up action is needed to be reported in the following month.
Noise	28/12/2023	The NEL of the air compressor at Portion 8a should be displayed.	Improvement/Rectification was observed during follow-up audit session on 2 Jan 2024.
Contract No.: ND/2019/02			
Water Quality	29/12/2023	Silt accumulating in the nullah near the water outlet at the material storage should be cleared continuously. Contractor was also reminded to enhance water mitigation measures to prevent further accumulation of silt.	Item remarked as 240103-R02. Follow-up action is needed to be review.

Parameters	Date	Observations and Recommendations	Follow-up
	03/01/2024	Silt accumulating in the nullah at Portion 11 should be cleared. Contractor was also reminded to enhance water mitigation measures to prevent further accumulation.	Item remarked as 240110-R02. Follow-up action is needed to be review.
	10/01/2024		Item remarked as 240117-R02. Follow-up action is needed to be review.
	17/01/2024		Item remarked as 240124-R02. Follow-up action is needed to be review.
	24/01/2024	Muddy debris in the U-channel near the nullah at Portion 11 should be cleared.	Item remarked as 240131-R02. Follow-up action is needed to be review.
	31/01/2024		Follow-up action is needed to be reported in the following month.
	29/12/2023	Enhance the mitigation measures to prevent waste or surface runoff for the discharge point of Portion 1.	Item remarked as 240103-R03. Follow-up action is needed to be review.
	03/01/2024		Improvement/Rectification was observed during follow-up audit session on 10 Jan 2024.
	29/12/2023	Provide maintenance to impervious sheeting on the exposed slope at Portion 5.	Improvement/Rectification was observed during follow-up audit session on 3 Jan 2024.
	29/12/2023	Contractor was reminded to ensure the vehicles are properly cleaned of dirt and dust before leaving the site.	Item remarked as 240103-R04. Follow-up action is needed to be review.
	03/01/2024		Improvement/Rectification was observed during follow-up audit session on 10 Jan 2024.
	24/01/2024	Vehicles should be properly cleared of earth and dust before leaving the site.	Improvement/Rectification was observed during follow-up audit session on 31 Jan 2024.
	03/01/2024	Proper drainage system should be established at Portion 2 as soon as possible.	Item remarked as 240110-O01. Follow-up action is needed to be review.
	10/01/2024		Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
	03/01/2024	Silt accumulating in WetSep should be cleared to ensure water treatment capacity of the WetSep.	Item remarked as 240110-R03. Follow-up action is needed to be review.
	10/01/2024		Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
	10/01/2024	Debris and mud were observed at nearby WetSep. Contractor was reminded to clean it and enhance the water mitigation measure to avoid surface runoff.	Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.

Parameters	Date	Observations and Recommendations	Follow-up
	10/01/2024	Clean the mud inside the silt curtain as maintenance.	Item remarked as 240117-R04. Follow-up action is needed to be review.
	17/01/2024		Improvement/Rectification was observed during follow-up audit session on 24 Jan 2024.
	10/01/2024	Provide impervious sheeting for the exposed slope.	Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
	17/01/2024	Treated water was discharged into inappropriate location. Contractor was reminded to discharge water into the valid point.	Item remarked as 240124-O01. Follow-up action is needed to be review.
	24/01/2024		Item remarked as 240131-O01. Follow-up action is needed to be review.
	31/01/2024		Follow-up action is needed to be reported in the following month.
	17/01/2024	Enhance the water mitigation measure to avoid surface runoff to nearby watercourse.	Item remarked as 240124-R04. Follow-up action is needed to be review.
	24/01/2024	Water mitigation measures should be provided for the works area next to Shek Sheung River to prevent muddy runoff from discharging into the river.	Item remarked as 240131-R03. Follow-up action is needed to be review.
	31/01/2024		Follow-up action is needed to be reported in the following month.
	31/01/2024	Enhance the water mitigation measure to avoid surface runoff. (Portion 5)	Follow-up action is needed to be reported in the following month.
Air Quality	29/12/2023	Dusty stockpile and exposed slopes should be covered with tarpaulin sheets.	Improvement/Rectification was observed during follow-up audit session on 3 Jan 2024.
	10/01/2024	Provide impervious sheeting for the dusty stockpile.	Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
Landscape and Visual	29/12/2023	The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	Item remarked as 240103-R01. Follow-up action is needed to be review.
	03/01/2024		Item remarked as 240110-R01. Follow-up action is needed to be review.
	10/01/2024		Item remarked as 240117-R01. Follow-up action is needed to be review.
	17/01/2024		Item remarked as 240124-R01. Follow-up action is needed to be review.

Parameters	Date	Observations and Recommendations	Follow-up
	24/01/2024		Item remarked as 240131-R01. Follow-up action is needed to be review.
	31/01/2024		Follow-up action is needed to be reported in the following month.
Waste / Chemical Management	03/01/2024	Oil leakage was observed. Contractor was reminded to clear the oil leakage immediately.	Improvement/Rectification was observed during follow-up audit session on 10 Jan 2024.
	10/01/2024	Keep site tidy and clean avoid waste accumulation.	Improvement/Rectification was observed during follow-up audit session on 17 Jan 2024.
	17/01/2024	Keep site tidy and clean to avoid waste accumulation for Dills Corner.	Improvement/Rectification was observed during follow-up audit session on 24 Jan 2024.
	17/01/2024	Provide drip tray for the chemical/fuel containers for Dills Corner.	Improvement/Rectification was observed during follow-up audit session on 24 Jan 2024.
	31/01/2024	Provide drip tray for the chemical/fuel containers. (Portion 5)	Follow-up action is needed to be reported in the following month.
Ecology	03/01/2024	The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	Item remarked as 240110-R01. Follow-up action is needed to be review.
	10/01/2024		Item remarked as 240117-R01. Follow-up action is needed to be review.
	17/01/2024		Item remarked as 240124-R01. Follow-up action is needed to be review.
	24/01/2024		Item remarked as 240131-R01. Follow-up action is needed to be review.
	31/01/2024		Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/03			
Air Quality	05/01/2024	Exposed work site should be sprayed with water as dust suppression.	Improvement/Rectification was observed during follow-up audit session on 12 Jan 2024.
Water Quality	23/01/2024	Wheel-washing facilities should be provided at the site entrance/exit.	Follow-up action is needed to be reported in the following month.
Waste/Chemical Management	23/01/2024	The chemical/fuel containers should be placed inside the drip tray.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/04			
Air Quality	04/01/2024	The exposed haul road at Portion K should be sprayed with water regularly as dust suppression.	Improvement/Rectification was observed during follow-up audit session on 11 Jan 2024.

Parameters	Date	Observations and Recommendations	Follow-up
	15/01/2024	Dust suppression measures should be enhanced e.g. water-spraying.	Improvement/Rectification was observed during follow-up audit session on 15 Jan 2024.
	25/01/2024	The haul road at Portion K should be watered regularly as dust suppression.	Follow-up action is needed to be reported in the following month.
	25/01/2024	Dusty stockpile at Portion K should be covered properly to reduce dust emission.	Follow-up action is needed to be reported in the following month.
Ecology	28/12/2023	The silt curtain at Bridge F should be maintained properly and regularly.	Item remarked as 240104-R01. Follow-up action is needed to be review.
	04/01/2024		Improvement/Rectification was observed during follow-up audit session on 11 Jan 2024.
	11/01/2024	The 2m high green barrier of the 10m vegetated buffer zone between A2-03 and A2-04 should be maintained properly and regularly.	Item remarked as 240115-R03. Follow-up action is needed to be review.
	15/01/2024		Item remarked as 240125-R04. Follow-up action is needed to be review.
	25/01/2024		Follow-up action is needed to be reported in the following month.
Waste / Chemical Management	15/01/2024	General refuse should be disposed of regularly and properly at depressed road A.	Improvement/Rectification was observed during follow-up audit session on 15 Jan 2024.
	25/01/2024	Drip tray for the chemical/fuel containers should be provided. Oil spillage was observed.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/05			
Waste / Chemical Management	08/01/2024	Drip tray should be provided for the chemical/fuel containers at C4-01b.	Improvement/Rectification was observed during follow-up audit session on 18 Jan 2024.
Water Quality	18/01/2024	Enhance the water mitigation measure to avoid surface runoff at Bridge C.	Improvement/Rectification was observed during follow-up audit session on 22 Jan 2024.
	29/01/2024	Sandbag barriers should be enhanced at D2-01 to make sure the surface runoff stays in the site boundary.	Follow-up action is needed to be reported in the following month.
Air Quality	18/01/2024	Provide valid NRMM label for the generator at C1-03b.	Improvement/Rectification was observed during follow-up audit session on 22 Jan 2024.

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/06			
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Contract No.: ND/2019/07			
Waste/Chemical Management	19/01/2024	Keep site tidy and clean at near Ma Sik Road.	Improvement/Rectification was observed during follow-up audit session on 26 Jan 2024.

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

Contract No.	Outstanding deficiencies since last reporting month (Dec 2023)	Deficiencies recorded in the reporting month (Jan 2024)								Total deficiencies (including repeated deficiencies) in the reporting month	Deficiencies rectified in the reporting month	Outstanding deficiencies need to be Follow-up in the next month (Feb 2024)								Total outstanding deficiencies
		A	N	W	W/C	C H	L & V	E	P/L			A	N	W	W/C	C H	L & V	E	P/L	
ND/2019/01	1	4	1	4	2	/	/	/	/	11	9	/	/	1	1	/	/	/	/	2
ND/2019/02	6	2	/	27	5	/	6	5	/	45	15	/	/	4	1	/	1	1	/	7
ND/2019/03	/	1	/	1	1	/	/	/	/	3	1	/	/	1	1	/	/	/	/	2
ND/2019/04	1	4	/	/	2	/	/	5	/	11	4	2	/	/	1	/	/	1	/	4
ND/2019/05	/	1	/	2	1	/	/	/	/	4	3	/	/	1	/	/	/	/	/	1
ND/2019/06*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/07	/	/	/	/	1	/	/	/	/	1	1	/	/	/	/	/	/	/	/	/

Legends:

A = Air Quality

N = Construction Noise Impact

W = Water Quality

W/C = Waste / Chemical Management

CH = Cultural Heritage

L&V = Landscape & Visual

E = Ecology





P/L = Permit / Licences



* The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.

Implementation Status of Environmental Mitigation Measures

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

Table 10.4 Photographic Records and Implementation Status of Measures

EP No.	Condition	Photographic Record	Implementation Status
<u>EP-466/2013/A</u>	2.9	 <p>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.</p>	^ _[1]
<u>EP-467/2013/A</u>	2.9	 <p>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.</p>	^ _[1]
<u>EP-468/2013/A</u>	2.11	 <p>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.</p>	^ _[1]
<u>EP-469/2013</u>	2.7	 <p>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.</p>	^ _[1]

<p>EP- 473/2013/ A</p>	<p>2.13</p>	 <p>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.</p>	<p>Λ_[1]</p>
<p>EP- 475/2013/ A</p>	<p>2.7</p>	 <p>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.</p>	<p>Λ_[1]</p>
<p>Implementation status:</p>		<p>^ 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</p>	

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

Works Contracts	Photographic Records	
ND/2019/01	 <p>Hard paved exposed slope surface</p>	 <p>Hydroseeding for slope area</p>
ND/2019/02	 <p>Hard paved exposed haul road</p>	 <p>Hard paved exposed slope surface</p>
ND/2019/03	 <p>Hard paved exposed haul road</p>	 <p>Watering the main haul road regularly.</p>
ND/2019/04	 <p>Hard paved exposed slope surface</p>	 <p>Deployment of silt curtain around works area in Ng Tung River</p>

ND/2019/05	 <p>Covering dusty stockpile</p>	 <p>Provision of sand bags around works area</p>
ND/2019/07	 <p>Covering exposed slope surface with tarpaulin</p>	 <p>De-silting waste water before discharge</p>
Water quality mitigation measures for site(s) in operation phase, remaining defect works		
ND/2019/06	 <p>Hard paved exposed haul road</p>	 <p>Hard paved exposed haul road</p>

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 10.6 Photographic Records of Site Activities in LVNP

	
Continuing agricultural practice in existing farmland to maintain habitats in Long Valley	
	
<p><i>Open water Habitat</i> Creation of wetland with designated habitat for biodiversity conservation</p>	
	
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	



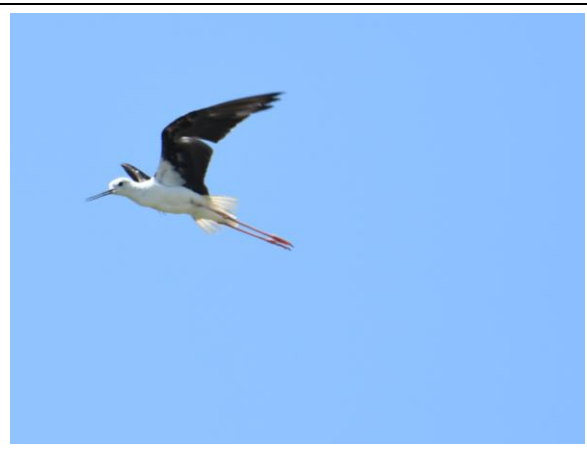
Provision of bird island (hidden area)



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

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 11.1 No Action/Limit Level exceedance for air quality, water quality, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month.
- 11.2 Two (2) Action Level for construction noise monitoring were recorded. The summary of exceedance record in the reporting month is shown in **Appendix O**.
- 11.3 Ecological monitoring was carried out in the reporting month. Three (3) action level exceedance and three (3) limit level exceedance for non-aquatic fauna were recorded at T1, T3 & T6. The exceedance were considered non-project related.
- 11.4 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that Action / Limit Levels are exceeded, the actions in accordance with the Event/Action Plan in **Appendix N** would be carried out.

Summary of Environmental Non-Compliance

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

Summary of Environmental Complaint

- 11.6 Two (2) environmental complaints were received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in Appendix S.

Summary of Environmental Summon and Successful Prosecution

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

12 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

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

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

Contract No.	Major Site Activities (February to April 2024)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Site clearance / tree felling	Portion 2, 13	<ul style="list-style-type: none"> - Construction Dust impact - Noise Impact (Construction Phase) - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) 	Air <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - Regular inspect of construction plants in good condition.
	(b) GI works	NIL		
	(c) Excavation / Backfilling	Portion 5, 6a, 7, 8a, 9b		
	(d) Construction of receiving pit	Portion 8a		
	(e) Construction of noise barrier	NIL		
	(f) Site Formation	Portion 1c, 2, 5, 13		
	(g) Removal of existing structure	Portion 11b, 13		
	(h) Construction of subway	Portion 2		
	(i) Operation of HAC treatment facility	Portion 6b		
	(j) Drainage works / watermains works	Portion 1a, 2, 3, 6a, 7, 8a, 8b, 9b		

	(k) Road Construction	Portion 2		<ul style="list-style-type: none"> - 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. <p>Water</p> <ul style="list-style-type: none"> - 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. <p>Waste / Chemical Management</p> <ul style="list-style-type: none"> - 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 8b		
	(m) Construction of reservoir	Portions 8a		
	(n) Ground Treatment	NIL		
	(o) Erection of hoarding	Portion 1c, 13		
	(p) Sheet piling / ELS & pipe pile	Portion 1a, 2, 9b		

				<ul style="list-style-type: none"> - 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 1, 5	Air, Noise, Waste	<ul style="list-style-type: none"> - 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.
	(b) Backfilling	Portion 4, 7, 8	Air, Noise, Waste	
	(c) Concreting	Portions 7, 8, 9 & 10	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 3, 4	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 1, 4, 5	Air, Noise, Water, Waste, Ecology	
	(f) Sheet Pile Removal	NIL	Air, Noise, Water, Waste	
	(g) Cut and Fill of Slope	Portion 3, 4	Air, Noise, Water, Waste	
	(h) Sheet pile installation	Portion 1, 4		

				- Dull green barrier and ecological measures should be implemented according to the Ecological protection plan.
ND/2019/03	(a) Excavation & ELS	Portion 1, 1A, 2, 3, 4, 4A, 4B, 5, 5A	- Waste - Air pollution - Noise pollution	<ul style="list-style-type: none"> - 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) Site Clearance	Sections 7, 8 and 9	- Waste - Air pollution - Noise pollution	
	(c) Tree Felling	Sections 6, 7, 8 and 9	- Waste - Air pollution - Noise pollution	
ND/2019/04	(a) Sheet piling	A2-03, Portion J, K and Footbridge F4	- Air, Noise, Waste	<ul style="list-style-type: none"> - 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.
	(b) Pile cap	Bridge A1, A3 and Portion J, K	- Air, Noise, Water, Waste	
	(c) Grouting	Bridge F, A2, A3 and Portion J, K, H	- Air, Noise, Water, Waste	
	(d) Bore pile	Bridge G and Footbridge F4	- Air, Noise, Water, Waste	

	(e) Excavation & ELS	Portion J, H, K, X, S, Bridge A1, A2 and A3	- Air, Noise, Waste	<ul style="list-style-type: none"> - 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.
	(f) Road works	Portion J, H, O, U and VY	- Air, Noise, Waste	
	(g) Pre-drilling	NIL	- Air, Noise, Water, Waste	
	(h) Tree pruning	Portion K	- Air, Noise, Waste	
	(i) UU diversion	Portion J and K	- Air, Noise, Waste	
ND/2019/05	(a) ELS & Pile Cap Construction	NB69 Bay 2~8 NB110 Bay 6~7	<ul style="list-style-type: none"> - Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual - Cultural Heritage 	<ul style="list-style-type: none"> - 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.
	(b) Cap Construction	E3-04a, E3-04b, E4-01 and E4-02		
	(c) Cross head construction	B2-01, B2-02 and B2-03		
	(d) Pier / Pier head Construction	D2-01 and E305M		
	(e) Fabrication for segment	C2, C1, D1, D2, E1, E4		
	(f) Form Traveler	E3-01 construction 3 rd to 6 th pair E2-02 construction 14 th pair & dismantling of FT1 D2-02 construction 6 th to 8 th pair D2-03 construction 2 nd pair to 4 th pair		

		E2-01 erection of 5 th set of form traveler.		
	(g) Segment Erection by Launching Girder & Crane	bridges C3, C2		
	(h) SOP construction (precast & in-situ cast in type)	D2-01		
	(i) Road construction	TWSRW, TWSRE		
	(j) Road works	Jockey Club Rd, TWSRW		
	(k) Base slab construction	NB109 – bay 11~12		
	(l) Tree Works	All works areas		
				<ul style="list-style-type: none"> - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions. - 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.

				<ul style="list-style-type: none"> - Conducting Construction Vibration Monitoring - Tree Protection & Preservation Existing trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. - Erect 2m high dull green site boundary fence.
ND/2019/06	N/A	N/A	N/A	N/A
ND/2019/07	(a) Road works	Portion 1, 4, 5	<ul style="list-style-type: none"> - Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual 	<ul style="list-style-type: none"> - 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.
	(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 2, 3, 4		
	(g) Sewerage works	Portion 3, 4		

	(h) Construction of Noise Barrier	Portion 5		<ul style="list-style-type: none"> - All open stockpiles of construction materials of more than 50m³ to be covered with tarpaulin. - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions. - 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
	(i) Waterworks	Portion 1, 2, 4		

				<p>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.</p> <ul style="list-style-type: none"> - Tree Protection & Preservation – Existing 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.
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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 January 2024 in accordance with the Updated EM&A Manual.

13.2 Two (2) Action Level for Construction Noise Monitoring were recorded in the reporting month. No Action/Limit Level exceedance for air quality, water quality, ambient arsenic, landfill gas monitoring and build heritage monitoring was recorded in the reporting month.

13.3 Three (3) non-project related action level exceedance and three (3) non-project related limit level exceedance for non-aquatic fauna were recorded.

Contract No. ND/2019/01

13.4 Environmental site inspections were conducted on 2, 9, 17, 23 and 30 Jan 24 by ET in the reporting month.

Contract No. ND/2019/02

13.5 Environmental site inspections were conducted on 3, 10, 17, 24 and 31 Jan 24 by ET in the reporting month.

Contract No. ND/2019/03

13.6 Environmental site inspections were conducted on 5, 12, 16 and 23 Jan 24 by ET in the reporting month.

Contract No. ND/2019/04

13.7 Environmental site inspections were conducted on 4, 11, 15 and 25 Jan 24 by ET in the reporting month.

Contract No. ND/2019/05

13.8 Environmental site inspections were conducted on 2, 8, 18, 22 and 29 Jan 24 by ET in the reporting month.

Contract No. ND/2019/06

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

Contract No. ND/2019/07

13.10 Environmental site inspections were conducted on 5, 12, 19 and 26 Jan 24 by ET in the reporting month.

13.11 Two (2) environmental complaints were 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.

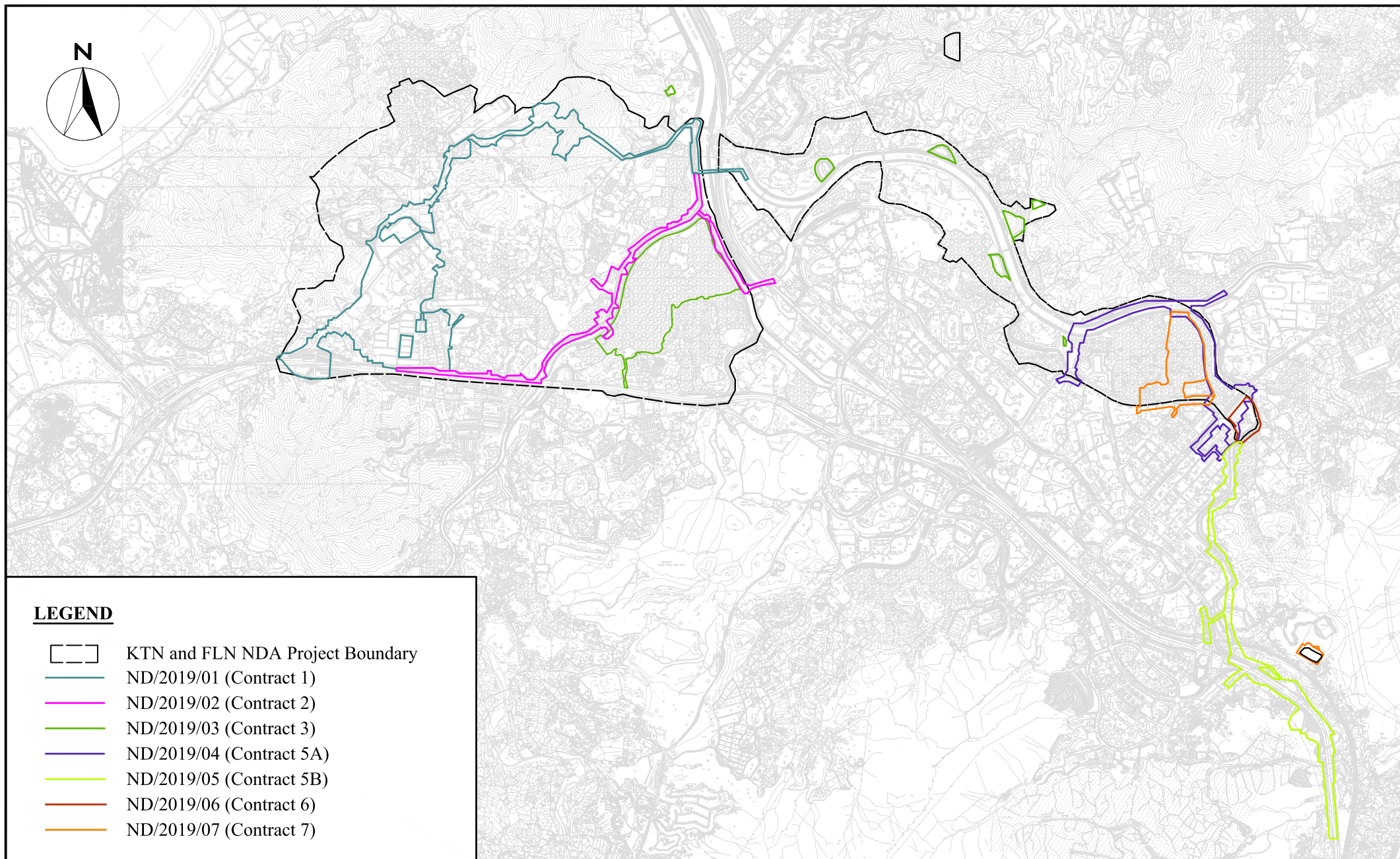
Ecology

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

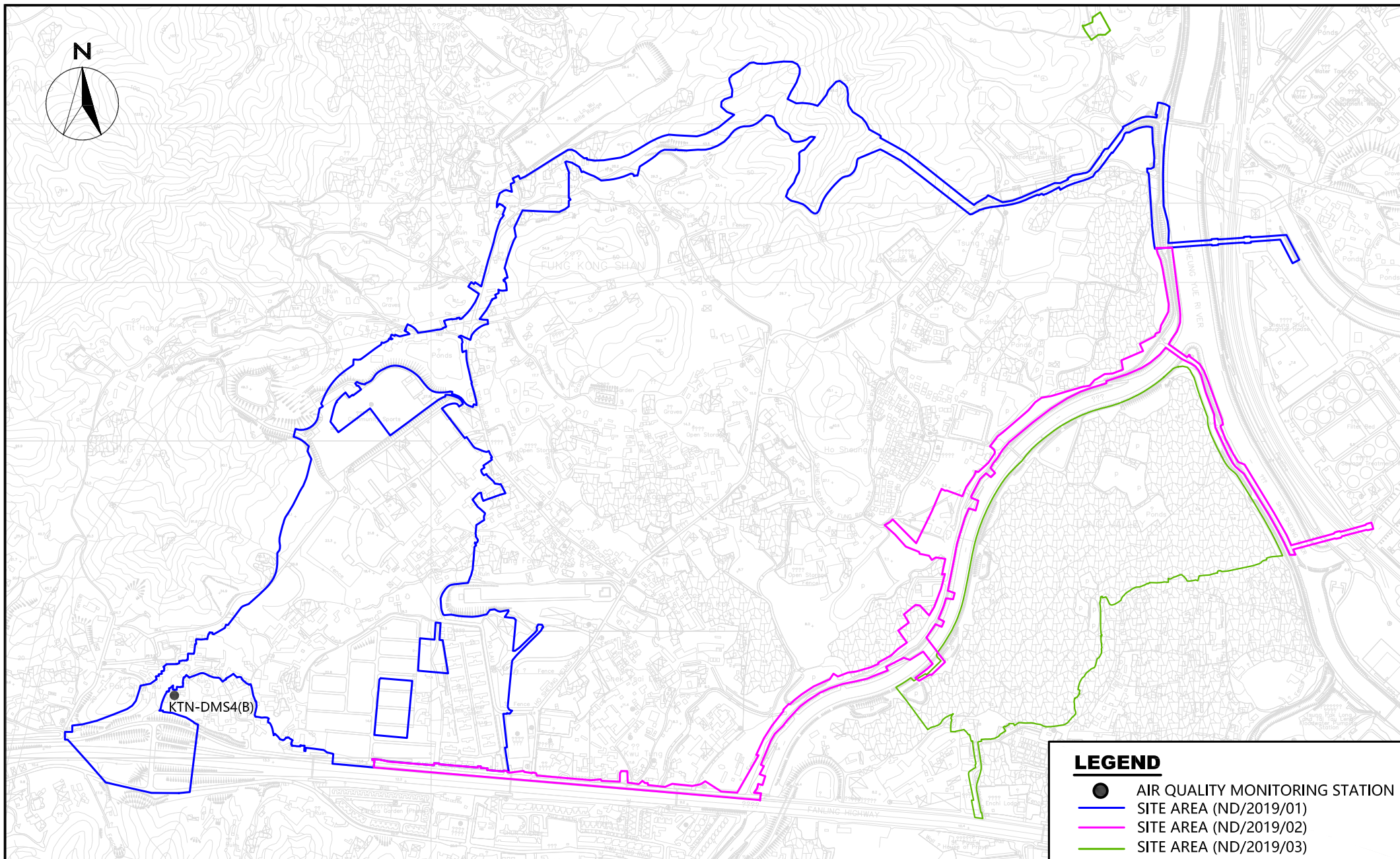
Permit/ Licences

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

DRAWING(S)

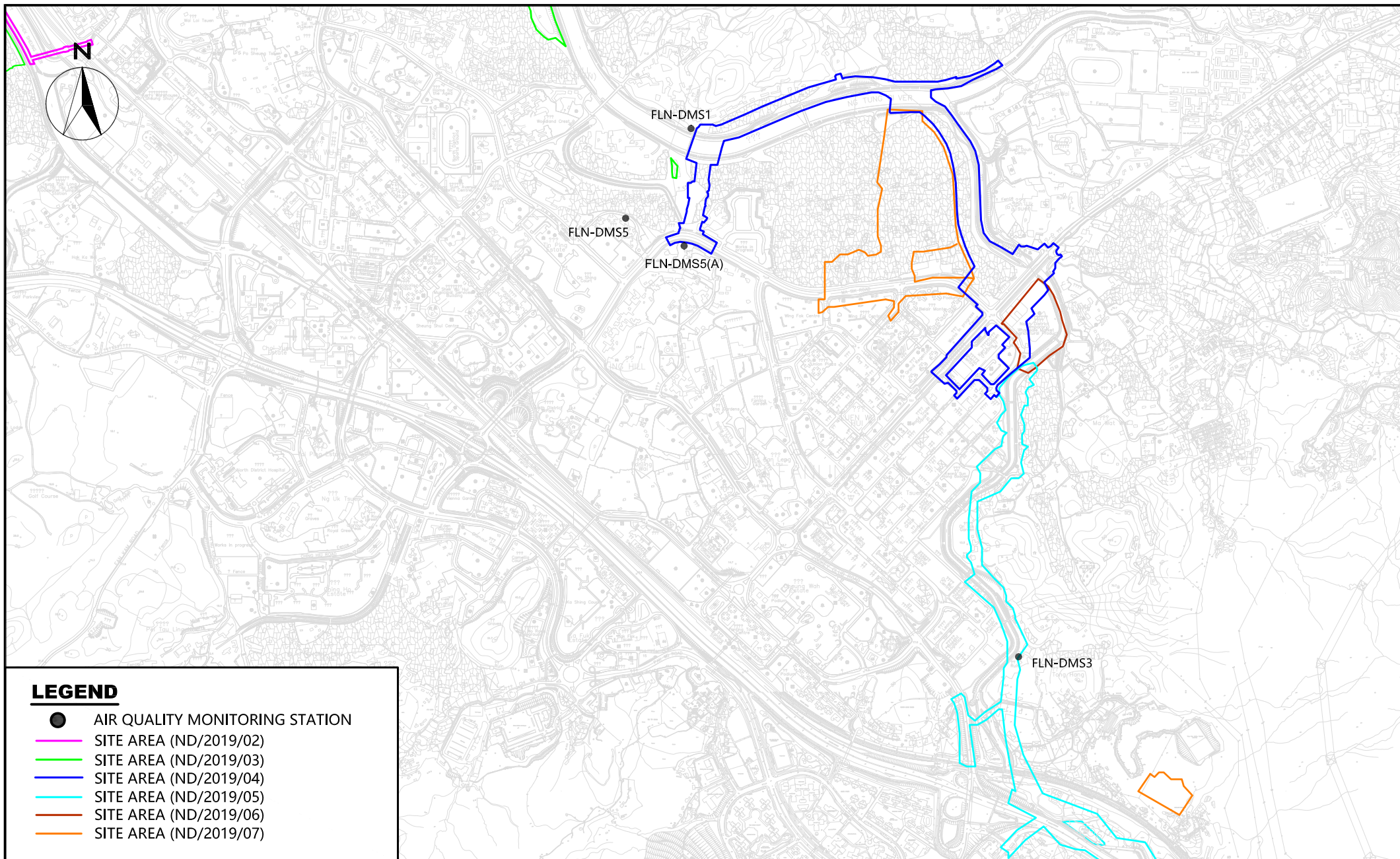


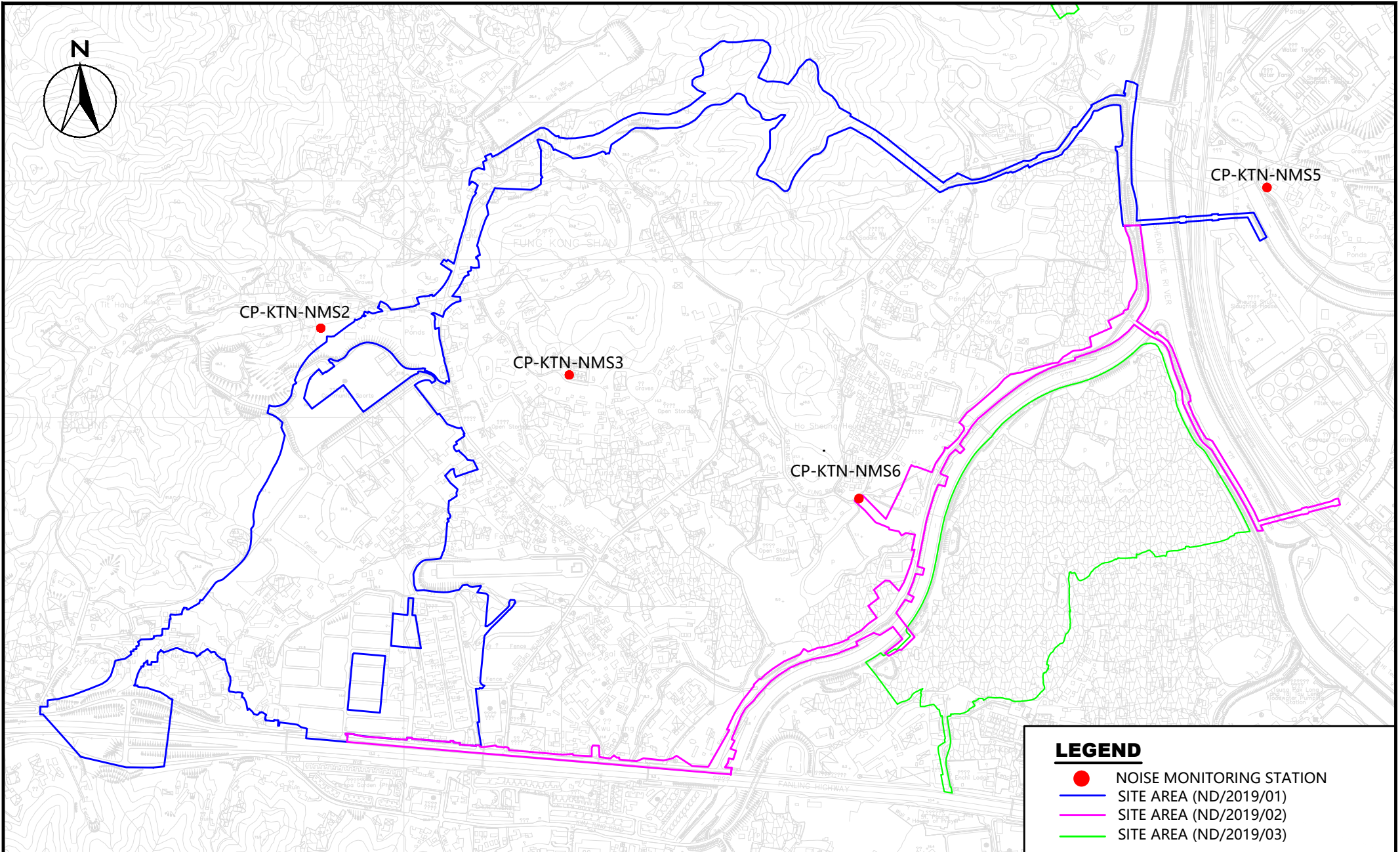
FIGURE(S)



LEGEND

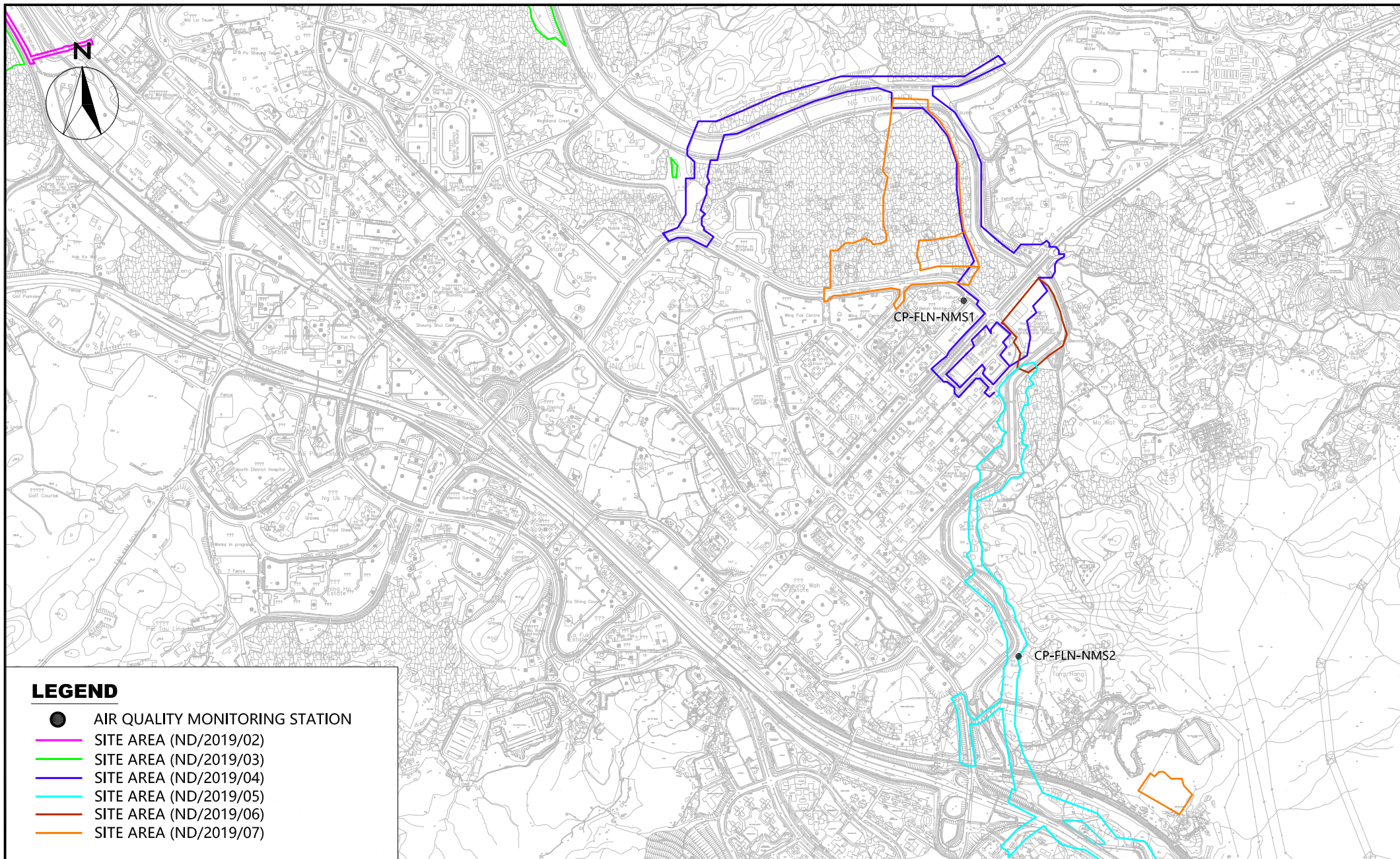
- AIR QUALITY MONITORING STATION
- SITE AREA (ND/2019/01)
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)





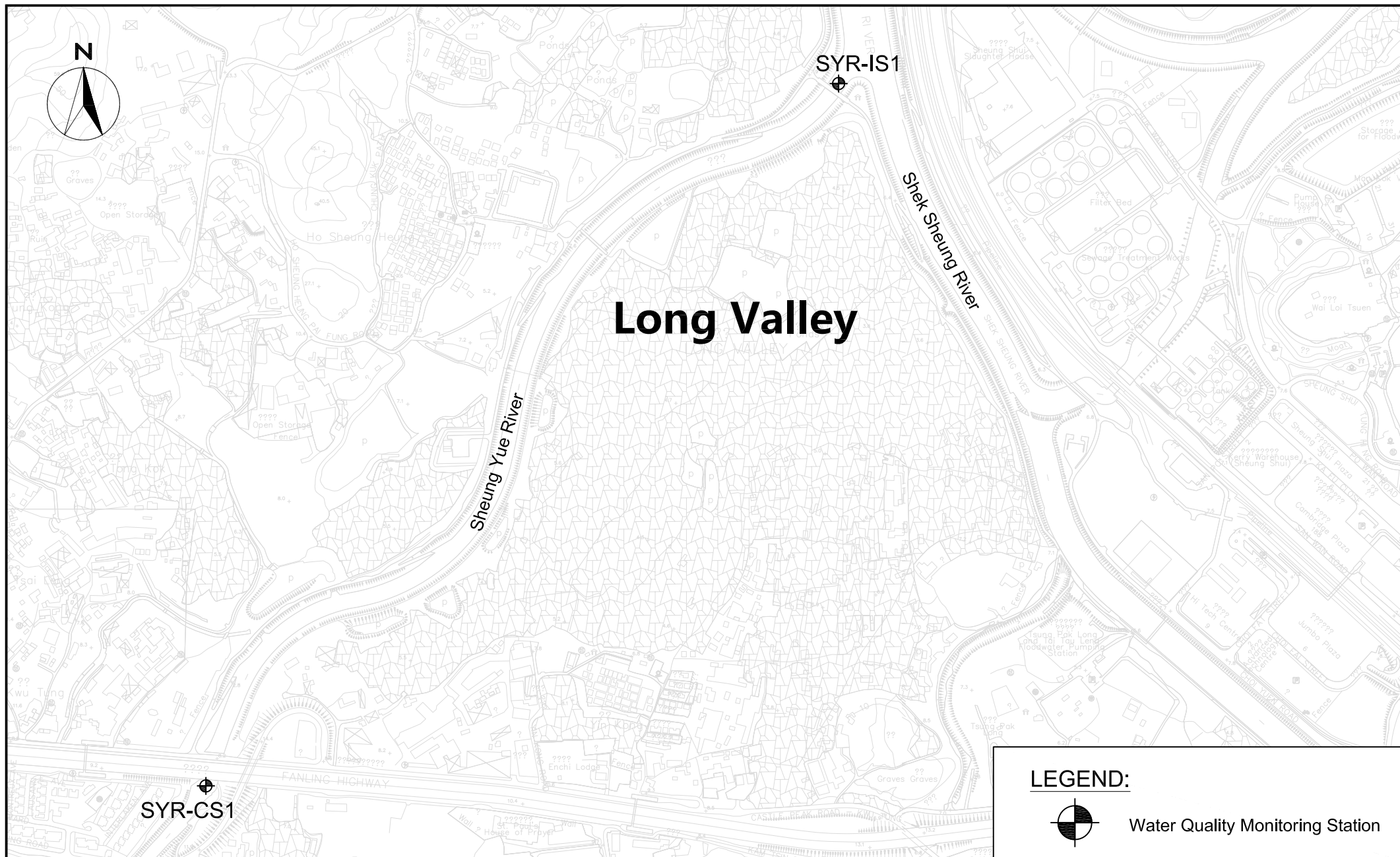
LEGEND

- NOISE MONITORING STATION
- SITE AREA (ND/2019/01)
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)



LEGEND

- AIR QUALITY MONITORING STATION
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)
- SITE AREA (ND/2019/04)
- SITE AREA (ND/2019/05)
- SITE AREA (ND/2019/06)
- SITE AREA (ND/2019/07)



LEGEND:



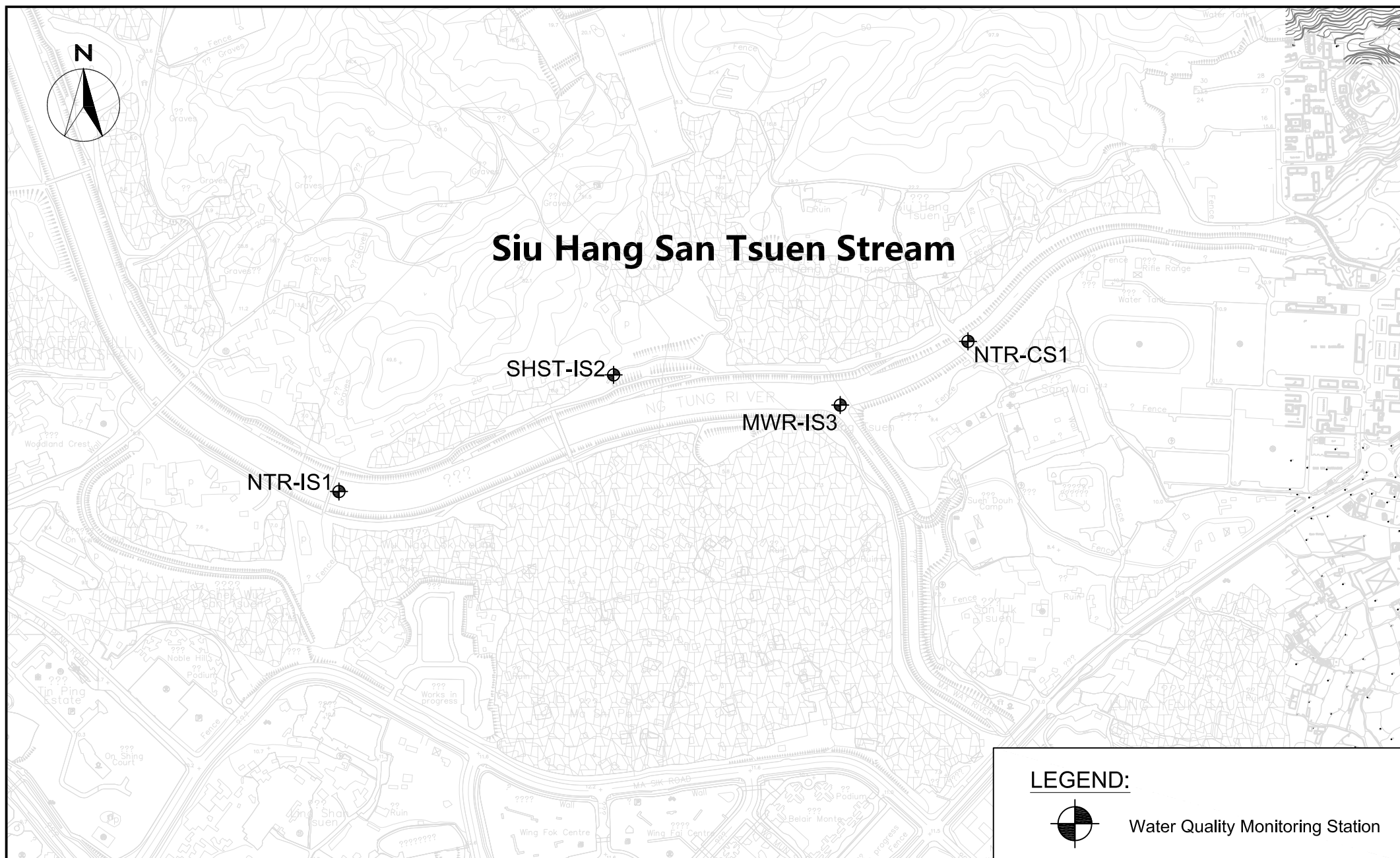
Water Quality Monitoring Station

WELLAB 匯力
consulting . testing . research

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

Location of Additional Water Quality Monitoring Stations at River Beas

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

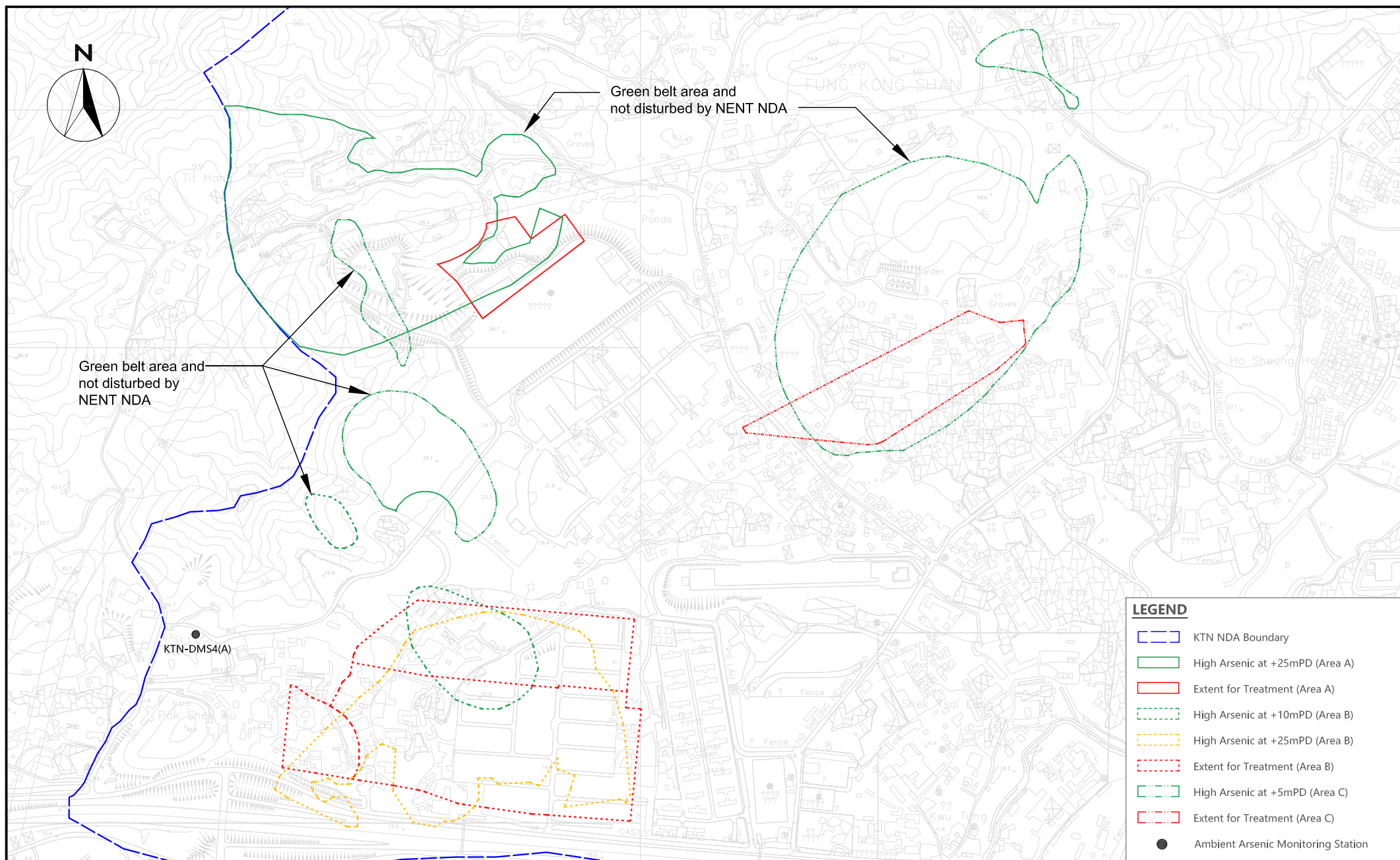


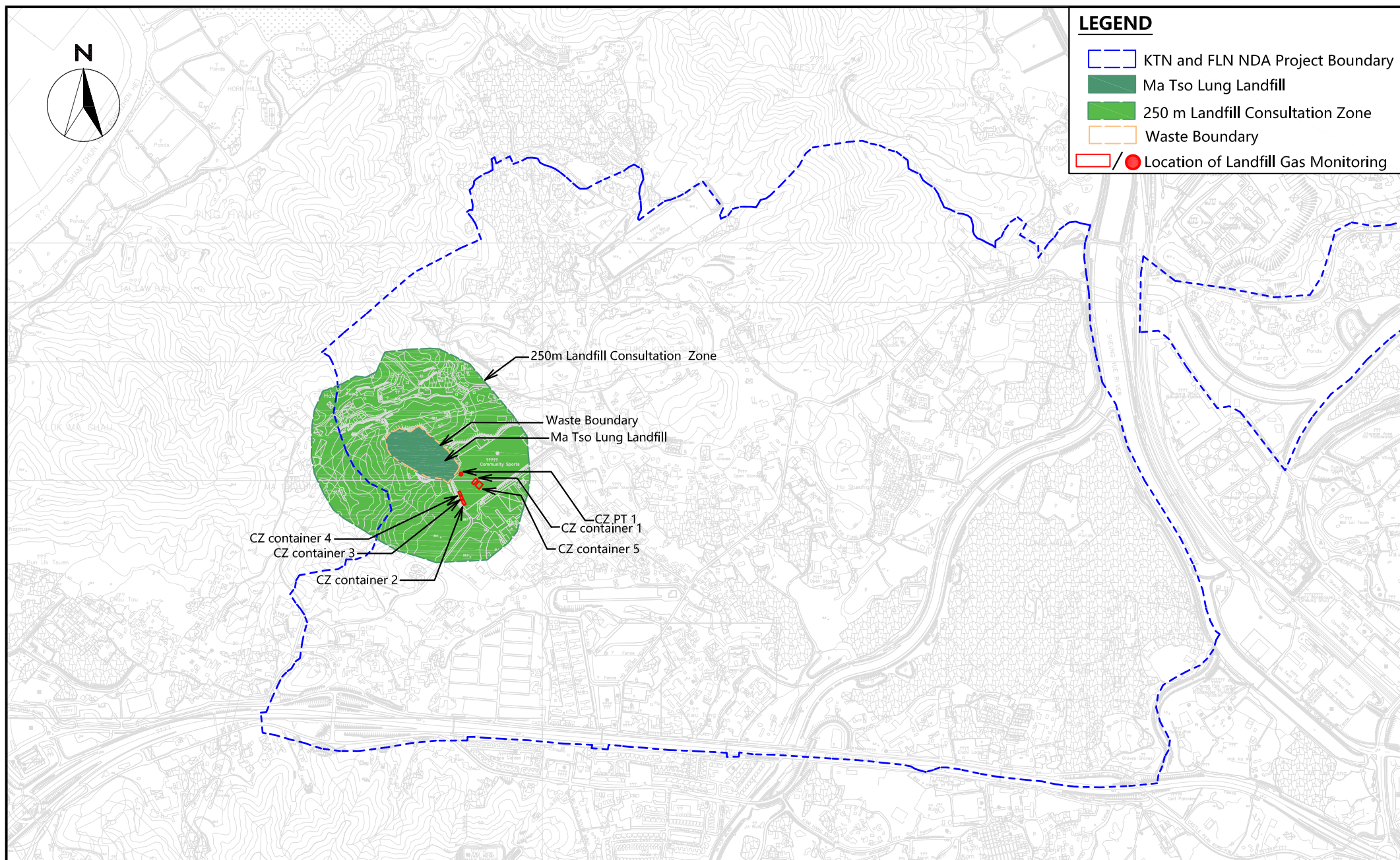
LEGEND:

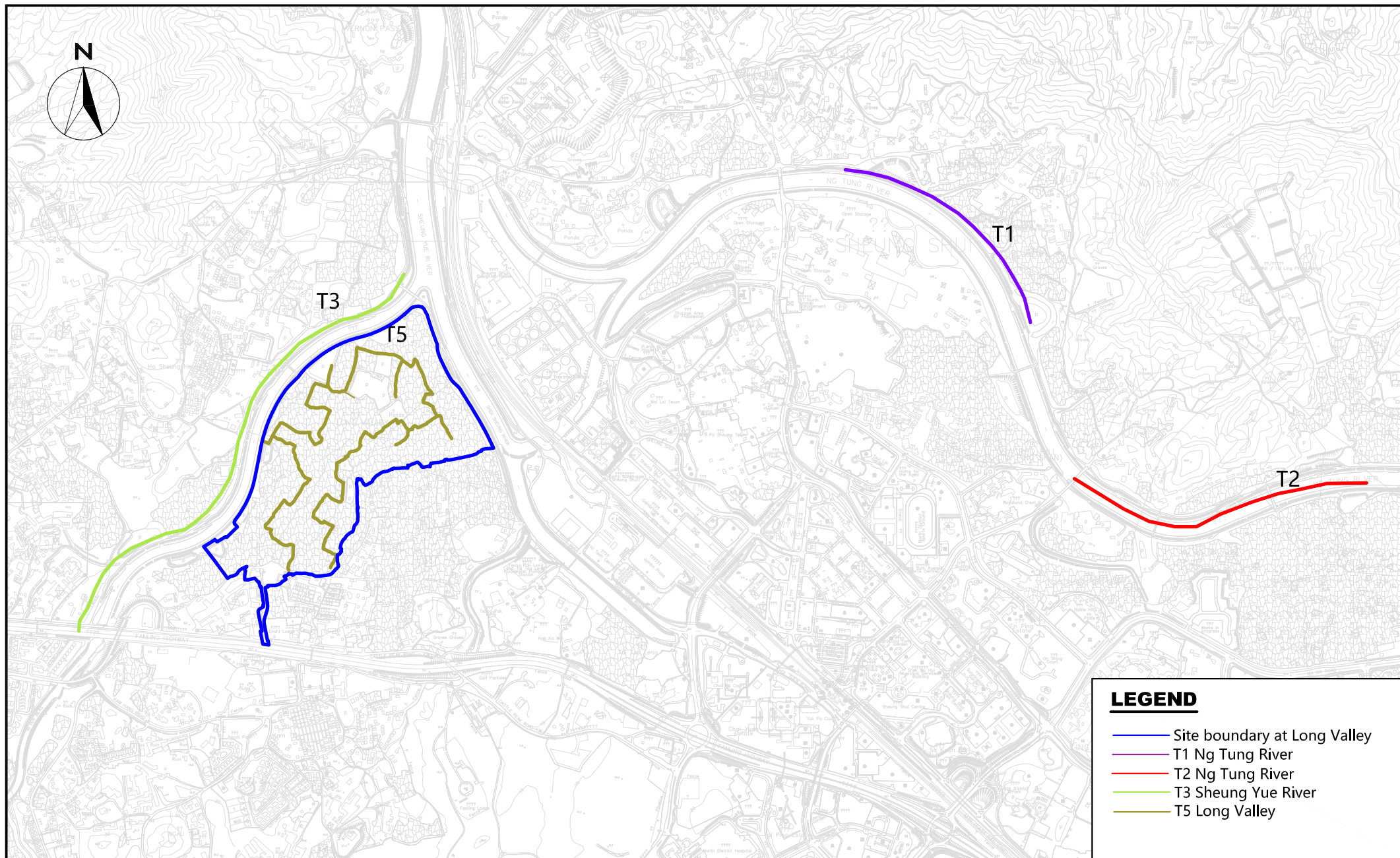


Water Quality Monitoring Station

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











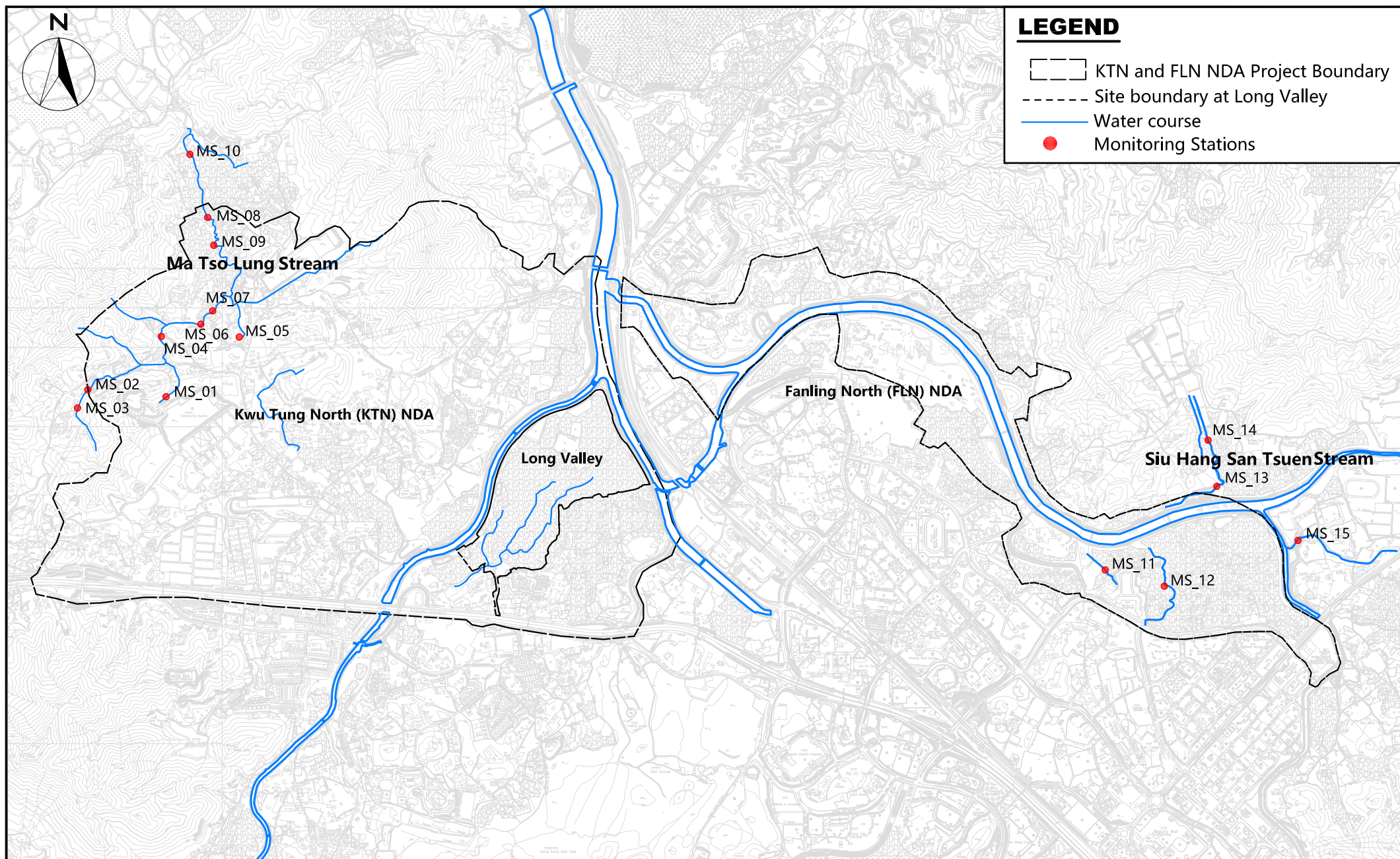
LEGEND

- Site boundary at Long Valley
- T1 Ng Tung River
- T2 Ng Tung River
- T3 Sheung Yue River
- T5 Long Valley



LEGEND

-  KTN and FLN NDA Project Boundary
-  Site boundary at Long Valley
-  Water course
-  Monitoring Stations



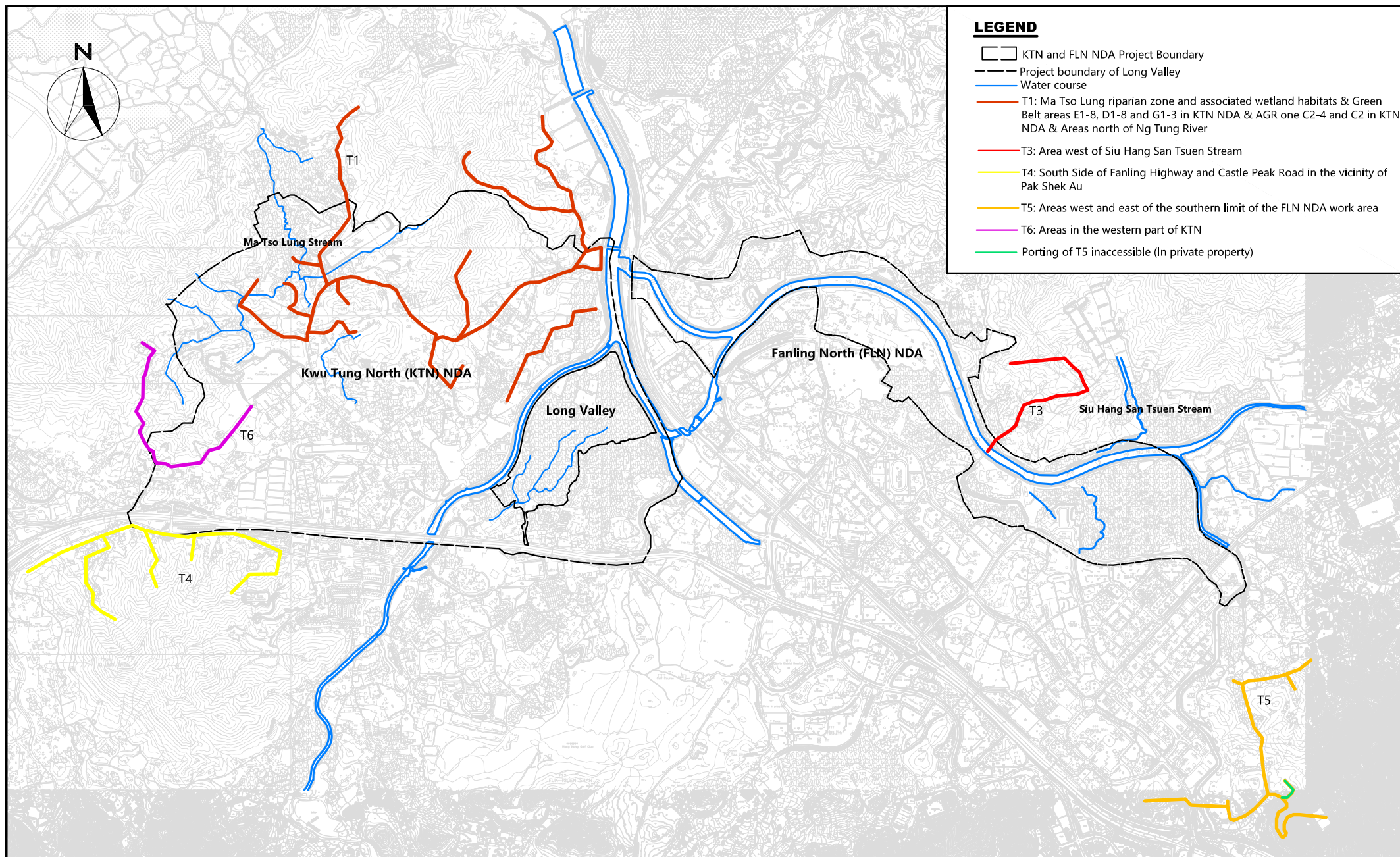
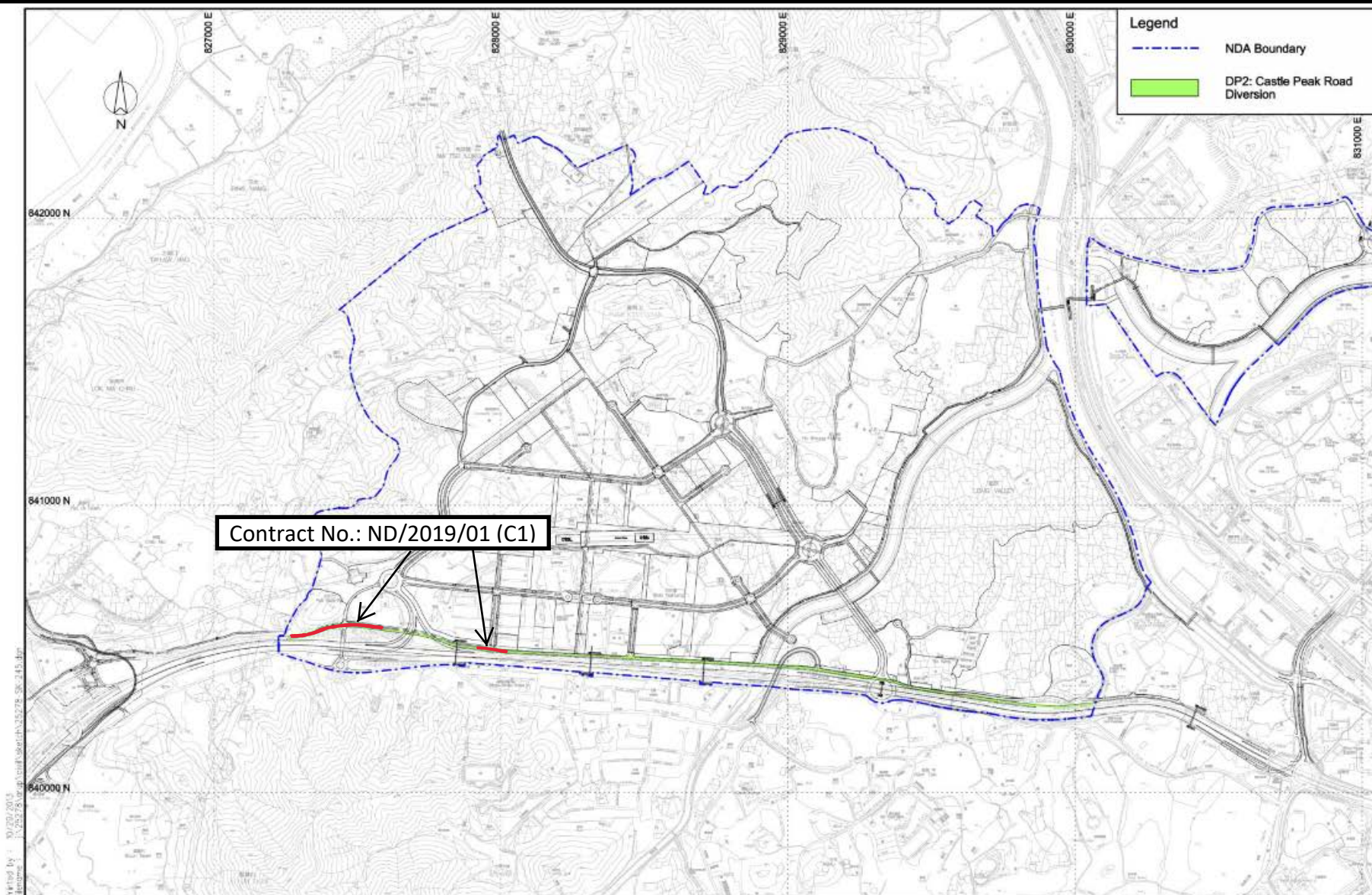


Figure 12

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)

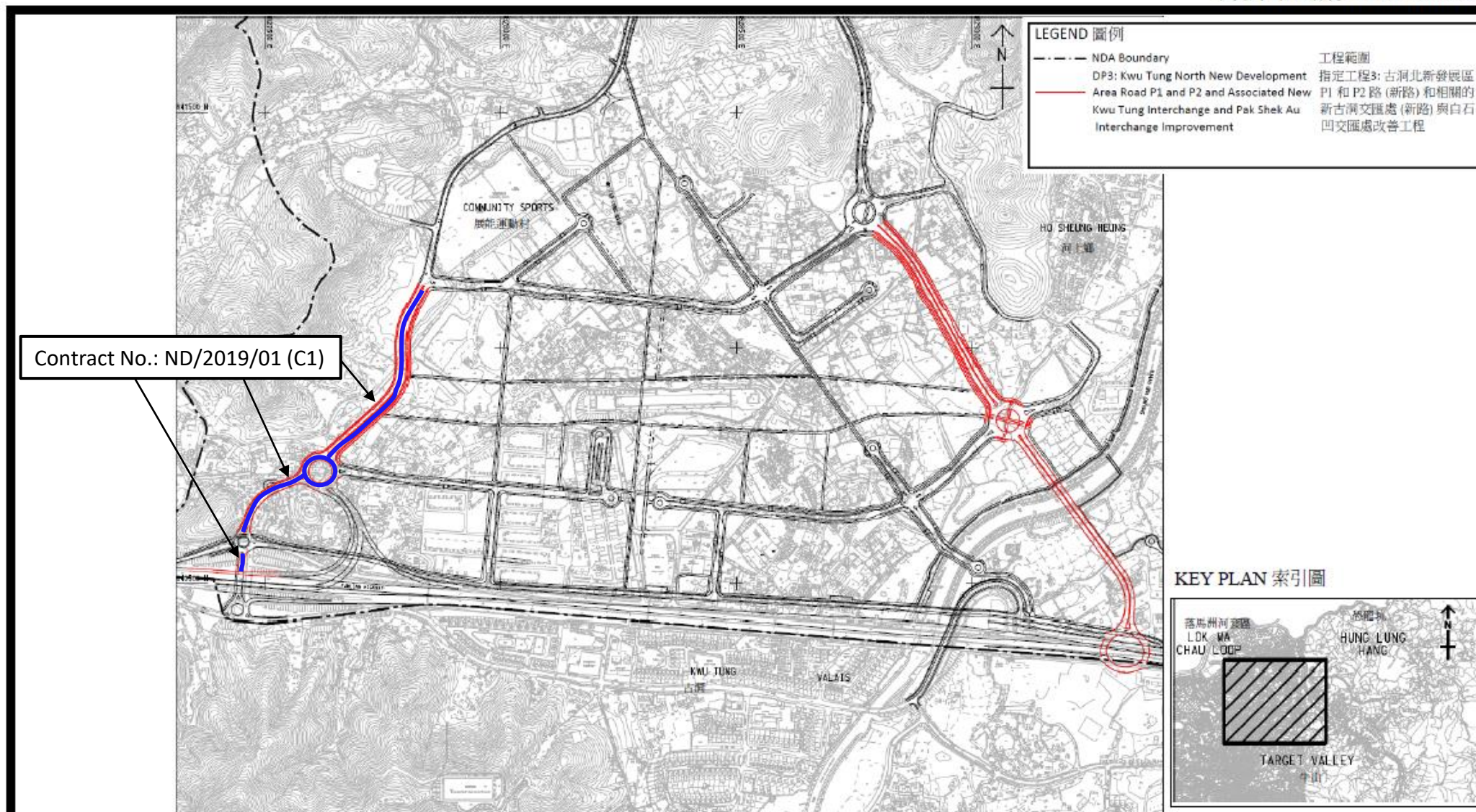
**Environmental Permit No:
EP-466/2013/A**



Figure 13

Site Layout Plan of Contract ND/2019/01

under EP-467/2013/A



Project Title: Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement
工程名稱: 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

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



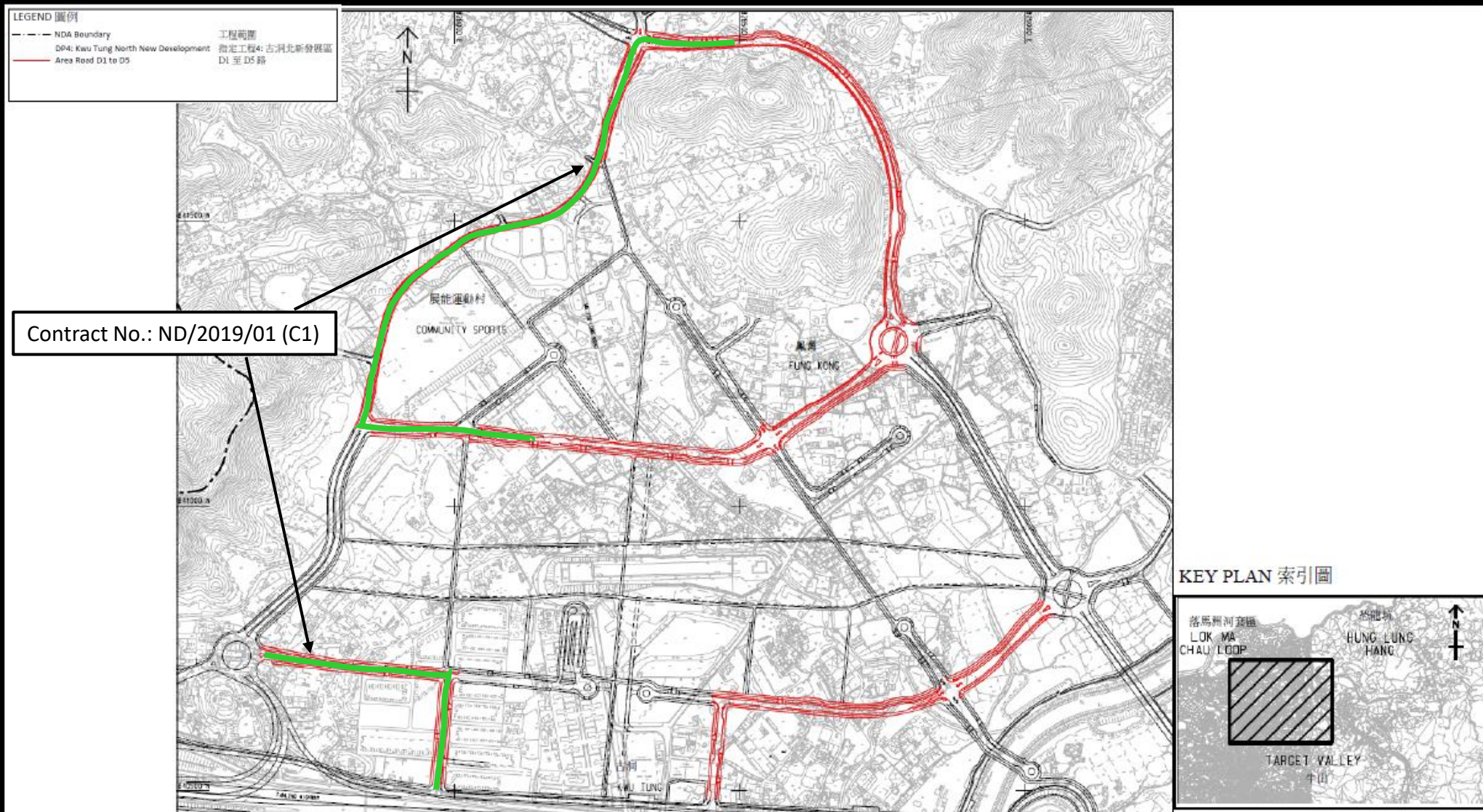
Figure 1: Location Plan for Interchange Improvement (Indicative)
 (This figure was prepared based on Figure 1.2 of VEP application (No.: VEP-523/2016))

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)

Figure 14

Site Layout Plan of Contract ND/2019/01

under EP-468/2013/A



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

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



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)

Figure 15

Site Layout Plan of Contract ND/2019/03

under EP-468/2013/A



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



土木工程拓展署
 Civil Engineering and
 Development Department

AECOM Asia Company Ltd.
www.aecom.com

STATUS

SCALE 比例	DIMENSION UNIT 尺寸單位
A1 1 : 5000	METRES

KEY PLAN

PROJECT NO. 項目編號	CONTRACT NO. 合約編號
60335576	ND/2019/03

SHEET TITLE
圖紙名稱

KEY PLAN OF GENERAL LAYOUT

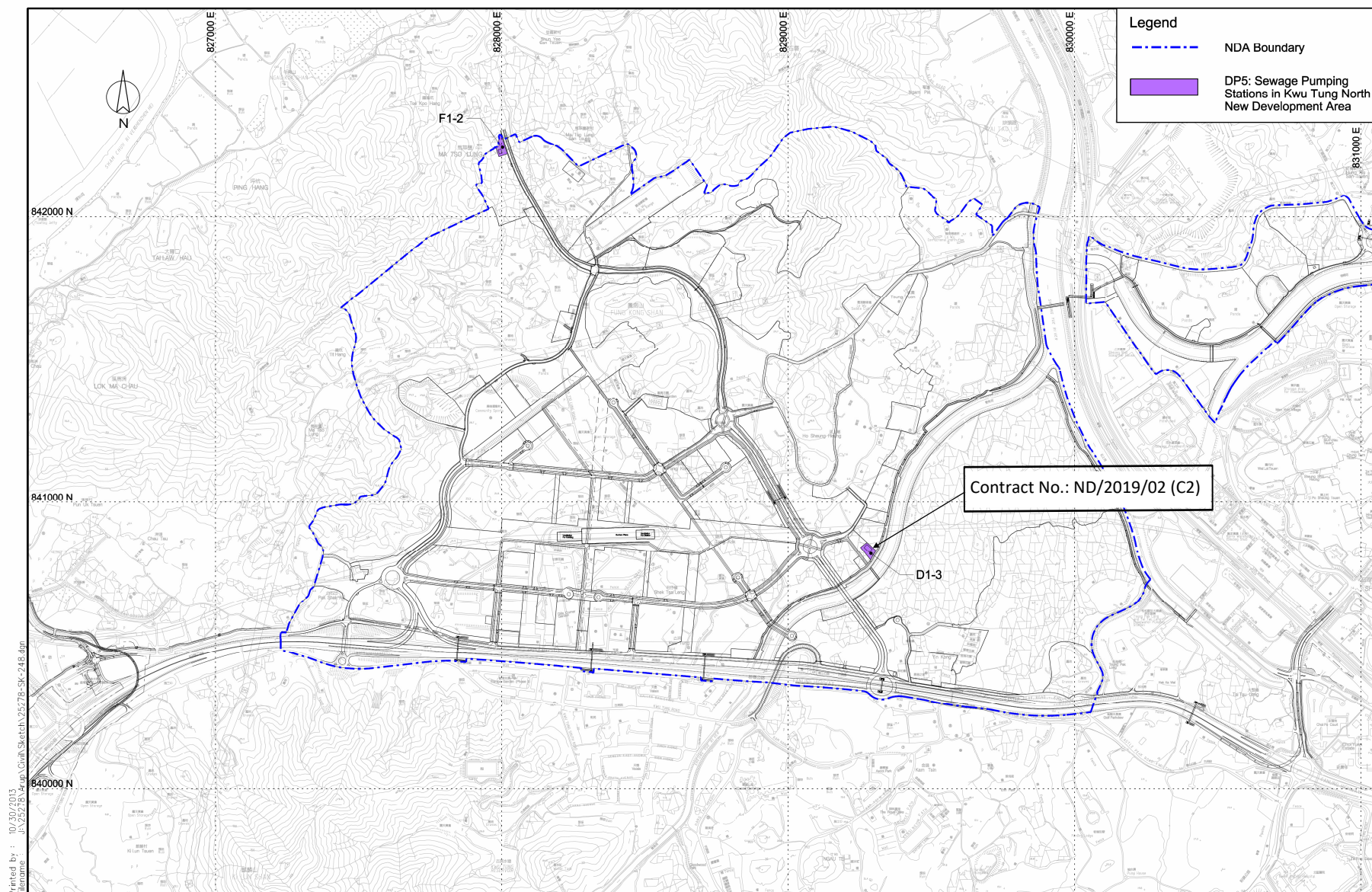
SHEET NUMBER
圖紙編號

60335576/C3/C00/1000

Figure 16

Site Layout Plan of Contract ND/2019/02

under EP-469/2013



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

Figure 1: Location Plan for the Proposed Pumping Stations

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

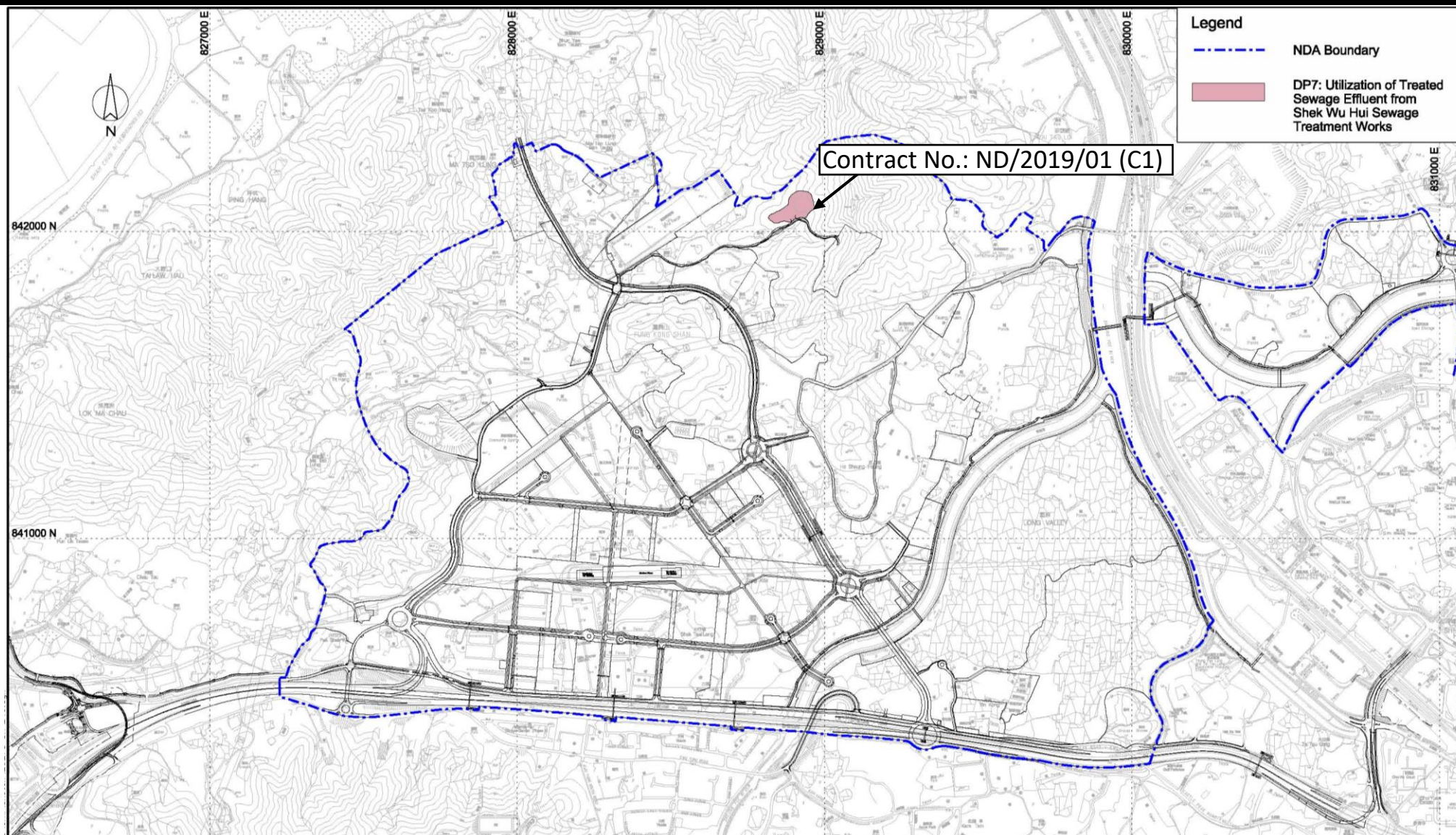
**Environmental Permit No:
EP-469/2013**



Figure 17

Site Layout Plan of Contract ND/2019/01

under EP-470/2013/A



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

Figure 1: Location Plan for the Project

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

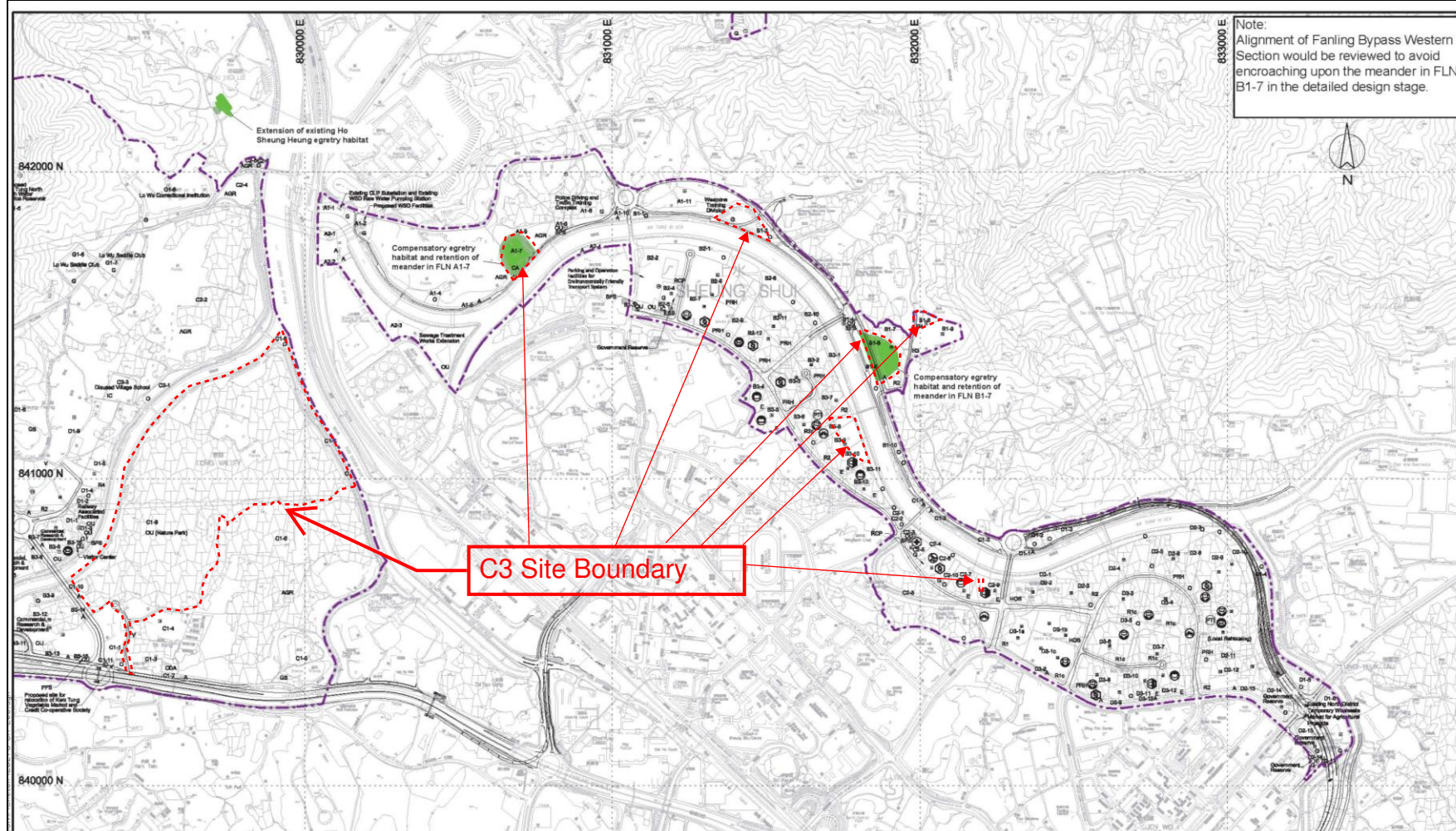
**Environmental Permit No:
EP-470/2013/A**



Figure 18

Site Layout Plan of Contract ND/2019/03

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

Figure 2: Location of Alternative Egretty Sites and Retained Meanders

圖 2: 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

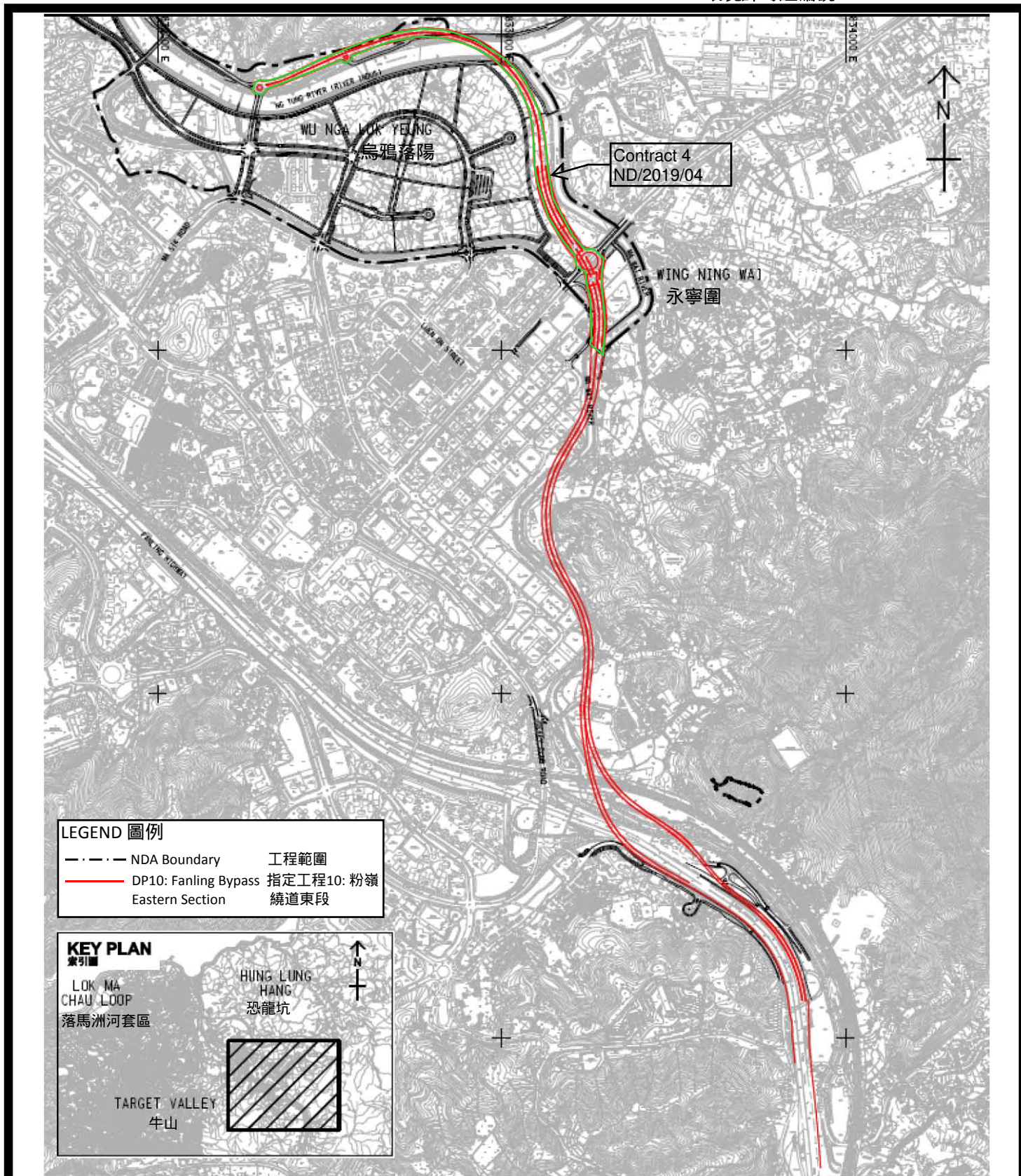
環境許可證編號: EP-473/2013/A



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:

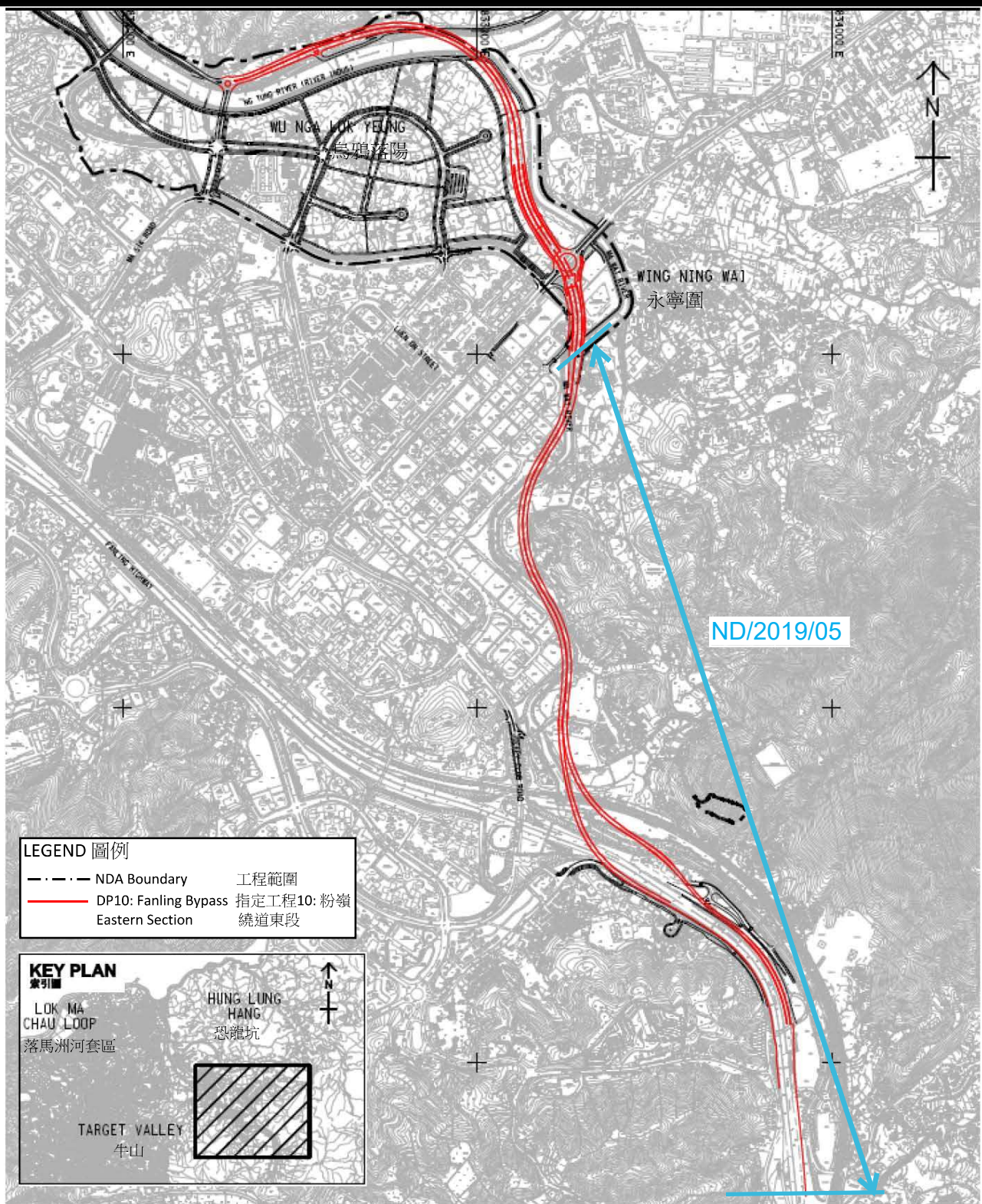
EP-473/2013/A



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:

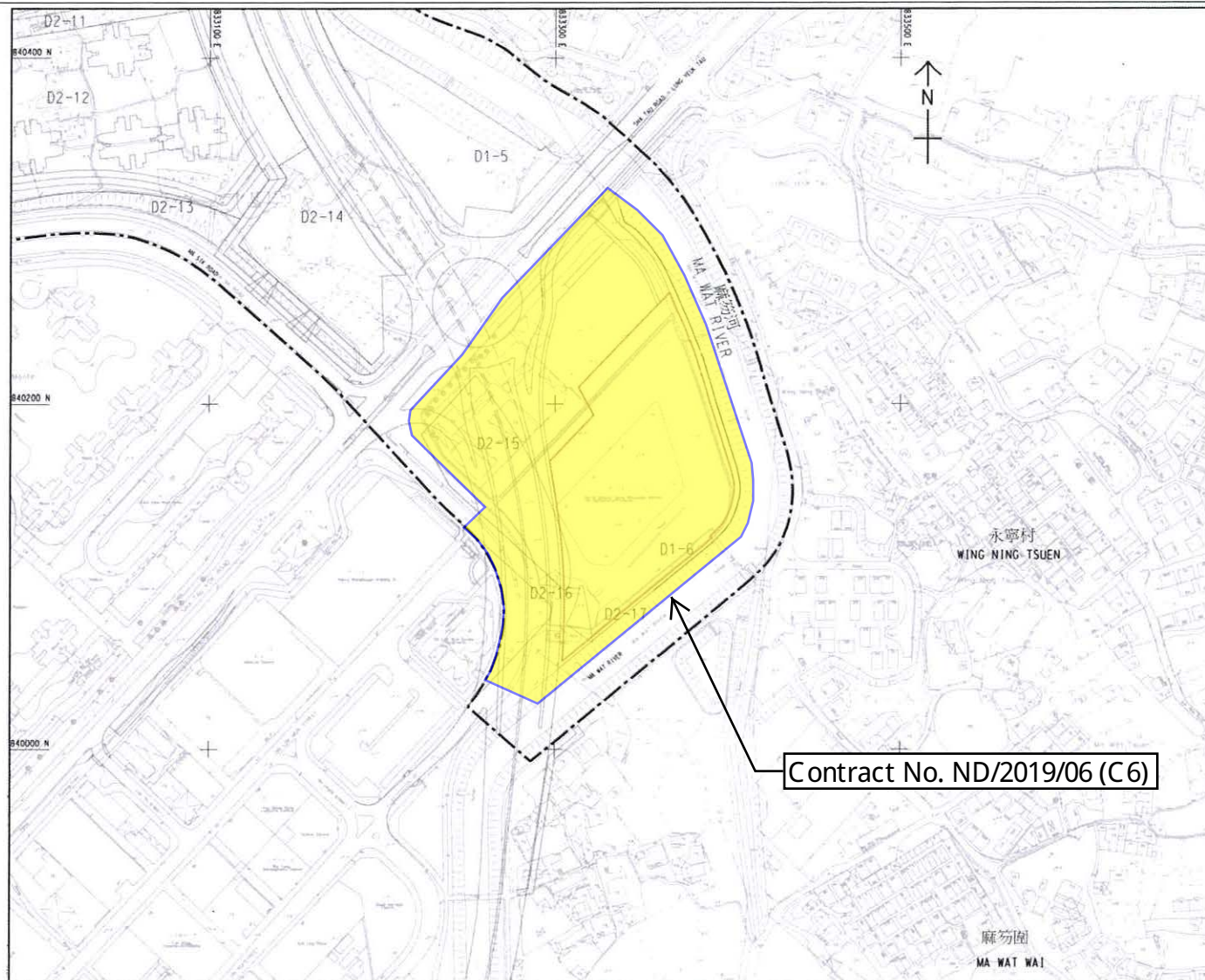
EP-473/2013/A



Figure 21

Site Layout Plan of Contract ND/2019/06

under EP-475/2013/A



圖例:

LEGEND:

- 新發展區項目邊界
NDA PROJECT BOUNDARY
- 最新位置邊界
LATEST SITE BOUNDARY



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）

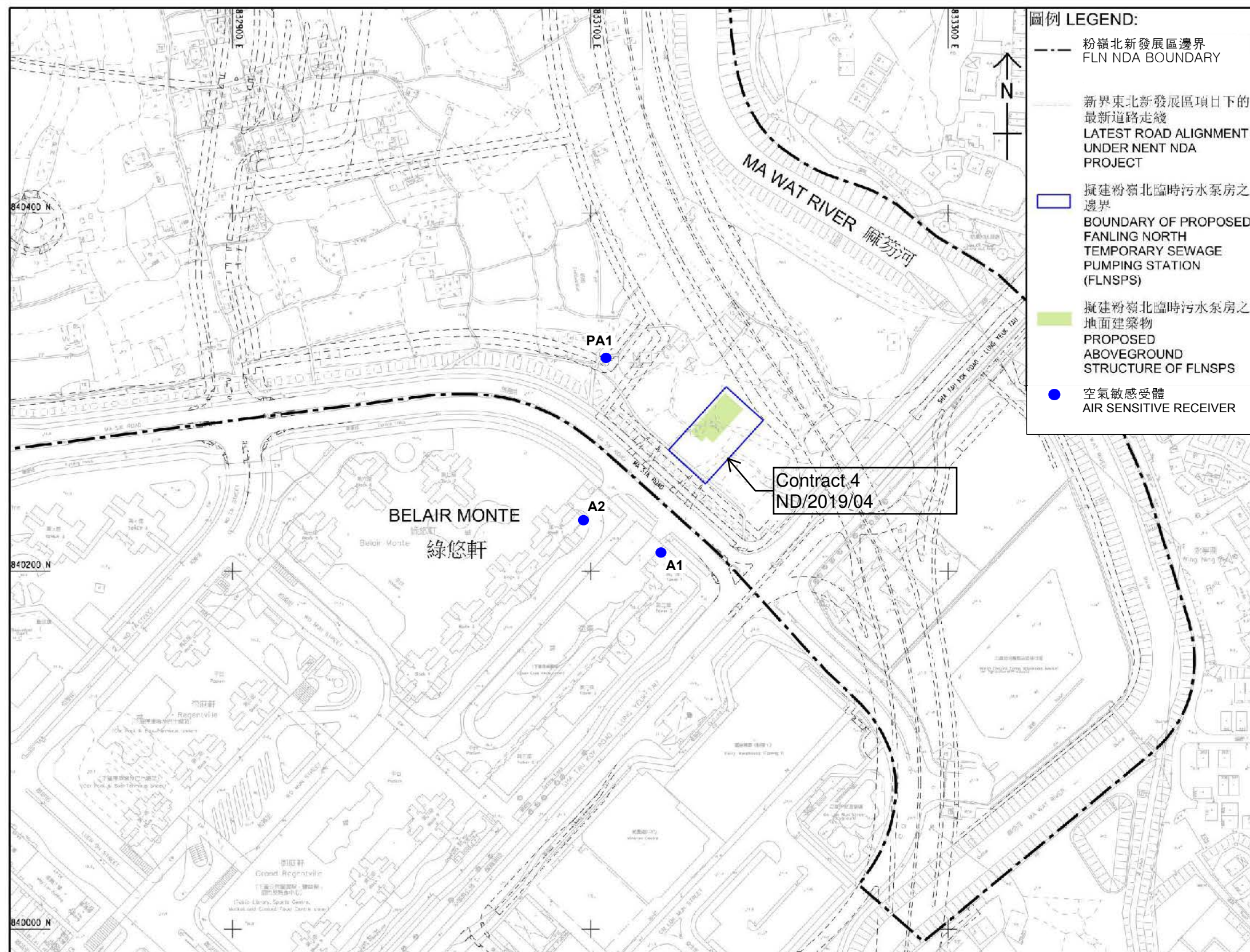
(This figure was prepared based on Figure 1.1 of VEP application (No.: VEP-516/2016))
 (本圖是根據申請更改環境許可證(編號 VEP-516/2016) 圖 1.1 編制)



Figure 22

Site Layout Plan of Contract ND/2019/04

under EP-546/2017




APPENDIX A
CONSTRUCTION PROGRAMME

Construction Programme of ND/2019/01

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024				February 2024				March 2024					
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24	
Revised Programme (2023-12-25) Rev.0																									
2.0 - Site Access Dates																									
AD-1020	Portion 1c	0	25-Dec-23*		-718	CD(7d)																			
3.0 - Site Completion Dates																									
3.2 Planned Sectional Work Completeion																									
SC-1130	Section 9 - all works in Area F	(4 days EOT granted up to 10-Sep-2022)	0		06-Dec-23 A	CD(7d)																			
6.0 - Preliminaries and General Requirements																									
6.2 - General Submissions																									
GS-1290	Preparation and Submission of Fully Corodinated BIM	1034	21-Aug-20 A	23-Dec-26	14	CD(7d)																			
GS-1230	Submission of Major Method Statements	42	06-Dec-19 A	04-Feb-24	315	CD(7d)																			
GS-1310	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Submission	15	23-Mar-24	06-Apr-24	403	CD(7d)																			
GS-1380.4	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Approval	30	23-Feb-24	23-Mar-24	125	CD(7d)																			
GS-1380.2	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Submission	15	08-Feb-24	22-Feb-24	125	CD(7d)																			
GS-1380.0	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Approval	30	09-Jan-24	07-Feb-24	125	CD(7d)																			
GS-1380	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Submission	15	25-Dec-23	08-Jan-24	125	CD(7d)																			
6.3 - Subletting Packages																									
SP-1210	Landscaping Works	18	05-Jun-23 A	11-Jan-24	579	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 (Commencement Date May-2023)	27	20-May-23 A	20-Jan-24	617	CD(7d)																			
Section 3																									
Portion 1a in Area E (Soil Treatment & Interface with HKHS's Contractors)																									
Soil Treatment																									
S3P1a-2020	Backfilling to the formation levels	48	11-Jan-24	09-Mar-24	541	WD(6d)																			
S3P1a-2000	Construct & maintain Temporary drainage	60	01-Mar-23 A	09-Mar-24	541	WD(6d)																			
S3P1a-2010	Remove soil (original assumed 17334m3) (1 / 13 EGI completed , interim soil to be excavated / treated : 1260m3 / 400m3)	12	01-Mar-23 A	10-Jan-24	319	WD(6d)																			
Section 6B																									
Portion 11b in Area G2 (Soil Treatment)																									
Preparation work/Tree Survey/Site Clearance/GI																									
S6BP11b-1012	Approval & Acceptance of Tree Felling Application	30	18-Jan-24	16-Feb-24	252	CD(7d)																			
S6BP11b-2030	Demolish Existing Building No. 12 & 14	10	04-Jan-24	15-Jan-24	221	WD(6d)																			
S6BP11b-2040	Demolish Existing Building No. 8 & 10	12	30-Jan-24	15-Feb-24	221	WD(6d)																			
S6BP11b-1020	Site Clearance & Tree Felling	54	26-Feb-24	03-May-24	205	WD(6d)																			
S6BP11b-1010	Tree survey and prepare tree felling and transplant report	18	09-Oct-23 A	17-Jan-24	204	WD(6d)																			
Section 6C																									
Portion 11b in Area G3 (Soil Treatment)																									
Preparation work/Tree Survey/Site Clearance/GI																									
S6CP11b-1012	Approval & Acceptance of Tree Felling Application	30	18-Jan-24	16-Feb-24	252	CD(7d)																			

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	S6CP1 1b-1090	Demolish Existing Building No. 13 & 15	6	23-Dec-23 A	03-Jan-24	243	WD(6d)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

Milestone

Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23

Run Date: 30-Dec-2023

Project ID: ND201901-RP-46


Lauyout: ND201901-3MRP with logo

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REVISED PROGRAMME (2023-12)

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

Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
S8P1a	S8P1a-5010	Retaining wall KW17 - Excavation for retaining wall KW17	24	05-Feb-24	06-Mar-24	-305	WD(6d)																				
	S8P1a-5000	Site clearance	18	15-Jan-24*	03-Feb-24	-305	WD(6d)																				
	S8P1a-5220	Underground Roundabout Drainage M1.82 to M1.84 and Primary drainage pipe laying (0 / 6 Completed)	60	28-Feb-24	13-May-24	-198	WD(6d)																				
	S8P1a-5212	Underground Roundabout Drainage SMHKT 1011 and Pipe Laying to SKT 1013 (0 / 1 Completed)	36	13-Jan-24	27-Feb-24	-198	WD(6d)																				
	S8P1a-5210	Underground Roundabout Drainage SMHKT 1013 and Pipe Laying to SKT 1013A (0 / 1 Completed)	14	01-Aug-23 A	12-Jan-24	-304	WD(6d)																				
	Within MTRC Protection Zone																										
	S8P1a-4210	Construction of Sewerage FMH KT 3.01D to 3.01E (0 / 2 M/H complete)	48	13-Jan-24	12-Mar-24	-198	WD(6d)																				
	S8P1a-6000	DCS Works by Others (Anticipated Start Date - 15-02-24) 'To be Confirmed'	150	15-Feb-24*	13-Jul-24	-169	CD(7d)																				
	S8P1a-4030	New Formed Cut Slope KS03 to Road Formation level	24	11-Mar-24	11-Apr-24	-514	WD(6d)																				
	S8P1a-4042	New Formed Cut Slope KS44 Slope Drainage Construction	12	11-Mar-24	23-Mar-24	-388	WD(6d)																				
	S8P1a-4040	New Formed Cut Slope KS44 to Road Formation level	12	26-Feb-24	09-Mar-24	-400	WD(6d)																				
	S8P1a-4050	New Formed Cut Slope KS44 C to Road Formation level	12	11-Mar-24	23-Mar-24	-400	WD(6d)																				
	S8P1a-4024	New Formed Cut Slope KS53 Hydroseeding	6	11-Mar-24	16-Mar-24	-376	WD(6d)																				
	S8P1a-4022	New Formed Cut Slope KS53 Slope Drainage Construction	12	26-Feb-24	09-Mar-24	-376	WD(6d)																				
	S8P1a-4020	New Formed Cut Slope KS53 to Road Formation level	24	25-Jan-24	24-Feb-24	-490	WD(6d)																				
S8P1a-4010	Site Clearance & Tree Felling	24	27-Dec-23	24-Jan-24	-490	WD(6d)																					
S8P1a-4220	Underground Roundabout Drainage M1.81 to M1.83 and Primary drainage pipe laying (0 / 3 Completed)	48	13-Mar-24	13-May-24	-198	WD(6d)																					
Portion 3 in Area A (Soil Treatment, Drainage & Roadwork)																											
Preparation work																											
S8P3-0106	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Dec-23	-54	CD(7d)																					
Civil Work																											
S8P3-3002	Backfill to Road Formation Level	30	11-Jan-24	17-Feb-24	-340	WD(6d)																					
S8P3-3000	Construct & maintain Temporary drainage	460	27-Dec-23	18-Jul-25	-434	WD(6d)																					
S8P3-3005.	New Feature KS53 - Cut slope	68	19-Feb-24	13-May-24	-340	WD(6d)																					
S8P3-3010.320	Underground Fresh watermain CHA 612 - CHA 620	12	27-Dec-23	10-Jan-24	-340	WD(6d)																					
Portion 5 in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)																											
Preparation work/Tree Survey/Site Clearance/GI																											
S8P5-0102	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Dec-23	-480	CD(7d)																					
S8P5-0108	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0		25-Dec-23	-453	CD(7d)																					
S8P5-0110	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Dec-23	-48	CD(7d)																					
S8P5-0000	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0		25-Dec-23	-108	CD(7d)																					
Construction according to CSD for Alternative on Bored Pile Wall																											
S8P5-2005	Construct & maintain Temporary drainage	425	27-Dec-23	06-Jun-25	-369	WD(6d)																					
Civil Work																											
S8P5-4060	Pipe Jacking across DJ watermain - 2 Nos 1200 dia Conc Pipe	64	08-Mar-24	28-May-24	-369	WD(6d)																					
S8P5-4048.20	Pipe Jacking across DJ watermain - Jacking Pit Excavation	28	12-Dec-23 A	29-Jan-24	-369	WD(6d)																					
S8P5-4050	Pipe Jacking across DJ watermain - Mobilization and Set Up Pipe Jacking Equipment (CNE 060, EC-1086)	30	30-Jan-24	07-Mar-24	-369	WD(6d)																					
S8P5-4048.10	Pipe Jacking across DJ watermain - Received Instructions	0		27-Dec-23*	-700	WD(6d)																					
S8P5-4004.12	Underground Fresh watermain (North bound Carriageway) CHA 726 to 750	0	04-Dec-23 A	16-Dec-23 A		WD(6d)																					
Portion 6a & 6b in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)																											
S8P6a-0002	Details of DCS pipe at D4-1 & D5 Road (EWN 030)	0		25-Dec-23	-480	CD(7d)																					
S8P6a-0005	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Dec-23	-480	CD(7d)																					
Preparation work/Tree Survey/Site Clearance/GI																											
S8P6a-1010	Site Clearance & Tree Felling	0	15-Feb-20 A	02-Dec-23 A		WD(6d)																					
Construction according to CSD for Alternative on Bored Pile Wall																											
S8P6a-2004	Construct & maintain Temporary drainage	482	27-Dec-23	13-Aug-25	-391	WD(6d)																					



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

◆

◆ Milestone

◆

◆ Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)


Data Date: 25-Dec-23Run Date: 30-Dec-2023

Project ID: ND201901-RP-46
Lauyout: ND201901-3MRP with logo
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REVISED PROGRAMME (2023-12)

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

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
Civil Work																										
S8P6a-7040	KB01 (Bay 1 to 12) - Backfilling to formation level	40	28-Sep-23 A	15-Feb-24	-81	WD(6d)																				
S8P6a-7060	KB01 (Bay 1 to 12) - Construct Drainage & Maintenance Access	24	16-Feb-24	14-Mar-24	-81	WD(6d)																				
S8P6a-7030	Road D4 - Backfill to Road Formation CH 290 to CH 400	60	24-Nov-23 A	09-Mar-24	-137	WD(6d)																				
S8P6a-6010	Road D4 - Laying DCS Pipes (CH 156 to CH 168)	26	01-Feb-24	05-Mar-24	-391	WD(6d)																				
S8P6a-7012	Road D4 - Testing and Commissioning (T&C) for DCS Works CH 230 to CH 550	50	31-Jan-24	20-Mar-24	-70	CD(7d)																				
S8P6a-6012	Road D4 -Construct DCS Chamber @ CH 164.7	30	22-Nov-23 A	31-Jan-24	-391	WD(6d)																				
S8P6a-6022	Road D4 Underground Fresh Watermain CHA 950 to CH 986	24	06-Mar-24	06-Apr-24	-391	WD(6d)																				
S8P6a-6020	Road D4 Underground Fresh Watermain Chamber Construction	48	21-Dec-23 A	24-Feb-24	-365	WD(6d)																				
S8P6a-6024	Road D4 Underground Secondary Drainage M2.40-1, M2.40, M2.41-1	0	04-Dec-23 A	18-Dec-23 A		WD(6d)																				
Portion 9b & 9d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)																										
S8P9b-3128	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3162	Additional Works for Installation of Watermains by Trenchless Construction Method along Road D4 (EWN 095) (CNE 136)	0		25-Dec-23	-201	CD(7d)																				
S8P9b-3168	Changes to the design & alignment of the section of DN600 flusing watermain CHQ at Road D4 in Portion 9b (CNE 152)	0		25-Dec-23	-581	CD(7d)																				
S8P9b-3112	Conflict between Drainage Works and Existing Twin DN2200 Dongjiang Water Mains (CNE 051) (CE 150)	0		25-Dec-23	-860	CD(7d)																				
S8P9b-3142	Delay to the Diversion of Existing Fresh Watermains along/near Ma Tso Lung Road at Portion 9b of the Site (EWN 076)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3150	Delay to the Diversion/ Modification of Existing HKT Pillar Boxes & Associated Ducts Ma Tso Lung Road Por. 9b (CNE 096)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3140	Delay to the Diversion/Modificaton of Existing HKT Pillar Boxes Ma Tso Lung Rd (EWN 075)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3144	Delay to the Relocation of Existing Fire Hydrant in Ma Tso Lung Road at Portion 9b of the Site (EWN 077) (CNE 129)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-0004	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-0003	Details of DCS pipe at D4-1 & D5 Road (EWN 030)	0		25-Dec-23	-697	CD(7d)																				
S8P9b-3148	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Dec-23	-697	CD(7d)																				
S8P9b-3126	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0		25-Dec-23	-860	CD(7d)																				
S8P9b-3154	Late Provision of Add Work Area for the Construction of Drainages and Slopes Outside Site Boundary Portion 9b (CNE 098)	0		25-Dec-23	-315	CD(7d)																				
S8P9b-3130	Part of Portion 9b of the Site (near eastern end of Road D5) occupied by the Local Villagers (EWN 066)	0		25-Dec-23	-275	CD(7d)																				
S8P9b-3132	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Dec-23	-359	CD(7d)																				
S8P9b-3156	Provision of Spare Pipes for the Proposed Watermains adopting Trenchless Construction Method at Road D4 (EWN 091)	0		25-Dec-23	-860	CD(7d)																				
S8P9b-3166	Revised longitudinal profile & layout for the watermains & DN150 branch pipes to the fire hydrants Road D4,D5 (CNE 149)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3164	Revised longitudinal profile and layout for the watermains CHA, CHD & CHQ along Road D4 in Portion 9b (CNE 148)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3172	Revised Road Layout and Setting Out of Fill Slope KS12 at Road D4 in Portion 9b of the Site (CNE 154)	0		29-Dec-23	-18	CD(7d)																				
S8P9b-3146	Revised Sewerage System along Road D4 and D5 at Portion 9b of the Site (CNE 083)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3124	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Dec-23	-522	CD(7d)																				
S8P9b-3170	Temporary Lighting Proposal for the Temporary Road in Ma Tso Lung Road at Portion 9b of the Site (EWN 096)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-3158	Uncharted Watermain Encountered during Construction of Proposed UU along existing Ma Tso Lung Road (EWN 094) (CNE 135)	0		25-Dec-23	-522	CD(7d)																				
S8P9b-3152	Unrecognized Construction Works for Newly Underground Cables and Facilities conducted by CLP at Portion 9b (EWN 083)	0		25-Dec-23	-860	CD(7d)																				
Preparation work/Tree Survey/Site Clearance/GI																										
S8P9b-0005	Late Possession of Site of Portions 9b & 9d (CNE No. 007) (EWN No. 011) (CE 022)	0		25-Dec-23	-817	CD(7d)																				
S8P9b-0006	Removal of Existing CLP Facilities (EWN No. 018)	0		25-Dec-23	-275	CD(7d)																				
S8P9b-1010	Site clearance & Tree Felling	0	25-Jun-22 A	05-Dec-23 A		WD(6d)																				
Civil Work																										
S8P9b-3000	Construct & maintain Temporary drainage	790	27-Dec-23	26-Aug-26	-704	WD(6d)																				
S8P9b-3012.20	Duration of TTA	365	02-Jan-24	31-Dec-24	-395	CD(7d)																				
S8P9b-3101	Duration of TTA	135	27-Dec-23	13-Jun-24	-397	WD(6d)																				
S8P9b-3262.00	Jacking Pit - Driving pipe pile for jacking pipe	54	16-Jan-24	21-Mar-24	-716	WD(6d)																				
S8P9b-3262.02	Jacking Pit - Excavation & ELS works for cofferdam (11m depth)	80	22-Mar-24	02-Jul-24	-716	WD(6d)																				
S8P9b-3262.0	Jacking Pit - Set Up and Mobilization	16	23-Dec-23 A	15-Jan-24	-716	WD(6d)																				
S8P9b-3108	Ma Tso Lung Road D4-2 - Construction Underground Drainage M 3.91 pipe to KT 7110 and KT 7109 to M.395 (1 / 4 Complete)	30	03-Oct-23 A	31-Jan-24	-427	WD(6d)																				



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Planned Work

Critical Work

Actual Work

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Summary LOE

Summary LOE Critical

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Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
S8P9b	S8P9b-3108.10	Ma Tso Lung Road D4-2 - Laying Watermain (CH 994 to Rd W1)	36	25-Sep-23 A	07-Feb-24	-433	WD(6d)	<div></div>																			
	S8P9b-3108.20	Ma Tso Lung Road D4-2 -DCS Works by Others (CH 994 to Rd W1) (Anticipated Commencement Date Feb-2024) 'To be Confirmed'	90	08-Feb-24	07-May-24	-532	CD(7d)	<div></div>																			
	S8P9b-3262.13	Receiving Pit - Excavation & ELS works for cofferdam	80	16-Mar-24	25-Jun-24	-669	WD(6d)	<div></div>																			
	S8P9b-3262.110	Receiving Pit - Approval of Watermain Chamber Design by WSD / ICE	0	25-Dec-23*		-817	CD(7d)	◆ Receiving Pit - Approval of Watermain Chamber Design by WSD / ICE																			
	S8P9b-3262.11	Receiving Pit - Construct Temporary Road E2 and Implement TTA	5	04-Dec-23 A	02-Jan-24	-669	WD(6d)	<div></div>																			
	S8P9b-3262.12	Receiving Pit - Driving Pipe Pile	60	03-Jan-24	15-Mar-24	-669	WD(6d)	<div></div>																			
	S8P9b-3262.111	Receiving Pit - Duration of TTA	867	03-Jan-24	18-May-26	-888	CD(7d)	<div></div>																			
	S8P9b-3057.14	Road D4 (CH 400 - CH 630) - Backfill to Road Formation	48	05-Feb-24	08-Apr-24	-200	WD(6d)	<div></div>																			
	S8P9b-3057.08	Road D4 (CH 400 - CH 630) - Underground Fresh Watermain	33	12-Jan-23 A	03-Feb-24	-200	WD(6d)	<div></div>																			
	S8P9b-3057.10	Road D4 (CH 400 to CH 630) - Laying DCS Pipes	29	31-May-23 A	30-Jan-24	-196	WD(6d)	<div></div>																			
	S8P9b-3010	Road D4 (CH 780 to CH 970) - Construction of Underground Drainage SMH KT5010 to SMH KT5014 (5/5 MH Complete)	0	28-Oct-23 A	11-Dec-23 A		WD(6d)	<div></div>																			
	S8P9b-3022.10	Road D4 (CH 780 to CH 970) - Construction of Underground Drainage SMHKT 7018 to SMHKT 7019 (0/2 MH Complete)	30	15-Dec-23 A	31-Jan-24	-156	WD(6d)	<div></div>																			
	S8P9b-3012.10	Road D4 (CH 780 to CH 970) - Backfill & Constuct Temp Road	0	01-Dec-23 A	22-Dec-23 A		WD(6d)	<div></div>																			
	S8P9b-3014	Road D4 (CH 780 to CH 970) - Implement TTA and Road Diversion	0		02-Jan-24*	-825	CD(7d)	◆ Road D4 (CH 780 to CH 970) - Implement TTA and Road Diversion																			
	S8P9b-3016	Road D4 (CH 780 to CH 970) - Laying DCS Pipes	150	20-Jan-24	25-Jul-24	-319	WD(6d)	<div></div>																			
	S8P9b-3022.20	Road D4 (CH 780 to CH 970) - Laying Watermain After TTA	36	01-Feb-24	16-Mar-24	-156	WD(6d)	<div></div>																			
	S8P9b-3012	Road D4 (CH 780 to CH 970) - Laying Watermain Before TTA	0	13-Sep-23 A	13-Dec-23 A		WD(6d)	<div></div>																			
	S8P9b-6090	Road D4 - New Formed Sloping Ground KS21 Compact fill	48	02-Mar-24	02-May-24	-199	WD(6d)	<div></div>																			
	S8P9b-3262	Road D4 Across DJ Watermain - Approval of Watermain Chamber Design by WSD / ICE	0	25-Dec-23		-860	CD(7d)	◆ Road D4 Across DJ Watermain - Approval of Watermain Chamber Design by WSD / ICE																			
	S8P9b-3058.20	Road D5 - DCS Works by Others Portion A1 (Commencement Date Jul-2023)	14	13-Jul-23 A	07-Jan-24	-245	CD(7d)	<div></div>																			
	S8P9b-3058.24	Road D5 - DCS Works by Others Portion A2 (Commencement Date Aug-2023)	14	07-Aug-23 A	07-Jan-24	-245	CD(7d)	<div></div>																			
	S8P9b-3058.22	Road D5 - DCS Works by Others Portion B (Commencement Date Jul-2023)	14	13-Jul-23 A	07-Jan-24	-272	CD(7d)	<div></div>																			
	S8P9b-3058.105	Road D5 - Laying Remaining Watermain (CH D & CH QB) After DCS Works	36	08-Jan-24	21-Feb-24	-223	WD(6d)	<div></div>																			
	S8P9b-3058.100	Road D5 - Laying Watermain (CH PA, CH ZB & CH H)	25	25-Oct-23 A	25-Jan-24	-203	WD(6d)	<div></div>																			
	S8P9b-6080	Road D5 - New Formed Sloping Ground KS20 Cut	48	02-Mar-24	02-May-24	-199	WD(6d)	<div></div>																			
	S8P9b-3058.110	Road D5 - Underground Utilities by others	36	22-Feb-24	08-Apr-24	-223	WD(6d)	<div></div>																			
	S8P9b-3036	Road W1 (CH100 to CH310) - Road Works	29	23-Nov-23 A	30-Jan-24	-199	WD(6d)	<div></div>																			
	S8P9b-3030.04	Road W1 (CH100 to CH310) - Pressure test for Fresh & Flushing watermain	24	31-Jan-24	01-Mar-24	-199	WD(6d)	<div></div>																			
	S8P9b-6100	Road W1 - New Formed Sloping Ground KS22 Compact fill	48	02-Mar-24	02-May-24	-99	WD(6d)	<div></div>																			
	S8P9b-6110	Road W1 - New Formed Sloping Ground KS23 Compact fill	48	02-Mar-24	02-May-24	-99	WD(6d)	<div></div>																			
	S8P9b-3001.04	Slopeworks for new feature KS19 - Berm, Stairs & Maintenance Access Construction	88	27-Dec-23	16-Apr-24	-178	WD(6d)	<div></div>																			
	S8P9b-3262.100	Underground Primary Drainage Works SMHKT 5005 - KT 5007b (0 / 3 MH complete)	72	22-Mar-24	21-Jun-24	-260	WD(6d)	<div></div>																			
	Portion 8a in Area A (Soil Treatment, Reservoirs, Slope, Drainage & Roadwork)																										
S8P8a-1108	Additional DN600 watermain between FLWSR and FWSR via Road W1 at Portion 8b (CNE 147)	0		25-Dec-23	-124	CD(7d)	◆ Additional DN600 watermain between FLWSR and FWSR via Road W1 at Portion 8b (CNE 147)																				
S8P8a-1100	Assumed resumption date of fresh and flushing reservoirs construction due to CNE No. 006 & EWN No. 005 (CE 019)	0		25-Dec-23	-601	CD(7d)	◆ Assumed resumption date of fresh and flushing reservoirs construction due to CNE No. 006 & EWN No. 005 (CE 019)																				
S8P8a-1106	Design Change on Road W1 (EWN 025)	0		25-Dec-23	-89	CD(7d)	◆ Design Change on Road W1 (EWN 025)																				
S8P8a-1107	Insufficient Width of Road W1 for Accommodation of All Underground Utilities (CNE 056)	0		25-Dec-23	-264	CD(7d)	◆ Insufficient Width of Road W1 for Accommodation of All Underground Utilities (CNE 056)																				
Preparation work/Tree Survey/Site Clearance/GI																											
S8P8a-1035	Remaining Ground investigation (0 / 1 GI completed) to Fresh Water Service Reservoir	12	27-Dec-23	10-Jan-24	-247	WD(6d)	<div></div>																				
Forming Site Access and Site Fomation																											
Stage 1 General Excavation near Flushing Water Servie Reservior (Excavation Volume 52834 m3)																											
S8P8a-1160	General excavation for remaining of Road W1	75	11-Jun-20 A	27-Mar-24	-310	WD(6d)	<div></div>																				
KD8 - complete all works for fresh water and flushing water services reservoirs, pipe laying & road																											
S8K8-6002	Strong Objection on the Construction of Fresh and Flushing Reservoirs (EWN 031) Maintenance Access beside KS47	0		25-Dec-23	-601	CD(7d)	◆ Strong Objection on the Construction of Fresh and Flushing Reservoirs (EWN 031) Maintenance Access beside KS47																				
Construction of Kwu Tung North Flushing Water Service Reservoir (KTN FLWSR)																											
Civil Works																											
S8K8-1040	Backfilling (6559m3)	108	01-Feb-24	17-Jun-24	-146	WD(6d)	<div></div>																				



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Planned Work

Critical Work

Actual Work

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Summary LOE

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Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
S8K8	S8K8-1005	Construct & maintain Temporary drainage	138	27-Dec-23	17-Jun-24	-146	WD(6d)																				
	S8K8-1038	Install Watermains inside Chambers	30	22-Feb-23 A	31-Jan-24	-146	WD(6d)																				
	S8K8-1160	Roof - Pond Roof for Roof & Drainge Water Tightness Test	12	07-Mar-24	20-Mar-24	-87	WD(6d)																				
	S8K8-1170	Roof - Roof & Drainge Water Tightness Test	12	21-Mar-24	01-Apr-24	-109	CD(7d)																				
	S8K8-1120	Tank No. 2 - Fill up Tank No. 2 for Water Tightness Test	0	16-Nov-23 A	25-Nov-23 A		WD(6d)																				
	S8K8-1130	Tank No. 2 - Water Tightness Test	0	04-Dec-23 A	20-Dec-23 A		CD(7d)																				
	S8K8-1140	Whole Structure - Fill up Tank No.1 & 2 for Water Tightness Test	30	15-Jan-24	21-Feb-24	-87	WD(6d)																				
	S8K8-1150	Whole Structure - Tank No. 1 & 2 Water Tightness Test	14	22-Feb-24	06-Mar-24	-108	CD(7d)																				
	E&M Works																										
	S8K8-2010	Design and Approval for E&M works for KTN FLWSR	47	01-Feb-21 A	09-Feb-24	-286	CD(7d)																				
	S8K8-2030	Procurement of E&M equipment for KTN FLWSR	95	15-Aug-22 A	07-Jun-24	-286	CD(7d)																				
	S8K8-2020	Submission and Approval of E&M plants & materials for KTN FLWSR	71	01-Feb-21 A	04-Mar-24	-286	CD(7d)																				
	S8K8-2040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FLWSR	120	21-Mar-24	16-Aug-24	-231	WD(6d)																				
	Construction of Kwu Tung North Freshwater Service Reservoir (KTN FWSR)																										
	S8K8-6044	Potential Delay on Supply of Steel Moulds for Construction of Fresh Water Service Reservoir(FWSR) (EWN 053)	0		25-Dec-23	-179	CD(7d)																				
	S8K8-6034	Revised Construction Drawings of Fresh Water Service Reservoir (CNE 067, 067a)	0		25-Dec-23	-194	CD(7d)																				
	Civil Works																										
	S8K8-1030	Back Filling for Construction of Inlet Chamber	12	27-Dec-23	10-Jan-24	-161	WD(6d)																				
	S8K8-3000	Construct & maintain Temporary drainage	260	27-Dec-23	11-Nov-24	-161	WD(6d)																				
	S8K8-1032	Construction of Inlet Chamber	48	11-Jan-24	09-Mar-24	-161	WD(6d)																				
	S8K8-3058	Grout block work	6	16-Jan-24	22-Jan-24	-492	WD(6d)																				
	S8K8-3038	Install Watermains inside Chambers	100	11-Mar-24	13-Jul-24	-161	WD(6d)																				
	S8K8-3056	Pipe Pile construction (2 / 75 Completed)	16	24-Nov-23 A	15-Jan-24	-492	WD(6d)																				
	S8K8-3052.40	Road W5 - Cut Slope & Install Soil Nail Row D & C (54 Nos)	(Stage 2)	0	27-Nov-23 A	07-Dec-23 A		CD(7d)																			
	S8K8-3052.30	Road W5 - Cut Slope & Install Soil Nail Row F & E (44 Nos)	(Stage 2)	0	23-Nov-23 A	25-Nov-23 A		CD(7d)																			
S8K8-3052.50	Road W5 - Cut Slope & Install Soil Nail Row A (54 Nos)	(Stage 2)	0	08-Dec-23 A	20-Dec-23 A		CD(7d)																				
S8K8-3250	Road W5 - Interface Slope between KS47 and Road W5 Slope	72	09-Feb-24	11-May-24	-349	WD(6d)																					
S8K8-3040.10	Tank No. 1 - Fill up Tank No. 1 for Water Tightness Test & Water Sterility Test	42	27-Dec-23	17-Feb-24	-95	WD(6d)																					
S8K8-3040.20	Tank No. 1 - Water Tightness Test & Water Sterility Test	14	18-Feb-24	02-Mar-24	-117	CD(7d)																					
S8K8-3040.30	Tank No. 2 - Fill up Tank No. 2 for Water Tightness Test & Water Sterility Test	42	04-Mar-24	25-Apr-24	-95	WD(6d)																					
S8K8-3060	Up Hill Receving Pit - Excavation & Construction	62	23-Jan-24	11-Apr-24	-492	WD(6d)																					
E&M Works																											
S8K8-4010	Design and Approval for E&M works for KTN FWSR	47	20-Dec-21 A	09-Feb-24	-262	CD(7d)																					
S8K8-4030	Procurement of E&M equipment for KTN FWSR	95	15-Aug-22 A	07-Jun-24	-286	CD(7d)																					
S8K8-4020	Submission and Approval of E&M plants & materials for KTN FWSR	71	15-Mar-22 A	04-Mar-24	-286	CD(7d)																					
S8K8-4040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FWSR	140	27-Feb-24	16-Aug-24	-231	WD(6d)																					
Remaining pipe laying work and roadworks within Road W1 & W2																											
S8K8-4100.10	Road W1 - Backfilling to Formation Level of Watermain (SMH KT 8105 to 7008A connection)	30	24-Feb-24	02-Apr-24	-62	WD(6d)																					
S8K8-4100.00	Road W1 - Construction of Drainage Manhole SMH KT 8105 to 7008A connection (1 / 3 M/H complete)	47	23-May-23 A	23-Feb-24	-62	WD(6d)																					
S8K8-4100.0	Road W1 - Excavation for Construction of Drainage Manhole (SMH KT 8105 to 7008A connection)	7	15-May-23 A	04-Jan-24	-222	WD(6d)																					
S8K8-4110	Road W1 - ExcavationConstruction of Drainage Manhole (SMH KT 7007 to 8103)	24	15-Mar-24	16-Apr-24	-279	WD(6d)																					
S8K8-4200.10	Road W2 - Construction of Drainage Manhole SMH KT 7002 connection to 8012 (0 / 4 M/H complete)	72	28-Feb-24	28-May-24	-143	WD(6d)																					
S8K8-4200.0	Road W2 - Excavaton & ELS for Drainage Construction Manhole SMH KT 7002 connection to 8012	50	23-Dec-23 A	27-Feb-24	-143	WD(6d)																					
Remaining Civil Work in Portion 8a Area A																											
S8P8a-3046	Construct & maintain Temporary drainage	424	27-Dec-23	05-Jun-25	-325	WD(6d)																					
S8P8a-2562	Construction of retaining wall KW06 bay 1 - bay 7 (bays 7/7 Base Slab & 6/7 Walls completed)	0	21-Jun-23 A	09-Dec-23 A		WD(6d)																					
S8P8a-5032	Divert Traffic to Road A5	1	29-Jan-24	29-Jan-24	-43	WD(6d)																					



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Milestone

Milestone Critical

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Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
S8P8a-6020	S8P8a-6020	KW05 at CH400 to CH500 - Backfilling to Formation Level For Drainage Construction SMH KT 7017 Connction to 7014	4	20-Nov-23 A	30-Dec-23	-323	WD(6d)																				
	S8P8a-6022	KW05 at CH400 to CH500 - Construction of Drainage Manhole SMH KT 7017 Connectiontion to 7014 (0/4 M/H complete)	85	15-Jan-24	30-Apr-24	-323	WD(6d)																				
	S8P8a-6012	KW06 at CH500 to CH600 - Backfilling to Formation Level For Drainage Constructon SMH KT 7014 Connection to 7011A connec	24	04-Mar-24	03-Apr-24	-325	WD(6d)																				
	S8P8a-6006.10	KW06 at CH600 to CH700 - Construction of Drainage Manhole SMH KT 7011A to 7009 (0 / 5 M/H complete)	100	05-Jan-24	09-May-24	-290	WD(6d)																				
	S8P8a-6006.0	KW06 at CH600 to CH700 - Remaining Backfill for Construction of Drainage Manhole SMH KT 7011A to 7009	54	18-Dec-23 A	02-Mar-24	-290	WD(6d)																				
	S8P8a-6000.10	KW11 at CH770 to CH785 - Backfill to level of utilities laying (SMH KT 7006B to 7005)	0	05-Oct-23 A	09-Dec-23 A		WD(6d)																				
	S8P8a-6002	KW11 at CH770 to CH785 - Backfilling to Formation Level of Watermain (SMH KT 7006B to 7005)	24	15-Mar-24	16-Apr-24	-209	WD(6d)																				
	S8P8a-6001	KW11 at CH770 to CH785 - Construction of Drainage Manhole SMH KT 7006B to 7005 (0 / 3 M/H complete)	64	11-Dec-23 A	14-Mar-24	-279	WD(6d)																				
	S8P8a-5900	KW11 at CH785 to CH850 - Backfill / Excavation to level of utilities laying (SMH KT 7005 connection to 7002)	11	16-Oct-23 A	09-Jan-24	-269	WD(6d)																				
	S8P8a-5900.20	KW11 at CH785 to CH850 - Backfilling to Formation Level of Watermain (SMH KT 7005 to 7002)	30	22-Feb-24	27-Mar-24	-269	WD(6d)																				
	S8P8a-5900.10	KW11 at CH785 to CH850 - Construction of Drainage Manhole SMH KT 7005 connection to 7002 (0 / 5 M/H complete)	45	19-Dec-23 A	21-Feb-24	-269	WD(6d)																				
	S8P8a-2604	Retaining wall KW05 - Drainage Construction	90	27-Dec-23	18-Apr-24	-141	WD(6d)																				
	S8P8a-2564	Retaining wall KW06 - Drainage Construction	90	27-Dec-23	18-Apr-24	-141	WD(6d)																				
	S8P8a-5020.	Road A5 - New Formed Rock Fill Slope KS52	0	25-Apr-23 A	15-Dec-23 A		WD(6d)																				
	S8P8a-5030	Road A5 - Road Works	24	30-Dec-23	27-Jan-24	-268	WD(6d)																				
	S8P8a-5000	Road A5 - Site Formation Works	0	23-Mar-23 A	04-Dec-23 A		WD(6d)																				
	S8P8a-6030	Road W1 - Backfilling to Formation Level of Watermain (SMH KT 7019A Connection to 7018A)	48	29-Feb-24	29-Apr-24	-238	WD(6d)																				
	S8P8a-6028.10	Road W1 - Construction of Drainage Manhole SMH KT 7019A Connection to 7018A(0 / 2 M/H complete)	30	22-Jan-24	28-Feb-24	-238	WD(6d)																				
	S8P8a-6060	Road W1 - ELS & Excavation for Construction of Drainage Manhole SMH KT 7018A Connection to 7018	54	22-Jan-24	27-Mar-24	-310	WD(6d)																				
	S8P8a-6028.0	Road W1 - ELS & Excavation for Construction of Drainage Manhole SMH KT 7019A Connection to 7018A	21	21-Oct-23 A	20-Jan-24	-310	WD(6d)																				
	S8P8a-2090.20	Slopeworks for KS27 - Construct Remaining Slope Drainage	24	18-Mar-24	18-Apr-24	-141	WD(6d)																				
	S8P8a-5022	Slopeworks for KS52 - Construct Slope Drainage	0	14-Nov-23 A	12-Dec-23 A		WD(6d)																				
	S8P8a-4030	Slopeworks for new feature KS25 - Remaing Hydroseeding	6	15-Mar-24	21-Mar-24	-43	WD(6d)																				
	S8P8a-4010	Slopeworks for new feature KS25 - Construct Remaining Slope Drainage	24	16-Feb-24	14-Mar-24	-43	WD(6d)																				
S8P8a-4000	Slopeworks for new feature KS25 - Remaing Cut Slope	12	30-Jan-24	15-Feb-24	-43	WD(6d)																					
Portion 8b in Area A (Soil Treatment & Install Watermains by Trenchless / Open Trench Method)																											
S8P8b-1002	Assumed resumption date of fresh and flushing reservoirs construction due to CNE No. 006 & EWN No. 005 (CE 019)		0		25-Dec-23	-607	CD(7d)	◆ Assumed resumption date of fresh and flushing reservoirs construction due to CNE No. 006 & EWN No. 005 (CE 019)																			
S8P8b-1008	Change of Road Layout of Ho Sheung Heung Road after the Works by DSD Contract DC/2019/06 (CNE 072b)		0		25-Dec-23	-752	CD(7d)	◆ Change of Road Layout of Ho Sheung Heung Road after the Works by DSD Contract DC/2019/06 (CNE 072b)																			
S8P8b-8174	Damage to the Micro-TBM and associated plants & equipment during the Red and Black Rainstorm at SYR (CNE 137a)		0		25-Dec-23	-165	CD(7d)	◆ Damage to the Micro-TBM and associated plants & equipment during the Red and Black Rainstorm at SYR (CNE 137a)																			
S8P8b-8170	Increased Risk for Suspension Pipe Jacking Flushing Watermains underneath MTRC Zone Portion 8b (EWN 080) (CNE 092, 092a)		0		25-Dec-23	-165	CD(7d)	◆ Increased Risk for Suspension Pipe Jacking Flushing Watermains underneath MTRC Zone Portion 8b (EWN 080) (CNE 092, 092a)																			
S8P8b-8176	Revised Pre-determined Alignment of DN600 Flushing Watermains (CH Y 1022 to 1040) at DSD Access (CNE 150)		0		25-Dec-23	-19	CD(7d)	◆ Revised Pre-determined Alignment of DN600 Flushing Watermains (CH Y 1022 to 1040) at DSD Access (CNE 150)																			
S8P8b-8178	Revised Pre-determined Alignment of DN600 Flushing Watermains (CH Y 1022 to 1040) at DSD Access (CNE 150)		0		25-Dec-23	-731	CD(7d)	◆ Revised Pre-determined Alignment of DN600 Flushing Watermains (CH Y 1022 to 1040) at DSD Access (CNE 150)																			
Construction of Watermains																											
Construction of watermains by trenchless method																											
S8P8b-4000	Construct & maintain Temporary drainage		392	27-Dec-23	25-Apr-25	-317	WD(6d)																				
S8P8b-4012.22	GPR & Micrometemor Survey, Reporting & Approval from MTRC		0	27-Dec-22 A	09-Dec-23 A		WD(6d)																				
S8P8b-4012.30	Inclined Driling & Grouting 24 Nos holes (2 Rigs / 2 Working nights per week)		72	11-Jan-24	19-Sep-24	-245	WD(2d)																				
S8P8b-4013.06	SYR Rescue Pit - ELS & Excavation		50	13-Mar-24	16-May-24	-270	WD(6d)																				
S8P8b-4013.00	SYR Rescue Pit - Excavate Trial Pit		6	09-Jan-24	15-Jan-24	-270	WD(6d)																				
S8P8b-4013.02	SYR Rescue Pit - Mobilization & Set up for Pipe Piling Works		6	16-Jan-24	22-Jan-24	-270	WD(6d)																				
S8P8b-4013.04	SYR Rescue Pit - Pipe Piling Works		40	23-Jan-24	12-Mar-24	-270	WD(6d)																				
S8P8b-4013	SYR Rescue Pit - Prepare, Submit and Approval of Method Statement& Temp Design		10	01-Aug-23 A	08-Jan-24	-270	WD(6d)																				
S8P8b-4120	Up Hill Pipe Jacking - 2100 dia Pipe Sleeve For Flushing Water		0	30-Aug-23 A	18-Dec-23 A		WD(6d)																				
S8P8b-4110	Up Hill Pipe Jacking - 2500 dia Pipe Sleeve For Fresh Water		5	02-Aug-23 A	02-Jan-24	-357	WD(6d)																				
S8P8b-4012.24	Workshop with MTRC and Waiting for Confirmation of NTH Working Schedule		21	10-Dec-23 A	14-Jan-24	-327	CD(7d)																				
Construction of watermains by open trench method																											
S8P8b-5002.2	DSD Maintenance Road - Construct Inspection Manhole (2 / 2 complete)		0	21-Aug-23 A	22-Dec-23 A		WD(6d)																				



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

◆ Milestone

◆ Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23


Run Date: 30-Dec-2023

Project ID: ND201901-RP-46
Lauayout: ND201901-3MRP with logo
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REVISED PROGRAMME (2023-12)

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

Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
	S8P8b-5002.4	DSD Maintenance Road - Construct Inspection Manhole - Backfilling and reinstatement	15	23-Dec-23 A	13-Jan-24	-417	WD(6d)																				
	S8P8b-5004	DSD Maintenance Road - Stage 2 Laying flushing water main - CHY 1047 to 1143	110	15-Jan-24	31-May-24	-417	WD(6d)																				
	S8P8b-5006.08	Government Land - Laying Flushing water main - CHY 1006 to 1040 (Waiting for Handover from DLO)	36	15-Jan-24	28-Feb-24	-31	WD(6d)																				
	S8P8b-8200	Ho Sheung Heung Road Fresh water main - Backfill and Reinstale Road	24	20-Feb-24	18-Mar-24	-521	WD(6d)																				
	S8P8b-8180.10	Ho Sheung Heung Road Fresh water main - Demolish Pavement, Construct Temp Road (2nd Attempt)	7	18-Dec-23 A	04-Jan-24	-521	WD(6d)																				
	S8P8b-7104	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 520 to 555)	48	18-Mar-24	18-May-24	-610	WD(6d)																				
	S8P8b-7102	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 550 to 553)	48	18-Jan-24	16-Mar-24	-610	WD(6d)																				
	S8P8b-7100	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 553 to 569)	18	30-Aug-23 A	17-Jan-24	-610	WD(6d)																				
	S8P8b-7134	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling(CHO 635 to 665)	20	09-Oct-23 A	19-Jan-24	-408	WD(6d)																				
	S8P8b-7132	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling(CHO 665 to 720)	72	23-Jan-24	23-Apr-24	-482	WD(6d)																				
	S8P8b-7130	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling(CHO 720 to 761)	20	07-Nov-23 A	19-Jan-24	-482	WD(6d)																				
	S8P8b-8190	Ho Sheung Heung Road Fresh water main - Expose existing Watermain Connection & Liase with WSD	24	19-Jan-24	19-Feb-24	-521	WD(6d)																				
	S8P8b-8180.30	Ho Sheung Heung Road Fresh water main - Implement TTA to Expose existing Watermain for Connection (2nd Attempt)	12	05-Jan-24	18-Jan-24	-521	WD(6d)																				
	Section 9																										
	S9-1000	Planned Completion Date of Section 9	0			06-Dec-23 A		CD(7d)	◆ Planned Completion Date of Section 9																		
S9-1004	Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)	0			25-Dec-23	-594	CD(7d)	◆ Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)																			
Portion 12 in Area F (Soil Treatment & Interface with EMSD's Contractors)																											
Soil Treatment																											
S9P12-3030	Approval of CIA, Tunnel Monitoring Proposal and Analysis	24	18-May-23 A	17-Jan-24	-578	CD(7d)																					
S9P12-2000	Construct & maintain Temporary drainage	55	27-Dec-23	04-Mar-24	-29	WD(6d)																					
S9P12-2025	Erect Chain Link Fence (Waiting for RFI Response for difference in level)	0	22-Nov-23 A	06-Dec-23 A		WD(6d)																					
S9P12-3040	Installation of Tunnel Monitoring Instrumentation (194/268 installed) 2 nights per week	7	06-Oct-23 A	04-Jan-24	-473	WD(6d)																					
S9P12-3070	Installation of Tunnel Vibration Monitoring Instrumentation 2 nights per week	19	15-Dec-23 A	18-Jan-24	0	WD(6d)																					
S9P12-3050	Remaining Remove Soil for Treatment After Set up for Tunnel Monitoring (EMSD Contractor)	48	05-Jan-24	04-Mar-24	-29	WD(6d)																					
S9P12-3060	Tunnel Monitoring during Construction Works within MTRC Protection Zone in Portion 1a	510	28-Dec-23	16-Sep-25	-485	WD(6d)																					
Interface with EMSD's Contractor to carry out GI																											
S9P12-3010	EMSD's Contractor to carry out GI	24	27-Dec-23	24-Jan-24	2	WD(6d)																					
Section 11																											
Portion 6b in Area B (Soil Treatment & Operation of HAC Soil Treatment Plant)																											
S11P6b-1002	Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038)	0			25-Dec-23	270	CD(7d)	◆ Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038)																			
KD4 - Setting up and T&C of the High Arsenic-containing Soil Treatment Plant																											
S11P6b-2005	Construct & maintain Temporary drainage	477	27-Dec-23	07-Aug-25	124	WD(6d)																					
Operation and Dismantling of the Soil Treatment Plant																											
S11P6b-3010	Provide treatment to high arsenic-containing soil	331	03-Dec-20 A	08-Feb-25*	0	WD(6d)																					
S11P6b-3000	Provide treatment to Imported high arsenic-containing soil (Estimated Qty 90,000m3)	277	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	22	25-Mar-23 A	22-Jan-24	-33	WD(6d)																					
Civil Work																											
S12P10b-3000	Construct & maintain Temporary drainage	247	27-Dec-23	26-Oct-24	-58	WD(6d)																					
S12P10b-3008	Remove and Replace DN900 pipe between SMH KT8006 to KT8008 after Installing Lead In Pipe at FMH KT4.03	12	01-Dec-23 A	10-Jan-24	-55	WD(6d)																					
S12P10b-3004	Underground Sewerage - Lay Inlet Pipe to FMHKT 4.03	12	11-Jan-24	24-Jan-24	-55	WD(6d)																					
S12P10b-3006	Underground Sewerage - Laying DN450 Pipe from FMHKT 4.03 to 4.02 (Partial only)	18	25-Jan-24	17-Feb-24	-55	WD(6d)																					
S12P10b-3002	Underground Primary Drainage Laying DN900 Pipe between SMHKT 8008 to 8009 Connection	24	19-Feb-24	16-Mar-24	-55	WD(6d)																					
S12P10b-3012	Underground Secondary Drainage work M1.40 to M1.41 (0 / 2 SM/H)	18	18-Mar-24	11-Apr-24	-55	WD(6d)																					



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Planned Work

Critical Work

Actual Work

◆

◆ Milestone

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◆ Milestone Critical

Summary LOE

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ND/2019/01 - 3 Month Rolling Programme (2023-12)

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							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
Portion 11b in Area L1 (Soil Treatment, Drainage & Roadwork)							<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	S13P7-0010	Late Completion for the EMSD's District Cooling System (DCS) Works (Contract No. 1330EM20A) along Road D1-2 (CNE 122)	0		25-Dec-23	744	CD(7d)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

◆

◆ Milestone

◆

◆ Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)


Data Date: 25-Dec-23Run Date: 30-Dec-2023

Project ID: ND201901-RP-46
Lauyout: ND201901-3MRP with logo
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REVISED PROGRAMME (2023-12)

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

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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	S13P9a-3000	Construct & maintain Temporary drainage	623	27-Dec-23	31-Jan-26	-82	WD(6d)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													



**Build King – Richwell Engineering
Joint Venture**

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

ND/2019/01 - 3 Month Rolling Programme (2023-12)


Data Date: 25-Dec-23 Run Date: 30-Dec-2023

Project ID: ND201901-RP-46
 Layout: ND201901-3MRP with logo
 Page 11 of 17

REVISED PROGRAMME (2023-12)			
Date	Revision	Checked	Approved
30-Dec-23	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
	S14P13-1020	Remaining Site clearance & Tree felling	26	19-Oct-23 A	26-Jan-24	263	WD(6d)	<div></div>																		
Soil Treatment																										
	S14P13-2020	Backfilling to the formation levels	252	20-Nov-23 A	23-Jan-25	281	WD(6d)	<div></div>																		
	S14P13-2030	ErectSite Hoarding	40	15-Jan-24	04-Mar-24	546	WD(6d)	<div></div>																		
Cycle Track from Area H to Area N																										
	S14CT-0100	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Dec-23	-27	CD(7d)	<div>◆ Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)</div>																		
Underground Utilities underneath Cycle Track																										
	S14CT-1000	Construct & maintain Temporary drainage	583	27-Dec-23	12-Dec-25	18	WD(6d)	<div></div>																		
	S14CT-1010	Construct Underground Primary Drainage in Portion 7 (0 / 1 MH completed) SMHKT 3008 and Pipe Laying	29	12-Jun-23 A	30-Jan-24	-23	WD(6d)	<div></div>																		
	S14CT-1012	Construct Underground Secondary Drainage in Portion 7 (0 / 5 MH completed)	42	21-Feb-24	13-Apr-24	-23	WD(6d)	<div></div>																		
	S14CT-1010.04	Construct Underground Sewerage in Portion 7 (0 / 2 MH completed) FMH KT1.17 to 1.16	40	02-Jan-24	20-Feb-24	-23	WD(6d)	<div></div>																		
	S14CT-1028.30	Laying Underground Watermain in Portion 5 - Stage 1 (After Repairing of Damaged Hoarding)	48	05-Feb-24	08-Apr-24	244	WD(6d)	<div></div>																		
	S14CT-1046	Laying Underground Watermain in Portion 9a (After Repairing Damaged Hoarding)	24	05-Feb-24	06-Mar-24	13	WD(6d)	<div></div>																		
	S14CT-1028.20	Repair Damaged Hoarding Adjacent to 19 W	48	08-Jan-24*	06-Mar-24	13	WD(6d)	<div></div>																		
Underground Utilities underneath Cycle Track (within MTRC Protection Zone)																										
	S14CT-1060	Construct Underground Primary Drainage in Portion 5 - Stage 2 (only Pipe laying) 'Inside MTRC Protection Zone'	48	07-Mar-24	07-May-24	13	WD(6d)	<div></div>																		
	S14CT-1015	Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)	0		25-Dec-23	88	CD(7d)	<div>◆ Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)</div>																		
Portion 1b (Soil Treatment & Civil Works)																										
Preparation work/Tree Survey/Site Clearance/GI																										
	S14P1b-1006	Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)	0		27-Dec-23	897	WD(6d)	<div>◆ Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)</div>																		
Civil Works																										
	S14P1b-1318	Construct Underground Watermain Wash Out	24	23-Jan-24	22-Feb-24	428	WD(6d)	<div></div>																		
	S14P1b-1316	Laying Remaining Underground Watermain CHX and CHL 198 - 222	24	23-Jan-24	22-Feb-24	428	WD(6d)	<div></div>																		
	S14P1b-1320	Pressure test for Fresh & Flushing watermain	30	23-Feb-24	23-Mar-24	534	CD(7d)	<div></div>																		
Portion 3 (Soil Treatment & Civil Works)																										
	S14P3-0010	Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)	0		27-Dec-23	541	WD(6d)	<div>◆ Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)</div>																		
Civil Works																										
	S14P3-1200	Construct & maintain Temporary drainage	317	27-Dec-23	20-Jan-25	224	WD(6d)	<div></div>																		
	S14P3-4000	DCS Works by Others (Anticipated Commencement Date Jan 2024) "To be Confirmed"	300	20-Jan-24*	14-Nov-24	278	CD(7d)	<div></div>																		
	S14P3-4010	Underground Fresh & Flushing watermain CHL & CHX 30 to 70	0	10-Jul-23 A	22-Dec-23 A		WD(6d)	<div></div>																		
Portion 5 (Soil Treatment & Civil Works)																										
	S14P5-0020	Red and Black Rainstorm Warning Signals hoisted from 07 September 2023 (CNE 137)	0		25-Dec-23	423	CD(7d)	<div>◆ Red and Black Rainstorm Warning Signals hoisted from 07 September 2023 (CNE 137)</div>																		
	S14P5-0010	Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)	0		25-Dec-23	744	CD(7d)	<div>◆ Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)</div>																		
Soil Treatment																										
	S14P5-1190	Construct & maintain Temporary drainage	52	27-Dec-23	29-Feb-24	549	WD(6d)	<div></div> Construct & maintain Temporary drainage																		
Civil Works																										
	S14P5-4000	DCS Works by Others (Anticipated Commencement Date Jan 2024) "To be Confirmed"	300	23-Jan-24	17-Nov-24	415	CD(7d)	<div></div>																		
	S14P5-1304	Pressure test for Fresh & Flushing watermain	30	23-Jan-24	29-Feb-24	549	WD(6d)	<div></div>																		
	S14P5-1300	Underground Drainage (1 / 2 MH completed) Including Repair ELS Damaged by Black Storm	4	16-Dec-22 A	30-Dec-23	336	WD(6d)	<div></div>																		
	S14P5-1302	Underground Fresh & Flushing watermain (around 100m)	18	06-Dec-23 A	22-Jan-24	336	WD(6d)	<div></div>																		
Portion 1e (Soil Treatment)																										
Soil Treatment																										
	S14P1e-2080	Backfilling to the formation levels	90	06-Feb-24	30-May-24	477	WD(6d)	<div></div>																		
	S14P1e-3000	Construct & maintain Temporary drainage	124	27-Dec-23	30-May-24	477	WD(6d)	<div></div>																		
	S14P1e-2070	Remove soil (original assumed 860m3) (0 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	34	27-Dec-23	05-Feb-24	297	WD(6d)	<div></div>																		

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
Portion 11b (Soil Treatment)																										
Preparation work/Tree Survey/Site Clearance/GI																										
S14P11b-2010	Approval & Acceptance of Tree felling Application	30	18-Jan-24	16-Feb-24	203	CD(7d)																				
S14P11b-3130	Demolish Existing Building No. 1 & 2	0	09-Dec-23 A	18-Dec-23 A		WD(6d)																				
S14P11b-3150	Demolish Existing Building No. 3 & 4	12	16-Jan-24	29-Jan-24	221	WD(6d)																				
S14P11b-3160	Demolish Existing Building No. 5, 6 & 7	24	01-Mar-24	28-Mar-24	221	WD(6d)																				
S14P11b-3102	Preparation Works for Demolishing Existing Buildings at Dills Corner	0	18-Nov-23 A	08-Dec-23 A		WD(6d)																				
S14P11b-2020	Site clearance & Tree felling	60	17-Feb-24	02-May-24	166	WD(6d)																				
S14P11b-2000	Tree survey and prepare tree felling and transplant report	18	09-Oct-23 A	17-Jan-24	163	WD(6d)																				
Ha Wong Yi Au Tai Po																										
TPHW-1030	Detail Design for Structure & Street Furnitur Approval from Client / Relevant Govt. Departments	30	08-Feb-24	08-Mar-24	669	CD(7d)																				
TPHW-1022	Prepare and Submit Detail Design for Structure & Street Furniture to Client / Relevant Govt. Departments	36	20-Nov-23 A	07-Feb-24	542	WD(6d)																				
TPHW-1110	Prepare and Submit Tree Protection & Reservation Proposal (TPRP)	14	04-Oct-23 A	07-Jan-24	730	CD(7d)																				
TPHW-0010	Unexpected Underground Conditions Encountered during Ground Investigation Works Tai Po,PM Instruction No 289 (EWN 098)	0		25-Dec-23	713	CD(7d)	Unexpected Underground Conditions Encountered during Ground Investigation Works Tai Po,PM Instruction No 289 (EV																			
Section 15																										
S15-1000	Presevation and protection of tree	717	06-Dec-19 A	10-Dec-25	27	CD(7d)																				
Section 18 (Subject to excision)																										
S18-1040	Watermain laying work in Portion 5	218	20-Sep-21 A	20-Sep-24	-72	WD(6d)																				
S18-1050	Watermain laying work in Portion 6a & 6b	196	18-Jul-22 A	05-Sep-24	-60	WD(6d)																				
S18-1020	Watermain laying work in Protion 1a	252	07-Jul-23 A	01-Nov-24	-106	WD(6d)																				
Section 20 (Subject to excision)																										
S20-1022	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116)	0		25-Dec-23	-754	CD(7d)	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116)																			
S20-1030	Unexpected Underground Conditions Encountered during Construction of Pak Shek Au Pedestrian Subway (EWN 093) (CNE 130)	0		25-Dec-23	-754	CD(7d)	Unexpected Underground Conditions Encountered during Construction of Pak Shek Au Pedestrian Subway (EWN 093)																			
Construction of Pedestrian Subway cum Cycle Track Stage 2 (South of Castle Peak Road)																										
Civil and Structural Works																										
S20S2-7540.20	Bay No. 1 - Waterproofing Membrane & 120mm Brick Work To walls	10	09-Jan-24	19-Jan-24	-489	WD(6d)																				
S20S2-7540.10	Bay No. 1 - Waterproofing Membrane & Mass Concrete Fill To walls	10	27-Dec-23	08-Jan-24	-489	WD(6d)																				
S20S2-7462.10	Bay No. 10 - Waterproofing Membrane & Mass Concrete Fill To walls	10	15-Dec-23 A	08-Jan-24	-292	WD(6d)																				
S20S2-7462.20	Bay No. 10 - Waterproofing Membrane & 120mm Brick Work To walls	10	09-Jan-24	19-Jan-24	-292	WD(6d)																				
S20S2-7482.20	Bay No. 11 - Waterproofing Membrane & 120mm Brick Work To walls	10	09-Jan-24	19-Jan-24	-293	WD(6d)																				
S20S2-7482.10	Bay No. 11 - Waterproofing Membrane & Mass Concrete Fill To walls	10	15-Dec-23 A	08-Jan-24	-293	WD(6d)																				
S20S2-7430.10	Bay No. 13 - Waterproofing Membrane & Mass Concrete Fill To walls	10	10-Jan-24	20-Jan-24	-293	WD(6d)																				
S20S2-7430.20	Bay No. 13 - Waterproofing Membrane & 120mm Brick Work To walls	10	22-Jan-24	01-Feb-24	-293	WD(6d)																				
S20S2-7842	Bay No. 15 - Excavation & No Fines Concrete to Formation Level	0	15-Nov-23 A	27-Nov-23 A		WD(6d)																				
S20S2-7842.00	Bay No. 15 - RC Structure 1st Pour	18	09-Dec-23 A	17-Jan-24	-599	WD(6d)																				
S20S2-7842.10	Bay No. 15 - RC Structure 2nd Pour	40	18-Jan-24	07-Mar-24	-599	WD(6d)																				
S20S2-7842.20	Bay No. 15 - RC Structure 3rd Pour	38	08-Mar-24	25-Apr-24	-599	WD(6d)																				
S20S2-7842.0	Bay No. 15 - RC Structure Blinding & Waterproofing	0	28-Nov-23 A	08-Dec-23 A		WD(6d)																				
S20S2-7850	Bay No. 16 - Excavation & No Fines Concrete to Formation Level	0	07-Dec-23 A	13-Dec-23 A		WD(6d)																				
S20S2-7850.00	Bay No. 16 - RC Structure 1st Pour	44	08-Jan-24	01-Mar-24	-570	WD(6d)																				
S20S2-7850.10	Bay No. 16 - RC Structure 2nd Pour	52	02-Mar-24	07-May-24	-570	WD(6d)																				
S20S2-7850.0	Bay No. 16 - RC Structure Blinding & Waterproofing	0	14-Dec-23 A	20-Dec-23 A		WD(6d)																				
S20S2-7540.0	Bay No. 1a RC Structure - Base Slab	12	22-Jan-24	03-Feb-24	-570	WD(6d)																				
S20S2-7540.02	Bay No. 1a RC Structure - Wall	18	15-Mar-24	09-Apr-24	690	WD(6d)																				
S20S2-7540.00	Bay No. 1b RC Structure - Base Slab	12	01-Mar-24	14-Mar-24	-589	WD(6d)																				
S20S2-7560.20	Bay No. 2 - Waterproofing Membrane & 120mm Brick Work To walls	10	09-Jan-24	19-Jan-24	-489	WD(6d)																				



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

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Milestone

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Milestone Critical

Summary LOE

Summary LOE Critical


ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23

Run Date: 30-Dec-2023

Project ID: ND201901-RP-

Activity ID		Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024					March 2024				
								26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
S20S2	S20S2-7560.10	Bay No. 2 - Waterproofing Membrane & Mass Concrete Fill To walls	10	27-Dec-23	08-Jan-24	-489	WD(6d)																				
	S20S2-7560.0	Bay No. 2a RC Structure - Base Slab	12	15-Mar-24	28-Mar-24	-589	WD(6d)																				
	S20S2-7580.10	Bay No. 3 - Waterproofing Membrane & Mass Concrete Fill To walls	10	27-Dec-23	08-Jan-24	-489	WD(6d)																				
	S20S2-7580.20	Bay No. 3 - Waterproofing Membrane & 120mm Brick Work To walls	10	09-Jan-24	19-Jan-24	-489	WD(6d)																				
	S20S2-7740.10	Bay No. 5 - Waterproofing Membrane & 120mm Brick Work To walls	12	27-Dec-23	10-Jan-24	-489	WD(6d)																				
	S20S2-7740.20	Bay No. 5 - Waterproofing Membrane & 50mm Screeding To Roof Slab	8	11-Jan-24	19-Jan-24	-489	WD(6d)																				
	S20S2-7760.10	Bay No. 6 - Waterproofing Membrane & 120mm Brick Work To walls	12	27-Dec-23	10-Jan-24	-459	WD(6d)																				
	S20S2-7760.20	Bay No. 6 - Waterproofing Membrane & 50mm Screeding To Roof Slab	8	11-Jan-24	19-Jan-24	-459	WD(6d)																				
	S20S2-7780.10	Bay No. 7 - Waterproofing Membrane & 120mm Brick Work To walls	12	27-Dec-23	10-Jan-24	-489	WD(6d)																				
	S20S2-7780.20	Bay No. 7 - Waterproofing Membrane & 50mm Screeding To Roof Slab	8	11-Jan-24	19-Jan-24	-489	WD(6d)																				
	S20S2-7800.10	Bay No. 8 - Waterproofing Membrane & 120mm Brick Work To walls	12	27-Dec-23	10-Jan-24	-459	WD(6d)																				
	S20S2-7800.20	Bay No. 8 - Waterproofing Membrane & 50mm Screeding To Roof Slab	8	11-Jan-24	19-Jan-24	-459	WD(6d)																				
	S20S2-7506	Bay No. 9a - RC Structure (Base Slab)	2	01-Nov-23 A	28-Dec-23	-338	WD(6d)																				
	S20S2-7502	Bay No. 9b - RC Structure (Walls)	36	05-Dec-23 A	07-Feb-24	-372	WD(6d)																				
	S20S2-7320.30	Subway Bay (1 & 2) South Face - Driving Sheet Pile	2	16-Nov-23 A	28-Dec-23	-589	WD(6d)																				
	S20S2-7320.40	Subway Bay (1 & 2) South Face - ELS, Excavation, Waterproofing and Laying Blinding	50	29-Dec-23	29-Feb-24	-589	WD(6d)																				
	S20S2-6060	Subway Bay (3 - 8) - ELS, Excavation, Waterproofing and Laying Blinding	110	14-Feb-24	28-Jun-24	-612	WD(6d)																				
	S20S2-6050	Subway Bay (3 - 8) North Face - Driving Sheet Pile	70	03-Jan-24	27-Mar-24	-612	WD(6d)																				
	S20S2-6040	Subway Bay (3 - 8) North Face - Preboring for Sheet Pile	0	22-Sep-23 A	21-Dec-23 A		WD(6d)																				
	S20S2-6030	Subway Bay (3 - 8) South Face - (Remaining) Driving Sheet Pile	12	06-Mar-24	19-Mar-24	-532	WD(6d)																				
	S20S2-6010	Subway Bay 8 (Remaining) South Face - Preboring for Sheet Pile	12	21-Feb-24	05-Mar-24	-532	WD(6d)																				
	S20S2-6002	Subway Bay 8 - Lower Platfrom	6	14-Feb-24*	20-Feb-24	-532	WD(6d)																				
	E&M, Lift Installation and Finishing Work for Pedestrian Subway																										
	S20ELF-1010	Design and Approval for Lift, Lighting and E&M works	66	25-Oct-22 A	28-Feb-24	315	CD(7d)																				
	S20ELF-1030	Procurement of Lighting, E&M equipment	60	14-Mar-24	12-May-24	301	CD(7d)																				
	S20ELF-1020	Submission and Approval of Lighting, E&M plants & materials	80	17-Feb-23 A	13-Mar-24	301	CD(7d)																				
Section 21 (Subject to excision)																											
S21-1013	Change to the Area of Area M (PMI 160, CE 168)	0		25-Dec-23	129	CD(7d)																					
Portion 1b in Area M (Soil Treatment)																											
Preparation work																											
S21P1b-1012	Approval & Acceptance of Tree felling Application	30	01-Feb-24	09-Mar-24	100	WD(6d)																					
S21P1b-1020	Site Clearance & Tree Felling	60	11-Mar-24	25-May-24	100	WD(6d)																					
S21P1b-1010	Tree survey and prepare tree felling and transplant report	30	27-Dec-23	31-Jan-24	100	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-Feb-24	09-Mar-24	100	WD(6d)																					
S21P1d-1020	Site Clearance & Tree Felling	60	11-Mar-24	25-May-24	100	WD(6d)																					
S21P1d-1010	Tree survey and prepare tree felling and transplant report	30	27-Dec-23	31-Jan-24	100	WD(6d)																					
Portion 11a in Area M (Soil Treatment)																											
Preparation work																											
S21P11a-1012	Approval & Acceptance of Tree felling Application	30	01-Feb-24	09-Mar-24	95	WD(6d)																					
S21P11a-1020	Site Clearance & Tree Felling	60	11-Mar-24	25-May-24	95	WD(6d)																					
S21P11a-1010	Tree survey and prepare tree felling and transplant report	30	27-Dec-23	31-Jan-24	95	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-Dec-23	129	CD(7d)																					
9.0 - Major EWN / CNE																											



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

Milestone

Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)


Data Date: 25-Dec-23Run Date: 30-Dec-2023

Project ID: ND201901-RP-46
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REVISED PROGRAMME (2023-12)

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

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	December 2023					January 2024					February 2024				March 2024				
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24	
EC-1186	Additional detailed land contamination assessment for the remaining areas within the site boundary (CNE 142)	0	28-Oct-23 A	25-Dec-23	1109	CD(7d)																			
EC-1192	Additional DN600 watermain between FLWSR and FWSR via Road W1 at Portion 8a (CNE 147)	0	20-Oct-23 A	25-Dec-23	-124	CD(7d)																			
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-Dec-23	412	CD(7d)																			
EC-1129	Additional Requirements for all the Lifting Operations within the Working Areas (EWN 086)	0	13-Feb-23 A	25-Dec-23	1109	CD(7d)																			
EC-1089	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0	27-Apr-22 A	25-Dec-23	-817	CD(7d)																			
EC-1156	Additional Works for Installation of Watermains by Trenchless Construction Method along Road D4 (EWN 095) (CNE 136)	0	02-Aug-23 A	25-Dec-23	-201	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-Dec-23	-752	CD(7d)																			
EC-1202	Changes to the design & alignment of the section of DN600 flusing watermain CHQ at Road D4 in Portion 9b (CNE 152)	0	05-Oct-23 A	25-Dec-23	-581	CD(7d)																			
EC-1206	Condition Survey for Existing Dongjiang Raw Water Mains (DJRWMs) at Road D3 in Portion 1c of the Site (EWN 097)	0	10-Nov-23 A	25-Dec-23	-160	CD(7d)																			
EC-1067	Conflict between Drainage Works and Existing Twin DN2200 Dongjiang Water Mains (CNE 051) (CE 150)	0	29-Nov-21 A	25-Dec-23	-860	CD(7d)																			
EC-1068	Conflict between Drainage Works and Water Mains in Road W1 (CNE 052)	0	02-Dec-21 A	25-Dec-23	-257	CD(7d)																			
EC-1178	Damage to the Micro-TBM and associated plants & equipment during the Red and Black Rainstorm at SYR (CNE 137a)	0	07-Sep-23 A	25-Dec-23	-165	CD(7d)																			
EC-1079	Delay in Supply of Precast Concrete Pipe due to the Severe Outbreak of Omicron (EWN 056)	0	16-Feb-22 A	25-Dec-23	1109	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-Dec-23	-739	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-Dec-23	-817	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-Dec-23	-817	CD(7d)																			
EC-1100	Delay to the Diversion/Modification of Existing HKT Pillar Boxes & Associated ducts in Ma Tso Lung Rd (EWN 075) (CNE 096)	0	15-Jul-22 A	25-Dec-23	-817	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) (CNE 129)	0	19-Jul-22 A	25-Dec-23	-817	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-Dec-23	-860	CD(7d)																			
EC-1039	Design Change on Road W1 (EWN 025)	0	22-Mar-21 A	25-Dec-23	-89	CD(7d)																			
EC-1088	Design Changes to the Permanent Street Lighting Works (CNE 074)	0	04-Mar-22 A	25-Dec-23	1109	CD(7d)																			
EC-1050	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0	17-Sep-21 A	25-Dec-23	-817	CD(7d)																			
EC-1042	Details of DCS pipe at D4-1 & D5 Road (EWN 030)	0	21-May-21 A	25-Dec-23	-697	CD(7d)																			
EC-1170	Existing Fire Hydrants SN4399 on the existing Po Lai Road in Area M at Portion 1b of the Site (CNE 132)	0	07-Jul-23 A	25-Dec-23	1109	CD(7d)																			
EC-1064	Extra Time on Production and Delivery of Road Lighting Products (EWN 51)	0	13-Dec-21 A	25-Dec-23	-160	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-Dec-23	-697	CD(7d)																			
EC-1026	Handling of Unlawful Occupied Property Affected by the Works (CNE No. 014)	0	21-Aug-20 A	25-Dec-23	1109	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-Dec-23	1109	CD(7d)																			
EC-1106	Inclement Weather in June 2022 (CNE 080) (CE 216)	0	02-Jun-22 A	25-Dec-23	1109	CD(7d)																			
EC-1112	Inclement Weather in August 2022 (CNE 087) (CE 236)	0	03-Aug-22 A	25-Dec-23	1109	CD(7d)																			
EC-1108	Inclement Weather in July 2022 (CNE 082) (CE 227)	0	02-Jul-22 A	25-Dec-23	1109	CD(7d)																			
EC-1104	Inclement Weather in May 2022 (CNE 078) (CE 212)	0	11-May-22 A	25-Dec-23	1109	CD(7d)																			
EC-1116	Inclement Weather in October 2022 (CNE 093) (CE 273)	0	07-Oct-22 A	25-Dec-23	1109	CD(7d)																			
EC-1114	Inclement Weather in September 2022 (CNE 089) (CE 244)	0	19-Sep-22 A	25-Dec-23	1109	CD(7d)																			
EC-1056	Inclement Weather on 8th October 2021 (CNE 036) (CE 163)	0	08-Oct-21 A	25-Dec-23	1109	CD(7d)																			
EC-1092	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116)	0	25-May-22 A	25-Dec-23	-754	CD(7d)																			
EC-1086	Increased Risk for Damages to Existing Dongjiang Raw Water Mains (DJRWMs) (CNE 060)	0	31-Mar-22 A	25-Dec-23	-860	CD(7d)																			
EC-1118	Increased Risk for Suspension Pipe Jacking Flushing Watermains underneath MTRC Zone Portion 8b (EWN 080) (CNE 092, 092a)	0	18-Oct-22 A	25-Dec-23	-165	CD(7d)																			
EC-1070	Insufficient Width of Road W1 for Accommodation of All Underground Utilities (CNE 056)	0	04-Jan-22 A	25-Dec-23	-264	CD(7d)																			
EC-1162	Late Completion for the EMSD's District Cooling System (DCS) Works (Contract No. 1330EM20A) along Road D1-2 (CNE 122)	0	11-Jul-23 A	25-Dec-23	744	CD(7d)																			
EC-1212	Late Completion for the EMSD's District Cooling System (DCS) Works in Road D1 at Portion 7 (CNE 153)	5	08-Nov-23 A	29-Dec-23	334	CD(7d)																			
EC-1188	Late completion for the EMSD's District Cooling System (DCS) works in road D3 at Portion 1c (CNE 143)	0	01-Nov-23 A	25-Dec-23	1109	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-Dec-23	305	CD(7d)																			
EC-1005	Late Possession of Site of Portion 3 (CNE No. 005) (CE 015)	0	06-Apr-20 A	25-Dec-23	-417	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-Dec-23	-817	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	25-Dec-23	-315	CD(7d)																			
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-Dec-23	-275	CD(7d)																			



**Build King – Richwell Engineering
Joint Venture**

Planned Work

Critical Work

Actual Work

Milestone

Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23 Run Date: 30-Dec-2023


Project ID: ND201901-RP-46

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REVISED PROGRAMME (2023-12)			
Date	Revision	Checked	Approved
30-Dec-23	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar		December 2023					January 2024					February 2024					March 2024				
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24			
EC-1080	Possible Suspension of Concrete Supply due to the Severe Outbreak of COVID-19 (EWN 059)	0	02-Mar-22 A	25-Dec-23	1109	CD(7d)																					
EC-1094	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0	23-May-22 A	25-Dec-23	-359	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-Dec-23	1109	CD(7d)																					
EC-1128	Potential Delay due to Shortage Supply of Manpower after Chinese New Year 2023 (EWN 085)	0	18-Jan-23 A	25-Dec-23	1109	CD(7d)																					
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-Dec-23	1109	CD(7d)																					
EC-1053	Potential Delay on Production and Supply of Precast Concrete Pipes (EWN 040) (CNE 047)	0	06-Oct-21 A	25-Dec-23	744	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-Dec-23	-179	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-Dec-23	412	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-Dec-23	1109	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	25-Dec-23	-860	CD(7d)																					
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	25-Dec-23	1109	CD(7d)																					
EC-1176	Red and Black Rainstorm Warning Signals hoisted from 07 September 2023 (CNE 137)	0	07-Sep-23 A	25-Dec-23	423	CD(7d)																					
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-Dec-23	-817	CD(7d)																					
EC-1071	Revised Construction Drawings of Fresh Water Service Reservoir (CNE 067, 067a)	0	14-Dec-21 A	25-Dec-23	-194	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	25-Dec-23	1109	CD(7d)																					
EC-1196	Revised longitudinal profile & layout for the watermains & DN150 branch pipes to the fire hydrants Road D4,D5 (CNE 149)	0	25-Dec-23	25-Dec-23	-817	CD(7d)																					
EC-1194	Revised longitudinal profile and layout for the watermains CHA, CHD & CHQ along Road D4 in Portion 9b (CNE 148)	0	27-Sep-23 A	25-Dec-23	-817	CD(7d)																					
EC-1119	Revised Noise Barrier Works at Road D3 in Portion 1C of the Site (EWN 081)	0	19-Oct-22 A	25-Dec-23	-9	CD(7d)																					
EC-1198	Revised Pre-determined Alignment of DN600 Flushing Watermains (CH Y 1022 to 1040) at DSD Access (CNE 150)	0	25-Oct-23 A	25-Dec-23	-19	CD(7d)																					
EC-1214	Revised Road Layout and Setting Out of Fill Slope KS12 at Road D4 in Portion 9b of the Site (CNE 154)	5	27-Nov-23 A	29-Dec-23	-18	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-Dec-23	-817	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-Dec-23	1109	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-Dec-23	1109	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	25-Dec-23	-599	CD(7d)																					
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-Dec-23	-601	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-Dec-23	-607	CD(7d)																					
EC-1061	Suspension of Concretes Supply due to Cement Shortage (EWN 045) (CNE 046)	0	02-Nov-21 A	25-Dec-23	1109	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-Dec-23	-522	CD(7d)																					
EC-1022	Suspension of Works at Part of Portions 9c (CNE no. 010) (CE 030)	0	21-Jul-20 A	25-Dec-23	65	CD(7d)																					
EC-1204	Temporary Lighting Proposal for the Temporary Road in Ma Tso Lung Road at Portion 9b of the Site (EWN 096)	0	13-Sep-23 A	25-Dec-23	-817	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-Dec-23	412	CD(7d)																					
EC-1059	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0	22-Oct-21 A	25-Dec-23	-108	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-Dec-23	1109	CD(7d)																					
EC-1113	Tropical Cyclone Warning Signal No.8 from 24th to 25th August 2022 (CNE 086) (CE 232)	0	24-Aug-22 A	25-Dec-23	1109	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-Dec-23	1109	CD(7d)																					
EC-1058	Tropical Cyclone Warning Signal No.8 on 13th October 2021 (CNE 040) (CE 165)	0	12-Oct-21 A	25-Dec-23	1109	CD(7d)																					
EC-1057	Tropical Cyclone Warning Signal No.8 on 9th October 2021 (CNE 039) (CE 164)	0	09-Oct-21 A	25-Dec-23	1109	CD(7d)																					
EC-1072	Unavailability of Vehicular Access and Movement towards Receiving Pit (CNE 068)	0	29-Dec-21 A	25-Dec-23	-311	CD(7d)																					
EC-1150	Uncharted Artificial Hard Materials Encountered during Construction of Cut-Slope KS34 in Pak Shek (EWN 092) (CNE 128)	0	28-Jul-23 A	25-Dec-23	-660	CD(7d)																					
EC-1154	Uncharted Watermain Encountered during Construction of Proposed UU along existing Ma Tso Lung Road (EWN 094) (CNE 135)	0	14-Aug-23 A	25-Dec-23	-522	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	25-Dec-23	-621	CD(7d)																					
EC-1210	Unexpected Long Process for the Approval of Revised Design of Rd Lighting System (Except Rd L1, D1 & Portion 2) (EWN 099)	0	26-Sep-23 A	25-Dec-23	1109	CD(7d)																					
EC-1152	Unexpected Underground Conditions Encountered during Construction of Pak Shek Au Pedestrian Subway (EWN 093) (CNE 130)	0	24-Jul-23 A	25-Dec-23	-754	CD(7d)																					
EC-1208	Unexpected Underground Conditions Encountered during Ground Investigation Works Tai Po, PM Instruction No 289 (EWN 098)	0	20-Nov-23 A	25-Dec-23	713	CD(7d)																					
EC-1200	Unexpected unsuitable excavated materials encountered during construction of DN900 Freshwater main CHO (CNE 151)	0	09-Nov-23 A	25-Dec-23	-731	CD(7d)																					
EC-1127	Unrecognized Construction Works for Newly Underground Cables and Facilities conducted by CLP at Portion 9b (EWN 083)	0	03-Jan-23 A	25-Dec-23	-860	CD(7d)																					
EC-1051	Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038) (CNE 049)	0	27-Sep-21 A	25-Dec-23	270	CD(7d)																					
EC-1168	Waste & Muddy Water Discharged from the Construction Site operated by the Contractor in Area C1 in Portion 5 (CNE 127)	0	01-Jun-23 A	25-Dec-23	669	CD(7d)																					



Build King – Richwell Engineering Joint Venture

Planned Work

Critical Work

Actual Work

Milestone

Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23

Run Date: 30-Dec-2023

Project ID: ND201901-RP-46


Lauyout: ND201901-3MRP with logo

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REVISED PROGRAMME (2023-12)

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

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar		December 2023					January 2024					February 2024					March 2024			
							26	03	10	17	24	31	07	14	21	28	04	11	18	25	03	10	17	24		
EC-1075	Works affected by the Sever Outbreak of Omicron (CNE 073) (EWN 058)	0	25-Feb-22 A	25-Dec-23	1109	CD(7d)																				



Build King – Richwell Engineering
Joint Venture

Planned Work

Critical Work

Actual Work

Milestone

Milestone Critical

Summary LOE

Summary LOE Critical

ND/2019/01 - 3 Month Rolling Programme (2023-12)

Data Date: 25-Dec-23

Run Date: 30-Dec-2023

Project ID: ND201901-RP-46

Lauyout: ND201901-3MRP with logo

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REVISED PROGRAMME (2023-12)

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

Draft Date

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

- Portion 8a**
1. Construction of Retaining Wall
2. RC construction of Flushing/ Fresh water service Reservoir
3. Excavation at WSD's maintenance access
4. Backfilling
5. Drainage works
6. Pipe pile wall installation

- Portion 6b**
1. Operation of HAC treatment facility

- Portion 6a**
1. Drainage works
2. Backfilling
3. Road works
4. Watermain works

- Portion 5**
1. Watermain works
2. Excavation
3. Backfilling
4. Road works
5. Pipe jacking

- Portion 3**
1. Site Formation
2. Site clearance
3. Excavation
4. Slope work
5. Drainage
6. Watermain works

- Portion 1a**
1. Drainage works
2. Watermain works
3. Sheet Piling

- Portion 2**
1. Sheet Piling
2. Site formation works
3. Construction of subway
4. Road works
5. Drainage works

- Portion 13**
1. Site clearance
2. Site formation
3. Removal of existing structure
4. Stockpile of soil

- Portion 9b**
1. Sheet piling
2. Excavation
3. Road works
4. Drainage works
5. Watermain works

Portion 9c

- Portion 1c**
1. Site formation
2. Erection of hoarding
3. Construction of noise barrier

Portion 1b

- Portion 7**
1. Sheet piling
2. Excavation
3. Stockpile of soil
4. Drainage works
5. Watermain works

- Portion 11b**
1. Removal of existing structure

- Portion 8b**
1. Trenchless works
2. Excavation
3. Watermain works
4. Ground treatment

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

Working Activities
(Jan 2024 – Apr 2024)

AO-1:2500

Construction Programme of ND/2019/02

<div><div><div><div></div><div></div></div><div>俊和 – 群利聯營體</div><div>CW – KL JV</div></div></div>			ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui							<div><div>AECOM</div></div>		<div><div><div>CEDD</div><div>土木工程拓展署</div><div>Civil Engineering and Development Department</div></div></div>		Monthly Programme Update (Jan 2024)			
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024							
										Jan	Feb	Mar	Apr				
1	Revised Works Programme (Rev. 3.1) - ND-2019-02 KTNDA Phase 1		2375	968	10-Apr-2020	30-Dec-2026	10-Apr-2020 A	08-Sep-2026	0								
2	Contract Data		124	0	01-Feb-2023	20-Jun-2024	01-Mar-2024 A	20-Jun-2024	810								
3	Access Dates		0	0	20-Jun-2024	20-Jun-2024	20-Jun-2024	20-Jun-2024	0								
4	CD-1190	Portion 6 (1585 d after Starting Date) (20 Jun 24)	0	0	20-Jun-2024		20-Jun-2024*		0								
5	Project Manager Latest Revised Completion Dates		0	0	01-Feb-2023	01-Feb-2023	01-Mar-2024 A	01-Mar-2024 A		▼ 01-Mar-2024 A, Project Manager Latest Revised Completion Dates							
6	Specified Parts of the works		0	0	01-Feb-2023	01-Feb-2023	01-Mar-2024 A	01-Mar-2024 A		▼ 01-Mar-2024 A, Specified Parts of the works							
7	CD-1230	Portion10 (1323 days after starting date)- Works in P10 excl. switch back to permanent sewerage system	0	0		01-Feb-2023		01-Mar-2024 A									
8	Programme Data		2375	968	10-Apr-2020	30-Dec-2026	10-Apr-2020 A	08-Sep-2026	0								
9	Access Dates		0	0	20-Jun-2024	20-Jun-2024	20-Jun-2024	20-Jun-2024	0								
10	PD1120	Portion 6 (1585 d after Starting Date) (20 Jun 24)	0	0	20-Jun-2024		20-Jun-2024*		0								
11	Contractor Planned Completion Dates		730	730	28-Mar-2024	28-Mar-2026	19-Sep-2024	07-Sep-2026	-415								
12	The Whole of the Works		0	0	06-Mar-2025	06-Mar-2025	07-Sep-2026	07-Sep-2026	-406								
13	PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0	0		06-Mar-2025		07-Sep-2026*	-406								
14	Sectional Completion		692	692	15-May-2024	28-Mar-2026	28-Oct-2024	07-Sep-2026	-415								
15	PD1050	Section 2 (1773 days after starting date) (25 Dec 24) - Works in P2,3,4,5,6 & 7	0	0		05-Mar-2025		08-Sep-2025*	-25								
16	PD1060	Section 3 (1110 days after starting date) (3 Mar 23) - Works P8 & P9	0	0		15-May-2024		28-Oct-2024*	-225								
17	PD1070	Section 4 (1773 days after starting date) (25 Dec 24) - Works in P10	0	0		28-Mar-2025		12-Sep-2025*	-28								
18	PD1080	Section 4A (2138 days after starting date) (25 Dec 25) - Establishment Works in P1,2,3 & 4	0	0		28-Mar-2026		07-Sep-2026*	-406								
19	PD1090	Section 5 (1584 days after starting date) (19 Jun 24) - Works in P11	0	0		09-Jul-2024		07-Jul-2025*	0								
20	Specified Parts of the works		0	0	28-Mar-2024	28-Mar-2024	19-Sep-2024	19-Sep-2024	-84								
21	PD1030	Portion 10 (1323 days after starting date) - Works in P10 excl. switch back to permanent sewerage system	0	0		28-Mar-2024		19-Sep-2024*	-84								
22	Preliminaries		1800	968	30-Oct-2021	30-Dec-2026	30-Oct-2021 A	08-Sep-2026	0								
23	Statutory Submission		72	72	03-May-2023	27-Jul-2023	29-Jan-2024	12-Apr-2024	97	▶ 12-Apr-2024, Statutory Submission							
24	MTRC		72	72	03-May-2023	27-Jul-2023	29-Jan-2024	12-Apr-2024	97	▶ 12-Apr-2024, MTRC							
25	Method Statement Submission and Approval		72	72	03-May-2023	27-Jul-2023	29-Jan-2024	12-Apr-2024	97	▶ 12-Apr-2024, Method Statement Submis							
26	MTRC-1010	Approval of Method Statement for pipe jacking work underneath East Rail Line	42	42	07-Jun-2023	27-Jul-2023	29-Jan-2024	11-Mar-2024	127								
27	MTRC-1020	Preparation of material and plants for pipe jacking work underneath East Rail Line	30	30	03-May-2023	06-Jun-2023	29-Jan-2024*	28-Feb-2024	97								
28	MTRC-1030	Approval of material and plants for pipe jacking work underneath East Rail Line	42	42	07-Jun-2023	27-Jul-2023	29-Feb-2024	12-Apr-2024	97								
29	MTRC-1040	Preparation of contingency plan for pipe jacking work underneath East Rail Line	30	30	03-May-2023	06-Jun-2023	29-Jan-2024*	28-Feb-2024	97								
30	MTRC-1050	Approval of contingency plan for pipe jacking work underneath East Rail Line	42	42	07-Jun-2023	27-Jul-2023	29-Feb-2024	12-Apr-2024	97								
31	MTRC-1060	Preparation of Method Statement for manhole construction work underneath East Rail Line	30	30	03-May-2023	06-Jun-2023	29-Jan-2024*	28-Feb-2024	97								
32	MTRC-1070	Approval of Method Statement for manhole construction work underneath East Rail Line	42	42	07-Jun-2023	27-Jul-2023	29-Feb-2024	12-Apr-2024	97								
33	BIM Submission		1774	953	30-Oct-2021	16-Oct-2024	30-Oct-2021 A	08-Sep-2026	0								
34	BIM1045	Preparation and Submission of BIM Model for Bar Bending Schedule	704	76	30-Oct-2021	03-Oct-2023	30-Oct-2021 A	14-Apr-2024	95								
35	BIM1047	Preparation and Submission of BIM Model for updating CSD and CBWD	1054	265	01-Nov-2021	19-Sep-2024	01-Nov-2021 A	20-Oct-2024	141								
36	BIM1050	Submission of Fully Coordinated BIM Model (As-built)	0	0	16-Oct-2024		08-Sep-2026		0								
37	Site Offices & Preliminaries		209	209	05-Jul-2025	30-Dec-2026	24-Jul-2025	24-Jul-2026	25								
38	Temporary office for RE		0	0	05-Jul-2025	11-Jul-2025	24-Jul-2025	24-Jul-2025	2								
39	SP-1000c	Removal of container office in WA2	0	0		11-Jul-2025		24-Jul-2025*	2								
40	Temporary office for Contractor		0	0	28-Dec-2026	30-Dec-2026	24-Jul-2026	24-Jul-2026	25								
41	SP-1010c	Removal of container office in WA1	0	0		30-Dec-2026		24-Jul-2026*	25								
42	E&M Submission		363	303	01-Feb-2023	25-Apr-2024	30-Nov-2023 A	22-Nov-2024	665								
43	Visitor Centre		95	66	01-Feb-2023	23-May-2023	30-Nov-2023 A	06-Apr-2024	-409	▶ 06-Apr-2024, Visitor Centre							
44	BS Shop Drawings Submission (Visitor Centre)		58	31	01-Feb-2023	07-Mar-2023	30-Nov-2023 A	29-Feb-2024	-405	▶ 29-Feb-2024, BS Shop Drawings Submission (Visitor Centre)							
45	CSD/ CBWD		58	31	01-Feb-2023	07-Mar-2023	30-Nov-2023 A	29-Feb-2024	-405	▶ 29-Feb-2024, CSD/ CBWD							
46	CSD		58	31	01-Feb-2023	07-Mar-2023	30-Nov-2023 A	29-Feb-2024	-405	▶ 29-Feb-2024, CSD							
47	R/F (CSF 1046)		58	31	01-Feb-2023	07-Mar-2023	30-Nov-2023 A	29-Feb-2024	-405	▶ 29-Feb-2024, R/F (CSF 1046)							
48	CSD-VC1190	CSD Preparation and submission for Visitor Centre (Rev.1)	58	31	01-Feb-2023	07-Mar-2023	30-Nov-2023 A	29-Feb-2024	-405								
49	BS Materials Submission & Procurement (Visitor Centre)		70	66	02-Mar-2023	23-May-2023	23-Dec-2023 A	06-Apr-2024	-409	▶ 06-Apr-2024, BS Materials Submission & Procurement							
50	ELV		70	66	02-Mar-2023	23-May-2023	23-Dec-2023 A	06-Apr-2024	-409	▶ 06-Apr-2024, ELV							
51	PABX System (CSF-1086)		70	66	02-Mar-2023	23-May-2023	23-Dec-2023 A	06-Apr-2024	-409	▶ 06-Apr-2024, PABX System (CSF-1086)							
52	ELE-VC1070	Procurement & Delivery of - PABX System (10wks)	70	66	02-Mar-2023	23-May-2023	23-Dec-2023 A	06-Apr-2024	-409								
53	Sewerage Pumping Station		342	303	11-Mar-2023	25-Apr-2024	19-Dec-2023 A	22-Nov-2024	665								
54	BS Shop Drawings Submission (SPS)		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, BS Shop Drawings Submission (SPS)							
55	Conduit Layout		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, Conduit Layout							
56	CL-SPS1010	Sewage Pumping Station - 1st round comment by PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934								
57	CL-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934								
58	MVAC		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, MVAC							
59	MVAC-SPS1020	Sewage Pumping Station - 1st submission to PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934								
60	MVAC-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934								
61	FS		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, FS							
62	FS-SPS1020	Sewage Pumping Station - 1st submission to PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934								
63	FS-SPS1030	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934								
64	PD		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, PD							
65	PD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934								
66	PD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934								
67	SPS Design		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, SPS Design							
68	SD-SPS1010	Sewage Pumping Station - 1st submission to PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934								
69	SD-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934								
70	ELV		64	34	05-Apr-2023	16-May-2023	30-Dec-2023 A	04-Mar-2024	934	▶ 04-Mar-2024, ELV							

Project Baseline Bar

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

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#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024				
											Jan	Feb	Mar	Apr
71	ELV-SPS1010	Sewage Pumping Station - 1st submission to PM & review	21	20	05-Apr-2023	28-Apr-2023	30-Dec-2023 A	19-Feb-2024	934					
72	ELV-SPS1020	Sewage Pumping Station - 2nd submission to PM & approval	14	14	29-Apr-2023	16-May-2023	20-Feb-2024	04-Mar-2024	934					
73	BS Materials Submission & Procurement (SPS)		342	303	11-Mar-2023	25-Apr-2024	19-Dec-2023 A	22-Nov-2024	42					
74	SWP		342	303	11-Mar-2023	06-Apr-2024	19-Dec-2023 A	22-Nov-2024	42					
75	Submersible Pump (40wks)		337	303	31-Mar-2023	06-Apr-2024	23-Dec-2023 A	22-Nov-2024	-14					
76	SWP-SPS1000	Material Submission - Submersible Pump	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	-14					
77	SWP-SPS1010	Submersible Pump - 1st round comment by PM & review	30	30	29-Apr-2023	03-Jun-2023	20-Feb-2024	18-Mar-2024	-14					
78	SWP-SPS1020	Submersible Pump - 2nd submission to PM & approval	21	21	05-Jun-2023	29-Jun-2023	19-Mar-2024	11-Apr-2024	-14					
79	SWP-SPS1030	Procurement & Delivery of Submersible Pump (40wks)	232	232	30-Jun-2023	06-Apr-2024	11-Apr-2024	22-Nov-2024	-14					
80	Motorized Gate Valve,Check Valve and Actuator (36wks)		313	279	31-Mar-2023	11-Mar-2024	23-Dec-2023 A	31-Oct-2024	-2					
81	SWP-SPS1040	Material Submission - Motorized Gate Valve,Check Valve and Actuator	25	18	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	17-Feb-2024	-2					
82	SWP-SPS1050	Motorized Gate Valve,Check Valve and Actuator - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	17-Feb-2024	13-Mar-2024	-2					
83	SWP-SPS1060	Motorized Gate Valve,Check Valve and Actuator - 2nd submission to PM & approval	22	22	01-Jun-2023	27-Jun-2023	14-Mar-2024	08-Apr-2024	-2					
84	SWP-SPS1070	Procurement & Delivery of Motorized Gate Valve,Check Valve and Actuator (36wks)	212	212	28-Jun-2023	11-Mar-2024	08-Apr-2024	31-Oct-2024	-2					
85	Lifting Appliance (36wks)		313	279	31-Mar-2023	11-Mar-2024	23-Dec-2023 A	31-Oct-2024	-29					
86	SWP-SPS1160	Material Submission - Lifting Appliance	25	18	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	17-Feb-2024	-29					
87	SWP-SPS1170	Lifting Appliance - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	17-Feb-2024	13-Mar-2024	-29					
88	SWP-SPS1180	Lifting Appliance - 2nd submission to PM & approval	22	22	01-Jun-2023	27-Jun-2023	14-Mar-2024	08-Apr-2024	-29					
89	SWP-SPS1190	Procurement & Delivery of Lifting Appliance (36wks)	212	212	28-Jun-2023	11-Mar-2024	08-Apr-2024	31-Oct-2024	-29					
90	Mechanical raked bar screen (36wks)		261	261	29-Apr-2023	11-Mar-2024	29-Jan-2024	14-Oct-2024	56					
91	SWP-SPS1330	Mechanical raked bar screen - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	29-Jan-2024	26-Feb-2024	56					
92	SWP-SPS1340	Mechanical raked bar screen - 2nd submission to PM & approval	22	22	01-Jun-2023	27-Jun-2023	26-Feb-2024	18-Mar-2024	56					
93	SWP-SPS1350	Procurement & Delivery of Mechanical raked bar screen (36wks)	212	212	28-Jun-2023	11-Mar-2024	18-Mar-2024	14-Oct-2024	56					
94	LMCP for Deodourisation System (36wks)		315	281	31-Mar-2023	11-Mar-2024	23-Dec-2023 A	01-Nov-2024	-32					
95	SWP-SPS1360	Material Submission - LMCP for Deodourisation System	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	-32					
96	SWP-SPS1370	LMCP for Deodourisation System - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	-32					
97	SWP-SPS1380	LMCP for Deodourisation System - 2nd submission to PM & approval	22	22	01-Jun-2023	27-Jun-2023	15-Mar-2024	10-Apr-2024	-32					
98	SWP-SPS1390	Procurement & Delivery of LMCP for Deodourisation System (36wks)	212	212	28-Jun-2023	11-Mar-2024	10-Apr-2024	01-Nov-2024	-32					
99	DI Pipe and fittings (30 wks)		279	245	31-Mar-2023	25-Jan-2024	23-Dec-2023 A	26-Sep-2024	32					
100	SWP-SPS1080	Material Submission - DI Pipe and fittings	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	32					
101	SWP-SPS1090	DI Pipe and fittings - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	32					
102	SWP-SPS1100	DI Pipe and fittings - 2nd submission to PM & approval	21	21	01-Jun-2023	26-Jun-2023	15-Mar-2024	09-Apr-2024	32					
103	SWP-SPS1110	Procurement & Delivery of DI Pipe and fittings (30wks)	177	177	27-Jun-2023	25-Jan-2024	09-Apr-2024	26-Sep-2024	32					
104	Penstock and Stop Log (30wks)		279	245	31-Mar-2023	25-Jan-2024	23-Dec-2023 A	26-Sep-2024	100					
105	SWP-SPS1120	Material Submission - Penstock and Stop Log	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	100					
106	SWP-SPS1130	Penstock and Stop Log - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	100					
107	SWP-SPS1140	Penstock and Stop Log - 2nd submission to PM & approval	21	21	01-Jun-2023	26-Jun-2023	15-Mar-2024	09-Apr-2024	100					
108	SWP-SPS1150	Procurement & Delivery of Penstock and Stop Log(30 wks)	177	177	27-Jun-2023	25-Jan-2024	09-Apr-2024	26-Sep-2024	100					
109	Deodourisation System (30wks) (CSF-1094)		177	170	11-Mar-2023	09-Oct-2023	19-Dec-2023 A	17-Jul-2024	79					
110	SWP-SPS1230	Procurement & Delivery of Deodourisation System (30wks)	177	170	11-Mar-2023	09-Oct-2023	19-Dec-2023 A	17-Jul-2024	79					
111	Odour Ductwork (30wks)		279	245	31-Mar-2023	25-Jan-2024	23-Dec-2023 A	26-Sep-2024	-48					
112	SWP-SPS1240	Material Submission - Odour Ductwork	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	-48					
113	SWP-SPS1250	Odour Ductwork - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	-48					
114	SWP-SPS1260	Odour Ductwork - 2nd submission to PM & approval	21	21	01-Jun-2023	26-Jun-2023	15-Mar-2024	09-Apr-2024	-48					
115	SWP-SPS1270	Procurement & Delivery of Odour Ductwork (30wks)	177	177	27-Jun-2023	25-Jan-2024	09-Apr-2024	26-Sep-2024	-48					
116	Sensors and Instruments (30wks)		279	245	31-Mar-2023	25-Jan-2024	23-Dec-2023 A	26-Sep-2024	44					
117	SWP-SPS1280	Material Submission - Sensors and Instruments	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	44					
118	SWP-SPS1290	Sensors and Instruments - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	44					
119	SWP-SPS1300	Sensors and Instruments - 2nd submission to PM & approval	21	21	01-Jun-2023	26-Jun-2023	15-Mar-2024	09-Apr-2024	44					
120	SWP-SPS1310	Procurement & Delivery of Sensors and Instruments (30wks)	177	177	27-Jun-2023	25-Jan-2024	09-Apr-2024	26-Sep-2024	44					
121	Chemical Dosing System (30wks)		279	245	31-Mar-2023	25-Jan-2024	23-Dec-2023 A	26-Sep-2024	39					
122	SWP-SPS1520	Material Submission - Chemical Dosing System	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	39					
123	SWP-SPS1530	Chemical Dosing System - 1st round comment by PM & review	27	27	29-Apr-2023	31-May-2023	20-Feb-2024	15-Mar-2024	39					
124	SWP-SPS1540	Chemical Dosing System - 2nd submission to PM & approval	21	21	01-Jun-2023	26-Jun-2023	15-Mar-2024	09-Apr-2024	39					
125	SWP-SPS1550	Procurement & Delivery of Chemical Dosing System (30wks)	177	177	27-Jun-2023	25-Jan-2024	09-Apr-2024	26-Sep-2024	39					
126	Davit (24wks)		229	195	31-Mar-2023	25-Nov-2023	23-Dec-2023 A	09-Aug-2024	55					
127	SWP-SPS1480	Material Submission - Davit	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	55					
128	SWP-SPS1490	Davit - 1st round comment by PM & review	30	30	29-Apr-2023	03-Jun-2023	20-Feb-2024	18-Mar-2024	55					
129	SWP-SPS1500	Davit - 2nd submission to PM & approval	21	21	05-Jun-2023	29-Jun-2023	19-Mar-2024	11-Apr-2024	55					
130	SWP-SPS1510	Procurement & Delivery of Davit (24wks)	124	124	30-Jun-2023	25-Nov-2023	11-Apr-2024	09-Aug-2024	55					
131	A-frame (20wks)		222	188	31-Mar-2023	17-Nov-2023	23-Dec-2023 A	03-Aug-2024	62					
132	SWP-SPS1440	Material Submission - A-frame	25	20	31-Mar-2023	28-Apr-2023	23-Dec-2023 A	19-Feb-2024	62					
133	SWP-SPS1450	A-frame - 1st round comment by PM & review	30	30	29-Apr-2023	03-Jun-2023	20-Feb-2024	18-Mar-2024	62					
134	SWP-SPS1460	A-frame - 2nd submission to PM & approval	21	21	05-Jun-2023	29-Jun-2023	19-Mar-2024	11-Apr-2024	62					
135	SWP-SPS1470	Procurement & Delivery of A-frame (20wks)	117	117	30-Jun-2023	17-Nov-2023	11-Apr-2024	03-Aug-2024	62					
136	PD (16wks)		199	165	31-Mar-2023	20-Oct-2023	23-Dec-2023 A	12-Jul-2024	152					
137	PD-SPS1110	Material Submission - Sand Filter and Activated Carbon												

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#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024							
										Jan	Feb	Mar	Apr				
141	FS (24wks)		247	213	01-Aug-2023	20-Apr-2024	23-Dec-2023 A	27-Aug-2024	98								
142	FS-SPS1070	Material Submission - Local Control Panel	25	20	01-Aug-2023	29-Aug-2023	23-Dec-2023 A	19-Feb-2024	98								
143	FS-SPS1080	Local Control Panel - 1st round comment by PM & review	28	28	30-Aug-2023	03-Oct-2023	20-Feb-2024	16-Mar-2024	98								
144	FS-SPS1090	Local Control Panel - 2nd submission to PM & approval	21	21	04-Oct-2023	28-Oct-2023	16-Mar-2024	10-Apr-2024	98								
145	FS-SPS1100	Procurement & Delivery of Local Control Panel (24wks)	144	144	30-Oct-2023	20-Apr-2024	10-Apr-2024	27-Aug-2024	98								
146	MVAC (12wks)		175	141	03-May-2023	25-Oct-2023	23-Dec-2023 A	19-Jun-2024	86								
147	MVAC-SPS1040	Material Submission - AC Unit split type	25	20	03-May-2023	31-May-2023	23-Dec-2023 A	19-Feb-2024	86								
148	MVAC-SPS1050	AC Unit split type - 1st round comment by PM & review	28	28	01-Jun-2023	05-Jul-2023	20-Feb-2024	16-Mar-2024	86								
149	MVAC-SPS1060	AC Unit split type - 2nd submission to PM & approval	21	21	06-Jul-2023	29-Jul-2023	16-Mar-2024	10-Apr-2024	86								
150	MVAC-SPS1070	Procurement & Delivery of AC Unit split type (12wks)	72	72	31-Jul-2023	25-Oct-2023	10-Apr-2024	19-Jun-2024	86								
151	ELE (16wks)		199	165	03-Apr-2023	24-Oct-2023	23-Dec-2023 A	12-Jul-2024	62								
152	ELE-SPS1060	Material Submission - PV System	25	20	03-Apr-2023	02-May-2023	23-Dec-2023 A	19-Feb-2024	62								
153	ELE-SPS1070	PV System - 1st round comment by PM & review	28	28	03-May-2023	03-Jun-2023	20-Feb-2024	16-Mar-2024	62								
154	ELE-SPS1080	PV System - 2nd submission to PM & approval	21	21	05-Jun-2023	29-Jun-2023	16-Mar-2024	10-Apr-2024	62								
155	ELE-SPS1090	Procurement & Delivery of PV System (16wks)	96	96	30-Jun-2023	24-Oct-2023	10-Apr-2024	12-Jul-2024	62								
156	ELV (16wks)		199	165	03-Oct-2023	25-Apr-2024	23-Dec-2023 A	12-Jul-2024	146								
157	ELV-SPS1060	Material Submission - SCADA	25	20	03-Oct-2023	01-Nov-2023	23-Dec-2023 A	19-Feb-2024	146								
158	ELV-SPS1070	SCADA - 1st round comment by PM & review	28	28	02-Nov-2023	04-Dec-2023	20-Feb-2024	16-Mar-2024	146								
159	ELV-SPS1080	SCADA - 2nd submission to PM & approval	21	21	05-Dec-2023	29-Dec-2023	16-Mar-2024	10-Apr-2024	146								
160	ELV-SPS1090	Procurement & Delivery of SCADA (16wks)	96	96	30-Dec-2023	25-Apr-2024	10-Apr-2024	12-Jul-2024	146								
161	Irrigation System (CSF-634)		132	74	03-Feb-2023	26-May-2023	01-Dec-2023 A	15-Apr-2024	-415	15-Apr-2024, Irrigation System (C							
162	IS-1030	Irrigation System drawings - 1st submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD	54	20	03-Feb-2023	30-Mar-2023	01-Dec-2023 A	19-Feb-2024	-415								
163	IS-1040	Irrigation System drawings - Re-submission to AFCD, DSD, ASD, & EMSD, WSD & LCSD and approval	54	54	31-Mar-2023	26-May-2023	20-Feb-2024	15-Apr-2024	-415								
164	ABWF Submission and Mock Up		316	193	23-Mar-2023	25-Jun-2024	06-Oct-2023 A	08-Aug-2024	775								
165	Visitor Centre		207	84	28-Mar-2023	26-Oct-2023	11-Dec-2023 A	24-Apr-2024	884	24-Apr-2024							
166	ABWF Shop Drawing / Method Statement / ITP Submission		164	41	28-Mar-2023	26-Oct-2023	18-Dec-2023 A	09-Mar-2024	927	09-Mar-2024, ABWF Shop Drawing / Method Statement / ITP Submission							
167	Package 3		144	41	28-Mar-2023	16-May-2023	20-Dec-2023 A	09-Mar-2024	904	09-Mar-2024, Package 3							
168	Plastic Laminate Wall Panels		21	5	21-Apr-2023	16-May-2023	20-Dec-2023 A	01-Feb-2024	-327	01-Feb-2024, Plastic Laminate Wall Panels							
169	ABWF-P3-1530	Plastic Laminate Wall Panel - 2nd submission to PM & approval	21	5	21-Apr-2023	16-May-2023	20-Dec-2023 A	01-Feb-2024	-327								
170	Thermal Insulation Board		21	13	21-Apr-2023	16-May-2023	20-Dec-2023 A	09-Feb-2024	-373	09-Feb-2024, Thermal Insulation Board							
171	ABWF-P3-1560	Thermal insulation Board - 2nd submission to PM & approval	21	13	21-Apr-2023	16-May-2023	20-Dec-2023 A	09-Feb-2024	-373								
172	Timber Deck		71	41	28-Mar-2023	16-May-2023	30-Dec-2023 A	09-Mar-2024	904	09-Mar-2024, Timber Deck							
173	ABWF-P3-1660	Timber Deck - 1st round comment by PM & review	21	20	28-Mar-2023	20-Apr-2023	30-Dec-2023 A	19-Feb-2024	904								
174	ABWF-P3-1680	Timber Deck - 2nd submission to PM & approval	21	21	21-Apr-2023	16-May-2023	20-Feb-2024	09-Mar-2024	904								
175	Package 6		164	41	26-Apr-2023	26-Oct-2023	19-Dec-2023 A	09-Mar-2024	927	09-Mar-2024, Package 6							
176	Roller Shutters		71	41	05-Sep-2023	26-Oct-2023	30-Dec-2023 A	09-Mar-2024	220	09-Mar-2024, Roller Shutters							
177	ABWF-P3-1220	Shop Drawing / Method Statement / ITP Submission - Shutter - 1st round comment by PM & review	21	20	05-Sep-2023	28-Sep-2023	30-Dec-2023 A	19-Feb-2024	220								
178	ABWF-P3-1230	Shop Drawing / Method Statement / ITP Submission - Shutter - 2nd submission to PM & approval	21	21	29-Sep-2023	26-Oct-2023	20-Feb-2024	09-Mar-2024	220								
179	Fall Arrest system		21	13	09-May-2023	01-Jun-2023	19-Dec-2023 A	09-Feb-2024	-288	09-Feb-2024, Fall Arrest system							
180	ABWF-P3-1260	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System - 2nd submission to PM & approval	21	13	09-May-2023	01-Jun-2023	19-Dec-2023 A	09-Feb-2024	-288								
181	Steel Doors		14	4	26-Apr-2023	12-May-2023	19-Dec-2023 A	01-Feb-2024	964	01-Feb-2024, Steel Doors							
182	ABWF-P3-1350	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 2nd submission to PM & approval	14	4	26-Apr-2023	12-May-2023	19-Dec-2023 A	01-Feb-2024	964								
183	Sundry Metal Works (Covers / Cat Ladder / Steel Staircase)		21	13	09-May-2023	01-Jun-2023	20-Dec-2023 A	09-Feb-2024	-283	09-Feb-2024, Sundry Metal Works (Covers / Cat Ladder / Steel Staircase)							
184	ABWF-P4-1020	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works - 2nd submission to PM & approval	21	13	09-May-2023	01-Jun-2023	20-Dec-2023 A	09-Feb-2024	-283								
185	Pacakge 7		21	9	28-Apr-2023	23-May-2023	18-Dec-2023 A	06-Feb-2024	-367	06-Feb-2024, Pacakge 7							
186	Toilet Cubicle & Shower Cubicle		21	9	28-Apr-2023	23-May-2023	18-Dec-2023 A	06-Feb-2024	-367	06-Feb-2024, Toilet Cubicle & Shower Cubicle							
187	ABWF-P3-1290	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 2nd submission to PM & approval	21	9	28-Apr-2023	23-May-2023	18-Dec-2023 A	06-Feb-2024	-367								
188	ABWF Material Submission		36	20	22-Apr-2023	16-Jun-2023	14-Dec-2023 A	19-Feb-2024	880	19-Feb-2024, ABWF Material Submission							
189	Package 4		36	20	22-Apr-2023	02-Jun-2023	14-Dec-2023 A	19-Feb-2024	880	19-Feb-2024, Package 4							
190	Timber Door		20	5	22-Apr-2023	16-May-2023	14-Dec-2023 A	01-Feb-2024	895	01-Feb-2024, Timber Door							
191	ABWF-VC3440	Material Procurement of Timber Doors	20	5	22-Apr-2023	16-May-2023	14-Dec-2023 A	01-Feb-2024	895								
192	Fitting and Fixtures		30	20	28-Apr-2023	02-Jun-2023	20-Dec-2023 A	19-Feb-2024	-380	19-Feb-2024, Fitting and Fixtures							
193	ABWF-VC3480	Material Procurement of - Fitting and Fixtures	30	20	28-Apr-2023	02-Jun-2023	20-Dec-2023 A	19-Feb-2024	-380								
194	Package 5		21	19	24-May-2023	16-Jun-2023	27-Dec-2023 A	19-Feb-2024	-318	19-Feb-2024, Package 5							
195	Alumninum Grilles		21	19	24-May-2023	16-Jun-2023	27-Dec-2023 A	19-Feb-2024	-318	19-Feb-2024, Alumninum Grilles							
196	ABWF-VC3600	Material Procurement of Window / Lourves	21	19	24-May-2023	16-Jun-2023	27-Dec-2023 A	19-Feb-2024	-318								
197	Mock Up		133	84	16-May-2023	25-Aug-2023	11-Dec-2023 A	24-Apr-2024	875	24-Apr-2024							
198	Package 3		80	31	16-May-2023	13-Jul-2023	11-Dec-2023 A	29-Feb-2024	-381	29-Feb-2024, Package 3							
199	External suspended Baffle Ceiling		61	31	16-May-2023	21-Jun-2023	30-Dec-2023 A	29-Feb-2024	-396	29-Feb-2024, External suspended Baffle Ceiling							
200	ABWF-VC1380	Mock Up modification, 2nd round comment by PM & approval	12	11	16-May-2023	29-May-2023	30-Dec-2023 A	07-Feb-2024	-396								
201	ABWF-VC1390	Material Procurement of External Suspended Baffle Ceiling	20	20	30-May-2023	21-Jun-2023	07-Feb-2024*	29-Feb-2024	-396								
202	Internal Acoustic Ceiling		21	2	17-Jun-2023	13-Jul-2023	11-Dec-2023 A	30-Jan-2024	-352	30-Jan-2024, Internal Acoustic Ceiling							
203	ABWF-VC1430	Material Procurement of Acoustic Ceiling	21	2	17-Jun-2023	13-Jul-2023	11-Dec-2023 A	30-Jan-2024	-352								
204	Package 4		116	79	29-May-2023	21-Aug-2023	28-Dec-2023 A	24-Apr-2024	875	24-Apr-2024							
205	Timber Door		95	59	29-May-2023	08-Aug-2023	29-Dec-2023 A	05-Apr-2024	895	05-Apr-2024, Timber Door							
206	ABWF-VC1530	Mock Up 1st round comment by PM & review	20	19	29-May-2023	20-Jun-2023	29-Dec-2023 A	23-Feb-2024	895								
207	ABWF-VC1540	Mock Up modification, 2nd round comment by PM & approval	20	20	21-Jun-2023	15-Jul-2023	23-Feb-2024	13-Mar-2024	895								
208	ABWF-VC1550	Material Procurement of Timber Doors	20	20	17-Jul-2023	08-Aug-2023	13-Mar-2024	05-Apr-2024	895								
209	Fitting and Fixtures		116	64	03-Jun-2023	21-Aug-2023	28-Dec-2023 A	24-Apr-2024	-380	24-Apr-2024							
210	ABWF-VC1640	Fabrication of Mock Up - Fitting and Fixtures	10	8	03-Jun-2023	14-Jun-2023	28-Dec-2023 A	27-Feb-2024	-380								
<div><div><div>Project Baseline Bar</div><div>Primary Baseline</div><div>Actual Work</div><div>Remaining Work</div><div>Critical Remaining Work</div></div><div><div>Baseline Milestone</div><div>Critical Milestone</div><div>Non-Critical Milestone</div><div>Summary</div></div></div>										4 MONTH ROLLING PROGRAMME (Jan - Apr 2024)							
Data Date: 29-Jan-2024 Project Start: 03-Feb-2020 Project End: 08-Sep-208																	

<div><div><div>俊和 – 群利聯營體 CW – KL JV</div></div><div>ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui</div></div>			<div><div></div><div><div>土木工程拓展署 Civil Engineering and Development Department</div></div></div>			Monthly Programme Update (Jan 2024)								
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024				
											Jan	Feb	Mar	Apr
211	ABWF-VC1650	Mock Up 1st round comment by PM & review	21	21	15-Jun-2023	11-Jul-2023	27-Feb-2024	18-Mar-2024	-380					
212	ABWF-VC1660	Mock Up modification, 2nd round comment by PM & approval	14	14	12-Jul-2023	27-Jul-2023	18-Mar-2024	03-Apr-2024	-380					
213	ABWF-VC1670	Material Procurement of - Fitting and Fixtures	21	21	28-Jul-2023	21-Aug-2023	03-Apr-2024	24-Apr-2024	-380					
214	Package 5		14	8	20-May-2023	05-Jun-2023	21-Dec-2023 A	05-Feb-2024	-360					
215	Windows / Lourves		14	8	20-May-2023	05-Jun-2023	21-Dec-2023 A	05-Feb-2024	-360					
216	ABWF-VC1830	Material Procurement of Window / Lourves	14	8	20-May-2023	05-Jun-2023	21-Dec-2023 A	05-Feb-2024	-360					
217	Package 6		103	69	14-Jun-2023	25-Aug-2023	23-Dec-2023 A	10-Apr-2024	-288					
218	Fall Arrest System		103	56	14-Jun-2023	25-Aug-2023	23-Dec-2023 A	10-Apr-2024	-288					
219	ABWF-VC1490	Mock Up 1st round comment by PM & review	21	16	14-Jun-2023	10-Jul-2023	23-Dec-2023 A	28-Feb-2024	-288					
220	ABWF-VC1500	Mock Up modification, 2nd round comment by PM & approval	10	10	11-Jul-2023	21-Jul-2023	28-Feb-2024	08-Mar-2024	-288					
221	ABWF-VC1510	Material Procurement of Fall Arrest System	30	30	22-Jul-2023	25-Aug-2023	08-Mar-2024	10-Apr-2024	-288					
222	Timber Wall / Fences		81	50	14-Jun-2023	15-Aug-2023	29-Dec-2023 A	18-Mar-2024	-349					
223	ABWF-VC1050	Mock Up 1st round comment by PM & review	21	19	14-Jun-2023	10-Jul-2023	29-Dec-2023 A	19-Feb-2024	-349					
224	ABWF-VC1060	Mock Up modification, 2nd round comment by PM & approval	10	10	11-Jul-2023	21-Jul-2023	19-Feb-2024	28-Feb-2024	-349					
225	ABWF-VC1070	Material Procurement of Timber Wall	21	21	22-Jul-2023	15-Aug-2023	28-Feb-2024	18-Mar-2024	-349					
226	Package 7		67	26	14-Jun-2023	18-Jul-2023	28-Dec-2023 A	04-Mar-2024	-367					
227	Toilet Cubicle & Shower Cubicle		67	26	14-Jun-2023	18-Jul-2023	28-Dec-2023 A	04-Mar-2024	-367					
228	ABWF-VC2060	Mock Up modification, 2nd round comment by PM & approval	14	12	14-Jun-2023	30-Jun-2023	28-Dec-2023 A	20-Feb-2024	-367					
229	ABWF-VC2070	Material Procurement of Toilet and Shower Cubicles	14	14	03-Jul-2023	18-Jul-2023	20-Feb-2024	04-Mar-2024	-367					
230	Sewerage Pumping Station		238	193	24-May-2023	25-Jun-2024	14-Dec-2023 A	08-Aug-2024	165					
231	ABWF Shop Drawings Submission		80	45	24-May-2023	30-Jan-2024	23-Dec-2023 A	13-Mar-2024	216					
232	Recycled Composite Wood		80	45	24-May-2023	24-Jul-2023	23-Dec-2023 A	13-Mar-2024	125					
233	ABWF-SPS1050	Recycled Composite Wood - 1st round comment by PM & review	30	24	24-May-2023	28-Jun-2023	23-Dec-2023 A	23-Feb-2024	125					
234	ABWF-SPS1060	Recycled Composite Wood - 2nd submission to PM & approval	21	21	29-Jun-2023	24-Jul-2023	23-Feb-2024	13-Mar-2024	125					
235	Fences and Gates		79	44	28-Oct-2023	27-Dec-2023	23-Dec-2023 A	13-Mar-2024	166					
236	ABWF-SPS1150	Fences and Gates - 1st round comment by PM & review	30	23	28-Oct-2023	01-Dec-2023	23-Dec-2023 A	22-Feb-2024	166					
237	ABWF-SPS1160	Fences and Gates - 2nd submission to PM & approval	21	21	02-Dec-2023	27-Dec-2023	22-Feb-2024	13-Mar-2024	166					
238	Window and Lourves		79	44	07-Jun-2023	07-Aug-2023	23-Dec-2023 A	13-Mar-2024	24					
239	ABWF-SPS1180	Shop Drawing Submission Window and Lourves - 1st round comment by PM & review	30	23	07-Jun-2023	13-Jul-2023	23-Dec-2023 A	22-Feb-2024	24					
240	ABWF-SPS1190	Shop Drawing Submission Window and Lourves - 2nd submission to PM & approval	21	21	14-Jul-2023	07-Aug-2023	22-Feb-2024	13-Mar-2024	24					
241	Claddings		79	44	21-Jun-2023	21-Aug-2023	23-Dec-2023 A	13-Mar-2024	80					
242	ABWF-SPS1210	Shop Drawing Submission Claddings - 1st round comment by PM & review	30	23	21-Jun-2023	27-Jul-2023	23-Dec-2023 A	22-Feb-2024	80					
243	ABWF-SPS1220	Shop Drawing Submission Claddings - 2nd submission to PM & approval	21	21	28-Jul-2023	21-Aug-2023	22-Feb-2024	13-Mar-2024	80					
244	Shutters		79	44	30-Nov-2023	30-Jan-2024	23-Dec-2023 A	13-Mar-2024	217					
245	ABWF-SPS1330	Shop Drawing Submission Shutters - 1st round comment by PM & review	30	23	30-Nov-2023	05-Jan-2024	23-Dec-2023 A	22-Feb-2024	217					
246	ABWF-SPS1340	Shop Drawing Submission Shutters - 2nd submission to PM & approval	21	21	06-Jan-2024	30-Jan-2024	22-Feb-2024	13-Mar-2024	217					
247	ABWF Material Submission & Procurement		89	44	08-Jun-2023	21-Aug-2023	14-Dec-2023 A	13-Mar-2024	217					
248	Recycled Composite Wood		79	44	21-Jun-2023	21-Aug-2023	23-Dec-2023 A	13-Mar-2024	126					
249	ABWF-SPS1120	Material Submission - Recycled Composite Wood - 1st round comment by PM & review	30	23	21-Jun-2023	27-Jul-2023	23-Dec-2023 A	22-Feb-2024	126					
250	ABWF-SPS1130	Material Submission - Recycled Composite Wood - 2nd submission to PM & approval	21	21	28-Jul-2023	21-Aug-2023	22-Feb-2024	13-Mar-2024	126					
251	Fences and Gates		79	44	21-Jun-2023	21-Aug-2023	23-Dec-2023 A	13-Mar-2024	166					
252	ABWF-SPS1240	Material Submission - Fences and Gates - 1st round comment by PM & review	30	23	21-Jun-2023	27-Jul-2023	23-Dec-2023 A	22-Feb-2024	166					
253	ABWF-SPS1250	Material Submission - Fences and Gates - 2nd submission to PM & approval	21	21	28-Jul-2023	21-Aug-2023	22-Feb-2024	13-Mar-2024	166					
254	Window and Lourves		79	34	08-Jun-2023	08-Aug-2023	14-Dec-2023 A	04-Mar-2024	34					
255	ABWF-SPS1270	Material Submission - Windows and Lourves - 1st round comment by PM & review	30	13	08-Jun-2023	14-Jul-2023	14-Dec-2023 A	09-Feb-2024	34					
256	ABWF-SPS1280	Material Submission - Windows and Lourves - 2nd submission to PM & approval	21	21	15-Jul-2023	08-Aug-2023	09-Feb-2024	04-Mar-2024	34					
257	Claddings		79	34	21-Jun-2023	21-Aug-2023	14-Dec-2023 A	04-Mar-2024	90					
258	ABWF-SPS1300	Material Submission - Claddings - 1st round comment by PM & review	30	13	21-Jun-2023	27-Jul-2023	14-Dec-2023 A	09-Feb-2024	90					
259	ABWF-SPS1310	Material Submission - Claddings - 2nd submission to PM & approval	21	21	28-Jul-2023	21-Aug-2023	09-Feb-2024	04-Mar-2024	90					
260	Shutters		79	44	21-Jun-2023	21-Aug-2023	23-Dec-2023 A	13-Mar-2024	217					
261	ABWF-SPS1360	Material Submission - FRR Shutters - 1st round comment by PM & review	30	23	21-Jun-2023	27-Jul-2023	23-Dec-2023 A	22-Feb-2024	217					
262	ABWF-SPS1370	Material Submission - FRR Shutters - 2nd submission to PM & approval	21	21	28-Jul-2023	21-Aug-2023	22-Feb-2024	13-Mar-2024	217					
263	Mock Up		149	149	09-Aug-2023	25-Jun-2024	13-Mar-2024	08-Aug-2024	165					
264	Recycled Composite Wood		148	148	22-Aug-2023	19-Feb-2024	14-Mar-2024	08-Aug-2024	125					
265	ABWF-SPS1070	Fabrication of Mock Up - Recycled Composite Wood	25	25	22-Aug-2023	19-Sep-2023	14-Mar-2024	10-Apr-2024	125					
266	ABWF-SPS1080	Mock Up 1st round comment by PM & review	30	30	20-Sep-2023	27-Oct-2023	11-Apr-2024	09-May-2024	125					
267	ABWF-SPS1090	Mock Up modification, 2nd round comment by PM & approval	21	21	28-Oct-2023	21-Nov-2023	10-May-2024	30-May-2024	125					
268	ABWF-SPS1100	Material Procurement of Recycled Composite Wood	72	72	22-Nov-2023	19-Feb-2024	30-May-2024	08-Aug-2024	125					
269	Fences and Gates		148	148	28-Dec-2023	25-Jun-2024	13-Mar-2024	07-Aug-2024	166					
270	ABWF-SPS1380	Fabrication of Mock Up - Fences and Gates	25	25	28-Dec-2023	26-Jan-2024	13-Mar-2024	10-Apr-2024	166					
271	ABWF-SPS1390	Mock Up 1st round comment by PM & review	30	30	27-Jan-2024	05-Mar-2024	10-Apr-2024	09-May-2024	166					
272	ABWF-SPS1400	Mock Up modification, 2nd round comment by PM & approval	21	21	06-Mar-2024	29-Mar-2024	09-May-2024	29-May-2024	166					
273	ABWF-SPS1410	Material Procurement of Fences and Gates	72	72	30-Mar-2024	25-Jun-2024	30-May-2024	07-Aug-2024	166					
274	Window and Lourves		148	148	09-Aug-2023	02-Feb-2024	13-Mar-2024	07-Aug-2024	24					
275	ABWF-SPS1420	Fabrication of Mock Up - Window and Lourvres	25	25	09-Aug-2023	06-Sep-2023	13-Mar-2024	10-Apr-2024	24					
276	ABWF-SPS1430	Mock Up 1st round comment by PM & review	30	30	07-Sep-2023	13-Oct-2023	10-Apr-2024	09-May-2024	24					
277	ABWF-SPS1440	Mock Up modification, 2nd round comment by PM & approval	21	21	14-Oct-2023	08-Nov-2023	09-May-2024	29-May-2024	24					
278	ABWF-SPS1450	Material Procurement of Window and Lourvres	72	72	09-Nov-2023	02-Feb-2024	30-May-2024	07-Aug-2024	24					
279	Claddings		148	148	22-Aug-2023	19-Feb-2024	13-Mar-2024	07-Aug-2024	80					
280	ABWF-SPS1460	Fabrication of Mock Up - Claddings	25	25	22-Aug-2023	19-Sep-2023	13-Mar-2024	10-Apr-2024	80					
<div><div><div><div></div><div>Project Baseline Bar</div></div><div><div></div><div>Primary Baseline</div></div><div><div></div><div>Actual Work</div></div><div><div></div><div>Remaining Work</div></div><div><div></div><div>Critical Remaining Work</div></div></div><div><div><div></div><div>Baseline Milestone</div></div><div><div></div><div>Critical Milestone</div></div><</div></div>														

<div><div></div><div>ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui</div></div>			<div><div></div><div></div></div>			Monthly Programme Update (Jan 2024)								
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024				
											Jan	Feb	Mar	Apr
281	ABWF-SPS1470	Mock Up 1st round comment by PM & review	30	30	20-Sep-2023	27-Oct-2023	10-Apr-2024	09-May-2024	80					
282	ABWF-SPS1480	Mock Up modification, 2nd round comment by PM & approval	21	21	28-Oct-2023	21-Nov-2023	09-May-2024	29-May-2024	80					
283	ABWF-SPS1490	Material Procurement of Claddings	72	72	22-Nov-2023	19-Feb-2024	30-May-2024	07-Aug-2024	80					
284	Footbridge FK2		162	44	23-Mar-2023	22-May-2023	06-Oct-2023 A	13-Mar-2024	-218				13-Mar-2024, Footbridge FK2	
285	ABWF Shop Drawings Submission		154	36	23-Mar-2023	22-May-2023	06-Oct-2023 A	05-Mar-2024	-210				05-Mar-2024, ABWF Shop Drawings Submission	
286	Footbridge Deck Paving		21	17	11-Apr-2023	05-May-2023	06-Oct-2023 A	16-Feb-2024	-225				16-Feb-2024, Footbridge Deck Paving	
287	ABWF-FK2-1020	Shop Drawing Submission - Footbridge Deck Paving - 2nd submission to PM & approval	21	17	11-Apr-2023	05-May-2023	06-Oct-2023 A	16-Feb-2024	-225					
288	Handrail		21	5	27-Apr-2023	22-May-2023	12-Oct-2023 A	02-Feb-2024	-202				02-Feb-2024, Handrail	
289	ABWF-FK2-1080	Shop Drawing Submission - Handrail - 2nd submission to PM & approval	21	5	27-Apr-2023	22-May-2023	12-Oct-2023 A	02-Feb-2024	-202					
290	Ramp Staircase Finishes		81	36	23-Mar-2023	22-May-2023	14-Dec-2023 A	05-Mar-2024	-210				05-Mar-2024, Ramp Staircase Finishes	
291	ABWF-FK2-1100	Shop Drawing Submission - Ramp Staircase Finishes - 1st round comment by PM & review	30	15	23-Mar-2023	26-Apr-2023	14-Dec-2023 A	14-Feb-2024	-210					
292	ABWF-FK2-1110	Shop Drawing Submission - Ramp Staircase Finishes - 2nd submission to PM & approval	21	21	27-Apr-2023	22-May-2023	15-Feb-2024	05-Mar-2024	-210					
293	ABWF Material Submission & Procurement		86	44	23-Mar-2023	22-May-2023	16-Dec-2023 A	13-Mar-2024	-218				13-Mar-2024, ABWF Material Submission & Procurement	
294	Handrail		21	9	27-Apr-2023	22-May-2023	16-Dec-2023 A	06-Feb-2024	-205				06-Feb-2024, Handrail	
295	ABWF-FK2-1140	Material Submission - Handrail - 2nd submission to PM & approval	21	9	27-Apr-2023	22-May-2023	16-Dec-2023 A	06-Feb-2024	-205					
296	Ramp Staircase Finishes		79	44	23-Mar-2023	22-May-2023	23-Dec-2023 A	13-Mar-2024	-218				13-Mar-2024, Ramp Staircase Finishes	
297	ABWF-FK2-1160	Material Submission - Ramp Staircase Finishes - 1st round comment by PM & review	30	23	23-Mar-2023	26-Apr-2023	23-Dec-2023 A	22-Feb-2024	-218					
298	ABWF-FK2-1170	Material Submission - Ramp Staircase Finishes -2nd submission to PM & approval	21	21	27-Apr-2023	22-May-2023	22-Feb-2024	13-Mar-2024	-218					
299	Landscape Works Submission		141	109	23-Feb-2023	03-Jul-2023	28-Dec-2023 A	20-May-2024	-314					
300	Landscape Method Statement Submission		65	33	28-Mar-2023	09-May-2023	28-Dec-2023 A	02-Mar-2024	-381				02-Mar-2024, Landscape Method Statement Submission	
301	LA-SPS1100	Method Statement of Planting and Soil Mixing - 1st submission to PM & review	18	15	28-Mar-2023	17-Apr-2023	28-Dec-2023 A	14-Feb-2024	-381					
302	LA-SPS1110	Method Statement of Planting and Soil Mixing - 2nd submission to PM & approval	18	18	18-Apr-2023	09-May-2023	15-Feb-2024	02-Mar-2024	-381					
303	Landscape Material Submission & Test Report		65	33	28-Mar-2023	09-May-2023	28-Dec-2023 A	02-Mar-2024	-381				02-Mar-2024, Landscape Material Submission & Test Report	
304	Plant Specimen & Origin		65	33	28-Mar-2023	09-May-2023	28-Dec-2023 A	02-Mar-2024	-381				02-Mar-2024, Plant Specimen & Origin	
305	LA-SPS1010	Plant Nursery and Specimen Photos - 1st submission to PM & review	18	15	28-Mar-2023	17-Apr-2023	28-Dec-2023 A	14-Feb-2024	-381					
306	LA-SPS1020	Plant Nursery and Specimen Photos - 2nd submission to PM & approval	18	18	18-Apr-2023	09-May-2023	15-Feb-2024	02-Mar-2024	-381					
307	Soil Mix		65	33	28-Mar-2023	09-May-2023	28-Dec-2023 A	02-Mar-2024	-381				02-Mar-2024, Soil Mix	
308	LA-SPS1040	Soil Mix Test Report - 1st submission to PM & review	18	15	28-Mar-2023	17-Apr-2023	28-Dec-2023 A	14-Feb-2024	-381					
309	LA-SPS1050	Soil Mix Test Report - 2nd submission to PM & approval	18	18	18-Apr-2023	09-May-2023	15-Feb-2024	02-Mar-2024	-381					
310	Soil Conditioners		64	32	28-Mar-2023	09-May-2023	28-Dec-2023 A	01-Mar-2024	-380				01-Mar-2024, Soil Conditioners	
311	LA-SPS1070	Soil Conditioners Test Report & Samples - 1st submission to PM & review	18	14	28-Mar-2023	17-Apr-2023	28-Dec-2023 A	14-Feb-2024	-380					
312	LA-SPS1080	Soil Conditioners Test Report & Samples - 2nd submission to PM & approval	18	18	18-Apr-2023	09-May-2023	14-Feb-2024	01-Mar-2024	-380					
313	Landscape Design Submission		109	109	23-Feb-2023	03-Jul-2023	29-Jan-2024	20-May-2024	-314					
314	LA-SPS1160	Landscape Design Submission for FK2 - 1st submission to Project Manager	28	28	23-Feb-2023	27-Mar-2023	29-Jan-2024*	27-Feb-2024	-314					
315	LA-SPS1165	Landscape Design Submission for FK2 - 1st submission to PM & review	21	21	28-Mar-2023	20-Apr-2023	27-Feb-2024	18-Mar-2024	-314					
316	LA-SPS1170	Landscape Design Submission for FK2 - 2nd submission to PM & approval	21	21	21-Apr-2023	16-May-2023	18-Mar-2024	10-Apr-2024	-275					
317	LA-SPS1180	Landscape Design Submission for FK2 - Submission to Govt Dept for approval	60	60	21-Apr-2023	03-Jul-2023	18-Mar-2024	20-May-2024	-314					
318	Works in Section 2		2005	597	10-Apr-2020	05-Mar-2025	10-Apr-2020 A	08-Sep-2025	370					
319	Portion 2 - Road & Drains		1884	590	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	02-Sep-2025	377					
320	Pre-construction works		1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322					
321	P2-1070	Tree Protection and Preservation	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322					
322	ELS		122	18	05-Apr-2023	19-May-2023	04-Oct-2023 A	17-Feb-2024	91				17-Feb-2024, ELS	
323	Combined shaft for SMH_KT6003B & FMH_KT1.27A		38	18	05-Apr-2023	19-May-2023	21-Dec-2023 A	17-Feb-2024	-41				17-Feb-2024, Combined shaft for SMH_KT6003B & FMH_KT1.27A	
324	P2-8235	ELS of combined pit for SMH_KT6003B & FMH_KT1.27A (97/118 sheet piles driven)	38	18	05-Apr-2023	19-May-2023	21-Dec-2023 A	17-Feb-2024	-41					
325	Combined shaft for SMH_KT6004A & FMH_KT1.29A		43	4	05-Apr-2023	19-May-2023	04-Oct-2023 A	01-Feb-2024	104				01-Feb-2024, Combined shaft for SMH_KT6004A & FMH_KT1.29A	
326	P2-3010	ELS of combined pit for SMH_KT6004A & FMH_KT1.29A (3rd layer wailing in-progress)	43	4	05-Apr-2023	19-May-2023	04-Oct-2023 A	01-Feb-2024	104					
327	Pipe Jacking		580	489	05-Apr-2023	06-Sep-2024	01-Nov-2023 A	28-May-2025	-41					
328	(KT1.30A to KT1.32A) (IL:3.8-3.6mPD) 800mm dia		145	54	03-May-2023	12-Jul-2023	01-Nov-2023 A	21-Mar-2024	55				21-Mar-2024, (KT1.30A to KT1.32A) (IL:3.8-3.6mPD) 800mm dia	
329	P2-3170	Set up and assembly of TBM (0.8m dia.)	43	30	03-May-2023	15-Jun-2023	01-Nov-2023 A	28-Feb-2024	55					
330	P2-3180	Pipe Jacking from FMH_KT1.30A to FMH_KT1.32A (20m, 3m/day)	8	8	16-Jun-2023	24-Jun-2023	28-Feb-2024	07-Mar-2024	55					
331	P2-3185	Removal of TBM (0.8m dia.) from FMH_KT1.32A	16	16	26-Jun-2023	12-Jul-2023	07-Mar-2024	21-Mar-2024	55					
332	(KT1.29A to KT1.27A) (IL: 4.1-4.6mPD) 800mm dia		81	81	13-Jul-2023	17-Oct-2023	21-Mar-2024	13-Jun-2024	55					
333	P2-8205	Set up and Assembly of TBM (0.8m dia.)	38	38	13-Jul-2023	25-Aug-2023	21-Mar-2024	02-May-2024	55					
334	P2-8210	Pipe Jacking from FMH_KT1.29A to FMH_KT1.27A (85m, 3m/day)	28	28	26-Aug-2023	27-Sep-2023	02-May-2024	29-May-2024	55					
335	P2-8215	Dismantling TBM at KT1.27A (0.8m dia.)	14	14	28-Sep-2023	16-Oct-2023	29-May-2024	12-Jun-2024	55					
336	P2-8220	Install decking at KT1.29A & release TTA	1	1	17-Oct-2023	17-Oct-2023	12-Jun-2024	13-Jun-2024	55					
337	(KT1.26A to KT1.27A) (IL:5.1-4.6mPD) 800mm dia		90	90	18-Oct-2023	02-Feb-2024	13-Jun-2024	07-Sep-2024	55					
338	P2-8240	Set up and Assembly of TBM (0.8m dia.)	38	38	18-Oct-2023	01-Dec-2023	13-Jun-2024	20-Jul-2						

<div><div><div><div></div><div></div></div><div>俊和 - 群利聯營體</div><div>CW - KL JV</div></div></div>			ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui							<div><div>AECOM</div><div></div></div>			<div><div><div>CEDD</div><div>土木工程拓展署</div><div>Civil Engineering and Development Department</div></div></div>			Monthly Programme Update (Jan 2024)			
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024									
										Jan	Feb	Mar	Apr						
349		(KT6003A to KT6003B) (IL: 6.0-5.7mPD) 2100mm dia	83	83	05-Apr-2023	18-Jul-2023	17-Feb-2024	10-May-2024	-41										
350	P2-8260	Set up and Assembly TBM (2.1m dia.) at SMH_KT6003A	34	34	05-Apr-2023	19-May-2023	17-Feb-2024	20-Mar-2024	-41										
351	P2-8265	Pipe Jacking from SMH_KT6003A to SMH_KT6003B (85m, 3m/day)	30	30	20-May-2023	21-Jun-2023	20-Mar-2024	22-Apr-2024	-41										
352	P2-8270	Removal of TBM (2.1m dia.) at SMH_KT6003B	19	19	23-Jun-2023	18-Jul-2023	22-Apr-2024	10-May-2024	-41										
353		(KT6004A to KT6003B) (IL: 5.3-5.7mPD) 2100mm dia	97	97	19-Jul-2023	30-Oct-2023	10-May-2024	13-Aug-2024	-41										
354	P2-8275	Set up and Assembly TBM (2.1m dia.) at SMH_KT6004A	43	43	19-Jul-2023	31-Aug-2023	10-May-2024	21-Jun-2024	-41										
355	P2-8280	Pipe Jacking from SMH_KT6004A to SMH_KT6003B (80m, 3m/day)	30	30	01-Sep-2023	04-Oct-2023	22-Jun-2024	22-Jul-2024	-41										
356	P2-8285	Dismantle TBM at SMH_KT6003B	24	24	05-Oct-2023	30-Oct-2023	22-Jul-2024	13-Aug-2024	-41										
357		(KT6004A to KT6005A) (IL: 5.9mPD) 2100mm dia	291	291	31-Oct-2023	06-Sep-2024	13-Aug-2024	28-May-2025	-41										
358	P2-2170	Set up and Assembly TBM (2.1m dia.) at SMH_KT6004A	43	43	31-Oct-2023	13-Dec-2023	13-Aug-2024	23-Sep-2024	-41										
359	P2-2180	Pipe Jacking from SMH_KT6004A to SMH_KT6005A (599m, 3m/day)	225	225	14-Dec-2023	13-Aug-2024	23-Sep-2024	06-May-2025	-41										
360	P2-2190	Remove TBM (2.1m dia.) from SMH_KT6005A	24	24	14-Aug-2024	06-Sep-2024	06-May-2025	28-May-2025	-41										
361		Manhole Construction	519	519	03-Feb-2024	24-Dec-2024	12-Apr-2024	02-Sep-2025	-41										
362		SMH_KT6003A & FMH_KT1.26A	68	68	18-Apr-2024	28-Jun-2024	07-Sep-2024	13-Nov-2024	145										
363	P2-8315	Backfill and reinstatement	68	68	18-Apr-2024	28-Jun-2024	07-Sep-2024	13-Nov-2024	145										
364		SMH_KT6003B & FMH_KT1.27A	135	135	03-Feb-2024	28-Jun-2024	07-Sep-2024	18-Jan-2025	122										
365	P2-8335	Manhole FMH_KT1.27A construction	34	34	03-Feb-2024	12-Mar-2024	07-Sep-2024	12-Oct-2024	84										
366	P2-8340	Manhole SMH_KT6003B construction	34	34	13-Mar-2024	17-Apr-2024	12-Oct-2024	13-Nov-2024	84										
367	P2-8350	Backfill and reinstatement	68	68	18-Apr-2024	28-Jun-2024	13-Nov-2024	18-Jan-2025	122										
368		SMH_KT6004A & FMH_KT1.29A	295	295	30-Apr-2024	24-Dec-2024	15-Nov-2024	02-Sep-2025	-41										
369	P2-8320	Manhole FMH_KT1.29A construction	34	34	30-Apr-2024	04-Jun-2024	15-Nov-2024	17-Dec-2024	81										
370	P2-8325	Manhole SMH_KT6004A construction	34	34	07-Sep-2024	15-Oct-2024	28-May-2025	30-Jun-2025	-41										
371	P2-8355	Backfill and reinstatement	68	68	16-Oct-2024	24-Dec-2024	30-Jun-2025	02-Sep-2025	-41										
372		FMH_KT1.32A	101	101	04-May-2024	19-Aug-2024	12-Apr-2024	20-Jul-2024	279										
373	P2-4060	Manhole FMH_KT1.32A construction	34	34	04-May-2024	07-Jun-2024	12-Apr-2024	16-May-2024	279										
374	P2-8365	Backfill and reinstatement	68	68	08-Jun-2024	19-Aug-2024	16-May-2024	20-Jul-2024	279										
375		FMH_KT1.30A	101	101	30-Apr-2024	15-Aug-2024	15-Nov-2024	25-Feb-2025	55										
376	P2-3190	Manhole FMH_KT1.30A construction	34	34	30-Apr-2024	04-Jun-2024	15-Nov-2024	17-Dec-2024	55										
377	P2-3200	Backfill and reinstatement	68	68	05-Jun-2024	15-Aug-2024	17-Dec-2024	25-Feb-2025	55										
378		SMH_KT6005A & FMH_KT1.33A	173	173	20-Aug-2024	24-Dec-2024	25-Feb-2025	13-Aug-2025	-20										
379	P2-2200	Manhole FMH_KT1.33A construction	27	27	20-Aug-2024	24-Sep-2024	25-Feb-2025	21-Mar-2025	55										
380	P2-4065	Manhole SMH_KT6005A construction	27	27	07-Sep-2024	15-Oct-2024	28-May-2025	23-Jun-2025	-20										
381	P2-4070	Backfill and reinstatement	53	53	16-Oct-2024	24-Dec-2024	23-Jun-2025	13-Aug-2025	-20										
382		Utilities Works and Signage	261	261	05-Jun-2024	24-Dec-2024	17-Dec-2024	02-Sep-2025	377										
383	P2-7095	Reinstatement works of Disturbed landscape area	113	113	27-Aug-2024	24-Dec-2024	17-May-2025	02-Sep-2025	377										
384	P2-7100	Installation of Branch Pipe (NS250 PE Pipe) to KT1.29A	27	27	05-Jun-2024	04-Jul-2024	17-Dec-2024	14-Jan-2025	81										
385	P2-7120	UU (UG 11kV Cable) and signage works	113	113	27-Aug-2024	24-Dec-2024	17-May-2025	02-Sep-2025	-41										
386		Portion 3 - Road & Drains	1863	569	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	13-Aug-2025	398										
387		Pre-construction works	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322										
388	P3-1060	Tree Protection and Preservation	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322										
389		DN200 PE Watermain from CPR to LVNC (By CE-120)	93	15			11-Jul-2023 A	14-Feb-2024	535										
390	P3-7005	CH0.201 to CH280 laying DN20 PE watermain	12	2			11-Jul-2023 A	30-Jan-2024	535										
391	P3-7030	CH440 to CH557.112 laying DN20 PE watermain	20	15			16-Sep-2023 A	14-Feb-2024	535										
392		Sewer Pipeline Installation (KT1.33A to KT1.41A)	17	17	17-Jun-2023	06-Jul-2023	21-Dec-2023 A	16-Feb-2024	435										
393		KT1.36A - KT1.33A (23m) (Open Cut by CE-068)	17	17	17-Jun-2023	06-Jul-2023	21-Dec-2023 A	16-Feb-2024	435										
394	P3-6230	Backfill to formation and reinstatement	17	17	17-Jun-2023	06-Jul-2023	21-Dec-2023 A	16-Feb-2024	435										
395		Reinstatement Works	818	569	07-Sep-2024	24-Dec-2024	01-May-2023 A	13-Aug-2025	398										
396		Slope Reinstatement	219	3			01-May-2023 A	31-Jan-2024	546										
397	P3-5021	Slope reinstatement works from KT1.33 - KT1.37	30	3			01-May-2023 A	31-Jan-2024	546										
398	P3-5031	Slope reinstatement works from KT1.37 - KT1.40	30	3			01-Jun-2023 A	31-Jan-2024	546										
399		Road Reinstatement for Permanent DSD Maintenance Access	8	6			26-Jan-2024 A	02-Feb-2024	962										
400		CH80 to CH190	8	6			26-Jan-2024 A	02-Feb-2024	499										
401	P3-5045	CH80 to CH100 Erect Rebar & Formwork and Pouring concrete to slab	3	3			31-Jan-2024*	02-Feb-2024	499										
402	P3-5046	CH100 to CH120 Erect Rebar & Formwork and Pouring concrete to slab	2	2			30-Jan-2024	31-Jan-2024*	501										
403	P3-5085	Bay 4 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			26-Jan-2024 A	30-Jan-2024	503										
404		CH190 to CH380	6	3			26-Jan-2024 A	31-Jan-2024	965										
405	P3-5136	Bay 10 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			26-Jan-2024 A	30-Jan-2024	503										
406	P3-5166	Bay 13 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			29-Jan-2024*	30-Jan-2024	503										
407	P3-5186	Bay 14, 16, & 17 - Erect Rebar & Formwork and Pouring concrete to slab	3	3			29-Jan-2024*	31-Jan-2024	965										
408	P3-5226	Bay 19 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			29-Jan-2024*	30-Jan-2024	503										
409	P3-5236	Bay 20 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			29-Jan-2024*	30-Jan-2024	503										
410	P3-5247	Bay 22 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			29-Jan-2024*	30-Jan-2024	966										
411	P3-5276	Bay 25 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			29-Jan-2024*	30-Jan-2024	503										
412		CH380 to CH420	3	3			31-Jan-2024	02-Feb-2024	499										
413	P3-5277	Bay 26 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			31-Jan-2024*	01-Feb-2024	500										

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#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024						
										Jan	Feb	Mar	Apr			
414	P3-5287	Bay 27-28 - Erect Rebar & Formwork and Pouring concrete to slab	3	3			31-Jan-2024*	02-Feb-2024	499							
415	P3-5307	Bay 29-30 - Erect Rebar & Formwork and Pouring concrete to slab	2	2			31-Jan-2024*	01-Feb-2024	500							
416	P3-5317	Report Completion of DSD maintenance access road reinstatement works	0	0				02-Feb-2024	499							
417	Remaining Reinstatement Works		101	101	07-Sep-2024	24-Dec-2024	08-May-2025	13-Aug-2025	-20							
418	P3-5005	Remaining Pipe Connection to Manhole (After Pipe Jacking)	11	11	13-Dec-2024	24-Dec-2024	02-Aug-2025	13-Aug-2025	-20							
419	P3-5010	Underground Utilities & Road works	101	101	07-Sep-2024	24-Dec-2024	08-May-2025	13-Aug-2025	-20							
420	P3-5020	Reinstatement of disturbed landscape area and Tree Planting (83nos.)	45	45	08-Nov-2024	24-Dec-2024	02-Jul-2025	13-Aug-2025	-20							
421	Portion 4 - Road & Drains		1802	508	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	16-Jun-2025	41							
422	Pre-construction works		1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322							
423	P4-1050	Tree Protection and Preservation	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322							
424	Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)		372	219	16-Dec-2022	19-Dec-2024	01-Sep-2023 A	02-Sep-2024	330							
425	Gang 3		51	0	16-Dec-2022	11-Feb-2023	16-Sep-2023 A	29-Jan-2024	210							
426	Rising Main CHB589 to CHB699 (88M) Gang 3-1		51	0	16-Dec-2022	11-Feb-2023	16-Sep-2023 A	29-Jan-2024	210							
427	P4-5670	Backfilling of drain to at grade level	51	0	16-Dec-2022	11-Feb-2023	16-Sep-2023 A	29-Jan-2024	210							
428	Gang 4		372	219	07-Jul-2023	19-Dec-2024	01-Sep-2023 A	02-Sep-2024	330							
429	Rising Main CHB371 to CHB493 (122M) Gang 4-2		45	37	07-Jul-2023	09-Sep-2023	20-Sep-2023 A	06-Mar-2024	275							
430	P4-6455	RC Works Inspection Chamber and Air Valve Chamber	45	5	07-Jul-2023	28-Aug-2023	20-Sep-2023 A	01-Feb-2024	275							
431	P4-6460	Backfilling of drain to at grade level	30	6	31-Jul-2023	02-Sep-2023	30-Sep-2023 A	26-Feb-2024	275							
432	P4-6470	Sheet Pile Extraction	30	15	07-Aug-2023	09-Sep-2023	03-Oct-2023 A	06-Mar-2024	275							
433	Rising Main CHB699 to CHB749 (50M) Gang 4-3		214	64	11-Sep-2023	22-Dec-2023	10-Oct-2023 A	09-May-2024	275							
434	P4-5680	Sheet Pile Installation for open trench	15	7	11-Sep-2023	27-Sep-2023	10-Oct-2023 A	12-Mar-2024	275							
435	P4-5690	Soft Excavation to 1st strut level	15	15	14-Sep-2023	03-Oct-2023	06-Mar-2024	20-Mar-2024	275							
436	P4-5700	Installation of strut S1	20	20	21-Sep-2023	16-Oct-2023	12-Mar-2024	03-Apr-2024	275							
437	P4-5730	Soft Excavation to F.L.	15	15	19-Oct-2023	06-Nov-2023	12-Mar-2024	26-Mar-2024	275							
438	P4-5740	Bedding and Pipe Laying (Twins DN700)	10	10	04-Nov-2023	15-Nov-2023	25-Mar-2024	08-Apr-2024	275							
439	P4-5745	RC Works Inspection Chamber and Air Valve Chamber	36	36	04-Nov-2023	15-Dec-2023	25-Mar-2024	03-May-2024	275							
440	P4-5750	Backfilling of drain to at grade level	25	25	24-Nov-2023	22-Dec-2023	16-Apr-2024	09-May-2024	275							
441	Rising Main CHB749 to CHB867 (118M) Gang 4-4		244	91	18-Jan-2024	21-Jun-2024	01-Sep-2023 A	30-Apr-2024	284							
442	P4-5770	Soft Excavation to 1st strut level	57	10	18-Jan-2024	27-Mar-2024	01-Sep-2023 A	06-Feb-2024	284							
443	P4-5780	Installation of strut S1	58	17	25-Jan-2024	05-Apr-2024	01-Sep-2023 A	16-Feb-2024	284							
444	P4-5810	Soft Excavation to F.L.	39	39	08-Mar-2024	23-Apr-2024	29-Jan-2024*	08-Mar-2024	284							
445	P4-5820	Bedding and Pipe Laying (Twins DN700)	20	20	12-Apr-2024	06-May-2024	29-Feb-2024*	19-Mar-2024	284							
446	P4-5825	RC Works Inspection Chamber and Air Valve Chamber	36	36	12-Apr-2024	24-May-2024	29-Feb-2024*	06-Apr-2024	309							
447	P4-5830	Backfilling of drain to at grade level	45	45	29-Apr-2024	21-Jun-2024	14-Mar-2024	30-Apr-2024	284							
448	Rising Main CHB867 to CHB974 (107M) Gang 4-5		128	128	22-Jun-2024	19-Dec-2024	30-Apr-2024	02-Sep-2024	330							
449	P4-6330	Sheet Pile Installation for open trench	55	55	22-Jun-2024	19-Aug-2024	30-Apr-2024	24-Jun-2024	330							
450	P4-6340	Soft Excavation to 1st strut level	64	64	17-Jul-2024	21-Sep-2024	23-May-2024	25-Jul-2024	330							
451	P4-6350	Installation of strut S1	63	63	22-Jul-2024	25-Sep-2024	29-May-2024	29-Jul-2024	330							
452	P4-6380	Soft Excavation to F.L.	44	44	04-Sep-2024	22-Oct-2024	29-May-2024	11-Jul-2024	330							
453	P4-6390	Bedding and Pipe Laying (Twins DN700)	23	23	10-Oct-2024	02-Nov-2024	29-Jun-2024	22-Jul-2024	330							
454	P4-6395	RC Works Inspection Chamber and Air Valve Chamber	51	51	10-Oct-2024	02-Dec-2024	29-Jun-2024	16-Aug-2024	341							
455	P4-6400	Backfilling of drain to at grade level	51	51	29-Oct-2024	19-Dec-2024	16-Jul-2024	02-Sep-2024	330							
456	NS 250 PE Pipe Installation (From KT6.03A to KT6.01)		366	334	15-Jul-2023	17-Jun-2024	28-Dec-2023 A	21-Dec-2024	41							
457	Sewer Pipeline FMH_KT6.03A to FMH_KT6.02A (Gang 5-1)		201	169	15-Jul-2023	15-Jan-2024	28-Dec-2023 A	16-Jul-2024	41							
458	P4-6240	Sheet Pile Installation for open trench	55	55	15-Jul-2023	09-Sep-2023	29-Jan-2024*	23-Mar-2024	41							
459	P4-6250	Soft Excavation to 1st strut level	64	64	14-Aug-2023	20-Oct-2023	28-Dec-2023 A	02-May-2024	41							
460	P4-6260	Installation of strut S1	65	65	17-Aug-2023	26-Oct-2023	27-Feb-2024	03-May-2024	41							
461	P4-6270	Soft Excavation to 2nd strut level	47	47	07-Sep-2023	28-Oct-2023	16-Mar-2024	06-May-2024	41							
462	P4-6280	Installation of strut S2	50	50	19-Sep-2023	11-Nov-2023	27-Mar-2024	20-May-2024	41							
463	P4-6290	Soft Excavation to F.L.	44	44	28-Sep-2023	15-Nov-2023	09-Apr-2024	22-May-2024	41							
464	P4-6300	Bedding and Pipe Laying (NS 250 PE Pipe)	23	23	04-Nov-2023	27-Nov-2023	10-May-2024	01-Jun-2024	41							
465	P4-6305	RC Works of KT6.03A	51	51	04-Nov-2023	27-Dec-2023	10-May-2024	29-Jun-2024	51							
466	P4-6310	Backfilling of drain to at grade level	51	51	22-Nov-2023	15-Jan-2024	28-May-2024	16-Jul-2024	41							
467	Sewer Pipeline FMH_KT6.02A to FMH_KT6.01 (Gang 5-2)		165	165	16-Jan-2024	17-Jun-2024	16-Jul-2024	21-Dec-2024	41							
468	P4-6160	Sheet Pile Installation for open trench	55	55	16-Jan-2024	15-Mar-2024	16-Jul-2024	05-Sep-2024	41							
469	P4-6170	Soft Excavation to 1st strut level	64	64	03-Feb-2024	13-Apr-2024	02-Aug-2024	03-Oct-2024	41							
470	P4-6180	Installation of strut S1	65	65	07-Feb-2024	18-Apr-2024	06-Aug-2024	08-Oct-2024	41							
471	P4-6190	Soft Excavation to 2nd strut level	47	47	22-Feb-2024	11-Apr-2024	02-Sep-2024	19-Oct-2024	41							
472	P4-6200	Installation of strut S2	50	50	05-Mar-2024	25-Apr-2024	12-Sep-2024	31-Oct-2024	41							
473	P4-6210	Soft Excavation to F.L.	44	44	14-Mar-2024	29-Apr-2024	27-Sep-2024	09-Nov-2024	41							
474	P4-6220	Bedding and Pipe Laying (NS 250 PE Pipe)	23	23	13-Apr-2024	07-May-2024	25-Oct-2024	15-Nov-2024	41							
475	P4-6225	RC Works of KT6.02A and KT6.01	51	51	13-Apr-2024	05-Jun-2024	25-Oct-2024	12-Dec-2024	46							
476	P4-6230	Backfilling of drain to at grade level	51	51	24-Apr-2024	17-Jun-2024	04-Nov-2024	21-Dec-2024	41							
477	Rising Main Installation by Pipe Jacking CHB493 to CHB514 (21M)		209	176	26-Dec-2023	03-Jul-2024	27-Dec-2023 A	23-Jul-2024	228							
478	P4-5430	ELS for Launching Pit (3 layers of strut)	43	23	26-Dec-2023	08-Feb-2024	27-Dec-2023 A	22-Feb-2024	228							
479	P4-5440	ELS for Receiving Pit (3 layers of strut)	43	43	26-Dec-2023	08-Feb-2024	27-Dec-2023 A	12-Mar-2024	228							
480	P4-5460	Set up and Assembly TBM (2.1m dia.)	43	43	09-Feb-2024	27-Mar-2024	12-Mar-2024	25-Apr-2024	228							
481	P4-5470	Pipe Jacking from CHB493 to CHB514 (20m, 2.7m/day)	11	11	28-Mar-2024	09-Apr-2024	25-Apr-2024	07-May-2024	228							
482	P4-5480	Removal of TBM	24	24	10-Apr-2024	04-May-2024	07-May-2024	30-May-2024	228							
<div><div><div>Project Baseline Bar</div><div>Primary Baseline</div><div>Actual Work</div><div>Remaining Work</div><div>Critical Remaining Work</div></div><div><div>Baseline Milestone</div></div></div>																

<div><div></div><div>ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui</div></div>			<div><div></div><div>CEDD 土木工程拓展署 Civil Engineering and Development Department</div></div>			Monthly Programme Update (Jan 2024)								
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024				
											Jan	Feb	Mar	Apr
483	P4-5490	Rising main pipe jacking & grouting	7	7	06-May-2024	11-May-2024	30-May-2024	05-Jun-2024	228					
484	P4-5500	Construction of Switch Over chamber	20	20	13-May-2024	01-Jun-2024	05-Jun-2024	25-Jun-2024	228					
485	P4-5510	Backfilling to at grade level	28	28	03-Jun-2024	03-Jul-2024	25-Jun-2024	23-Jul-2024	228					
486	Drainage Outfall constructure by Open Cut		220	189	06-Jul-2023	24-Jan-2024	06-Nov-2023 A	03-Aug-2024	187					
487	Outfall_5105		75	43	06-Jul-2023	21-Aug-2023	06-Nov-2023 A	12-Mar-2024	187					
488	P4-OF1690	Erect formwork for Vertical blinding for base slab shear key	6	4	06-Jul-2023	11-Jul-2023	06-Nov-2023 A	01-Feb-2024	187					
489	P4-OF1700	Pour Concrete shear key blinding	2	2	12-Jul-2023	13-Jul-2023	01-Feb-2024	02-Feb-2024	187					
490	P4-OF1710	Strip off formwork for shear key	1	1	14-Jul-2023	14-Jul-2023	03-Feb-2024	03-Feb-2024	187					
491	P4-OF1720	Erect formwork for Shear key	8	8	15-Jul-2023	22-Jul-2023	03-Feb-2024	15-Feb-2024	187					
492	P4-OF1730	Erect formwork for outfall base slab	1	1	24-Jul-2023	24-Jul-2023	15-Feb-2024	16-Feb-2024	187					
493	P4-OF1740	Erect formwork for outfall Wall (1st side)	3	3	25-Jul-2023	27-Jul-2023	16-Feb-2024	19-Feb-2024	187					
494	P4-OF1750	Rebar fixing for outfall base slab	2	2	28-Jul-2023	29-Jul-2023	19-Feb-2024	21-Feb-2024	187					
495	P4-OF1760	Outfall Baseslab concreting	6	6	31-Jul-2023	04-Aug-2023	21-Feb-2024	27-Feb-2024	187					
496	P4-OF1770	Dismantle Base slab Formwork	3	3	05-Aug-2023	08-Aug-2023	27-Feb-2024	29-Feb-2024	187					
497	P4-OF1780	Rebar fixing for outfall Wall	5	5	09-Aug-2023	12-Aug-2023	29-Feb-2024	05-Mar-2024	187					
498	P4-OF1790	Erect formwork for outfall Wall (2nd side)	3	3	14-Aug-2023	16-Aug-2023	05-Mar-2024	08-Mar-2024	187					
499	P4-OF1800	Outfall Wall concreting	2	2	17-Aug-2023	18-Aug-2023	08-Mar-2024	09-Mar-2024	187					
500	P4-OF1810	Dismantle Wall Formwork	2	2	19-Aug-2023	21-Aug-2023	09-Mar-2024	12-Mar-2024	187					
501	P4-OF1850	Report Completion of Drainage works	0	0		21-Aug-2023		12-Mar-2024	187					
502	Manhole SMH_KT5105		75	75	22-Aug-2023	10-Nov-2023	12-Mar-2024	28-May-2024	187					
503	P4-5060	Trench excavation between KT5105 and Outfall_5105 (30m)	24	24	22-Aug-2023	14-Sep-2023	12-Mar-2024	08-Apr-2024	187					
504	P4-5070	Pipe Laying (2100 Concrete Pipe)	18	18	15-Sep-2023	05-Oct-2023	08-Apr-2024	24-Apr-2024	187					
505	P4-5080	Manhole SMH_KT5105 Construction & Backfill	34	34	06-Oct-2023	10-Nov-2023	25-Apr-2024	28-May-2024	187					
506	Manhole SMH_KT5105A		70	70	11-Nov-2023	24-Jan-2024	29-May-2024	03-Aug-2024	187					
507	P4-5090	Trench excavation between KT5105 and Outfall_5015A (20m)	23	23	11-Nov-2023	04-Dec-2023	29-May-2024	19-Jun-2024	187					
508	P4-5100	Pipe Laying (600 Concrete Pipe)	14	14	05-Dec-2023	18-Dec-2023	20-Jun-2024	03-Jul-2024	187					
509	P4-5110	Manhole SMH_KT5105A Construction & Backfill	34	34	19-Dec-2023	24-Jan-2024	03-Jul-2024	03-Aug-2024	187					
510	Outfall_5104		81	49	06-Jul-2023	26-Aug-2023	03-Jan-2024 A	18-Mar-2024	281					
511	P4-OF1900	Erect formwork for Vertical blinding for base slab shear key	6	4	06-Jul-2023	11-Jul-2023	03-Jan-2024 A	01-Feb-2024	281					
512	P4-OF1910	Pour Concrete shear key blinding	2	2	12-Jul-2023	13-Jul-2023	01-Feb-2024	02-Feb-2024	281					
513	P4-OF1920	Strip off formwork for shear key	1	1	14-Jul-2023	14-Jul-2023	03-Feb-2024	03-Feb-2024	281					
514	P4-OF1930	Erect formwork for Shear key	8	8	15-Jul-2023	22-Jul-2023	03-Feb-2024	15-Feb-2024	281					
515	P4-OF1940	Erect formwork for outfall base slab	1	1	24-Jul-2023	24-Jul-2023	15-Feb-2024	16-Feb-2024	281					
516	P4-OF1950	Erect formwork for outfall Wall (1st side)	3	3	25-Jul-2023	27-Jul-2023	16-Feb-2024	19-Feb-2024	281					
517	P4-OF1960	Rebar fixing for outfall base slab	2	2	28-Jul-2023	29-Jul-2023	19-Feb-2024	21-Feb-2024	281					
518	P4-OF1970	Outfall Baseslab concreting	6	6	31-Jul-2023	04-Aug-2023	21-Feb-2024	27-Feb-2024	281					
519	P4-OF1980	Dismantle Base slab Formwork	3	3	05-Aug-2023	08-Aug-2023	27-Feb-2024	29-Feb-2024	281					
520	P4-OF1990	Rebar fixing for outfall Wall	5	5	09-Aug-2023	12-Aug-2023	29-Feb-2024	05-Mar-2024	281					
521	P4-OF2000	Erect formwork for outfall Wall (2nd side)	3	3	14-Aug-2023	16-Aug-2023	05-Mar-2024	08-Mar-2024	281					
522	P4-OF2010	Outfall Wall concreting	2	2	17-Aug-2023	18-Aug-2023	08-Mar-2024	09-Mar-2024	281					
523	P4-OF2020	Dismantle Wall Formwork	2	2	19-Aug-2023	21-Aug-2023	09-Mar-2024	12-Mar-2024	281					
524	P4-OF2050	Remove remaining side sheet pile & rock fill	6	6	22-Aug-2023	26-Aug-2023	12-Mar-2024	18-Mar-2024	281					
525	Manhole SMH_KT5104		45	45	28-Aug-2023	14-Oct-2023	18-Mar-2024	04-May-2024	281					
526	P4-5120	Trench excavation between KT5104 and Outfall_5104 (30m)	18	18	28-Aug-2023	14-Sep-2023	18-Mar-2024	08-Apr-2024	281					
527	P4-5130	Pipe Laying (900 Concrete Pipe)	9	9	15-Sep-2023	23-Sep-2023	08-Apr-2024	16-Apr-2024	281					
528	P4-5140	Manhole SMH_KT5104 Construction & Backfill	18	18	25-Sep-2023	14-Oct-2023	16-Apr-2024	04-May-2024	281					
529	P4-5145	Report Completion of Drainage works	0	0		14-Oct-2023		04-May-2024	281					
530	Reinstatement		174	174	22-Jun-2024	24-Dec-2024	21-Dec-2024	16-Jun-2025	41					
531	P4-5150	Utilities Works (Telecom & electricity)	107	107	22-Jun-2024	15-Oct-2024	21-Dec-2024	08-Apr-2025	41					
532	P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	68	68	16-Oct-2024	24-Dec-2024	08-Apr-2025	16-Jun-2025	41					
533	Portion 5 - Sewage Rising Main		1939	532	10-Apr-2020	11-Feb-2025	10-Apr-2020 A	09-Jul-2025	18					
534	Preparation Works		1600	221	10-Apr-2020	24-Dec-2024	10-Apr-2020 A	03-Sep-2024	328					
535	P5-5030	Tree Protection and Preservation	1600	221	10-Apr-2020	24-Dec-2024	10-Apr-2020 A	03-Sep-2024	328					
536	Sewage Rising Main Installation by Open Cut (CHB1056 to CHB 1557)		514	464	25-Mar-2023	27-Nov-2024	09-Dec-2023 A	05-May-2025	18					
537	CHB1056 - CHB1102 (46m)		118	118	25-Mar-2023	17-Jul-2023	29-Jan-2024	28-May-2024	364					
538	P5-2300	Sheet Pile Installation for open trench	17	17	25-Mar-2023	11-Apr-2023	29-Jan-2024	16-Feb-2024	18					
539	P5-2310	Soft Excavation to 1st strut level	17	17	29-Mar-2023	14-Apr-2023	31-Jan-2024	20-Feb-2024	364					
540	P5-2320	Installation of strut S1	23	23	05-Apr-2023	27-Apr-2023	07-Feb-2024	02-Mar-2024	364					
541	P5-2330	Soft Excavation to 2nd strut level	17	17	12-Apr-2023	28-Apr-2023	22-Feb-2024	08-Mar-2024	364					
542	P5-2340	Installation of strut S2	23	23	19-Apr-2023	12-May-2023	28-Feb-2024	20-Mar-2024	364					
543	P5-2350	Soft Excavation to F.L.	17	17	02-May-2023	18-May-2023	14-Mar-2024	03-Apr-2024	364					
544	P5-2360	Bedding and Pipe Laying (Twins DN700)	11	11	17-May-2023	27-May-2023	28-Mar-2024	12-Apr-2024	364					
545	P5-2365	RC Works Inspection Chamber and Air Valve Chamber	51	51	17-May-2023	10-Jul-2023	28-Mar-2024	22-May-2024	364					
546	P5-2370	Backfilling to at grade level	28	28	16-Jun-2023	17-Jul-2023	30-Apr-2024	28-May-2024	364					
547	CHB1102 - CHB1151 (49m)		138	88	28-Jul-2023	08-Nov-2023	09-Dec-2023 A	27-Apr-2024	18					
548	P5-2120	Installation of strut S1	23	3	28-Jul-2023	19-Aug-2023	09-Dec-2023 A	31-Jan-2024	18					
549	P5-2130	Soft Excavation to 2nd strut level	17	11	04-Aug-2023	21-Aug-2023	21-Dec-2023 A	07-Feb-2024	18					
550	P5-2140	Installation of strut S2	23	22	11-Aug-2023	02-Sep-2023	29-Dec-2023 A	21-Feb-2024	18					
551	P5-2150	Soft Excavation to F.L.	17	17	23-Aug-2023	08-Sep-2023	16-Feb-2024	02-Mar-2024	18					
552	P5-2160	Bedding and Pipe Laying (Twins DN700)	11	11	07-Sep-2023	18-Sep-2023	29-Feb-2024	11-Mar-2024	18					

<div></div> Project Baseline Bar	<div></div> Baseline Milestone	Data Date: 29-Jan-2024	<div>4 MONTH ROLLING PROGRAMME</div> <div>(Jan - Apr 2024)</div>	<div></div> Date	<div></div> Revision	<div></div> Checked	<div></div> Approved	<div>Page No. 9 of 25</div> <div>TASK filter: DD+4M Lookahead.</div> <div>ND/2019/02_MPU with Baseline (2.5)</div>
<div></div> Primary Baseline	<div></div> Critical Milestone	Project Start: 03-Feb-2020		29-Jan-2024	0	RP	EW	
<div></div> Actual Work	<div></div> Non-Critical Milestone	Project End: 08-Sep-2026						
<div></div> Remaining Work	<div></div> Summary	Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)						
<div></div> Critical Remaining Work								

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

Monthly Programme Update (Jan 2024)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024			
										Jan	Feb	Mar	Apr
622	P6-1010	Site Setup and ELS of Receiving Pit	30	30	20-Jun-2024	22-Jul-2024	20-Jun-2024	19-Jul-2024	232				
623	P6-1020	Construction of Sewage Discharge Manhole SSM1 to +0.63mPD at CHB 1752	45	45	23-Jul-2024	06-Sep-2024	19-Jul-2024	30-Aug-2024	232				
624	P6-1030	Construction of Sewage Discharge Manhole SSM1 at CHB 1752 to Road Level	45	45	07-Sep-2024	26-Oct-2024	30-Aug-2024	15-Oct-2024	232				
625	P6-1040	Joint Inspection with others for connection to sewer pipe	18	18	28-Oct-2024	14-Nov-2024	15-Oct-2024	31-Oct-2024	232				
626	P6-1050	Reinstatement of disturbed landscape area	38	38	15-Nov-2024	24-Dec-2024	31-Oct-2024	06-Dec-2024	232				
627	Portion 7 - Kwu Tung North Sewage Pumping station		1891	597	03-Aug-2020	05-Mar-2025	03-Aug-2020 A	08-Sep-2025	-48				
628	Sewage Pumping Station		1891	597	03-Aug-2020	05-Mar-2025	03-Aug-2020 A	08-Sep-2025	-48				
629	Site Preparation		1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322				
630	P7-1040	Tree Protection and Preservation	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	322				
631	Station Structure		109	74	10-Jul-2023	17-Oct-2023	22-Dec-2023 A	15-Apr-2024	97				
632	Basement to G/F Wall & G/F Slab		25	25	10-Jul-2023	07-Aug-2023	29-Jan-2024	23-Feb-2024	100				
633	+7.50mPD (G/F Slab)		25	25	10-Jul-2023	07-Aug-2023	29-Jan-2024	23-Feb-2024	100				
634	Bay 1		14	14	10-Jul-2023	22-Jul-2023	29-Jan-2024	09-Feb-2024	111				
635	P7-BF2150	Wall & Slab Construction (along Grid B up to +7.65mPD)	14	14	10-Jul-2023	22-Jul-2023	29-Jan-2024	09-Feb-2024	111				
636	Bay 3		25	25	13-Jul-2023	07-Aug-2023	29-Jan-2024	23-Feb-2024	97				
637	P7-BF2170	Wall & Slab Construction (along Grid D to E)	25	25	13-Jul-2023	07-Aug-2023	29-Jan-2024	23-Feb-2024	97				
638	Tx Room Double Slab at +12.55mPD		23	23	19-Aug-2023	11-Sep-2023	29-Jan-2024	21-Feb-2024	28				
639	P7-Tx1000	Construction of Tx Rm Double Slab at +12.55mPD	23	23	19-Aug-2023	11-Sep-2023	29-Jan-2024	21-Feb-2024	28				
640	Roof Slab		109	74	05-Aug-2023	17-Oct-2023	22-Dec-2023 A	15-Apr-2024	97				
641	Bay 1		71	24	05-Aug-2023	02-Sep-2023	23-Dec-2023 A	06-Mar-2024	111				
642	P7-RF1020	Rebar Fixing for G/F to R/F Wall	6	1	05-Aug-2023	10-Aug-2023	23-Dec-2023 A	14-Feb-2024	111				
643	P7-RF1030	Erection of remaining side formwork for G/F to R/F Wall	5	5	11-Aug-2023	15-Aug-2023	14-Feb-2024	19-Feb-2024	111				
644	P7-RF1040	Erection of falsework and working platform for R/F Slab	5	5	16-Aug-2023	19-Aug-2023	19-Feb-2024	22-Feb-2024	111				
645	P7-RF1050	Erection of Formwork for R/F Slab	6	6	21-Aug-2023	25-Aug-2023	22-Feb-2024	28-Feb-2024	111				
646	P7-RF1060	Rebar Fixing for R/F Slab	5	5	26-Aug-2023	30-Aug-2023	28-Feb-2024	02-Mar-2024	111				
647	P7-RF1070	R/F Slab Shutters	2	2	31-Aug-2023	01-Sep-2023	02-Mar-2024	05-Mar-2024	111				
648	P7-RF1080	R/F Slab & G/F to R/F wall Concreting	1	1	02-Sep-2023	02-Sep-2023	05-Mar-2024	06-Mar-2024	111				
649	Bay 2		50	17	08-Aug-2023	19-Sep-2023	27-Dec-2023 A	16-Feb-2024	94				
650	P7-RF1090	Erection of falsework and working platform for G/F to R/F wall	7	7	08-Aug-2023	14-Aug-2023	29-Jan-2024	03-Feb-2024	94				
651	P7-RF1140	Erection of Formwork for R/F Slab	6	1	05-Sep-2023	09-Sep-2023	27-Dec-2023 A	05-Feb-2024	94				
652	P7-RF1150	Rebar Fixing for R/F Slab	6	6	11-Sep-2023	15-Sep-2023	05-Feb-2024	09-Feb-2024	94				
653	P7-RF1160	R/F Slab Shutters	2	2	16-Sep-2023	18-Sep-2023	09-Feb-2024	15-Feb-2024	94				
654	P7-RF1170	R/F Slab & G/F to R/F wall Concreting	1	1	19-Sep-2023	19-Sep-2023	15-Feb-2024	16-Feb-2024	94				
655	Bay 3		95	35	08-Aug-2023	18-Sep-2023	22-Dec-2023 A	27-Mar-2024	97				
656	P7-RF1180	Erection of falsework and working platform for G/F to R/F wall	7	1	08-Aug-2023	14-Aug-2023	22-Dec-2023 A	24-Feb-2024	97				
657	P7-RF1190	Erection of One Side Formwork for G/F to R/F Wall	5	5	15-Aug-2023	18-Aug-2023	24-Feb-2024	29-Feb-2024	97				
658	P7-RF1200	Rebar Fixing for G/F to R/F Wall	5	5	19-Aug-2023	23-Aug-2023	29-Feb-2024	04-Mar-2024	97				
659	P7-RF1210	Erection of remaining side formwork for G/F to R/F Wall	7	7	24-Aug-2023	30-Aug-2023	04-Mar-2024	11-Mar-2024	97				
660	P7-RF1220	Erection of falsework and working platform for R/F Slab	5	5	31-Aug-2023	04-Sep-2023	11-Mar-2024	14-Mar-2024	97				
661	P7-RF1230	Erection of Formwork for R/F Slab	5	5	05-Sep-2023	08-Sep-2023	14-Mar-2024	19-Mar-2024	97				
662	P7-RF1240	Rebar Fixing for R/F Slab	5	5	09-Sep-2023	13-Sep-2023	19-Mar-2024	22-Mar-2024	97				
663	P7-RF1250	R/F Slab Shutters	3	3	14-Sep-2023	16-Sep-2023	23-Mar-2024	26-Mar-2024	97				
664	P7-RF1260	R/F Slab & G/F to R/F wall Concreting	1	1	18-Sep-2023	18-Sep-2023	26-Mar-2024	27-Mar-2024	97				
665	Bay 4		107	51	16-Sep-2023	17-Oct-2023	27-Dec-2023 A	15-Apr-2024	97				
666	P7-RF1280	Erection of One Side Formwork for G/F to R/F Wall	5	1	16-Sep-2023	20-Sep-2023	27-Dec-2023 A	22-Feb-2024	123				
667	P7-RF1290	Rebar Fixing for G/F to R/F Wall	5	5	21-Sep-2023	25-Sep-2023	22-Feb-2024	27-Feb-2024	123				
668	P7-RF1300	Erection of remaining side formwork for G/F to R/F Wall	5	5	26-Sep-2023	29-Sep-2023	27-Feb-2024	01-Mar-2024	123				
669	P7-RF1310	Erection of falsework and working platform for R/F Slab	6	6	03-Oct-2023	07-Oct-2023	02-Mar-2024	07-Mar-2024	123				
670	P7-RF1320	Erection of Formwork for R/F Slab	2	2	09-Oct-2023	10-Oct-2023	07-Mar-2024	09-Mar-2024	123				
671	P7-RF1330	Rebar Fixing for R/F Slab	3	3	11-Oct-2023	13-Oct-2023	09-Mar-2024	12-Mar-2024	123				
672	P7-RF1340	R/F Slab Shutters	2	2	14-Oct-2023	16-Oct-2023	13-Mar-2024	14-Mar-2024	123				
673	P7-RF1350	R/F Slab & G/F to R/F wall Concreting	1	1	17-Oct-2023	17-Oct-2023	13-Apr-2024	15-Apr-2024	97				
674	Retaining Wall & U trough		223	132	13-Jul-2023	07-Dec-2023	01-Nov-2023 A	11-Jun-2024	72				
675	P7-RW1209	Construction of U Trough RC Structure wall (KW08 Type B)(Wall Founding level +5.6mPD)	39	32	13-Jul-2023	22-Aug-2023	01-Nov-2023 A	01-Mar-2024	72				
676	P7-RW1211	Soil backfill From +5.3mPD to +6.2mPD with testing	34	34	23-Aug-2023	26-Sep-2023	01-Mar-2024	06-Apr-2024	72				
677	P7-RW1213	Construction of U Trough RC Structure wall (KW08 Type A)(Wall Founding level +6.2mPD)	51	51	27-Sep-2023	21-Nov-2023	06-Apr-2024	25-May-2024	72				
678	P7-RW1214	Backfill to formation level to +7.5mPD	34	34	03-Nov-2023	07-Dec-2023	08-May-2024	11-Jun-2024	72				
679	ABWF/ E&M Works		446	446	18-Sep-2023	04-Oct-2024	08-Feb-2024	28-Apr-2025	-1				
680	Basement Floor		370	370	18-Sep-2023	03-Jul-2024	08-Feb-2024	11-Feb-2025	-14				
681	Valve Chamber		289	289	09-Oct-2023	03-Jun-2024	09-Apr-2024	16-Jan-2025	-2				
682	P7-VC0900	Dismantling Falsework from R/F to B/F	14	14	09-Oct-2023	21-Oct-2023	09-Apr-2024	22-Apr-2024	111				
683	P7-VC1000	Access Date of Valve Chamber Builders works	0	0	24-Oct-2023		22-Apr-2024		111				
684	P7-VC1005	Concrete Defect Repairing	6	6	24-Oct-2023	28-Oct-2023	22-Apr-2024	27-Apr-2024	111				
685	P7-VC1100	Concrete Plinth for resting the twins rising mains	8	8	30-Oct-2023	06-Nov-2023	27-Apr-2024	06-May-2024	111				
686	P7-VC1200	Waterproofing works of Valve Chamber	5	5	07-Nov-2023	10-Nov-2023	06-May-2024	09-May-2024	111				
687	P7-VC1210	Flooding Test and Infra Red test after waterproofing	5	5	11-Nov-2023	15-Nov-2023	10-May-2024	14-May-2024	111				
688	P7-VC1220	Floor Screed	1	1	16-Nov-2023	16-Nov-2023	14-May-2024	16-May-2024	111				
689	P7-VC1225	Erect working platform from +1.55mPD to +7.65mPD for Steel Staircase Installation	14	14	17-Nov-2023	30-Nov-2023	16-May-2024	29-May-2024	111				

Project Baseline Bar

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Baseline Milestone

Critical Milestone

Non-Critical Milestone

Summary

Data Date: 29-Jan-2024

Project Start: 03-Feb-2020

Project End: 08-Sep-2026

Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)

4 MONTH ROLLING PROGRAMME

(Jan - Apr 2024)

Date	Revision	Checked	Approved
29-Jan-2024	0	RP	EW

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TASK filter: DD+4M Lookahead.

ND/2019/02_MPU with Baseline (2.5)

<div><div></div><div>ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui</div></div>			<div><div></div><div>CEDD 土木工程拓展署 Civil Engineering and Development Department</div></div>			Monthly Programme Update (Jan 2024)							
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024			
										Jan	Feb	Mar	Apr
690	P7-VC1227	Steel Staircase Installation (+1.55mPD to +4.35mPD)	11	11	01-Dec-2023	12-Dec-2023	29-May-2024	08-Jun-2024	111				
691	P7-VC1230	Twins rising mains Installation with connection to wet well and outside external area	79	79	12-Mar-2024	03-Jun-2024	31-Oct-2024	16-Jan-2025	-2				
692	Wet Well		359	359	18-Sep-2023	18-Jun-2024	08-Feb-2024	28-Jan-2025	-14				
693	P7-WW1000	Access Date of Wet Well Builders works	0	0	18-Sep-2023		08-Feb-2024		261				
694	P7-WW1100	Scaffolding and working platform modification	6	6	18-Sep-2023	22-Sep-2023	08-Feb-2024	17-Feb-2024	261				
695	P7-WW1110	Wall and Ceiling Waterproofing, testing and screeding	10	10	23-Sep-2023	05-Oct-2023	17-Feb-2024	27-Feb-2024	261				
696	P7-WW1120	Submersible Sewerage Pump Installation and Pipe Connection to Valve Chamber	45	45	08-Apr-2024	24-May-2024	22-Nov-2024	07-Jan-2025	-14				
697	P7-WW1130	Cat Ladder Installation	11	11	25-May-2024	05-Jun-2024	07-Jan-2025	17-Jan-2025	-14				
698	P7-WW1140	Filling of Void of wet well	11	11	06-Jun-2024	18-Jun-2024	17-Jan-2025	28-Jan-2025	-14				
699	Screen Chamber & Retention Tank		283	283	02-Nov-2023	03-Jul-2024	09-May-2024	11-Feb-2025	-14				
700	P7-SC1000	Access Date of Screen Chamber Builders works	0	0	02-Nov-2023		09-May-2024		195				
701	P7-SC1010	Scaffolding and working platform erection	11	11	02-Nov-2023	13-Nov-2023	09-May-2024	21-May-2024	195				
702	P7-SC1020	Wall and Ceiling Waterproofing and testing	11	11	14-Nov-2023	24-Nov-2023	21-May-2024	31-May-2024	195				
703	P7-SC1030	Pipe work Installation and Bar Screen Installation	28	28	12-Mar-2024	10-Apr-2024	14-Oct-2024	09-Nov-2024	56				
704	P7-SC1040	Cat Ladder / Penstock Installation	11	11	11-Apr-2024	22-Apr-2024	09-Nov-2024	20-Nov-2024	56				
705	P7-SC1050	T&C for Basement Floor Equipment	11	11	21-Jun-2024	03-Jul-2024	28-Jan-2025	11-Feb-2025	-14				
706	Ground Floor		401	401	09-Oct-2023	04-Oct-2024	25-Mar-2024	28-Apr-2025	-48				
707	Tx Room / Switch Room		226	226	26-Oct-2023	20-Jun-2024	02-Apr-2024	08-Nov-2024	24				
708	P7-Tx3000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	0	26-Oct-2023		02-Apr-2024		15				
709	ABWF		132	132	26-Oct-2023	05-Feb-2024	02-Apr-2024	09-Aug-2024	24				
710	P7-Tx3010	Setting Out	2	2	26-Oct-2023	27-Oct-2023	02-Apr-2024	05-Apr-2024	29				
711	P7-Tx3020	Access Date of Tx Room Double Slab Builders works	0	0	26-Oct-2023		02-Apr-2024		28				
712	P7-Tx3025	Formwork dismantling and touch up works	7	7	26-Oct-2023	01-Nov-2023	02-Apr-2024	09-Apr-2024	28				
713	P7-Tx3030	Waterproofing works of Tx Room Double Slab	7	7	02-Nov-2023	08-Nov-2023	09-Apr-2024	16-Apr-2024	28				
714	P7-Tx3040	Flooding Test and Infra Red test after waterproofing	7	7	09-Nov-2023	15-Nov-2023	16-Apr-2024	22-Apr-2024	28				
715	P7-Tx3050	Erect Scaffolding for wall and ceiling finishes of Tx Rm	3	3	28-Oct-2023	31-Oct-2023	05-Apr-2024	08-Apr-2024	29				
716	P7-Tx3060	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	02-Nov-2023	15-Nov-2023	09-Apr-2024	22-Apr-2024	28				
717	P7-Tx3070	Wall Finishes (Wal plastering, Louvre Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	14	14	16-Nov-2023	29-Nov-2023	22-Apr-2024	06-May-2024	28				
718	P7-Tx3080	Cable Trench Plastering	14	14	23-Nov-2023	06-Dec-2023	29-Apr-2024	11-May-2024	28				
719	P7-Tx3090	Cable Trench Angle Frame Installation	8	8	07-Dec-2023	14-Dec-2023	11-May-2024	21-May-2024	28				
720	P7-Tx3100	Floor Screeding	6	6	15-Dec-2023	20-Dec-2023	21-May-2024	25-May-2024	28				
721	P7-Tx3110	Metal Door Frame Installation	3	3	21-Dec-2023	23-Dec-2023	25-May-2024	29-May-2024	63				
722	P7-Tx3120	Ceiling And Wall Painting (Final Coat)	7	7	26-Dec-2023	02-Jan-2024	29-May-2024	04-Jun-2024	63				
723	P7-Tx3130	Chequer Plate Installation	7	7	03-Jan-2024	09-Jan-2024	04-Jun-2024	12-Jun-2024	63				
724	P7-Tx3135	Louvrves Installation	2	2	03-Jan-2024	04-Jan-2024	04-Jun-2024	06-Jun-2024	67				
725	P7-Tx3140	Painting to Chequer Plate	6	6	10-Jan-2024	15-Jan-2024	12-Jun-2024	17-Jun-2024	63				
726	P7-Tx3150	Floor Dust Proof Coating	11	11	16-Jan-2024	26-Jan-2024	17-Jun-2024	27-Jun-2024	63				
727	P7-Tx3160	Durasteel Installation to Air Duct	3	3	27-Jan-2024	30-Jan-2024	27-Jun-2024	02-Jul-2024	63				
728	P7-Tx3170	Metal Door Leaf Installation	2	2	03-Feb-2024	05-Feb-2024	07-Aug-2024	09-Aug-2024	24				
729	BS Works		172	172	21-Dec-2023	20-Jun-2024	25-May-2024	08-Nov-2024	24				
730	Electrical Works		74	74	21-Dec-2023	12-Mar-2024	25-May-2024	06-Aug-2024	28				
731	P7-Tx3190	Intallation (Electrical) of Conduit at Tx Room	5	5	21-Dec-2023	26-Dec-2023	25-May-2024	30-May-2024	28				
732	P7-Tx3200	Cable Wiring at Tx Room	3	3	27-Dec-2023	29-Dec-2023	30-May-2024	01-Jun-2024	28				
733	P7-Tx3210	Installation of Light Fitting at Tx Room	5	5	30-Dec-2023	04-Jan-2024	03-Jun-2024	06-Jun-2024	28				
734	P7-Tx3220	Delivery of Cable Tray	3	3	05-Jan-2024	08-Jan-2024	06-Jun-2024	11-Jun-2024	28				
735	P7-Tx3230	Installation of Cable Tray over ceiling	7	7	09-Jan-2024	15-Jan-2024	11-Jun-2024	17-Jun-2024	28				
736	P7-Tx3240	Intallation (Electrical) of Conduit at Switch Room	6	6	16-Jan-2024	20-Jan-2024	17-Jun-2024	22-Jun-2024	28				
737	P7-Tx3250	Cable Wiring at Switch Room	6	6	22-Jan-2024	26-Jan-2024	22-Jun-2024	27-Jun-2024	28				
738	P7-Tx3260	Installation of Light Fitting at Switch Room	6	6	27-Jan-2024	01-Feb-2024	27-Jun-2024	04-Jul-2024	28				
739	P7-Tx3270	FAT of Switchboard	3	3	02-Feb-2024	05-Feb-2024	04-Jul-2024	06-Jul-2024	28				
740	P7-Tx3280	Delivery and assembly of Switchboard at Switch Room	26	26	06-Feb-2024	06-Mar-2024	06-Jul-2024	31-Jul-2024	28				
741	P7-Tx3290	SAT of Switchboard	1	1	07-Mar-2024	07-Mar-2024	31-Jul-2024	01-Aug-2024	28				
742	P7-Tx3300	Installation of MCB Board	5	5	16-Jan-2024	19-Jan-2024	17-Jun-2024	21-Jun-2024	41				
743	P7-Tx3310	Installation of Earthing System at Tx Room and Switch Room	6	6	20-Jan-2024	25-Jan-2024	21-Jun-2024	26-Jun-2024	41				
744	P7-Tx3320	System T&C (Electrical Works)	6	6	26-Jan-2024	31-Jan-2024	26-Jun-2024	03-Jul-2024	41				
745	P7-Tx3330	Installation of Lighting conductors	8	8	01-Feb-2024	08-Feb-2024	03-Jul-2024	10-Jul-2024	41				
746	P7-Tx3340	Installation of Lightning Pits	5	5	09-Feb-2024	16-Feb-2024	10-Jul-2024	15-Jul-2024	41				
747	P7-Tx3350	Installation of Earthing Pits	6	6	02-Mar-2024	07-Mar-2024	27-Jul-2024	01-Aug-2024	28				
748	P7-Tx3360	Earthing and Lightning T&C	5	5	08-Mar-2024	12-Mar-2024	01-Aug-2024	06-Aug-2024	28				
749	MVAC Works		32	32	21-Dec-2023	24-Jan-2024	25-May-2024	25-Jun-2024	70				
750	P7-Tx3380	Intallation (MVAC) of Conduit at Tx Room	5	5	21-Dec-2023	26-Dec-2023	25-May-2024	30-May-2024	70				
751	P7-Tx3390	Cable Wiring (MVAC) of Conduit at Tx Room	2	2	27-Dec-2023	28-Dec-2023	30-May-2024	01-Jun-2024	70				
752	P7-Tx3400	Installation of Fan and Air Duct at Tx Room	6	6	29-Dec-2023	04-Jan-2024	01-Jun-2024	06-Jun-2024	70				
753	P7-Tx3410	Installation of Fan Controller at Tx Room	3	3	05-Jan-2024	08-Jan-2024	06-Jun-2024	11-Jun-2024	70				
754	P7-Tx3420	Installation of Fan and Air Duct at Switchroom	6	6	09-Jan-2024	13-Jan-2024	11-Jun-2024	15-Jun-2024	70				
755	P7-Tx3430	Installation of LMCP at Switchroom	2	2	15-Jan-2024	16-Jan-2024	15-Jun-2024	18-Jun-2024	70				
756	P7-Tx3440	System T&C (MVAC Works)	8	8	17-Jan-2024	24-Jan-2024	18-Jun-2024	25-Jun-2024	70				
757	FS Works		39	39	21-Dec-2023	01-Feb-2024	25-May-2024	04-Jul-2024	63				
758	P7-Tx3450	Intallation (FS) of Conduit at Tx Room	5	5	21-Dec-2023	26-Dec-2023	25-May-2024	30-May-2024	63				
759	P7-Tx3460	Cable Wiring (FS) of Conduit at Tx Room	2	2	27-Dec-2023	28-Dec-2023	30-May-2024	01-Jun-2024	63				
<div><div><div>Project Baseline Bar</div><div>Primary Baseline</div><div>Actual Work</div><div>Remaining Work</div><div>Critical Remaining Work</div></div><div><div><div>Baseline Milestone</div><div>Critical Milestone</div><div>Non-Critical Milestone</div><div>Summary</div></div></div></div>													
Data Date: 29-Jan-2024 Project Start: 03-Feb-2020 Project End: 08-Sep-2026 Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)										4 MONTH ROLLING PROGRAMME (Jan - Apr 2024)			
										Date	Revision	Checked	Approved
										29-Jan-2024	0	RP	EW
										Page No. 11 of 25 TASK filter: DD+4M Lookahead. ND/2019/02_MPU with Baseline (2.5)			

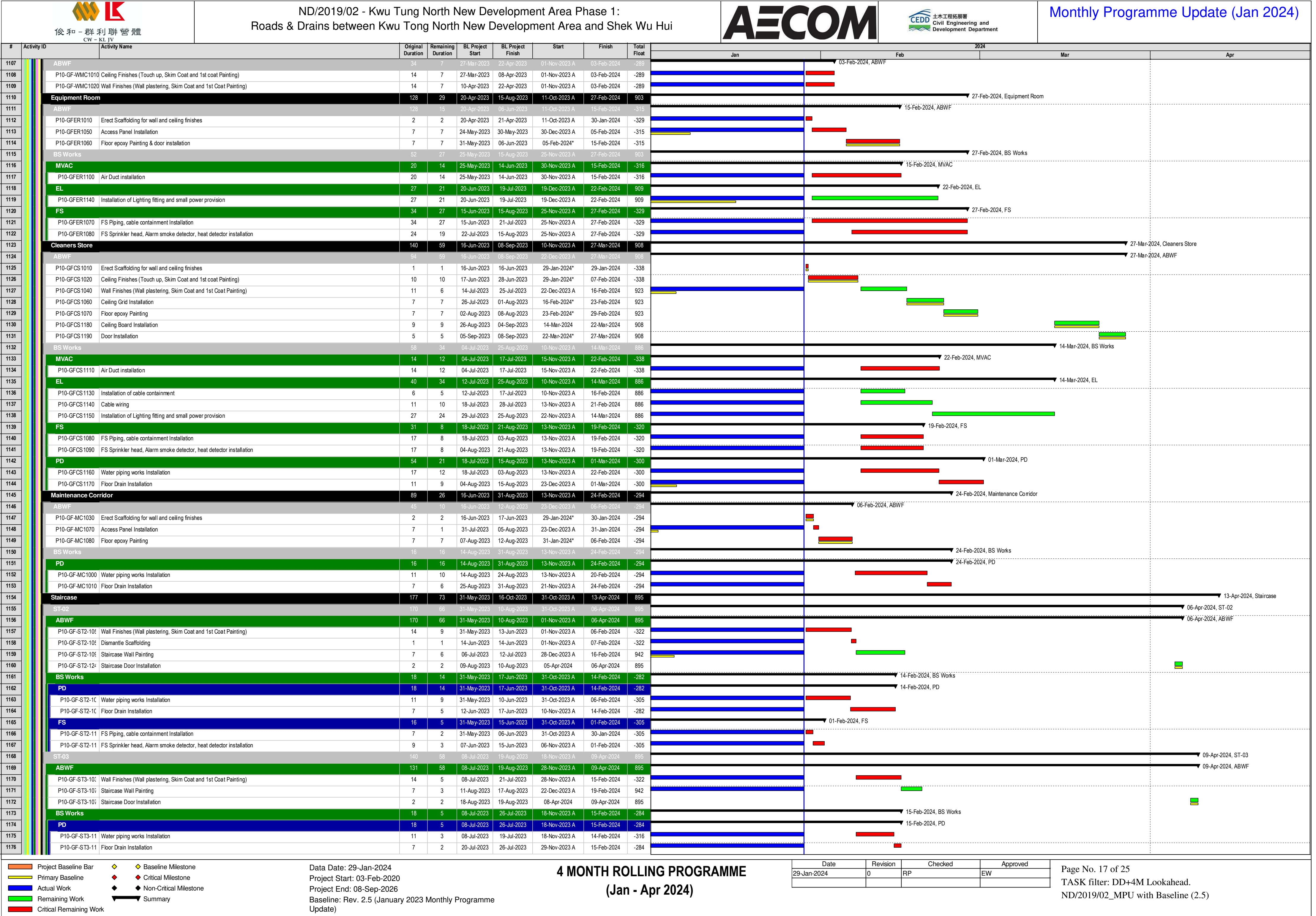
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ND/2019/02_MPU with Baseline (2.5)

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TASK filter: DD+4M Lookahead.
ND/2019/02_MPU with Baseline (2.5)

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ND/2019/02_MPU with Baseline (2.5)




<div><div><div></div><div></div></div><div>俊和 – 群利聯營體</div><div>CW – KL JV</div></div>			ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui							<div><div>AECOM</div></div>		<div><div>CEDD</div><div>土木工程拓展署</div><div>Civil Engineering and Development Department</div></div>		Monthly Programme Update (Jan 2024)			
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024							
										Jan	Feb	Mar	Apr				
967	P9-1602	Bridge Lamp Post Installation	17	17	24-Jul-2023	09-Aug-2023	03-Feb-2024	23-Feb-2024	-229								
968	P9-1603	South Bridge Drainage works	39	37	29-Jun-2023	09-Aug-2023	28-Dec-2023 A	02-Apr-2024	-268								
969	Landscape Works		82	82	10-Aug-2023	06-Nov-2023	20-May-2024	06-Aug-2024	-314								
970	P9-1615	Formation of Slope profile by rock fill	16	16	10-Aug-2023	25-Aug-2023	20-May-2024	03-Jun-2024	-314								
971	P9-1617	Placing soil erosion control system (Incl. control mats, geotextile and soil fill)	23	23	26-Aug-2023	18-Sep-2023	03-Jun-2024	25-Jun-2024	-314								
972	P9-1619	Paving block laying to finished floor level	16	16	19-Sep-2023	06-Oct-2023	25-Jun-2024	11-Jul-2024	-314								
973	P9-1623	Hydroseeding and tree planting works (11nos)	28	28	07-Oct-2023	06-Nov-2023	11-Jul-2024	06-Aug-2024	-314								
974	Works in Section 4		1896	602	03-Aug-2020	28-Mar-2025	03-Aug-2020 A	12-Sep-2025	365								
975	Portion 10 - Visitor Centre		1896	602	03-Aug-2020	28-Mar-2025	03-Aug-2020 A	12-Sep-2025	365								
976	Pre-construction works		1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	321								
977	P10-1040	Tree Protection and Preservation	1493	228	03-Aug-2020	24-Dec-2024	03-Aug-2020 A	10-Sep-2024	321								
978	Visitor Centre		905	602	10-Feb-2023	28-Mar-2025	31-Aug-2023 A	12-Sep-2025	365								
979	ABWF / E&M Works		528	226	27-Mar-2023	14-Mar-2024	18-Sep-2023 A	07-Sep-2024	742								
980	Basement Floor		249	39	22-May-2023	21-Sep-2023	18-Sep-2023 A	08-Mar-2024	-322								
981	Rainwater Harvesting Tank / Irrigation Pump Room		100	5	02-Jun-2023	30-Jun-2023	20-Sep-2023 A	01-Feb-2024	-287								
982	ABWF		100	5	02-Jun-2023	30-Jun-2023	20-Sep-2023 A	01-Feb-2024	-287								
983	P10-BFRH-1080	Concrete Plinth Casting and finishes	14	1	02-Jun-2023	15-Jun-2023	20-Sep-2023 A	29-Jan-2024	-287								
984	P10-BFRH-1090	Floor Screeding	2	2	16-Jun-2023	17-Jun-2023	02-Oct-2023 A	30-Jan-2024	-287								
985	P10-BFRH-1100	Access Panel and Cat Ladder Installation to water tank and door installation	11	2	19-Jun-2023	30-Jun-2023	05-Oct-2023 A	01-Feb-2024	-287								
986	Sprinkler & FS Pump Room		168	39	22-May-2023	21-Sep-2023	18-Sep-2023 A	08-Mar-2024	-339								
987	BS Works		168	39	22-May-2023	21-Sep-2023	18-Sep-2023 A	08-Mar-2024	-339								
988	PD		31	2	27-May-2023	08-Jul-2023	18-Sep-2023 A	30-Jan-2024	-308								
989	P10-BFFS-1050	Installation of pipework, pumps, LMCP and accessories	31	2	27-May-2023	08-Jul-2023	18-Sep-2023 A	30-Jan-2024	-308								
990	EL		31	3	22-May-2023	03-Jul-2023	30-Sep-2023 A	31-Jan-2024	-309								
991	P10-BFFS-1090	Installation of Lighting fitting and small power provision	31	3	22-May-2023	03-Jul-2023	30-Sep-2023 A	31-Jan-2024	-309								
992	FS		6	6	16-Sep-2023	21-Sep-2023	02-Mar-2024	08-Mar-2024	-339								
993	P10-BFFS-1230	T&C of FS Plants	6	6	16-Sep-2023	21-Sep-2023	02-Mar-2024	08-Mar-2024	-339								
994	Ground Floor		473	170	27-Mar-2023	24-Feb-2024	25-Sep-2023 A	17-Jul-2024	798								
995	Generator Room		135	34	13-May-2023	15-Aug-2023	30-Sep-2023 A	02-Mar-2024	-334								
996	ABWF		11	6	16-Jun-2023	28-Jun-2023	09-Nov-2023 A	02-Feb-2024	-334								
997	P10-GFGS1080	Floor epoxy Painting & door installation	11	6	16-Jun-2023	28-Jun-2023	09-Nov-2023 A	02-Feb-2024	-334								
998	BS Works		118	34	13-May-2023	15-Aug-2023	30-Sep-2023 A	02-Mar-2024	-334								
999	EL		37	28	29-Jun-2023	15-Aug-2023	04-Nov-2023 A	02-Mar-2024	-334								
1000	P10-GFGS1170	Genset Installation	27	19	29-Jun-2023	03-Aug-2023	04-Nov-2023 A	23-Feb-2024	-334								
1001	P10-GFGS1180	T&C of Genset	9	9	04-Aug-2023	15-Aug-2023	30-Nov-2023 A	02-Mar-2024	-334								
1002	FS		75	9	13-May-2023	13-Jul-2023	30-Sep-2023 A	06-Feb-2024	-310								
1003	P10-GFGS1090	FS Piping, cable containment Installation	27	5	13-May-2023	16-Jun-2023	30-Sep-2023 A	02-Feb-2024	-310								
1004	P10-GFGS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	19	4	17-Jun-2023	13-Jul-2023	06-Nov-2023 A	06-Feb-2024	-310								
1005	Tx Room / Switch Room		33	33	05-Jul-2023	15-Sep-2023	29-Jan-2024	02-Mar-2024	-351								
1006	BS Works		33	33	05-Jul-2023	15-Sep-2023	29-Jan-2024	02-Mar-2024	-351								
1007	CLP works & Statutory Inspection		33	33	05-Jul-2023	15-Sep-2023	29-Jan-2024	02-Mar-2024	-351								
1008	P10-Tx2040	Handover Inspection with CLP	1	1	05-Jul-2023	05-Jul-2023	29-Jan-2024	29-Jan-2024	-364								
1009	P10-Tx2050	CLP Installation Works	30	30	06-Jul-2023	13-Sep-2023	29-Jan-2024	29-Feb-2024	-364								
1010	P10-Tx2055	Energization of Tx Equipment	1	1	14-Sep-2023	14-Sep-2023	29-Feb-2024	01-Mar-2024	-351								
1011	P10-Tx2060	CLP Meter Installation (Permenant Power On)	1	1	15-Sep-2023	15-Sep-2023	01-Mar-2024	02-Mar-2024	-351								
1012	FS Control Room		200	75	15-May-2023	05-Oct-2023	27-Sep-2023 A	15-Apr-2024	-375								
1013	ABWF		4	4	24-May-2023	27-May-2023	29-Jan-2024	01-Feb-2024	-371								
1014	P10-GFFS1110	Access Panel Installation to FS control Room	4	4	24-May-2023	27-May-2023	29-Jan-2024*	01-Feb-2024	-371								
1015	BS Works		200	75	15-May-2023	05-Oct-2023	27-Sep-2023 A	15-Apr-2024	-375								
1016	MVAC		20	2	15-May-2023	03-Jun-2023	27-Sep-2023 A	01-Feb-2024	-371								
1017	P10-GFFS1160	Air Duct installation	20	2	15-May-2023	03-Jun-2023	27-Sep-2023 A	01-Feb-2024	-371								
1018	EL		27	8	23-May-2023	19-Jun-2023	11-Nov-2023 A	05-Feb-2024	-375								
1019	P10-GFFS1200	Installation of Lighting fitting and small power provision	27	8	23-May-2023	19-Jun-2023	11-Nov-2023 A	05-Feb-2024	-375								
1020	FS		166	67	20-Jun-2023	05-Oct-2023	07-Dec-2023 A	15-Apr-2024	-375								
1021	P10-GFFS1130	FS Piping, cable containment Installation	34	16	20-Jun-2023	26-Jul-2023	07-Dec-2023 A	23-Feb-2024	-375								
1022	P10-GFFS1140	FS Sprinkler head, Alarm smoke detector, heat detector installation	24	4	15-Jul-2023	08-Aug-2023	07-Dec-2023 A	15-Mar-2024	-375								
1023	P10-GFFS1220	T&C of FS Control Equipments	17	17	16-Sep-2023	05-Oct-2023	26-Mar-2024	15-Apr-2024	-375								
1024	Ground Floor Male / Female / U-Toilet		137	50	26-Jun-2023	18-Sep-2023	04-Nov-2023 A	18-Mar-2024	882								
1025	ABWF		80	50	07-Jul-2023	16-Sep-2023	30-Dec-2023 A	18-Mar-2024	-332								
1026	P10-GT1050	Protected screed	3	3	07-Jul-2023	10-Jul-2023	30-Dec-2023 A	31-Jan-2024	-355								
1027	P10-GT1060	Ceiling Grid Installation	6	6	11-Jul-2023	15-Jul-2023	31-Jan-2024*	06-Feb-2024	-355								
1028	P10-GT1070	Wall finishes and furring wall installation	10	10	17-Jul-2023	26-Jul-2023	06-Feb-2024*	19-Feb-2024	-354								
1029	P10-GT1080	Floor finishes with protection	11	11	18-Jul-2023	28-Jul-2023	07-Feb-2024*	21-Feb-2024	-354								
1030	P10-GT1085	Ceiling Board Installation	6	6	29-Jul-2023	03-Aug-2023	21-Feb-2024*	26-Feb-2024	-354								
1031	P10-GT1090	Vanity Counter Installation	6	6	29-Jul-2023	03-Aug-2023	21-Feb-2024*	26-Feb-2024	-329								
1032	P10-GT1100	Door installation	3	3	29-Jul-2023	01-Aug-2023	21-Feb-2024*	23-Feb-2024	-314								
1033	P10-GT1110	Cubical installation	8	8	29-Jul-2023	05-Aug-2023	05-Mar-2024*	12-Mar-2024	-332								
1034	P10-GT1120	Sanitary fitting installation	10	10	31-Jul-2023	09-Aug-2023	22-Feb-2024*	02-Mar-2024	-329								
1035	P10-GT1130	Signage, accessories, air grille installation	6	6	07-Aug-2023	11-Aug-2023	12-Mar-2024*	16-Mar-2024	-332								
1036	P10-GT1140	Inspection & cleaning	1	1	16-Sep-2023	16-Sep-2023	16-Mar-2024	18-Mar-2024	-332								

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TASK filter: DD+4M Lookahead.
ND/2019/02_MPU with Baseline (2.5x)



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#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024																															
										Jan		Feb		Mar		Apr																									
1177	FS		16	5	08-Jul-2023	24-Jul-2023	18-Nov-2023 A	15-Feb-2024	-316	15-Feb-2024, FS																															
1178	P10-GF-ST3-1C	FS Piping, cable containment Installation	7	2	08-Jul-2023	14-Jul-2023	18-Nov-2023 A	08-Feb-2024	-316																																
1179	P10-GF-ST3-1C	FS Sprinkler head, Alarm smoke detector, heat detector installation	9	3	15-Jul-2023	24-Jul-2023	25-Nov-2023 A	15-Feb-2024	-316																																
1180	ST-04		148	55	05-Aug-2023	12-Sep-2023	14-Nov-2023 A	11-Apr-2024	895	11-Apr-2024, ST-04																															
1181	ABWF		137	55	05-Aug-2023	12-Sep-2023	24-Nov-2023 A	11-Apr-2024	895	11-Apr-2024, ABWF																															
1182	P10-GF-ST4-10C	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	9	4	05-Aug-2023	14-Aug-2023	24-Nov-2023 A	19-Feb-2024	-291																																
1183	P10-GF-ST4-10C	Staircase Tiling / Tactile Installation	9	5	18-Aug-2023	26-Aug-2023	23-Dec-2023 A	23-Feb-2024	939																																
1184	P10-GF-ST4-10C	Staircase Door Installation	2	2	11-Sep-2023	12-Sep-2023	09-Apr-2024*	11-Apr-2024	895																																
1185	BS Works		40	6	05-Aug-2023	23-Aug-2023	14-Nov-2023 A	21-Feb-2024	-289	21-Feb-2024, BS Works																															
1186	PD		40	6	05-Aug-2023	23-Aug-2023	14-Nov-2023 A	21-Feb-2024	-289	21-Feb-2024, PD																															
1187	P10-GF-ST4-11	Water piping works Installation	11	6	05-Aug-2023	16-Aug-2023	14-Nov-2023 A	21-Feb-2024	-322																																
1188	P10-GF-ST4-11	Floor Drain Installation	7	3	17-Aug-2023	23-Aug-2023	14-Nov-2023 A	21-Feb-2024	-289																																
1189	FS		37	2	05-Aug-2023	15-Aug-2023	14-Nov-2023 A	21-Feb-2024	-322	21-Feb-2024, FS																															
1190	P10-GF-ST4-1C	FS Piping, cable containment Installation	7	2	05-Aug-2023	11-Aug-2023	14-Nov-2023 A	21-Feb-2024	-322																																
1191	P10-GF-ST4-1C	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	1	12-Aug-2023	15-Aug-2023	14-Nov-2023 A	21-Feb-2024	-322																																
1192	ST-05		134	54	01-Sep-2023	16-Oct-2023	29-Nov-2023 A	13-Apr-2024	895	13-Apr-2024, ST-05																															
1193	ABWF		108	54	19-Sep-2023	16-Oct-2023	23-Dec-2023 A	13-Apr-2024	895	13-Apr-2024, ABWF																															
1194	P10-GF-ST5-10C	Staircase Tiling / Tactile Installation	9	8	19-Sep-2023	27-Sep-2023	28-Dec-2023 A	26-Feb-2024	937																																
1195	P10-GF-ST5-10C	Staircase Wall Painting	7	1	07-Oct-2023	13-Oct-2023	23-Dec-2023 A	27-Feb-2024	937																																
1196	P10-GF-ST5-10C	Staircase Door Installation	2	2	14-Oct-2023	16-Oct-2023	11-Apr-2024	13-Apr-2024	895																																
1197	BS Works		11	5	01-Sep-2023	12-Sep-2023	29-Nov-2023 A	23-Feb-2024	943	23-Feb-2024, BS Works																															
1198	PD		11	3	01-Sep-2023	12-Sep-2023	29-Nov-2023 A	22-Feb-2024	-291	22-Feb-2024, PD																															
1199	P10-GF-ST5-11	Water piping works Installation	11	3	01-Sep-2023	12-Sep-2023	29-Nov-2023 A	22-Feb-2024	-291																																
1200	FS		7	5	01-Sep-2023	11-Sep-2023	29-Nov-2023 A	23-Feb-2024	943	23-Feb-2024, FS																															
1201	P10-GF-ST5-1C	FS Piping, cable containment Installation	7	2	01-Sep-2023	07-Sep-2023	29-Nov-2023 A	21-Feb-2024	943																																
1202	P10-GF-ST5-1C	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	3	08-Sep-2023	11-Sep-2023	30-Nov-2023 A	23-Feb-2024	943																																
1203	External wall and External Area		239	162	06-Jun-2023	24-Feb-2024	22-Nov-2023 A	17-Jul-2024	798																																
1204	ABWF		134	134	06-Jun-2023	13-Nov-2023	05-Feb-2024	20-Jun-2024	826																																
1205	P10-GF-EXT1010	Waterproofing & Window / Louvre Glazing Works	32	32	06-Jun-2023	10-Jul-2023	05-Feb-2024	08-Mar-2024	-360																																
1206	P10-GF-EXT1020	Aluminium Baffle Ceiling Grid Installation	32	32	23-Jun-2023	26-Jul-2023	29-Feb-2024	02-Apr-2024	-371																																
1207	P10-GF-EXT1030	Wooden Fence Installation	45	45	24-Jun-2023	10-Aug-2023	23-Feb-2024	10-Apr-2024	-352																																
1208	P10-GF-EXT1040	External wall Painting and Metal Grilles Installation	39	39	16-Aug-2023	25-Sep-2023	21-Mar-2024	02-May-2024	-352																																
1209	P10-GF-EXT1050	Aluminium Baffle Ceiling Board Installation	39	39	02-Sep-2023	14-Oct-2023	10-Apr-2024	20-May-2024	-352																																
1210	P10-GF-EXT1060	Removal of external wall scaffolding	5	5	16-Oct-2023	19-Oct-2023	20-May-2024	23-May-2024	-352																																
1211	P10-GF-EXT1070	Eco Pavers Laying / Stainless Steel Tactile	23	23	20-Oct-2023	13-Nov-2023	24-May-2024	14-Jun-2024	826																																
1212	P10-GF-EXT1080	Staircase Finishes and door installation	11	11	27-Oct-2023	07-Nov-2023	08-Jun-2024	20-Jun-2024	826																																
1213	BS Works		26	8	27-Jul-2023	30-Aug-2023	22-Nov-2023 A	11-Apr-2024	861	11-Apr-2024, BS Works																															
1214	EL		6	3	03-Aug-2023	08-Aug-2023	30-Nov-2023 A	06-Apr-2024	866	06-Apr-2024, EL																															
1215	P10-GF-EXT1140	Installation of cable containment	6	3	03-Aug-2023	08-Aug-2023	30-Nov-2023 A	06-Apr-2024	866																																
1216	FS		26	8	27-Jul-2023	30-Aug-2023	22-Nov-2023 A	11-Apr-2024	-371	11-Apr-2024, FS																															
1217	P10-GF-EXT1090	FS Piping, cable containment Installation	17	3	27-Jul-2023	12-Aug-2023	22-Nov-2023 A	06-Apr-2024	-371																																
1218	P10-GF-EXT1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	17	8	14-Aug-2023	30-Aug-2023	30-Nov-2023 A	11-Apr-2024	-371																																
1219	Landscape Works		139	139	14-Sep-2023	24-Feb-2024	29-Feb-2024	17-Jul-2024	-352																																
1220	P10-GF-EXT1490	Planters Structural works	23	23	14-Sep-2023	09-Oct-2023	29-Feb-2024	21-Mar-2024	-299																																
1221	P10-GF-EXT1495	Planters RC defect rectification	7	7	10-Oct-2023	16-Oct-2023	21-Mar-2024	28-Mar-2024	-299																																
1222	P10-GF-EXT1500	Planters Waterproofing	20	20	20-Oct-2023	10-Nov-2023	24-May-2024	13-Jun-2024	-352																																
1223	P10-GF-EXT1510	Irrigation Pipes, Sub-soil Drainage installation	12	12	26-Oct-2023	07-Nov-2023	04-Jun-2024	17-Jun-2024	-352																																
1224	P10-GF-EXT1520	Placing Planting Soil	10	10	30-Oct-2023	08-Nov-2023	11-Jun-2024	20-Jun-2024	-352																																
1225	P10-GF-EXT1530	Shurbs Planting works (1,804 nos)	28	28	24-Jan-2024	24-Feb-2024	20-Jun-2024	17-Jul-2024	-352																																
1226	1st Floor		321	226	12-May-2023	14-Mar-2024	28-Oct-2023 A	07-Sep-2024	742																																
1227	Zone 1		194	99	12-May-2023	13-Sep-2023	28-Oct-2023 A	09-May-2024	868																																
1228	Multi Purpose Room 1 & 2		179	84	15-May-2023	29-Aug-2023	28-Oct-2023 A	23-Apr-2024	884	23-Apr-2024																															
1229	ABWF		179	84	15-May-2023	29-Aug-2023	28-Oct-2023 A	23-Apr-2024	884	23-Apr-2024																															
1230	P10-1F-MP1020	Erect Scaffolding for wall and ceiling finishes	2	2	15-May-2023	16-May-2023	28-Oct-2023 A	30-Jan-2024	-373																																
1231	P10-1F-MP1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	17-May-2023	30-May-2023	30-Jan-2024	15-Feb-2024	-373																																
1232	P10-1F-MP1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	14	31-May-2023	13-Jun-2023	15-Feb-2024	28-Feb-2024	-373																																
1233	P10-1F-MP1050	Floor Screeding	2	2	29-Jun-2023	30-Jun-2023	12-Mar-2024	13-Mar-2024	-373																																
1234	P10-1F-MP1060	Timber Flooring	14	14	14-Jun-2023	28-Jun-2023	28-Feb-2024	12-Mar-2024	-373																																
1235	P10-1F-MP1070	Ceiling Grid Installation	7	7	03-Jul-2023	08-Jul-2023	13-Mar-2024	20-Mar-2024	-373																																
1236	P10-1F-MP1080	Plastic Laminate / Glass Partition Wall Installation	7	7	10-Jul-2023	15-Jul-2023	20-Mar-2024	26-Mar-2024	-373																																
1237	P10-1F-MP1170	Ceiling Board Installation	9	9	11-Aug-2023	19-Aug-2023	06-Apr-2024	15-Apr-2024	884																																
1238	P10-1F-MP1180	Movable Partition / Glass Door Installation	9	9	21-Aug-2023	29-Aug-2023	15-Apr-2024	23-Apr-2024	884																																
1239	BS Works		51	50	12-Jun-2023	10-Aug-2023	01-Nov-2023 A	06-Apr-2024	866	06-Apr-2024, BS Works																															
1240	MVAC		20	6	24-Jun-2023	15-Jul-2023	08-Nov-2023 A	26-Mar-2024	-373	26-Mar-2024, MVAC																															
1241	P10-1F-MP1120	Air Duct installation	20	6	24-Jun-2023	15-Jul-2023	08-Nov-2023 A	26-Mar-2024	-373																																
1242	EL		35	26	12-Jun-2023	28-Jul-2023	15-Nov-2023 A	11-Mar-2024	890	11-Mar-2024, EL																															
1243	P10-1F-MP1140	Installation of cable containment	6	2	12-Jun-2023	16-Jun-2023	15-Nov-2023 A	16-Feb-2024	890																																
1244	P10-1F-MP1150	Cable wiring	11	5	17-Jun-2023	29-Jun-2023	17-Nov-2023 A	20-Feb-2024	890																																
1245	P10-1F-MP1160	Installation of Lighting fitting and small power provision	27	22	30-Jun-2023	28-Jul-2023	22-Nov-2023 A	11-Mar-2024	890																																
1246	FS		51	14	24-Jun-2023	10-Aug-2023	01-Nov-2023 A	06-Apr-2024	-366	06-Apr-2024, FS																															
										Date		Revision		Checked		Approved																									
										29-Jan-2024		0		RP		EW																									
<div><div><div>Project Baseline Bar</div><div>Primary Baseline</div><div>Actual Work</div><div>Remaining Work</div><div>Critical Remaining Work</div></div><div><div>Baseline Milestone</div><div>Critical Milestone</div><div>Non-Critical Milestone</div><div>Summary</div></div></div>										Data Date: 29-Jan-2024 Project Start: 03-Feb-2020 Project End: 08-Sep-2026 Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)										4 MONTH ROLLING PROGRAMME (Jan - Apr 2024)						<table><tr><td>Date</td><td>Revision</td><td>Checked</td><td>Approved</td></tr><tr><td>29-Jan-2024</td><td>0</td><td>RP</td><td>EW</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				Date	Revision	Checked	Approved	29-Jan-2024	0	RP	EW				
Date	Revision	Checked	Approved																																						
29-Jan-2024	0	RP	EW																																						
										Page No. 18 of 25 TASK filter: DD+4M Lookahead. ND/2019/02_MPU with Baseline (2.5)																															

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#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024																													
										Jan			Feb			Mar			Apr																				
1247	P10-1F-MP1090	FS Piping, cable containment Installation	23	2	24-Jun-2023	18-Jul-2023	01-Nov-2023 A	22-Mar-2024	-366																														
1248	P10-1F-MP1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	23	11	19-Jul-2023	10-Aug-2023	28-Nov-2023 A	06-Apr-2024	-366																														
1249	Storage Room		194	99	12-May-2023	13-Sep-2023	28-Oct-2023 A	09-May-2024	868																														
1250	P10-1F-SR0900	Access Date of 1/FSStorage Room Fitting Out	0	0	12-May-2023		29-Jan-2024		-214																														
1251	ABWF		194	99	12-May-2023	13-Sep-2023	28-Oct-2023 A	09-May-2024	868																														
1252	P10-1F-SR1000	Setting Out	2	2	12-May-2023	13-May-2023	28-Oct-2023 A	30-Jan-2024	-382																														
1253	P10-1F-SR1010	Erect Scaffolding for wall and ceiling finishes	2	2	15-May-2023	16-May-2023	30-Jan-2024	01-Feb-2024	-382																														
1254	P10-1F-SR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	17-May-2023	30-May-2023	01-Feb-2024	17-Feb-2024	-382																														
1255	P10-1F-SR1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	14	31-May-2023	13-Jun-2023	17-Feb-2024	01-Mar-2024	-382																														
1256	P10-1F-SR1040	Floor Screeding	2	2	29-Jun-2023	30-Jun-2023	13-Mar-2024	15-Mar-2024	-382																														
1257	P10-1F-SR1050	Timber Flooring	14	14	14-Jun-2023	28-Jun-2023	01-Mar-2024	13-Mar-2024	-382																														
1258	P10-1F-SR1060	Ceiling Grid Installation	7	7	03-Jul-2023	08-Jul-2023	15-Mar-2024	22-Mar-2024	-382																														
1259	P10-1F-SR1070	Plastic Laminate Installation	7	7	10-Jul-2023	15-Jul-2023	22-Mar-2024	28-Mar-2024	-382																														
1260	P10-1F-SR1160	Ceiling Board Installation	9	9	26-Aug-2023	04-Sep-2023	20-Apr-2024	30-Apr-2024	868																														
1261	P10-1F-SR1170	Movable Partition / Glass Door Installation	9	9	05-Sep-2023	13-Sep-2023	30-Apr-2024	09-May-2024	868																														
1262	BS Works		55	36	04-Jul-2023	25-Aug-2023	03-Nov-2023 A	20-Apr-2024	850																														
1263	MVAC		20	4	04-Jul-2023	24-Jul-2023	03-Nov-2023 A	28-Mar-2024	-382	28-Mar-2024, MVAC																													
1264	P10-1F-SR1110	Air Duct installation	20	4	04-Jul-2023	24-Jul-2023	03-Nov-2023 A	28-Mar-2024	-382																														
1265	EL		48	13	12-Jul-2023	25-Aug-2023	10-Nov-2023 A	26-Mar-2024	874	26-Mar-2024, EL																													
1266	P10-1F-SR1130	Installation of cable containment	6	2	12-Jul-2023	17-Jul-2023	10-Nov-2023 A	15-Mar-2024	874																														
1267	P10-1F-SR1140	Cable wiring	11	6	18-Jul-2023	28-Jul-2023	23-Nov-2023 A	21-Mar-2024	874																														
1268	P10-1F-SR1150	Installation of Lighting fitting and small power provision	27	11	29-Jul-2023	25-Aug-2023	29-Nov-2023 A	26-Mar-2024	874																														
1269	FS		40	25	04-Jul-2023	18-Aug-2023	03-Nov-2023 A	20-Apr-2024	-382	20-Apr-2024, FS																													
1270	P10-1F-SR1080	FS Piping, cable containment Installation	23	11	04-Jul-2023	26-Jul-2023	03-Nov-2023 A	09-Apr-2024	-382																														
1271	P10-1F-SR1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	23	14	27-Jul-2023	18-Aug-2023	20-Nov-2023 A	20-Apr-2024	-382																														
1272	Zone 2		193	98	17-May-2023	20-Sep-2023	28-Oct-2023 A	07-May-2024	870																														
1273	Workshop		188	93	17-May-2023	18-Sep-2023	28-Oct-2023 A	03-May-2024	875																														
1274	ABWF		188	93	17-May-2023	18-Sep-2023	28-Oct-2023 A	03-May-2024	875																														
1275	P10-1F-WS1010	Setting Out	2	1	17-May-2023	18-May-2023	28-Oct-2023 A	29-Jan-2024	-360																														
1276	P10-1F-WS1020	Erect Scaffolding for wall and ceiling finishes	2	1	19-May-2023	20-May-2023	30-Oct-2023 A	30-Jan-2024	-360																														
1277	P10-1F-WS1030	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	22-May-2023	03-Jun-2023	30-Jan-2024	15-Feb-2024	-360																														
1278	P10-1F-WS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	14	05-Jun-2023	17-Jun-2023	15-Feb-2024	28-Feb-2024	-360																														
1279	P10-1F-WS1050	Floor Screeding	2	2	19-Jun-2023	20-Jun-2023	28-Feb-2024	01-Mar-2024	-360																														
1280	P10-1F-WS1070	Ceiling Grid Installation	7	7	21-Jun-2023	28-Jun-2023	01-Mar-2024	07-Mar-2024	-360																														
1281	P10-1F-WS1080	Plastic Laminate Installation	7	7	29-Jun-2023	06-Jul-2023	07-Mar-2024	13-Mar-2024	-360																														
1282	P10-1F-WS1170	Ceiling Board Installation	9	9	17-Aug-2023	25-Aug-2023	13-Mar-2024	22-Mar-2024	891																														
1283	P10-1F-WS1175	Raised Floor Installation	14	14	26-Aug-2023	08-Sep-2023	22-Mar-2024	08-Apr-2024	891																														
1284	P10-1F-WS1180	Cabinet Installation	9	9	09-Sep-2023	18-Sep-2023	24-Apr-2024	03-May-2024	875																														
1285	BS Works		44	46	23-Jun-2023	16-Aug-2023	11-Nov-2023 A	14-Mar-2024	886	14-Mar-2024, BS Works																													
1286	MVAC		20	8	23-Jun-2023	14-Jul-2023	21-Nov-2023 A	13-Mar-2024	-360	13-Mar-2024, MVAC																													
1287	P10-1F-WS1120	Air Duct installation	20	8	23-Jun-2023	14-Jul-2023	21-Nov-2023 A	13-Mar-2024	-360																														
1288	EL		44	27	03-Jul-2023	16-Aug-2023	11-Nov-2023 A	26-Feb-2024	904	26-Feb-2024, EL																													
1289	P10-1F-WS1140	Installation of cable containment	6	1	03-Jul-2023	07-Jul-2023	11-Nov-2023 A	29-Jan-2024	904																														
1290	P10-1F-WS1150	Cable wiring	11	5	08-Jul-2023	19-Jul-2023	15-Nov-2023 A	02-Feb-2024	904																														
1291	P10-1F-WS1160	Installation of Lighting fitting and small power provision	27	22	20-Jul-2023	16-Aug-2023	25-Nov-2023 A	26-Feb-2024	904																														
1292	FS		23	9	23-Jun-2023	09-Aug-2023	21-Nov-2023 A	14-Mar-2024	-344	14-Mar-2024, FS																													
1293	P10-1F-WS1090	FS Piping, cable containment Installation	23	9	23-Jun-2023	17-Jul-2023	21-Nov-2023 A	14-Mar-2024	-344																														
1294	P10-1F-WS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	23	7	18-Jul-2023	09-Aug-2023	21-Nov-2023 A	12-Mar-2024	-344																														
1295	Pantry		67	34	17-May-2023	19-Jul-2023	27-Dec-2023 A	04-Mar-2024	-349	04-Mar-2024, Pantry																													
1296	P10-PTRY-1010	Site Survey and setting out	2	2	17-May-2023	18-May-2023	29-Jan-2024	30-Jan-2024	-349																														
1297	P10-PTRY-1060	Ceiling finishes	7	6	14-Jun-2023	20-Jun-2023	27-Dec-2023 A	05-Feb-2024	-349																														
1298	P10-PTRY-1070	Floor finishes	11	11	21-Jun-2023	04-Jul-2023	05-Feb-2024	19-Feb-2024	-349																														
1299	P10-PTRY-1080	Wall finishes	11	11	23-Jun-2023	05-Jul-2023	06-Feb-2024	20-Feb-2024	-349																														
1300	P10-PTRY-1090	Cabinet installation	3	3	06-Jul-2023	08-Jul-2023	20-Feb-2024	23-Feb-2024	-347																														
1301	P10-PTRY-1100	Door installation	3	3	06-Jul-2023	08-Jul-2023	20-Feb-2024	23-Feb-2024	-347																														
1302	P10-PTRY-1110	Vanity Counter Installation	7	7	06-Jul-2023	12-Jul-2023	20-Feb-2024	26-Feb-2024	-349																														
1303	P10-PTRY-1120	Sanitary fitting installation	11	11	07-Jul-2023	18-Jul-2023	21-Feb-2024	02-Mar-2024	-349																														
1304	P10-PTRY-1130	Signage, false ceiling panels, Lighting and air grille installation	7	7	10-Jul-2023	15-Jul-2023	23-Feb-2024	29-Feb-2024	-347																														
1305	P10-PTRY-1140	Inspection, T&C, cleaning	1	1	19-Jul-2023	19-Jul-2023	02-Mar-2024	04-Mar-2024	-349																														
1306	Female Toilets / Disabled Toilet / Male Toilet / Baby Care Room		186	98	30-May-2023	20-Sep-2023	03-Nov-2023 A	07-May-2024	834																														
1307	ABWF		186	98	10-Jun-2023	16-Sep-2023	21-Nov-2023 A	07-May-2024	-380																														
1308	P10-1T1050	Protected screed	3	2	10-Jun-2023	13-Jun-2023	21-Nov-2023 A	30-Jan-2024	-352																														
1309	P10-1T1060	Ceiling Grid Installation	6	6	14-Jul-2023	19-Jul-2023	30-Jan-2024	05-Feb-2024	-352																														
1310	P10-1T1070	Floor finishes	11	11	20-Jul-2023	31-Jul-2023	05-Feb-2024	19-Feb-2024	-352																														
1311	P10-1T1075	Ceiling Grid Installation	6	6	01-Aug-2023	05-Aug-2023	19-Feb-2024	23-Feb-2024	-314																														
1312	P10-1T1080	Wall finishes	11	11	21-Jul-2023	01-Aug-2023	06-Feb-2024	19-Feb-2024	-352																														
1313	P10-1T1090	Vanity Counter Installation	7	7	22-Aug-2023	28-Aug-2023	24-Apr-2024	30-Apr-2024	-380																														
1314	P10-1T1100	Door installation	3	3	02-Aug-2023	04-Aug-2023	20-Feb-2024	22-Feb-2024	-349																														
1315	P10-1T1110	Cubical installation	7	7	02-Aug-2023	08-Aug-2023	05-Mar-2024	11-Mar-2024	-367																														
1316	P10-1T1120	Sanitaryfitting installation	11	11	23-Aug-2023	02-Sep-2023	25-Apr-2024	07-May-2024	-380																														
										<div><div></div><div></div></div> <div>Project Baseline Bar</div>				<div><div></div><div></div></div> <div>Primary Baseline</div>				<div><div></div><div></div></div> <div>Actual Work</div>				<div><div></div><div></div></div> <div>Remaining Work</div>				<div><div></div><div></div></div> <div>Critical Remaining Work</div>													
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Data Date: 29-Jan-2024										4 MONTH ROLLING PROGRAMME										<div><div></div><div></div></div> <div>Date</div>				<div><div></div><div></div></div> <div>Revision</div>				<div><div></div><div></div></div> <div>Checked</div>				<div><div></div><div></div></div> <div>Approved</div>				Page No. 19 of 25			
Project Start: 03-Feb-2020										(Jan - Apr 2024)										29-Jan-2024				0				RP				EW				TASK filter: DD+4M Lookahead.			
Project End: 08-Sep-2026																																				ND/2019/02_MPU with Baseline (2.5)			
Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)																																							

<div><div></div><div>俊和 – 群利聯營體 CW – KL JV</div></div>		ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui								<div><div></div><div></div></div>		<div><div></div><div>土木工程拓展署 Civil Engineering and Development Department</div></div>		Monthly Programme Update (Jan 2024)			
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024							
										Jan	Feb	Mar	Apr				
1317	P10-1T1130	Signage, false ceiling panels, Lighting and air grille installation	5	5	09-Aug-2023	12-Aug-2023	11-Mar-2024	14-Mar-2024	-367								
1318	P10-1T1140	Inspection & cleaning	1	1	16-Sep-2023	16-Sep-2023	07-May-2024	07-May-2024	-380								
1319	BS Works		141	52	30-May-2023	20-Sep-2023	03-Nov-2023 A	20-Mar-2024	879				20-Mar-2024, BS Works				
1320	MVAC		138	52	30-May-2023	18-Sep-2023	06-Nov-2023 A	20-Mar-2024	-367				20-Mar-2024, MVAC				
1321	P10-1T1180	MEP Conduit embedment	7	2	30-May-2023	05-Jun-2023	06-Nov-2023 A	30-Jan-2024	-341								
1322	P10-1T1190	Air Duct installation	20	8	20-Jul-2023	09-Aug-2023	10-Nov-2023 A	07-Feb-2024	-341								
1323	P10-1T1310	MVAC unit, Exhaust fans installation	20	8	09-Aug-2023	29-Aug-2023	10-Nov-2023 A	18-Mar-2024	-367								
1324	P10-1T1320	T&C of MVAC system	2	2	16-Sep-2023	18-Sep-2023	18-Mar-2024	20-Mar-2024	-367								
1325	FS		129	52	20-Jul-2023	20-Sep-2023	14-Nov-2023 A	20-Mar-2024	-352				20-Mar-2024, FS				
1326	P10-1T1170	FS Sprinkler pipe overhead with ceiling installation	11	6	20-Jul-2023	31-Jul-2023	14-Nov-2023 A	02-Feb-2024	-316								
1327	P10-1T1290	FS Sprinkler head, Alarm smoke detector, heat detector installation	11	6	09-Aug-2023	19-Aug-2023	22-Nov-2023 A	15-Mar-2024	-352								
1328	P10-1T1300	T&C of FS system	5	5	16-Sep-2023	20-Sep-2023	15-Mar-2024	20-Mar-2024	-352								
1329	PD		141	52	20-Jul-2023	18-Sep-2023	03-Nov-2023 A	20-Mar-2024	-334				20-Mar-2024, PD				
1330	P10-1T1240	Setting out for pipeworks / San fit, & Installation of pipework at ceiling level	11	7	20-Jul-2023	31-Jul-2023	03-Nov-2023 A	03-Feb-2024	-306								
1331	P10-1T1250	Installation of pipework connection to drainage	11	7	01-Aug-2023	11-Aug-2023	11-Nov-2023 A	09-Feb-2024	-306								
1332	P10-1T1260	Installation of pipework connection to sanitary fitting	11	8	12-Aug-2023	23-Aug-2023	20-Nov-2023 A	18-Mar-2024	-334								
1333	P10-1T1270	T&C of PD system	2	2	16-Sep-2023	18-Sep-2023	18-Mar-2024	20-Mar-2024	-334								
1334	EL		137	51	20-Jul-2023	18-Sep-2023	06-Nov-2023 A	19-Mar-2024	881				19-Mar-2024, EL				
1335	P10-1T1210	Installation of cable containment	9	4	20-Jul-2023	28-Jul-2023	06-Nov-2023 A	31-Jan-2024	914								
1336	P10-1T1220	Cable wiring	14	5	29-Jul-2023	11-Aug-2023	18-Nov-2023 A	06-Feb-2024	914								
1337	P10-1T1230	Installation of Lighting fitting and small power provision	11	7	12-Aug-2023	23-Aug-2023	28-Nov-2023 A	16-Mar-2024	881								
1338	P10-1T1280	T&C of Electrical System	2	2	16-Sep-2023	18-Sep-2023	16-Mar-2024	19-Mar-2024	881								
1339	Senior Forestry Officer Office		175	81	19-May-2023	18-Sep-2023	30-Oct-2023 A	20-Apr-2024	887				20-Apr-2024, Senior				
1340	ABWF		175	81	19-May-2023	18-Sep-2023	30-Oct-2023 A	20-Apr-2024	887				20-Apr-2024, ABWF				
1341	P10-1F-SFO1010	Erect Scaffolding for wall and ceiling finishes	2	2	19-May-2023	20-May-2023	30-Oct-2023 A	30-Jan-2024	-359								
1342	P10-1F-SFO1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	22-May-2023	03-Jun-2023	30-Jan-2024	15-Feb-2024	-359								
1343	P10-1F-SFO1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	14	05-Jun-2023	17-Jun-2023	15-Feb-2024	27-Feb-2024	-359								
1344	P10-1F-SFO1040	Floor Screeding	2	2	19-Jun-2023	20-Jun-2023	27-Feb-2024	29-Feb-2024	-359								
1345	P10-1F-SFO1060	Ceiling Grid Installation	7	7	21-Jun-2023	28-Jun-2023	29-Feb-2024	07-Mar-2024	-359								
1346	P10-1F-SFO1070	Plastic Laminate Installation	7	7	29-Jun-2023	06-Jul-2023	07-Mar-2024	13-Mar-2024	-359								
1347	P10-1F-SFO1160	Ceiling Board Installation	9	9	17-Aug-2023	25-Aug-2023	18-Mar-2024	26-Mar-2024	887								
1348	P10-1F-SFO1165	Raised Floor Installation	14	14	26-Aug-2023	08-Sep-2023	26-Mar-2024	12-Apr-2024	887								
1349	P10-1F-SFO1170	Loose Furniture Installation	9	9	09-Sep-2023	18-Sep-2023	12-Apr-2024	20-Apr-2024	887								
1350	BS Works		58	49	23-Jun-2023	16-Aug-2023	10-Nov-2023 A	18-Mar-2024	882				18-Mar-2024, BS Works				
1351	MVAC		20	4	23-Jun-2023	14-Jul-2023	20-Nov-2023 A	13-Mar-2024	-359				13-Mar-2024, MVAC				
1352	P10-1F-SFO1110	Air Duct installation	20	4	23-Jun-2023	14-Jul-2023	20-Nov-2023 A	13-Mar-2024	-359								
1353	EL		58	19	03-Jul-2023	16-Aug-2023	10-Nov-2023 A	19-Feb-2024	912				19-Feb-2024, EL				
1354	P10-1F-SFO1130	Installation of cable containment	6	3	03-Jul-2023	07-Jul-2023	10-Nov-2023 A	31-Jan-2024	912								
1355	P10-1F-SFO1140	Cable wiring	11	7	08-Jul-2023	19-Jul-2023	15-Nov-2023 A	07-Feb-2024	912								
1356	P10-1F-SFO1150	Installation of Lighting fitting and small power provision	27	9	20-Jul-2023	16-Aug-2023	09-Dec-2023 A	19-Feb-2024	912								
1357	FS		23	9	18-Jul-2023	09-Aug-2023	20-Nov-2023 A	18-Mar-2024	-350				18-Mar-2024, FS				
1358	P10-1F-SFO1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	23	9	18-Jul-2023	09-Aug-2023	20-Nov-2023 A	18-Mar-2024	-350								
1359	Server Room		175	81	19-May-2023	18-Sep-2023	30-Oct-2023 A	20-Apr-2024	887				20-Apr-2024, Server				
1360	ABWF		175	81	19-May-2023	18-Sep-2023	30-Oct-2023 A	20-Apr-2024	887				20-Apr-2024, ABWF				
1361	P10-1F-SER1010	Erect Scaffolding for wall and ceiling finishes	2	2	19-May-2023	20-May-2023	30-Oct-2023 A	30-Jan-2024	-359								
1362	P10-1F-SER1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	14	22-May-2023	03-Jun-2023	30-Jan-2024	15-Feb-2024	-359								
1363	P10-1F-SER1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	14	05-Jun-2023	17-Jun-2023	15-Feb-2024	27-Feb-2024	-359								
1364	P10-1F-SER1040	Floor Screeding	2	2	19-Jun-2023	20-Jun-2023	27-Feb-2024	29-Feb-2024	-359								
1365	P10-1F-SER1060	Ceiling Grid Installation	7	7	21-Jun-2023	28-Jun-2023	29-Feb-2024	07-Mar-2024	-359								
1366	P10-1F-SER1070	Plastic Laminate Installation	7	7	29-Jun-2023	06-Jul-2023	07-Mar-2024	13-Mar-2024	-359								
1367	P10-1F-SER1160	Ceiling Board Installation	9	9	17-Aug-2023	25-Aug-2023	18-Mar-2024	26-Mar-2024	887								
1368	P10-1F-SER1165	Floor Carpet Installation	14	14	26-Aug-2023	08-Sep-2023	26-Mar-2024	12-Apr-2024	887								
1369	P10-1F-SER1170	Loose Furniture Installation	9	9	09-Sep-2023	18-Sep-2023	12-Apr-2024	20-Apr-2024	887								
1370	BS Works		46	50	23-Jun-2023	16-Aug-2023	22-Nov-2023 A	18-Mar-2024	882				18-Mar-2024, BS Works				
1371	MVAC		20	6	23-Jun-2023	14-Jul-2023	22-Nov-2023 A	13-Mar-2024	-359				13-Mar-2024, MVAC				
1372	P10-1F-SER1110	Air Duct installation	20	6	23-Jun-2023	14-Jul-2023	22-Nov-2023 A	13-Mar-2024	-359								
1373	EL		38	16	03-Jul-2023	16-Aug-2023	29-Nov-2023 A	15-Feb-2024	916				15-Feb-2024, EL				
1374	P10-1F-SER1130	Installation of cable containment	6	3	03-Jul-2023	07-Jul-2023	29-Nov-2023 A	31-Jan-2024	916								
1375	P10-1F-SER1140	Cable wiring	11	7	08-Jul-2023	19-Jul-2023	29-Nov-2023 A	03-Feb-2024	916								
1376	P10-1F-SER1150	Installation of Lighting fitting and small power provision	27	9	20-Jul-2023	16-Aug-2023	09-Dec-2023 A	15-Feb-2024	916								
1377	FS		23	11	23-Jun-2023	09-Aug-2023	22-Nov-2023 A	18-Mar-2024	-350				18-Mar-2024, FS				
1378	P10-1F-SER1080	FS Piping, cable containment Installation	23	9	23-Jun-2023	17-Jul-2023	22-Nov-2023 A	15-Mar-2024	-350								
1379	P10-1F-SER1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	23	11	18-Jul-2023	09-Aug-2023	22-Nov-2023 A	18-Mar-2024	-350								
1380	BOH		120	38	08-Jul-2023	16-Aug-2023	18-Nov-2023 A	16-Mar-2024	919				16-Mar-2024, BOH				
1381																	

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TASK filter: DD+4M Lookahead.
ND/2019/02_MPU with Baseline (2.5)

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TASK filter: DD+4M Lookahead.
ND/2019/02_MPU with Baseline (2.5)

Project Baseline Bar

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Baseline Milestone

Critical Milestone

Non-Critical Milestone

Summary

Data Date: 29-Jan-2024

Project Start: 03-Feb-2020

Project End: 08-Sep-2026

Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)

4 MONTH ROLLING PROGRAMME

(Jan - Apr 2024)

Date	Revision	Checked	Approved
29-Jan-2024	0	RP	EW

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TASK filter: DD+4M Lookahead.

ND/2019/02_MPU with Baseline (2.5)

<div><div></div><div>俊和 - 群利聯營體 CW - KL JV</div></div>			ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui							<div><div></div><div>AECOM</div></div>		<div><div></div><div>土木工程拓展署 Civil Engineering and Development Department</div></div>		Monthly Programme Update (Jan 2024)			
#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024							
										Jan		Feb		Mar		Apr	
1595	P11-OF0900	Sheet Pile Installation at Outfall	11	11	05-Jul-2023	15-Jul-2023	27-Apr-2024	09-May-2024	-113								
1596	P11-OF1000	Excavation to 1st strut level	3	3	17-Jul-2023	19-Jul-2023	09-May-2024	13-May-2024	-113								
1597	P11-OF1010	Installation 1st level strut and testing	6	6	20-Jul-2023	25-Jul-2023	13-May-2024	18-May-2024	-113								
1598	P11-OF1020	Excavation to 2nd strut level	5	5	26-Jul-2023	29-Jul-2023	18-May-2024	23-May-2024	-113								
1599	P11-OF1030	Installation 2nd level strut and testing	6	6	03-Aug-2023	08-Aug-2023	27-May-2024	31-May-2024	-113								
1600	P11-OF1040	Excavation to Formation Level	2	2	09-Aug-2023	10-Aug-2023	31-May-2024	03-Jun-2024	-113								
1601	P11-OF1050	Backfilling and Blinding works to outfall	1	1	11-Aug-2023	11-Aug-2023	03-Jun-2024	04-Jun-2024	-113								
1602	P11-OF1060	Allow 7 days for concrete strength development	8	8	12-Aug-2023	19-Aug-2023	04-Jun-2024	12-Jun-2024	-113								
1603	P11-OF1070	Dismantle Strut	1	1	21-Aug-2023	21-Aug-2023	12-Jun-2024	13-Jun-2024	-113								
1604	P11-OF1080	Outfall Baseslab (Incl concreting)	3	3	22-Aug-2023	24-Aug-2023	13-Jun-2024	17-Jun-2024	-113								
1605	P11-OF1090	Dismantle Base slab Formwork	2	2	25-Aug-2023	26-Aug-2023	17-Jun-2024	19-Jun-2024	-113								
1606	P11-OF1100	Outfall Wall (Incl concreting)	6	6	28-Aug-2023	01-Sep-2023	19-Jun-2024	24-Jun-2024	-113								
1607	P11-OF1110	Dismantle 1st pour Wall Formwork	3	3	02-Sep-2023	05-Sep-2023	24-Jun-2024	27-Jun-2024	-113								
1608	P11-OF1120	Outfall Wall 2nd pour (Incl concreting)	5	5	06-Sep-2023	09-Sep-2023	27-Jun-2024	02-Jul-2024	-113								
1609	P11-OF1130	Dismantle 2nd pour Wall Formwork	3	3	11-Sep-2023	13-Sep-2023	02-Jul-2024	05-Jul-2024	-113								
1610	P11-OF1140	Partilay Reintatement (Rockfill)	2	2	14-Sep-2023	15-Sep-2023	05-Jul-2024	08-Jul-2024	-113								
1611	P11-OF1150	Dismantle 1st Layer of Strut	2	2	16-Sep-2023	18-Sep-2023	08-Jul-2024	10-Jul-2024	-113								
1612	P11-OF1160	Remove Riverside sheet pile	2	2	19-Sep-2023	20-Sep-2023	10-Jul-2024	11-Jul-2024	-113								
1613	P11-OF1170	Casting of outfall (River Side)	2	2	21-Sep-2023	22-Sep-2023	12-Jul-2024	13-Jul-2024	-113								
1614	P11-OF1200	Remove remining side sheet pile & rock fill	6	6	23-Sep-2023	28-Sep-2023	13-Jul-2024	19-Jul-2024	-113								
1615	Outfall 5104		83	83	29-Sep-2023	28-Dec-2023	19-Jul-2024	07-Oct-2024	-113								
1616	P11-OF1220	Sheet Pile Installation at Outfall	11	11	29-Sep-2023	12-Oct-2023	19-Jul-2024	30-Jul-2024	-113								
1617	P11-OF1230	Excavation to 1st strut level	3	3	13-Oct-2023	16-Oct-2023	30-Jul-2024	01-Aug-2024	-113								
1618	P11-OF1240	Installation 1st level strut and testing	6	6	17-Oct-2023	21-Oct-2023	02-Aug-2024	07-Aug-2024	-113								
1619	P11-OF1250	Excavation to 2nd strut level	5	5	24-Oct-2023	27-Oct-2023	07-Aug-2024	12-Aug-2024	-113								
1620	P11-OF1260	Installation 2nd level strut and testing	6	6	01-Nov-2023	06-Nov-2023	14-Aug-2024	20-Aug-2024	-113								
1621	P11-OF1270	Excavation to Formation Level	2	2	07-Nov-2023	08-Nov-2023	20-Aug-2024	22-Aug-2024	-113								
1622	P11-OF1280	Backfilling and Blinding works to outfall	1	1	09-Nov-2023	09-Nov-2023	22-Aug-2024	22-Aug-2024	-113								
1623	P11-OF1290	Allow 7 days for concrete strength development	8	8	10-Nov-2023	17-Nov-2023	23-Aug-2024	30-Aug-2024	-113								
1624	P11-OF1300	Dismantle Strut	1	1	18-Nov-2023	18-Nov-2023	30-Aug-2024	31-Aug-2024	-113								
1625	P11-OF1310	Outfall Baseslab (Incl concreting)	3	3	20-Nov-2023	22-Nov-2023	31-Aug-2024	03-Sep-2024	-113								
1626	P11-OF1320	Dismantle Base slab Formwork	2	2	23-Nov-2023	24-Nov-2023	03-Sep-2024	05-Sep-2024	-113								
1627	P11-OF1330	Outfall Wall (Incl concreting)	6	6	25-Nov-2023	30-Nov-2023	05-Sep-2024	11-Sep-2024	-113								
1628	P11-OF1340	Dismantle 1st pour Wall Formwork	3	3	01-Dec-2023	04-Dec-2023	11-Sep-2024	13-Sep-2024	-113								
1629	P11-OF1350	Outfall Wall 2nd pour (Incl concreting)	5	5	05-Dec-2023	08-Dec-2023	13-Sep-2024	19-Sep-2024	-113								
1630	P11-OF1360	Dismantle 2nd pour Wall Formwork	3	3	09-Dec-2023	12-Dec-2023	19-Sep-2024	23-Sep-2024	-113								
1631	P11-OF1370	Partilay Reintatement (Rockfill)	2	2	13-Dec-2023	14-Dec-2023	23-Sep-2024	24-Sep-2024	-113								
1632	P11-OF1380	Dismantle 1st Layer of Strut	2	2	15-Dec-2023	16-Dec-2023	25-Sep-2024	26-Sep-2024	-113								
1633	P11-OF1390	Remove Riverside sheet pile	2	2	18-Dec-2023	19-Dec-2023	26-Sep-2024	28-Sep-2024	-113								
1634	P11-OF1400	Casting of outfall (River Side)	2	2	20-Dec-2023	21-Dec-2023	28-Sep-2024	02-Oct-2024	-113								
1635	P11-OF1410	Remove remining side sheet pile & rock fill	6	6	22-Dec-2023	28-Dec-2023	02-Oct-2024	07-Oct-2024	-113								
1636	P11-OF1420	Report Completion of Drainage works	0	0		28-Dec-2023		07-Oct-2024	-113								
1637	Fresh Water Pipeworks (Level: (IL +6mPD to +7.0mPD)		136	136	02-Aug-2023	23-Dec-2023	25-May-2024	04-Oct-2024	-121								
1638	P11-1050	Fresh water pipe works (100m)	28	28	02-Aug-2023	30-Aug-2023	25-May-2024	21-Jun-2024	-121								
1639	P11-1160	Connection to existling fresh water main at both ends	17	17	31-Aug-2023	16-Sep-2023	21-Jun-2024	09-Jul-2024	-121								
1640	P11-WSD1030	Submit Form WWO046 Part 4 For WSD Inspection	1	1	18-Sep-2023	18-Sep-2023	09-Jul-2024	10-Jul-2024	-121								
1641	P11-WSD1040	WSD Inspection	8	8	03-Nov-2023	10-Nov-2023	16-Aug-2024	23-Aug-2024	-121								
1642	P11-WSD1050	Issue Water Certificate (Part 5)	1	1	23-Dec-2023	23-Dec-2023	03-Oct-2024	04-Oct-2024	-121								
1643	Salt Water Pipeworks		119	119	31-Aug-2023	06-Jan-2024	21-Jun-2024	16-Oct-2024	-121								
1644	P11-1070	Salt water pipe works (20m)	11	11	31-Aug-2023	11-Sep-2023	21-Jun-2024	03-Jul-2024	-121								
1645	P11-1170	Connection to existling fresh water main	6	6	12-Sep-2023	16-Sep-2023	03-Jul-2024	09-Jul-2024	-121								
1646	P11-1182	Submit Form WWO046 Part 4 For WSD Inspection	1	1	18-Sep-2023	18-Sep-2023	09-Jul-2024	10-Jul-2024	-121								
1647	P11-1184	WSD Inspection	8	8	03-Nov-2023	10-Nov-2023	16-Aug-2024	23-Aug-2024	-121								
1648	P11-1186	Issue Water Certificate (Part 5)	1	1	23-Dec-2023	23-Dec-2023	03-Oct-2024	04-Oct-2024	-121								
1649	P11-1200	Backfill to Level +7.0mPD for Surface Channel and Utilities works	11	11	26-Dec-2023	06-Jan-2024	04-Oct-2024	16-Oct-2024	-121								
1650	Utilities Works		45	45	08-Jan-2024	26-Feb-2024	16-Oct-2024	27-Nov-2024	-121								
1651	P11-1180	Twins 11KV Cables Connection	17	17	08-Jan-2024	24-Jan-2024	16-Oct-2024	31-Oct-2024	-121								
1652	P11-1190	Surface U Channel Construction (4 nos.)	34	34	08-Jan-2024	14-Feb-2024	16-Oct-2024	16-Nov-2024	-121								
1653	P11-1250	Backfill to Level Final Formation Level	11	11	15-Feb-2024	26-Feb-2024	16-Nov-2024	27-Nov-2024	-121								
1654	Road A6 Works (Total 100m @ 10m/Bay)		169	169	08-Jan-2024	08-Jul-2024	16-Oct-2024	29-Mar-2025	98								
1655	1st Cycle (4 Bays)		56	56	08-Jan-2024	08-Mar-2024	16-Oct-2024	07-Dec-2024	98								
1656	P11-1060	Formation of Sub-Grade	8	8	08-Jan-2024	15-Jan-2024	16-Oct-2024	23-Oct-2024	-84								
1657	P11-1210	Laying of Sub-Base	7	7	16-Jan-2024	22-Jan-2024	23-Oct-2024	29-Oct-2024	98								
1658	P11-1220	Laying of Road-Base	7	7	23-Jan-2024	29-Jan-2024	29-Oct-2024	05-Nov-2024	98								
1659	P11-1230	Laying of Base Course	6	6	30-Jan-2024	03-Feb-2024	05-Nov-2024	09-Nov-2024	98								
1660	P11-1240	Laying of Wearing Course	6	6	05-Feb-2024	09-Feb-2024	09-Nov-2024	15-Nov-2024	98								
1661	P11-1260	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	17	14-Feb-2024	01-Mar-2024	15-Nov-2024	30-Nov-2024	98								
1662	P11-1270	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	7	02-Mar-2024	08-Mar-2024	30-Nov-2024	07-Dec-2024	98								
1663	2nd Cycle (4 Bays)		56	56	09-Mar-2024	08-May-2024	07-Dec-2024	05-Feb-2025	98								
1664	P11-1280	Formation of Sub-Grade	8	8	09-Mar-2024	16-Mar-2024	07-Dec-2024	14-Dec-2024	98								

Project Baseline Bar

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Baseline Milestone

Critical Milestone

Non-Critical Milestone

Summary

Data Date: 29-Jan-2024

Project Start: 03-Feb-2020

Project End: 08-Sep-2026

Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)

4 MONTH ROLLING PROGRAMME

(Jan - Apr 2024)

Date	Revision	Checked	Approved
29-Jan-2024	0	RP	EW

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TASK filter: DD+4M Lookahead.

ND/2019/02_MPU with Baseline (2.5)

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

Monthly Programme Update (Jan 2024)

#	Activity ID	Activity Name	Original Duration	Remaining Duration	BL Project Start	BL Project Finish	Start	Finish	Total Float	2024				
											Jan	Feb	Mar	Apr
1665	P11-1290	Laying of Sub-Base	7	7	18-Mar-2024	23-Mar-2024	14-Dec-2024	20-Dec-2024	98					
1666	P11-1300	Laying of Road-Base	7	7	25-Mar-2024	30-Mar-2024	20-Dec-2024	30-Dec-2024	98					
1667	P11-1310	Laying of Base Course	6	6	01-Apr-2024	06-Apr-2024	30-Dec-2024	04-Jan-2025	98					
1668	P11-1320	Laying of Wearing Course	6	6	08-Apr-2024	12-Apr-2024	04-Jan-2025	10-Jan-2025	98					
1669	P11-1330	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	17	13-Apr-2024	30-Apr-2024	10-Jan-2025	25-Jan-2025	98					
1670	P11-1340	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	7	02-May-2024	08-May-2024	25-Jan-2025	05-Feb-2025	98					
1671	3rd Cycle (3 Bays)		56	56	09-May-2024	08-Jul-2024	05-Feb-2025	29-Mar-2025	98					
1672	P11-1350	Formation of Sub-Grade	8	8	09-May-2024	16-May-2024	05-Feb-2025	12-Feb-2025	98					
1673	P11-1360	Laying of Sub-Base	7	7	17-May-2024	23-May-2024	12-Feb-2025	18-Feb-2025	98					
1674	P11-1370	Laying of Road-Base	7	7	24-May-2024	30-May-2024	18-Feb-2025	25-Feb-2025	98					
1675	P11-1380	Laying of Base Course	6	6	31-May-2024	05-Jun-2024	25-Feb-2025	01-Mar-2025	98					
1676	P11-1390	Laying of Wearing Course	6	6	06-Jun-2024	12-Jun-2024	01-Mar-2025	07-Mar-2025	98					
1677	P11-1400	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	17	13-Jun-2024	29-Jun-2024	07-Mar-2025	22-Mar-2025	98					
1678	P11-1410	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	7	02-Jul-2024	08-Jul-2024	22-Mar-2025	29-Mar-2025	98					
1679	Landscaping and Remaining Works		46	46			20-Mar-2025	07-May-2025	0					
1680	P11-1420	PMI-160 - 15 months duration for landscaping and remaining works	46	46			20-Mar-2025*	07-May-2025	0					
1681	Defect Rectification Period		62	62			08-May-2025	07-Jul-2025	0					
1682	P11-1500	PMI-160 - 2 months duration for rectification to defects works	62	62			08-May-2025*	07-Jul-2025	0					

Project Baseline Bar

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Baseline Milestone

Critical Milestone

Non-Critical Milestone

Summary

Data Date: 29-Jan-2024

Project Start: 03-Feb-2020

Project End: 08-Sep-2026

Baseline: Rev. 2.5 (January 2023 Monthly Programme Update)

4 MONTH ROLLING PROGRAMME

(Jan - Apr 2024)

Date	Revision	Checked	Approved
29-Jan-2024	0	RP	EW

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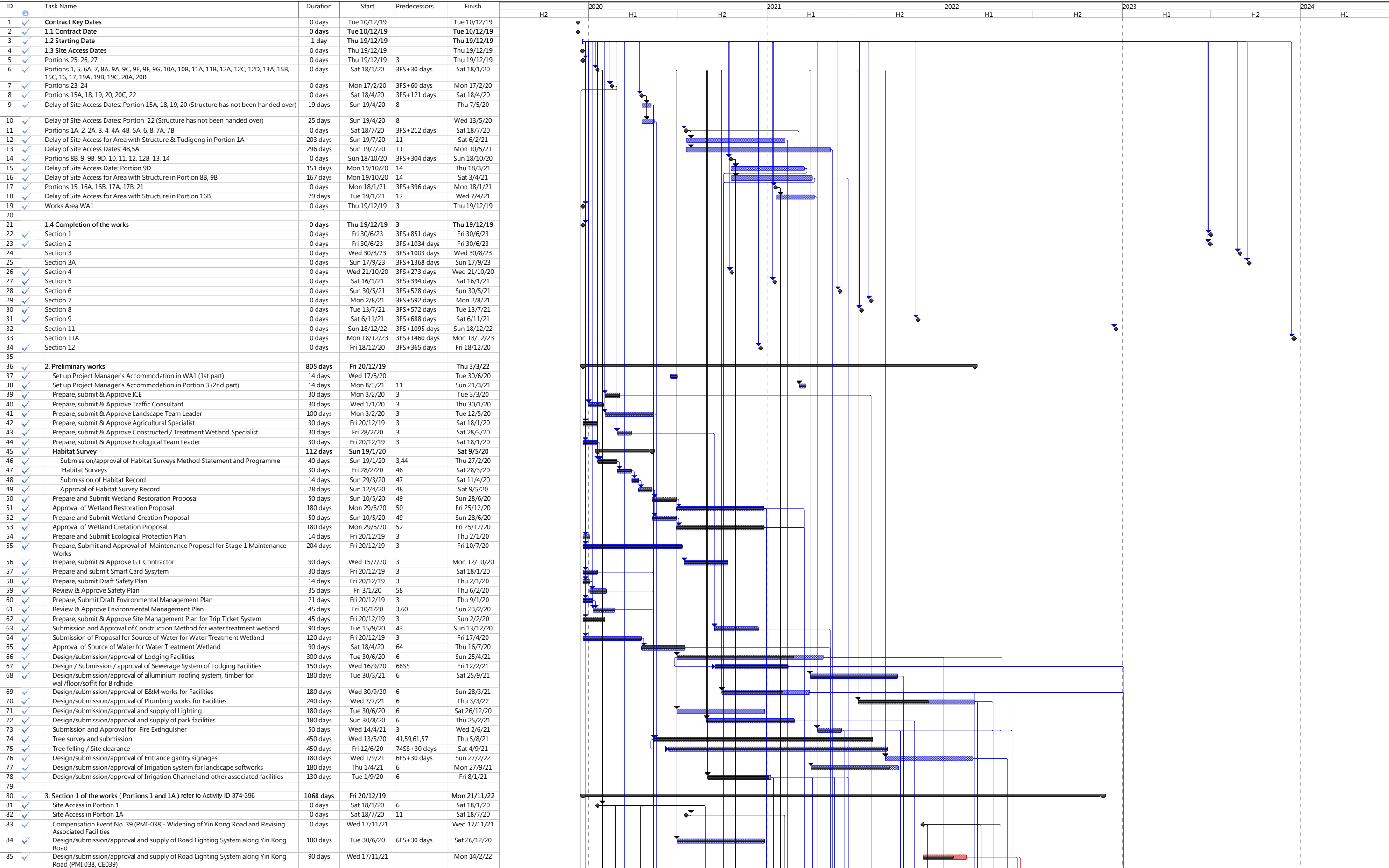
TASK filter: DD+4M Lookahead.

ND/2019/02_MPU with Baseline (2.5)

Construction Programme of ND/2019/03

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

Project Programme of the Contract



Revised Programme: Nov 2023

Date : 2023-11-3

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

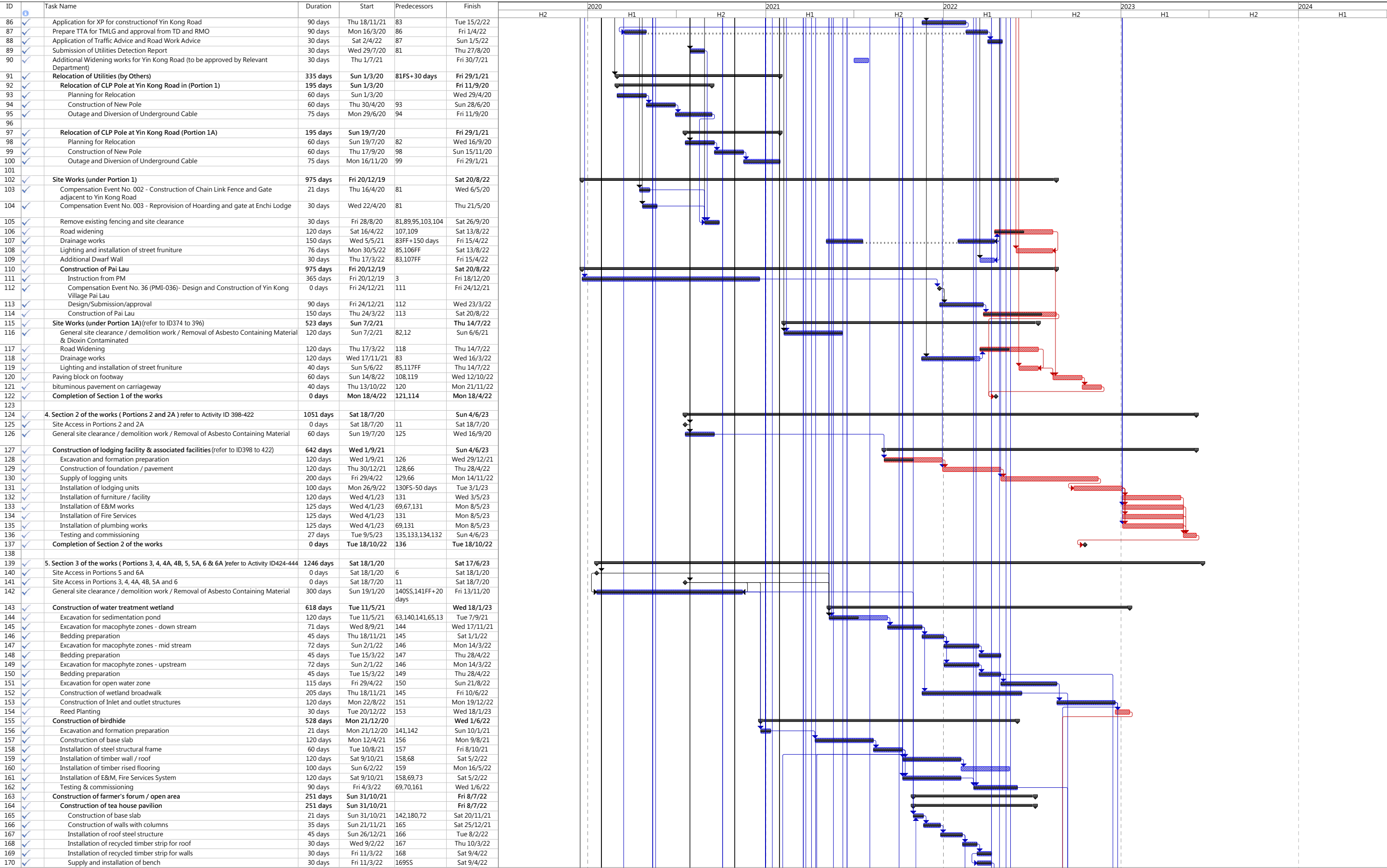
External Milestone

Progress

Deadline

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

Project Programme of the Contract



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

Project Programme of the Contract

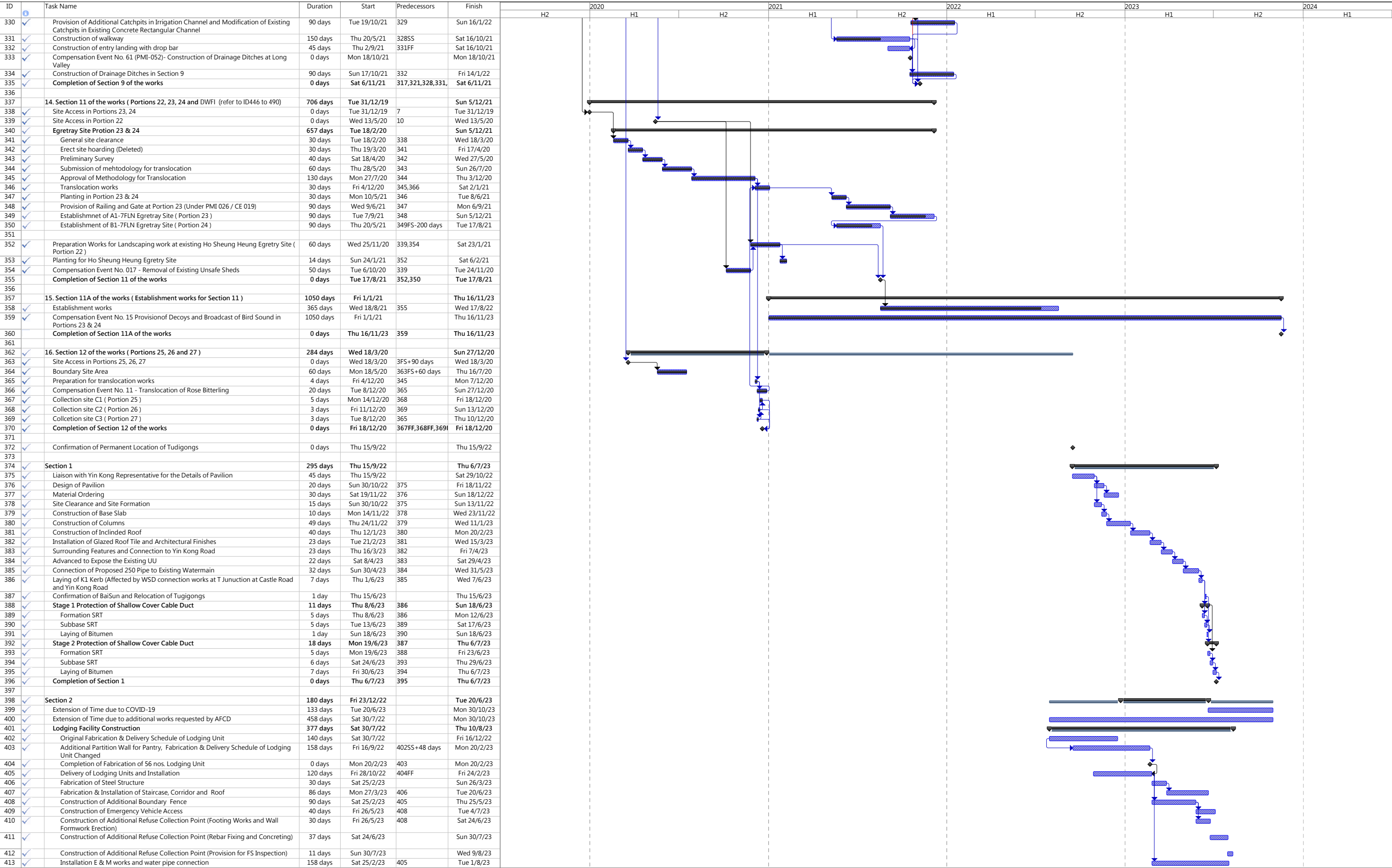
ID	Task Name	Duration	Start	Predecessors	Finish																			
						H2	2020	H1		H2	2021	H1		H2	2022	H1		H2	2023	H1		H2	2024	H1
171	✓ Installation of plumbing works / E&M works with testing & commissioning	90 days	Sun 10/4/22	170,69,70,73	Fri 8/7/22																			
172	✓ Construction of paving 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 & commissioning	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 Car Park and Farmer's Forum (refer to ID426 to 444)	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 Backfilling	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	Fri 29/12/23		Fri 27/12/24																			
209	Establishment works for landscape softworks	365 days	Fri 29/12/23	443	Fri 27/12/24																			
210	Completion of Section 3A of the Works	0 days	Fri 27/12/24	209FF	Fri 27/12/24																			
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 existing 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 Stairway 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 existing 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 Portion 14	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																			
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</																					

Project Programme of the Contract

Page 4

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

Project Programme of the Contract



Revised Programme: Nov 2023

Date : 2023-11-3

Task

Critical Task

Milestone

Summary

Rollled Up Task

Rollled Up Critical Task

Rollled Up Milestone

Rollled 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

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

Project Programme of the Contract

ID	Task Name	Duration	Start	Predecessors	Finish	H2	2020	H1	H2	2021	H1	H2	2022	H1	H2	2023	H1	H2	2024	H1
414	CLP Energization	8 days	Wed 2/8/23		Wed 9/8/23															
415	FS Submission 314/501 and FSD Approval	17 days	Mon 24/7/23		Wed 9/8/23															
416	FS Inspection	1 day	Thu 10/8/23	415	Thu 10/8/23															
417	Remaining Works of Section 2	81 days	Fri 11/8/23		Mon 30/10/23															
418	Remaining Works for Block A to Block E	81 days	Fri 11/8/23	416	Mon 30/10/23															
419	Construction of Guard House (Remaining Works)	44 days	Fri 11/8/23	416	Sat 23/9/23															
420	Construction of Additional Refuse Collection Point (E&M Works and ABWF Works)	81 days	Fri 11/8/23	416	Mon 30/10/23															
421	Construction of Additional Boundary Fence (Remaining Works)	71 days	Mon 21/8/23	416	Mon 30/10/23															
422	Completion of Section 2 Works	0 days	Mon 30/10/23	421	Mon 30/10/23															
423																				
424	Confirmation of BaiSun and Relocation of Tugigongs	0 days	Thu 15/6/23		Thu 15/6/23															
425																				
426	Section 3	197 days	Thu 15/6/23		Thu 28/12/23															
427	Advance Works for Removal of Asbesto Roof Panel (scaffolding) ~ No work is allowed before Relocation of Tudigongs	28 days	Thu 15/6/23		Wed 12/7/23															
428	Removal of Asbesto Roof Panel	20 days	Thu 13/7/23	427	Tue 1/8/23															
429	Demolition of Village House and Site Clearance	22 days	Wed 2/8/23	428	Wed 23/8/23															
430	Construction of Car Park	127 days	Thu 24/8/23	429	Thu 28/12/23															
431	Preparation of Formation	25 days	Thu 24/8/23		Sun 17/9/23															
432	Laying of Cable Duct and Drawpit	14 days	Mon 18/9/23	431	Sun 1/10/23															
433	Installation of Lighting Pole & Pillar Box	21 days	Sat 18/11/23		Fri 8/12/23															
434	CLP Energise	7 days	Sat 9/12/23	433	Fri 15/12/23															
435	Laying of Sewerage Pipe	14 days	Mon 18/9/23	431	Sun 1/10/23															
436	Formation Layer	10 days	Mon 2/10/23	435	Wed 11/10/23															
437	Subbase	10 days	Mon 9/10/23		Wed 18/10/23															
438	Final Layer	10 days	Mon 16/10/23		Wed 25/10/23															
439	Construction of Road Kerb	25 days	Thu 26/10/23	438	Sun 19/11/23															
440	Construction of U-channel	14 days	Mon 20/11/23	439	Sun 3/12/23															
441	Construction of Boundary Structure	25 days	Mon 20/11/23	439	Thu 14/12/23															
442	Construction of Entrance Gantry	35 days	Mon 20/11/23	439	Sun 24/12/23															
443	Construction of Pavement and remaining Landscape Works	25 days	Mon 4/12/23	440	Thu 28/12/23															
444	Completion of Section 3	0 days	Thu 28/12/23	443	Thu 28/12/23															
445																				
446	Section 11 - Remaining Works for DWFI	235 days	Tue 1/8/23		Fri 22/3/24															
447	Revised DWFI Design due to Objection by Yin Kong Villagers	42 days	Tue 1/8/23		Mon 11/9/23															
448	Received Yin Kong Villagers Objection of Pillar Box Location	0 days	Tue 1/8/23		Tue 1/8/23															
449	Site Meeting with Yin Kong Village Representative and AECOM	0 days	Tue 1/8/23	448	Tue 1/8/23															
450	Re-design of Pillar Box Location and DWFI Pumping Chamber	25 days	Tue 1/8/23	449	Fri 25/8/23															
451	Site Meeting with Yin Kong Village Representative, DSD, CEDD and AECOM	0 days	Fri 25/8/23	450	Fri 25/8/23															
452	Construct Demonstration Panel for Village Representative Agreement	17 days	Sat 26/8/23	451	Mon 11/9/23															
453	ELS Design and Method Statement Approval	45 days	Tue 1/8/23		Thu 14/9/23															
454	Construction of DWFI	194 days	Tue 1/8/23		Sat 10/2/24															
455	Civil Works	194 days	Tue 1/8/23		Sat 10/2/24															
456	Moved away the Pillar Box and Trimmed off the concrete plinth	21 days	Tue 1/8/23		Mon 21/8/23															
457	Materials Ordering of Multi Part Cover	90 days	Sun 10/9/23		Fri 8/12/23															
458	Dismantle installed DI pipe and E&M equipment in Pumping Chamber	2 days	Tue 19/9/23	456	Wed 20/9/23															
459	Saw cut the Pumping Chamber	2 days	Thu 21/9/23	458	Fri 22/9/23															
460	Remove concrete debris and site clearance	45 days	Sat 23/9/23	459	Mon 6/11/23															
461	Top Down Construction Method for Retaining Wall	30 days	Tue 7/11/23	460	Wed 6/12/23															
462	Excavation of 1st Layer (from +7.00 to +6.00mPD)	2 days	Tue 7/11/23	460	Wed 8/11/23															
463	Construct Layer 1 Retaining Wall (from +7.00 to +6.00mPD)	8 days	Thu 9/11/23	462	Thu 16/11/23															
464	Excavation of 2nd Layer (from +6.00 to +5.00mPD)	2 days	Fri 17/11/23	463	Sat 18/11/23															
465	Construct Layer 2 Retaining Wall (from +6.00 to +5.00mPD)	8 days	Sun 19/11/23	464	Sun 26/11/23															
466	Excavation of 3rd Layer (from +5.00 to +4.40mPD)	2 days	Mon 27/11/23	465	Tue 28/11/23															
467	Construct Layer 3 Retaining Wall (from +5.00 to +4.40mPD)	8 days	Wed 29/11/23	466	Wed 6/12/23															
468	Dismantle formwork and site clearance	4 days	Thu 7/12/23	467	Sun 10/12/23															
469	Cast bottom blinding layer	1 day	Mon 11/12/23	468	Mon 11/12/23															
470	Construction of Base Slab of Pumping Chamber	8 days	Tue 12/12/23	469	Tue 19/12/23															
471	Construction of Wall for Pumping Chamber	11 days	Wed 20/12/23	470	Sat 30/12/23															
472	Excavation for the Pillar Box concrete plinth	7 days	Sun 31/12/23	471	Sat 6/1/24															
473	Construction of the Pillar Box concrete plinth	11 days	Sun 7/1/24	472	Wed 17/1/24															
474	Waterproofing Coating for internal Slab and Wall	10 days	Sun 31/12/23	471	Tue 9/1/24															
475	Install Multi Part Cover	10 days	Sat 9/12/23	457	Mon 18/12/23															
476	Construct GMS Fencing	10 days	Thu 1/2/24	484	Sat 10/2/24															
477	E&M / Drainage Works	76 days	Sun 7/1/24	472	Fri 22/3/24															
478	Materials Ordering of Puddle Flange	50 days	Sun 7/1/24		Sun 25/2/24															
479	CLP Cable Wiring	50 days	Sun 7/1/24		Sun 25/2/24															
480	Install DI pipe and E&M equipment in Pumping Chamber	12 days	Sun 7/1/24	471	Thu 18/1/24															
481	Reserve uPVC pipe for cable works	7 days	Thu 18/1/24	473	Wed 24/1/24															
482	Connect PE pipe to existing Manhole DC1	10 days	Thu 25/1/24	481	Sat 3/2/24															
483	Construct Pillar Box	12 days	Thu 25/1/24	481	Mon 5/2/24															
484	Construction of Davit for Pumping Chamber	7 days	Thu 25/1/24	481	Wed 31/1/24															
485	CLP cut-out and meter installation	4 days	Tue 6/2/24	483	Fri 9/2/24															
486	HKT cable wiring	7 days	Sat 10/2/24	485	Fri 16/2/24															
487	Installation of SCADA System and CCTV	10 days	Sat 17/2/24	486	Mon 26/2/24															
488	Testing of Pumps	5 days	Tue 27/2/24	487	Sat 2/3/24															
489	Testing for Signal Transmitting to DSD	20 days	Sun 3/3/24	488	Fri 22/3/24															
490	Completion of DWFI Works (Section 11)	0 days	Fri 22/3/24	489	Fri 22/3/24															

Revised Programme: Nov 2023

Date : 2023-11-3

Task

Critical Task

Milestone

Summary

Rollled Up Task

Rollled Up Critical Task

Rollled Up Milestone

Rollled 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

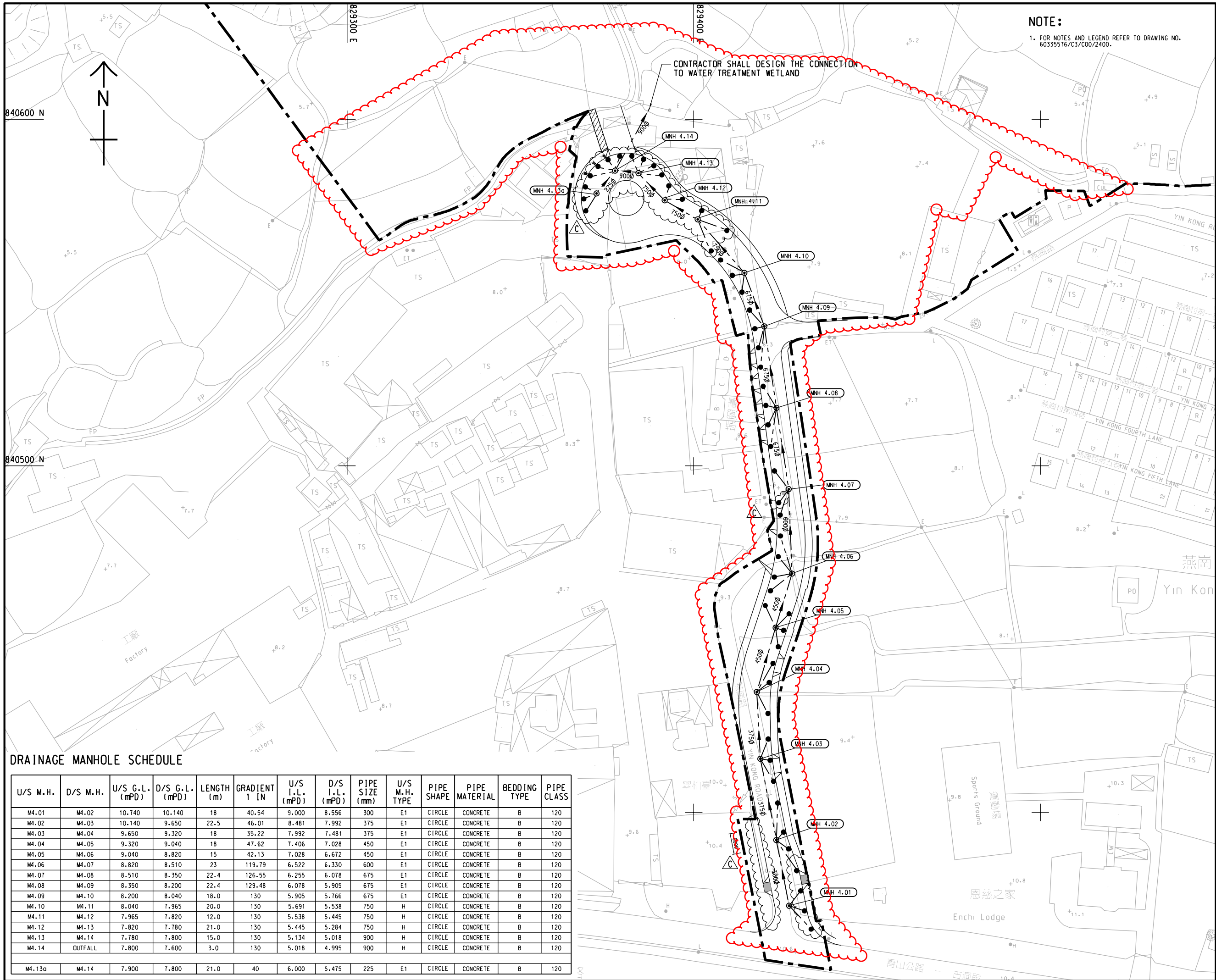
Deadline







Figure 3c. Designated wetland habitats in Appendix 35.2





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

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
REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
CLIENT					
<div><div><div>土木工程拓展署</div><div>Civil Engineering and Development Department</div></div></div>					
CONSULTANT					
<div></div>					
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. 60335576			CONTRACT NO. 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



■ Remaining Work ◆ Crit Milestone
◇ Milestone ■ Actual Work
◇ Baseline Milestone ◆ Actual Milestone
■ Project Baseline
■ Critical Remaining Work

Project ID: RP07-7-MU12-2023

Three Months Rolling Programme (08 January 2024 to 30 April 2024)

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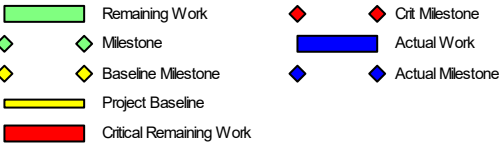
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Baseline Programme RP07 Accepted on 31 October 2023

Date	Revision	Ch...	Approved
08-Jan-24	Data Date		



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2023	2024						
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Portion J (Junction improvement works - S4)																	
OTH-2020b	Relocation of Traffic System- Siu Wan Road Junctional works (paving works etc)	40	20	12-Dec-23 A	30-Jan-24	12-Dec-23	30-Jan-24	-83	50%								
Portion Q																	
Portion Q Additional Work																	
OTH-1032-1c	Additional ducting	30	30	08-Jan-24	14-Feb-24	06-Sep-23	12-Oct-23	-183	0%								
Portion R																	
Portion R Additional Work (Ducting Works)																	
OTH-1046-7d	Additional ducting	30	30	15-Feb-24	20-Mar-24	30-Oct-23	02-Dec-23	-183	0%								
Portion S																	
OTH-1050b20	Subway Extension - Base Slab (RHS)	8	8	08-Jan-24	16-Jan-24	07-Sep-23	15-Sep-23	-147	0%								
OTH-1050b30	Demolision of Existing Structure (LHS)	10	10	17-Jan-24	27-Jan-24	16-Sep-23	27-Sep-23	-147	0%								
OTH-1050b40	Subway Extension - Base Slab (LHS)	8	8	29-Jan-24	06-Feb-24	28-Sep-23	09-Oct-23	-147	0%								
OTH-1050b50	Erection of Working Platform and erection of Falsework and Gantry	18	18	07-Feb-24	01-Mar-24	10-Oct-23	31-Oct-23	-147	0%								
OTH-1050b60	Subway Extension - Wall and top slab	17	17	02-Mar-24	21-Mar-24	01-Nov-23	20-Nov-23	-147	0%								
OTH-1050b70	Removal of ELS and Backfilling	23	23	22-Mar-24	22-Apr-24	21-Nov-23	16-Dec-23	-147	0%								
Portion U																	
Area 4																	
OTH-1070-2g	Demolition of existing central divider	15	15	08-Jan-24	24-Jan-24	21-Sep-23	10-Oct-23	-131	0%								
OTH-1070-2h	Drainage	22	22	25-Jan-24	22-Feb-24	11-Oct-23	06-Nov-23	-131	0%								
OTH-1070-2i	Construction of new central divider	15	15	23-Feb-24	11-Mar-24	07-Nov-23	23-Nov-23	-131	0%								
OTH-1070-2i	Relocate public light	15	15	12-Mar-24	28-Mar-24	24-Nov-23	11-Dec-23	-131	0%								
OTH-1070-2i	Relocate traffic signal post	15	15	12-Mar-24	28-Mar-24	24-Nov-23	11-Dec-23	-131	0%								
OTH-1070-2i	Road marking	1	1	02-Apr-24	02-Apr-24	12-Dec-23	12-Dec-23	-131	0%								
Area 3																	
OTH-1070-3a	Subway extension	60	14	11-Aug-23 A	23-Jan-24	11-Aug-23	06-Oct-23	-94	76.67%								
OTH-1070-3c	Set back road kerb	10	2	10-Oct-23 A	25-Jan-24	10-Oct-23	09-Oct-23	-94	80%								
OTH-1070-3d	Street furniture	15	15	26-Jan-24	15-Feb-24	10-Oct-23	27-Oct-23	-94	0%								
OTH-1070-3e	Construction of carriageway and road marking	18	8	21-Oct-23 A	03-Feb-24	21-Oct-23	16-Oct-23	-87	55.56%								
Portion U Additional Works																	
OTH-1070-4a	XP, TTA and RA	0	1	03-May-23 A	08-Jan-24	03-May-23	06-Sep-23	-124	0%								
OTH-1070-4c	Additional ducting	30	30	21-Mar-24	29-Apr-24	04-Dec-23	10-Jan-24	-183	0%								
Portion V,Y																	
Area 1 (New Footpath Area)																	
OTH-1080-1b	Relocate Fire Hydrant	30	6	04-Sep-23 A	13-Jan-24	04-Sep-23	09-Oct-23	-191	80%								
OTH-1080-1d	Carriageway	19	19	15-Jan-24	05-Feb-24	17-Oct-23	08-Nov-23	-191	0%								
Area 2 (Pedestrian Crossing)																	
OTH-1080-2c	Demolish existing central divider	20	20	10-Aug-23 A	02-Mar-24	10-Aug-23	15-Nov-23	-191	0%								
OTH-1080-2c	Roadworks	28	28	04-Mar-24	09-Apr-24	16-Nov-23	18-Dec-23	-191	0%								
OTH-1080-2c	Drainage	7	7	10-Apr-24	17-Apr-24	19-Dec-23	28-Dec-23	-191	0%								
OTH-1080-2c	Road lighting	7	7	18-Apr-24	25-Apr-24	29-Dec-23	06-Jan-24	-184	0%								
OTH-1080-2c	Traffic signal system	14	14	18-Apr-24	04-May-24	29-Dec-23	15-Jan-24	-191	0%								
OTH-1080-2d	Construct new central divider and traffic island	21	21	06-May-24	30-May-24	16-Jan-24	08-Feb-24	-191	0%								
Area 3 (New Pedestrian Crossing Island)																	
OTH-1080-2c	Trial Pit	10	10	06-Feb-24	20-Feb-24	09-Nov-23	20-Nov-23	-150	0%								
OTH-1080-2c	Site Clearance	4	4	21-Feb-24	26-Feb-24	21-Nov-23	25-Nov-23	-150	0%								
OTH-1080-2c	Traffic Signal System	14	14	26-Feb-24	13-Mar-24	25-Nov-23	12-Dec-23	-150	0%								
OTH-1080-2c	Form Pedestrian Crossing and Island	21	21	13-Mar-24	11-Apr-24	12-Dec-23	09-Jan-24	-150	0%								
Portion VY Additional Work																	
OTH-1080-4a	XP, TTA and RA	0	2	08-May-23 A	09-Jan-24	08-May-23	12-Oct-23	-95	0%								
OTH-1080-4c	Additional ducting	30	30	30-Apr-24	05-Jun-24	11-Jan-24	17-Feb-24	-183	0%								



Project ID: RP07-7-MU12-2023

Three Months Rolling Programme (08 January 2024 to 30 April 2024)

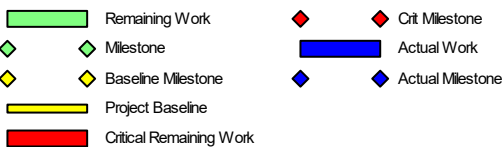
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Lookahead.

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08-Jan-24	Data Date		



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2023	2024								
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
Portion X																			
OTH-2030-1	Backfilling (RHS)	41	29	15-Dec-23 A	09-Feb-24	22-Sep-23	11-Nov-23	-150	29.27%										
OTH-2030a	Site formation, wing wall, retaining wall (Part 2)-LHS	28	9	31-Aug-23 A	17-Jan-24	31-Aug-23	25-Oct-23	-120	67.86%										
OTH-2030a-1	Backfilling (LHS)	29	20	18-Dec-23 A	14-Feb-24	25-Oct-23	28-Nov-23	-120	30%										
OTH-2030c	Street furniture and relocate directional sign (RHS)	31	31	14-Feb-24	20-Mar-24	13-Nov-23	18-Dec-23	-150	0%										
OTH-2030c1	Street furniture (LHS)	20	20	14-Feb-24	08-Mar-24	28-Nov-23	21-Dec-23	-120	0%										
OTH-2040	Construct new pavement at carriageway (RHS)	26	26	21-Mar-24	24-Apr-24	19-Dec-23	20-Jan-24	-150	0%										
OTH-2040-1	Construct new pavement at carriageway (remaining at LHS)	7	7	08-Mar-24	16-Mar-24	21-Dec-23	02-Jan-24	-120	0%										
OTH-2060	Road marking	1	1	25-Apr-24	25-Apr-24	22-Jan-24	22-Jan-24	-150	0%										
Bridge F																			
Stage 9 Piling works for pier F-02 and abutment F-01M in S.side																			
BWFW-9020a	Interface coring, sonic test, and grouting for bored pile construction at abutment pier F-02	40	40	08-Jan-24	26-Feb-24	12-Oct-23	29-Nov-23	20	0%										
Stage 10 ELS installation & Excavation and Pile Cap & piers in S.side																			
BWFW-10020	F-02 Pile cap construction (1nos, 30d/ cap, 1 workfront)	30	26	30-Dec-23 A	27-Mar-24	02-Jan-24	05-Feb-24	20	13.33%										
BWFW-10030	F-02 Pier construction (1no. column & pier, 30d/pier, 1no. workfront)	30	30	28-Mar-24	07-May-24	06-Feb-24	14-Mar-24	20	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 (After F-02 bored pile)	24	24	08-Jan-24	03-Feb-24	12-Oct-23	10-Nov-23	-27	0%										
BWFW-11010	ELS and install wailing and strut F-01	30	30	05-Feb-24	13-Mar-24	10-Nov-23	15-Dec-23	-27	0%										
BWFW-11020	F-01 Pile cap construction (1nos, 30d/ cap, 1 workfront)	30	30	14-Mar-24	22-Apr-24	15-Dec-23	23-Jan-24	-27	0%										
BWFW-11040	Abutment F-01M construction(1no. 60d/abt, 1no.workfront)	47	47	23-Apr-24	19-Jun-24	23-Jan-24	21-Mar-24	-27	0%										
Stage 12 Falsework erection in Middle of Ng Tung River																			
BWFW-12000	Erect steel platform between pier F-02 and F-03 (after F-03 and F-04 Deck)	60	3	09-Dec-23 A	10-Jan-24	19-Oct-23	30-Dec-23	113	95%										
Bridge A1																			
Pile cap of Bridge A1 Foundation																			
BWBC-1050	Pile cap for Abt A1-01M (1 no. pile cap, 45d/cap, 1no. workfront)	40	28	28-Nov-23 A	08-Feb-24	09-Nov-23	27-Dec-23	-35	30%										
Construction of Bridge A1 Substructure																			
BWBS-1070	Pier A1-02a/b (2nos. column, 36d/column, 1 no. workfront)	23	5	17-Jul-23 A	27-Jan-24	17-Jul-23	19-Oct-23	2	78.26%										
BWBS-1220	Abt A1-01M (1no. abutment, ~60 d/abutment,1no. workfront)	60	60	09-Feb-24	26-Apr-24	28-Dec-23	11-Mar-24	-35	0%										
Construction of Bridge A1 Deck																			
Between Pier A1-06 and Pier A1-05 (Deck A)																			
BWBD-1060-2	Falsework erection between A1-05 and A1-06 (Deck A)	21	20	21-Nov-23 A	30-Jan-24	26-Sep-23	21-Oct-23	-156	4.76%										
BWBD-1060-3	Bearing installation at A1-06	19	19	08-Jan-24	29-Jan-24	11-Oct-23	02-Nov-23	-155	0%										
BWBD-1060-4	Cast in-site Bridge Deck btw A1-05 and A1-06 (Deck A), 52days/span	52	52	31-Jan-24	08-Apr-24	03-Nov-23	05-Jan-24	-156	0%										
BWBD-1060-5	Post tensioning slab tendons between A1-05 and A1-06 (Deck A) (including achieve concrete strength)	12	12	09-Apr-24	22-Apr-24	06-Jan-24	19-Jan-24	-156	0%										
BWBD-1060-6	Removal of scaffolding between A1-05 and A1-06 (Deck A)	19	19	23-Apr-24	16-May-24	20-Jan-24	14-Feb-24	-156	0%										
Between Pier A1-05 and Pier A1-04 (Deck A) & Pier A1-05 and A1-06 (Deck B)																			
BWBD-1061-1	Falsework erection btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B)	21	21	31-Jan-24	27-Feb-24	29-Nov-23	22-Dec-23	-125	0%										
BWBD-1061-2	Cast in-site Bridge Deck btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B), 52days/span	52	52	09-Apr-24	11-Jun-24	06-Jan-24	09-Mar-24	-156	0%										
Between Pier A1-02 and Pier A1-01 (Deck A) & Pier A1-02 and A1-03 (Deck B)																			
BWBD-1064-1	Bearing installation at A1-01	19	19	27-Apr-24	21-May-24	12-Mar-24	06-Apr-24	-35	0%										
Bridge A1 (Stitching and Parapet)																			
BWF-1040-1	Long. Stitch (Bridge A1)- 1 span, between A1-06 and A1-05, 14 d/ span	14	14	23-Apr-24	09-May-24	20-Jan-24	05-Feb-24	-24	0%										
Bridge A2																			
Construction of Bridge A2 Substructure																			
BWBS-1020	Pier A2-02a/b (2nos. column, 36d/column, 1no. workfronts, 2 nos. pier mould)	36	13	20-Jun-23 A	22-Jan-24	20-Jun-23	03-Oct-23	-52	63.89%										
BWBS-1140a	Pier A2-05M (1no. crosshead, 26d RMD + 52d Crosshead,1no. workfront)	78	21	09-Jul-23 A	31-Jan-24	09-Jul-23	08-Nov-23	55	73.08%										
Construction of Bridge A2 Deck																			
Construction of Pier Table																			



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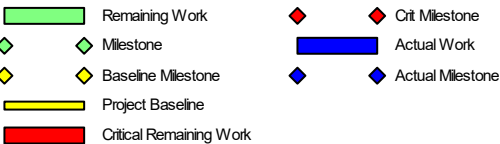
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Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2023 Dec	2024 Jan	Feb	Mar	Apr	May	Jun	Jul
A2-02																	
BWBD-1021a	Bridge A2 cast in-situ pier table at A2-02	52	16	04-Dec-23 A	09-Feb-24	04-Dec-23	05-Feb-24	-52	69.23%								
A2-03																	
BWBD-1023	Falsework Erection for A2 cast in-situ portal - A2-03l and A2-03r (include RMD platform)	90	28	26-Jun-23 A	08-Feb-24	26-Jun-23	27-Dec-23	-37	68.89%								
BWBD-1023a	Bridge A2 cast in-situ portal at A2-03l and A2-03r	65	65	09-Feb-24	03-May-24	28-Dec-23	16-Mar-24	-37	0%								
A2-05																	
BWBD-1024	Bearing installation at A2-05 and temporary fixity	30	30	01-Feb-24	09-Mar-24	22-Jan-24	28-Feb-24	55	0%								
BWBD-1024a	Bridge A2 cast in-situ pier table at A2-05	60	60	11-Mar-24	25-May-24	29-Feb-24	14-May-24	55	0%								
Form Traveller and Segment Erection Works																	
BWBD-1041	Bridge A2 by Form Traveler - Stage 1 (at Pier A2-04), Team A	76	23	17-Oct-23 A	02-Feb-24	17-Oct-23	17-Jan-24	-46	69.74%								
BWBD-1140	Bridge A2 by Form Traveler - Stage 2 (at Pier A2-02), Team A	79	79	14-Feb-24	22-May-24	06-Feb-24	17-May-24	-52	0%								
Bridge A3																	
ELS of Bridge A3 Foundation																	
BWBF-1340a	ELS for Pier A3-01r	25	20	16-Sep-23 A	30-Jan-24	16-Sep-23	17-Oct-23	-96	20%								
Pile cap of Bridge A3 Foundation																	
BWBC-3000	Pile cap for A3-01l (2nos. pile cap, 25d/cap, 1nos. workfronts)	25	12	27-Nov-23 A	20-Jan-24	03-Oct-23	01-Nov-23	-89	52%								
BWBC-3000a	Pile cap for A3-01r (1nos. pile cap, 25d/cap, 1 workfronts)	25	25	31-Jan-24	02-Mar-24	18-Oct-23	16-Nov-23	-96	0%								
Construction of Bridge A3 Substructure																	
BWBS-1195	Pier A3-01l (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)- Stage 1	26	26	01-Feb-24	05-Mar-24	28-Nov-23	29-Dec-23	-98	0%								
BWBS-1195a	Pier A3-01r (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)- Stage 2	26	26	06-Mar-24	09-Apr-24	30-Dec-23	30-Jan-24	-98	0%								
BWBS-1210	Pier A3-03r (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)-stage 1	26	21	04-Jan-24 A	31-Jan-24	28-Oct-23	27-Nov-23	-98	19.23%								
BWBS-1260	Pier A3-03l (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)-stage 2	26	18	04-Jan-24 A	30-Apr-24	31-Jan-24	04-Mar-24	-26	30.77%								
Construction of Bridge A3 Deck																	
Construction of Pier table																	
BWBD-1084-1	Fabrication of FWK and Falsework Erection for A3 cast in-situ pier table (A3-01 & A3-03)	46	17	01-Dec-23 A	26-Jan-24	01-Dec-23	26-Jan-24	-42	63.04%								
BWBD-1086	Falsework Erection for A3 cast in-situ pier table (A3-01)	16	16	10-Apr-24	27-Apr-24	31-Jan-24	21-Feb-24	-98	0%								
BWBD-1086a	Bridge A3 cast in-situ pier table (A3-01)	47	47	29-Apr-24	25-Jun-24	22-Feb-24	20-Apr-24	-98	0%								
BWBD-1088	Falsework Erection for A3 cast in-situ pier table (A3-03)	26	26	02-May-24	01-Jun-24	05-Mar-24	08-Apr-24	-26	0%								
Form Traveller and Segment Erection Works and Cast insitu Decking																	
BWBD-2110	Bridge A3 by Form Traveler Stage 5 (at Pier A3-02), Team B	114	114	06-Feb-24	28-Jun-24	16-Jan-24	06-Jun-24	-101	0%								
BWBD-2150	Setup traveler	25	25	08-Jan-24	05-Feb-24	14-Dec-23	15-Jan-24	-101	0%								
Between Pier A3-06 and Pier A3-05 (Deck A)																	
BWBD-1091	Cast in Bridge Deck (From A3-05 to A3-06) 60days/span, include falsework	60	18	15-Oct-23 A	27-Jan-24	26-Oct-23	06-Jan-24	106	70%								
BWBD-1091b	Post tensioning slab tendons between A3-05 and A3-06 (including achieve concrete strength)	12	12	29-Jan-24	14-Feb-24	08-Jan-24	20-Jan-24	114	0%								
BWBD-1091	Removal of scaffolding between A3-05 and A3-06	19	19	15-Feb-24	07-Mar-24	22-Jan-24	15-Feb-24	114	0%								
Between Pier A3-05 and Pier A3-04 (Deck A) & Between Pier A3-06 and Pier A3-05 (Deck B)																	
BWBD-1091a	Bearing installation at A3-04	20	20	08-Jan-24	30-Jan-24	26-Oct-23	17-Nov-23	104	0%								
BWBD-1091a	Falsework for Cast in Bridge Deck btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	21	10	27-Dec-23 A	18-Jan-24	18-Nov-23	12-Dec-23	114	52.38%								
BWBD-1091a	Cast in Bridge Deck btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B 60days/span	60	60	31-Jan-24	17-Apr-24	08-Jan-24	20-Mar-24	104	0%								
BWBD-1091a	Post tensioning slab tendons btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	12	12	18-Apr-24	02-May-24	21-Mar-24	08-Apr-24	112	0%								
BWBD-1091a	Removal of scaffolding btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	19	19	03-May-24	25-May-24	09-Apr-24	30-Apr-24	112	0%								
Between Pier A3-04 and Pier A3-03 (Deck A) & Between Pier A3-05 and Pier A3-04 (Deck B)																	



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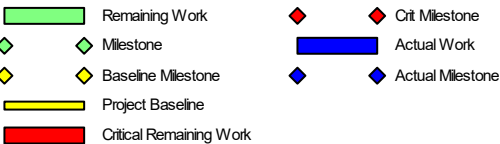
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BWBD-1091-1	Removal of sheetpile and backfill for falsework for Cast in Bridge Deck (From A3-04 to A3-05)	60	60	08-Jan-24	20-Mar-24	18-Nov-23	30-Jan-24	103	0%								
BWBD-1091-2	Falsework for Cast in Bridge Deck btw A3-03 to A3-04 Deck A & Btw A3-04 and A3-05 Deck B	21	21	21-Mar-24	18-Apr-24	16-Feb-24	11-Mar-24	103	0%								
BWBD-1091-3	Cast in Bridge Deck btw A3-03 to A3-04 Deck A & Btw A3-04 and A3-05 Deck B	60	60	19-Apr-24	02-Jul-24	21-Mar-24	05-Jun-24	103	0%								
Bridge G																	
Construction of Bridge G Foundation (Team 3) CSD																	
BWBF-1120	Abt G-06 (4 nos. pile, 15d/pile, 1 no. workfront)	60	57	04-Jan-24 A	13-Apr-24	30-Jan-24	17-Apr-24	24	5%								
BWBF-1150	Pier G-05 (1 no. pile, 15d/pile, 1 no. workfront)	15	4	30-Dec-23 A	30-Jan-24	12-Jan-24	30-Jan-24	24	73.33%								
BWBF-1210	Pier G-04 (2 nos. pile, 15d/pile, 1 no. workfront)	30	16	09-Nov-23 A	25-Jan-24	05-Dec-23	12-Jan-24	24	46.67%								
ELS of Bridge G Foundation																	
BWBE-4000	ELS for Pier G-06	30	30	15-Apr-24	21-May-24	17-Apr-24	24-May-24	48	0%								
BWBE-4010	ELS for Pier G-05	30	30	31-Jan-24	08-Mar-24	30-Jan-24	08-Mar-24	75	0%								
BWBE-4020	ELS for Pier G-04	30	30	26-Jan-24	04-Mar-24	12-Jan-24	20-Feb-24	49	0%								
BWBE-4030	ELS for Pier G-03	30	30	08-Jan-24	14-Feb-24	05-Dec-23	12-Jan-24	48	0%								
BWBE-4040	ELS for Pier G-02	30	30	08-Jan-24	14-Feb-24	17-Nov-23	22-Dec-23	18	0%								
BWBE-4050	ELS for Pier G-01	30	30	08-Jan-24	14-Feb-24	06-Sep-23	12-Oct-23	-72	0%								
Pile cap of Bridge G Foundation																	
BWBC-4000	Pile cap for G-01 (2nos. pile cap, 30d/cap, 1no. workfront)	60	60	15-Feb-24	29-Apr-24	13-Oct-23	22-Dec-23	-72	0%								
BWBC-4010	Pile cap for G-02 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	15-Feb-24	20-Mar-24	22-Dec-23	30-Jan-24	18	0%								
BWBC-4020	Pile cap for G-03 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	15-Feb-24	20-Mar-24	12-Jan-24	20-Feb-24	48	0%								
BWBC-4030	Pile cap for G-04 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	05-Mar-24	12-Apr-24	20-Feb-24	26-Mar-24	49	0%								
BWBC-4040	Pile cap for G-05 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	09-Mar-24	17-Apr-24	08-Mar-24	17-Apr-24	75	0%								
Construction of Bridge G Substructure																	
BWBS-1160	Pier G-01a/b (2nos. column, 30d/column, 1no. workfront)	60	60	30-Apr-24	12-Jul-24	23-Dec-23	08-Mar-24	-72	0%								
BWBS-1250	Pier G-04 (1no. column, 30d/column, 1no. workfront)	30	30	13-Apr-24	20-May-24	26-Mar-24	06-May-24	49	0%								
Construction of Bridge Furniture																	
Other Bridge Deck Works																	
BWF-108	Procurement of Installation of traffic detection system and TCSS items (KD5)	180	180	29-Jan-24	06-Sep-24	29-Nov-23	11-Jul-24	128	0%								
BWF-1100	Preservation and Protection (S8)	90	90	08-Jan-24	29-Apr-24	19-Mar-25	10-Jul-25	365	0%								
BWF-1120	Landscape works(S9)	90	90	08-Jan-24	29-Apr-24	19-Mar-25	10-Jul-25	365	0%								
BWF-1120a	Establishment works for landscape works(S9)	365	365	30-Apr-24	29-Apr-25	11-Jul-25	10-Jul-26	450	0%								
BWF-114	Procurement of Lightings items	180	180	08-Jan-24	16-Aug-24	12-Oct-23	23-May-24	177	0%								
BWF-1140a1	Liaison with CLP for physical works and site arrangement	30	30	08-Jan-24	14-Feb-24	12-Oct-23	16-Nov-23	177	0%								
BWF-1140a1-1	Procurement for deck void (by CLP)	180	180	15-Feb-24	21-Sep-24	17-Nov-23	28-Jun-24	177	0%								
BWF-1140a2-1	Procurement for bridge deck (by CLP)	180	180	15-Feb-24	21-Sep-24	17-Nov-23	28-Jun-24	177	0%								
Footbridge F4																	
Design and Fabrication (Steel Footbridge F4 and Lighting)																	
BWBF-136-2	Fabrication of steel element for Footbridge F4 (including 2 weeks holiday during Chinese New Year in Feb 2024)	64	57	29-Dec-23 A	16-Mar-24	29-Dec-23	16-Mar-24	184	10.94%								
BWBF-136-2a	Delivery of steel element (assuming contract to SC signed on or before end of Sept 2023)(assume 2 weeks delivery time)	10	10	18-Mar-24	28-Mar-24	18-Mar-24	28-Mar-24	184	0%								
BWBF-136-3	Lighting design (Civil requirement, Pillar box arrangement, Electrical Design, lighting and earthing, Lux simulation)	24	22	08-May-23 A	01-Feb-24	08-May-23	01-Feb-24	115	8.33%								
BWBF-136-3a	Approval of Lighting design(Civil requirement,Pillar box arrangement,Electrical Design,lighting&earthing,Lux simulation)	90	90	02-Feb-24	27-May-24	02-Feb-24	27-May-24	115	0%								
Construction of Footbridge F4 Foundation																	
BWBF-1370	Footbridge F4-02 (6nos. socket-H, 4d/pile, 1no. workfront) Southbank of Ng Tung River	24	18	14-Dec-23 A	17-Feb-24	16-Dec-23	16-Jan-24	68	25%								
BWBF-170a	ELS for Footbridge F4-02	30	15	29-Sep-23 A	24-Jan-24	11-Nov-23	15-Dec-23	68	50%								
ELS of Bridge F4 Foundation																	
BWBE-5000	ELS for Pier F4-01	20	14	14-Dec-23 A	23-Jan-24	09-Dec-23	04-Jan-24	7	30%								



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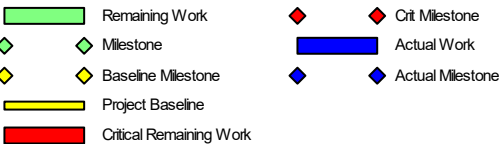
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BWBE-5010	ELS for Pier F4-02	20	20	19-Feb-24	12-Mar-24	17-Jan-24	08-Feb-24	78	0%								
Pile cap of Bridge F4 Foundation																	
BWBC-5000	Pile cap for F4-01 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	24-Jan-24	01-Mar-24	05-Jan-24	08-Feb-24	7	0%								
BWBC-5010	Pile cap for F4-02 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	13-Mar-24	20-Apr-24	09-Feb-24	18-Mar-24	78	0%								
Construction of Footbridge F4 Substructure																	
BWBS-1180	Footbridge F4-01 (1no. abutment, 60d/abutment,1no. workfront)	60	60	02-Mar-24	17-May-24	09-Feb-24	26-Apr-24	57	0%								
Footbridge F6 Cum Cycle Track																	
Design, Procurement and Fabrication (S960 Footbridge F6 and Lift)																	
INTS2-1450	Design and Approval of steel element and canopy for Footbridge F6	339	21	11-Apr-23 A	31-Jan-24	11-Apr-23	28-Sep-23	-138	93.81%								
INTS2-1450-0	Fabrication and delivery of steel element an canopy for Footbridge F6	99	99	01-Feb-24	05-Jun-24	29-Sep-23	29-Jan-24	-88	0%								
INTS2-1450-1b	Fabrication for lift	165	110	01-Nov-23 A	24-May-24	01-Nov-23	24-May-24	11	33.33%								
INTS2-1450-1c	Design and Approval of bearing for Footbridge F6	90	90	01-Feb-24	25-May-24	29-Sep-23	18-Jan-24	-138	0%								
INTS2-1450-2	Lighting design(Civil requirement,Pillar box arrangement,Electrical Design,lighting&earthing,Lux simulation)KD3-F6&SE	146	44	08-May-23 A	01-Mar-24	08-May-23	28-Oct-23	-73	69.86%								
INTS2-1450-2a	Procurement of lighting items and E&M items	144	144	02-Mar-24	26-Aug-24	30-Oct-23	25-Apr-24	-73	0%								
Footbridge F6 (Part C)																	
INTS1-9120	ELS for F6 (Part C)- Pier C04 and Lift	52	52	04-Mar-24	08-May-24	01-Nov-23	03-Jan-24	-130	0%								
Footbridge F6 (Part D)																	
INTS1-9030	Construction of Substructure for F6 Part D- Pile cap	29	17	10-Dec-23 A	20-Apr-24	15-Jan-24	20-Feb-24	-66	41.38%								
INTS1-9030a	Construction of Substructure for F6 Part D- Pier C05	44	36	02-Jan-24 A	04-Jun-24	21-Feb-24	16-Apr-24	-66	18.18%								
Lift Tower and Footbridge F6 (Portion J)																	
Part A (Cable D)																	
INTS2-1320	F6 pile cap and pier (Part A)- 1 pile cap (P01), pile cap (abutment) and 1 pier (P01)	52	26	10-Nov-23 A	06-Feb-24	20-Dec-23	24-Feb-24	30	50%								
INTS2-1330	F6 Falsework Erection (Part A)	14	14	07-Feb-24	26-Feb-24	26-Feb-24	12-Mar-24	30	0%								
INTS2-3000c	F6 pier works C01, C02 (2 Piers), 1WF	60	48	09-Dec-23 A	03-Apr-24	29-Sep-23	11-Dec-23	-10	20%								
Part B (Some part After Cable D)																	
INTS2-1060a	ELS for pile cap and pier at P07, P08, C03 (3 locations)	60	60	08-Jan-24	20-Mar-24	06-Nov-23	17-Jan-24	-111	0%								
INTS2-1100	Pile caps, Abutment Construction, 3 nos. of cap, 1WF, Stage 1	40	40	21-Mar-24	11-May-24	18-Jan-24	07-Mar-24	-111	0%								
Part D																	
INTS2-1080a	Construction of Footbridge F6 Pier P06 after TTA no.2 (ELS, 1 cap, 1 pier)(Part D)	90	90	08-Jan-24	29-Apr-24	06-Sep-23	22-Dec-23	-37	0%								
Depressed Road A																	
Depressed Rd A Bay 1-10																	
UTRA-1003	Excavation and ELS Installation (5-7)	26	49	30-May-23 A	07-Mar-24	30-May-23	04-Nov-23	-58	0%								
UTRA-1004	Structure (5-7)	78	78	08-Mar-24	14-Jun-24	06-Nov-23	07-Feb-24	-58	0%								
UTRA-1006	Excavation and ELS Installation (8-12)	77	109	08-Jul-23 A	23-May-24	08-Jul-23	17-Jan-24	-128	0%								
Underpass at Portions H, J, K																	
Underpass - ELS Works																	
ELSW for Underpass Bays 9 - 11																	
INTS2-4120	Install 1st layer of strut	9	6	03-Dec-23 A	31-Jan-24	28-Oct-23	07-Nov-23	-171	33.33%								
INTS2-4130	Excavation to below 2nd layer of strut	18	18	01-Feb-24	24-Feb-24	08-Nov-23	28-Nov-23	-171	0%								
INTS2-4140	Install 2nd layer of strut	9	9	26-Feb-24	06-Mar-24	29-Nov-23	08-Dec-23	-171	0%								
INTS2-4150	Excavate to founding level	18	18	07-Mar-24	27-Mar-24	09-Dec-23	02-Jan-24	-171	0%								
INTS2-4160	Formation and blinding	2	2	28-Mar-24	02-Apr-24	03-Jan-24	04-Jan-24	-171	0%								
INTS2-4160a	Waterproofing (Base slab and wall)	3	3	03-Apr-24	06-Apr-24	05-Jan-24	08-Jan-24	-171	0%								
ELSW for Underpass Bays 12 - 13																	
INTS2-4170	Excavation to below 1st layer of strut	12	9	01-Nov-23 A	14-Mar-24	10-Nov-23	23-Nov-23	-191	25%								
INTS2-4180	Install 1st layer of strut	9	9	15-Mar-24	25-Mar-24	24-Nov-23	04-Dec-23	-191	0%								
INTS2-4190	Excavation to below 2nd layer of strut	12	12	26-Mar-24	12-Apr-24	05-Dec-23	18-Dec-23	-191	0%								
INTS2-4200	Install 2nd layer of strut	9	9	13-Apr-24	23-Apr-24	19-Dec-23	30-Dec-23	-191	0%								
INTS2-4200a	Excavate to founding level	12	12	24-Apr-24	08-May-24	02-Jan-24	15-Jan-24	-191	0%								



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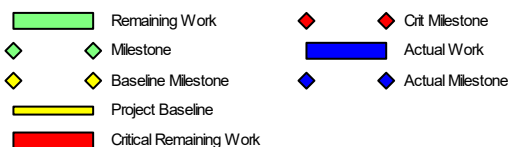
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Baseline Programme RP07 Accepted on 31 October 2023

Date	Revision	Ch...	Approved
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Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2023	2024							
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
Underpass - Structural Works																		
Underpass Bays C1 to C8 at Portion H																		
Underpass - Bay C1																		
INTS1-1s1	Structure Works for Bay C1 - Wall	33	21	27-Sep-23 A	31-Jan-24	04-Oct-23	11-Nov-23	-62	36.36%									
INTS1-1s2	Structure Works for Bay C1 - Roof	22	22	01-Feb-24	29-Feb-24	13-Nov-23	07-Dec-23	-62	0%									
Underpass - Waterproofing and Backfilling																		
INTS1-1300	Waterproofing to Structure Works for Bay C1 to C4	12	12	01-Mar-24	14-Mar-24	08-Dec-23	21-Dec-23	-53	0%									
INTS1-1300-2	Backfilling to Structure Works for Bay C1 to C4	30	30	15-Mar-24	23-Apr-24	22-Dec-23	29-Jan-24	-53	0%									
Underpass - Bays C9 - C15 at Portions H, J and K																		
Underpass C9-C11 Structure (assume hanging UUs and concurrent with UUs diversion)																		
INTS2-3100	Combined Bay C10 & C11 - Base Slab	20	20	08-Apr-24	30-Apr-24	09-Jan-24	31-Jan-24	-171	0%									
INTS2-3100a	Combined Bay C10 & C11 - Wall (Part 1- below existing 1350SW)	11	11	02-May-24	14-May-24	01-Feb-24	16-Feb-24	-171	0%									
INTS2-3150	Bay C9 - Base Slab	20	20	02-May-24	25-May-24	01-Feb-24	27-Feb-24	-171	0%									
Underpass C14-C15																		
INTS2-1010-3	Waterproofing (Base Slab)	3	3	24-Apr-24	26-Apr-24	18-Jan-24	20-Jan-24	-177	0%									
INTS2-1090	Structure Works for Bay C15- Base slab (including removal of FWk and backfill)	28	28	27-Apr-24	31-May-24	22-Jan-24	26-Feb-24	-177	0%									
BS, E&M Works and Remaining Road Works in Underpass and Depressed Roads																		
INTS3-101	Lighting, E&M and BS Procurement	200	200	07-Feb-24	12-Oct-24	08-Dec-23	13-Aug-24	-61	0%									
Depressed Road B																		
B1-B3																		
UTR-1000	U trough B (27 nos. socket-H piles, 4 day/pile, 1 workfronts) for B1 to B3, Assume CSD approved - omitted socked H pile	0	0	08-May-23 A	08-Jan-24	08-May-23	06-Sep-23	-44	0%									
UTR-1040	Construction of U-trough B (3 bays, 15m/bay, 30d/bay,1workfronts)	90	20	21-Nov-23 A	30-Jan-24	19-Feb-24	08-Jun-24	60	77.78%									
B4-B10																		
UTR-1050c	ELS for U-trough B (B4 - B10, 7 bays, 2 workfronts)-Part 3 (Sheet pile after UUs diverted)	18	14	24-Nov-23 A	11-Apr-24	20-Nov-23	09-Dec-23	-119	22.22%									
UTR-1100	ELS for U-trough B (B4 - B10, 7 bays, 2 workfronts)-Part 4 (Excavation and installation of strut & kingpost)	100	100	12-Apr-24	10-Aug-24	11-Dec-23	16-Apr-24	-119	0%									
Remaining Works at Depressed road and Slip Road at both side of Depressed Road B																		
Slip Road from Interchange to Fanling Highway																		
UTR-3100a	Retaining Wall FW9 (13 bays, 15d/bay,2 teams)-Part 2	48	48	09-Mar-24	09-May-24	18-Nov-23	17-Jan-24	-138	0%									
Slip Road from Fanling Highway to Interchange																		
UTR-3010	FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas and other UUs)-Bay 1-5 & 8-10	60	60	14-Mar-24	30-May-24	14-Nov-23	25-Jan-24	-165	0%									
UTR-3010a	FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas and other UUs)-Bay 6 & 7	30	30	20-Apr-24	27-May-24	16-Feb-24	21-Mar-24	-117	0%									
Underground Utilities (UUs) Works																		
Drainage Works																		
North of Sha Tau Kok Road																		
Temporary Diversion (for ELSW of Underpass C9-C13)																		
INTS1-1130d	Temp support / diversion of existing 1350 stormwater pipe at Sha Tau Kok Road	36	20	09-Nov-23 A	30-Jan-24	06-Sep-23	19-Oct-23	-170	44.44%									
Stormwater 1350mm dia																		
INTS1-1130a	1350 stormwater pipe near junction of STK Rd/Ma Sik rd (from existing to SMH 2002c to downstream at Ma Sik Rd, C7)	83	20	18-Apr-23 A	30-Jan-24	18-Apr-23	23-Nov-23	-135	75.9%									
INTS1-1130b	Testing of 1350 stormwater pipe at Ma Sik rd	15	15	31-Jan-24	20-Feb-24	24-Nov-23	11-Dec-23	-135	0%									
INTS1-1130c	Connection of 1350 stormwater pipe at Ma Sik rd to downstream pipeworks (constructed by other contract C7)	15	15	21-Feb-24	08-Mar-24	12-Dec-23	30-Dec-23	-135	0%									
INTS1-1130c1	Downstream stormwater pipework available for connection (constructed by other contract C7)	0	0	08-Jan-24*		02-Jan-24		-85	0%									
INTS1-1130c1	Removal of existing 1350SW (near Underpass Bay 11) including existing manhole and temporary support	5	5	09-Mar-24	14-Mar-24	02-Jan-24	06-Jan-24	-135	0%									
Stormwater 900mm dia																		



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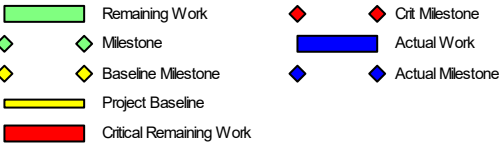
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										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
INTS1-1130a1	Excavation for 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	20	20	08-Jan-24	30-Jan-24	06-Nov-23	28-Nov-23	-117	0%								
INTS1-1130a2	Install 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	62	62	31-Jan-24	19-Apr-24	29-Nov-23	15-Feb-24	-117	0%								
Along Sha Tau Road																	
INTS2-1040	UU Works (drainage) - Northbound of Sha Tau Kok Road (after TTA2)-Part 1	60	60	26-Feb-24	10-May-24	27-Dec-23	09-Mar-24	-111	0%								
Rising Main																	
From Sewerage Pumping Station to downstream via Ma Sik Road and On Kui Street																	
INTS1-1120a	Rising Main on Ma Sik Rd (Part 2- Ma Sik Rd Via Sha Tau Kok Rd to downstream at On Kui St)	70	56	11-Feb-23 A	15-Mar-24	11-Feb-23	16-Nov-23	-111	20%								
INTS1-1120b	Rising Mains on Ma Sik Rd (Part 3- within Portion N- in/out sewerage pumping station)	70	70	27-Apr-24	22-Jul-24	22-Mar-24	19-Jun-24	-7	0%								
INTS1-1400	Rising Main installation (undemeath CLP 132 Ping Che joint bay) (South of STK Rd)	20	20	16-Mar-24	12-Apr-24	17-Nov-23	09-Dec-23	-111	0%								
From Sha Tau Kok Road to downstream via Ma Sik Road																	
INTS1-1120b1	Rising Mains on Ma Sik Rd (From STK Rd to Ma Sik Rd down stream near C7)	70	70	26-Feb-24	23-May-24	27-Dec-23	21-Mar-24	-87	0%								
Sewerage Works																	
North of Sha Tau Kok Road																	
INTS1-1140	Remaining sewerage at Ma Sik Rd (Part 1) Ma Sik Road (from rising main of STK Rd to C7) (North of STK Rd)	90	9	08-Dec-22 A	08-May-24	08-Dec-22	15-Jun-24	6	90%								
South of Sha Tau Kok Road																	
INTS1-1300a2	Construct manhole FMH_FL5.07	32	20	06-Sep-23 A	30-Jan-24	06-Sep-23	07-Oct-23	-110	37.5%								
INTS1-1300a	Sewerage pipe between FMH 5.06 and FMH5.07	14	14	31-Jan-24	19-Feb-24	09-Oct-23	25-Oct-23	-110	0%								
INTS1-1300a	Construct manhole FMH_FL5.08	27	27	20-Feb-24	21-Mar-24	26-Oct-23	25-Nov-23	-110	0%								
INTS1-1300a	Sewerage pipe between FMH 5.07 and FMH5.08	14	14	22-Mar-24	11-Apr-24	27-Nov-23	12-Dec-23	-110	0%								
INTS1-1300a	Sewerage pipe between FMH 5.08 and FMH5.09	14	14	12-Apr-24	27-Apr-24	13-Dec-23	30-Dec-23	-39	0%								
INTS1-1300a3	ELSW for sewerage works from FMH_FL5.09 to FMH5.10	60	13	08-Dec-22 A	22-Jan-24	08-Dec-22	19-Sep-23	-95	78.33%								
INTS1-1300a4	Construct manhole FMH_FL5.10	24	24	23-Jan-24	22-Feb-24	20-Sep-23	19-Oct-23	-95	0%								
INTS1-1300a	Construct manhole FMH_FL5.09	24	24	23-Feb-24	21-Mar-24	20-Oct-23	17-Nov-23	-95	0%								
INTS1-1300a	Sewerage pipe between FMH 5.09 and FMH5.10	24	24	22-Mar-24	23-Apr-24	18-Nov-23	15-Dec-23	-95	0%								
INTS1-1300a4	Sewerage pipe between FMH 5.10 and FMH1004470 (including TTA and excavation)	30	30	24-Apr-24	30-May-24	16-Dec-23	23-Jan-24	-95	0%								
INTS1-1300b3	Sewerage works including ELSW (Portion K), from FMH_FL5.05 to FMH_FL5.06	93	50	08-Dec-22 A	08-Mar-24	08-Dec-22	04-Nov-23	-138	46.24%								
INTS1-1300b3	Sewerage works including ELSW (Portion K), from FMH_FL5.05 to FMH_FL5.06 (at temporary run in/out of wholesale market))	12	12	24-Feb-24	08-Mar-24	21-Oct-23	04-Nov-23	-138	0%								
INTS1-1300c1	Sewerage works including ELSW (STK Road), FMH5.00 and pipe from FMH5.00 to FMH5.01	50	12	14-Jan-23 A	20-Jan-24	14-Jan-23	18-Sep-23	-191	76%								
INTS1-1300c2	Sewerage works including ELSW (STK Road), FMH5.01 and pipe from FMH5.01 to FMH5.02	84	34	29-May-23 A	04-Mar-24	29-May-23	31-Oct-23	-191	59.52%								
Temporary diversion (for ELWS of Underpass C9-C13)																	
INTS1-1300c3	Temporary sewerage diversion from FMH5.05 to new sewerage manhole and then existing manhole (Construction)	28	14	31-Jul-23 A	23-Jan-24	31-Jul-23	21-Sep-23	-159	50%								
Waterworks																	
INTS1-1220	Watermain at STK Rd (Part 1) near Part C of Footbridge F6- 600DI	34	36	09-Aug-23 A	21-Feb-24	09-Aug-23	19-Oct-23	-161	0%								
INTS1-1220.1	Watermain at STK Rd (Part 1) near Part C of Footbridge F6- 600MS and temp connection point - 600MS	34	45	09-Aug-23 A	02-Mar-24	09-Aug-23	31-Oct-23	-150	0%								
INTS1-1220.2	Watermain at STK Rd (Part 1) near Part C of Footbridge F6- 300DI and temp connection point - 300DI	34	45	09-Aug-23 A	02-Mar-24	09-Aug-23	31-Oct-23	-150	0%								
INTS1-1220a	Watermain at STK Rd (Part 2) near Part D of Footbridge F6- 600DI	30	30	22-Feb-24	27-Mar-24	20-Oct-23	24-Nov-23	-161	0%								
INTS1-1220a11	Watermain at STK Rd (Part 2) near Part D of Footbridge F6 and temp connection point - 600MS	21	21	04-Mar-24	27-Mar-24	01-Nov-23	24-Nov-23	-150	0%								
INTS1-1220a21	Watermain at STK Rd (Part 2) near Part D of Footbridge F6 and temp connection point - 300DI	21	21	04-Mar-24	27-Mar-24	01-Nov-23	24-Nov-23	-150	0%								



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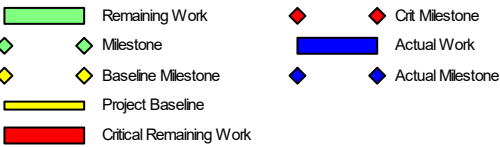
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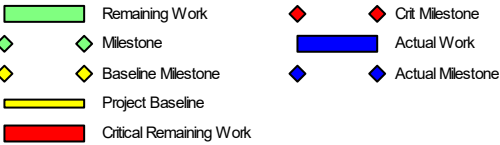
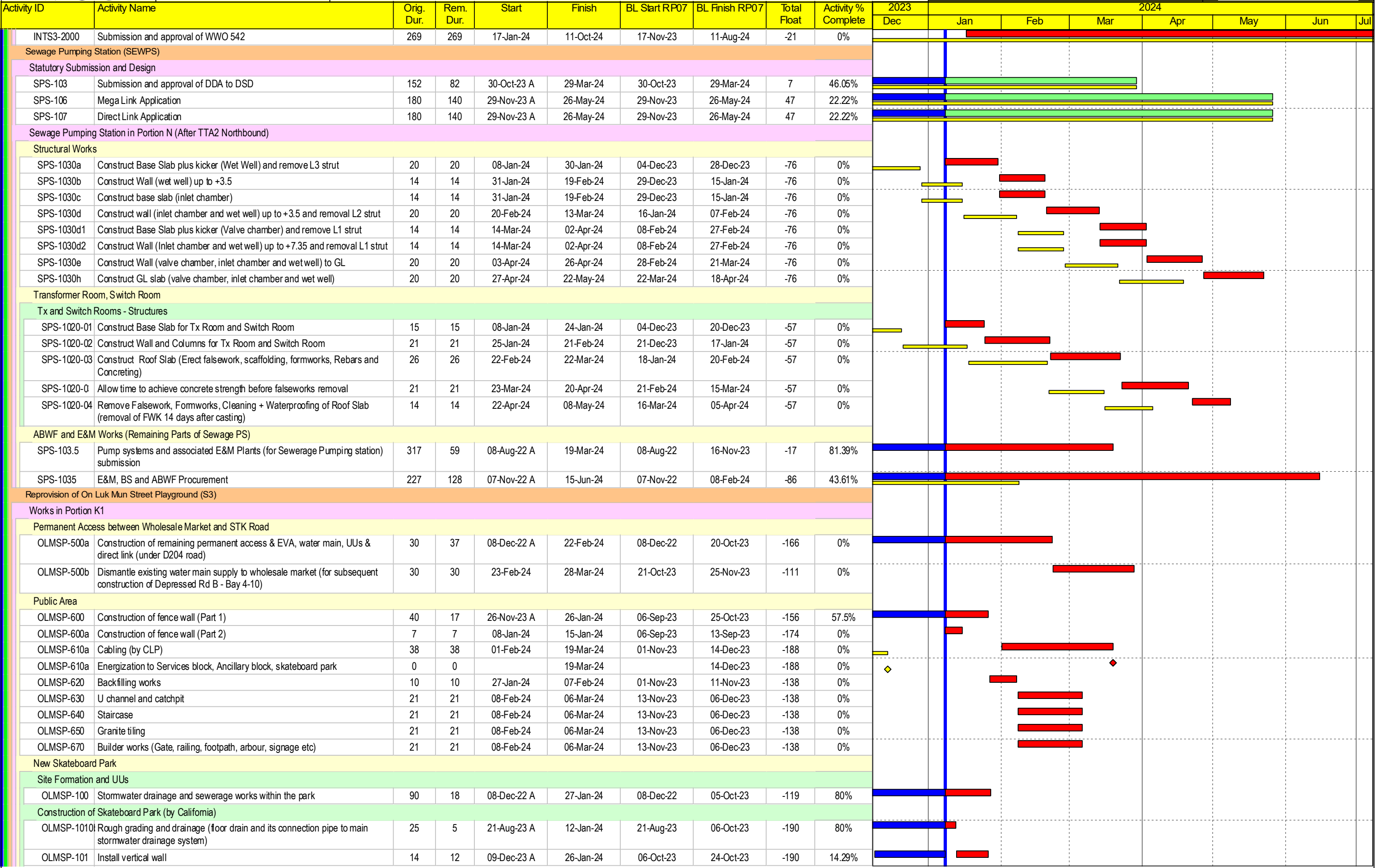
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INTS1-1220b	Watermain (from STK Rd to connection point at On Kui ST) (Part 3) - 600DI and final connection	15	15	28-Mar-24	18-Apr-24	25-Nov-23	12-Dec-23	-161	0%								
Temporary connection (for ELSW of Underpass C9-C13)																	
INTS1-1220a1	Temporary connection - 600MS and 300DI (including all testing)	15	15	28-Mar-24	18-Apr-24	25-Nov-23	12-Dec-23	-150	0%								
Existing UU Diversion																	
CLP																	
CLP 132kV and 11kV Cable Works at Bridge and interchange area																	
CLP-1040	ESS by CLP at portion I	0	0		24-Apr-24*		30-Dec-23	-92	0%								
Cable D (Blue) Fanling- Ping Che Circuit 132KV- by CLP (Bridge A3 and Interchange Area)																	
CLP-4000	Diversion of CLP 163m cable D1 (At portion H)(after C5 to C8)	45	45	07-Feb-24	06-Apr-24	09-Oct-23	30-Nov-23	-77	0%								
CLP-4005	Diversion of CLP 163m cable D1 (At portion H)(outside Underpass)	50	26	08-Dec-22 A	06-Feb-24	08-Dec-22	07-Oct-23	-77	48%								
CLP-4010a	Diversion of CLP 270m cable D2 (At portion I,J,N)-at STK Rd (after TTA 2)	10	10	13-Apr-24	24-Apr-24	11-Dec-23	21-Dec-23	-92	0%								
CLP-4020	Diversion of CLP 180m cable D3 -after TTA 2	75	17	08-Aug-23 A	26-Jan-24	08-Aug-23	27-Nov-23	-23	77.33%								
CLP-4030	Abandon of Cable D (At portion H,I,J,N)	38	38	25-Apr-24	11-Jun-24	02-Jan-24	17-Feb-24	-92	0%								
CLP 11kV Cables works at Interchange area (tentative scheme)																	
CLP-5020	Abandon 11kV cables in F6 & underpass area (portion K/H) (after C5 to C8)	15	15	08-Jan-24	24-Jan-24	16-Sep-23	05-Oct-23	-171	0%								
CLP-5040	Abandon 11kV cables in Underpass and Uthrough B area (portion K)	15	15	08-Jan-24	24-Jan-24	02-Nov-23	18-Nov-23	-73	0%								
CLP-5060	Abandon 11kV cables at STK Road and MS Road (portion J)	15	15	08-Jan-24	24-Jan-24	15-Sep-23	04-Oct-23	-125	0%								
Gasmain (Towngas by Others)																	
TG-1000	IPA gas main laying (Above Underpass C8 and along STK Rd)	45	26	11-Apr-23 A	06-Feb-24	11-Apr-23	06-Oct-23	-165	42.78%								
TG-1000a	IPA gas main laying (after pipe pile underpass C9-C10)	25	25	06-Feb-24	09-Mar-24	06-Oct-23	06-Nov-23	-165	0%								
TG-1010a	MP gas main laying-stage 1 (after pipe pile underpass C9-C10)	25	25	08-Jan-24	05-Feb-24	06-Oct-23	06-Nov-23	-139	0%								
TG-1020	MP gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	35	14	10-Jun-23 A	24-Jan-24	10-Jun-23	24-Oct-23	-128	59.29%								
TG-1040	LBG gas main laying-stage 1(Above Underpass C8 and along STK Rd)	47	26	11-Apr-23 A	06-Feb-24	11-Apr-23	07-Oct-23	-165	45%								
TG-1040a	LBG gas main laying-stage 1 (after pipe pile underpass C9-C10)	25	25	06-Feb-24	09-Mar-24	07-Oct-23	07-Nov-23	-165	0%								
TG-1050	LBG gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	35	13	10-Jun-23 A	24-Feb-24	10-Jun-23	24-Oct-23	-153	62.43%								
TG-1070	Abandon existing gas main	4	4	09-Mar-24	14-Mar-24	09-Nov-23	13-Nov-23	-165	0%								
Telecom (by Others)																	
HGC/HKBN/HKBNES/HK/PCCW																	
TL-1000	HGC/HKBN/HKBNES/PCCW diversion -stage 1 (after C5-C8)	23	23	08-Jan-24	02-Feb-24	06-Sep-23	04-Oct-23	-111	0%								
TL-1010	HGC/HKBN/HKBNES/PCCW diversion -stage 2 (after TTA)	22	22	08-Jan-24	01-Feb-24	06-Sep-23	03-Oct-23	-110	0%								
TL-1020	HGC/HKBN/HKBNES/PCCW diversion -stage 3 (after RW9, near existing market and new playground)	31	31	08-Jan-24	15-Feb-24	06-Sep-23	13-Oct-23	-119	0%								
TL-1030	HGC/HKBN/HKBNES/PCCW diversion -stage 4 (near Portion M)	31	31	08-Jan-24	15-Feb-24	06-Sep-23	13-Oct-23	-119	0%								
TL-1040	PCCW diversion-stage 5 (near the toilet and RCP)	23	23	08-Jan-24	02-Feb-24	06-Sep-23	04-Oct-23	-111	0%								
TL-1050	PCCW diversion-stage 6 (near the On Luk Min St playground)	31	31	08-Jan-24	15-Feb-24	06-Sep-23	13-Oct-23	-119	0%								
TL-1060	Abandon of existing cables of UUs	30	30	16-Feb-24	21-Mar-24	14-Oct-23	18-Nov-23	-119	0%								
Towngas/telecom																	
TL-3000	Towngas telecom diversion -stage 1 (after C5 to C8)	50	15	01-Aug-23 A	24-Jan-24	01-Aug-23	22-Sep-23	-129	70%								
TL-3010	HGC/HKBN/HKBNES diversion -stage 2 (after TTA)	49	15	01-Aug-23 A	24-Jan-24	01-Aug-23	22-Sep-23	-103	70%								
Stormwater Pumping Station (SWPS)																	
Statutory Submission and Design																	
INTS3-103	FS design (Stormwater pumping station)	268	141	08-May-23 A	02-Jul-24	08-May-23	02-May-24	11	47.39%								
INTS3-103-1	Submersible pump design (Stormwater pumping station)	268	141	08-May-23 A	02-Jul-24	08-May-23	02-May-24	11	47.39%								
INTS3-103-2	Scada design (Stormwater pumping station)	268	141	08-May-23 A	02-Jul-24	08-May-23	02-May-24	11	47.39%								
INTS3-103-4	Lighting and E&M for Stormwater Pumping Station	153	102	08-May-23 A	14-May-24	08-May-23	12-Mar-24	-36	33.33%								
INTS3-104	Flood alarm system design (Underpass)	196	69	08-May-23 A	03-Apr-24	08-May-23	30-Jan-24	-35	64.8%								
INTS3-104-1	Flood alarm system civil requirement (Underpass)	196	69	08-May-23 A	03-Apr-24	08-May-23	30-Jan-24	-35	64.8%								
INTS3-104-2	FS radio communication system (Underpass)	196	69	08-May-23 A	03-Apr-24	08-May-23	30-Jan-24	-35	64.8%								
INTS3-104-3	Submission and Approval of DDA to DSD&HyD (Underpass)	152	152	05-Apr-24	05-Oct-24	31-Jan-24	07-Aug-24	-35	0%								
INTS3-104-4	Lighting system and E&M (underpass)	153	26	08-May-23 A	06-Feb-24	08-May-23	07-Dec-23	-61	83.01%								
INTS3-200	Meeting with HyDs about the design of stormwater pumping station	72	9	06-Sep-23 A	16-Jan-24	06-Sep-23	16-Nov-23	-21	87.5%								





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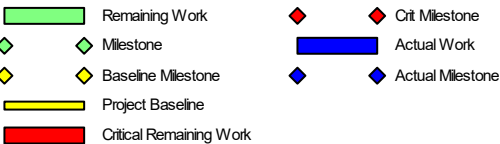
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OLMSP-101	Install steps	8	8	27-Jan-24	05-Feb-24	24-Oct-23	02-Nov-23	-190	0%								
OLMSP-101	Install transition and banks	18	18	06-Feb-24	29-Feb-24	02-Nov-23	23-Nov-23	-190	0%								
OLMSP-101	Install flat works	12	12	01-Mar-24	14-Mar-24	23-Nov-23	07-Dec-23	-190	0%								
OLMSP-101	All other remaining works (inspection and rectify defect)	6	6	15-Mar-24	21-Mar-24	07-Dec-23	14-Dec-23	-190	0%								
OLMSP-101	BS works (lighting installation by Kum Shing)	15	10	14-Dec-23 A	07-Feb-24	28-Nov-23	14-Dec-23	-156	33.33%								
Landscape Area																	
OLMSP-102	Construction of fence wall	33	33	08-Jan-24	17-Feb-24	06-Sep-23	16-Oct-23	-212	0%								
OLMSP-102	Backfilling for fence wall	12	12	19-Feb-24	02-Mar-24	17-Oct-23	31-Oct-23	-212	0%								
OLMSP-102	Construction of concrete access	27	27	04-Mar-24	08-Apr-24	01-Nov-23	01-Dec-23	-211	0%								
OLMSP-102	Irrigation works	27	27	04-Mar-24	08-Apr-24	01-Nov-23	01-Dec-23	-173	0%								
OLMSP-1020	Landscaping Softworks with acceptance by clients (S3)	11	11	09-Apr-24	20-Apr-24	02-Dec-23	14-Dec-23	-173	0%								
OLMSP-102	Establishment works	365	365	21-Apr-24	20-Apr-25	15-Dec-23	13-Dec-24	-216	0%								
OLMSP-103	Lamp post footing, drawpit and ducting for lamp post	28	28	04-Mar-24	09-Apr-24	01-Nov-23	02-Dec-23	-212	0%								
OLMSP-1030	BS works (lighting installation by Kum Shing)	10	10	10-Apr-24	20-Apr-24	04-Dec-23	14-Dec-23	-212	0%								
Ancillary Block & Service Block and other facility																	
Ancillary Block																	
OLMSP-124	BS work (Lighting, flushing/cleansing pump, plumbing, hose reel)	36	19	11-Oct-23 A	24-Feb-24	11-Oct-23	22-Nov-23	-168	47.22%								
OLMSP-1240	ABWF(connect to footing, late cast of internal tiles and E&M services, parapet and trench at roof and waterproof work)	12	20	25-Sep-23 A	30-Jan-24	25-Sep-23	10-Oct-23	-168	0%								
Service Block																	
OLMSP-1230	Construction of Service Block (Fabrication) including structural and ABWF	51	10	22-May-23 A	18-Jan-24	22-May-23	19-Sep-23	-188	80.39%								
OLMSP-123	BS work (Lighting, FS pump, plumbing, AC for switch room and call point)	36	3	28-Oct-23 A	03-Feb-24	03-Nov-23	14-Dec-23	-153	91.67%								
OLMSP-1230	ABWF(connect to footing, late cast of internal tiles and E&M services, parapet and trench at roof and waterproof work)	13	10	28-Oct-23 A	30-Jan-24	18-Oct-23	02-Nov-23	-152	23.08%								
OLMSP-1230	Works required by CLP at Meter room (meter board and lock for the door of meter room)	11	11	19-Jan-24	31-Jan-24	18-Oct-23	31-Oct-23	-188	0%								
Testing & Commissioning																	
OLMSP-1260	T&C (S3)	39	39	22-Apr-24	07-Jun-24	15-Dec-23	01-Feb-24	-212	0%								
OLMSP-1260	Submission of Form 501	14	14	08-Jan-24	23-Jan-24	11-Oct-23	27-Oct-23	-143	0%								
OLMSP-1270	FS inspection (S3)	39	39	22-Apr-24	07-Jun-24	15-Dec-23	01-Feb-24	-212	0%								
Works in Portion P																	
OLMSP-1050a	Retaining Wall FW10 (around 75m, 10 bays, 15d/bay, 2 team) and other facilities-Part 2	38	38	12-Apr-24	28-May-24	13-Dec-23	29-Jan-24	-110	0%								
Temporary Skateboard Park Scheme																	
OLMSP-2570	Operation of mini Skateboard Park	140	31	03-Jul-23 A	15-Feb-24	03-Jul-23	13-Dec-23	173	77.86%								
OLMSP-2580	Reinstatement of area of mini Skateboard Park for subsequent works	30	30	16-Feb-24	21-Mar-24	14-Dec-23	20-Jan-24	173	0%								
Reprovision of Public Toilet and Refuse Collection Point (S6)																	
PTRCP-100-1	Submission and approval of structural design for RCP and Public Toilet	602	34	11-Apr-23 A	19-Feb-24	11-Apr-23	16-Dec-23	-30	94.35%								
PTRCP-100-11	Submission and approval of E&M design for RCP and Public Toilet (Civil requirement, MVAC, Plumbing, Electrical)	602	34	11-Apr-23 A	19-Feb-24	11-Apr-23	16-Dec-23	-30	94.35%								
PTRCP-100-21	Submission and approval of UU and drainage design for RCP and Public Toilet	602	34	11-Apr-23 A	19-Feb-24	11-Apr-23	16-Dec-23	-30	94.35%								
PTRCP-100-31	Submission and approval of ABWF for RCP and Toilet	602	34	11-Apr-23 A	19-Feb-24	11-Apr-23	16-Dec-23	-30	94.35%								
PTRCP-100-41	Submission and approval of material submission for RCP and Public Toilet	85	33	06-Sep-23 A	17-Feb-24	06-Sep-23	16-Dec-23	-29	61.18%								
PTRCP-100-61	Submission and Consent for RCP and Toilet (ASD and FEHD)	34	34	20-Feb-24	02-Apr-24	18-Dec-23	29-Jan-24	-30	0%								
PTRCP-100-71	Procurement of builder works and E&M items	79	79	19-Feb-24	27-May-24	18-Dec-23	25-Mar-24	-29	0%								
PTRCP-1000	Prefabrication of Mc Unit	45	45	03-Apr-24	28-May-24	30-Jan-24	25-Mar-24	-30	0%								
Retaining Walls (FWs)																	
FW30, FW31, FW9 (at New Market and Skateboard Park)																	
OLMSP-1010e	Backfilling behind retaining wall	7	7	08-Jan-24	15-Jan-24	20-Sep-23	27-Sep-23	-180	0%								
FW29, FW,25, FW34 (Bet. Bridge Pier A3-06 and Depressed Road A at Portions C and F)																	
Structural Works																	
UTRA-2001	Retaining wall FW25 (28 bays)	135	117	18-Oct-23 A	01-Jun-24	15-Sep-23	29-Feb-24	-73	13.33%								



Project ID: RP07-7-MU12-2023

Three Months Rolling Programme (08 January 2024 to 30 April 2024)

Data Date: 08-Jan-24
Printed: 23-Jan-24 10:07
Layout: 3 MRP Layout
TASK filter: 3 Months
Lookahead.

Baseline Programme RP07 Accepted on 31 October 2023

Date	Revision	Ch...	Approved
08-Jan-24	Data Date		



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2023	2024							
										Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
Noise Barriers (NB) and Semi-Enclosure (SE)																		
Noise Barrier FLN-SE22 and FLN-SE21 (Portion J)																		
INTS2-2000	Preparation of Design for noise enclosure	51	3	08-May-23 A	10-Jan-24	08-May-23	07-Sep-23	-142	94.12%									
INTS2-2000a	Submission and approval of Design for noise enclosure	54	54	11-Jan-24	16-Mar-24	08-Sep-23	13-Nov-23	-142	0%									
INTS2-2000b	Fabrication of noise enclosure material	100	100	18-Mar-24	20-Jul-24	14-Nov-23	15-Mar-24	-142	0%									
Noise Barrier FLN-SE22 (Near Sha Tau Kok)																		
INTS2-1030	Noise Barrier Footing-Northbound	50	12	08-May-23 A	20-Jan-24	08-May-23	21-Oct-23	-149	76%									
INTS2-1030-1	Noise Barrier Footing-Central Median	49	49	26-Feb-24	26-Apr-24	27-Dec-23	26-Feb-24	-149	0%									
INTS2-1030-2	Noise Barrier Footing-Southbound	49	49	27-Apr-24	26-Jun-24	27-Feb-24	27-Apr-24	-149	0%									
Noise Barrier FLN-SE21 (Near Fanling)																		
INTS2-1030a	Noise Barrier Footing-Northbound	53	27	08-Jul-23 A	24-Feb-24	08-Jul-23	23-Dec-23	-149	49.06%									
INTS2-1030a	Noise Barrier Footing-Central Median	49	49	26-Feb-24	26-Apr-24	27-Dec-23	26-Feb-24	-149	0%									
INTS2-1030a	Noise Barrier Footing-Southbound	49	49	27-Apr-24	26-Jun-24	27-Feb-24	27-Apr-24	-149	0%									
U-trough 1-4																		
UT1-1000	U-trough 1 and near by road works and FW-18 (after Bored pile G-06)	50	50	15-Apr-24	14-Jun-24	17-Apr-24	18-Jun-24	24	0%									
UT3-1000	U-trough 3 and near by road works (after F4-01 H pile Northbank of Ng Tung River)	70	70	02-Mar-24	29-May-24	09-Feb-24	09-May-24	7	0%									

Remaining Work

Milestone

Baseline Milestone

Project Baseline

Critical Remaining Work

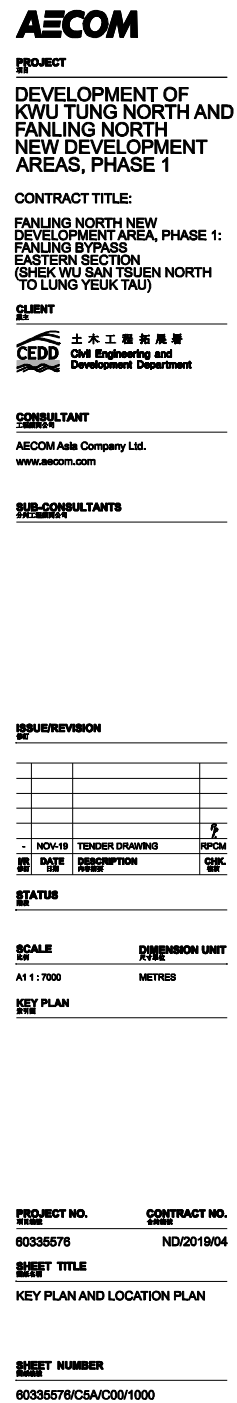
Crit Milestone

Actual Work

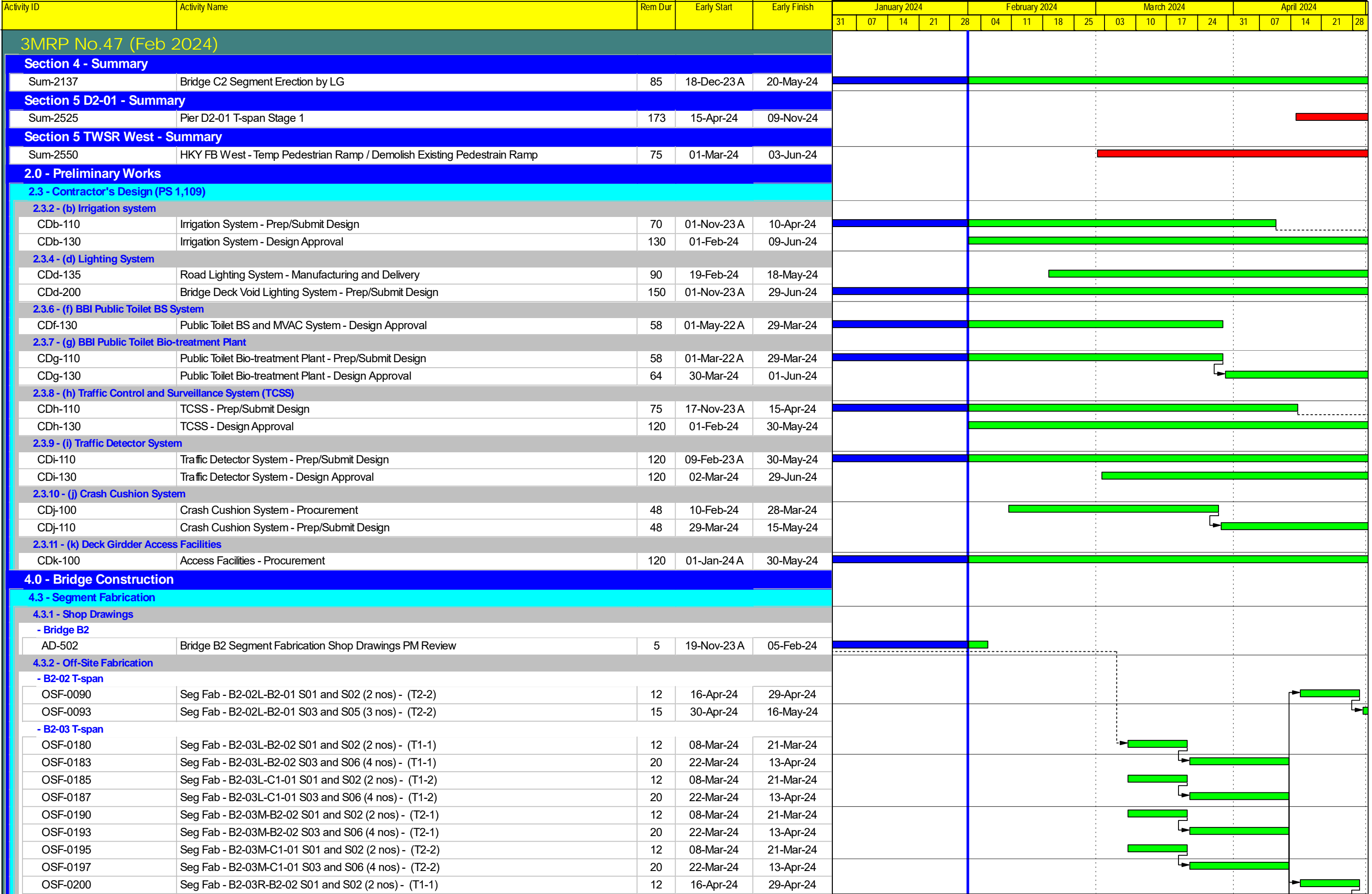
Actual Milestone

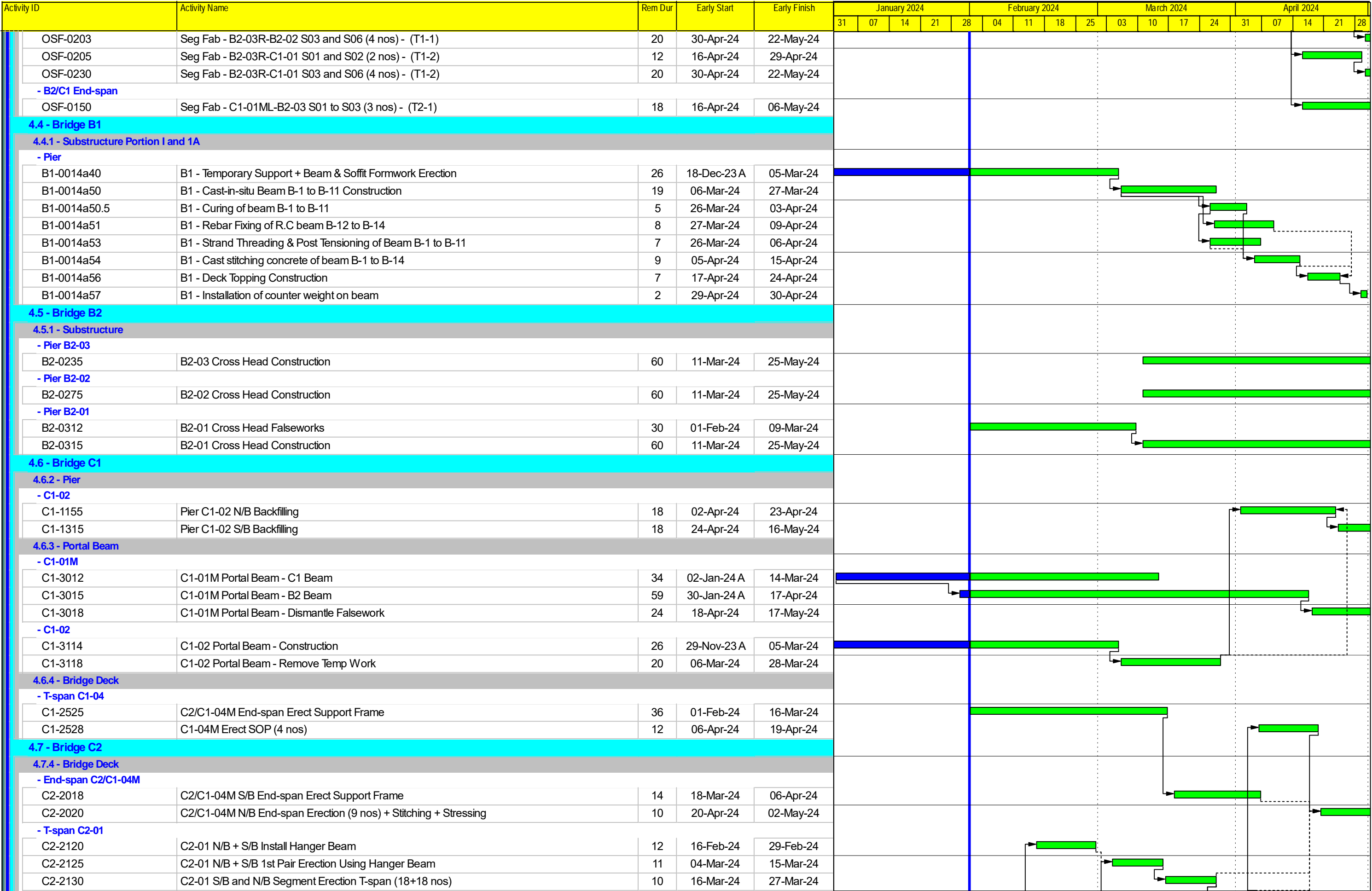
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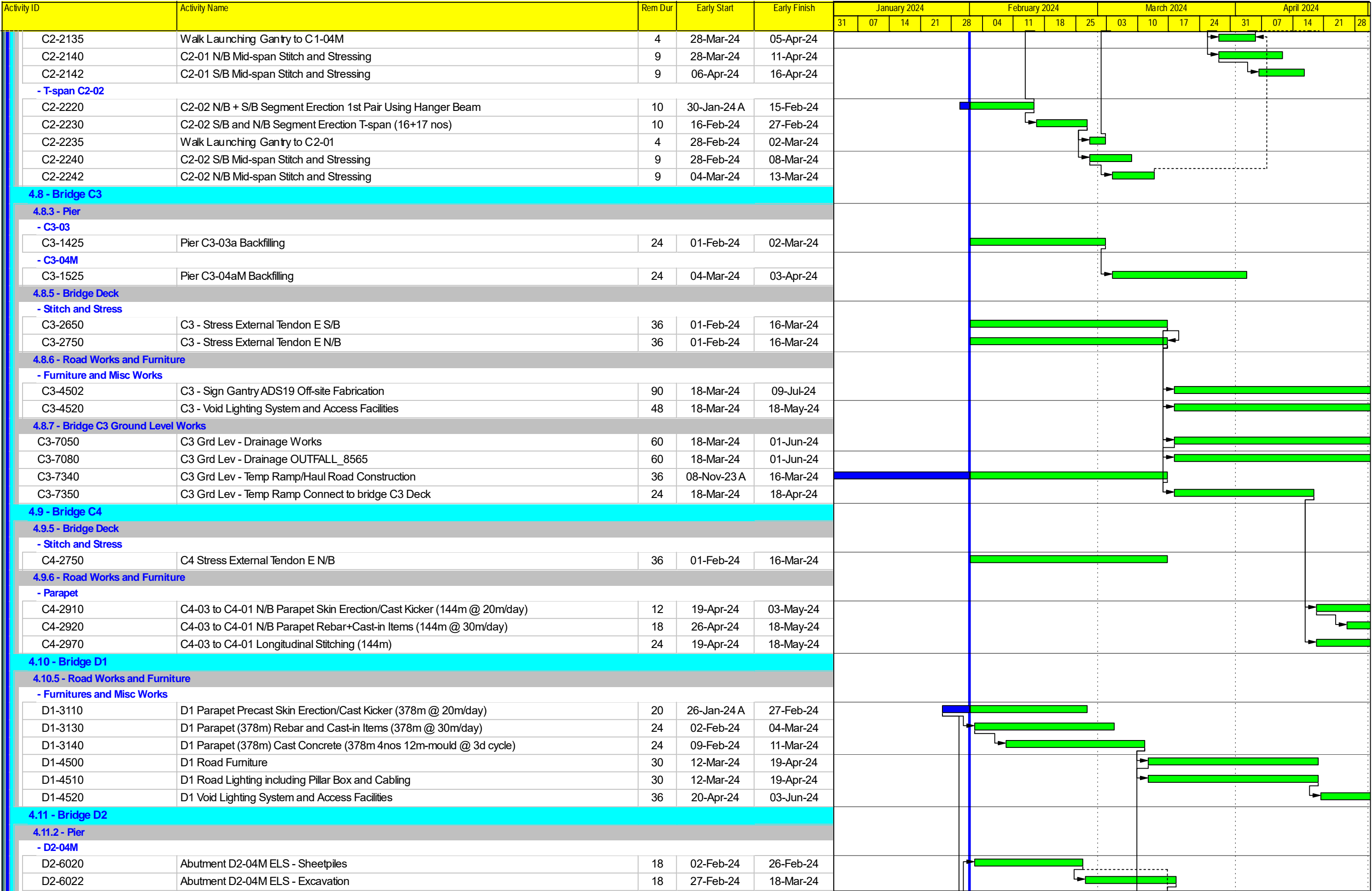
Baseline Programme RP07 Accepted on 31 October 2023			
Date	Revision	Ch...	Approved
08-Jan-24	Data Date		

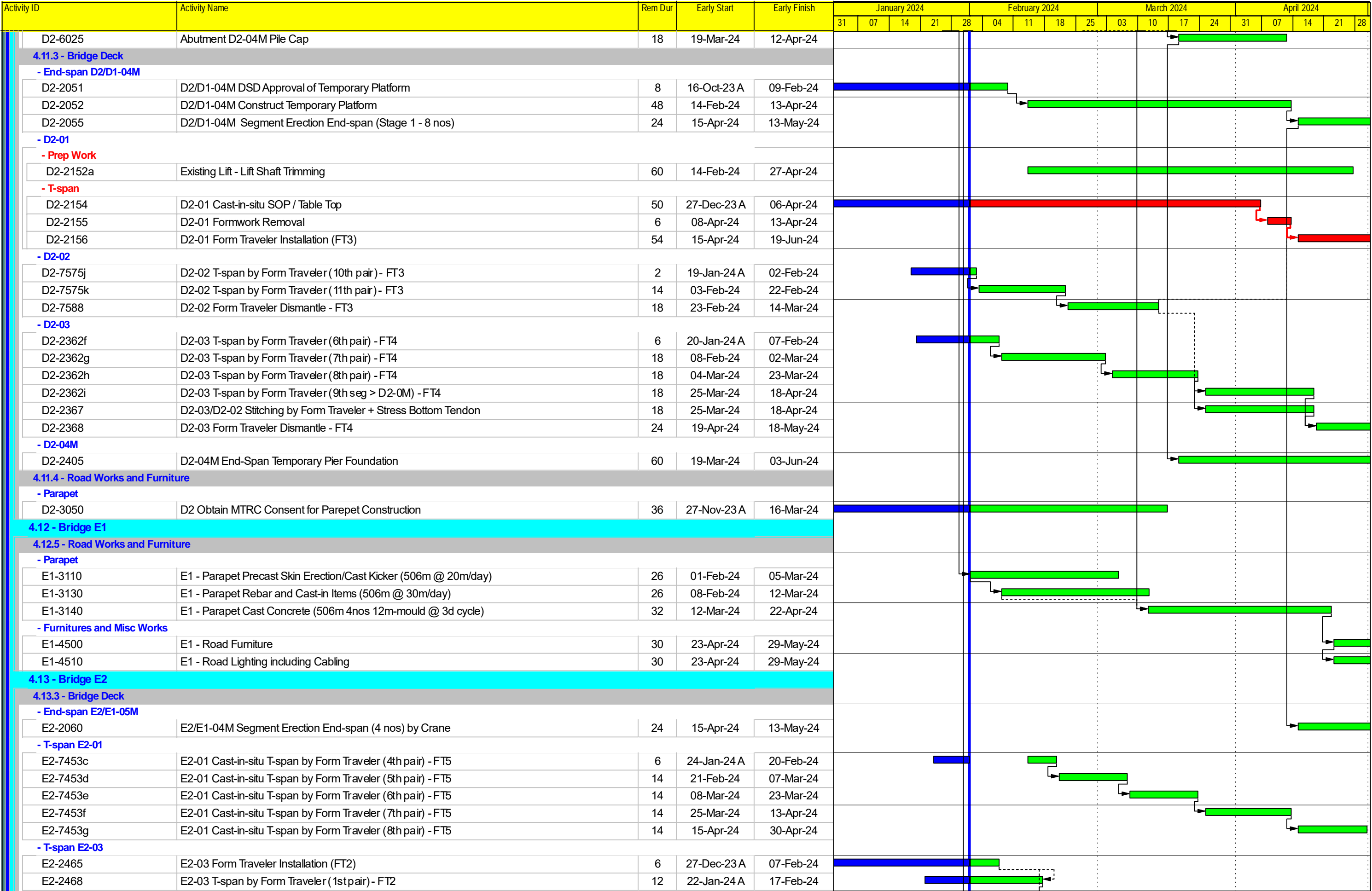


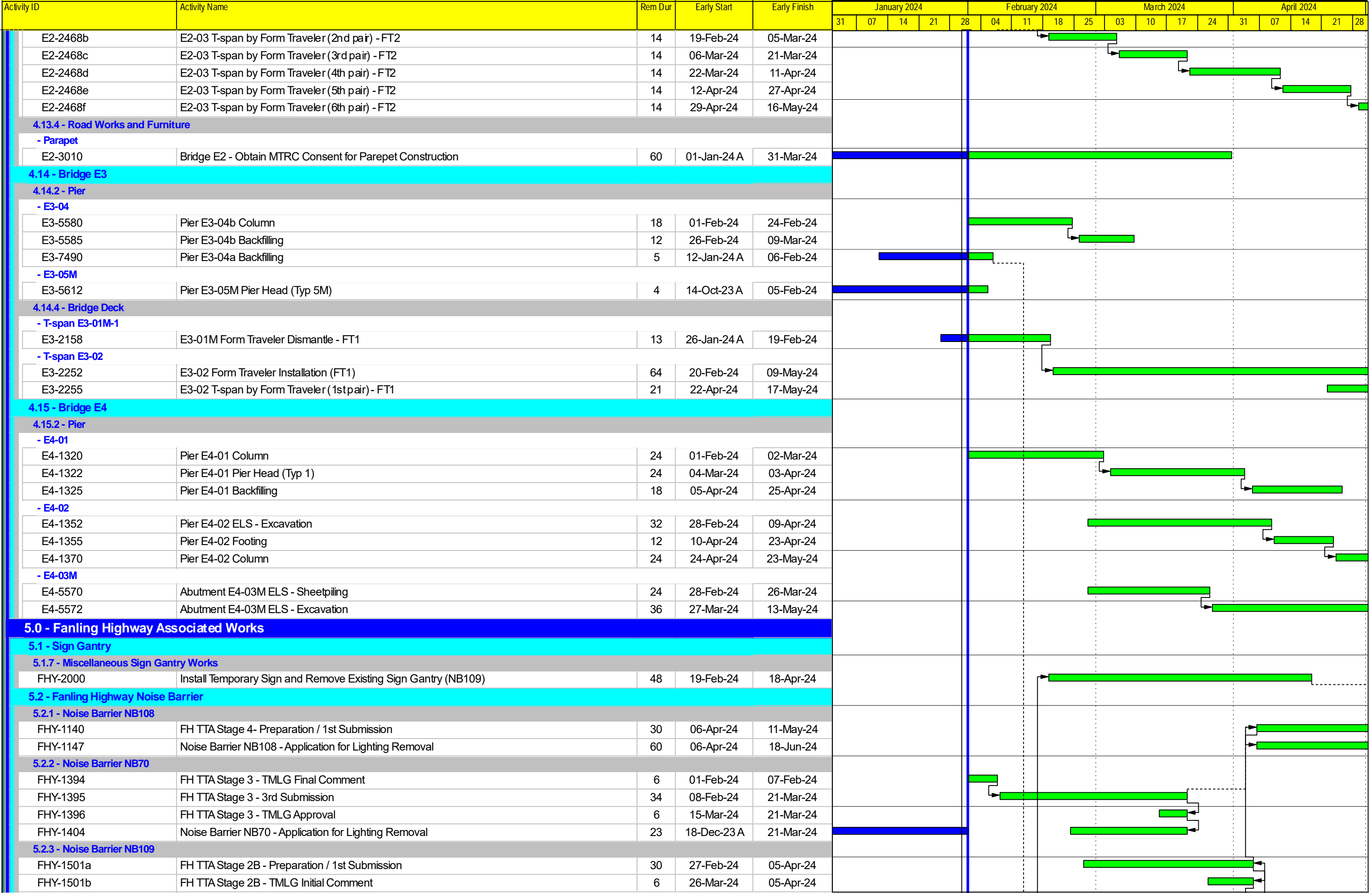
Construction Programme of ND/2019/05

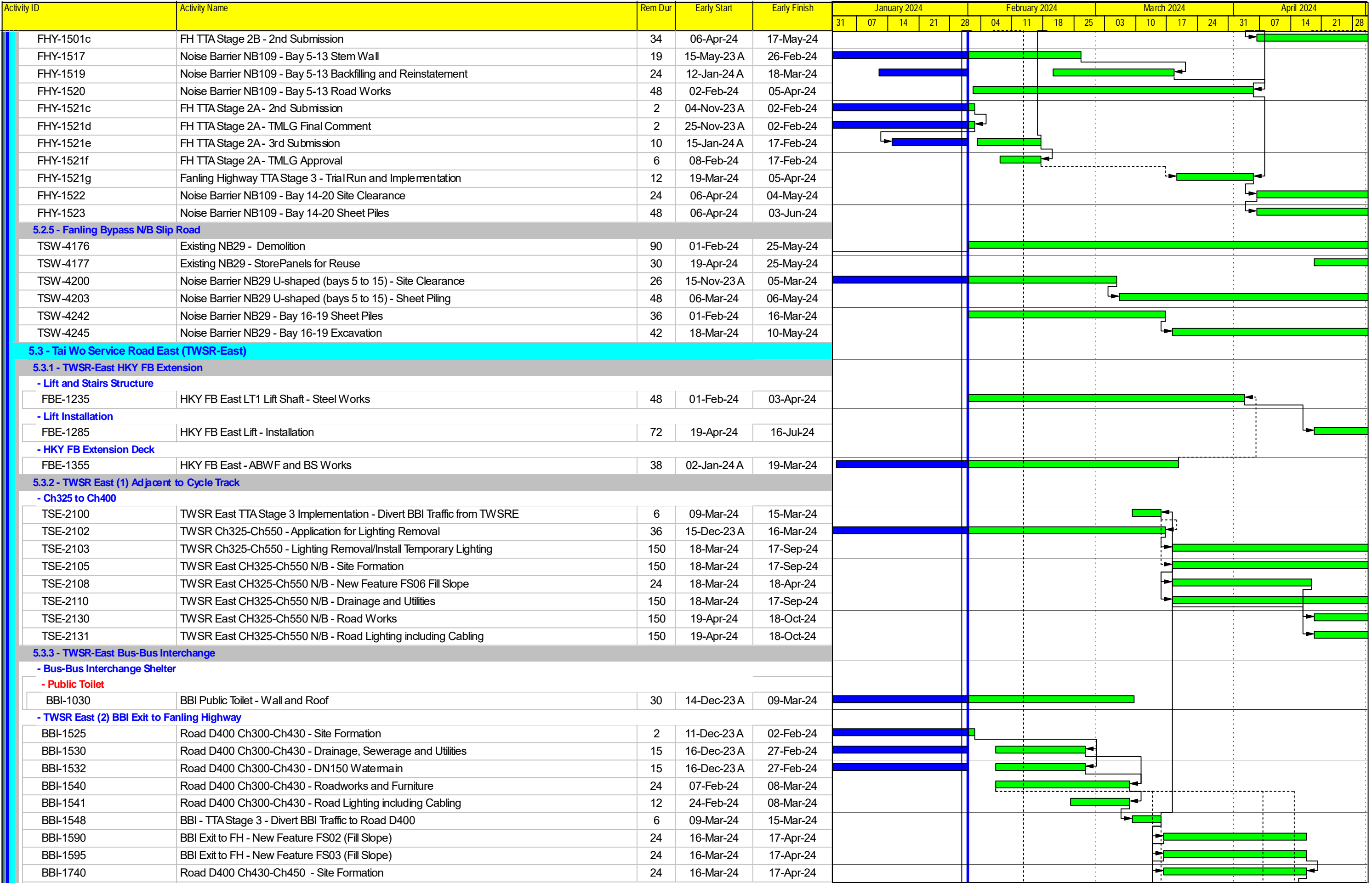


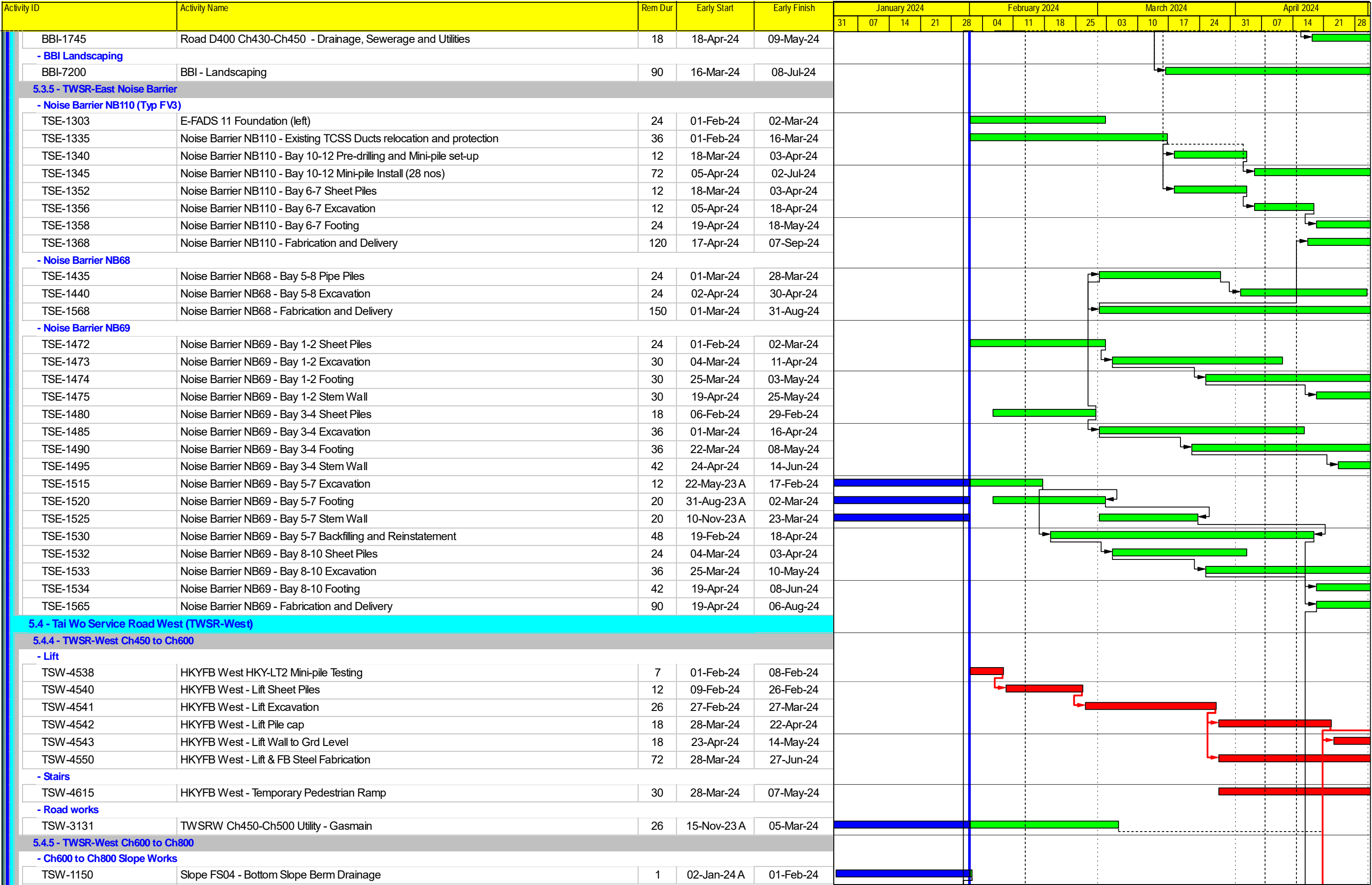


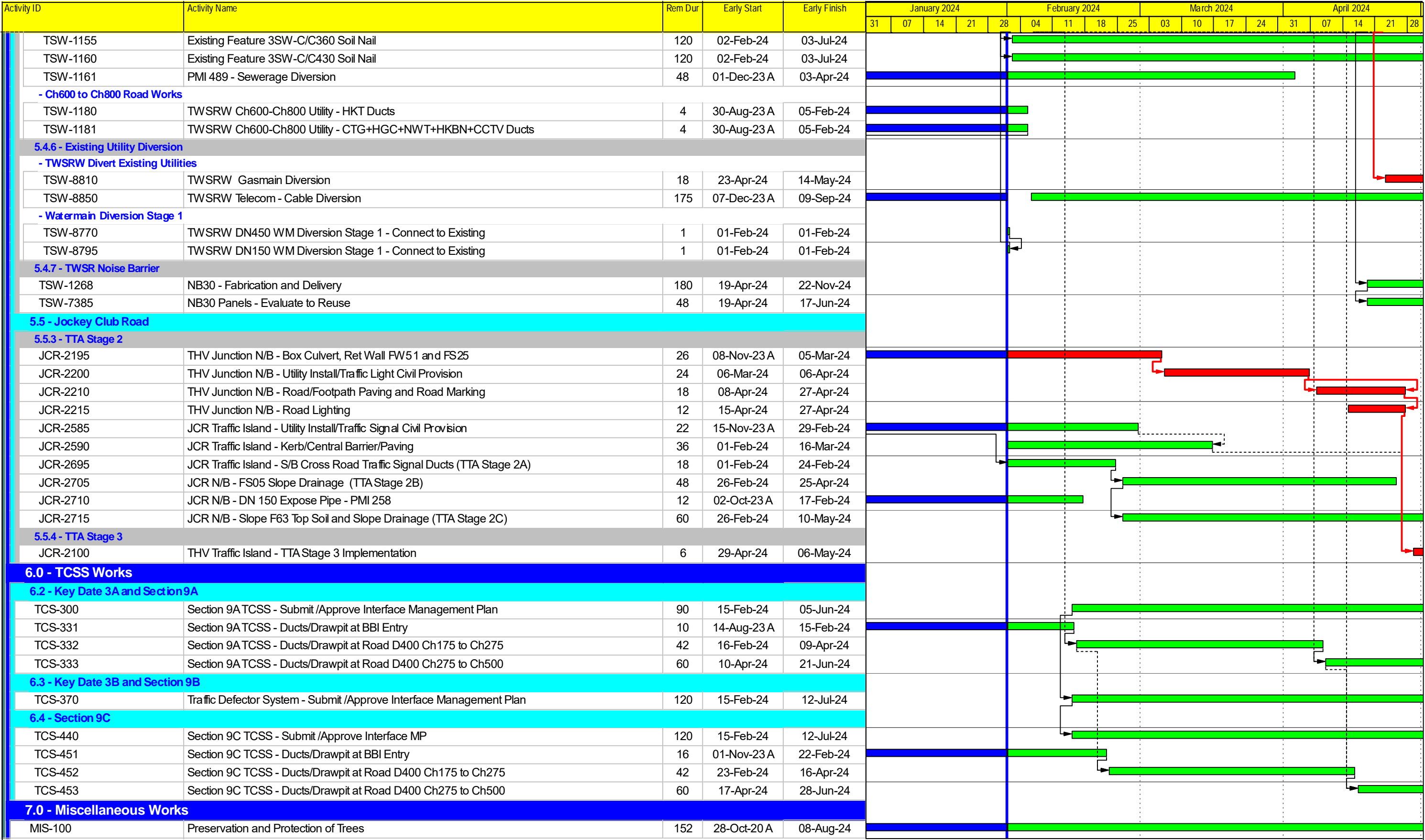


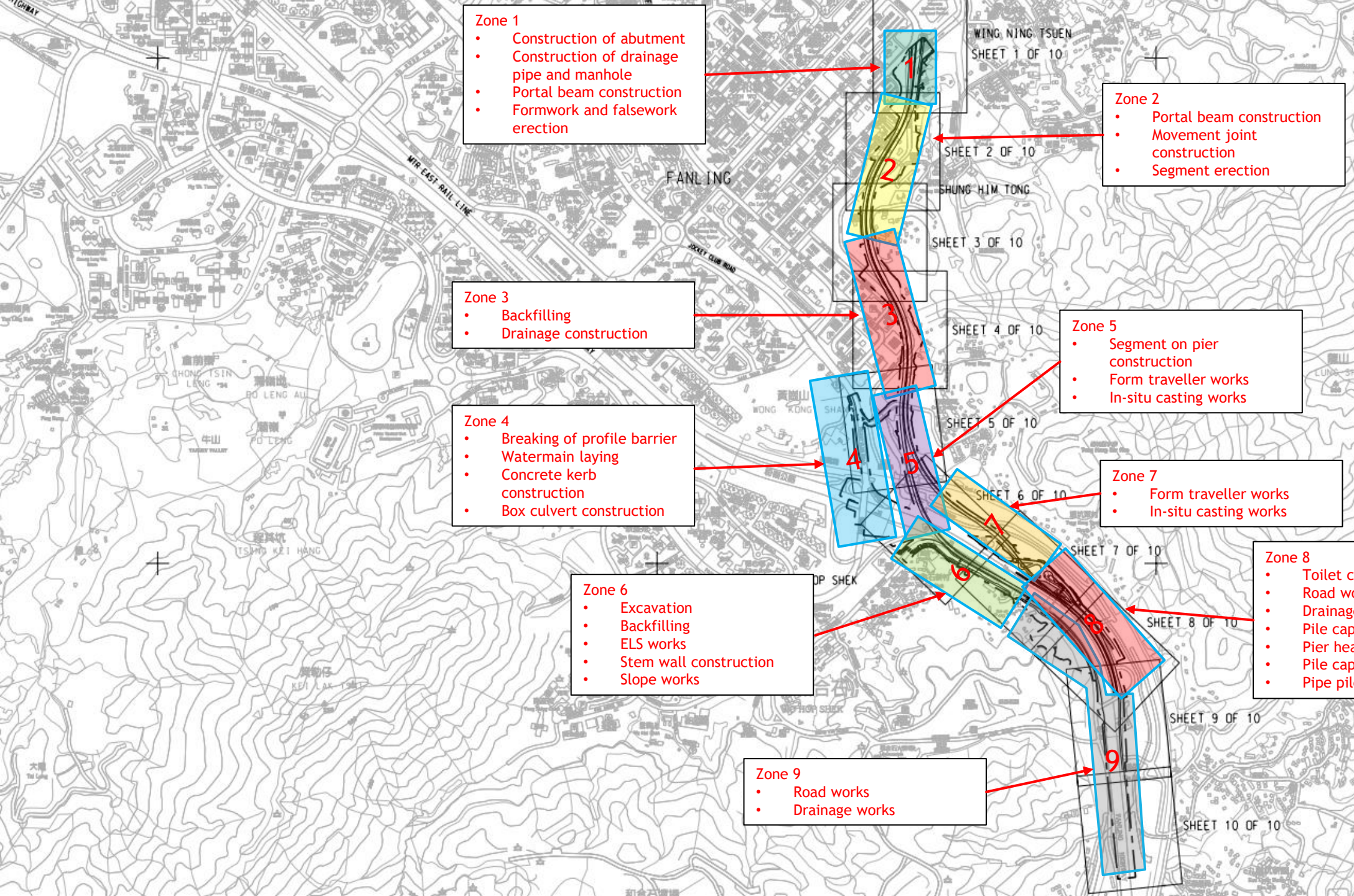












- Zone 1**
- Construction of abutment
 - Construction of drainage pipe and manhole
 - Portal beam construction
 - Formwork and falsework erection

- Zone 2**
- Portal beam construction
 - Movement joint construction
 - Segment erection

- Zone 3**
- Backfilling
 - Drainage construction

- Zone 5**
- Segment on pier construction
 - Form traveller works
 - In-situ casting works

- Zone 4**
- Breaking of profile barrier
 - Watermain laying
 - Concrete kerb construction
 - Box culvert construction

- Zone 7**
- Form traveller works
 - In-situ casting works

- Zone 6**
- Excavation
 - Backfilling
 - ELS works
 - Stem wall construction
 - Slope works

- Zone 8**
- Toilet construction
 - Road works
 - Drainage works
 - Pile cap construction
 - Pier head construction
 - Pile cap construction
 - Pipe pile wall construction

- Zone 9**
- Road works
 - Drainage works

CONSULTANT
AECOM Asia Company Ltd.
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ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK
1	JUN-19	TENDER DRAWING	RPCM

STATUS
RA

SCALE
1:1000

DIMENSION UNIT
METRES

PROJECT NO.
60335576

CONTRACT NO.
ND/2019/05

SHEET TITLE
KEY PLAN AND LOCATION PLAN

Construction Programme of ND/2019/07

Contract No. ND/2019/07 Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2024				
						Jan	Feb	Mar	Apr	May
Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works										
Project Commencement and Completion										
PCC1020	Completion Date	0.0	13-Jan-24	13-Jan-24*	0.0	◆ Completion Date				
Key Dates and Sectional Completion of the Works										
Contractual Key Dates										
KDS1000	KD1 - Completion of all works within Portion V of the Site necessary for the opening of partial Road L1	0.0	08-Jan-24	08-Jan-24	-108.0	◆ KD1 - Completion of all works within Portion V of the Site necessary for the opening of partial Road L1				
Planned Completed Key Dates										
KDS1005	Planned achievement of Key Date 1	0.0	02-Mar-24	02-Mar-24	-163.0			◆ Planned achievement of Key Date 1		
Contractual Sectional Completion of the Works										
KDS1200	Section 10- Completion of site formation and infrastructure works in Works Area E2	0.0		20-Feb-24*	0.0			◆ Section 10- Completion of site formation and infrastructure works in Works Area E2		
KDS1210	Section 11- Completion of site formation and infrastructure works in Works Area E3	0.0		08-Jan-24*	-17.5	◆ Section 11- Completion of site formation and infrastructure works in Works Area E3				
Planned Sectional Completion of the Works										
KDS1230	Planned completion of the Section 10 of the Works	0.0		16-Mar-24	-25.0				◆ Planned completion of the Section 10 of the Works	
KDS1240	Planned completion of the Section 11 of the Works	0.0		24-Jan-24	-34.5	◆ Planned completion of the Section 11 of the Works				
Preliminaries, Contractor's Design, Method Statement Submission and Approval										
General Submission										
PGS1260	Preparation and approval of TTA for Warer Main&Road Works along MSK Road/Wo Tai Street	90.0	15-Nov-23 A	25-Jan-24	-185.0		■ Preparation and approval of TTA for Warer Main&Road Works along MSK Road/Wo Tai Street			
Contractor's Design Submission and Approval										
Permanent Works Design										
PWD1040	Design for noise barrier panel	90.0	23-Nov-22 A	08-Jan-24	-105.0	■ Design for noise barrier panel				
PWD1045	Time risk allowance for Design for noise barrier panel	7.0	09-Jan-24	16-Jan-24	-105.0	■ Time risk allowance for Design for noise barrier panel				
Tendering and Procurement for Major Subcontractor										
Procurement for NB Post and Panel										
TDS1170-1	Place Order and Delivery for fabrication of NB steel posts	364.0	10-Aug-22 A	22-Jan-24	-176.0	■ Place Order and Delivery for fabrication of NB steel posts				
TDS1180-1	Fabrication and Delivery to site - NB62 steel post and panel for mock up (1st)	12.0	23-Jan-24	03-Feb-24	-176.0	■ Fabrication and Delivery to site - NB62 steel post and panel for mock up (1st)				
TDS1180-2	Fabrication and Delivery to site - NB63 post and panel (Bay18 - Bay21)	36.0	28-Feb-24	03-Apr-24	-129.0	■ Fabrication and Delivery to site - NB63 post and panel (Bay18 - Bay21)				
TDS1180-3	Fabrication and Delivery to site - NB62 post and panel (remaining)	24.0	04-Feb-24	27-Feb-24	-129.0	■ Fabrication and Delivery to site - NB62 post and panel (remaining)				
TDS1180-4	Fabrication and Delivery to site - NB63 post and panel (Bay13 - Bay17)	36.0	04-Apr-24	09-May-24	-89.0	■ Fabrication and Delivery to site - NB63 post and panel (Bay13 - Bay17)				
Section 1- Site Formation and Infrastructure Works in Area A										
Site Formation (Portion I- Area A 11042m2)										
Remaining Site Formation Works after trees felled in FL-G14.1 & FL-G14.2										
S1-SF1185	Removal of temporary works, haul road and temporary accesses (Access for HD contractor, after Road L1 - P	30.0	23-Jan-24	29-Feb-24	38.0					
S1-SF1190	Construction of open channel (45m) (CT71)	28.0	01-Mar-24	06-Apr-24	161.0					
Site Formation (Portion II- Area A 21900m2)										
Site Formation Works in South Part of Portion II										
S1-SF1417	Site formation works part 3 (12577m3) and Removal of temporary works, haul road and temporary accesses	78.0	16-May-23 A	08-Mar-24	-37.0	■ Site formation works part 3 (12577m3) and Removal of temporary works, haul road and temporary accesses				
S1-SF1420	Construction of open channel (180m)	60.0	09-Mar-24	24-May-24	122.0					
Site Formation (Portion III- Area A 4900m2)										
S1-SF1546	Removal of existing feature 3SW-A/F85	15.0	08-Jan-24	24-Jan-24	172.0	■ Removal of existing feature 3SW-A/F85				
Site Formation (Portion IV- Area A 3800m2)										
S1-SF1870	Site formation works (2391m3) (after site formation in Area D)	30.0	08-Jan-24	14-Feb-24	160.0	■ Site formation works (2391m3) (after site formation in Area D)				
Slope Works										
S1-SW1010	Forming new slope feature FS06 and construction of slope drainage	42.0	15-Feb-24	08-Apr-24	160.0					
Box Culvert BC3 and Outfall 10										
Box Culvert BC3 (CH264 to CH282.799) and Outfall 10										
Revised Outfall										
S1-BC1340	Outfall - Reinstate over-cut portions of Outfall	24.0	08-Jan-24	03-Feb-24	187.0	■ Outfall - Reinstate over-cut portions of Outfall				
Bay 22 to 24										
S1-BC1105	Excavation and construction of the box culvert base slab Bay 22	10.0	23-Jan-24	02-Feb-24	-4.0	■ Excavation and construction of the box culvert base slab Bay 22				
S1-BC1110	Construction of the box culvert side wall and top slab Bay 22	30.0	03-Feb-24	12-Mar-24	-4.0	■ Construction of the box culvert side wall and top slab Bay 22				
S1-BC1180	Laying of geotextile filter, grade 200 rockfill, polythene sheet	10.0	06-Jan-24 A	10-Jan-24	-4.0	■ Laying of geotextile filter, grade 200 rockfill, polythene sheet				
S1-BC1190	Concreting for the blinding layer	10.0	11-Jan-24	22-Jan-24	-4.0	■ Concreting for the blinding layer				
S1-BC1200-1	Construction of the base slab box culvert Bay 23 & Bay 24	20.0	03-Feb-24	29-Feb-24	6.0	■ Construction of the base slab box culvert Bay 23 & Bay 24				
S1-BC1210-1	Construction of wall and top slab for box culvert Bay 23	30.0	13-Mar-24	20-Apr-24	-4.0	■ Construction of wall and top slab for box cu				
Drainage, Sewerage, Waterworks and Road Works										
Along Ma Sik Road										
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary										
S1-CS1240	Implement TTA	1.0	05-Feb-24	05-Feb-24	-161.0	■ Implement TTA				
S1-CS1260	UU detection and trial pit	10.0	06-Feb-24	20-Feb-24	-161.0	■ UU detection and trial pit				
S1-CS1270	Utility works by others	21.0	21-Feb-24	15-Mar-24	-161.0	■ Utility works by others				
S1-CS1293	Fresh water main works (10m) (In dry season)	21.0	21-Feb-24	15-Mar-24	-161.0	■ Fresh water main works (10m) (In dry season)				
S1-CS1295	Flushing water main works (10m) (In dry season)	21.0	21-Feb-24	15-Mar-24	-161.0	■ Flushing water main works (10m) (In dry season)				
S1-CS1300	Road pavement and road marking	12.0	16-Mar-24	02-Apr-24	-161.0	■ Road pavement and road marking				
S1-CS1305	Street furniture, road lighting and signage installation	7.0	03-Apr-24	11-Apr-24	-161.0	■ Street furniture, road lighting and signage installation				
Modification of Signalized Junction at Ma Sik Road and Wo Tai Street										
S1-CS2180	Construction of Footpath near Wing Fai Centre(Including draw pit)	21.0	08-Sep-23 A	16-Jan-24	-161.0	■ Construction of Footpath near Wing Fai Centre(Including draw pit)				
S1-CS2190	Construction of Footpath near Belair Monte(Including draw pit)	21.0	18-Aug-23 A	13-Jan-24	-161.0	■ Construction of Footpath near Belair Monte(Including draw pit)				
S1-CS2220	Construction of Traffic Island at MSR (Eastern, Including draw pit)	14.0	07-Oct-23 A	24-Jan-24	-161.0	■ Construction of Traffic Island at MSR (Eastern, Including draw pit)				
S1-CS2230	Construction of Traffic Island at MSR (Western, Including draw pit)	14.0	10-Oct-23 A	03-Feb-24	-161.0	■ Construction of Traffic Island at MSR (Western, Including draw pit)				
Along Proposed Cycletrack and Footpath										
Works in Portion I										
Works in Portion I CT73 (Ch400 to Ch649)										
S1-CS1472	Irrigation system (CT73 Ch400 to Ch649 total 249m)	85.0	08-Jan-24	23-Apr-24	-40.0	■ Irrigation system (CT73 Ch400 to C				
S1-CS1475	U-Channel along the Cycletrack(CT73 Ch400 to Ch649 total 249m)	85.0	08-Jan-24	23-Apr-24	-35.0	■ U-Channel along the Cycletrack(CT				
S1-CS1480	Construction of cycle track and footpath (249m)	40.0	06-Apr-24	24-May-24	5.0					
Works in Portion I CT74										

■ Actual Work

■ Remaining Work

■ Critical Remaining Work

◆ Milestone

RB

中國路橋工程有限責任公司

CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Jan-24)

Page : 1 of 3

Date	Revision	Checked	Approved
08-Jan-24	RDWPD	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	2024				
						Jan	Feb	Mar	Apr	May
S1-CS1489	U-Channel along the Cycletrack (CT74 Ch100 to Ch281 total 181m)	80.0	27-Mar-24	06-Jul-24	-35.0					
S1-CS1493	Fresh water main works (CT74 Ch100 to Ch281 total 181m)	80.0	08-Jan-24	17-Apr-24	35.0					
S1-CS1495	Flushing water main works (CT74 Ch100 to Ch281 total 181m)	80.0	08-Jan-24	17-Apr-24	35.0					
Works in Portion I CT73 (Ch100 to Ch400)										
S1-CS1477	Drainage work (MNH_FL5.34 to MNH_FL5.31 232m) (Access for HD contractor, after Road L1 - P600 complet	29.0	23-Jan-24	28-Feb-24	68.0					
S1-CS1477-2	Drainage work (MNH_FL5.34 to MNH_FL5.31 232m) (Access for HD contractor, after Road L1 - P600 complet	29.0	01-Mar-24	08-Apr-24	38.0					
S1-CS1483	Fresh water main works (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	18-Jun-24	35.0					
S1-CS1485	Flushing water main works (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	18-Jun-24	35.0					
Works in Portion II CT71 (Ch100 to Ch369.376)										
S1-CS1520	Drainage work (MNH_FL5.29 to MNH_FL5.26 229m) After box culvert back filling Bay1 to Bay22	85.0	09-Jan-23 A	09-Feb-24	84.0					
S1-CS1530	Fresh water main works (269m)	85.0	10-Jul-23 A	01-Jun-24	52.0					
S1-CS1540	Flushing water main works (269m)	85.0	10-Jul-23 A	01-Jun-24	52.0					
Works in Portion III CT76 (Ch100 to Ch298.277)										
Sewerage										
S1-CS1820-3	CE149 - Sewerage DN600 - Construction of permanent manhole FMH_FL1.19	48.0	13-Nov-23 A	19-Apr-24	-8.0					
S1-CS1820-4	CE149 - Sewerage DN600 - Removal of sheetpiles and backfilling at FMH_FL1.19	12.0	15-Feb-24	28-Feb-24	-13.0					
S1-CS1820-5	CE149 - Sewerage DN600 - Construction of permanent manhole FMH_FL1.19A	48.0	02-Dec-23 A	05-Apr-24	-8.0					
S1-CS1820-6	CE149 - Sewerage DN600 - Removal of sheetpiles and backfilling at FMH_FL1.19A	12.0	06-Apr-24	19-Apr-24	-8.0					
Remaining Works (next to Portion V - approx 64m)										
S1-CS1575-1	Drainage work (SMH_FL2005 to SMH_FL2008 Remaining 64m) (CE027 Original:1nos Manhole)	33.0	29-Feb-24	11-Apr-24	-13.0					
Remaining Works (after KD1)										
S1-CS1576-1	Diversion the entry path to One Innovale	18.0	31-Jan-24	23-Feb-24	31.0					
S1-CS1576-2	Installation of sheet piles	14.0	13-Nov-23 A	26-Feb-24	31.0					
S1-CS1576-3	Excavation and installation of lateral support	14.0	27-Feb-24	13-Mar-24	31.0					
S1-CS1576-4	Laying of DN 1500 pipe(SMH_FL2007 to SMH_FL2008)	10.0	14-Mar-24	25-Mar-24	31.0					
S1-CS1576-5	CCTV inspection, air test and water test	14.0	26-Mar-24	15-Apr-24	31.0					
S1-CS1590-2	Fresh water main works (134m)	45.0	27-Dec-23 A	23-Jul-24	17.0					
S1-CS1600-2	Flushing water main works (134m)	45.0	27-Dec-23 A	23-Jul-24	17.0					
Section 4- Site Formation and Infrastructure Works in Area D										
S4-SF1125	Construction of open channel (257m)	70.0	08-Jan-24	05-Apr-24	492.0					
S4-SF1140	Erection of chain link fence (382m)	50.0	08-Jan-24	08-Mar-24	64.0					
Section 5- Site Formation and Infrastructure Works in Area E and Remainder of the Works										
Road L1										
Road L1 in Portion V (P600 CH100 to CH194)										
S1-CS2262	Construction of Steel pole, mini draw pit and duct	10.0	27-Nov-23 A	09-Jan-24	-154.0					
S1-CS2270	Cable laying by EMSD	28.0	04-Dec-23 A	15-Jan-24	-151.0					
S1-CS2275	Road Commissioning&Traffic sign changeover	21.0	23-Dec-23 A	23-Jan-24	-151.0					
S5-RD1360	Construction of irrigation system (184m)	21.0	08-Jan-24	31-Jan-24	-131.0					
S5-RD1390	Construction of planters	24.0	01-Feb-24	02-Mar-24	-131.0					
S5-RD1395	Construction of road pavement works	28.0	22-Dec-23 A	15-Jan-24	-157.0					
S5-RD1400	Construction of cycle track and footpath	24.0	30-Dec-23 A	30-Jan-24	-157.0					
S5-RD1420	Street furniture, road marking and road lighting	14.0	15-Nov-23 A	22-Jan-24	-157.0					
S5-RD1440	Planned achievement of Key Date 1	0.0		02-Mar-24	-131.0					
Road L1 in Portion IV (P600 CH194 to CH393, P700 CH100 to CH175)										
S5-RD1185	Construction of irrigation system (489m)	70.0	08-Jan-24	05-Apr-24	-142.0					
S5-RD1200	Fresh water main works (489m)	70.0	23-Feb-23 A	18-Jan-24	-12.0					
S5-RD1210	Flushing water main works (489m)	70.0	23-Feb-23 A	18-Jan-24	-12.0					
S5-RD1240	Construction of cycle track and footpath	38.0	06-Apr-24	22-May-24	11.0					
Road L2										
S5-RD1500	Construction of drainage works (13nos manholes 320m)	80.0	13-Dec-22 A	08-Jan-24	-73.0					
S5-RD1505	Construction of irrigation system (298m)	70.0	06-Apr-24	29-Jun-24	-142.0					
S5-RD1535	Construction of planters	30.0	27-Feb-24	06-Apr-24	-72.0					
Noise Barrier NB62										
S5-NB1060	Excavation and construction of base slabs and wall stems (Bay 1 - Bay 6)	70.0	14-Nov-22 A	24-Jan-24	-157.0					
S5-NB1080	Installation of noise barrier steel posts	60.0	14-Mar-24	29-May-24	-145.0					
S5-NB1080-1	Installation of noise barrier steel posts and panel for mock up	30.0	05-Feb-24	13-Mar-24	-145.0					
Noise Barrier NB63										
Noise Barrier NB63 (Bay 18 to Bay 21)										
S1-NB1275	Excavation and construction of base slab (Bay 18 - Bay 21)	42.0	09-Aug-23 A	09-Mar-24	-84.0					
S1-NB1280	Construction of wall stem (Bay 18 - Bay 21)	30.0	05-Apr-24	10-May-24	-102.0					
Noise Barrier NB63 (Bay 13 to Bay 17)										
S1-NB1200	Installation of sheet piles (Bay 13 - Bay 17)	50.0	08-Nov-23 A	05-Feb-24	-133.0					
S1-NB1210	Excavation and installation of lateral support (Bay13 - Bay17)	50.0	13-Nov-23 A	08-Mar-24	-93.0					
S1-NB1220	Construction of base slab (Bay 13 - Bay 17)	30.0	11-Mar-24	18-Apr-24	-84.0					
Noise Barrier NB63 (Bay 7 to Bay 12)										
S1-NB1205	Installation of sheet piles (Bay 7 - Bay 12)	40.0	13-Jan-24	02-Mar-24	-133.0					
S1-NB1215	Excavation and installation of lateral support (Bay 7 - Bay 12)	40.0	09-Mar-24	29-Apr-24	-93.0					
Noise Barrier NB63 (Bay 1 to Bay 6)										
S1-NB1050	Installation of Mini Piles Bay 1 to Bay 6 (32 nos) (CSD) (after trees transplanted) (Original:36nos H-pile, 72days)	90.0	10-May-23 A	08-Mar-24	-148.0					
S1-NB1100	Installation of sheet piles	60.0	09-Mar-24	24-May-24	-148.0					
Section 6- Completion of Preservation And Protection Of Existing Trees										
S6-CS1000	Preservation and protection of trees	1146.0	31-Aug-20 A	05-Dec-24	-40.0					
Section 7- Completion of All Landscape Softworks										
S7-CS1000	Landscape softwork concurrent with other civil works	246.0	31-Jan-24	28-Nov-24	-57.0					
Section 10- Site Formation and Infrastructure Works in Area E2										
Footpath L1 in Portion I (P700 CH175 to CH245)										

RB

中國路橋工程有限責任公司

CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Jan-24)

Page : 2 of 3

Date

08-Jan-24

Revision

RDWPD

Checked






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Approved

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	2024				
						Jan	Feb	Mar	Apr	May
S10-NB1120	Planned completion of the Section 10 of the Works	0.0		16-Mar-24	-22.0			◆ Planned completion of the Section 10 of the Works		
S5-RD1072	Utility service by others	39.0	01-Sep-23 A	10-Jan-24	-22.0	■ Utility service by others				
S5-RD1100	Construction of footpath	30.5	07-Feb-24	16-Mar-24	-22.0		■ Construction of footpath			
S5-RD1120	Installation of road lighting	45.0	11-Jan-24	06-Mar-24	-22.0	■ Installation of road lighting				
Section 11- Site Formation and Infrastructure Works in Area E3		41.5	22-Dec-23 A	24-Jan-24	-26.5					
Junction of Road L1&L2		41.5	22-Dec-23 A	24-Jan-24	-26.5					
S1-NB1395	Construction of road pavement works	35.0	22-Dec-23 A	23-Jan-24	-26.5	■ Construction of road pavement works				
S11-NB1120	Construction of street furniture, road marking	10.5	30-Dec-23 A	24-Jan-24	-26.5	■ Construction of street furniture, road marking				
S11-NB1130	Planned completion of the Section 11 of the Works	0.0		24-Jan-24	-26.5		◆ Planned completion of the Section 11 of the Works			

Portion	Legend
I	
II	
III	
IV	
V	

PORTION II

- C&D waste disposal
- Construction of box culvert
- Filling works
- Waterworks
- Drainage works




PORTION I

- C&D waste disposal
- Drainage works
- Road works
- Waterworks




PORTION IV

- Drainage works
- Sewerage works
- C&D waste disposal
- Filling works
- Construction of site haul road
- Construction of noise barrier
- Road works
- Waterworks




PORTION V

- C&D waste disposal
- Construction of noise barrier
- Construction of site haul road
- Road works



PORTION III

- Drainage works
- Sewerage works



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: <u>6.1</u> ^[2]	SYR-IS1: <u>6.0</u> ^[2]
SS in mg/L (depth average) ^[1]	SYR-IS1: <u>75.6</u> or 120% of upstream control station, whichever is higher ^[3]	SYR-IS1: <u>83.1</u> or 130% of upstream control station, whichever is higher ^[3]
Turbidity in NTU (depth average) ^[1]	SYR-IS1: <u>48.2</u> or 120% of upstream control station, whichever is higher ^[3]	SYR-IS1: <u>50.9</u> or 130% of upstream control station, whichever is higher ^[3]
Arsenic in µg/L (depth average) ^[2]	SYR-IS1: <u>5.4</u> 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: <u>5.8</u> ^[2] SHST-IS2: <u>7.0</u> ^[2] MWR-IS3: <u>8.6</u> ^[2]	NTR-IS1: <u>5.7</u> ^[2] SHST-IS2: <u>6.8</u> ^[2] MWR-IS3: <u>8.5</u> ^[2]
SS in mg/L (depth average) ^[1]	NTR-IS1: <u>8.9</u> SHST-IS2: <u>4.0</u> MWR-IS3: <u>14.0</u> or 120% of upstream control station, whichever is higher ^[3]	NTR-IS1: <u>9.0</u> SHST-IS2: <u>4.0</u> MWR-IS3: <u>14.4</u> or 130% of upstream control station, whichever is higher ^[3]
Turbidity in NTU (depth average) ^[1]	NTR-IS1: <u>6.0</u> SHST-IS2: <u>4.4</u> MWR-IS3: <u>10.1</u> or 120% of upstream control station, whichever is higher ^[3]	NTR-IS1: <u>6.1</u> SHST-IS2: <u>4.7</u> MWR-IS3: <u>11.1</u> 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/m³ - 80% of 11.7ng/m ³ – the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented)	11.7ng/m³ - 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 CH ₄ 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 – January

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	591	422
Mean abundance of <i>Ardeola bacchus</i>	9	6
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 – January

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	21	15
Mean abundance of <i>Ardeola bacchus</i>	7	5
*Large waterbirds: <i>Ardea alba</i> , <i>Ardea cinerea</i> , <i>Ardea intermedia</i> , <i>Egretta eulophotes</i> , <i>Egretta garzetta</i> and <i>Phalacrocorax carbo</i>		

Table B-8.3 Action and Limit Levels of Declines in the Seasonal Non-aquatic Fauna (Herpetofauna, Butterfly and Odonates) in Ecologically Sensitive Habitats – January

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of herpetofauna	T1	NA	1
	T3	NA	NA
	T4	NA	NA
	T5	NA	1
	T6	NA	NA
Monthly species richness of butterflies	T1	2	1
	T3	NA	NA
	T4	NA	1
	T5	NA	NA
	T6	2	1
Month species richness of native species of odonates	T1	NA	1
	T3	2	1
	T4	NA	NA
	T5	NA	1
	T6	NA	1

Table B-8.4 Action and Limit Levels of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats – January

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**

TEST REPORT

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

Test Report No.:	39318
Date of Issue:	2023-11-13
Date Received:	2023-11-11
Date Tested:	2023-11-11
Date Completed:	2023-11-13
Next Due Date:	2024-01-12

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)	1.164
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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:	11-Nov-23	11-Nov-23
Location:	Wellab Office (Calibration Room)	

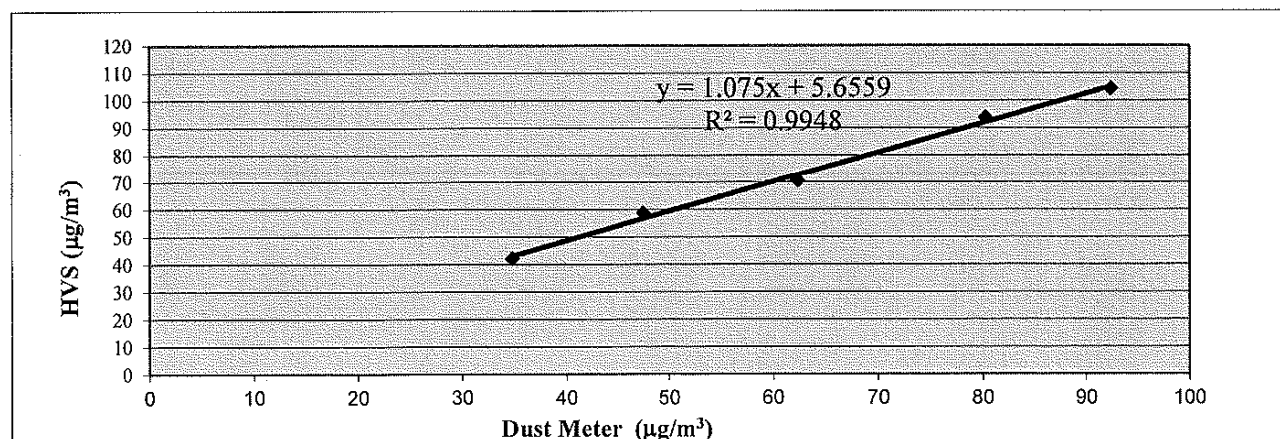
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	35	42
2	48	59
3	62	71
4	80	94
5	92	104
Average	63.5	73.9

By Linear Regression of Y on X
Slope, mw = 1.0750 Intercept, bw = 5.6559
Correlation coefficient* = 0.9974

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	73.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	63.5
Measuring time, (min)	60

Set Correlation Factor, SCF
SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.164



QC Reviewer:

Lab Man 1/12/23

Signature:

he

Date:

11/11/2023

TEST REPORT

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

Test Report No.:	39724
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.124
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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:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

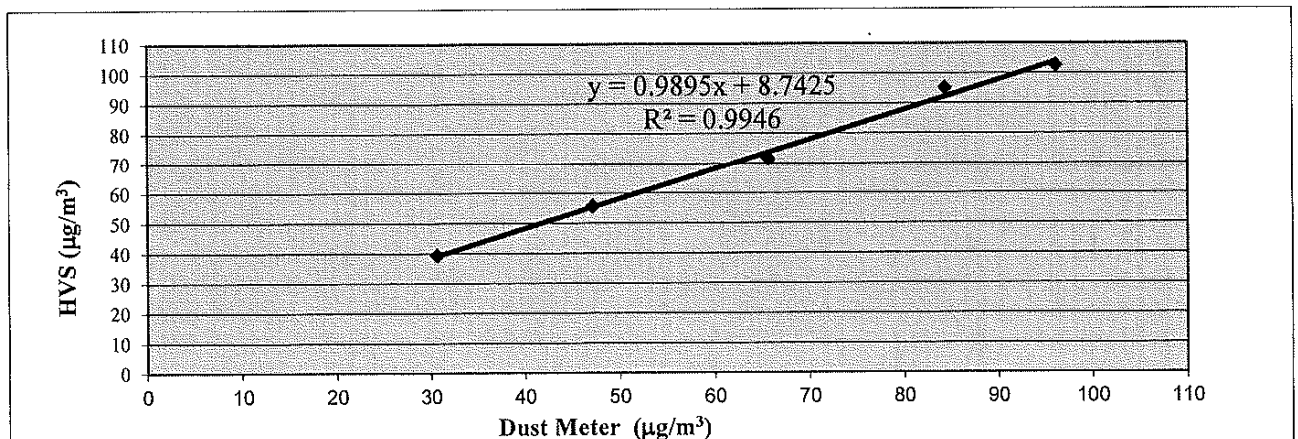
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	31	39
2	47	56
3	66	72
4	84	95
5	96	103
Average	64.8	72.9

By Linear Regression of Y on X
Slope, mw = 0.9895 Intercept, bw = 8.7425
Correlation coefficient* = 0.9973

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	64.8
Measuring time, (min)	60

Set Correlation Factor, SCF
SCF = $[K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3)]$ 1.124



QC Reviewer: LRE MAN HET Signature: hes Date: 12/1/24

TEST REPORT

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

Test Report No.:	39724A
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.128
-------------------------	-------

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:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

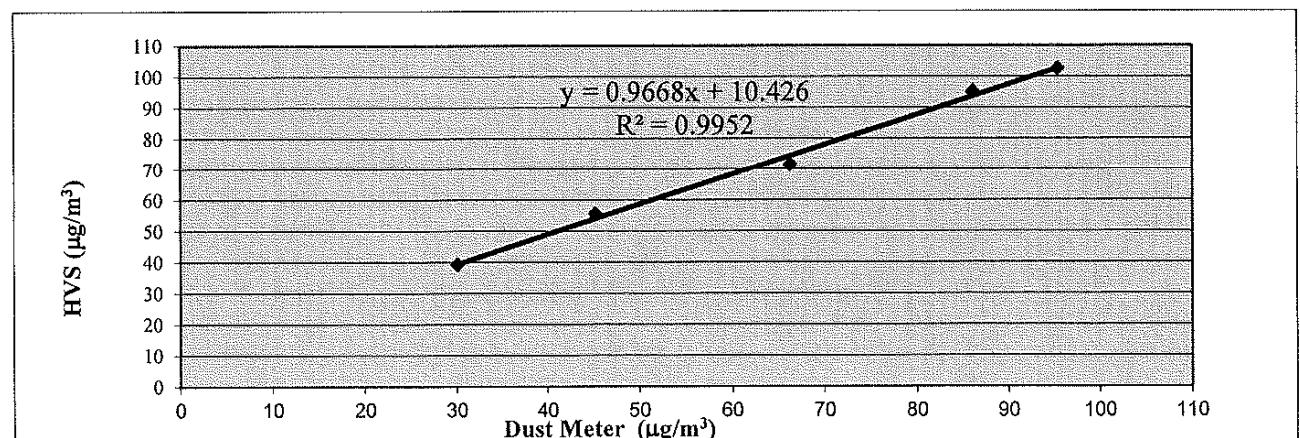
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	30	39
2	45	56
3	66	72
4	86	95
5	95	103
Average	64.6	72.9

By Linear Regression of Y on X
Slope, mw = 0.9668 Intercept, bw = 10.4256
Correlation coefficient* = 0.9976

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	64.6
Measuring time, (min)	60

Set Correlation Factor, SCF
SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.128



QC Reviewer: Lib MAN HZ Signature: he Date: 13/1/24

TEST REPORT

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

Test Report No.:	39318B
Date of Issue:	2023-11-13
Date Received:	2023-11-11
Date Tested:	2023-11-11
Date Completed:	2023-11-13
Next Due Date:	2024-01-12

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)	1.143
-------------------------	-------

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:	11-Nov-23	11-Nov-23
Location:	Wellab Office (Calibration Room)	

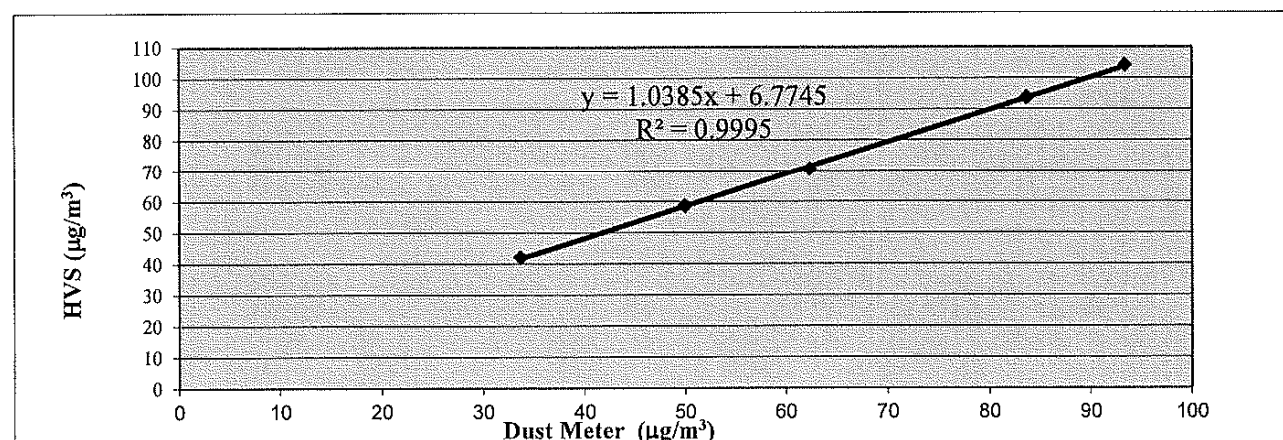
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	34	42
2	50	59
3	62	71
4	84	94
5	93	104
Average	64.6	73.9

By Linear Regression of Y on X
 Slope, $m_w =$ 1.0385 Intercept, $b_w =$ 6.7745
 Correlation coefficient* = 0.9997

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	73.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	64.6
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = [K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3)]$ 1.143



QC Reviewer:

LBB MAN H720

Signature:

hei

Date:

11/11/2023

TEST REPORT

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

Test Report No.:	39724B
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.134
-------------------------	-------

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)

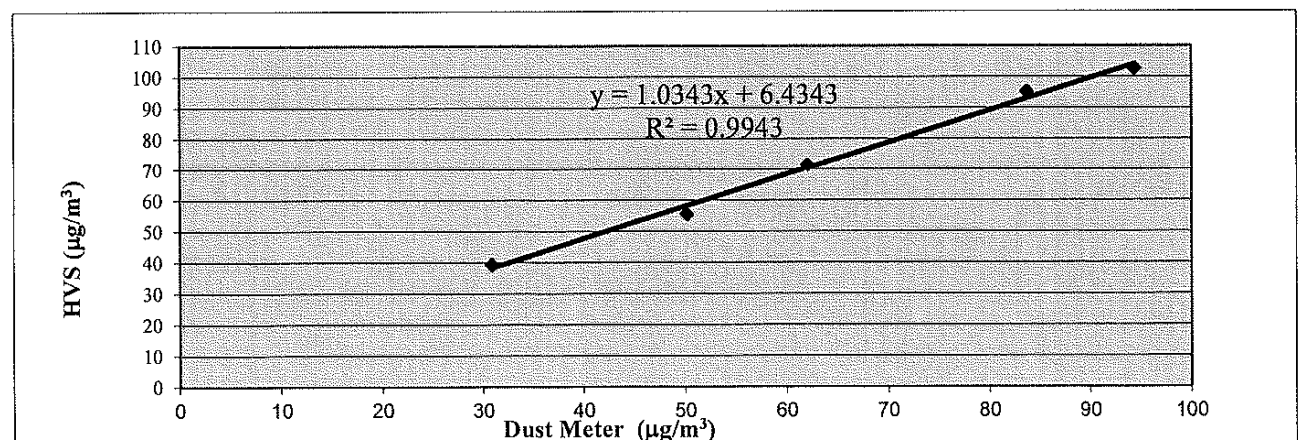
Calibration Report

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:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	31	39
2	50	56
3	62	72
4	84	95
5	94	103
Average	64.3	72.9
By Linear Regression of Y on X Slope, mw = <u>1.0343</u> Intercept, bw = <u>6.4343</u> Correlation coefficient* = <u>0.9972</u>		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	64.3
Measuring time, (min)	60
Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] <u>1.134</u>	



QC Reviewer: LEE MAN YEE Signature: hee Date: 13/1/24

TEST REPORT

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

Test Report No.:	39724C
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.118
-------------------------	-------

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)

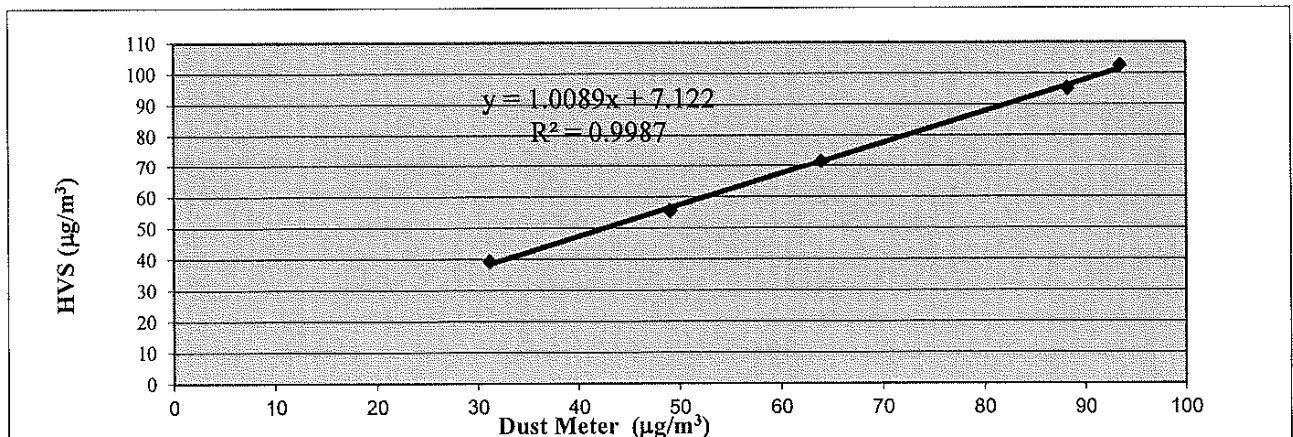
Calibration Report

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:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	31	39
2	49	56
3	64	72
4	88	95
5	94	103
Average	65.2	72.9
By Linear Regression of Y on X Slope, mw = <u>1.0089</u> Intercept, bw = <u>7.1220</u> Correlation coefficient* = <u>0.9993</u>		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	65.2
Measuring time, (min)	60
Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] <u>1.118</u>	



QC Reviewer: LEE MAN HEE Signature: hee Date: 13/1/24

TEST REPORT

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

Test Report No.:	39476A
Date of Issue:	2023-12-27
Date Received:	2023-12-23
Date Tested:	2023-12-23
Date Completed:	2023-12-27
Next Due Date:	2024-02-26

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)	1.156
-------------------------	-------

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)

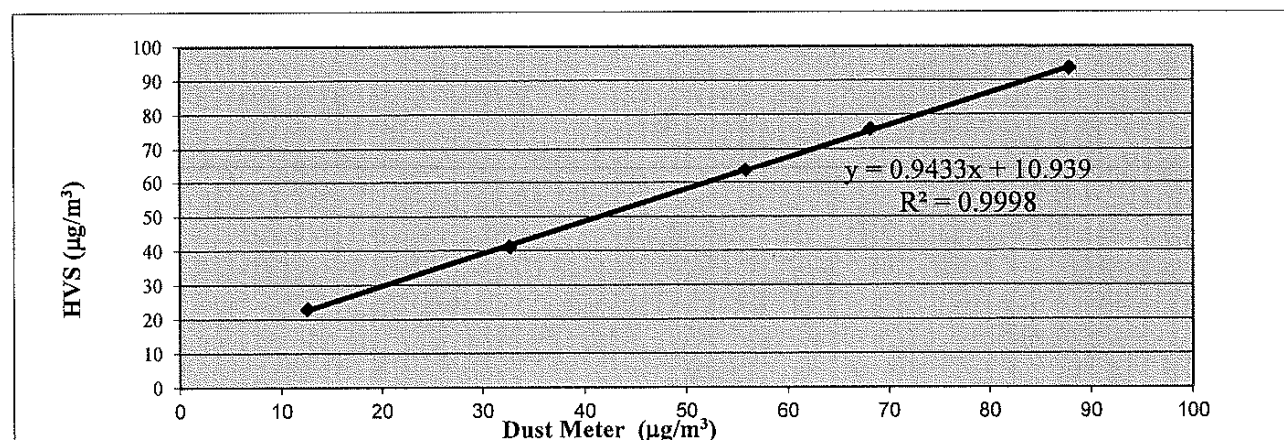
Calibration Report

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:	23-Dec-23	23-Dec-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	13	23
2	33	41
3	56	64
4	68	76
5	88	94
Average	51.5	59.5
<p>By Linear Regression of Y on X</p> <p>Slope, mw = <u>0.9433</u> Intercept, bw = <u>10.9385</u></p> <p>Correlation coefficient* = <u>0.9999</u></p>		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	59.5
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	51.5
Measuring time, (min)	60
<p>Set Correlation Factor, SCF</p> <p>SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] <u>1.156</u></p>	



QC Reviewer: LEE MYS HIR Signature: hee Date: 23/12/23

TEST REPORT

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

Test Report No.:	39318D
Date of Issue:	2023-11-13
Date Received:	2023-11-11
Date Tested:	2023-11-11
Date Completed:	2023-11-13
Next Due Date:	2024-01-12

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)	1.132
-------------------------	-------

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-01-07	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24475	2203
Calibration Date:	11-Nov-23	11-Nov-23
Location:	Wellab Office (Calibration Room)	

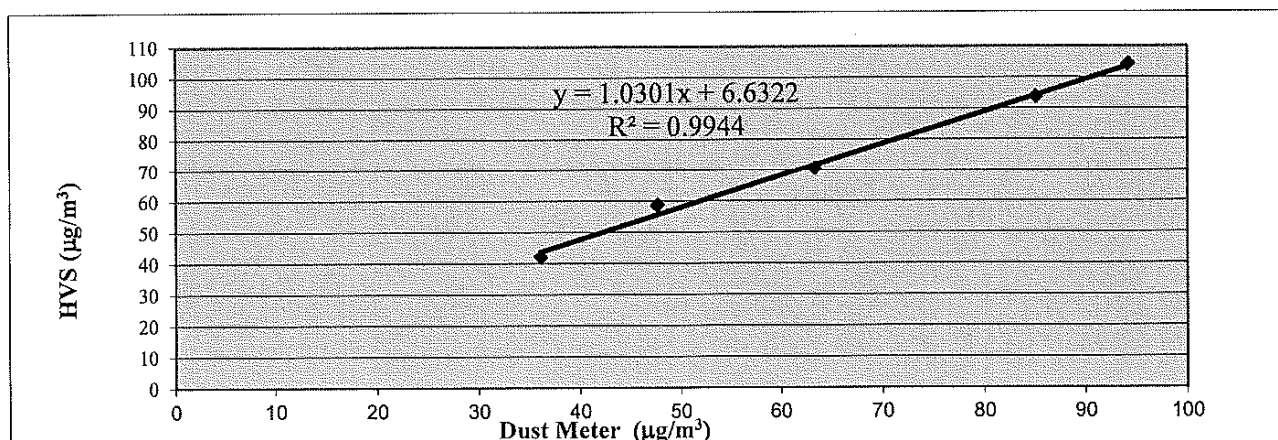
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	36	42
2	48	59
3	63	71
4	85	94
5	94	104
Average	65.3	73.9

By Linear Regression of Y on X
Slope, mw = 1.0301 Intercept, bw = 6.6322
Correlation coefficient* = 0.9972

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	73.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	65.3
Measuring time, (min)	60

Set Correlation Factor, SCF
SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.132



QC Reviewer: LBB MAN 11/11/23 Signature: hei Date: 11/11/2023

TEST REPORT

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

Test Report No.:	39724D
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.105
-------------------------	-------

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

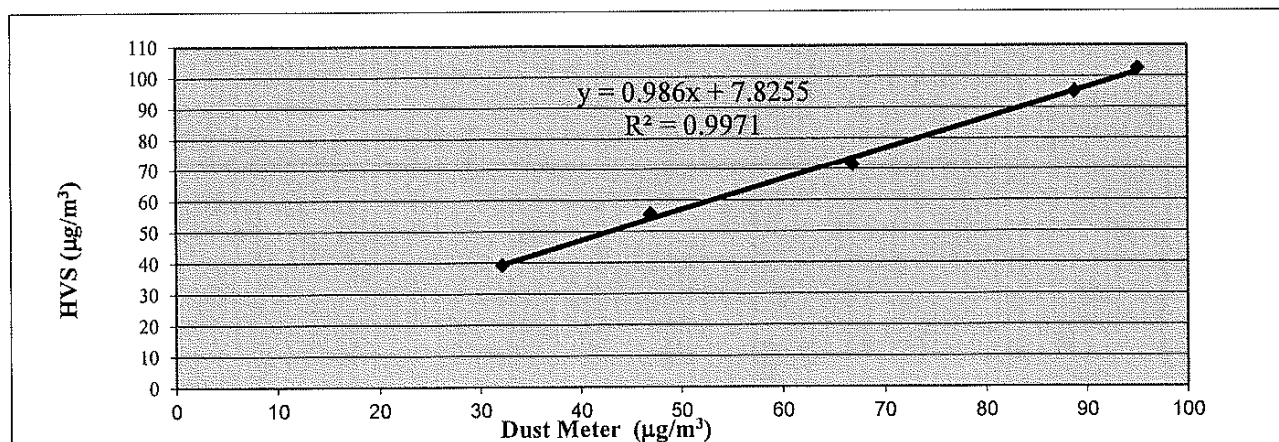
TSP - Total Suspended Particulates (1 hr Dust Meter) Calibration Report

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:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	32	39
2	47	56
3	67	72
4	89	95
5	95	103
Average	66.0	72.9
<p>By Linear Regression of Y on X</p> <p>Slope, mw = <u>0.9860</u> Intercept, bw = <u>7.8255</u></p> <p>Correlation coefficient* = <u>0.9985</u></p>		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	66.0
Measuring time, (min)	60
<p>Set Correlation Factor, SCF</p> <p>SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] <u>1.105</u></p>	



QC Reviewer: LBT MmV KTV Signature: hes Date: 13/1/24

TEST REPORT

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

Test Report No.:	39476B
Date of Issue:	2023-12-27
Date Received:	2023-12-23
Date Tested:	2023-12-23
Date Completed:	2023-12-27
Next Due Date:	2024-02-26

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)	1.085
-------------------------	-------

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:	23-Dec-23	23-Dec-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	18	23
2	36	41
3	59	64
4	70	76
5	90	94
Average	54.8	59.5

By Linear Regression of Y on X

Slope, mw = 0.9859

Intercept, bw =

5.4325

Correlation coefficient* = 0.9996

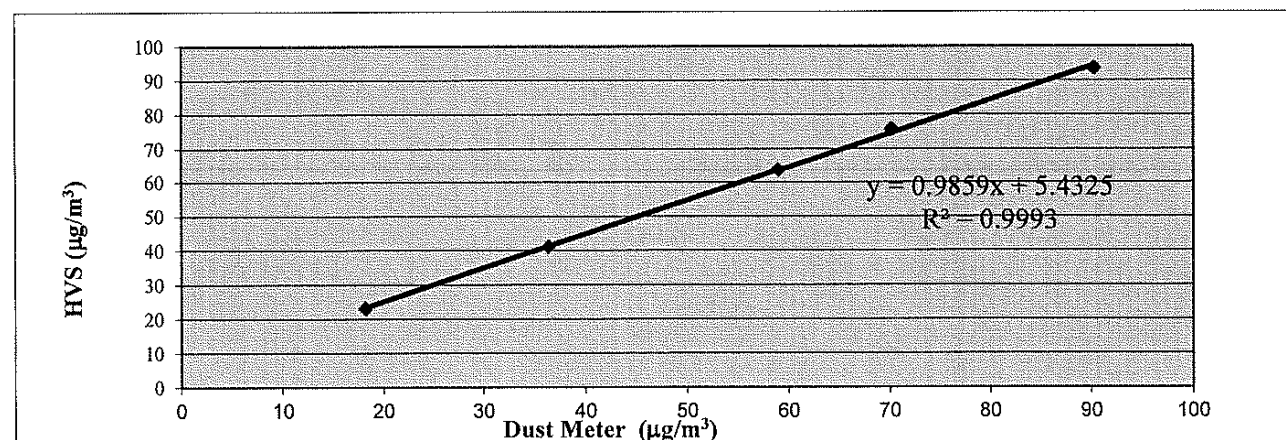
*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	59.5
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	54.8
Measuring time, (min)	60

Set Correlation Factor, SCF

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

1.085



QC Reviewer:

Lbb

MW 4/2 Signature:

he

Date:

23/12/23

TEST REPORT

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

Test Report No.:	39476C
Date of Issue:	2023-12-27
Date Received:	2023-12-23
Date Tested:	2023-12-23
Date Completed:	2023-12-27
Next Due Date:	2024-02-26

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)	1.116
-------------------------	-------

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
Laboratory Manager

TSP - Total Suspended Particulates (1 hr Dust Meter)

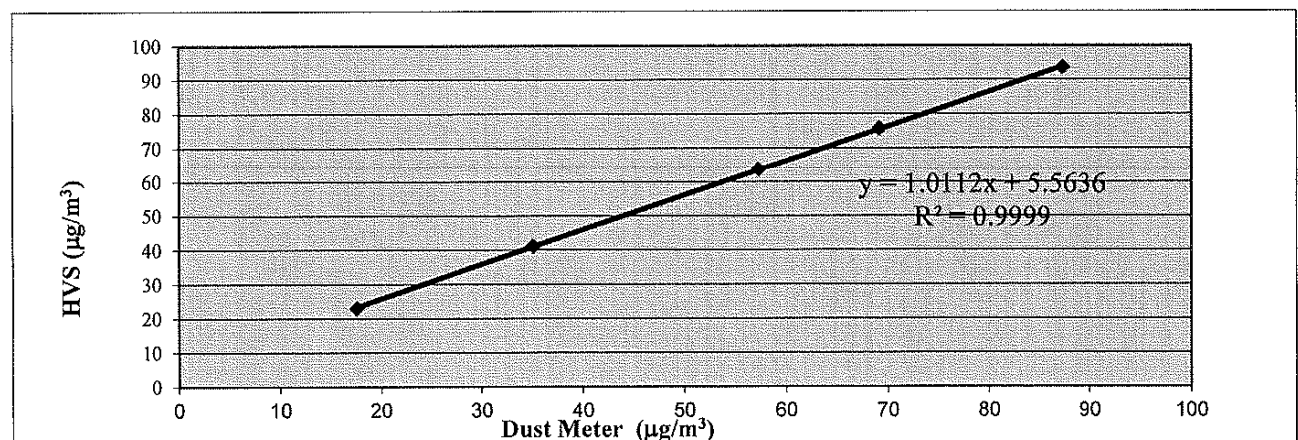
Calibration Report

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:	23-Dec-23	23-Dec-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	18	23
2	35	41
3	57	64
4	69	76
5	87	94
Average	53.3	59.5
<p>By Linear Regression of Y on X</p> <p>Slope, mw = <u>1.0112</u> Intercept, bw = <u>5.5636</u></p> <p>Correlation coefficient* = <u>0.9999</u></p>		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	59.5
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	53.3
Measuring time, (min)	60
<p>Set Correlation Factor, SCF</p> <p>SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] <u>1.116</u></p>	



QC Reviewer: LBJ M&W H&V Signature: he Date: 23/12/23

TEST REPORT

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

Test Report No.:	39476D
Date of Issue:	2023-12-27
Date Received:	2023-12-23
Date Tested:	2023-12-23
Date Completed:	2023-12-27
Next Due Date:	2024-02-26

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)	1.185
-------------------------	-------

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-Dec-23	23-Dec-23
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	17	23
2	36	41
3	55	64
4	63	76
5	81	94
Average	50.2	59.5

By Linear Regression of Y on X

Slope, mw = 1.1325

Intercept, bw = 2.6512

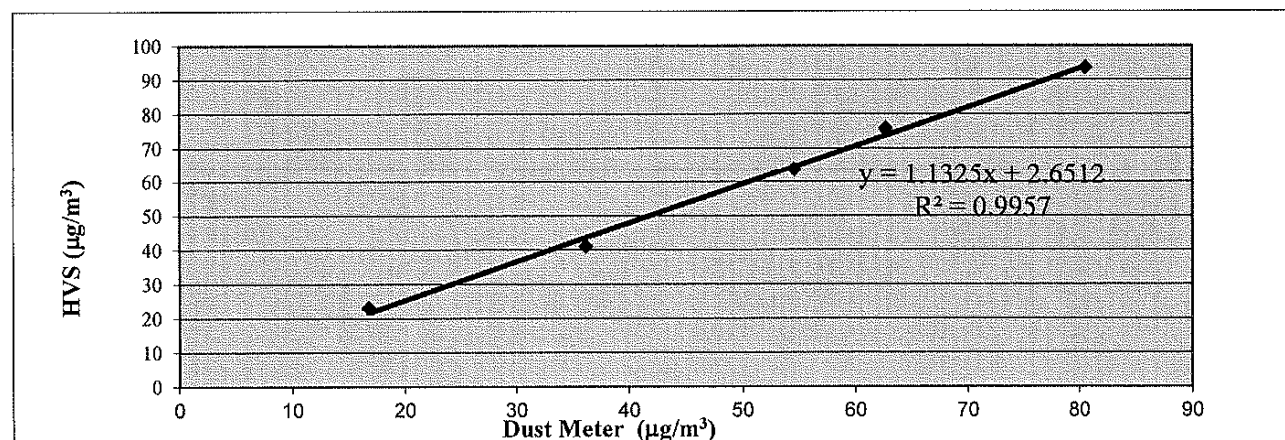
Correlation coefficient* = 0.9979

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	59.5
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	50.2
Measuring time, (min)	60

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.185



QC Reviewer:

L22 MAN L22 Signature: he

Date:

23/12/23

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./231111

Equipment No.: WA-12-09
Model No. TE-5170
Operator: HL

Serial No. 2203
Cal. Date: 11-Nov-23

Ambient Condition			
Temperature, Ta (K)	299.2	Pressure, Pa (mmHg)	765.4

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	Orifice			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	11.3	3.37	59.36	7.6	2.76
2	10.2	3.20	56.43	6.5	2.55
3	8.6	2.94	51.88	5.8	2.41
4	6.4	2.53	44.86	4.4	2.10
5	4.0	2.00	35.62	2.8	1.68

By Linear Regression of Y on X

Slope, mw = 0.0443 Intercept, bw : 0.1043
Correlation coefficient* = 0.9976

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM
From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.02

Remarks: _____

Conducted by: Lee Man Hei
Checked by: Ho Ka Chun

Signature: [Signature]
Signature: [Signature]

Date: 11/11/2023
Date: 11/11/2023

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./231223

Equipment No.: WA-12-09
Model No. TE-5170
Operator: HL

Serial No. 2203
Cal. Date: 23-Dec-23

Ambient Condition			
Temperature, Ta (K)	291.5	Pressure, Pa (mmHg)	776.3

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	Orifice			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	12.2	3.57	62.89	7.9	2.87
2	10.0	3.23	57.00	6.6	2.63
3	8.8	3.03	53.52	5.7	2.44
4	6.9	2.68	47.48	4.6	2.19
5	4.2	2.09	37.21	3.0	1.77

By Linear Regression of Y on X

Slope, mw = 0.0431

Intercept, bw : 0.1573

Correlation coefficient* = 0.9993

*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 = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ <u>3.86</u>	

Remarks: _____

Conducted by: EE MMS HBR
Checked by: Go Ica chu

Signature: [Signature]
Signature: [Signature]

Date: 23/12/2023
Date: 23/12/2023

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./240113

Equipment No.: WA-12-09
Model No. TE-5170
Operator: HL

Serial No. 2203
Cal. Date: 13-Jan-24

Ambient Condition			
Temperature, Ta (K)	291.7	Pressure, Pa (mmHg)	768.1

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	Orifice			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	12.1	3.53	62.28	8.2	2.91
2	10.2	3.25	57.24	6.8	2.65
3	8.5	2.96	52.32	5.9	2.47
4	6.9	2.67	47.21	4.6	2.18
5	4.4	2.13	37.85	3.2	1.82

By Linear Regression of Y on X

Slope, mw = 0.0448

Intercept, bw : 0.1026

Correlation coefficient* = 0.9980

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.99

Remarks: _____

Conducted by: LEE MAN HING
Checked by: Ho Jea Ahn

Signature: [Signature]
Signature: [Signature]

Date: 13/1/24
Date: 13/1/24

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)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (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=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
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=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

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

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 15, 2024

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 755.4

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2896

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4360	3.3	2.00
2	3	4	1	1.0280	6.4	4.00
3	5	6	1	0.9150	8.0	5.00
4	7	8	1	0.8650	8.9	5.50
5	9	10	1	0.7190	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)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0031	0.6985	1.4195	0.9956	0.6933	0.8823
0.9989	0.9717	2.0075	0.9915	0.9645	1.2477
0.9968	1.0894	2.2444	0.9894	1.0813	1.3950
0.9956	1.1510	2.3539	0.9882	1.1424	1.4631
0.9904	1.3775	2.8390	0.9831	1.3673	1.7645
QSTD	m=	2.08157	QA	m=	1.30344
	b=	-0.02865		b=	-0.01780
	r=	0.99981		r=	0.99981

Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
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= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$	

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

Station FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark
Date: 30-Nov-23
Model No. TE-5170
Equipment No.: WA-12-20

File No. WMA20002/20/0022
Next Due Date: 29-Jan-24
Operator: HL
Serial No. 3223

Ambient Condition			
Temperature, Ta (K)	297.6	Pressure, Pa (mmHg)	765.4

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	Orifice			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	3.76	66.16	10.0	3.18
2	11.9	3.46	61.06	8.5	2.93
3	9.6	3.11	54.92	6.9	2.64
4	6.3	2.52	44.63	4.3	2.08
5	3.7	1.93	34.38	2.8	1.68

By Linear Regression of Y on X

Slope, mw = 0.0478

Intercept, bw : 0.0026

Correlation coefficient* = 0.9986

*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

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

$$\text{Therefore, Set Point; } W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = \underline{4.21}$$

Remarks:

Conducted by: Liz Mon Lpr Signature: _____

Date: 30/11/2023

Checked by: Chica da Signature: _____

Date: 30/11/2023

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	File No.	WMA20002/20/0023
Date:	25-Jan-24	Next Due Date:	24-Mar-24
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-20	Serial No.	3223

Ambient Condition			
Temperature, Ta (K)	284	Pressure, Pa (mmHg)	774

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0589	Intercept, bc	-0.02865
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	15-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	13.0	3.73	63.73	8.1	2.94
2	11.6	3.52	60.23	7.2	2.77
3	9.3	3.15	53.98	5.9	2.51
4	6.1	2.55	43.81	4.3	2.14
5	3.4	1.91	32.83	2.4	1.60

By Linear Regression of Y on X

Slope, mw = 0.0424

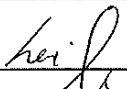
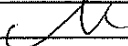
Intercept, bw = 0.2369

Correlation coefficient* = 0.9984

*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 = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ <u>3.97</u>

Remarks: _____

Conducted by: <u>LFE man ngr</u>	Signature: <u></u>	Date: <u>25-1-2024</u>	
Checked by: <u>Jo ka chin</u>	Signature: <u></u>	Date: <u>25/1/24</u>	

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

Station FLN-DMS3 - House near Tong Hang
Date: 30-Nov-23
Model No. TE-5170
Equipment No.: WA-12-17

File No. WMA20002/17/0022
Next Due Date: 29-Jan-24
Operator: HL
Serial No. 3218

Ambient Condition			
Temperature, Ta (K)	297.5	Pressure, Pa (mmHg)	765.5

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	Orifice			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	14.8	3.86	68.02	9.9	3.16
2	11.2	3.36	59.27	7.3	2.71
3	8.9	3.00	52.92	6.3	2.52
4	6.4	2.54	44.99	4.2	2.06
5	3.5	1.88	33.46	2.4	1.56

By Linear Regression of Y on X

Slope, mw = 0.0464

Intercept, bw : 0.0013

Correlation coefficient* = 0.9979

*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 x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = <u>3.95</u>	

Remarks: _____

Conducted by: Let Man Hui Signature: _____

Date: 30/11/2023

Checked by: Ua Ca Chu Signature: _____

Date: 30/11/2023

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

Station FLN-DMS3 - House near Tong Hang
Date: 25-Jan-24
Model No. TE-5170
Equipment No.: WA-12-17

File No. WMA20002/17/0023
Next Due Date: 24-Mar-24
Operator: HL
Serial No. 3218

Ambient Condition			
Temperature, Ta (K)	283.2	Pressure, Pa (mmHg)	773.5

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0589	Intercept, bc	-0.02865
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	15-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			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	15.2	4.03	68.95	9.9	3.26
2	11.2	3.46	59.25	7.4	2.82
3	9.6	3.21	54.89	6.0	2.53
4	6.1	2.56	43.86	4.3	2.15
5	3.5	1.94	33.34	2.4	1.60

By Linear Regression of Y on X

Slope, mw = 0.0457 Intercept, bw = 0.0941
Correlation coefficient* = 0.9977

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.95

Remarks: _____

Conducted by: LEE MAN HO Signature: _____

Checked by: Wai Ka Him Signature: _____

Date: 25-1-2024

Date: 28/1/24

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

Station KTN-DMS4A - Temporary Structure at Pak Shek Au
Date: 28-Dec-23
Model No. TE-6070X
Equipment No.: WA-11-03

File No. WMA20002/03/0022
Next Due Date: 27-Feb-24
Operator: HL
Serial No. 3225

Ambient Condition			
Temperature, Ta (K)	287	Pressure, Pa (mmHg)	769.1

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	
	$\Delta H(\text{orifice}),$ 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	11.2	11.77	60.47	57.55	1.63	8.9	1.92
2	9.1	9.56	54.58	51.94	1.47	7.2	1.72
3	6.2	6.51	45.18	43.00	1.22	5.4	1.49
4	5.5	5.78	42.60	40.54	1.15	4.7	1.39
5	2.4	2.52	28.39	27.02	0.76	2	0.91

By Linear Regression of Y on X

Slope, mw = 0.0325 Intercept, bw = 0.0536
Correlation coefficient* = 0.9974

(1) $DEL Hc = \Delta H \times (Pa/760 \times 298/Ta)$

(2) $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc \text{ (m}^3/\text{min)}$

(3) $Qa = Qstd \times (Ta / Pa) \times (760 / 298) \text{ (m}^3/\text{min)}$

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation	
Set Point Flow Rate., SFR	
$SFR = 1.13 \times (760/Pa) \times (Ta/298) =$	<u>38.00</u>
Sampler Well - Type Manometer Set Point, SSP	
$SSP = [(mw \times SFR + bw)^2 \times Pa] / (Ta + 30) =$	<u>4.04</u>

Remarks:

Conducted by: LEF mm MSL
Checked by: Ho Ka Chun

Signature: [Signature]
Signature: [Signature]

Date: 28-12-2023
Date: 28/12/23

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

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

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:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

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

TEST REPORT

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

Test Report No.: 38750
Date of Issue: 2023-08-21
Date Received: 2023-08-18
Date Tested: 2023-08-18
Date Completed: 2023-08-21
Next Due Date: 2024-08-20

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration**Item for Calibration:**

Description : Acoustical Calibrator
Manufacturer : Brüel & Kjær
Model No. : 4231
Serial No. : 2412367
Equipment No. : N-02-03

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 ± 0.1dB
At 114 dB SPL	114.0	114.0 ± 0.1dB

Remark: This report supersedes the one dated 2019-08-20 with certificate number 31951.

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**



PATRICK TSE

General Manager

TEST REPORT

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

Test Report No.:	38981
Date of Issue:	2023-10-03
Date Received:	2023-09-29
Date Tested:	2023-09-29
Date Completed:	2023-10-03
Next Due Date:	2024-10-02

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

Test conditions:

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

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

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

Test Report No.: 38750A
Date of Issue: 2023-08-21
Date Received: 2023-08-18
Date Tested: 2023-08-18
Date Completed: 2023-08-21
Next Due Date: 2024-08-20

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration**Item for calibration:**

Description : Acoustical Calibrator
Manufacturer : SVANTEK
Model No. : SV30A
Serial No. : 24791
Equipment No. : N-09-04

Test conditions:

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

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 \pm 0.1 dB
At 114 dB SPL	114.0	114.0 \pm 0.1 dB

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1801, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	38981A
Date of Issue:	2023-10-03
Date Received:	2023-09-29
Date Tested:	2023-09-29
Date Completed:	2023-10-03
Next Due Date:	2024-10-02

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

TEST REPORT

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

Test Report No.:	39225A
Date of Issue:	2023-10-20
Date Received:	2023-10-19
Date Tested:	2023-10-19 to 2023-10-20
Date Completed:	2023-10-20

ATTN: Miss Mei Ling Tang

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

TEST REPORT

Test Report No.:	39225A
Date of Issue:	2023-10-20
Date Received:	2023-10-19
Date Tested:	2023-10-19 to 2023-10-20
Date Completed:	2023-10-20

Page: 2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	13100	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.0	20.001	-0.001	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.02	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.23	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.08	$<0.1\text{mg/L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
7.96	8.13	Difference between Titration value and instrument reading $<0.2\text{mg/L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.28	9.0-11.0	Pass
50 NTU	50.97	45.0-55.0	Pass
100 NTU	102.8	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

TEST REPORT

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

Test Report No.: 39516D
Date of Issue: 2023-12-22
Date Received: 2023-12-21
Date Tested: 2023-12-21 to
2023-12-22
Date Completed: 2023-12-22

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-129	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B101455
- EXO Optical DO Sensor, Ti	599100-01	17M101337
- EXO conductivity/Temperature Sensor, Ti	599870	17B100784
- EXO Turbidity Sensor, Ti	599101-01	16J101112
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100565

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

TEST REPORT

Test Report No.:	39516D
Date of Issue:	2023-12-22
Date Received:	2023-12-21
Date Tested:	2023-12-21 to 2023-12-22
Date Completed:	2023-12-22

Page: 2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	12900	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.0	19.998	+0.002	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.04	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.86	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.24	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.08	$<0.1\text{mg/L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.12	8.03	Difference between Titration value and instrument reading $<0.2\text{mg/L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.02	9.0-11.0	Pass
50 NTU	50.11	45.0-55.0	Pass
100 NTU	100.5	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

CALIBRATION CERTIFICATE

Product Name: Portable Biogas Analyzer

Model: IRCD4 **Serial:** M230814007

Ambient Temperature: 25°C **Ambient Humidity:** 45%

Atmospheric Pressure: 1018hpa **Calibration Date:** 08.24.2023

Recommended calibration period: CH₄, CO₂: 6-12 months; H₂S, O₂: 3-6 months

Calibration result:

Notice: Uncertainty of standard gases CH₄:±2%, CO₂:±2%, H₂S:±2%, O₂:±1%

Content	Standard gas	Testing result	Qualification “√” or “×”	Standards for each gas
CH ₄ (%vol)	50	49	√	(1-100)%vol: ±0.5%vol of displayed value
	70	69	√	
	100	100	√	
CO ₂ (%vol)	30	29	√	(0-100)%vol: ±5%vol of standard gas
	50	49	√	
	100	100	√	
O ₂ (%vol)	5.0	5.1	√	0.0-5.0:±0.5%vol 5.0-30.0:±0.9%vol
	15.0	15.1	√	
	25.0	24.9	√	
H ₂ S (ppm)	50	50	√	0-49:±3ppm 50-100:±10% (0-2000)ppm:±5FS
	80	81	√	
	199	199	√	

Calibration carried out by: Zhang Lu **Result reviewed by:** He Yang

Note:

1. The device should be calibrated immediately once it is repaired well
2. During using, if any doubts regarding technical parameter are aroused, please calibration it again.

**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 (January 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2			
7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3	
21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2		
28-Jan	29-Jan	30-Jan	31-Jan			
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2			

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	<u>1hr TSP and 24hr TSP</u> 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	<u>24hr RSP (Arsenic)</u> 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	<u>1hr TSP and 24hr TSP</u> FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A ⁽⁵⁾	ND/2019/05	<u>1hr TSP and 24hr TSP</u> FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A ⁽⁶⁾	ND/2019/03	<u>1hr TSP</u> FLN-DMS5 - Noble Hill	--
	ND/2019/04	<u>24hr TSP</u> FLN-DMS5A - Good View New Village	--
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 exceeds 500m. 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 (January 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan
		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
7-Jan	8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan
	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	
14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan
	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	
21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan
	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	
28-Jan	29-Jan	30-Jan	31-Jan			
	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	<u>River Beas</u> SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	<u>River Indus and near Siu Hang San Tsuen Stream</u> 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 (January 2024)

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

#Night-time avifauna monitoring in Long Valley

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 January 2024

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

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 (February 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3	
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2		
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2			
25-Feb	26-Feb	27-Feb	28-Feb	29-Feb		
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 24hr TSP* KTN-DMS4(B), FLN-DMS5A Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 24hr RSP (Arsenic) KTN-DMS4A 24hr TSP FLN-DMS1, FLN-DMS3	1hr TSP* X3 FLN-DMS1, FLN-DMS3 Noise CP-FLN-NMS1, CP-FLN-NMS2				

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	<u>1hr TSP and 24hr TSP</u> 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	<u>24hr RSP (Arsenic)</u> 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	<u>1hr TSP and 24hr TSP</u> FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A ⁽⁵⁾	ND/2019/05	<u>1hr TSP and 24hr TSP</u> FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A ⁽⁶⁾	ND/2019/03	<u>1hr TSP</u> FLN-DMS5 - Noble Hill	--
	ND/2019/04	<u>24hr TSP</u> FLN-DMS5A - Good View New Village	--
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 exceeds 500m. 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 (February 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Feb	2-Feb	3-Feb
					<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb
			<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
25-Feb	26-Feb	27-Feb	28-Feb	29-Feb		
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> 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	<u>River Beas</u> SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	<u>River Indus and near Siu Hang San Tsuen Stream</u> 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 (February 2024)

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

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

#Night-time avifauna monitoring in Long Valley

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 February 2024

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

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 ($\mu\text{g}/\text{m}^3$)
3-Jan-24	9:00	Sunny	112.1
3-Jan-24	10:00	Sunny	107.7
3-Jan-24	11:00	Sunny	94.6
9-Jan-24	13:05	Sunny	87.3
9-Jan-24	14:05	Sunny	104.4
9-Jan-24	15:05	Sunny	101.0
15-Jan-24	9:00	Sunny	98.8
15-Jan-24	10:00	Sunny	91.8
15-Jan-24	11:00	Sunny	85.2
19-Jan-24	9:00	Sunny	83.1
19-Jan-24	10:00	Sunny	89.3
19-Jan-24	11:00	Sunny	94.5
25-Jan-24	13:00	Cloudy	56.3
25-Jan-24	14:00	Cloudy	61.3
25-Jan-24	15:00	Cloudy	54.4
31-Jan-24	9:00	Cloudy	86.3
31-Jan-24	10:00	Cloudy	125.2
31-Jan-24	11:00	Cloudy	83.3
		Minimum	54.4
		Maximum	125.2
		Average	89.8

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
3-Jan-24	13:00	Sunny	93.1
3-Jan-24	14:00	Sunny	86.4
3-Jan-24	15:00	Sunny	101.3
9-Jan-24	8:30	Sunny	101.4
9-Jan-24	9:30	Sunny	103.2
9-Jan-24	10:30	Sunny	98.8
15-Jan-24	13:00	Sunny	98.9
15-Jan-24	14:00	Sunny	88.0
15-Jan-24	15:00	Sunny	114.1
19-Jan-24	9:00	Sunny	89.6
19-Jan-24	10:00	Sunny	104.1
19-Jan-24	11:00	Sunny	93.3
25-Jan-24	9:00	Cloudy	57.8
25-Jan-24	10:00	Cloudy	68.8
25-Jan-24	11:00	Cloudy	56.2
31-Jan-24	13:00	Cloudy	81.9
31-Jan-24	14:00	Cloudy	89.6
31-Jan-24	15:00	Cloudy	91.2
		Minimum	56.2
		Maximum	114.1
		Average	89.9

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
2-Jan-24	9:00	Sunny	95.2
2-Jan-24	10:00	Sunny	105.6
2-Jan-24	11:00	Sunny	116.5
8-Jan-24	13:00	Sunny	113.4
8-Jan-24	14:00	Sunny	96.8
8-Jan-24	15:00	Sunny	104.2
12-Jan-24	9:00	Fine	89.9
12-Jan-24	10:00	Fine	109.7
12-Jan-24	11:00	Fine	94.2
18-Jan-24	9:00	Sunny	47.1
18-Jan-24	10:00	Sunny	42.1
18-Jan-24	11:00	Sunny	55.0
24-Jan-24	13:00	Cloudy	61.1
24-Jan-24	14:00	Cloudy	69.8
24-Jan-24	15:00	Cloudy	68.4
30-Jan-24	9:00	Cloudy	125.6
30-Jan-24	10:00	Cloudy	87.5
30-Jan-24	11:00	Cloudy	61.4
Minimum			42.1
Maximum			125.6
Average			85.8

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
2-Jan-24	9:00	Sunny	162.5
2-Jan-24	10:00	Sunny	154.0
2-Jan-24	11:00	Sunny	102.3
8-Jan-24	13:00	Sunny	97.7
8-Jan-24	14:00	Sunny	81.0
8-Jan-24	15:00	Sunny	91.1
12-Jan-24	13:00	Sunny	115.3
12-Jan-24	14:00	Sunny	95.9
12-Jan-24	15:00	Sunny	101.7
18-Jan-24	13:00	Sunny	65.0
18-Jan-24	14:00	Sunny	50.3
18-Jan-24	15:00	Sunny	47.0
24-Jan-24	13:00	Cloudy	53.4
24-Jan-24	14:00	Cloudy	65.2
24-Jan-24	15:00	Cloudy	72.3
30-Jan-24	13:00	Cloudy	74.5
30-Jan-24	14:00	Cloudy	59.7
30-Jan-24	15:00	Cloudy	63.2
Minimum			47.0
Maximum			162.5
Average			86.2

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. (µg/m ³)
			Initial	Final		Initial	Final		Initial	Final			
2-Jan-24	Sunny	292.2	2.9426	3.1716	0.2290	8810.9	8834.9	24.0	1.23	1.23	1.23	1770.9	129.3
8-Jan-24	Sunny	290.9	2.9657	3.1837	0.2180	8834.9	8858.9	24.0	1.23	1.23	1.23	1775.6	122.8
12-Jan-24	Sunny	290.5	2.8794	3.0843	0.2049	8858.9	8882.9	24.0	1.23	1.23	1.23	1776.4	115.3
18-Jan-24	Sunny	291.3	2.9925	3.1345	0.1420	8883.1	8907.1	24.0	1.23	1.23	1.23	1774.8	80.0
24-Jan-24	Cloudy	279.3	2.9517	3.0515	0.0998	8907.1	8931.1	24.0	1.26	1.27	1.26	1820.0	54.8
30-Jan-24	Cloudy	287.0	2.9566	3.0543	0.0977	8931.1	8955.1	24.0	1.22	1.20	1.21	1745.5	56.0
												Min	54.8
												Max	129.3
												Average	93.0

Location FLN-DMS3 - House near Tong Hang

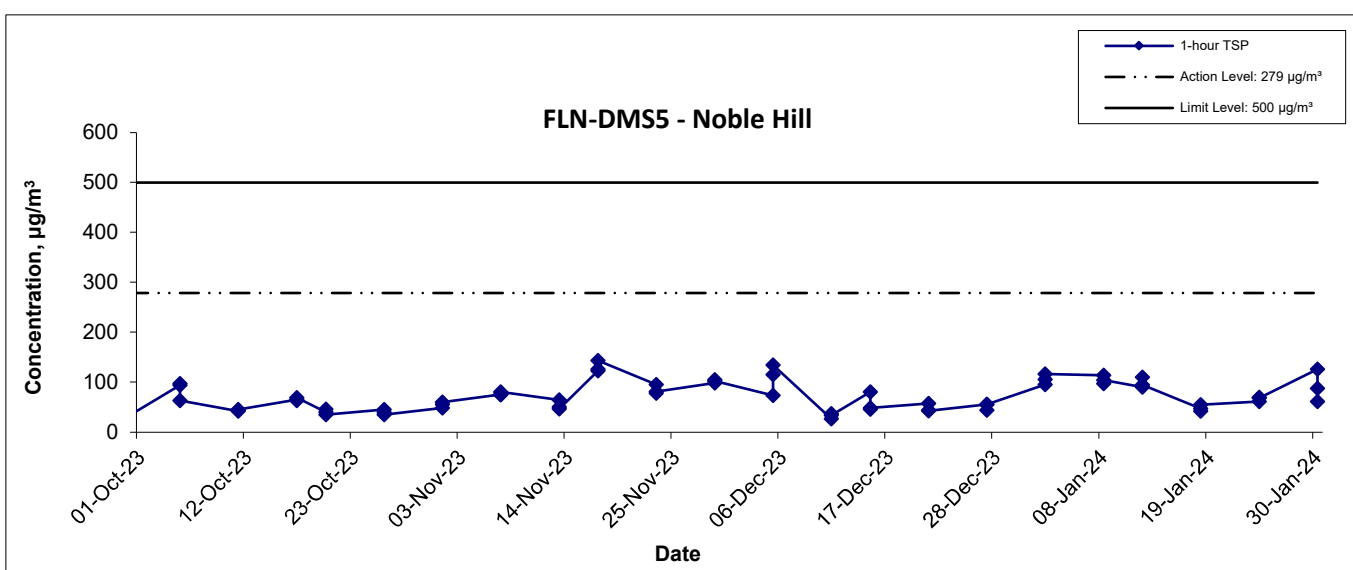
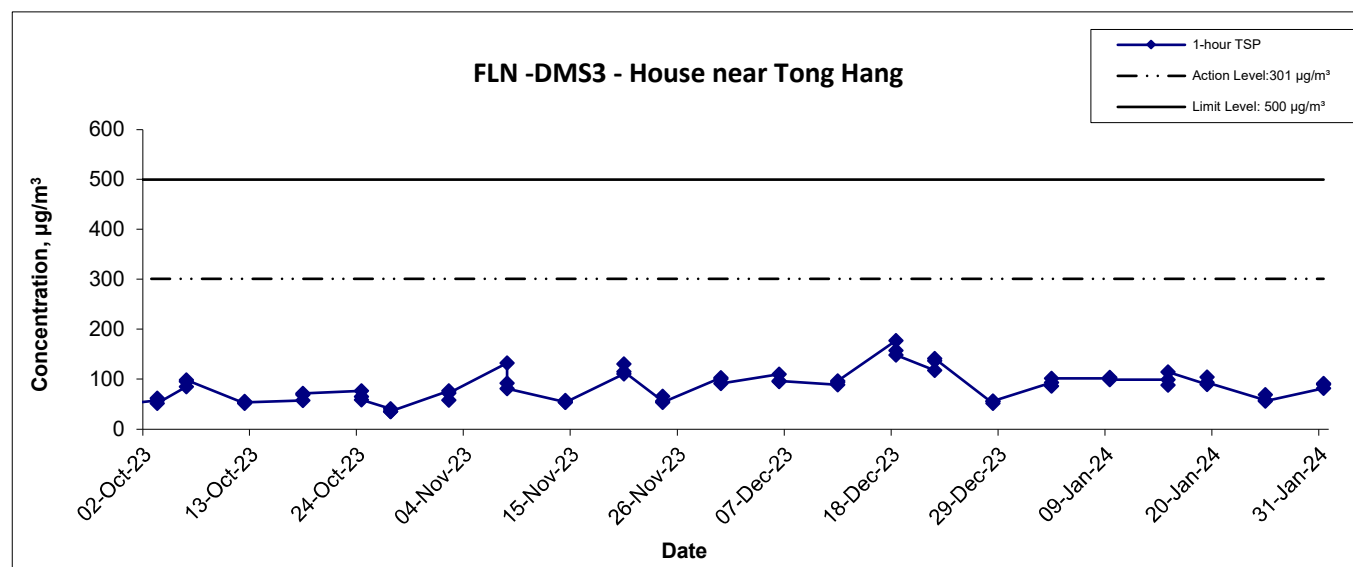
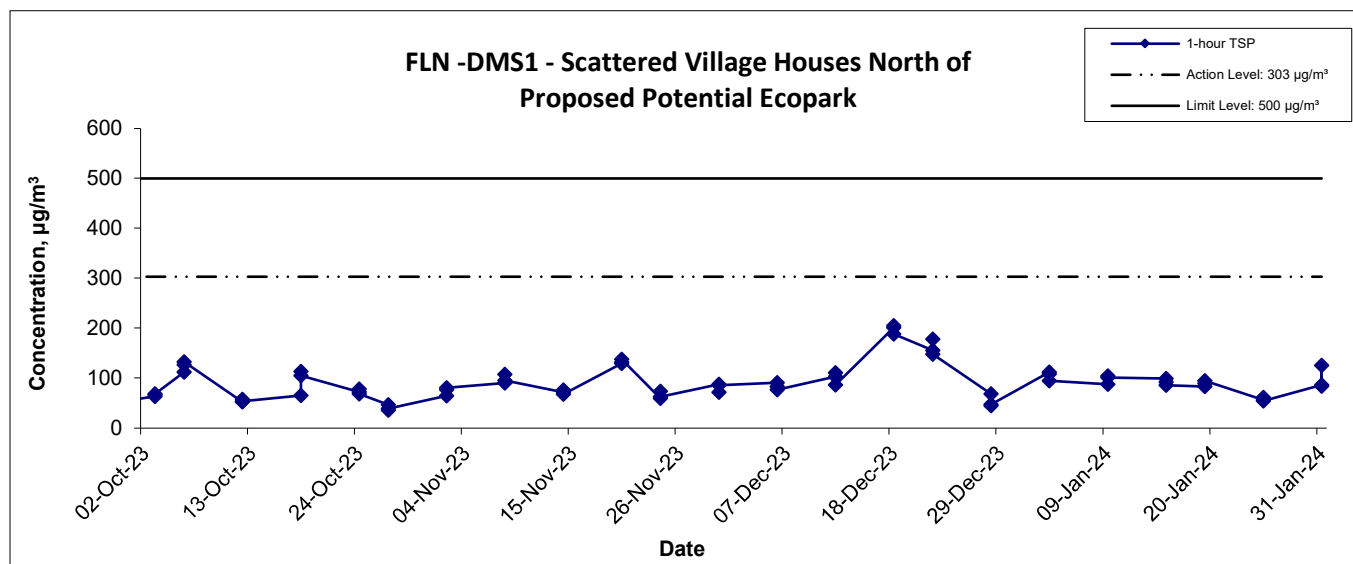
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Conc. (µg/m ³)
			Initial	Final		Initial	Final		Initial	Final			
2-Jan-24	Sunny	292.2	2.9651	3.1342	0.1691	9997.6	10021.6	24.0	1.23	1.24	1.24	1781.4	94.9
8-Jan-24	Sunny	290.9	2.9603	3.1309	0.1706	10021.6	10045.6	24.0	1.24	1.24	1.24	1786.2	95.5
12-Jan-24	Sunny	290.5	2.8836	3.0363	0.1527	10045.7	10069.7	24.0	1.24	1.24	1.24	1787.0	85.5
18-Jan-24	Sunny	291.3	3.0312	3.1079	0.0767	10069.7	10093.7	24.0	1.24	1.24	1.24	1785.4	43.0
24-Jan-24	Cloudy	279.3	2.9534	3.0940	0.1406	10093.7	10117.7	24.0	1.27	1.28	1.27	1830.9	76.8
30-Jan-24	Cloudy	287.0	2.8431	2.9270	0.0839	10117.7	10141.7	24.0	1.22	1.21	1.21	1746.8	48.0
												Min	43.0
												Max	95.5
												Average	73.9


Appendix E - 24-hour TSP Monitoring Results

Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
2-Jan-24	9:00	Sunny	113.9
8-Jan-24	13:35	Sunny	85.2
12-Jan-24	10:00	Sunny	90.7
18-Jan-24	11:00	Sunny	70.5
24-Jan-24	10:00	Cloudy	71.6
30-Jan-24	9:30	Cloudy	102.6
Minimum			70.5
Maximum			113.9
Average			89.1

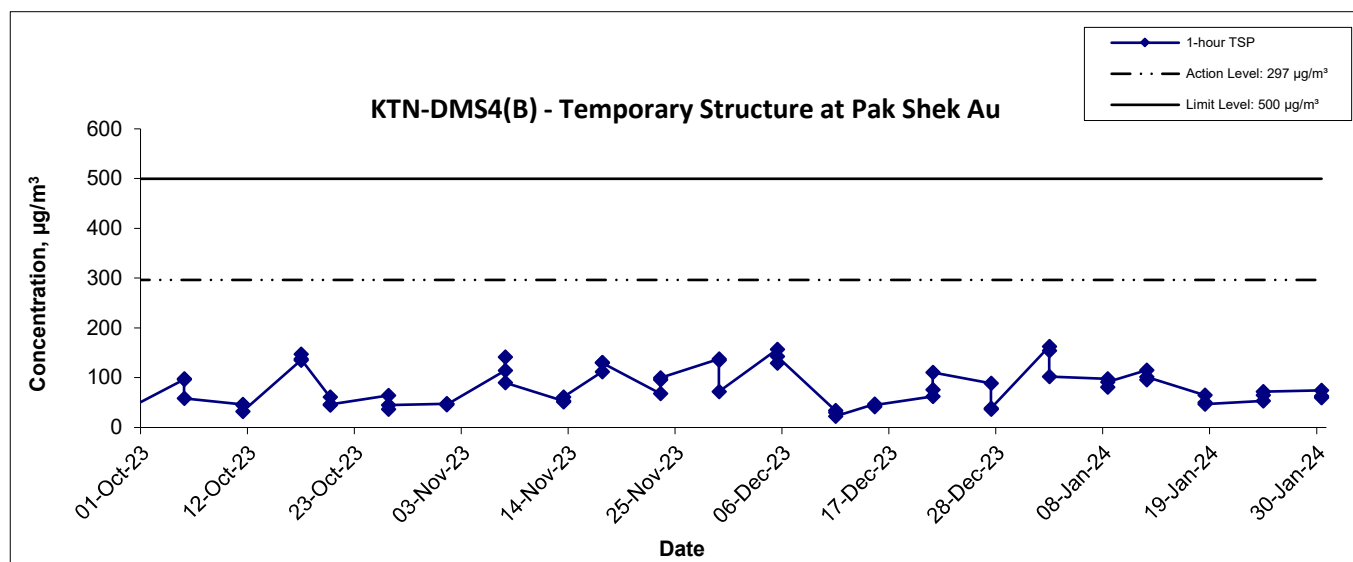
Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
2-Jan-24	9:00	Sunny	104.1
9-Jan-24	13:00	Sunny	80.3
12-Jan-24	9:30	Sunny	97.1
18-Jan-24	10:00	Sunny	46.1
24-Jan-24	9:30	Cloudy	47.2
30-Jan-24	9:00	Cloudy	88.6
Minimum			46.1
Maximum			104.1
Average			77.2


1-hr TSP Concentration Levels



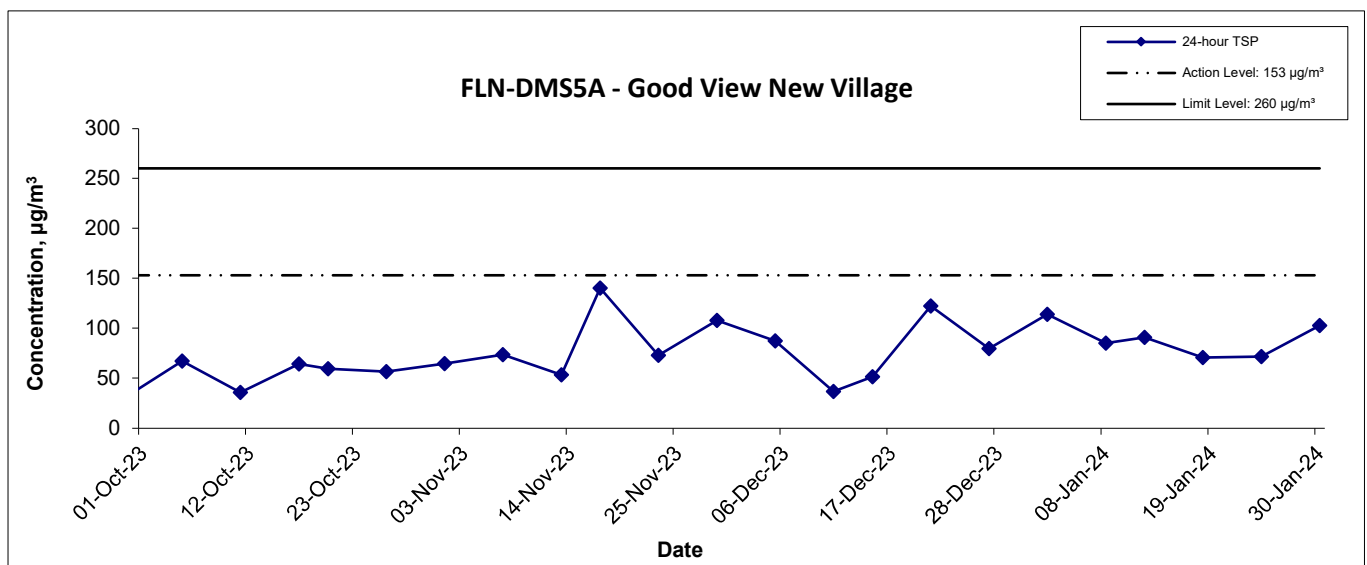
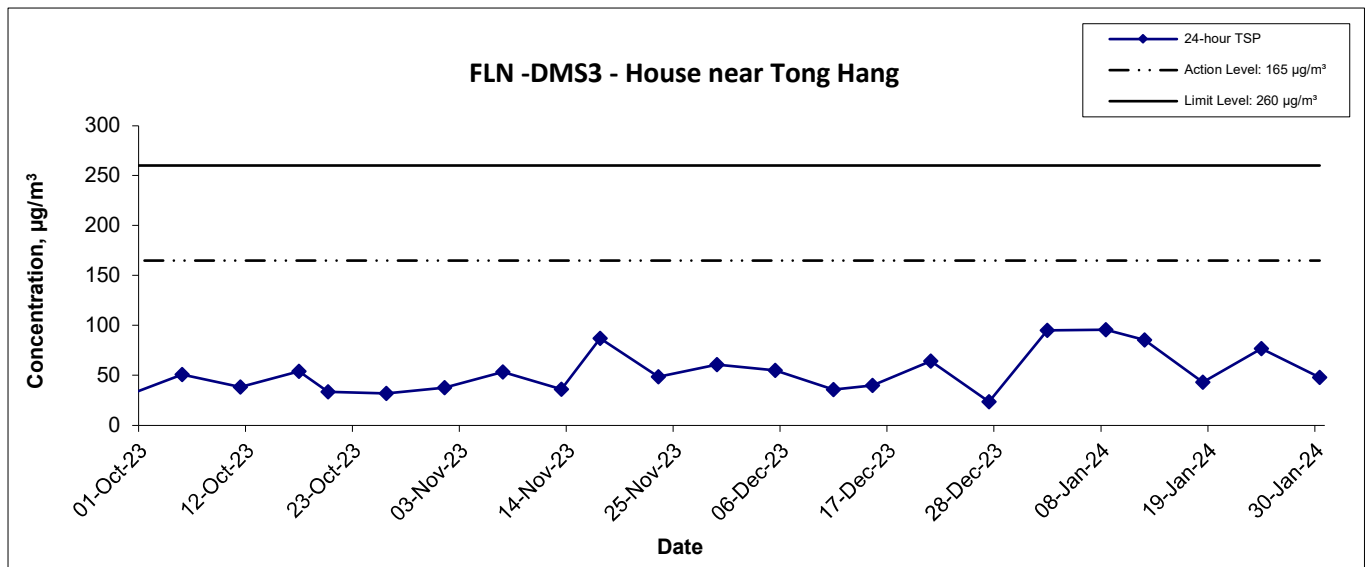
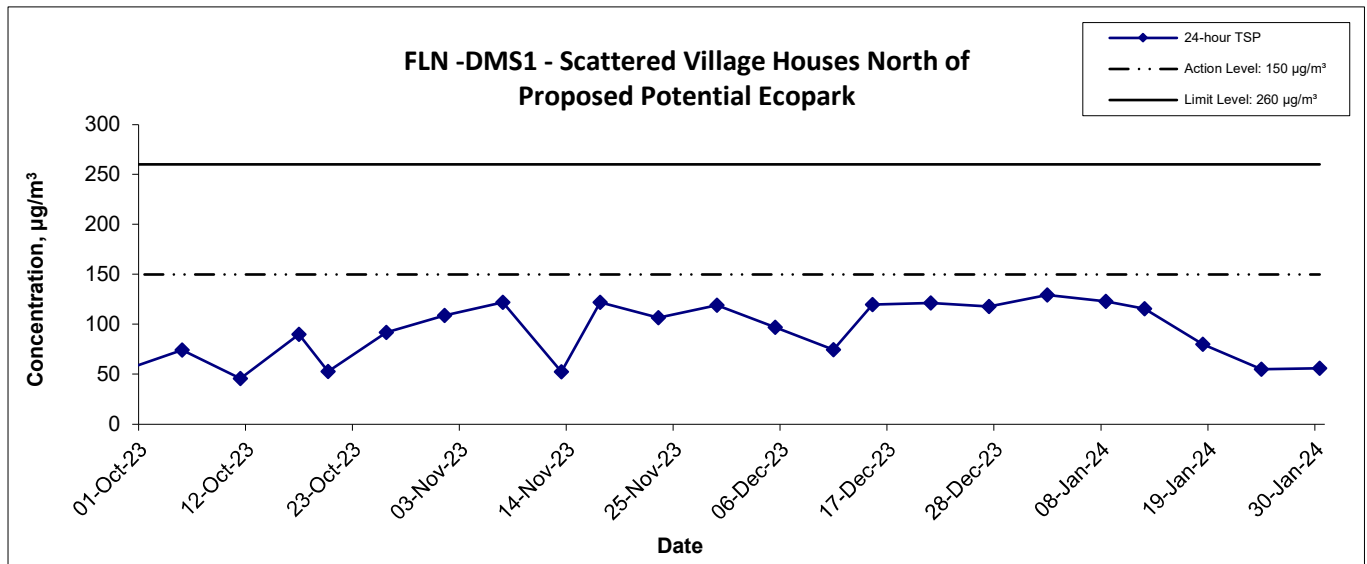
Title	Service Contract No. NDO 04/2019		
	Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas		
	Graphical Presentation of 1-hour TSP Monitoring Results		
Scale	N.T.S		Project No.
	Date		WMA20002
Jan 24		Appendix	E
			


1-hr TSP Concentration Levels



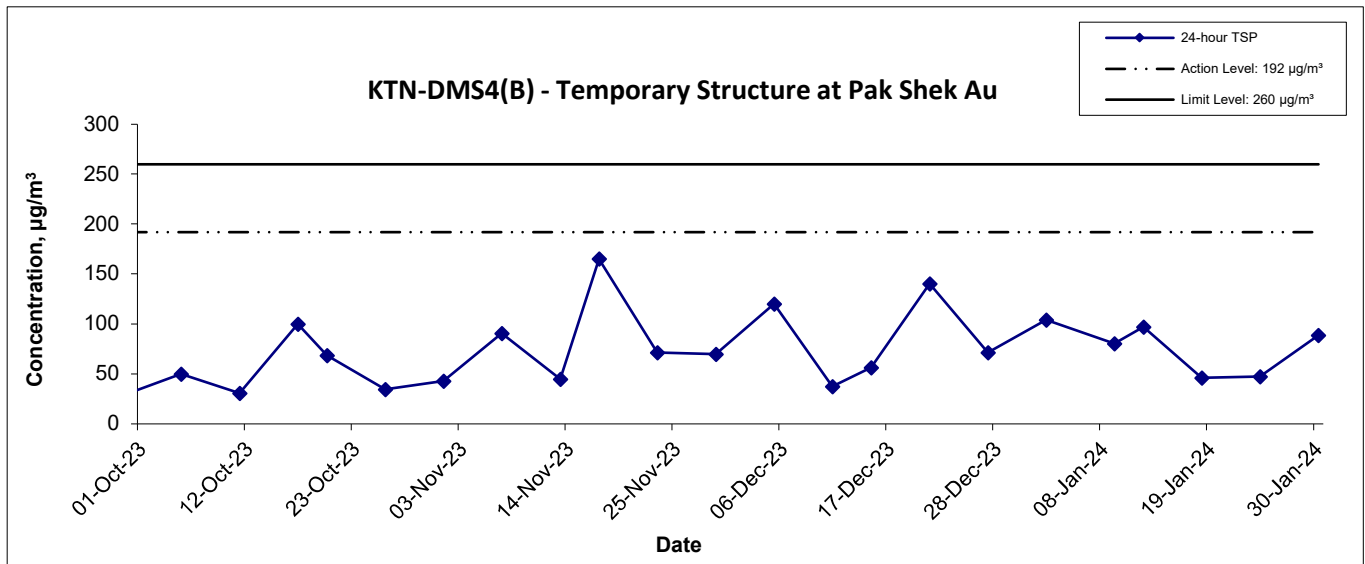
Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale	Project No.	
	N.T.S	WMA20002	
	Date	Appendix	
	Jan 24	E	


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	Project No. WMA20002	
	Date Jan 24	Appendix E	

24-hr TSP Concentration Levels

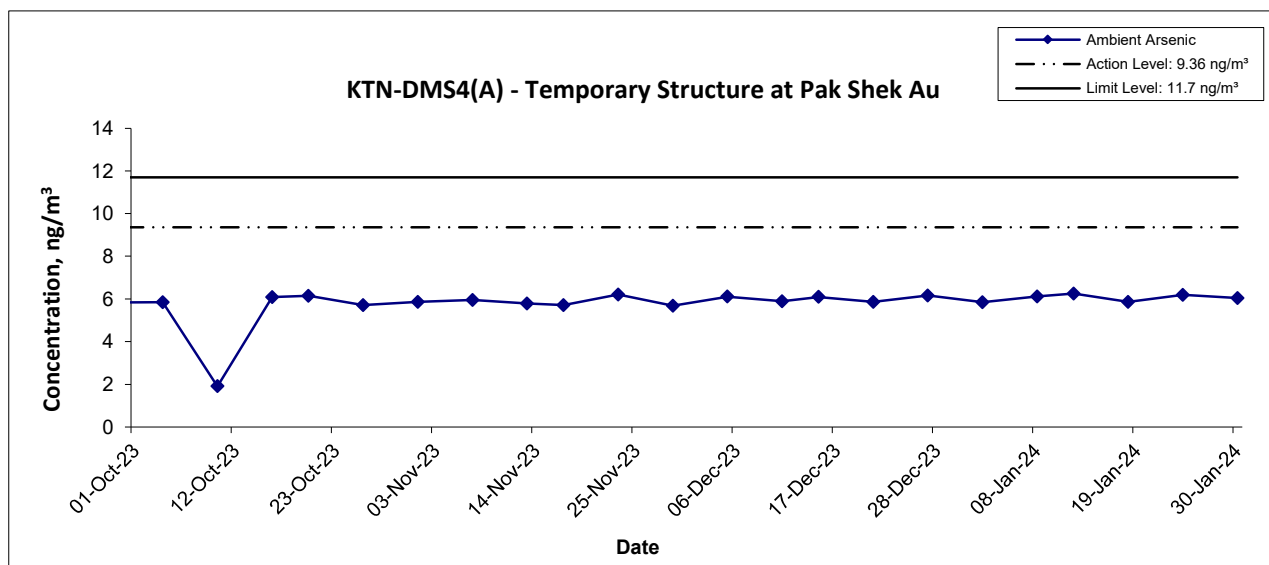



Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale	Project No.	
	N.T.S	WMA20002	
	Date	Appendix	
	Jan 24	E	

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-Jan-24	9.1	1557.7	5.84
8-Jan-24	9.5	1553.7	6.11
12-Jan-24	9.7	1553.1	6.25
18-Jan-24	9.1	1554.3	5.85
24-Jan-24	9.4	1517.3	6.20
30-Jan-24	9.3	1540.7	6.04

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	Project No. WMA20002	 consulting . testing . research
	Date Jan 24	Appendix E	

TEST REPORT

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

Report No.:	39508
Date of Issue:	2024-01-09
Date Received:	2024-01-03
Date Tested:	2024-01-03
Date Completed:	2024-01-09

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39508
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	230525/027
Sample No.	39508-1
Arsenic (µg)	9.1

Remarks: 1) < = less than

2) Results for the test material reported as received

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

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

Report No.: QC39508
Date of Issue: 2024-01-09
Date Received: 2024-01-03
Date Tested: 2024-01-03
Date Completed: 2024-01-09

Page: 1 of 2

ATTN: Ms Ivy Tam

QC report:
Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	87	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	97	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 (%)	95	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39508

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39508
Date of Issue:	2024-01-09
Date Received:	2024-01-03
Date Tested:	2024-01-03
Date Completed:	2024-01-09

Page: 2 of 2

QC report: Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	104	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	105	90-110

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39508

*****END OF REP ORT*****

TEST REPORT

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

Report No.:	39558
Date of Issue:	2024-01-15
Date Received:	2024-01-09
Date Tested:	2024-01-09
Date Completed:	2024-01-15

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39558
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	230525/028
Sample No.	39558-1
Arsenic (µg)	9.5

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

TEST REPORT

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

Report No.:	QC39558
Date of Issue:	2024-01-15
Date Received:	2024-01-09
Date Tested:	2024-01-09
Date Completed:	2024-01-15

Page: 1 of 2

ATTN: Ms Ivy Tam

QC report:
Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	112	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	109	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 39558

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39558
Date of Issue:	2024-01-15
Date Received:	2024-01-09
Date Tested:	2024-01-09
Date Completed:	2024-01-15

Page: 2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	108	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	4	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	99	90-110

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39558

*****END OF REPORT*****

TEST REPORT

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

Report No.:	39691
Date of Issue:	2024-01-24
Date Received:	2024-01-18
Date Tested:	2024-01-18
Date Completed:	2024-01-24

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39691
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	230525/029
Sample No.	39691-1
Arsenic (µg)	9.7

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

TEST REPORT

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

Report No.:	QC39691
Date of Issue:	2024-01-24
Date Received:	2024-01-18
Date Tested:	2024-01-18
Date Completed:	2024-01-24

Page: 1 of 2

ATTN: Ms Ivy Tam

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	93	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	97	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 (%)	100	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39691

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39691
Date of Issue:	2024-01-24
Date Received:	2024-01-18
Date Tested:	2024-01-18
Date Completed:	2024-01-24

Page: 2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	108	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	5	RPD \leq 20%

Serial dilution check

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

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39691

*****END OF REPORT*****

TEST REPORT

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

Report No.:	39692
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39692
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	230525/030
Sample No.	39692-1
Arsenic (µg)	9.1

Remarks: 1) < = less than

2) Results for the test material reported as received

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

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

Report No.:	QC39692
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

Page: 1 of 2

ATTN: Ms Ivy Tam
QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (µg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (µg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	102	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	95	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	100	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39692

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39692
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

Page: 2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	101	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	3	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	97	90-110

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39692

*****END OF REPORT*****

TEST REPORT

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

Report No.:	39693
Date of Issue:	2024-02-01
Date Received:	2024-01-30
Date Tested:	2024-01-30
Date Completed:	2024-02-01

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39693
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	230525/031
Sample No.	39693-1
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

TEST REPORT**APPLICANT:** Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong**ATTN:** Ms Ivy Tam**QC report:****Method Blank**

Parameter	Method Blank	Acceptance
Arsenic (µg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (µg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	86	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	99	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	100	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39693

PREPARED AND CHECKED BY:For and On Behalf of **WELLAB Ltd.**
PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39693
Date of Issue:	2024-02-01
Date Received:	2024-01-30
Date Tested:	2024-01-30
Date Completed:	2024-02-01

Page: 2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	100	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	9	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	99	90-110

Remarks: 1) \leq = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39693

*****END OF REPORT*****

TEST REPORT

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

Report No.:	39694
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39694
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	230525/032
Sample No.	39694-1
Arsenic (µg)	9.3

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

TEST REPORT

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

Report No.:	QC39694
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01

Page: 1 of 2

ATTN: Ms Ivy Tam

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (µg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (µg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	101	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	93	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 (%)	100	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39694

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39694
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	81	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	6	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	95	90-110

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39694

*****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}
3-Jan-24	Sunny	11:25	66.7	70.3	57.6	67.4	69.9
		11:30	62.3	65.8	57.0		
		11:35	69.1	73.1	60.9		
		11:40	67.6	71.2	59.5		
		11:45	69.8	71.4	57.4		
		11:50	65.0	68.6	56.7		
9-Jan-24	Sunny	10:30	67.2	70.0	62.0	67.3	
		10:35	68.4	71.1	59.1		
		10:40	65.8	69.1	58.8		
		10:45	67.3	70.1	59.8		
		10:50	68.4	71.6	61.1		
		10:55	66.2	68.9	61.4		
15-Jan-24	Sunny	10:45	69.9	71.3	59.6	67.8	
		10:50	67.4	71.2	59.9		
		10:55	67.5	71.3	59.9		
		11:00	67.2	70.4	58.9		
		11:05	67.6	70.8	58.7		
		11:10	66.6	70.5	57.8		
25-Jan-24	Cloudy	11:00	65.0	69.7	54.8	66.3	
		11:05	64.9	69.5	55.0		
		11:10	67.9	70.0	62.5		
		11:15	67.6	69.4	61.0		
		11:20	64.7	67.5	56.7		
		11:25	66.6	70.5	56.1		
31-Jan-24	Cloudy	11:20	68.3	70.4	62.8	67.8	
		11:25	68.7	71.3	63.1		
		11:30	67.9	69.5	62.1		
		11:35	66.7	68.5	62.3		
		11:40	67.5	71.6	62.9		
		11:45	67.7	70.9	62.8		

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}
3-Jan-24	Sunny	13:00	58.6	59.7	56.5	57.3	59.6
		13:05	57.9	58.5	56.3		
		13:10	56.5	56.9	56.2		
		13:15	56.5	57.0	56.1		
		13:20	57.1	57.8	56.4		
		13:25	56.8	57.2	56.3		
9-Jan-24	Sunny	09:00	65.0	65.5	64.5	65.0	
		09:05	65.1	65.6	64.6		
		09:10	65.2	66.0	64.5		
		09:15	65.0	65.7	64.4		
		09:20	64.7	65.2	64.3		
		09:25	64.8	65.3	64.3		
15-Jan-24	Sunny	13:15	64.1	64.8	63.3	64.3	
		13:20	64.3	65.1	63.7		
		13:25	64.4	65.5	63.4		
		13:30	64.5	65.3	63.6		
		13:35	64.4	65.1	63.7		
		13:40	64.1	64.6	63.5		
25-Jan-24	Cloudy	09:15	56.1	57.2	52.9	54.2	
		09:20	53.8	54.7	52.3		
		09:25	52.7	53.8	50.4		
		09:30	53.6	54.5	52.2		
		09:35	54.5	56.0	53.3		
		09:40	53.6	54.5	52.1		
31-Jan-24	Cloudy	16:30	65.6	66.3	64.9	65.3	
		16:35	65.4	66.0	64.8		
		16:40	65.5	66.1	65.0		
		16:45	65.1	65.8	64.5		
		16:50	65.0	65.5	64.4		
		16:55	65.0	65.7	64.3		

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}
2-Jan-24	Sunny	09:00	60.3	63.3	56.4	61.9	58.6
		09:05	59.1	61.7	55.9		
		09:10	62.5	65.0	57.4		
		09:15	61.8	64.9	57.6		
		09:20	63.6	67.0	58.1		
		09:25	62.6	64.7	57.4		
8-Jan-24	Sunny	13:30	54.4	55.0	53.8	54.4	
		13:35	54.7	55.4	54.1		
		13:40	54.7	55.6	53.9		
		13:45	54.0	54.6	53.4		
		13:50	54.8	55.8	53.7		
		13:55	54.0	54.6	53.4		
18-Jan-24	Sunny	10:30	53.4	54.7	52.3	53.0	
		10:35	52.8	53.6	52.1		
		10:40	54.6	56.7	52.6		
		10:45	52.8	53.8	51.8		
		10:50	51.9	52.4	51.5		
		10:55	51.9	52.3	51.6		
24-Jan-24	Cloudy	13:00	52.3	52.7	51.9	54.4	
		13:05	52.7	53.1	52.1		
		13:10	53.0	53.6	52.2		
		13:15	53.0	53.2	52.0		
		13:20	55.3	57.9	52.3		
		13:25	57.6	60.7	52.3		
30-Jan-24	Cloudy	09:35	51.3	53.9	46.9	57.8	
		09:40	55.9	58.5	45.8		
		09:45	61.6	64.7	47.3		
		09:50	58.4	61.1	51.3		
		09:55	57.4	58.8	50.0		
		10:00	56.3	58.1	51.3		

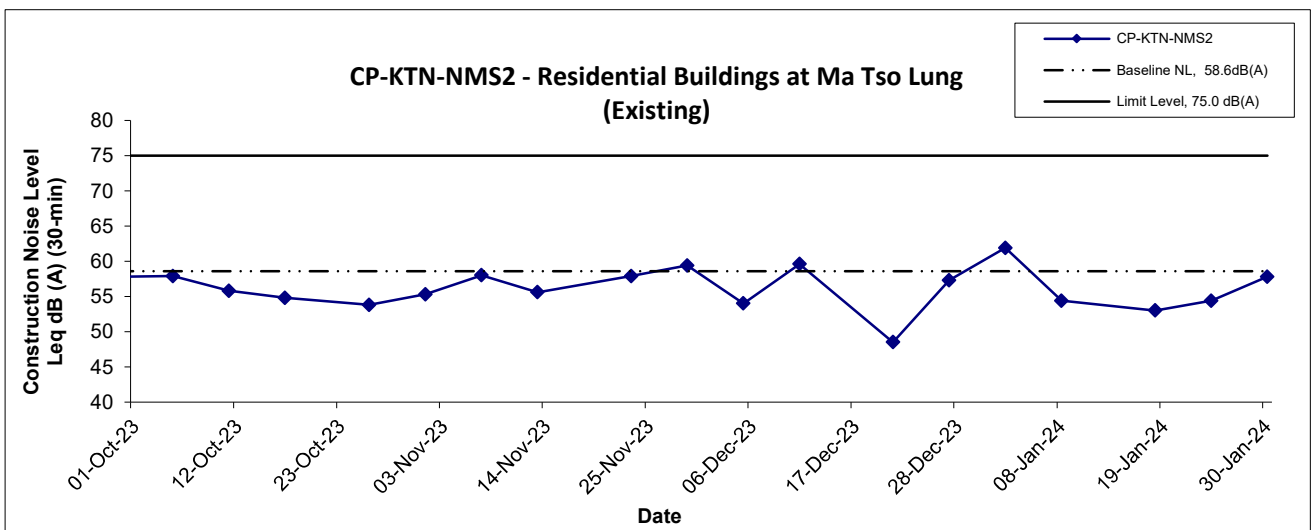
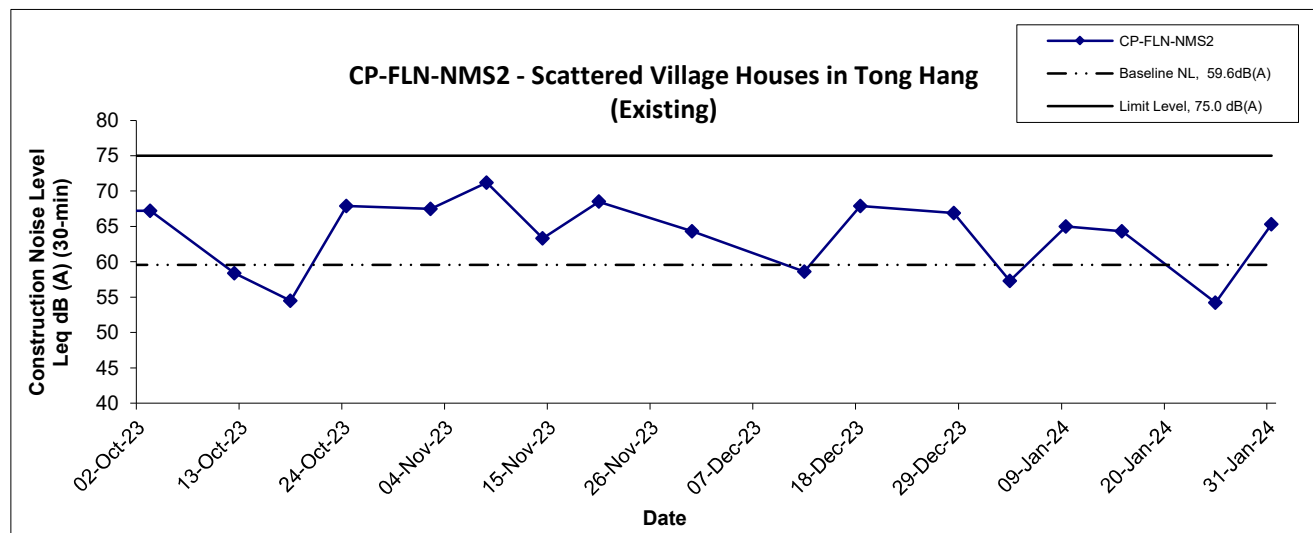
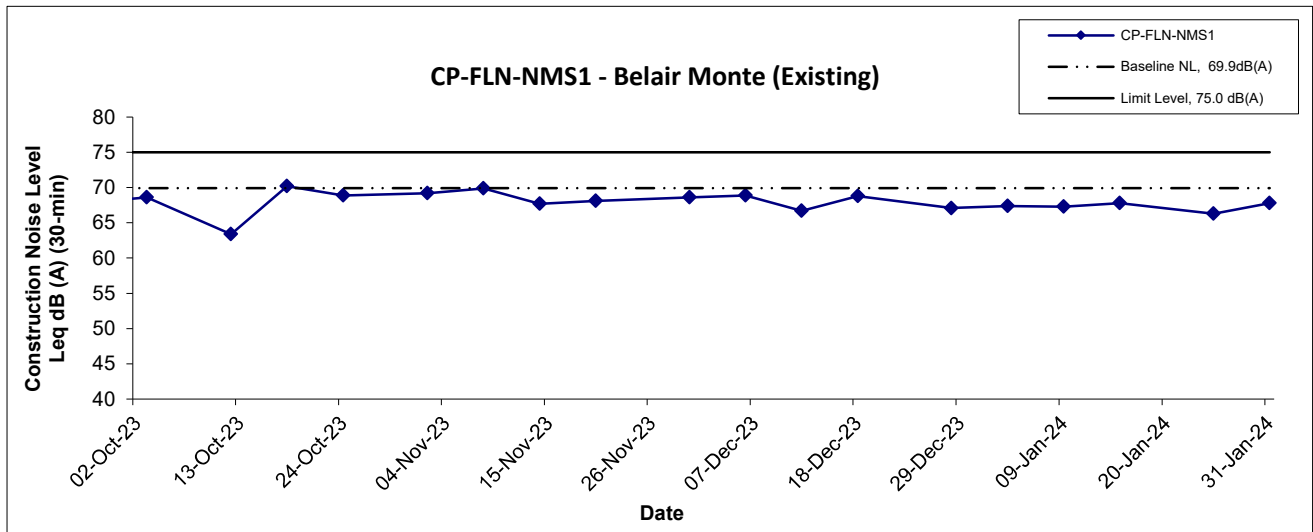
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Jan-24	Sunny	09:00	53.4	54.3	52.4	53.6	51.6
		09:05	53.3	54.0	52.5		
		09:10	53.6	55.5	52.5		
		09:15	53.5	54.3	52.7		
		09:20	54.1	55.4	52.8		
		09:25	53.5	54.1	52.7		
8-Jan-24	Sunny	14:10	49.8	51.3	43.9	49.1	
		14:15	48.4	52.0	43.5		
		14:20	48.2	51.0	44.8		
		14:25	48.4	50.8	45.1		
		14:30	47.3	49.5	44.6		
		14:35	51.3	53.1	46.9		
18-Jan-24	Sunny	09:50	48.7	50.8	44.1	49.2	
		09:55	48.7	51.1	45.6		
		10:00	48.4	49.2	43.9		
		10:05	46.3	48.0	44.4		
		10:10	51.9	52.5	45.1		
		10:15	49.2	51.3	45.5		
24-Jan-24	Cloudy	13:40	47.4	49.9	44.4	47.1	
		13:45	46.4	48.4	44.2		
		13:50	45.8	47.5	43.4		
		13:55	46.1	47.8	44.2		
		14:00	47.8	49.4	45.8		
		14:05	48.5	50.6	45.4		
30-Jan-24	Cloudy	10:45	47.1	49.1	44.7	47.9	
		10:50	47.9	50.9	44.7		
		10:55	48.7	51.3	45.5		
		11:00	48.0	50.2	45.3		
		11:05	48.4	50.4	46.1		
		11:10	47.1	49.0	44.7		


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}
2-Jan-24	Sunny	10:10	58.5	60.4	56.6	58.2	57.2
		10:15	57.1	58.1	56.2		
		10:20	57.8	59.0	56.4		
		10:25	58.7	60.5	56.8		
		10:30	58.3	59.5	57.0		
		10:35	58.7	60.9	56.8		
8-Jan-24	Sunny	15:45	53.7	56.4	49.8	52.2	
		15:50	48.9	50.2	47.8		
		15:55	51.3	53.5	47.9		
		16:00	49.9	52.0	47.8		
		16:05	55.1	57.6	48.8		
		16:10	51.0	53.7	48.0		
18-Jan-24	Sunny	09:00	55.4	55.7	54.9	55.8	
		09:05	56.3	57.5	55.1		
		09:10	55.3	55.6	54.9		
		09:15	55.4	55.8	55.0		
		09:20	56.0	56.9	55.1		
		09:25	56.3	57.0	54.9		
24-Jan-24	Cloudy	15:15	54.8	55.1	50.0	55.1	
		15:20	58.1	58.4	50.2		
		15:25	52.2	52.4	49.7		
		15:30	55.8	56.8	49.9		
		15:35	53.9	57.4	50.2		
		15:40	53.1	54.9	50.7		
30-Jan-24	Cloudy	16:30	53.0	54.2	50.8	55.3	
		16:35	55.6	58.1	51.6		
		16:40	55.4	58.1	51.6		
		16:45	56.6	60.2	52.2		
		16:50	54.2	55.7	51.6		
		16:55	56.0	58.7	51.8		

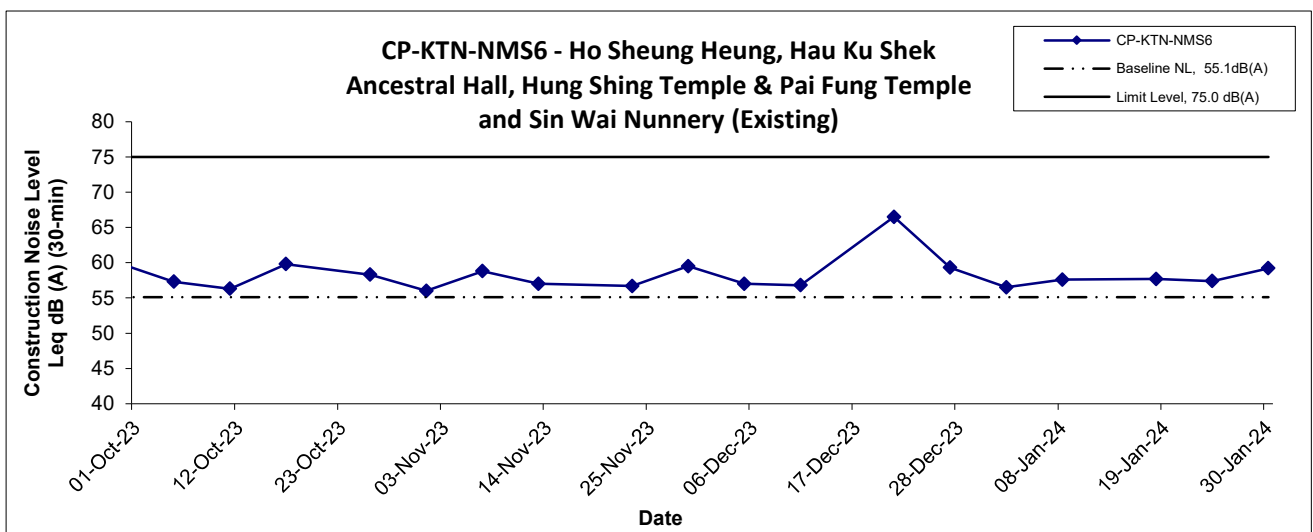
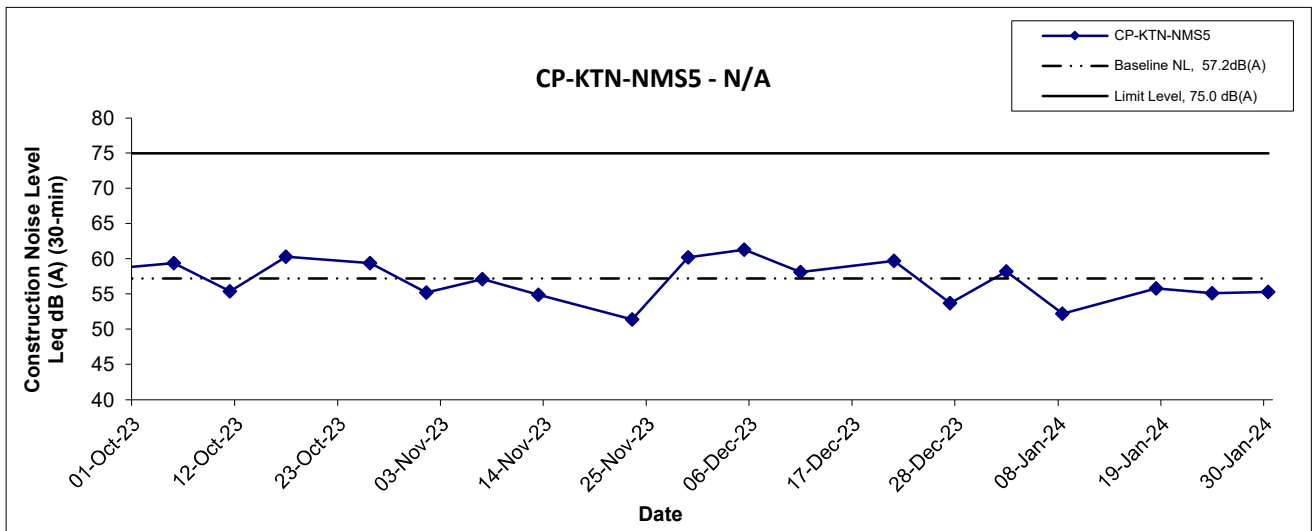
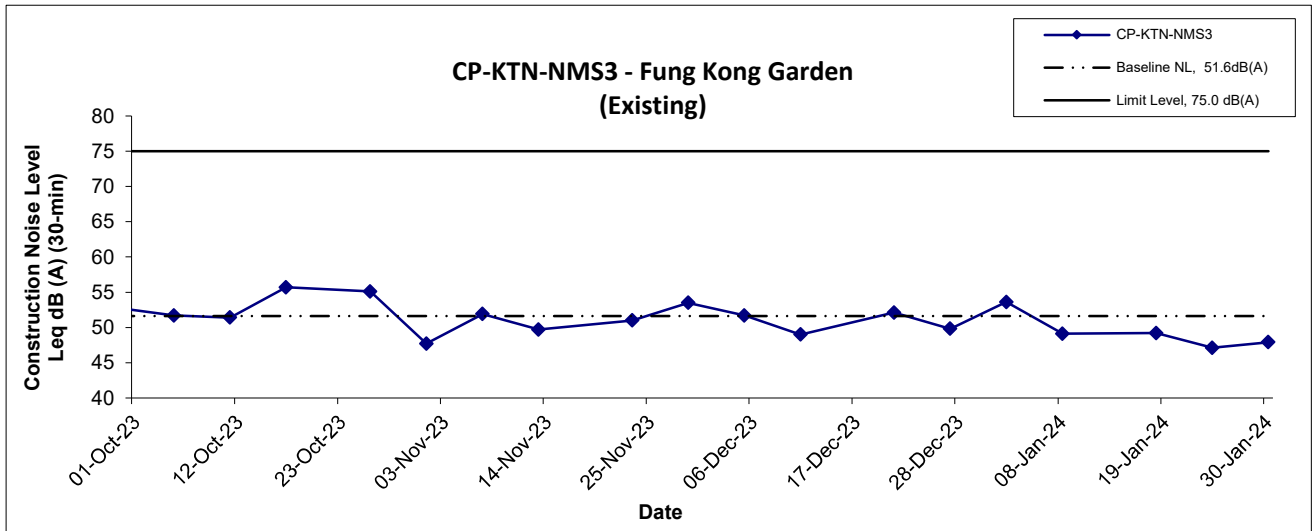
Location CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
2-Jan-24	Sunny	09:45	57.5	60.0	52.2	56.5	55.1
		09:50	54.7	56.5	51.9		
		09:55	56.6	59.2	52.8		
		10:00	57.6	60.3	52.6		
		10:05	57.5	58.2	53.0		
		10:10	53.2	54.5	51.6		
8-Jan-24	Sunny	14:55	57.4	60.6	52.8	57.6	
		15:00	53.9	54.5	52.6		
		15:05	56.0	56.3	52.4		
		15:10	55.6	56.9	52.4		
		15:15	60.7	65.6	53.4		
		15:20	58.4	61.1	52.4		
18-Jan-24	Sunny	11:20	59.8	61.6	52.4	57.7	
		11:25	58.4	61.3	51.4		
		11:30	57.2	59.7	51.4		
		11:35	52.0	53.1	51.2		
		11:40	56.9	57.9	51.2		
		11:45	58.4	60.7	51.3		
24-Jan-24	Cloudy	14:25	55.7	55.9	54.7	57.4	
		14:30	57.3	57.5	54.7		
		14:35	57.1	58.6	55.0		
		14:40	56.4	57.7	55.2		
		14:45	60.6	62.5	54.9		
		14:50	54.6	56.1	54.8		
30-Jan-24	Cloudy	11:30	49.8	52.1	45.1	59.2	
		11:35	58.2	60.2	45.6		
		11:40	51.7	55.1	46.6		
		11:45	59.8	64.5	47.2		
		11:50	61.0	63.3	45.7		
		11:55	62.7	67.9	56.6		

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	Project No. WMA20002	
	Date Jan 24	Appendix F	

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	Project No. WMA20002	
	Date Jan 24	Appendix F	

**APPENDIX G
WATER QUALITY MONITORING
RESULTS AND GRAPHICAL
PRESENTATIONS**

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SYR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Arsenic (µg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jan-24	Sunny	11:53	Middle	0.1	23.6 23.6	23.6	7.6 7.6	7.6	0.4 0.4	0.4	76.0 76.0	76.0	6.4 6.4	6.4	10.1 10.1	10.1	3 <2.5	2.8	2 2	2.0
4-Jan-24	Sunny	11:46	Middle	0.1	23.7 23.7	23.7	7.5 7.5	7.5	0.5 0.5	0.5	82.0 82.0	82.0	6.9 6.9	6.9	9.2 9.2	9.2	6 6	6.0	1 1	1.0
6-Jan-24	Sunny	10:01	Middle	0.1	22.7 22.7	22.7	7.4 7.4	7.4	0.1 0.1	0.1	72.9 72.7	72.8	6.3 6.3	6.3	6.6 6.6	6.6	6 5	5.5	5 5	5.0
8-Jan-24	Sunny	11:04	Middle	0.2	20.1 20.0	20.1	8.6 8.6	8.6	0.4 0.4	0.4	49.8 49.2	49.5	4.5 4.5	4.5	4.8 4.6	4.7	7 6	6.5	5 6	5.5
10-Jan-24	Sunny	11:24	Middle	0.1	20.7 20.7	20.7	7.0 7.0	7.0	0.1 0.1	0.1	75.7 75.4	75.6	6.8 6.8	6.8	3.9 3.9	3.9	4 3	3.5	4 3	3.5
12-Jan-24	Fine	09:23	Middle	0.1	20.8 20.8	20.8	7.0 7.0	7.0	0.2 0.2	0.2	64.3 64.1	64.2	5.8 5.7	5.8	4.2 4.2	4.2	4 3	3.5	2 2	2.0
15-Jan-24	Sunny	10:14	Middle	0.2	19.3 19.4	19.4	8.2 8.2	8.2	0.2 0.2	0.2	61.0 60.9	61.0	5.6 5.6	5.6	8.9 9.0	9.0	5 5	5.0	6 6	6.0
17-Jan-24	Sunny	11:37	Middle	0.1	23.4 23.5	23.5	8.1 8.1	8.1	0.2 0.2	0.2	46.8 46.6	46.7	4.0 4.0	4.0	9.7 9.8	9.8	8 8	8.0	2 2	2.0
19-Jan-24	Sunny	13:11	Middle	0.1	23.0 23.0	23.0	8.3 8.3	8.3	0.1 0.1	0.1	60.2 60.4	60.3	5.2 5.2	5.2	18.9 18.9	18.9	15 13	14.0	9 9	9.0
22-Jan-24	Cloudy	14:40	Middle	0.1	19.0 19.0	19.0	7.6 7.6	7.6	0.2 0.2	0.2	35.4 35.1	35.3	3.3 3.3	3.3	11.4 11.4	11.4	30 28	29.0	9 8	8.5
24-Jan-24	Cloudy	11:28	Middle	0.1	13.9 13.9	13.9	7.4 7.4	7.4	0.2 0.2	0.2	58.6 58.4	58.5	6.0 6.0	6.0	9.0 9.0	9.0	3 <2.5	2.8	1 2	1.5
26-Jan-24	Cloudy	10:05	Middle	0.1	17.0 17.0	17.0	8.4 8.4	8.4	0.2 0.2	0.2	40.4 40.1	40.3	3.9 3.9	3.9	28.3 28.3	28.3	24 22	23.0	8 7	7.5
29-Jan-24	Cloudy	10:50	Middle	0.1	16.0 16.0	16.0	7.4 7.4	7.4	0.1 0.1	0.1	74.9 74.8	74.9	7.4 7.4	7.4	9.1 9.2	9.2	7 6	6.5	5 5	5.0
31-Jan-24	Cloudy	09:19	Middle	0.1	19.9 19.9	19.9	7.8 7.8	7.8	0.2 0.2	0.2	67.4 67.2	67.3	6.1 6.1	6.1	14.5 14.6	14.6	19 18	18.5	6 6	6.0

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
2-Jan-24	Sunny	12:12	Middle	0.1	22.6 22.6	22.6	7.4 7.3	7.4	0.1 0.1	0.1	99.8 99.8	99.8	8.6 8.6	8.6	14.2 14.3	14.3	10 10	10.0	2 2	2.0
4-Jan-24	Sunny	12:02	Middle	0.4	22.7 22.7	22.7	7.4 7.4	7.4	0.1 0.1	0.1	90.4 90.4	90.4	7.8 7.8	7.8	13.7 13.7	13.7	10 10	10.0	2 2	2.0
6-Jan-24	Sunny	10:20	Middle	0.4	22.8 22.8	22.8	7.7 7.7	7.7	0.2 0.2	0.2	72.6 72.6	72.6	6.3 6.3	6.3	10.1 10.1	10.1	13 14	13.5	1 1	1.0
8-Jan-24	Sunny	11:18	Middle	0.4	20.1 20.1	20.1	8.6 8.6	8.6	0.2 0.2	0.2	75.1 74.5	74.8	6.8 6.8	6.8	11.1 11.0	11.1	14 13	13.5	3 4	3.5
10-Jan-24	Sunny	11:07	Middle	0.3	21.4 21.4	21.4	7.5 7.4	7.5	0.3 0.3	0.3	87.7 87.7	87.7	7.8 7.8	7.8	15.8 15.9	15.9	22 23	22.5	4 3	3.5
12-Jan-24	Fine	09:40	Middle	0.4	21.6 21.7	21.7	7.4 7.4	7.4	0.3 0.3	0.3	79.7 79.9	79.8	7.0 7.0	7.0	11.9 11.8	11.9	3 3	3.0	2 2	2.0
15-Jan-24	Sunny	10:29	Middle	0.1	20.7 20.7	20.7	8.2 8.2	8.2	0.1 0.1	0.1	92.8 92.7	92.8	8.3 8.3	8.3	16.3 17.5	16.9	14 15	14.5	7 6	6.5
17-Jan-24	Sunny	11:59	Middle	0.4	25.2 25.2	25.2	7.3 7.3	7.3	0.2 0.2	0.2	83.4 83.5	83.5	6.9 6.9	6.9	17.0 17.1	17.1	22 22	22.0	2 1	1.5
19-Jan-24	Sunny	13:30	Middle	0.2	24.8 24.8	24.8	7.3 7.3	7.3	0.2 0.2	0.2	76.6 76.5	76.6	6.3 6.3	6.3	23.8 23.9	23.9	27 28	27.5	3 3	3.0
22-Jan-24	Cloudy	14:58	Middle	0.3	18.8 18.8	18.8	7.4 7.4	7.4	0.3 0.3	0.3	73.5 73.3	73.4	6.8 6.8	6.8	12.0 12.0	12.0	52 46	49.0	2 3	2.5
24-Jan-24	Cloudy	11:41	Middle	0.8	13.4 13.4	13.4	7.3 7.3	7.3	0.1 0.1	0.1	71.2 71.2	71.2	7.4 7.4	7.4	14.0 14.1	14.1	10 10	10.0	2 2	2.0
26-Jan-24	Cloudy	10:22	Middle	0.7	16.9 16.9	16.9	7.6 7.6	7.6	0.2 0.2	0.2	83.5 83.4	83.5	8.1 8.1	8.1	22.4 22.4	22.4	21 20	20.5	3 4	3.5
29-Jan-24	Cloudy	11:04	Middle	0.5	16.1 16.1	16.1	7.4 7.4	7.4	0.2 0.2	0.2	77.6 77.1	77.4	7.6 7.6	7.6	28.5 28.4	28.5	20 19	19.5	3 2	2.5
31-Jan-24	Cloudy	09:32	Middle	0.2	20.2 20.2	20.2	7.2 7.2	7.2	0.2 0.2	0.2	70.2 69.9	70.1	6.4 6.3	6.4	27.0 27.0	27.0	23 26	24.5	3 4	3.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jan-24	Sunny	14:26	Middle	0.2	22.4 22.4	22.4	7.3 7.3	7.3	0.1 0.1	0.1	99.1 99.1	99.1	8.6 8.6	8.6	6.1 6.1	6.1	3 <2.5	2.8
4-Jan-24	Sunny	12:53	Middle	0.2	22.4 22.4	22.4	7.3 7.3	7.3	0.2 0.2	0.2	89.3 89.3	89.3	7.8 7.7	7.8	7.1 7.1	7.1	7 6	6.5
6-Jan-24	Sunny	11:24	Middle	0.2	22.4 22.4	22.4	7.7 7.7	7.7	0.1 0.1	0.1	84.2 84.5	84.4	7.3 7.3	7.3	8.1 8.1	8.1	5 4	4.5
8-Jan-24	Sunny	13:12	Middle	0.2	21.3 21.3	21.3	8.1 8.0	8.1	0.1 0.1	0.1	110.0 111.0	110.5	9.7 9.8	9.8	5.9 5.9	5.9	5 5	5.0
10-Jan-24	Sunny	09:46	Middle	0.1	19.4 19.4	19.4	7.7 7.7	7.7	0.3 0.3	0.3	101.6 101.5	101.6	9.3 9.3	9.3	9.1 9.2	9.2	4 4	4.0
12-Jan-24	Fine	10:47	Middle	0.2	19.6 19.7	19.7	7.6 7.6	7.6	0.2 0.2	0.2	90.0 90.0	90.0	8.2 8.2	8.2	6.9 7.0	7.0	3 3	3.0
15-Jan-24	Sunny	12:08	Middle	0.2	20.4 20.4	20.4	7.8 7.7	7.8	0.1 0.1	0.1	107.5 107.8	107.7	9.7 9.7	9.7	11.5 11.6	11.6	3 4	3.5
17-Jan-24	Sunny	13:01	Middle	0.2	24.5 24.5	24.5	7.4 7.3	7.4	0.1 0.1	0.1	111.5 111.6	111.6	9.3 9.3	9.3	7.8 7.8	7.8	8 8	8.0
19-Jan-24	Sunny	14:45	Middle	0.2	24.5 24.5	24.5	7.4 7.4	7.4	0.1 0.1	0.1	114.4 114.6	114.5	9.5 9.6	9.6	8.0 8.0	8.0	14 16	15.0
22-Jan-24	Cloudy	13:26	Middle	0.2	19.3 19.3	19.3	7.8 7.8	7.8	0.2 0.2	0.2	114.4 114.5	114.5	10.5 10.6	10.6	6.7 6.7	6.7	5 4	4.5
24-Jan-24	Cloudy	12:51	Middle	0.2	14.3 14.3	14.3	7.3 7.3	7.3	0.7 0.7	0.7	113.3 113.5	113.4	11.6 11.6	11.6	6.4 6.6	6.5	<2.5 <2.5	<2.5
26-Jan-24	Cloudy	11:18	Middle	0.2	18.2 18.2	18.2	7.5 7.5	7.5	0.1 0.1	0.1	102.9 103.2	103.1	9.7 9.7	9.7	6.0 6.0	6.0	5 4	4.5
29-Jan-24	Cloudy	12:10	Middle	0.2	16.5 16.6	16.6	7.2 7.2	7.2	0.1 0.1	0.1	104.7 104.1	104.4	10.2 10.2	10.2	5.8 5.8	5.8	3 4	3.5
31-Jan-24	Cloudy	10:44	Middle	0.2	20.9 21.0	21.0	7.3 7.3	7.3	0.1 0.1	0.1	105.2 105.3	105.3	9.4 9.4	9.4	6.9 6.9	6.9	9 10	9.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-IS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jan-24	Sunny	12:48	Middle	0.2	20.6 20.6	20.6	7.2 7.2	7.2	0.1 0.1	0.1	73.7 73.4	73.6	6.6 6.6	6.6	6.5 6.5	6.5	<2.5 <2.5	<2.5
4-Jan-24	Sunny	12:34	Middle	0.2	21.8 21.8	21.8	7.2 7.2	7.2	0.1 0.1	0.1	76.4 76.2	76.3	6.7 6.7	6.7	7.7 7.7	7.7	<2.5 <2.5	<2.5
6-Jan-24	Sunny	10:57	Middle	0.2	23.2 23.2	23.2	7.3 7.3	7.3	0.1 0.1	0.1	83.3 83.1	83.2	7.1 7.1	7.1	8.6 8.6	8.6	3 3	3.0
8-Jan-24	Sunny	11:35	Middle	0.7	19.7 19.7	19.7	8.4 8.4	8.4	0.1 0.1	0.1	73.6 73.1	73.4	6.7 6.7	6.7	6.0 5.9	6.0	7 7	7.0
10-Jan-24	Sunny	10:36	Middle	0.2	20.7 20.7	20.7	7.3 7.3	7.3	0.1 0.1	0.1	70.4 70.3	70.4	6.3 6.3	6.3	8.1 8.1	8.1	5 4	4.5
12-Jan-24	Fine	10:13	Middle	0.2	20.7 20.7	20.7	7.3 7.3	7.3	0.3 0.3	0.3	67.0 67.0	67.0	6.0 6.0	6.0	6.9 7.0	7.0	3 3	3.0
15-Jan-24	Sunny	10:54	Middle	0.5	20.4 20.4	20.4	8.2 8.2	8.2	0.1 0.1	0.1	78.5 78.5	78.5	7.1 7.1	7.1	7.8 7.9	7.9	3 4	3.5
17-Jan-24	Sunny	12:34	Middle	0.2	23.0 23.0	23.0	7.3 7.3	7.3	0.1 0.1	0.1	86.1 86.2	86.2	7.4 7.4	7.4	6.5 6.5	6.5	9 8	8.5
19-Jan-24	Sunny	14:18	Middle	0.3	22.8 22.8	22.8	7.2 7.2	7.2	0.2 0.2	0.2	82.3 82.3	82.3	7.1 7.1	7.1	9.1 9.1	9.1	5 5	5.0
22-Jan-24	Cloudy	14:16	Middle	0.3	18.4 18.4	18.4	7.3 7.3	7.3	0.1 0.1	0.1	72.6 72.4	72.5	6.8 6.8	6.8	7.2 7.2	7.2	9 8	8.5
24-Jan-24	Cloudy	12:20	Middle	0.4	12.8 12.8	12.8	7.5 7.5	7.5	0.1 0.1	0.1	90.1 90.3	90.2	9.5 9.6	9.6	6.5 6.5	6.5	3 3	3.0
26-Jan-24	Cloudy	11:01	Middle	0.4	16.5 16.5	16.5	7.4 7.4	7.4	0.2 0.2	0.2	77.6 77.7	77.7	7.6 7.6	7.6	6.4 6.3	6.4	5 6	5.5
29-Jan-24	Cloudy	11:37	Middle	0.7	16.0 16.0	16.0	7.1 7.1	7.1	0.1 0.1	0.1	60.4 60.1	60.3	6.0 5.9	6.0	5.6 5.5	5.6	5 5	5.0
31-Jan-24	Cloudy	10:16	Middle	0.3	20.0 20.0	20.0	7.2 7.2	7.2	0.1 0.1	0.1	65.7 65.6	65.7	6.0 6.0	6.0	7.5 7.4	7.5	8 7	7.5

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: SHST-IS2

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jan-24	Sunny	12:37	Middle	0.2	20.3 20.3	20.3	7.5 7.5	7.5	0.1 0.1	0.1	88.1 88.1	88.1	8.0 8.0	8.0	6.3 6.3	6.3	<2.5 <2.5	<2.5
4-Jan-24	Sunny	12:20	Middle	0.2	21.5 21.5	21.5	7.4 7.4	7.4	0.1 0.1	0.1	80.6 80.3	80.5	7.1 7.1	7.1	7.6 7.6	7.6	<2.5 <2.5	<2.5
6-Jan-24	Sunny	10:42	Middle	0.2	22.5 22.5	22.5	7.6 7.6	7.6	0.1 0.1	0.1	86.3 86.3	86.3	7.5 7.5	7.5	8.1 8.2	8.2	3 4	3.5
8-Jan-24	Sunny	11:48	Middle	0.2	19.5 19.5	19.5	8.4 8.4	8.4	0.1 0.1	0.1	87.0 86.9	87.0	8.0 8.0	8.0	5.7 5.7	5.7	5 5	5.0
10-Jan-24	Sunny	10:24	Middle	0.2	21.1 21.1	21.1	7.5 7.5	7.5	0.1 0.1	0.1	80.4 80.1	80.3	7.1 7.1	7.1	7.2 7.2	7.2	3 4	3.5
12-Jan-24	Fine	10:01	Middle	0.2	21.0 21.0	21.0	7.4 7.4	7.4	0.2 0.2	0.2	81.7 81.1	81.4	7.3 7.2	7.3	7.8 7.8	7.8	3 3	3.0
15-Jan-24	Sunny	11:02	Middle	0.2	19.1 19.0	19.1	8.3 8.3	8.3	0.1 0.1	0.1	82.2 81.4	81.8	7.6 7.6	7.6	11.5 11.5	11.5	4 3	3.5
17-Jan-24	Sunny	12:21	Middle	0.3	23.5 23.6	23.6	7.3 7.3	7.3	0.1 0.1	0.1	89.4 89.6	89.5	7.6 7.6	7.6	7.6 7.6	7.6	6 5	5.5
19-Jan-24	Sunny	14:05	Middle	0.3	23.2 23.2	23.2	7.3 7.3	7.3	0.1 0.1	0.1	86.0 86.0	86.0	7.4 7.4	7.4	8.4 8.4	8.4	4 5	4.5
22-Jan-24	Cloudy	14:04	Middle	0.2	17.9 17.9	17.9	7.8 7.8	7.8	0.1 0.1	0.1	90.3 90.2	90.3	8.6 8.6	8.6	7.0 6.9	7.0	5 4	4.5
24-Jan-24	Cloudy	12:05	Middle	0.2	12.9 12.9	12.9	7.5 7.5	7.5	0.1 0.1	0.1	84.1 84.0	84.1	8.9 8.9	8.9	6.3 6.3	6.3	3 3	3.0
26-Jan-24	Cloudy	10:49	Middle	0.2	16.4 16.4	16.4	7.3 7.3	7.3	0.1 0.1	0.1	93.0 93.0	93.0	9.1 9.1	9.1	5.6 5.6	5.6	5 5	5.0
29-Jan-24	Cloudy	11:28	Middle	0.2	14.9 14.9	14.9	7.6 7.5	7.6	0.1 0.1	0.1	85.2 85.0	85.1	8.6 8.6	8.6	6.4 6.3	6.4	<2.5 3	2.8
31-Jan-24	Cloudy	10:04	Middle	0.2	20.1 20.1	20.1	7.4 7.4	7.4	0.1 0.1	0.1	80.3 81.0	80.7	7.3 7.4	7.4	7.7 7.7	7.7	8 8	8.0

Contract No. NDO 04/2019

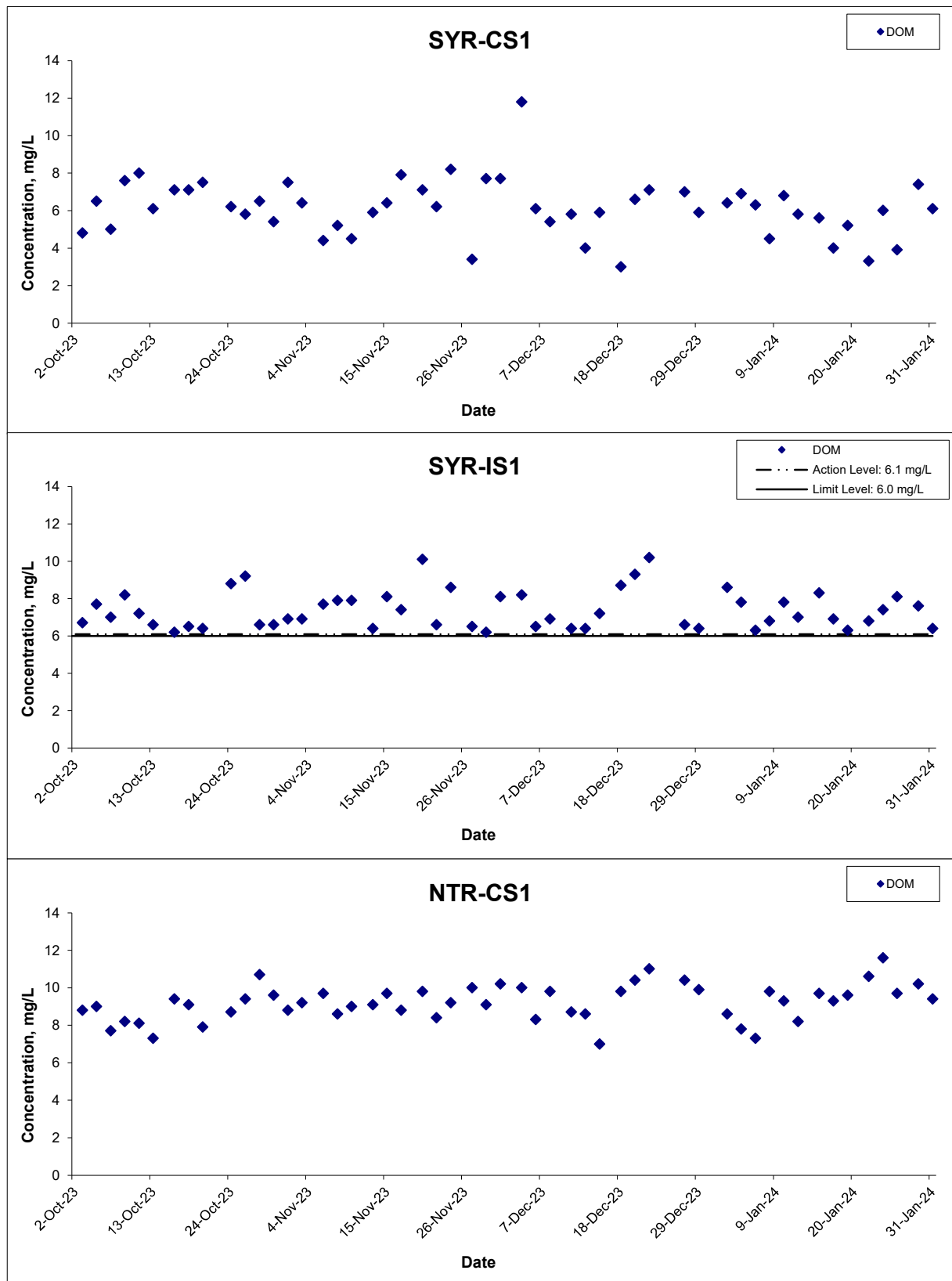
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

Water Quality Monitoring Results

Location: MWR-IS3

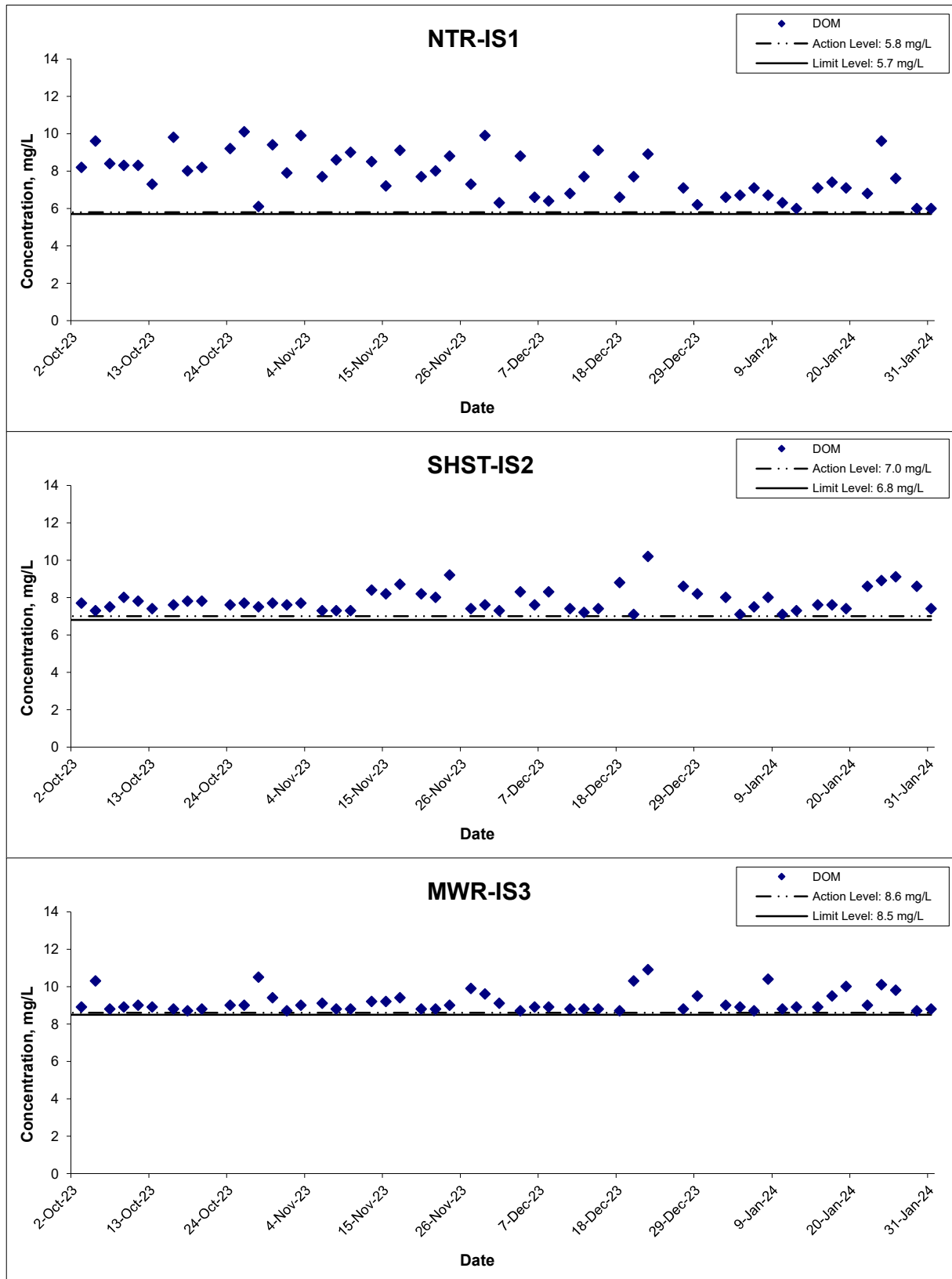
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Jan-24	Sunny	14:38	Middle	0.2	22.2 22.2	22.2	7.4 7.4	7.4	0.1 0.1	0.1	103.1 103.0	103.1	9.0 9.0	9.0	7.8 7.8	7.8	9 10	9.5
4-Jan-24	Sunny	13:04	Middle	0.2	22.3 22.3	22.3	7.4 7.4	7.4	0.1 0.1	0.1	102.3 102.8	102.6	8.9 8.9	8.9	7.1 7.1	7.1	5 5	5.0
6-Jan-24	Sunny	11:38	Middle	0.2	22.2 22.2	22.2	7.8 7.8	7.8	0.1 0.1	0.1	100.3 99.9	100.1	8.7 8.7	8.7	6.2 6.2	6.2	4 4	4.0
8-Jan-24	Sunny	13:03	Middle	0.2	21.7 21.7	21.7	8.3 8.3	8.3	0.1 0.1	0.1	117.9 117.8	117.9	10.4 10.4	10.4	4.2 4.2	4.2	5 5	5.0
10-Jan-24	Sunny	09:56	Middle	0.2	19.6 19.6	19.6	7.8 7.8	7.8	0.1 0.1	0.1	95.9 95.8	95.9	8.8 8.8	8.8	6.4 6.4	6.4	12 14	13.0
12-Jan-24	Fine	11:01	Middle	0.2	19.6 19.6	19.6	7.7 7.7	7.7	0.2 0.2	0.2	95.8 97.5	96.7	8.8 8.9	8.9	5.7 5.7	5.7	3 4	3.5
15-Jan-24	Sunny	11:59	Middle	0.2	21.3 21.3	21.3	7.7 7.7	7.7	0.1 0.1	0.1	100.2 99.6	99.9	8.9 8.8	8.9	11.4 11.5	11.5	10 11	10.5
17-Jan-24	Sunny	13:15	Middle	0.2	24.2 24.2	24.2	7.4 7.4	7.4	0.1 0.1	0.1	112.7 113.0	112.9	9.4 9.5	9.5	8.6 8.6	8.6	9 10	9.5
19-Jan-24	Sunny	14:58	Middle	0.2	24.3 24.3	24.3	7.3 7.3	7.3	0.1 0.1	0.1	119.2 119.2	119.2	10.0 10.0	10.0	8.1 8.1	8.1	10 11	10.5
22-Jan-24	Cloudy	13:40	Middle	0.2	18.7 18.7	18.7	7.7 7.7	7.7	0.2 0.2	0.2	96.6 96.6	96.6	9.0 9.0	9.0	6.9 7.0	7.0	12 14	13.0
24-Jan-24	Cloudy	13:08	Middle	0.2	13.5 13.5	13.5	7.7 7.7	7.7	0.1 0.1	0.1	96.8 96.8	96.8	10.1 10.1	10.1	7.3 7.3	7.3	4 5	4.5
26-Jan-24	Cloudy	11:37	Middle	0.2	17.6 17.6	17.6	7.3 7.3	7.3	0.1 0.1	0.1	103.2 103.2	103.2	9.8 9.8	9.8	6.5 6.5	6.5	4 4	4.0
29-Jan-24	Cloudy	12:15	Middle	0.2	16.9 16.9	16.9	7.2 7.2	7.2	0.1 0.1	0.1	89.5 89.3	89.4	8.7 8.6	8.7	6.5 6.5	6.5	12 14	13.0
31-Jan-24	Cloudy	10:59	Middle	0.2	21.1 21.0	21.1	7.4 7.4	7.4	0.1 0.1	0.1	99.1 99.1	99.1	8.8 8.8	8.8	7.4 7.4	7.4	12 11	11.5

Dissolved Oxygen (Middle)



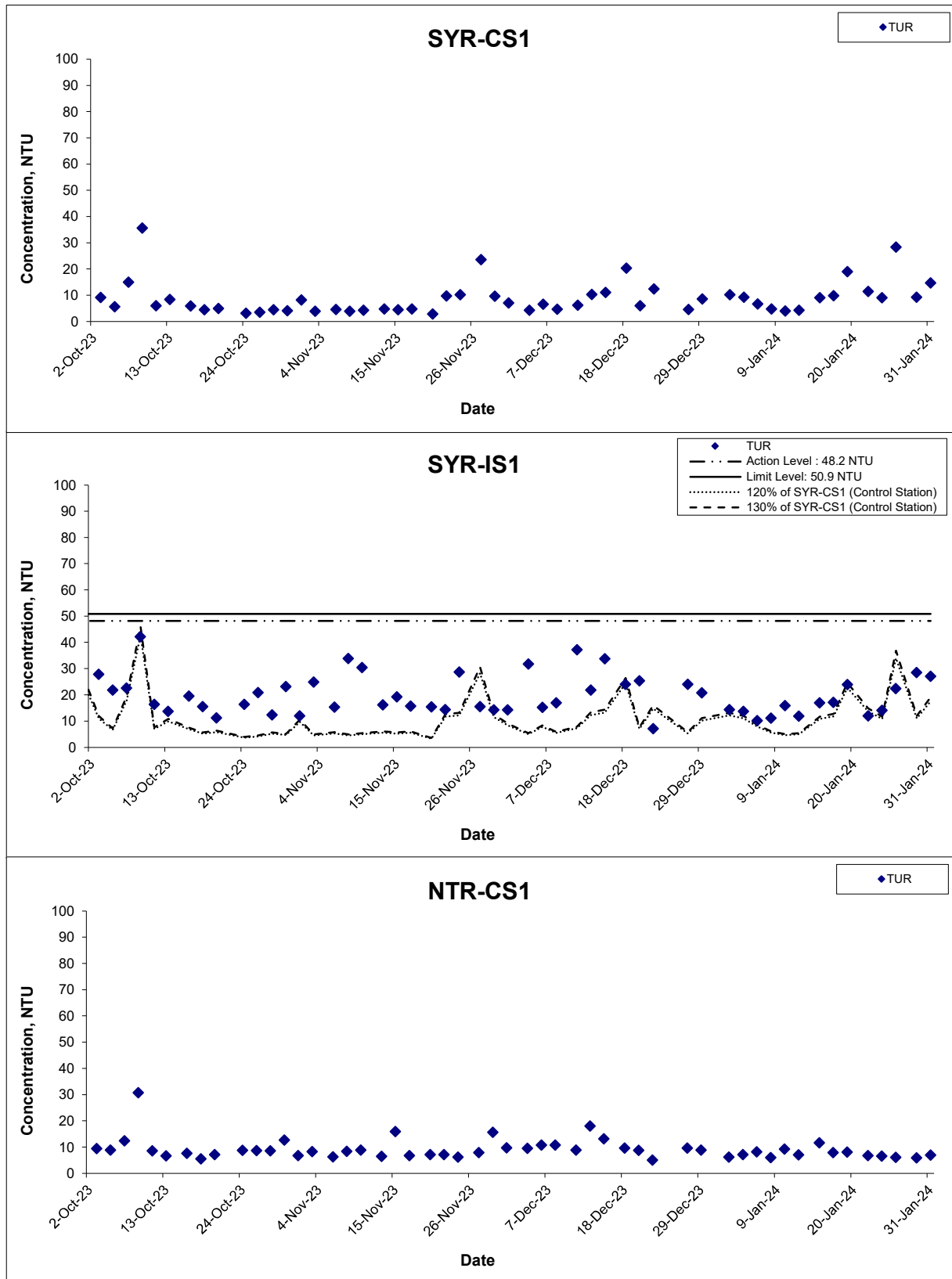
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	Date Jan 24	Appendix G	


Dissolved Oxygen (Middle)



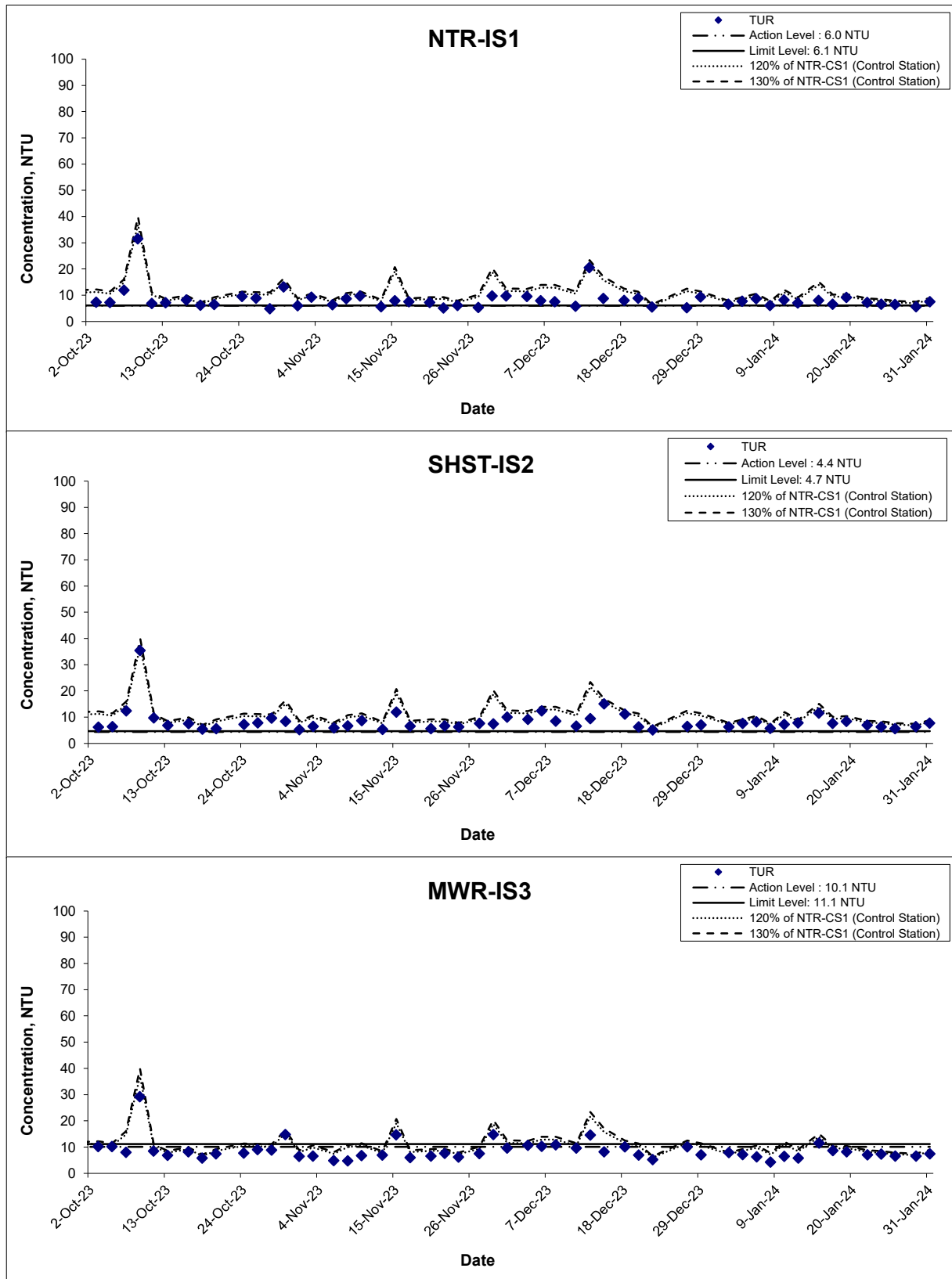
Title Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	
	Date Jan 24	Appendix G	

Turbidity (Depth-averaged)



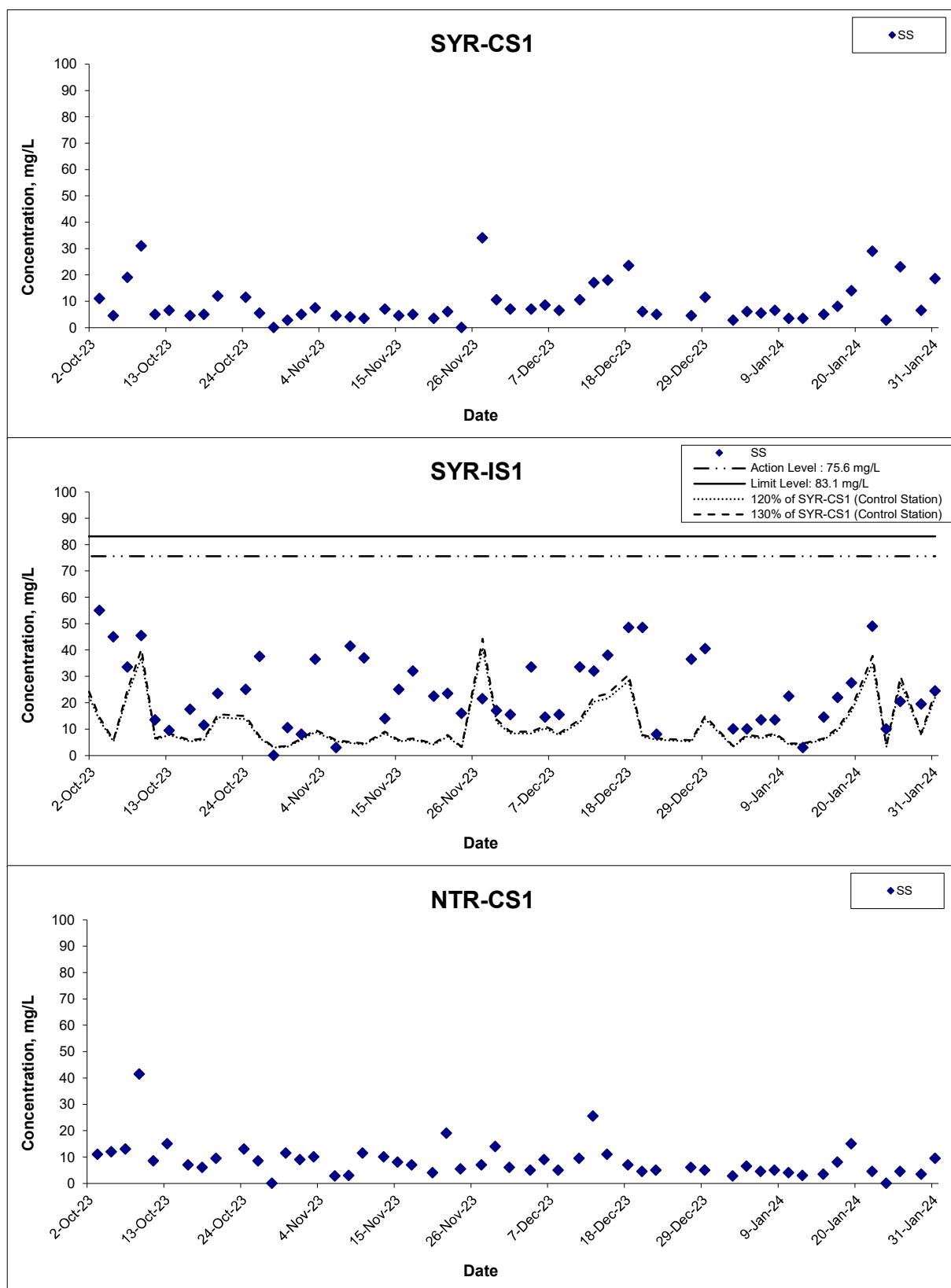
Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas	Scale N.T.S	Project No. WMA20002	 consulting . testing . research
	Graphical Presentation of Water Quality Monitoring Results	Date Jan 24	Appendix G	

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
	Date Jan 24	Appendix G	

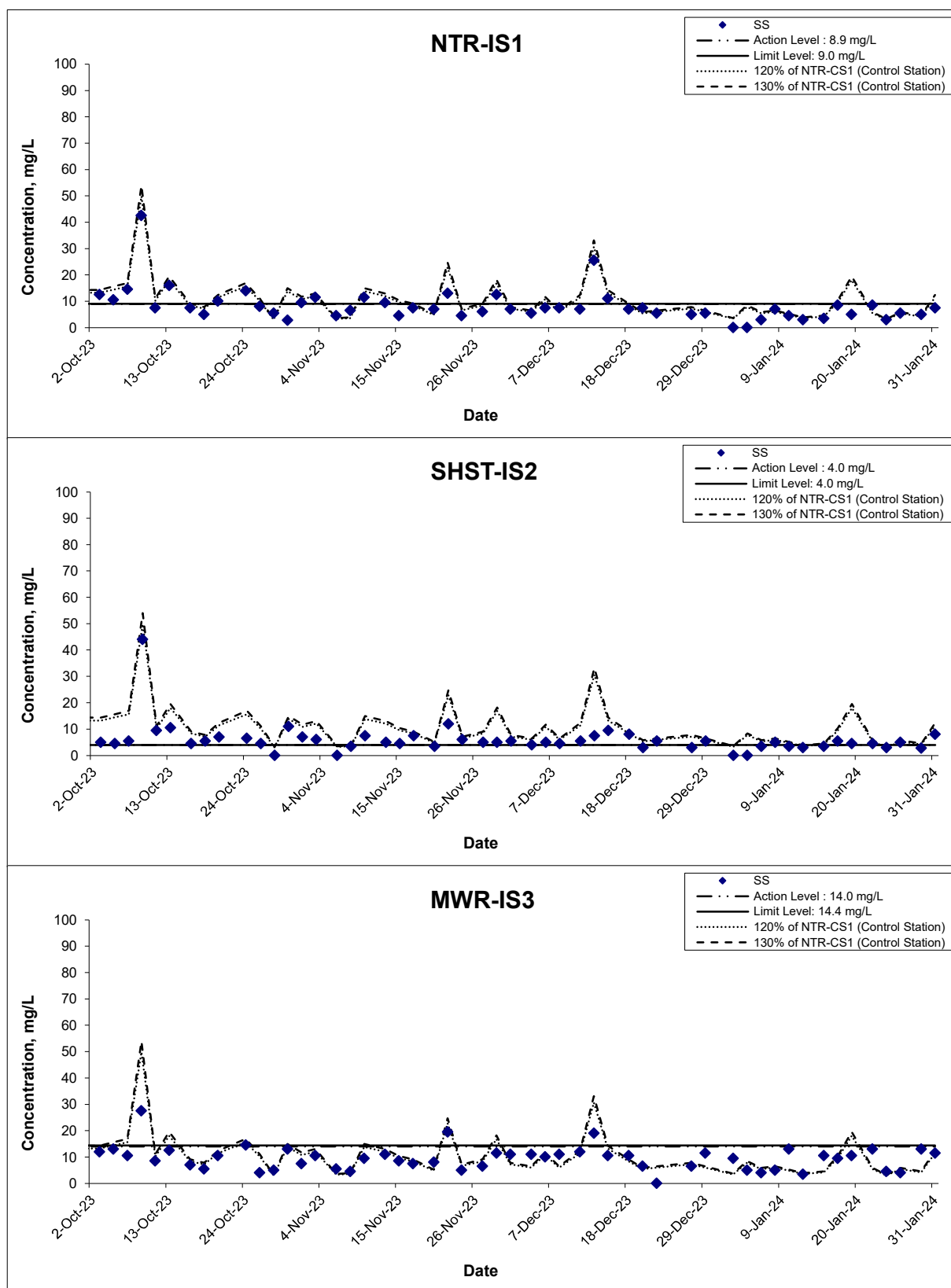
Suspended Solids (Depth-averaged)




Remark: The graphical point at zero concentration is presented as <2.5 mg/L

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 Jan 24	Appendix G	

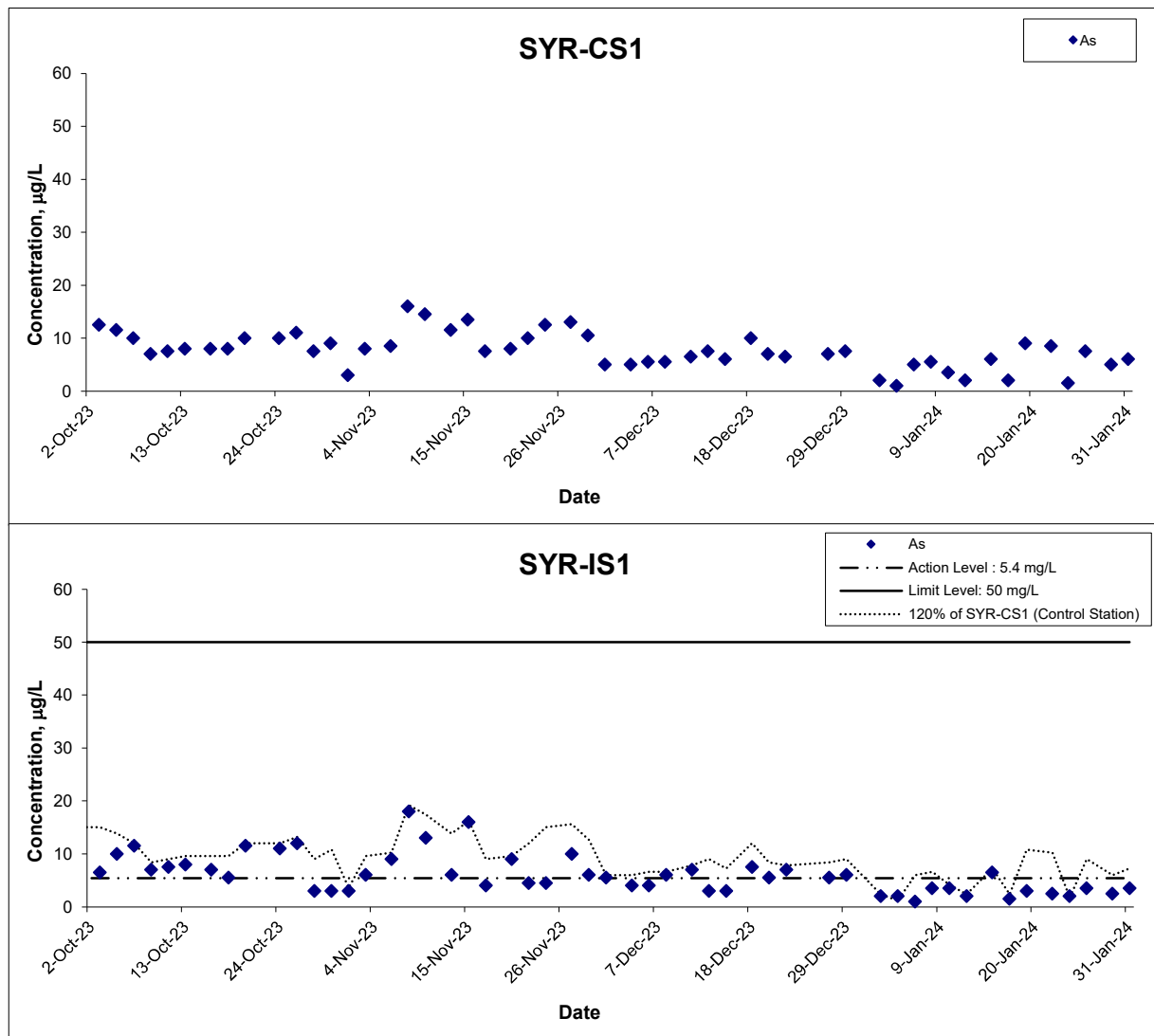
Suspended Solids (Depth-averaged)




Remark: The graphical point at zero concentration is presented as <2.5 mg/L

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	 consulting . testing . research
	Date Jan 24	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	Project No. WMA20002	 consulting . testing . research
	Date Jan 24	Appendix G	

APPENDIX H
LABORATORY TESTING REPORTS FOR
LABORATORY ANALYSIS

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39427
Date of Issue:	2024-01-08
Date Received:	2024-01-02
Date Tested:	2024-01-02
Date Completed:	2024-01-08

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39427
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. : WMA20002/240102
Sampling Date : 2024-01-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	39427-2	39427-3	39427-5	39427-6
Total Suspended Solids dried at 103-105°C (mg/L)	3	<2.5	10	10
Arsenic (µg/L)	2	2	2	2

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39427A
Date of Issue:	2024-01-08
Date Received:	2024-01-02
Date Tested:	2024-01-02
Date Completed:	2024-01-08

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39427A
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. : WMA20002/240102
Sampling Date : 2024-01-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	39427-8	39427-9	39427-11	39427-12
Total Suspended Solids dried at 103-105°C (mg/L)	3	<2.5	<2.5	<2.5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39427-14	39427-15	39427-17	39427-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	<2.5	9	10

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39436
Date of Issue:	2024-01-10
Date Received:	2024-01-04
Date Tested:	2024-01-04
Date Completed:	2024-01-10

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39436
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. : WMA20002/240104
Sampling Date : 2024-01-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	39436-2	39436-3	39436-5	39436-6
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	10	9
Arsenic (µg/L)	1	1	2	2

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39436A
Date of Issue:	2024-01-10
Date Received:	2024-01-04
Date Tested:	2024-01-04
Date Completed:	2024-01-10

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39436A
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. : WMA20002/240104
Sampling Date : 2024-01-04

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	39436-8	39436-9	39436-11	39436-12
Total Suspended Solids dried at 103-105°C (mg/L)	7	6	<2.5	<2.5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39436-14	39436-15	39436-17	39436-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	<2.5	5	5

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39445
Date of Issue:	2024-01-11
Date Received:	2024-01-06
Date Tested:	2024-01-06
Date Completed:	2024-01-11

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39445
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. : WMA20002/240106
Sampling Date : 2024-01-06

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.	39445-2	39445-3	39445-5	39445-6
Total Suspended Solids dried at 103-105°C (mg/L)	6	5	13	14
Arsenic (µg/L)	5	5	1	1

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39445A
Date of Issue:	2024-01-11
Date Received:	2024-01-06
Date Tested:	2024-01-06
Date Completed:	2024-01-11

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39445A
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. : WMA20002/240106
Sampling Date : 2024-01-06

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.	39445-8	39445-9	39445-11	39445-12
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	3	3

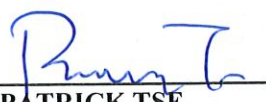
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39445-14	39445-15	39445-17	39445-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	4	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39501
Date of Issue:	2024-01-12
Date Received:	2024-01-08
Date Tested:	2024-01-08
Date Completed:	2024-01-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39501
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. : WMA20002/240110
Sampling Date : 2024-01-08

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.	39501-2	39501-3	39501-5	39501-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	6	14	13
Arsenic (µg/L)	5	6	3	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39501A
Date of Issue:	2024-01-12
Date Received:	2024-01-08
Date Tested:	2024-01-08
Date Completed:	2024-01-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39501A
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. : WMA20002/240110
Sampling Date : 2024-01-08

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.	39501-8	39501-9	39501-12	39501-12
Total Suspended Solids dried at 103-105°C (mg/L)	5	5	7	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39501-14	39501-15	39501-17	39501-18
Total Suspended Solids dried at 103-105°C (mg/L)	5	5	5	5

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39504
Date of Issue:	2024-01-16
Date Received:	2024-01-10
Date Tested:	2024-01-10
Date Completed:	2024-01-16

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39504
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. : WMA20002/240110
Sampling Date : 2024-01-10

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.	39504-2	39504-3	39504-5	39504-6
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	22	23
Arsenic (µg/L)	4	3	4	3

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39504A
Date of Issue:	2024-01-16
Date Received:	2024-01-10
Date Tested:	2024-01-10
Date Completed:	2024-01-16

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39504A
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. : WMA20002/240110
Sampling Date : 2024-01-10

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.	39504-8	39504-9	39504-12	39504-12
Total Suspended Solids dried at 103-105°C (mg/L)	4	4	5	4

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39504-14	39504-15	39504-17	39504-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	12	14

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39506
Date of Issue:	2024-01-16
Date Received:	2024-01-12
Date Tested:	2024-01-12
Date Completed:	2024-01-16

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39506
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. : WMA20002/240112
Sampling Date : 2024-01-12

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.	39506-2	39506-3	39506-5	39506-6
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	3	3
Arsenic (µg/L)	2	2	2	2

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39506A
Date of Issue:	2024-01-16
Date Received:	2024-01-12
Date Tested:	2024-01-12
Date Completed:	2024-01-16

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39506A
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. : WMA20002/240112
Sampling Date : 2024-01-12

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.	39506-8	39506-9	39506-12	39506-12
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	3	3

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39506-14	39506-15	39506-17	39506-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	3	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39545
Date of Issue:	2024-01-19
Date Received:	2024-01-15
Date Tested:	2024-01-15
Date Completed:	2024-01-19

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39545
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. : WMA20002/240115
Sampling Date : 2024-01-15

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.	39545-2	39545-3	39545-5	39545-6
Total Suspended Solids dried at 103-105°C (mg/L)	5	5	14	15
Arsenic (µg/L)	6	6	7	6

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39545A
Date of Issue:	2024-01-19
Date Received:	2024-01-15
Date Tested:	2024-01-15
Date Completed:	2024-01-19

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39545A
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. : WMA20002/240115
Sampling Date : 2024-01-15

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.	39545-8	39545-9	39545-12	39545-12
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	3	4

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39545-14	39545-15	39545-17	39545-18
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	10	11

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39548
Date of Issue:	2024-01-23
Date Received:	2024-01-17
Date Tested:	2024-01-17
Date Completed:	2024-01-23

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39548
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. : WMA20002/240117
Sampling Date : 2024-01-17

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.	39548-2	39548-3	39548-5	39548-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	22	22
Arsenic (µg/L)	2	2	2	1

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39548A
Date of Issue:	2024-01-23
Date Received:	2024-01-17
Date Tested:	2024-01-17
Date Completed:	2024-01-23

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39548A
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. : WMA20002/240117
Sampling Date : 2024-01-17

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.	39548-8	39548-9	39548-12	39548-12
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	9	8

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39548-14	39548-15	39548-17	39548-18
Total Suspended Solids dried at 103-105°C (mg/L)	6	5	9	10

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY: 

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39551
Date of Issue:	2024-01-24
Date Received:	2024-01-19
Date Tested:	2024-01-19
Date Completed:	2024-01-24

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39551
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. : WMA20002/240119
Sampling Date : 2024-01-19

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.	39551-2	39551-3	39551-5	39551-6
Total Suspended Solids dried at 103-105°C (mg/L)	15	13	27	28
Arsenic (µg/L)	9	9	3	3

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39551A
Date of Issue:	2024-01-24
Date Received:	2024-01-19
Date Tested:	2024-01-19
Date Completed:	2024-01-24

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39551A
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. : WMA20002/240119
Sampling Date : 2024-01-19

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.	39551-8	39551-9	39551-12	39551-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	16	5	5

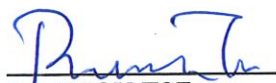
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39551-14	39551-15	39551-17	39551-18
Total Suspended Solids dried at 103-105°C (mg/L)	4	5	10	11

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39570
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39570
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. : WMA20002/240122
Sampling Date : 2024-01-22

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.	39570-2	39570-3	39570-5	39570-6
Total Suspended Solids dried at 103-105°C (mg/L)	30	28	52	46
Arsenic (µg/L)	9	8	2	3

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39570A
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39570A
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. : WMA20002/240122
Sampling Date : 2024-01-22

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.	39570-8	39570-9	39570-12	39570-12
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	9	8

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39570-14	39570-15	39570-17	39570-18
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	12	14

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39580
Date of Issue:	2024-01-30
Date Received:	2024-01-24
Date Tested:	2024-01-24
Date Completed:	2024-01-30

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39580
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. : WMA20002/240124
Sampling Date : 2024-01-24

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.	39580-2	39580-3	39580-5	39580-6
Total Suspended Solids dried at 103-105°C (mg/L)	3	<2.5	10	10
Arsenic (µg/L)	1	2	2	2

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39580A
Date of Issue:	2024-01-30
Date Received:	2024-01-24
Date Tested:	2024-01-24
Date Completed:	2024-01-30

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39580A
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. : WMA20002/240124
Sampling Date : 2024-01-24

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.	39580-8	39580-9	39580-12	39580-12
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	<2.5	3	3

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39580-14	39580-15	39580-17	39580-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	4	5

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39590
Date of Issue:	2024-02-01
Date Received:	2024-01-26
Date Tested:	2024-01-26
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39590
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. : WMA20002/240126
Sampling Date : 2024-01-26

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.	39590-2	39590-3	39590-5	39590-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	22	21	20
Arsenic (µg/L)	8	7	3	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39590A
Date of Issue:	2024-02-01
Date Received:	2024-01-26
Date Tested:	2024-01-26
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39590A
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. : WMA20002/240126
Sampling Date : 2024-01-26

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.	39590-8	39590-9	39590-12	39590-12
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	5	6

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39590-14	39590-15	39590-17	39590-18
Total Suspended Solids dried at 103-105°C (mg/L)	5	5	4	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39607
Date of Issue:	2024-02-01
Date Received:	2024-01-29
Date Tested:	2024-01-29
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39607
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. : WMA20002/240129
Sampling Date : 2024-01-29

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.	39607-2	39607-3	39607-5	39607-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	6	20	19
Arsenic (µg/L)	5	5	3	2

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39607A
Date of Issue:	2024-02-01
Date Received:	2024-01-29
Date Tested:	2024-01-29
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39607A
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. : WMA20002/240129
Sampling Date : 2024-01-29

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.	39607-8	39607-9	39607-12	39607-12
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	5	5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39607-14	39607-15	39607-17	39607-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	3	12	14

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39617
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39617
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. : WMA20002/240131
Sampling Date : 2024-01-31

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.	39617-2	39617-3	39617-5	39617-6
Total Suspended Solids dried at 103-105°C (mg/L)	19	18	23	26
Arsenic (µg/L)	6	6	3	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	39617A
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39617A
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. : WMA20002/240131
Sampling Date : 2024-01-31

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.	39617-8	39617-9	39617-12	39617-12
Total Suspended Solids dried at 103-105°C (mg/L)	9	10	8	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39617-14	39617-15	39617-17	39617-18
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	12	11

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICK TSE
General Manager

**APPENDIX I
QUALITY CONTROL REPORTS FOR SS
AND ARSENIC LABORATORY
ANALYSIS**

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39427
Date of Issue:	2024-01-08
Date Received:	2024-01-02
Date Tested:	2024-01-02
Date Completed:	2024-01-08

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 (%)	101	115	80-120
Arsenic (%)	108	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	4	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	3	RPD≤5%
Arsenic (%)	97	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 39427.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39436
Date of Issue:	2024-01-10
Date Received:	2024-01-04
Date Tested:	2024-01-04
Date Completed:	2024-01-10

Page: 1 of 1

ATTN: Mr. Marco Ma

QC report**Method Blank**

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	109	88	80-120
Arsenic (%)	86	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	5	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	2	RPD≤5%
Arsenic (%)	102	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 39436.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIA TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39445
Date of Issue:	2024-01-11
Date Received:	2024-01-06
Date Tested:	2024-01-06
Date Completed:	2024-01-11

Page: 1 of 1

ATTN: Mr. Marco Ma

QC report**Method Blank**

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	103	100	80-120
Arsenic (%)	100	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	9	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	1	RPD ≤ 5%
Arsenic (%)	89	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 39445.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIA TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39501
Date of Issue:	2024-01-12
Date Received:	2024-01-08
Date Tested:	2024-01-08
Date Completed:	2024-01-12

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 (%)	115	98	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 (%)	3	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	1	RPD≤5%
Arsenic (%)	111	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 39501.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39504
Date of Issue:	2024-01-16
Date Received:	2024-01-10
Date Tested:	2024-01-10
Date Completed:	2024-01-16

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 (%)	107	117	80-120
Arsenic (%)	112	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	7	N/A	RPD≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39504.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIA TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39506
Date of Issue:	2024-01-16
Date Received:	2024-01-12
Date Tested:	2024-01-12
Date Completed:	2024-01-16

Page: 1 of 1

ATTN: Mr. Marco Ma

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	97	91	80-120
Arsenic (%)	99	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	108	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	3	RPD≤5%
Arsenic (%)	16	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 39506.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIA TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39545
Date of Issue:	2024-01-19
Date Received:	2024-01-15
Date Tested:	2024-01-15
Date Completed:	2024-01-19

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 (%)	104	93	80-120
Arsenic (%)	98	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	103	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39545.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.: QC39548
Date of Issue: 2024-01-23
Date Received: 2024-01-17
Date Tested: 2024-01-17
Date Completed: 2024-01-23

ATTN: Mr. Marco Ma

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic ($\mu\text{g/L}$)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	100	114	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 (%)	100	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	2	RPD \leq 5%
Arsenic (%)	11	N/A	RPD \leq 20%

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39548.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39551
Date of Issue:	2024-01-24
Date Received:	2024-01-19
Date Tested:	2024-01-19
Date Completed:	2024-01-24

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 (%)	100	83	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 (%)	101	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 39551.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRIC TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39570
Date of Issue:	2024-01-26
Date Received:	2024-01-22
Date Tested:	2024-01-22
Date Completed:	2024-01-26

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 (%)	106	108	80-120
Arsenic (%)	91	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	103	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	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 39570.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39580
Date of Issue:	2024-01-30
Date Received:	2024-01-24
Date Tested:	2024-01-24
Date Completed:	2024-01-30

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 (%)	104	106	80-120
Arsenic (%)	109	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	109	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	2	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 39580.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39590
Date of Issue:	2024-02-01
Date Received:	2024-01-26
Date Tested:	2024-01-26
Date Completed:	2024-02-01

Page: 1 of 1

ATTN: Mr. Marco Ma

QC report**Method Blank**

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	91	106	80-120
Arsenic (%)	84	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	99	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	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 39590.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39607
Date of Issue:	2024-02-01
Date Received:	2024-01-29
Date Tested:	2024-01-29
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

QC report**Method Blank**

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	105	84	80-120
Arsenic (%)	109	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	98	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	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 39607.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC39617
Date of Issue:	2024-02-01
Date Received:	2024-01-31
Date Tested:	2024-01-31
Date Completed:	2024-02-01

ATTN: Mr. Marco Ma

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	97	80-120
Arsenic (%)	100	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	107	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	1	RPD≤5%
Arsenic (%)	9	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 39617.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**


PATRICIK 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 & Infrastructure works**

堆填區附近區域(Consultation Zone)每月氣體監察記錄

日期及時間	位置	氣體及安全標準	氧氣 O ₂ >19%	甲烷 CH ₄ <10% LEL	二氧化碳 CO ₂ <0.5%
30-1-2024 14:35	CZ PT 1		20.60	0.00	0.00
30-1-2024 14:43	CZ container 1		20.50	0.00	0.00
30-1-2024 14:37	CZ container 2		20.50	0.00	0.00
30-1-2024 14:39	CZ container 3		20.60	0.00	0.00
30-1-2024 14:41	CZ container 4		20.60	0.00	0.00
30-1-2024 14:45	CZ container 5		20.40	0.00	0.00

Prepared by : Y L Chan (Safety Officer)

Date : 30-1-2024

**APPENDIX K
BUILT HERITAGE MONITORING
RESULTS**

No construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works.

APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 3 & 2 January 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.52, 1.58					
					Start Time			1400, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV				1		6				2
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC				14	100				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	2		3		3	4		1
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU				3					
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC					2		6		
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R				1						
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R						3				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM					7	5		6		
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R							64			42
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)					9				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					42				
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			5				100			70
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鷀	CWV	PRC	2								
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	4	2		4	1				1
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC				3		1			1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.52, 1.58					
					Start Time			1400, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鵲	WV				3						
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R				3						
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	7	5	7	5	1	5			4
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R						16			3	
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC				11	4	10			
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV										6
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵲	WV	RC				54		47			
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R		3								
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM						5				5
Rock Dove	<i>Columba livia</i>	原鵲	R			6			8				5
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R										109
White Wagtail	<i>Motacilla alba</i>	白鵲鵲	PM, WV		1	2	10		8				6
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1						
White-rumped Munia	<i>Lonchura striata</i>	白腰文鳥	R										68
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)	1								
Total No. of Spec ies					7	7	10	12	12	6	0	1	13

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.52, 1.58					
					Start Time			1400, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Total No. of Conservation Interest Species					5	3	6	8	4	5	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; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor
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
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)
WAL: Wet Agricultural Land
DAL: Dry Agricultural Land
SWH: Shallow Water Habitat
P: Pond

Appendix L1b. Avifauna Species Recorded for Water Birds Monitoring, 3 & 2 January 2024, Low Tide

Appendix B13: Wetland Species Recorded for Water Birds Monitoring, 3 to 2 January 2024, BOW Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			0.68, 0.51					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					1	4				
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC									1
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		4				2				4
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC				20	12	71			2
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					5				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		4	2	3	3				1
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU		2							1
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			1	3		2			2
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									2
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						1				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM			3							
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					2	9	3			7
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV						4				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)				14	9				1
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鴝	PM, WV						9				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC			1		11	33			4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			0.68, 0.51					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			11			42				
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	RC						8			
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	6	3	5	1					1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV				4	3					2
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC			1		1				4
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC					1				
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV					6					
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	6	8	1	3	2			2
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC						5			1
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC			1	2		2			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R			4	4					1	
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	SWV	NT, LC						2			
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC					5	10			
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV		1		5		1				
Oriental Magpie	<i>Pica serica</i>	喜鵲	R						1				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC						24			1
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						8				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				Low				
					Tide Level (m)				0.68, 0.51				
					Start Time				0900, 0900				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM										15
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC				1	10				7
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵯	R			3			1				2
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM						1				
Rock Dove	<i>Columba livia</i>	原鴿	R			12			12				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R				1	15	8				3
White Wagtail	<i>Motacilla alba</i>	白鵯鵯	PM, WV		1	4	5	1	6	1			6
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			1						
Wood Sandpiper	<i>Tringa glareola</i>	林鵯	PM, WV	LC				5		2			
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷦鶯	R							5		1	
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵯	PM	CR, RC					1				
Total No. of Species					5	10	13	15	26	14	0	2	21
Total No. of Conservation Interest Species					2	4	8	9	11	11	0	0	14

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		3/1/2024 (T1 & T2), 2/1/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		Low					
					Tide Level (m)		0.68, 0.51					
					Start Time		0900, 0900					
					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; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor
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, 8 & 10 January 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)							
					Weather Condition				Sunny, Sunny							
					Tidal Condition				High							
					Tide Level (m)				1.68, 1.5							
					Start Time				1600, 1030							
					Abundance											
					Transect Walk											
					T1	T2	T3	T5								
			WAL	DAL	SWH	P	Heard	Flight								
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					3								
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC		1	2									
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R					18			2					
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC			9	80	5	70			8			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	3	4	2		4	2						
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU												
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			3	1		1						
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									2			
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R													
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						4				2			
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM		3		2	1	1	1						
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					7		7						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R				4						20			
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV						2							
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586									1			
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)					12	2			3			
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鴝	PM, WV				1		4				2			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				High				
					Tide Level (m)				1.68, 1.5				
					Start Time				1600, 1030				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					2		20		
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					100	5				
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	RC							3		
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC		2	2						
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	5	3	5						
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV				4	1		2			
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	1		7		1	1			
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						1			
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						10				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	4	9	7	1		1			
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			7	6					
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC			1	3		3			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R			3							
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							10		
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV				5		18				4
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						6				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.68, 1.5					
					Start Time			1600, 1030					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC							23		
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM										2
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC					4				
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R			2							
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM						4				
Rock Dove	<i>Columba livia</i>	原鴿	R			3			2				6
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					100	45				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		1				57				20
White Wagtail	<i>Motacilla alba</i>	白鵪鶉	PM, WV		2	2	2		10				
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			1						
Wood Sandpiper	<i>Tringa glareola</i>	林鵪鶉	PM, WV	LC				10					
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵪鶉	PM	CR, RC					5				
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC					3				
Total No. of Species					7	9	17	11	24	11	4	1	11
Total No. of Conservation Interest Species					4	5	11	6	8	8	4	0	4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.68, 1.5					
					Start Time			1600, 1030					
					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 –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 L1f. Avifauna Species Recorded for Water Birds Monitoring, 8 & 10 January 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.32					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Black Drongo	<i>Dicrurus macrocercus</i>	黑卷尾	Sv		1								
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC			1						
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R				1		15				
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)									1
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC			2	17		91			17
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					2				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵯	R										2
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鳶	R	PRC(RC)	1	3	1	2	9				1
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			3						
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			1	5		4			1
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									1
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R			1							
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R						1				
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR				2						
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM							1			1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				Low				
					Tide Level (m)				1.46, 1.32				
					Start Time				1300, 1400				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					5	2				2
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						10				
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鴝	PM, WV						5				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					13	40			
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			12			62				
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	RC						6			
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC		3							
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	4	3						
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV				4						2
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		1	3						
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鴝	WV				3						
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						1			
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						10				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	7	4	1					
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			1		6	1			
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC						6			
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC						12			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.32					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV			3			1				
Oriental Magpie	<i>Pica serica</i>	喜鵲	R				1		4				
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鵒	R						1				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC						6			
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R									2	
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC				6	10	2			7
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM			3			1				
Rock Dove	<i>Columba livia</i>	原鴿	R			9	7		2				17
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						110				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R						16				1
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R			2							
White Wagtail	<i>Motacilla alba</i>	白鵲鴝	PM, WV		3	1	6		16	1			5
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1	2					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			2						
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC				6		7			
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵲	PM	CR, RC					1				
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC					2				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			8/1/2024 (T1 & T2), 10/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			1.46, 1.32					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					5	12	18	8	21	14	0	1	13
Total No. of Conservation Interest Species					3	5	10	6	7	11	0	0	6

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant;; 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, 18 & 15 January 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			High					
					Tide Level (m)			1.69, 1.58					
					Start Time			1600, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV			2		5					
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586		2							
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		2	4			1				
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC			8	31	16	87			
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					2				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	4	2	3	3	3			4	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			2					2	
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			2	2		6		2	
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586								1	
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM		3	1	1			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						1	12		2	
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R		2		1						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R		2	5							
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV		1								
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)				2	2			3	
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鴝	PM, WV						16				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Fine					
					Tidal Condition			High					
					Tide Level (m)			1.69, 1.58					
					Start Time			1600, 1300					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					48				
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			13			60				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鷀	CWV	PRC	10								
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	3	1	2		2				
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)					1				
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV					2		3			
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		2	4		1				1
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC					1				
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R										7
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R				1						
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						32				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	4	10	5		3	2			
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			8			9			
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						4				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC			1			7			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R			6							
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC					3				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Fine				
					Tidal Condition				High				
					Tide Level (m)				1.69, 1.58				
					Start Time				1600, 1300				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV					11				1	
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鵯	R		1								
Peregrine Falcon	<i>Falco peregrinus</i>	遊隼	SR, WV	Cap.586, LC								1	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC						5			
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC					8			2	
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R						2			1	
Rock Dove	<i>Columba livia</i>	原鵲	R			11	2			37		11	
Russet Sparrow	<i>Passer cinnamomeus</i>	山麻雀	SWV						1				
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R			12			175				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		4	8	2		4			5	
White Wagtail	<i>Motacilla alba</i>	白鵲鵲	PM, WV		2	4	5		24			7	
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R		1		1						
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)	1	1			1				
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC	1	1	2	3		7		1	
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵲	PM	CR, RC								1	
Total No. of Species					15	16	18	6	26	11	0	0	17
Total No. of Conservation Interest Species					6	7	10	5	13	7	0	0	10

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Fine				
					Tidal Condition				High				
					Tide Level (m)				1.69, 1.58				
					Start Time				1600, 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; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor

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

RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)

WAL: Wet Agricultural Land

DAL: Dry Agricultural Land

SWH: Shallow Water Habitat

P: Pond

Appendix L1h. Avifauna Species Recorded for Water Birds Monitoring, 18 & 15 January 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				Low				
					Tide Level (m)				0.76, 0.1				
					Start Time				0900, 0900				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					3					
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586								1	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586	1							1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		2	2					1	4	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC			11	15	34	55		1	
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					5				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵯	R		4		1						
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	3	1	2					4	
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			2	1		5			
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM		2		3						
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						3			2	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV						1				
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586								1	
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)					3	1		5	
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV				1	1	2				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					16				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				Low				
					Tide Level (m)				0.76, 0.1				
					Start Time				0900, 0900				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			12			50				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	4								
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	3	5		3	1			1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV				2						
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		2	7		1				1
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC					1				
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						22				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	6	5	1		2			5
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			3			10			
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC						1			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R				1						
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC					7				
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV				2		2				6
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R		2							1	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC					2	2			
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R				1	1					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)				
					Weather Condition				Sunny, Sunny				
					Tidal Condition				Low				
					Tide Level (m)				0.76, 0.1				
					Start Time				0900, 0900				
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
WAL	DAL	SWH	P	Heard				Flight					
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC					9				1
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵯	R				2						
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM						4				
Rock Dove	<i>Columba livia</i>	原鴿	R			13			5				
Russet Sparrow	<i>Passer cinnamomeus</i>	山麻雀	SWV						1				
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						150				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		6	4	1		6				2
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R				3						
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV		2	2	5	2	4	2			3
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1						
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)	1		1						
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC	1			1		7			4
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵯	PM	CR, RC					2				
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC				3					
Total No. of Species					13	9	20	8	25	10	0	2	16
Total No. of Conservation Interest Species					7	4	8	5	11	9	0	0	11

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			18/1/2024 (T1 & T2), 15/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Sunny					
					Tidal Condition			Low					
					Tide Level (m)			0.76, 0.1					
					Start Time			0900, 0900					
					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; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor

Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)

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WAL: Wet Agricultural Land

DAL: Dry Agricultural Land

SWH: Shallow Water Habitat

P: Pond

Appendix L1i. Avifauna Species Recorded for Water Birds Monitoring, 24 & 22 January 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)					
					Weather Condition			Overcast, Overcast					
					Tidal Condition			High					
					Tide Level (m)			1.55, 1.5					
					Start Time			1100, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					5					
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586								1	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586	2							1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		4				4			8	
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)								1	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵞	PM	RC			6	26	3	66		4	
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					2				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵯	R		2				2				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	3	2	6	2	5	1		1	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			1					1	
Common Greenshank	<i>Tringa nebularia</i>	青腳鵞	PM, WV	RC			1			5			
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R					1					
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						3				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵞	WV, PM		1	1	1	1		1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					1					
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R		4				26			16	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)					
					Weather Condition			Overcast, Overcast					
					Tidal Condition			High					
					Tide Level (m)			1.55, 1.5					
					Start Time			1100, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV				3	6					
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							15		
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			16			68			14	
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC		10							
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)			2		1			2	
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鵪	UPM, WV				1						
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	2	2	4		1				
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R									8	
Japanese Sparrowhawk	<i>Accipiter gularis</i>	日本松雀鷹		Cap.586								1	
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						26				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)			4	2	1	1		2	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鵪	WV, PM	LC			2			15			
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵪	PM, WV	RC			1		2				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵪	R						3				
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							5		
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵪	WV				4		8			6	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)					
					Weather Condition			Overcast, Overcast					
					Tidal Condition			High					
					Tide Level (m)			1.55, 1.5					
					Start Time			1100, 1500					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Oriental Magpie	<i>Pica serica</i>	喜鵲	R				2						
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鵲	R		1		1						
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC						1			
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						3				
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC					7				
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM						2				
Rock Dove	<i>Columba livia</i>	原鴿	R			9			27				
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						230				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R				4		23				12
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		2								
White Wagtail	<i>Motacilla alba</i>	白鵲鵲	PM, WV				3	4	5				
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R					1					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)					1				
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC					4				
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC					1				
Total No. of Species					9	6	16	9	28	7	2	0	15
Total No. of Conservation Interest Species					3	3	9	3	11	6	2	0	9

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)						
					Weather Condition		Overcast, Overcast						
					Tidal Condition		High						
					Tide Level (m)		1.55, 1.5						
					Start Time		1100, 1500						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
<p>Note:</p> <p>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</p> <p>Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)</p> <p>Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance</p> <p>Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)</p> <p>VU: Vulnerable in IUCN Red List Status</p> <p>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)</p> <p>WAL: Wet Agricultural Land</p> <p>DAL: Dry Agricultural Land</p> <p>SWH: Shallow Water Habitat</p> <p>P: Pond</p>													

Appendix L1j. Avifauna Species Recorded for Water Birds Monitoring, 24 & 22 January 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			1.18, 1.37					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					3					
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586								1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		4	2	4		2			7	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵞	PM	RC			5	7		106			
Buff-bellied Pipit	<i>Anthus rubescens</i>	黃腹鵞	UPM, WV					1					
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵞	SPM	LC					2				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鵞	R	PRC(RC)	3	2	4		5	1		1	
Common Greenshank	<i>Tringa nebularia</i>	青腳鵞	PM, WV	RC			3			9			
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵞	WV, PM				2			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM							1			
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R									7	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鵞	PM, WV						1				
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵞鶉	PM, WV				3		5				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							4	22	
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						50				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC		2							

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)					
					Weather Condition			Sunny, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			1.18, 1.37					
					Start Time			0900, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	2	2						1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷸	UPM, WV				1	1		1			
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	3		4						1
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R										13
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV				2		13				4
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	7	7			5			5
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			2			4			
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC						3			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵪	R										
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC									
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵪	WV				6	2	6				
Oriental Magpie	<i>Pica serica</i>	喜鵪	R				2						
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R						1				
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM										10
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC						1			
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵪	CPM, WV	RC					33				4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date				24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)							
					Weather Condition				Sunny, Overcast							
					Tidal Condition				Low							
					Tide Level (m)				1.18, 1.37							
					Start Time				0900, 0900							
					Abundance											
					Transect Walk											
					T1	T2	T3	T5								
			WAL	DAL	SWH	P	Heard	Flight								
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鸛	R		4											
Richard's Pipit	<i>Anthus richardi</i>	理氏鸛	WV, PM				1		2							
Rock Dove	<i>Columba livia</i>	原鴿	R				3		13				9			
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						232				50			
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R										30			
White Wagtail	<i>Motacilla alba</i>	白鵲鵲	PM, WV					2	3				4			
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R					1								
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)	1				1							
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC				6		2						
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵲	PM	CR, RC					3							
Total No. of Species					7	5	16	7	18	11	1	0	16			
Total No. of Conservation Interest Species					5	4	7	2	5	8	1	0	7			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			24/1/2024 (T1 & T2), 22/1/2024 (T3 & T5)				
					Weather Condition			Sunny, Overcast				
					Tidal Condition			Low				
					Tide Level (m)			1.18, 1.37				
					Start Time			0900, 0900				
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
								WAL	DAL	SWH	P	Heard

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. Avifauna Species Recorded for Water Birds Monitoring, 30 & 29 January 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.81					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586	1								
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV				2	2	5				
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R				1						1
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586	1	1							
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		4	1			3				1
Black-headed Bunting	<i>Emberiza melanocephala</i>	黑頭鵯	SaM, SWV						1				
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC			11	16	1	79			8
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC					4				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		17	3		2				1
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R			2			2				
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU		1							
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC			1			4			
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R							2			
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR				4		5				4
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM		1	2	3			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					1	3	1			3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.81					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R		1	1							
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R					4					22
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鴝	WV			1							
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					2					
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鶯	R, PM	(LC)				2	2				
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV						1				15
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					26	22			
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						20				
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	RC					7				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	5								
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)		2							1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶿	UPM, WV				2	1	1				1
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC			4		1	1			
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵪鶉	WV			2							
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R			2							40
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV						17				
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)		8	3	2		1			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.81					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC					3				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鴝	PM, WV	RC			1		1	1			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鴝	R				1		10				
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC						6			
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鴝	WV		1	3	5		6				1
Oriental Magpie	<i>Pica serica</i>	喜鴝	R										2
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R		1				1				
Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>	黃腰柳鶯	WV						1				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鴝	WV	RC						6			
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R					1				1	
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM				15						
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鴝	CPM, WV	RC					5	1			12
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鸝	R		3	2	1						
Richard's Pipit	<i>Anthus richardi</i>	理氏鴝	WV, PM						2				
Rock Dove	<i>Columba livia</i>	原鴿	R		12	23			22				
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					15	100				50
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2	3	3		5				3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Sunny					
					Tidal Condition			High					
					Tide Level (m)			1.73, 1.81					
					Start Time			1300, 1400					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		7	4			2				
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV		2	1	4		11	1			3
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R						2				
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)		1	1						
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC				3	2	4			3
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷦鶯	R		1				1			2	
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC						1			
Total No. of Species					14	19	18	9	35	15	0	2	18
Total No. of Conservation Interest Species					3	6	7	4	11	11	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 – 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													

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)							
					Weather Condition		Fine, Sunny							
					Tidal Condition		High							
					Tide Level (m)		1.73, 1.81							
					Start Time		1300, 1400							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	
SWH: Shallow Water Habitat P: Pond														

Appendix L1I. Avifauna Species Recorded for Water Birds Monitoring, 30 & 29 January 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			0.72, 0.71					
					Start Time			1000, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586	2								
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV					1					3
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1							1	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv										
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586									1
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC	1								
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		2				4				1
Black-headed Bunting	<i>Emberiza melanocephala</i>	黑頭鵲	SaM, SWV						1				
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)									1
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			2	15		39	7		2
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵲	SPM	LC									
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵲	R						2				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		5	4	1	4				2
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R		4	1							
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			2		1				
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			1			1			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			0.72, 0.71					
					Start Time			1000, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R				1						
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM		3		1			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM									6	
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R		2			12				4	
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鵲	WV		1								
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)					3				
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鵲	PM, WV				10					1	
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							51		
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					120					
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鷀	CWV	PRC	2	1							
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		2	2						
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鵲	UPM, WV				1					2	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	6								
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鵲	WV			1							
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R									77	
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R									2	
Little Bunting	<i>Emberiza pusilla</i>	小鵲	CPM, WV					22					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			0.72, 0.71					
					Start Time			1000, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		9	4			5			1
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC			3			4			
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鴝	PM, WV	RC						2			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鴝	R									4	
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							7		
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鴝	WV				5		12				
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R		1								
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鴝	WV	RC							4		
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	UR	(LC)		1							
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						4				6
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	紅咀藍鴝	R		1								
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鷓	CPM, WV	RC					7				
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鸝	R		7								
Rock Dove	<i>Columba livia</i>	原鴿	R			26		1					39
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R										200
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		1		2		31				7
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		2								

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			30/1/2024 (T1 & T2), 29/1/2024 (T3 & T5)					
					Weather Condition			Fine, Overcast					
					Tidal Condition			Low					
					Tide Level (m)			0.72, 0.71					
					Start Time			1000, 0900					
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV		2	1	2						4
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			1		1				
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC				2	1	3			6
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷦鶯	R						1				
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵪	PM	CR, RC					1				
Total No. of Species					16	9	14	8	15	7	4	2	19
Total No. of Conservation Interest Species					4	5	8	3	7	6	4	0	6

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; 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 L1m. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 2 January 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 2/1/2024					
					Start Time: 18:00					
					Abundance					
					WAL	DAL	SWH	P	Heard	Flight
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R						20	10
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	夜鷺	R, WV	LC						3
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC	7		40			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)						6
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						3	6
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC		9	3			
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC						4
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		7				
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC			3			
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC			22			
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)						1
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R						20	10
Total No. of Species					1	2	4	0	3	7
Total No. of Conservation Interest Species					1	2	4	0	0	4
Note: R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; CaM - Common autumn 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) CR: Rare 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 L1n. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 15 January 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 15/1/2024					
					Start Time: 18:00					
					Abundance					
					WAL	DAL	SWH	P	Heard	Flight
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586						1
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R							26
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC	3		30			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	5					9
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R							1
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			3			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM				1			
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R							27
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC			37			
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	1				2
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC					1	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	1					
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC			1			
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	1	5	1			4
Oriental Magpie	<i>Pica serica</i>	喜鵲	R							2
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC			1			
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R		2	1				1
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	PM, WV	LC	2		4			
Total No. of Species					7	3	8	0	1	9
Total No. of Conservation Interest Species					6	2	7	0	1	4
Note: R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; CaM - Common autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant;; 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) 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 L1o, Waterbirds Recorded in January 2024

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	RC	T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, In flight	Common passage migrant. Found in Deep Bay area, Long Valley, Kam Tin.
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in Hong Kong.
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	RC	T3: River bank, River bed, in flight T5: Wet Agricultural Land, Shallow Water Habitat, Heard, In flight	Abundant winter visitor and migrant. Found in Deep Bay area.
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥		T2: River bank, In flight	Common passage migrant and winter visitor. Widely distributed in wetland habitat throughout Hong Kong.
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R	T5: Wet Agricultural Land, Shallow Water Habitat	Common winter visitor, resident and migrant. Found in Deep Bay area, Shuen Wan, Starling Inlet.
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸		T1: River bank, In flight T2: River bank T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat , In flight	Common passage migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐		T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Heard, In flight	Common passage migrant and winter visitor. Found in Long Valley, Chau Tau, Sai Kung.
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	(LC)	T5: Wet Agricultural Land, Dry Agricultural Land, In flight	Resident and common passage migrant. Widely distributed in Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	T3: River bed T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, In flight	Common winter visitor. Found in Deep Bay area, Shuen Wan, Tai Lam Chung Reservoir, Victoria Harbour, urban parks.
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	T5: Dry Agricultural Land, Shallow Water Habitat, Pond	Winter visitor. Found in Deep Bay area, Tai Lam Chung.
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	PRC	T1: River bed, In flight T2: River bed T3: In flight	Common winter visitor. Widely distributed in coastal areas throughout Hong Kong.
Great Egret	<i>Ardea alba</i>	大白鷺	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 and winter visitor. Widely distributed in Hong Kong.
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶿		T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common migrant and winter visitor. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Shek Kong, Ho Chung.
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	PRC	T1: River bank, In flight T2: River bank, River bed, In flight T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	T5: Dry Agricultural Land	Locally common winter visitor and migrant. Found in Kam Tin, Tsim Bei Tsui, Lo Wu, Tai Long Wan, Shuen Wan, Castle Peak coast, Chek Lap Kok.
Little Egret	<i>Egretta garzetta</i>	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.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸻	LC	T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Resident, common winter visitor and passage migrant. Widely distributed in freshwater areas throughout Hong Kong.
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	RC	T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat,	Abundant winter visitor and migrant. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Sai Kung.
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	SWV	T5: Shallow Water Habitat	Scarce winter visitor. Found in Mai Po, Long Valley, Chek Lap Kok, Ho Chung, Tai Long Wan, Tai Po, Castle Peak coast.
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	T5: Dry Agricultural Land, Shallow Water Habitat,	Abundant winter visitor. Found in Deep Bay area.
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	RC	T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, In flight	Abundant winter visitor. Found in Deep Bay area.
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	(LC)	T2: In flight	Uncommon resident. Widely distributed in lakes and ponds throughout Hong Kong.
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥		T1: River bank T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in wetland throughout Hong Kong.
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	(LC)	T3: River bank, River bed, In flight T5: Dry Agricultural Land	Common resident. Widely distributed in coastal areas throughout Hong Kong.
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	LC	T1: River bank, In flight T2: River bank, In flight T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.

Note:

Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
<p>Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance</p> <p>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)</p> <p>*Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)</p>					

Appendix L1p. Birds Recorded in January 2024

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV	
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv	
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586
Black Drongo	<i>Dicrurus macrocercus</i>	黑卷尾	Sv	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R	
Black-headed Bunting	<i>Emberiza melanocephala</i>	黑頭鵪	SaM, SWV	
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵪	PM	RC
Buff-bellied Pipit	<i>Anthus rubescens</i>	黃腹鵪	UPM, WV	
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵪	SPM	LC
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵪	R	
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU
Common Greenshank	<i>Tringa nebularia</i>	青腳鵪	PM, WV	RC
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R	
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R	
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR	
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵪	WV, PM	
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM	
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R	
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鴝	WV	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV	
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV	
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R	
Eurasian Wigeon	<i>Mareca penelope</i>	赤頸鴨	CWV	RC
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶿	UPM, WV	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵪鶉	WV	
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R	
Japanese Sparrowhawk	<i>Accipiter gularis</i>	日本松雀鷹	UPM	Cap.586
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R	
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV	
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R	
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶿	PM, WV	RC
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶿	R	
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	SWV	NT, LC
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Oriental Magpie	<i>Pica serica</i>	喜鵲	R	
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R	
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM	
Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>	黃腰柳鶯	WV	
Peregrine Falcon	<i>Falco peregrinus</i>	遊隼	SR, WV	Cap.586, LC
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鹮	WV	RC
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	UR	(LC)
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R	
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	紅咀藍鵲	R	
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R	
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM	
Rock Dove	<i>Columba livia</i>	原鴿	R	
Russet Sparrow	<i>Passer cinnamomeus</i>	山麻雀	SWV	
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R	
Spotted Redshank	<i>Tringa erythropus</i>	鶴鵲	SpM	RC
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R	
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV	
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R	
White-rumped Munia	<i>Lonchura striata</i>	白腰文鳥	R	
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R	
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵲	PM	CR, RC
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM	
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
<p>Note:</p> <p>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;</p> <p>Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)</p> <p>VU: Vulnerable on IUCN Red List of Threatened Species.</p> <p>(VU): Vulnerable in China Red Data Book Status</p> <p>(EN): Endangered in China Red Data Book Status</p> <p>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)</p> <p>WAL: Wet Agricultural Land</p> <p>DAL: Dry Agricultural Land</p> <p>SWH: Shallow Water Habitat</p> <p>P: Pond</p>				

Appendix L2. Mammal Species Recorded for Ecologically Sensitive Habitat Monitoring, 25 & 31 January 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 31/1/2024 (T1,6), 25/1/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Domestic Cat	<i>Felis catus</i>	野貓		Introduced	+				
Domestic Dog	<i>Canis lupus familiaris</i>	野狗		Introduced	+	+	+++	+	+++
Eurasian Wild Pig	<i>Sus scrofa</i>	野豬		Native	+		+		+
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	東亞家蝠	Cap. 170	Native	+	+++	+		+++
Pallas's Squirrel	<i>Callosciurus erythraeus</i>	赤腹松鼠	Cap. 170	Introduced	+				
Total No. of species					5	2	3	1	3
Total No. of Conservation Interest Species					2	1	1		1
Total No. of Native Species					2	1	2	0	2
<p>Note:</p> <p>Cap. 170: Species under protection of Wild Animals Protection Ordinance (Cap. 170)</p> <p>(NT): Near Threatened in the Red List of China's Vertebrates</p> <p>Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++ : dominant species within transect routes</p> <p>Local Restrictedness Column has been removed as said information is no longer available.</p>									

Appendix L3. Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 25 & 31 January 2024

Appendix E5: Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 25 & 31 January 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 31/1/2024 (T1,6), 25/1/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Amphibian									
Asian Common Toad	<i>Bufo melanostictus</i>	黑眶蟾蜍	-	Native				+++	
Bowring's Gecko	<i>Hemidactylus bowringii</i>	原尾蜥虎	-	Native	+++				+
Garnot's Gecko	<i>Hemidactylus garnotii</i>	鋸尾蜥虎	-	Native	+				
Chinese gecko	<i>Gekko chinensis</i>	中國壁虎	-	Native				+	
Total No. of species					2	0	0	2	1
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					2	0	0	2	1
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									

Appendix L4. Butterfly Species Recorded Ecologically Sensitive Habitat Monitoring, 25 & 31 January 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 31/1/2024 (T1,6), 25/1/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Colour Sergeant	Athyma nefte	相思帶蛱蝶						+	
Common Evening Brown	Melanitis leda	暮眼蝶						+	
Common Jester	Symbrenthia lilaea	散紋盛蛱蝶						+	
Dark Brand Bush Brown	Mycalesis mineus	小眉眼蝶			+				
Great Mormon	Papilio memnon	美鳳蝶			+				
Indian Cabbage White	Pieris canidia	東方菜粉蝶			+++				+
Long-tailed Blue	Lampides boeticus	亮灰蝶				+		+	
Pale Grass Blue	Pseudozizeeria maha	酢漿灰蝶						+	
Plum Judy	Abisara echerius	蛇目褐蛱蝶						+	
Punchinello	Zemeros flegyas	波蛱蝶						++	
Red-base Jezebel	Delias pasithoe	報喜斑粉蝶				+++	+	+++	
Small White	Pieris rapae	菜粉蝶	R		+++	+++		+++	+
Spangle	Papilio protenor	藍鳳蝶			+				
Three-spot Grass Yellow	Eurema blanda	槲黃粉蝶						+	
Total No. of species					5	3	1	10	2
Total No. of Conservation Interest Species					1	1	0	1	1

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 31/1/2024 (T1,6), 25/1/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
<p>Note:</p> <p>*Very limited data are available for the occurrence status (being native to Hong Kong) of butterflies</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</p> <p>R: Rare (Chan et al. (2011))</p>									

Appendix L5. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 25 & 31 January 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 31/1/2024 (T1,6), 25/1/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Wandering Glider	<i>Pantala flavescens</i>	黃蜻		Native				+	
Total No. of species					0	0	0	1	0
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					0	0	0	1	0
<p>Note:</p> <p>Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</p>									

APPENDIX M
WEATHER CONDITION

**APPENDIX M –
GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD**

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 January 24	19.9	75	0
2 January 24	18.7	76	0
3 January 24	18.8	64	0
4 January 24	17	67	0
5 January 24	18.8	75	0
6 January 24	20.2	76	0
7 January 24	19.9	71	0
8 January 24	19.1	73	Trace
9 January 24	20.5	77	Trace
10 January 24	20.3	67	0
11 January 24	18.9	69	Trace
12 January 24	18.9	75	0
13 January 24	19.6	57	0
14 January 24	20.7	56	0
15 January 24	20.9	71	0
16 January 24	18.7	75	0
17 January 24	19.2	72	0.1

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 January 24	21.2	74	0
19 January 24	21.1	76	0
20 January 24	21.4	75	0
21 January 24	19.1	68	Trace
22 January 24	15	72	0.5
23 January 24	7.9	75	2.7
24 January 24	9.2	59	0
25 January 24	12.3	56	0
26 January 24	15	61	0
27 January 24	15.5	67	1
28 January 24	13.7	83	2.4
29 January 24	15.9	82	Trace
30 January 24	18.3	88	Trace
31 January 24	19.3	92	Trace

* 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;	1. Discuss with ET, ER and Contractor on the implemented mitigation measures;	1. Review proposals on remedial measures submitted by Contractor;	1. Identify source(s) of impact;	
	2. Inform IEC, Contractor and ER;	2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and	2. Discuss with IEC, ET and Contractor on the Implemented mitigation measures;	2. Inform the ER and confirm notification of the noncompliance in writing;	
	3. Check monitoring data, all plant, equipment, Contractor’s working methods and other relative information;	3. Review submit proposal and advise the ET and ER on the Effectiveness of the implemented mitigation measures.	3. Make agreement on the remedial measures to be implemented; and	3. Rectify unacceptable practice;	
	4. Review proposals on remedial measures submitted by Contractor;		4. Supervise the implementation of agreed remedial measures.	4. Check all plant and equipment;	
	5. Discuss remedial measures with IEC and Contractor and ER; and			5. Consider changes of working methods;	
	6. Review submit proposal and ensure the effectiveness of the implemented mitigation measures.			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;	1. Discuss with ET, Contractor and ER on the implemented mitigation measures;	1. Discuss with ET, IEC and Contractor on the proposed mitigation measures;	1. Identify source(s) of impact;	
	2. Inform IEC, Contractor and ER;	2. Review the proposed remedial measures submitted by Contractor and advise	2. Make agreement on the remedial measures to be implemented; and	2. Inform the ER and confirm notification of the non-compliance in writing;	
	3. Check monitoring data, all plant, equipment,			3. Rectify unacceptable	

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	<p>Contractor's working methods and other relative information;</p> <p>4. Discuss remedial measures with IEC, contractor and ER; and</p> <p>5. Review submit proposal and ensure the agreed remedial measures are implemented</p>	<p>the ER accordingly; and</p> <p>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</p>	<p>3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures</p>	<p>practice;</p> <p>4. Check all plant and equipment and consider changes of working methods;</p> <p>5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</p> <p>6. Implement the agreed mitigation measures.</p>
Limit level being exceeded by one sampling day	<p>1. Conduct addition site investigation on the same day;</p> <p>2. Inform IEC, Contractor and ER;</p> <p>3. Rectify unacceptable practice;</p> <p>4. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information;</p> <p>5. Consider changes of working methods;</p> <p>6. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>7. Review the submit</p>	<p>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</p> <p>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</p> <p>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</p>	<p>1. Discuss with ET, IEC and Contractor on the implemented remedial measures;</p> <p>2. Request Contractor to critically review the working methods;</p> <p>3. Make agreement on the remedial measures to be implemented; and</p> <p>4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</p>	<p>1. Identify source(s) of impact;</p> <p>2. Inform the ER and confirm notification of the noncompliance in writing;</p> <p>3. Rectify unacceptable practice;</p> <p>4. Check all plant and equipment and consider changes of working methods;</p> <p>5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of</p>

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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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 CH ₄ 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;

	<p>procedures to determine possible mitigation to be implemented;</p> <p>6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken;</p> <p>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>their effectiveness and advise the ER accordingly;</p> <p>3. Supervise the implementation of remedial measures</p>	<p>remedial measures to be implemented;</p> <p>4. Supervise and ensure remedial measures properly implemented; and</p> <p>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.</p>	<p>3. Implement the agreed proposals;</p> <p>4. Resubmit proposals if problem still not under control;</p> <p>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</p>
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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.	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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

	<p>2. Immediately inform IEC, Contractor and PP.</p> <p>3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>4. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>5. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
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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.	<p>data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
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Limit Level Exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Identify potential source(s) of impact;</p> <p>3. Immediately inform IEC, Contractor and PP.</p> <p>4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
Operational Phase				
Action Level	1. Check monitoring	1. Check monitoring	1. Confirm receipt of	1. Check the monitoring

exceeded.	<p>data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
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Limit Level exceeded.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).
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Table N-6.3 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna
WMA20002\App N - Event Action Plan

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.	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>

	<p>impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>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.</p>		
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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.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p>

	<p>construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>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.</p>		<p>3. Supervise the instigated further mitigation measure(s).</p>
Limit Level exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s),</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the</p>

	<p>natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>then propose and implement the further mitigation measure(s); and</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
Operational Phase				

Action Level exceeded.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).
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Limit Level exceeded.	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).

	<p>site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>			
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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.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>

	<p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	results to the PP.		
Limit Level exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>

	<p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>accordingly; and</p> <p>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.</p>		
Operational Phase				
Action Level exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit</p>

	<p>check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>advise the PP accordingly; and</p> <p>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.</p>	<p>remedial measures(s) to mitigate the impact(s) identified.</p>	<p>frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
Limit Level exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p>

	<p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed</p>	<p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
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	with the PP.			
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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	$L_{eq}(30 \text{ min.}) \text{ dB(A)}$	2	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
	Non-Aquatic Fauna	3	3	0	0
	General Site Inspection (LVNP)	0	0	0	0

APPENDIX P
SITE AUDIT SUMMARY

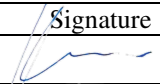
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240102
Date	2 January 2024 (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	
240102-R01	• Dust suppression should be enhanced at Portion 3 and 13.	B 1
240102-R02	• The NRMM label of the generator at Portion 3 should be displayed properly.	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. 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.:231228), item 231228-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		2 January 2024
Checked by	Dr. Priscilla Choy		2 January 2024

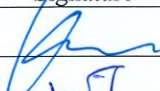

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240109
Date	9 January 2024 (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	
240109-R01	<ul style="list-style-type: none"> Mitigation measures for dust impact at Portion 3 should be enhanced. Dust generation of exposed haul road was observed during the site inspection. 	B 1
	C. Noise	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Land Contamination	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landfill Gas Hazard	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	J. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	K. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	L. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.:240102), all of the environmental deficiencies were observed improved/rectified during the site inspection. 	

	Name	Signature	Date
Recorded by	Marco Ma		9 January 2024
Checked by	Dr. Priscilla Choy		9 January 2024

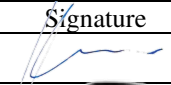

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240117
Date	17 January 2024 (Wednesday)
Time	14:00 – 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
240117-R03	• The haul road at Portion 6A should be kept clean and free from dust .	B 9
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240117-R01	• Temporary drainage system at Pak Shek Au should be reviewed to prevent muddy water discharge in the coming wet season.	D 2i
	<i>E. Waste / Chemical Management</i>	
240117-R02	• Drip tray for the chemical/fuel containers should be provided at Pak Shek Au.	E 14
	<i>F. Land Contamination</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landfill Gas Hazard</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>K. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:240109), item 240109-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		17 January 2024
Checked by	Dr. Priscilla Choy		17 January 2024

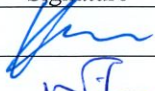

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240123
Date	23 January 2024 (Tuesday)
Time	09:30 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240123-R01	• Temporary drainage system at Portion 1C should be maintained.	D 4
240123-R02	• Debris and litter in RC2 should be cleared.	D 6
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Land Contamination</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landfill Gas Hazard</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>K. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:240117), all environmental deficiencies were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		23 January 2024
Checked by	Dr. Priscilla Choy		23 January 2024

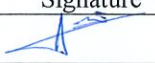
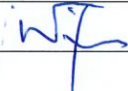
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240130
Date	30 January 2024 (Tuesday)
Time	09:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240130-R02	• Groundwater pumped out should be redirected to treatment facilities.	D 5
	E. Waste / Chemical Management	
240130-R01	• Drip trays should be provided to chemical container.	E 14
	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.:240123), all environmental deficiencies were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Adrian Lam		30 January 2024
Checked by	Dr. Priscilla Choy		30 January 2024



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	240103
Date	3 January 2024 (Wednesday)
Time	9:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240103-O01	• Proper drainage system should be established at Portion 2 as soon as possible.	D 1
240103-R02	• Silt accumulating in the nullah at Portion 11 should be cleared. Contractor was also reminded to enhance water mitigation measure to prevent further accumulation.	D 1
240103-R03	• Enhance the mitigation measure to prevent waste or surface runoff for the discharge point of Portion 1.	D 4
240103-R04	• Contractor are reminded to ensure the vehicles are properly cleaned of dirt and dust before leaving the site.	D 11
240103-R05	• Silt accumulating in WetSep should be cleared to ensure water treatment capacity of the WetSep.	D 5iv
	E. Waste / Chemical Management	
240103-O02	• Oil leakage was observed. Contractor was reminded to clear the oil leakage immediately.	E 13
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
240103-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	G 2
	H. Ecology	
240103-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H 2
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:231229), item no. 231229-R01, 231229-R02 231229-R03 and 231229-R06 were remarked as 240103-R01, 240103-R02, 240103-R03 and 240103-R04, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		5 January 2024
Checked by	Dr. Priscilla Choy		5 January 2024



Service Contract No. NDO 04/2919 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/2919/02 – 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	240110
Date	10 January 2024 (Wednesday)
Time	9:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
240110-R06	• Provide impervious sheeting for the dusty stockpile.	B2
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240110-O01	• Proper drainage system should be established at Portion 2 as soon as possible.	D1
240110-O02	• Debris and mud were observed at nearby Wetsep. Contractor was reminded to clean it and enhance the water mitigation measure to avoid surface runoff.	D4
240110-R02	• Silt accumulating in the nullah at Portion 11 should be cleared. Contractor was also reminded to enhance water mitigation measure to prevent further accumulation.	D1
240110-R03	• Silt accumulating in WetSep should be cleared to ensure water treatment capacity of the WetSep.	D5iv
240110-R04	• Clean the mud inside the silt curtain as maintenance.	D17
240110-R07	• Provide impervious sheeting for the exposed slope.	D7
	<i>E. Waste / Chemical Management</i>	
240110-R05	• Keep site tidy and clean avoid waste accumulation.	E1
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
240110-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	G2
	<i>H. Ecology</i>	
240110-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:240103), item no. 240103-O02, 240103-R03, and 240103-R04 were improved by the Contractor. Item no. 240103-O01, 240103-R01, 240103-R02, and 240103-R05 were remarked as 240110-O01, 240110-R01, 240110-R02 and 240110-R03, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Him Ng		15 January 2024
Checked by	Dr. Priscilla Choy		15 January 2024


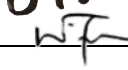
Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240117
Date	17 January 2024 (Wednesday)
Time	9:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240117-O01	• Treated water was discharged into inappropriate location. Contractor was reminded to discharge water into the valid point.	D6
240117-R02	• Silt accumulating in the nullah at Portion 11 should be cleared. Contractor was also reminded to enhance water mitigation measure to prevent further accumulation.	D1
240117-R03	• Enhance the water mitigation measure to avoid surface runoff to nearby watercourse.	D4
240117-R04	• Clean the mud inside the silt curtain as maintenance.	D17
	E. Waste / Chemical Management	
240117-R05	• Keep site tidy and clean to avoid waste accumulation for Dills Corner.	E1
240117-R06	• Provide drip tray for the chemical/fuel containers for Dills Corner.	E14
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
240117-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	G2
	H. Ecology	
240117-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240110), item no. 240110-O01, 240110-O02, 240110-R03, 240110-R05, 240110-R06 and 240110-R07 were improved by the Contractor. Item no. 240110-R01, 240110-R02, and 240110-R04 were remarked as 240117-R01, 240117-R02 and 240117-R04, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Him Ng		17 January 2024
Checked by	Dr. Priscilla Choy		17 January 2024


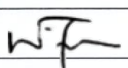
Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240124
Date	24 January 2024 (Wednesday)
Time	9:30 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240124-O01	• Treated water from WetSep was discharged into inappropriate location. Contractor was reminded to discharge treated water into the valid discharge point.	D6
240124-R02	• Muddy debris in the U-channel near the nullah at Portion 11 should be cleared.	D6
240124-R03	• Vehicles should be properly cleared of earth and dust before leaving the site.	D11
240124-R04	• Water mitigation measures should be provided for the works area next to Shek Sheung River to prevent muddy runoff from discharging into the river.	D3
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
240124-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	G2
	<i>H. Ecology</i>	
240124-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:240117), item no. 240117-O01, and 240117-R01 were remarked as 240124-R01, 240124-R02 and 240124-R04, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		26 January 2024
Checked by	Dr. Priscilla Choy		26 January 2024

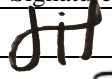

Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240131
Date	31 January 2024 (Wednesday)
Time	9:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240131-O01	• Treated water from WetSep was discharged into inappropriate location. Contractor was reminded to discharge treated water into the valid discharge point.	D6
240131-R02	• Muddy debris in the U-channel near the nullah at Portion 11 should be cleared.	D6
240131-R03	• Water mitigation measures should be provided for the works area next to Shek Sheung River to prevent muddy runoff from discharging into the river.	D3
240131-R04	• Enhance the water mitigation measure to avoid surface runoff. (Portion 5)	D4
	<i>E. Waste / Chemical Management</i>	
240131-R05	• Provide drip tray for chemical/fuel containers. (Portion 5)	E14
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
240131-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	G2
	<i>H. Ecology</i>	
240131-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:240124), item no. 240124-R03 was improved by the Contractor. Item no. 240124-O01, 240124-R01, 240124-R02 and 240124-R04 were remarked as 240131-O01, 240131-R01, 240131-R02 and 240131-R03, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Him Ng		1 February 2024
Checked by	Dr. Priscilla Choy		1 February 2024



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	240105
Date	5 January 2024 (Friday)
Time	10:00-11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
230105-R01	• Exposed work site should be sprayed with water as dust suppression.	B1
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape & Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	Follow-up on previous audit section (Ref. No.:231227), no major environmental deficiency was identified during site inspection..	

	Name	Signature	Date
Recorded by	Adrian Lam		5 January 2024
Checked by	Dr. Priscilla Choy		5 January 2024



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	240112
Date	12 January 2024 (Friday)
Time	10:00-10:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape & Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	Follow-up on previous audit section (Ref. No.:240105), item no. 240105-R01 was improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Rico Chan		13 January 2024
Checked by	Dr. Priscilla Choy		13 January 2024

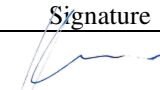
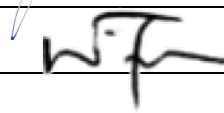
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240116
Date	16 January 2024 (Tuesday)
Time	14:00-14:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape & Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	Follow-up on previous audit section (Ref. No.:240112), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		16 January 2024
Checked by	Dr. Priscilla Choy		16 January 2024

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	240123
Date	23 January 2024 (Tuesday)
Time	09:00-09:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240123-R02	• Wheel-washing facilities should be provided at the site entrance/exit.	D 12i
	<i>E. Waste / Chemical Management</i>	
240123-R01	• The chemical/fuel containers should be placed inside the drip tray.	E 14
	<i>F. Landscape & Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	Follow-up on previous audit section (Ref. No.:240116), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		23 January 2024
Checked by	Dr. Priscilla Choy		23 January 2024

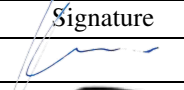

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	240104
Date	4 January 2024 (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	
240104-R02	<ul style="list-style-type: none"> The exposed haul road at Portion K should be sprayed with water regularly as dust suppression. 	B 1
	C. Noise	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Ecology	
240104-R01	<ul style="list-style-type: none"> The silt curtain at Bridge F should be maintained properly and regularly. 	H 5
	I. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	J. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 231228), item 231228-R01 was remarked as 240104-R01. Follow-up action is needed to be reviewed. 	

	Name	Signature	Date
Recorded by	Marco Ma		4 January 2024
Checked by	Dr. Priscilla Choy		4 January 2024


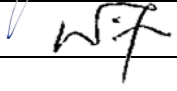
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	240111
Date	11 January 2024 (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	
	• 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	
240111-R01	• The 2m high green barrier of the 10m vegetated buffer zone between A2-03 and A2-04 should be maintained properly and regularly.	H 3
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 240104), item 240104-R01 and item 240104-R02 were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		11 January 2024
Checked by	Dr. Priscilla Choy		11 January 2024

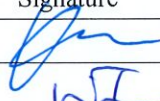
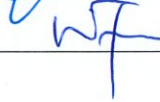
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	240115
Date	15 January 2024 (Monday)
Time	09:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
240115-R02	• Dust suppression measures should be enhanced e.g. water-spraying.	B 1
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
240115-R01	• General refuse should be disposed of regularly and properly at depressed road A.	E 1iii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
240115-R03	• The 2m high green barrier of the 10m vegetated buffer zone between A2-03 and A2-04 should be maintained properly and regularly.	H 3
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 240111), item 240111-R01 was remarked as 240115-R03. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		15 January 2024
Checked by	Dr. Priscilla Choy		15 January 2024

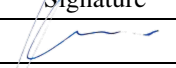

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	240125
Date	25 January 2024 (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	
240125-R01	• The haul road at Portion K should be watered regularly as dust suppression.	B 1
240125-R02	• Dusty stockpile at Portion K should be covered properly to reduce dust emission.	B 2
	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	
240125-R03	• Drip tray for the chemical/fuel containers should be provided. Oil spillage was observed.	E 13, E 14
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
240125-R04	• The 2m high green barrier of the 10m vegetated buffer zone between A2-03 and A2-04 should be maintained properly and regularly.	H 3
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 240115), item 240115-R01 and 240115-R02 were observed improved/rectified by the Contractor during the site inspection. Item 240115-R03 was remarked as 240125-R04. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		25 January 2024
Checked by	Dr. Priscilla Choy		25 January 2024

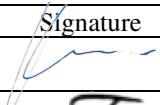
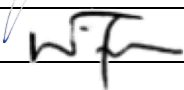
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240102
Date	2 January 2024 (Tuesday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 231227), no environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		2 January 2024
Checked by	Dr. Priscilla Choy		2 January 2024


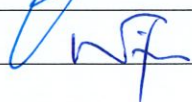
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240108
Date	8 January 2024 (Monday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
240108-R01	• Drip tray should be provided for the chemical/fuel containers at C4-01b.	E 14
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 240102), no environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		8 January 2024
Checked by	Dr. Priscilla Choy		8 January 2024

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	240118
Date	18 January 2024 (Thursday)
Time	9:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
240118-R01	• Provide valid NRM label for the generator at C1_03b.	B24
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240118-R02	• Enhance the water mitigation measure to avoid surface runoff at Bridge C.	D4
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 240108), item no. 240108-R01 was rectified by the Contractor.	

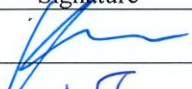

	Name	Signature	Date
Recorded by	Him Ng		18 January 2024
Checked by	Dr. Priscilla Choy		18 January 2024

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	240122
Date	22 January 2024 (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.: 240118), all environmental deficiencies were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		22 January 2024
Checked by	Dr. Priscilla Choy		22 January 2024

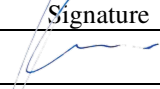
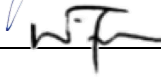
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240129
Date	29 January 2024 (Monday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
240129-R01	• Sandbag barriers should be enhanced at D2-01 to make sure the surface runoff stays in the site boundary.	D 4
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 240122), no environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		29 January 2024
Checked by	Dr. Priscilla Choy		29 January 2024

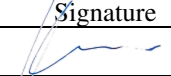
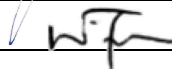
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240105
Date	5 January 2024 (Friday)
Time	10:00 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> • Follow-up on previous audit section (Ref. No.: 231229), no environmental deficiency was identified during the site inspection. • The stockpile of dusty material within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The Contractor of ND/2019/04 was reminded to review and maintain regularly to prevent dust generation. 	

	Name	Signature	Date
Recorded by	Marco Ma		5 January 2024
Checked by	Dr. Priscilla Choy		5 January 2024

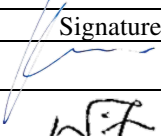
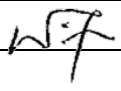
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240112
Date	12 January 2024 (Friday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> • Follow-up on previous audit section (Ref. No.: 240105), no environmental deficiency was identified during the site inspection. • The stockpile of dusty material within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The Contractor of ND/2019/04 was reminded to review and maintain regularly to prevent dust generation. 	

	Name	Signature	Date
Recorded by	Marco Ma		12 January 2024
Checked by	Dr. Priscilla Choy		12 January 2024


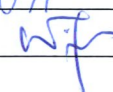
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240119
Date	19 January 2024 (Friday)
Time	9:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
240119-R01	• Keep site tidy and clean at near Ma Sik Road.	E 12
	<i>F. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 240112), no environmental deficiency was identified during the site inspection.	
	• The stockpile of dusty material within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The Contractor of ND/2019/04 was reminded to review and maintain regularly to prevent dust generation.	

	Name	Signature	Date
Recorded by	Him Ng		19 January 2024
Checked by	Dr. Priscilla Choy		19 January 2024



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	240126
Date	26 January 2024 (Friday)
Time	9:45 – 10:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 240119), item no. 240119-R01 was rectified by the Contractor. The stockpile of dusty material within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The Contractor of ND/2019/04 was reminded to review and maintain regularly to prevent dust generation. 	

	Name	Signature	Date
Recorded by	Him Ng		26 January 2024
Checked by	Dr. Priscilla Choy		26 January 2024

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/m ² 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	<p>Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase</p> <ul style="list-style-type: none"> 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
		<p>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.</p> <ul style="list-style-type: none"> • 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 					<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>N/A</p> <p>N/A</p> <p>^</p>

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
		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where 	Control construction airborne noise	Contractor	All construction sites	Construction phase	^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>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;</p> <ul style="list-style-type: none"> • 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. 					<p>^</p> <p>^</p>
S4.9	N2	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N3	Install movable noise barriers and full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N4	Use of “Quiet” Plant and Working Methods	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N6	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected	Contractor	Selected representative	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			representative locations		noise monitoring stations		
Water Quality Impact (Construction Phase)							
S5.7	W1	<p><u>Construction Runoff and Site Drainage</u></p> <p>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:</p> <p>Stormwater Pollution Control Plan</p> <ul style="list-style-type: none"> 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 8m³ 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	<p>^</p> <p>#</p>

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
		<p>inputs from a variety of sources and suited to applications where the influent is pumped.</p> <ul style="list-style-type: none"> 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 					<p>^</p> <p>^</p> <p>#</p> <p>*</p> <p>^</p>

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
		<p>foundation excavations should be discharged into storm drains via silt removal facilities.</p> <ul style="list-style-type: none"> • All open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m³ 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 					<p>^</p> <p>^</p> <p>^</p> <p>#</p>

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
		<p>public roads and drains.</p> <ul style="list-style-type: none"> 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. 					<p>N/A</p> <p>^</p> <p>^</p> <p>^</p>
S5.7	W2	<p><u>Stream Diversion</u></p> <ul style="list-style-type: none"> In order to prevent sediment transport during riverbank works, deployment of silt curtain should be implemented, especially when construction works encroach or occur in close distance to water body. It is recommended to carry out all the riverbank works and diversion works within a cofferdam or diaphragm wall and the work areas on riverbed should be kept in dry condition. 	Minimize water quality impact due to stream diversion	Contractor	All streams that required diversion	Construction phase	#

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S5.7	W3	<u>Groundwater from Contaminated Area</u> <ul style="list-style-type: none"> 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	<u>Sewage from Workforce</u> Portable chemical toilets and sewage holding tanks should be provided for	Handling of site sewage	Contractor	All construction sites	Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<p>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.</p> <p>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.</p>					
Waste Management (Construction Waste)							
S7.6	WM1	<p><u>Waste Reduction Measures</u></p> <p>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:</p> <ul style="list-style-type: none"> 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	<p>^</p> <p>^</p>

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
		<p>damage and contamination of construction materials;</p> <ul style="list-style-type: none"> 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. 					<p>^</p> <p>N/A</p> <p>^</p>
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	<p><u>Good Site Practice</u></p> <p>The following good site practices are recommended throughout the construction activities:</p> <ul style="list-style-type: none"> 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	<p>^</p> <p>^</p>

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
		<ul style="list-style-type: none"> 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	<u>Storage of Waste</u> The following recommendation should be implemented to minimize the impacts: <ul style="list-style-type: none"> 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	<u>Collection and Transportation of Waste</u> The following recommendation should be implemented to minimize the	Minimize waste impact	Contractor	All construction	Construction	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		impacts: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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		<p>recycled and disposed of for checking;</p> <p>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.</p> <p>Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area.</p>					N/A ^
S7.6	WM7	<p><u>Contaminated Soil</u></p> <p>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.</p>	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction phase	^
S7.6	WM8	<p><u>Chemical Waste</u></p> <p>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</p>	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	<u>General Waste</u> <ul style="list-style-type: none"> 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	<u>Sewage</u> <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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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		<p>possible to minimize runoff from excavated soils;</p> <ul style="list-style-type: none"> 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	<p>Solidification/Stabilization</p> <ul style="list-style-type: none"> 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	<p>N/A</p> <p>^</p> <p>^</p>

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		<p>practicable from the nearby noise sensitive receivers;</p> <ul style="list-style-type: none"> 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 banded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or site run-off during rainy season; and <p>If necessary, there should be clear and separated areas for stockpiling of untreated and treated materials.</p>					<p>^</p> <p>^</p> <p>*</p>
S 8.7.2 and Appendix 8.4	LC9	<p><u>Safety Measures</u></p> <ul style="list-style-type: none"> 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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		<p>necessary;</p> <ul style="list-style-type: none"> 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 <p>Eating, drinking and smoking should not be allowed in the excavation areas and treatment area to avoid inadvertent ingestion of arsenic containing soil.</p>					
Landfill Gas Hazard							
S10.6	LFG1	<ul style="list-style-type: none"> 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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		<p>adverse circumstances, should be present on all worksites throughout the works.</p> <ul style="list-style-type: none"> 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 premises, 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. 					<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

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		<ul style="list-style-type: none"> 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. During the construction works, adequate fire extinguishers and breathing apparatus sets should be made available on site and appropriate training given in their use. 					<p>^</p> <p>N/A</p> <p>^</p>

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		<ul style="list-style-type: none"> Ongoing gas monitoring should be considered for offices, stores etc set up on site. 					^
S10.6	LFG3	<p>Utility Companies</p> <ul style="list-style-type: none"> 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 QLFCHA. 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. <p>Building Management</p> <ul style="list-style-type: none"> 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 	<p>To minimize the risk of LFG hazards to the occupants, maintenance personnel, visitors and other users within MTLL and its 250m Consultation Zone</p>	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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		<p>precautions required to be taken.</p> <ul style="list-style-type: none"> 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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		<p>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.</p> <ul style="list-style-type: none"> 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.					
<i>Cultural Heritage (Pre-construction Phase)</i>							
S11.6.1	CH1	<p><u>Undertaking Further Archaeological Survey to Cover the Outstanding Areas</u></p> <p>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.</p>	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	<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 3 and In FLN NDA for Site 5.	After land resumption but before construction commencement of the zone	N/A
S11.6.1	CH3	<u>Undertaking Preservation in-situ for Site 7</u> 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

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		Authority under the AM Ordinance.					
S11.6.1	CH4	<u>Undertaking Induction Training</u> 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	<u>Undertaking Archaeological Impact Assessment before Construction at A1</u> 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

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		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	<u>Undertaking Archaeological Impact Assessment before Construction within A1 but except Area B1-8 and B1-9</u> 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	<u>Undertaking baseline condition survey and baseline vibration impact assessment</u> 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	<u>Undertaking baseline condition survey and baseline vibration impact assessment</u> 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	<u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u> 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

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		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	<u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u> 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
<i>Cultural Heritage (Construction Phase)</i>							
S11.6.1	CH13	<u>Inform Upon Archaeological Discovery</u> 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	<u>Watertable Monitoring</u> 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	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment	^
<i>Landscape and Visual Impact (Detailed Design, Prior to Construction, Construction and Operation Phases)</i>							
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 – Existing 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	<p>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.</p> <p>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.</p> <p>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.</p> <p>For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted,</p>	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	<p>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.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM7	LV9	<p>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.</p> <p>Compensatory planting is proposed at the potential open areas such as</p>	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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		<p>open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Raphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.</p>					
S.12.9 MM8	LV10	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate</p>					N/A

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		<p>locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>.</p> <p>In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					

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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	<p>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.</p> <p>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)</p>	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	<p>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)</p> <p>Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.</p>	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

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S.12.9 MM14.1	LV16	<p>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.</p> <p>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.</p> <p>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)</p>	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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		<p>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.</p> <p>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)</p>			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	<p>Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs.</p> <p>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.</p>	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	<p>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.</p> <p>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).</p>	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
<i>Ecology (Prior to Construction Phase or throughout the project)</i>							
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

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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 egrettry.	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 egrettry. 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 egrettry and areas north of Long Valley along the Ng Tung River to the Shenzhen River	Detailed design phase	N/A

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			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

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					northern and northeastern boundaries.		
S13.9	E8	<p>Preparation and implementation of Guidelines for building design measures to minimize mortality and light and glare impacts to fauna.</p> <p>Guidelines to address the following measures:</p> <p>Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project.</p> <p>Measures to include the following:</p> <ul style="list-style-type: none"> 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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		<ul style="list-style-type: none"> 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	<p>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.</p> <p>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.</p> <p>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.</p>	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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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Ecology (Construction Phase)							
S13.9	E12	Compensatory egret 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 Egret habitat outside breeding season	Compensate for loss of Man Kam To Road egret habitat. Avoid mortality of breeding egrets	Project Proponent/ Detailed Design Consultant/ Contractor	FLN area A1-7 500m from Man Kam To Road Egret habitat.	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	<p>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.</p> <p>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.</p> <p>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.</p>	Minimize impacts direct and indirect impacts of habitat loss, disturbance, pollution and fragmentation on Ma Tso Lung Stream and marsh and riparian corridor of importance to species of conservation significance.	PlanD/ Project Proponent/ Developer/ Detailed Design Consultant/ Contractor. (Design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas H1-1, F12 and F1-3 and Lok Ma Chau Loop Eastern Connection Road.	Detailed design and construction phases.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.13.9	E15	Creation and enhancement of proposed Long Valley Nature Park and creation and enhancement of wetland and buffer planting within LVNP.	Compensate for wetland loss arising from the project	Project Proponent/ Contractor (LVNP Detailed Habitat Creation & Management Plan)	Long Valley, (KTN area C1-9).	Construction phase.	^
S13.9	E16	Creation of Green Corridors along the Sheung Yue, Ng Tung and Shek Sheung Rivers, retention and provision of screen plantings where feasible; provision of Open Space areas and development areas along river corridors; Design and erection of 2m high solid dull green site barrier fence between river channel and any active works area along or adjacent to Ng Tung, Sheung Yue and Shek Sheung Rivers. Ng Tung, Sheung Yue and Shek Sheung Rivers screen planting.	Minimize disturbance to waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Detailed Design Consultant/ Contractor	Ng Tung, Sheung Yue and Shek Sheung Rivers	Detailed design and Construction phases.	#

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S13.9	E17	<p>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.</p> <p>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.</p>	<p>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.</p>	Contractor	<p>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</p>	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
		<p>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,</p> <p>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, translocation and translocation.</p> <p>Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.</p> <p>Pre-site clearance check on all construction sites for presence of Chinese Bullfrog, translocation to suitable areas including LVNP.</p>	<p>avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, translocation and translocation.</p>				
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, translocation 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
		<p>translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.</p> <p>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</p> <p>Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of Small Snakehead and <i>Somaniathelphusa zanklon</i>. Capture any <i>Somaniathelphusa zanklon</i> found and translocate to Ma Tso Lung Stream/ other suitable areas including LVNP</p>	<p>and implement adjustments to avoid, minimize or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation</p>				
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 – Existing 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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		<p>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.</p> <p>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.</p>		Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV6- DP2	<p>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.</p>	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	<i>Onsite where possible, otherwise consider offsite locations</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		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	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	<i>Onsite</i>	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	<i>In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		<p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					
S.12.A9	LV10-	Vertical Greening – Planting of climbers to grow up vertical surfaces were	Soften hard surfaces and	Government	<i>On appropriate</i>	Prior to	N/A

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MM9	DP2	appropriate (e.g. viaduct piers, noise barriers).	facilities	Detailed Design Consultant/ Contractor	<i>structures</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<i>On viaducts or along roads.</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		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	<i>Onsite where possible. Otherwise consider offsite locations</i>	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 as consideration 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	<i>Channelized watercourse, particularly the Ma Wat River Channel Diversion</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		<p>maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.</p> <p>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.</p>					
S.12.A9 MM15	LV15- DP2	<p>Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs.</p> <p>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.</p>	<p>Reprovision for ponds lost due to the Project.</p>	<p>Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p><i>E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA</i></p>	<p>Prior to Construction, Construction Phase Maintenance in Operation Phase</p>	N/A
<i>Landscape and Visual (Construction)</i>							
S.12.A9 MM16	LV16- DP2	<p>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.</p> <p>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).</p>	<p>To screen undesirable views of the works site.</p>	<p>Contractor</p>	<p><i>Throughout NDAs</i></p>	<p>Construction Phase</p>	^

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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

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			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	<p>be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc.</p> <p>Guidelines stated should be followed.</p> <p>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.</p> <p>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.</p> <p>Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.</p>	watercourses	Design Consultant/ Contractor	<i>particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section</i>	And Construction Phase	
S.12.A9 MM4	LV5- DP3	<p>Tree Protection & Preservation – Existing trees to be retained within the Project Site should be carefully protected during construction.</p> <p>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.</p> <p>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</p>	Protect and Preserve Trees	Government Detailed Design Consultant/ Contractor	<i>Onsite</i>	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	<p>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.</p> <p>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.</p> <p>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.</p>	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	<i>Onsite where possible.</i> <i>Otherwise consider offsite locations.</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM6	LV7- DP3	<p>Slope Landscaping – Site formation should be reduced as far as possible.</p> <p>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</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and</p>	Government Detailed Design Consultant/	<i>Onsite</i>	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
		<p>slope gradient and site conditions allow.</p> <p>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.</p>	<p>subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	Contractor		Maintenance in Operation Phase	
S.12.A9 MM7	LV8- DP3	<p>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.</p> <p>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 <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.</p>	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	<p><i>Onsite where possible.</i></p> <p><i>Otherwise consider offsite locations</i></p>	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	<i>In areas</i>	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM8	DP3	<p>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.</p> <p>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 <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Raphiolepis indica</i>, and <i>Rhododendron simsii</i>. 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</p>	woodland to compensate for those areas of quality woodland lost.	Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<i>identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i>	Construction, Construction Phase & Maintenance in Operation Phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9 MM9	LV10- DP3	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government Detailed Design Consultant/ Contractor	<i>On appropriate structures</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<i>On viaducts or</i>	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM12	DP3	the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	straight edges and provide greening along roads.	Detailed Design Consultant/ Contractor	<i>along roads.</i>	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	<i>Onsite where possible. Otherwise consider offsite locations</i>	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	<i>Channelized watercourse, particularly the</i>	Prior to Construction, Construction	N/A

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		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	<i>Ma Wat River Channel Diversion</i>	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	<i>E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA</i>	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	<i>Throughout NDAs</i>	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/	<u>Throughout NDAs,</u>	Prior to Construction, Construction & for all	N/A

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		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/	<u>Throughout NDAs, particularly for reservoirs</u>	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

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		<p>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.</p> <p>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.</p> <p>Construction time frame should also be considered and designs seek to keep it to a practical minimum.</p>	into the surrounding landscape				
S.12.A9	LV4-	Tree Protection & Preservation – Existing trees to be retained within the	Protect and Preserve Trees	Government /	Onsite	Prior to Construction	^

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MM4	DP4	<p>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.</p> <p>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.</p>		Detailed Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV5- DP4	<p>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.</p> <p>A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC</p>	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

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		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

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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 <i>Melastoma malabathricum</i> , <i>Diospyros vaccinioides</i> , <i>Gardenia jasminoides</i> , <i>Ixora chinensis</i> , <i>Ligustrum sinense</i> , <i>Litsea rotundifolia</i> , <i>Melastoma dodecandrum</i> , <i>Atalantia buxifolia</i> , <i>Rhodomyrtus tomentosa</i> , <i>Raphiolepis indica</i> , and <i>Rhododendron simsii</i> 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 <i>Ailanthus fordii</i> , <i>Bischofia javanica</i> , <i>Castanopsis fissa</i> , <i>Celtis sinensis</i> , <i>Cinnamomum burmannii</i> , <i>Cinnamomum camphora</i> ,	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
		<p>Xanthoxylum avicennae, Hibiscus 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, Rraphiolepis indica, and Rhododendron simsii.</p> <p>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.</p>					
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

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			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
<i>Landscape and Visual (Construction)</i>							
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	<u>Throughout NDAs</u>	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	<u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u> 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	<u>Undertaking baseline condition survey and baseline vibration impact assessment</u> 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	<u>Relocation of Built Heritages</u> 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	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment,	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
		<p>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.</p> <p>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.</p>	general and integrate as best possible into the surrounding landscape				
S.12.B9 MM4	LV4- DP5	<p>Tree Protection & Preservation – Existing trees to be retained within the Project Site should be carefully protected during construction.</p> <p>In particular OVTs will be preserved according to ETWB Technical Circular</p>	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
		<p>(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.</p> <p>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.</p>		Consultant/ Contractor		Construction Phase	
S.12.B9 MM5	LV5- DP5	<p>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.</p> <p>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.</p>	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

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		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 <i>Melastoma malabathricum</i> , <i>Diospyros vaccinioides</i> , <i>Gardenia jasminoides</i> , <i>Ixora chinensis</i> , <i>Ligustrum sinense</i> , <i>Litsea rotundifolia</i> , <i>Melastoma dodecandrum</i> , <i>Atalantia buxifolia</i> , <i>Rhodomyrtus tomentosa</i> , <i>Raphiolepis indica</i> , and <i>Rhododendron simsii</i> 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 <i>Ailanthus fordii</i> , <i>Bischofia javanica</i> , <i>Castanopsis fissa</i> , <i>Celtis sinensis</i> , <i>Cinnamomum burmannii</i> , <i>Cinnamomum camphora</i> , <i>Xanthoxylum</i>	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

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		<p><i>avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus omentosa</i>, <i>Raphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					
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	<i>On appropriate structures</i>	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	<i>On appropriate buildings</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<u>Channelized watercourse, particularly the Ma Wat River Channel Diversion</u>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		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	<i>Throughout NDAs</i>	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	<i>Throughout NDAs</i>	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.	<i>Interface</i>	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.		<i>between areas/habitats of ecological importance and works areas (all sides of KTN area F1-2).</i>		
<i>DP7-Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works (SWHSTW)</i>							
<i>Landscape and Visual (Construction Phase and Operational Phase)</i>							
S.12.9 MM4	LV1- DP7	<p>Tree Protection & Preservation – Existing 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.</p> <p>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</p>	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	<u>Onsite</u>	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	<i>On appropriate structures</i>	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	<i>On appropriate buildings</i>	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	<i>Throughout NDAs.</i>	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	<u>Throughout NDAs, particularly for reservoirs</u>	Prior to Construction	N/A
S.12.D9 MM4	LV3- DP10	Tree Protection & Preservation – Existing 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	<u>Onsite</u>	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	<u>Onsite where possible.</u> <u>Otherwise consider offsite locations</u>	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	<p>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.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	Government/ Detailed Design Consultant/ Contractor	<u>Onsite</u>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM7	LV6- DP10	<p>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.</p> <p>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.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma</i></p>	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	<u>Onsite where possible.</u> <u>Otherwise consider offsite locations</u>	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
		<i>dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii</i> are suggested.					
S.12.D9 MM8	LV7- DP10	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>,</p>	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<u><i>In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i></u>	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
		<i>Raphiolepis indica, and Rhododendron simsii.</i> <i>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.</i>					
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	<u>On appropriate structures</u>	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	<u>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</u>	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/	<u>On viaducts or</u>	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	<u>along roads.</u>	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	<u>Channelized</u> <u>watercourse,</u> <u>particularly the</u> <u>Ma Wat River</u> <u>Channel</u> <u>Diversion</u>	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	<u>Throughout NDAs</u>	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	<u>Throughout NDAs</u>	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/	<u>Throughout NDAs</u>	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.	<u>FLN area D1-3.</u>	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.	<u>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).</u>	Construction phase.	^
Cultural Heritage (Construction Phase)							
S11.6.2	CH4-DP10	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> Construction vibration monitoring and structural strengthening measures	To minimize the potential impacts during Construction phase on any	Contractor.	<u>Identified potential vibration impacted built</u>	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		<i>heritage features</i>	survey and baseline vibration impact assessment,	
<i>DPI2-Reprovision of temporary wholesale market in FLN NDA</i>							
<i>Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)</i>							
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
		<p>proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a design 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.</p> <p>Construction time frame should also be considered and designs seek to keep it to a practical minimum.</p>					
S.12.D9 MM4	LV4- DP12	<p>Tree Protection & Preservation – Existing 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.</p> <p>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</p>	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	<p>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.</p> <p>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.</p> <p>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.</p>	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	<p>Slope Landscaping – Site formation should be reduced as far as possible.</p> <p>Seeding of modified slopes should be done as soon as grading works are</p>	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
		<p>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.</p> <p>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.</p>	<p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	Consultant/ Contractor		Maintenance in Operation Phase	
S.12.D9 MM7	LV7- DP12	<p>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.</p> <p>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.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>,</p>	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
		<i>Rhodomyrtus tomentosa</i> , <i>Rhaphiolepis indica</i> , and <i>Rhododendron simsii</i> 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 2024

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*	6.835	0.000	1.398	0.959	4.478	4.655	0.007	0.431	0.021	0.000	0.349
February											
March											
April											
May											
June											
Sub-total	6.835	0.000	1.398	0.959	4.478	4.655	0.007	0.431	0.021	0.000	0.349
July											
August											
September											
October											
November											
December											
Total	6.835	0.000	1.398	0.959	4.478	4.655	0.007	0.431	0.021	0.000	0.349

*Remarks: The actual quantities of "Disposed as Public Fill" and "Others, e.g. general refuse" are updated as of 21 January 2024.

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 50,000m³.
(5) Conversion factors for reporting purpose:
in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³
excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³
broken concrete and bitumen = 2.4 tonnes/m³
C&D Waste = 0.9 tonnes/m³
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 **2024**

Waste Flow Table

Month	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
		Hard Rock and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill* (e)	Imported Fill (f)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse#
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	1,065.96	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.96
Feb											
Mar											
Apr											
May											
June											
Sub-total	1,065.96	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.96
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Sub-total											
Total	1,065.96	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.96

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	Chemicals Waste	Others, e.g. general refuse
									(see Note 2)		
	(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

Name of Department: CEDD

Contract No.: ND/2019/03

Kwu Tung North and Fanling North New Development Areas, Phase 1:

Development of Long Valley Nature Park

Monthly Summary Waste Flow Table for 2024 (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	0.60	0.00	0.00	0.10	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Feb											
Mar											
Apr											
May											
Jun											
Sub-Total	0.60	0.00	0.00	0.10	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.60	0.00	0.00	0.10	0.51	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].

Monthly Summary Waste Flow Table for 2024 (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	2,259.44	0.00	0.00	818.85	1348.72	0.00	0.00	0.00	0.00	0.00	0.00	91.87
Feb												
Mar												
Apr												
May												
June												
Sub-total	2,259.44	0.00	0.00	818.85	1,348.72	0.00	0.00	0.00	0.000	0.000	0.00	91.87
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	2,259.44	0.00	0.00	818.85	1,348.72	0.00	0.00	0.00	0.00	0.00	0.00	91.87

Remarks:

Cut off at 21 January 2024 according to the latest cwdc record provided by EPD

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

Forecast of Total Quantities of C&D Materials to be Generated from the DCK JV											
Forecast Made at the End of the Project	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
	160,282.30	0	10,000	20,000.00	60,000.00	32,200.00	80	0.8	0	1.5	19,500.00

Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: Connie Yuen (EO)

Project : Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)

Contract No.: ND/2019/05

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated (a) = (b)+ (c)+(d)+(e)	Hard Rock and Large Broken Concrete (b)	*Reused in the Contract ©	Reused in other Projects (d)	Disposed as Public Fill (e)	Imported Fill (f)	Metals (g)	Paper/ cardboard packaging/ (h)	Plastics (i) (see Note 3)	Yard Waste (j)	Chemical Waste (k)	Others, e.g. general refuse (l)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan-24	1.283	0.000	0.408	0.000	0.875	0.000	0.008	1.462	0.006	6.520	0.000	107.140
Feb-24												
Mar-24												
Apr-24												
May-24												
Jun-24												
Sub-total	1.283	0.000	0.408	0.000	0.875	0.000	0.008	1.462	0.006	6.520	0.000	107.140
Jul-24												
Aug-24												
Sep-24												
Oct-24												
Nov-24												
Dec-24												
Total in 2024	1.283	0.000	0.408	0.000	0.875	0.000	0.008	1.462	0.006	6.520	0.000	107.140
Total of the Project since 2020	115.676	0.000	15.141	2.857	96.395	5.110	142.108	20.769	4.138	807.713	24.882	4304.730

*Approx. estimation for each dump truck is 6m³/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 115.676 (in '000m³) (a) = (b)+ (c)+(d)+(e)

Monthly Summary Waste Flow Table for 2024 (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	0.040
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040

- 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 Generated = 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)	13 th 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)	11 th 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)	27 th 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)	7 th 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 <i>Supervisor</i> , 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)	13 th 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)	22 nd 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)	28 th January 2021	A complaint was received from 1823 regarding an idling construction vehicle near Ho Sheung Heung to operate the engine for over 10	Ad-hoc training was provided to workers on switching off idling engines when awaiting on site. Poster for “Switching off idling engines” was posted at site entrance to alert workers on the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			minutes. Also, the complainant complained on noise nuisance from the speaker during meeting.	issue. For noise nuisance from the meeting, the speaker volume in the future event will be lower as much as possible.	
COM-2021-02-01	CTC Storage Yard (ND/2019/05)	4 th February 2021	A complaint was received from EPD call on 2 nd February 2021 regarding a noise complaint from a Tong Hang villager about noise from CTC storage yard at around 19:00 – 20:00 on 1 st 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 1 st 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)	16 th February 2021	A complaint was received from EPD call on 10 th February 2021 regarding a noise complaint from a Tong Hang villager about some impact noise from CTC Storage yard at Sunday's daytime (7 th February 2021).	Under investigation, erection of chain link fence for separating works area and adjacent village house was conducted by a sub-contractor on 7 th 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)	2 nd March 2021	A complaint was received from EPD call on 24 th February 2021 regarding a noise complaint from a Tong Hang villagers about some machinery noise	Further enhancement on erection of acoustics mats and mobile acoustics mat panels was conducted at strategic location at E1-01 for mitigation of the noise impact to the nearby	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			and dust from CTC Storage yard. Joint site inspection of the Contractor, the <i>supervisor</i> 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)	1 st 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)	15 th March 2021	A complaint was received from EPD call and an inspection by EPD was conducted on 9 th March 2021 regarding a dust complaint from a Tong Hang villager. The complainant	For follow up action, the Contractor provided training to remind frontline supervisors and workers to wet the auger before movement when it was dried for preventing any occasional situation that the auger was dried.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			complained that rotary drill rig shall be equipped with enclosure for dust control and rotary drill rig had exhaust disturbance. Also, the complainant requested to improve wheel washing at site entrance.	The Contractor provided training to brief frontline supervisor and the operators to prevent exhaust disturbance. Also, the drill rigs exhaust pipe shall not face to the public area. If it is avoidable, screens shall be arranged to divert the exhaust gas. An additional cut-off drain was constructed and notice signs were erected for notifying drivers to give wheel washing in front of the cut-off drains.	
COM-2021-03-03	Ma Tso Lung Road (ND/2019/01)	9 th 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 24 th and 25 th 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)	9 th 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
				<p>snipe was found;</p> <p>2. Arrange concrete pump for concreting works to minimise noise impact;</p> <p>3. Provide water spraying on the exposed earth to dampen the dusty surface;</p> <p>4. Provide shade cloth to separate works area and marsh where Greater Painted-snipe were found;</p> <p>5. Demarcation of temporary vehicle access to prohibit vehicle across the farmland;</p> <p>6. Provide 2m dull green site boundary fence along Long Valley work areas; and</p> <p>7. Block the main accesses by temporary barrier to avoid human disturbance.</p>	
COM-2021-04-02	Close to junction of Ma Wat River and Ng Tung River (ND/2019/04, ND/2019/05, ND/2019/06)	23 rd 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.	<p>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.</p> <p>The following mitigation measures will keep implemented and inspected:</p> <p>1. Installation of silt curtain, geotextiles and concrete blocks for excavation works at Ng Tung River with regular inspection;</p> <p>2. Exposed slope paved with concrete to prevent muddy runoff;</p> <p>3. Setting up wastewater treatment plants at</p>	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)	28 th 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 28 th and 29 th 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)	17 th May 2021	A complaint was referred from EPD regarding to suspected polluting effluent discharged from construction sites near Ma Wat River.	Under investigation, no pollution from works areas near Ma Wat River was observed. For wastewater pollution control, all wastewater treatment facilities have been setup at discharge points. According to the latest discharge monitoring results on April 2021, no non-compliance to limit set in discharge licence was recorded. Regular maintenance and services of the facilities have been conducted. Close monitoring	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				with checklist has been conducted by operators of the facilities. Mitigation measures such as sealing gaps between concrete blocks/water barriers/pipe pile walls have been implemented to prevent leakage. Implementation of the mitigation measures will keep reviewed and closely monitored.	
COM-2021-09-01	Chau Tau Road near the CLP Chau Tau Substation (ND/2019/01)	2 nd 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.	<p>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.</p> <p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • Rearranged the traffic route and informed the concrete lorry drivers not to use Chau Tau Road; • Keep monitoring the effectiveness of the wheel washing facilities at site exist; and • Clean up the public road immediately if soil deposit was observed. 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2021-09-02	Not specified (ND/2019/01)	3 rd September 2021	A complaint was referred by EPD regarding C&D waste stored on site.	<p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> 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. <p>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.</p>	Closed
COM-2021-11-01	Close to Shek Wu San Tsuen (ND/2019/04)	3 rd November 2021	A complaint was referred from EPD on 22 th November 2021, about various issues including suspected environmental nuisances from the captioned Project from a member of public on 3 rd Nov 2021. He followed-up again on 19 th Nov 2021.	<p>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.</p> <p>Air quality monitoring was carried out at location FLN-DMS1 - Scattered Village</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • 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)	13 rd 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。"	<p>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:</p> <ul style="list-style-type: none"> • 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 <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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)	13 rd January 2022	A complaint was referred from EPD on 14 Jan 2022 from a public member alleged the captioned Project of “我們每個工作天都會受到高噪音和震動的影響，在沒有足夠的保障下，使近距離的民居十分擔心，屋裂有惡化跡象，兒童/長者難有	Contractor have carried out daily noise monitoring and vibration monitoring. No exceedance was recorded. The monitoring results are displayed on the notice board for easy reference. For noise control measures, QPME label are affixed to generators and acoustic noise barriers are mounted on powered mechanical equipments such as	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			寧靜環境，成人在家中工作、兒童做功課在噪雜的環保下，難以適應，我們很希望受到合理的重視和改善，使實際環境不會太差。”	excavators, crawler cranes and vibration hammers and installed along hoarding to minimize noise nuisance to neighborhood. Based on the findings of investigation, no exceedance of noise and vibration monitoring was found. Contractor will ensure that the construction works carried out must comply with the condition stated in the Noise Control Ordinance and to implement mitigation measures proposed in the Project Implementation Schedule.	
COM-2022-01-02	Near Sheung Yue River (ND/2019/02)	28 th 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，產生很大的噪音及很多廢氣。理解工人有工作時，機械運作是正常，但一個月來工人沒工作時，機械依然運作，產生問題嚴重，要求部門跟進及處理。”	Investigation was conducted by contractor on 4 Feb 2022. All plants are turned off when awaiting more than 3 min. Dark smoke monitoring for the powered mechanical equipment had been carried out. No dark smoke was recorded. Based on the findings of investigation, no exceedance of noise and air monitoring was found. Follow-up Actions had been conducted on 4 Feb 2022. Mitigation measures are implemented. Dull green barriers are installed around active works areas to prevent dust emitted to the public. QPME is used to minimize noise nuisance to the neighbourhood. Specific environmental training about Noise and Smoke Control for Plants was provided to frontline staff on 4 Feb 2022. The frontline staff was reminded to switch off idling equipment for	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				preventing recurrence of idling construction equipment awaiting on site, and carry out routine maintenance of plant and equipment for mitigating unwanted noise and air pollutant emissions.	
COM-2022-02-01	Ng Tung River (ND/2019/04)	17 th February 2022	<p>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.</p> <p>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」</p> <p>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。」</p>	<p>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.</p> <p>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.</p> <p>In addition, it is reported that suspected contaminated water was discharging to Ma Wat River from surrounding industrial buildings near C5 contract site.</p> <p>Based on the findings of investigation, no foam</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				has been used by on site and no suspected contaminated water was discharged from the project. Thus, the complaint cases are not caused by our project.	
COM-2022-03-01	Near Ho Sheung Heung (ND/2019/02)	2 nd 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"	<p>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.</p> <p>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.</p>	Closed
COM-2022-03-02	Near Ho Sheung Heung (ND/2019/02)	23 rd March 2022	A complaint was received from EPD on 22 Mar 2022 from a public member regarding "河鄉近洪聖爺廟"	Joint inspection for the issue was conducted by AECOM, Environmental team, Independent Environmental Checker and Contractor on 25 March 2022. There was no major works. The area	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			<p>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 "</p>	<p>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 Portion 11. 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.</p> <p>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.</p> <p>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.</p> <p>Based on the findings of investigation, all plants</p>	

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)	5 th 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。”	<p>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。”</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				COD of wastewater sampling at wastewater treatment plant monthly.	
COM-2022-06-28	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5 th 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機並無異常，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)	5 th 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有，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)	21 st 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有人工作。故亦不一需要長時間開發發電機，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"	<p>alternatively (one is solely for standby purpose) for power supply of site works and containers.</p> <p>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).</p> <p>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.</p> <p>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).</p> <p>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</p> <p>For odour mitigation measures, on top of currently</p>	

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)	27 th 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”	<p>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.</p> <p>EPD carried out complaint investigation at Portion 1b / 1c on 26 July 2022 at 11:00, no adverse comment was given.</p> <p>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.</p> <p>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.</p>	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)	29 th July 2022	<p>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.</p> <p>Based on peripheral inspection, the muddy water was spotted.</p>	<p>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.</p> <p>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.</p> <p>Meanwhile, below are some JV's regular preventive measures for water pollution control:</p> <ol style="list-style-type: none"> 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)	8 th August 2022	<p>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.</p> <p>The complaint content: "近電燈柱</p>	<p>Noise</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			EB1339 沿麻笏河一帶，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。"	<p>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.</p> <p>Air</p> <p>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.</p> <p>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.</p>	
COM-2022-08-16a	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	16 th 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
			<p>August 2022. EPD forwarded the case to ET through email on 17 August 2022.</p> <p>The complaint content: " 本人留意到近麻笏村的麻笏河有大量水泥流入河，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 and 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。"</p>	<p>investigation are focusing on these two works area locations.</p> <ol style="list-style-type: none"> 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
				<p>submitted to EPD.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
COM-2022-08-16b	Ma Sik Road and Sha Tau Kok Road near Lung Yeuk Tau (ND/2019/04)	16 th 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	<p>Investigation was conducted by contractor and reply as follow:</p> <p>"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</p>	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 mess 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)	1 st 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
				<p>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.”</p> <p>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.</p>	
COM-2022-09-29	Construction site nearby Dills Corner Garden Blk 5 (ND/2019/02)	29 th 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！”	<p>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.</p> <p>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</p>	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)	7 th October 2022	Complaint received by EPD on 6 Oct 2022 and forwarded to ET on 7 Oct 2022. “近電燈柱 EB1339 近麻笏河，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、麻笏村、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)	17 th 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	28 th 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)	31 st 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)	10 th 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."	<p>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.</p> <p>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.</p>	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)	7 th December 2022	<p>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？”</p> <p>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芴河流中，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。</p> <p>高空掉建築物很危險”</p>	<p>The investigation results are as follows:</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. <p>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.</p>	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)	12 th 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. <u>From Contract Number (ND/2019/01):</u> 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

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				<p>accumulated mud and cause the wastewater become turbid / muddy.</p> <p>9. Visual comparison was conducted with ET on 17 January 2023, the colour of the glass bottle collected from wastewater treatment plant looks clear when compare with the standard solution.</p> <p>10. During the ad-hoc inspection on 27 January 2023, inadequate treated wastewater discharge from nearby private construction site was observed.</p> <p>Mitigation Measures and Follow-Up Actions:</p> <ol style="list-style-type: none"> 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. <p><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</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>complaint location.</p> <p>1. Joint inspection for the issue was conducted by EPD and DSD on 11 January 2023.</p> <p>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.</p> <p>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 workforce with potential risk of polluted runoff has been installed sheet pile and canvas was provided to intercept runoff due to rainwater.</p> <p>4. Checking and maintenance of wastewater treatment facilities have been carried out by supplier before the joint inspection by EPD and DSD.</p> <p>5. Training on proper wastewater treatment and discharge has been provided for site staff to raise the awareness of site staff at all levels.</p> <p>Conclusion: Based on the findings of investigation, CW-KL</p>	

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)	3 rd 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.	<p>The investigation result as follows:</p> <p>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.</p> <ol style="list-style-type: none"> 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

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				<p>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.</p> <p>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.</p>	

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COM-2023-02-08	Construction site near Dills Corner Garden (ND/2019/01)	8 th 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

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COM-2023-04-03a	The Soil Stockpiling area at Kwu Tung near L/P: GD5847 (ND/2019/05)	3 rd 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	<p>The investigation result as follows:</p> <ol style="list-style-type: none"> 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, <ul style="list-style-type: none"> (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 <p>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.</p>	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		

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COM-2023-08-09	Construction site next to Tong Hang near L/P No. VD6513 (ND/2019/05)	9 th August 2023	EPD received a complaint with ref.: N07/RN/00018620-23 on 4 Aug 2023. Complaint detail: "本人於今個星期日(30.07.2023), 再次行經粉嶺龍山近塘坑村附近, 近電燈柱 VD6513 附近, 發覺強烈油積味, 相信有機器流油, 同時亦發覺油積連水流至行人路, 使路濕滑, 一部份油流入河流"	<p>The investigation result as follows:</p> <p>1. Site activities at Piers C4-03 The works area vicinity to lamp post VD6513 is Piers C4-03. Superstructure works for viaduct construction were conducted above the concerned lamp post. It was precast segment erection works (only involve lifting, transporting and tendonning) and no operation of heavy machinery/plants was conducted at ground level during the complaint period. No wastewater/chemicals were generated in the surrounding works.</p> <p>2. Preventive measures for wastewater or chemical leakage/overflowing; There were plenty of preventive measures for wastewater or chemical leakage/overflowing from site listing as below:</p> <ul style="list-style-type: none"> - All ground area were totally hard paved - Edges of all site boundaries were entirely enclosed and embanked - All openings of segment structures were fully closed - Chemical waste storage cabinet was provided in the concerned area for storage of chemical waste <p>Based on the above findings, it is concluded that the complaint was not related to the Contract. JV will continue daily monitoring on our site condition and the nearby drainage and river condition to prevent any water pollution. In addition, JV will regularly conduct morning briefing</p>	Closed

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				and tool-box training to the frontline for keeping refresh their awareness on water pollution control.	
COM-2023-08-25	Ma Tso Lung Stream, near L/P No. VD7574 (ND/2019/01)	25 th August 2023	<p>EPD received a complaint with ref.: N07/RN/00020185-23 on 22 Aug 2023. Complaint detail: "I am writing to express my deep concerns about the water pollution in Ma Tso Lung Stream, which is a result of the illegal dumping of construction waste.</p> <p>Following heavy rain, the Advance Site Formation and Engineering Infrastructure Works at Kwu Tung North and Fanling North New Development Areas have significantly impacted the upstream of the Ma Tso Lung Stream, specifically at the location marked by government lamppost VD7574. For further clarity on the location, you can refer to: (https://www.landsd.gov.hk/doc/en/nda/ktnda/D_KTN_1A_BW_SD_compress_1.pdf)</p> <p>Due to the vast amounts of construction waste, the stream's drainage has been severely obstructed. This was particularly evident after last week's Special Announcement on Flooding in the Northern New Territories. The</p>	<p>The investigation result as follows:</p> <ul style="list-style-type: none"> - The suspected complaint location was found at Ma Tso Lung Stream, about 200 meters outside the site boundary of Kwu Tung North New Development Area. - BKREJV carried out investigation accompanied by AECOM RSS on 31 August 2023, no construction activity was observed nearby. - During the investigation, no illegal dumping was identified upstream. The water of the stream looks clear, therefore, pollution downstream (complaint location) generated from the project is unlikely. The C&D material on the stream believed accumulated by nature. - No accumulation of C&D waste along the upstream of Ma Tso Lung Stream was observed during the investigation. The stream is free from blockage. - By comparing the photos from complainant provided and the photos taken on 31 August 2023, there are no major differences observed. - As the mentioned location which is outside the site 	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			<p>stream's blockage from the waste has prevented efficient water drainage, posing a serious threat to the lives of the residents living by its banks.</p> <p>It's noteworthy that the KWU TUNG NORTH OUTLINE DEVELOPMENT PLAN No. D/KTN/1 (https://www.pland.gov.hk/pland_en/info_serv/tp_plan/adopted/ES/D_KTN_1_en.pdf) had previously emphasized the importance of the Ma Tso Lung Stream. It serves as a crucial corridor for numerous fauna of conservation importance, including the Three-banded Box Terrapin. The stream, along with its surrounding riparian vegetation, has been designated under the "Green Belt" zoning for protection in the Outline Development Plan (ODP). The recent infrastructural developments have gravely affected this ecosystem and the habitat of the rare Three-banded Box Terrapin.</p> <p>In addition to the aforementioned concerns, the engineering works have significantly reduced surface water flow. As a result, the Ma Tso Lung Stream faces not only pollution but also the alarming threat of becoming a dry streambed. This drastically impacts the ecological balance and endangers the</p>	<p>boundary, no follow up action is proposed.</p> <p>Based on the above findings, it is concluded that the accumulated C&D material on the stream likely accumulated by nature instead of illegal dumping by project. It is concluded that the complaint is not project related.</p> <p>However, BKREJV are responsible to monitor the condition alongside the boundary of construction site regularly.</p>	

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			<p>myriad of biodiversity dependent on this vital water source.</p> <p>...</p> <p>Enclosed are comparative photos from July to August 2022 juxtaposed with the current state in August 2023, capturing the stark degradation of the stream over a year."</p>		
COM-2023-09-04	Construction site near the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	4 th September 2023, 7 th September 2023	<p>EPD received a complaint with ref: N07/RN/00021148-23 on 4 Sep 2023.</p> <p>Complaint detail: “沙頭角公路與馬適路交界的地盤排放泥水到附近河道造成污染”</p> <p>Supplementary detail received by EPD with the same ref on 7 Sep 2023.</p> <p>Complaint detail: “在 7/9/2023 下午,該地盤再次排出大量黃泥水”</p>	<p>The investigation result as follows:</p> <p>For the complaint received on 4 September 2023, the cause of the silty water entering Ma Wat River was mainly due to the malfunctioning of wetsep, which was damaged due to electric short during the adverse weather, no.1, no.3, no.8, no.9 and no.10 and 5 hours of amber warning signal, caused by Super typhoon Saola on 1 and 2 September 2023. The wetsep was repaired immediately after Saola left and resumed the function on 4 September 2023 afternoon and no more silty water was observed entering Ma Wat River. The water quality observed on 5 September 2023 was normal and complied with the legal requirement of discharge licence.</p> <p>For 7 September 2023, the major cause of the incident was the accumulated soil at the existing outfall overflow to the river due to the continuous rainy weather, which was not discharge from the construction site.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-09-13	Open water channel within the project site of KTN NDA phase 1 (ND/2019/01)	4 th September 2023, 21 st September 2023	<p>EPD spotted overflow of muddy water from an open water channel within the project site of ND/2019/01 to the nearby nullah at the site boundary which would eventually discharge into Sheung Yue River.</p> <p>During the EPD follow-up site inspection on 13 Sep 2023, similar overflow of muddy water still observed. On 21 Sep 2023, a joint site inspection was held.</p>	<p>The investigation result as follows:</p> <p>According to the record of Hong Kong Observatory, Super Typhoon SAOLA signal 10 was hoisted from 1 September 2023 to 2 September 2023. Amber Rainstorm Warning Signal was recorded from 19:45 of 1 September 2023 to 01:00 of 2 September 2023. Special Announcement on Flooding in the Northern New Territories was hoisted from 22:05 of 1 September 2023 to 04:30 of 2 September 2023 and the total rainfall from 1 to 2 September 2023 is nearly 180mm.</p> <p>It was observed that the capacity of the existing 2 no. of wastewater treatment system (AquaSed) provided for the treatment of the permanent rectangular channel (RC3) was insufficient.</p> <p>The permanent rectangular channel (RC3) which has been serving as temporary buffer zone for temporary storage of collected surface runoff which included wastewater generated from other interfacing contractors.</p> <p>It was observed that muddy water overflowed from the outlet of RC3 to the concerned discharge point.</p> <p>It was noted that various nearby interfacing contractors discharged their construction wastewater to the same concerned discharge point via RC3.</p> <p>Traces of muddy site runoff and yellowish sediments</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>were spotted on the bare surface outside RC3. Traces of yellowish sediment was observed in water channel out of the project site just next to RC2. The capacity of pumping system at RC2 seems insufficient. The storage pond capacity at Northern Portion seems inadequate to collect surface runoff generated from stockpiles area. The U-channel near Ma Tso Lung Road was filled with soil thus reduce the design capacity of water collection.</p> <p>Follow-up actions:</p> <ul style="list-style-type: none"> - One additional water pump (increased from 2 to 3 in total) was deployed at RC3 and one water pump (increased from 1 to 2 in total) was deployed at RC2 respectively. - The open stockpile at northern portion was properly treated by hydroseeding. - Enlarge the depth of sump pit at Northern Portion from 1m to 2m. Storage pond was properly maintained by desilting regularly. - The blocked U-channel and cut-off drain near Ma Tso Lung Road was desilted generation of muddy surface runoff. - Sand bag bund with geotextile was placed properly and the bottom of the hoarding was sealed along the site boundary near Ma Tso Lung Road to prevent muddy water washed out to the 	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>lower elevated of the site to public areas</p> <ul style="list-style-type: none"> - Regularly desilting of rectangular channel (RC2 and RC3 to maintain the capacity. - Demarcate the discharge pipes by labelling which belongs to BKREJV. - Temporary drainage management plan at portion 1c was enclosed for reference. 	
COM-2023-11-08A	Construction site near Tong Hang (ND/2019/05)	8 th November 2023	<p>EPD received a complaint with ref: N07/RN/00026110-23 on 2 Nov 2023.</p> <p>Complaint detail: “投訴人於 2023/11/01 23:18:56 留言投訴粉嶺塘坑村對出的地盤最近晚上均會搬運大型物料入地盤，但搬運過程發出巨大噪音，要求環保署跟進。因投訴人沒有留聯絡資料，CSC 未能了解更多詳情。”</p>	<p>The investigation result as follows:</p> <p>The location of the complaint likely to be the storage yard which is being used partly by a business operator (CTC-container storage) and segment storage for this contract. According to our Permit-to-Work (PTW) application records, there was no physical works scheduled at the storage yard during the complaint period.</p> <p>Based on the above findings, it is concluded that the complaint was not related to the works.</p> <p>In case of works during restricted hours, the contractor will apply a Construction Noise Permit, works during restricted hours will only be carried out when a valid CNP is in force.</p> <p>In order to minimise the noise impact to the noise sensitive receiver, temporary noise barrier was erected along hoarding facing the noise sensitive receiver. The</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				installation of temporary noise barrier was completed on 13 November 2023.	
COM-2023-11-08B	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	8 th November 2023	EPD received a complaint with ref: N07/RN/00025564-23 on 26 Oct 2023. Complaint detail: “本人再次見到粉嶺馬適路-沙頭角公路地盤晚上 9 點後仍然工作 地盤內有工程車和多名工人鋪木地板, 其間有人多次使用切割機鋸斷木板, 造成巨大噪音, 而自過往多月本人多次投訴後, 該地盤仍然沒有任何改善”	The investigation results are as follows: Having reviewed on internal record and permit-to-work system, no work activities were scheduled and taken beyond 7 pm from 11 September to 31 October 2023. The supplementary information including statements from relevant representatives, the foreman in charge of the concerned area, representative of the sub-contractor from Hung Wing Steel Engineering Limited conducting construction works of CLC; the site diaries recorded the scheduled works and working period during weekdays within the aforesaid period; The work permits issued within the aforesaid period; and the valid CNP. The Contractor claimed that they had a comprehensive noise control system for environmental protection in place which has been effective so far. The works in restricted hours are well organized and under control with the work permit system. Adequate mitigation measures are also provided for any work in restricted hours. In conclusion, according to the above, all scheduled works were completed by 19:00 from 11 September to 31 October 2023 according to their records. All major works were substantially completed before the soft opening of the Community Liaison Centre on 26	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				October 2023, except the remaining construction of the fire service tank and the associated water pipes and fittings installation are in progress during normal working hours, for example, no activities during restricted hours, to be completed before FSI inspection tentatively scheduled on 20 December 2023. No potential noise impact during restricted hours would occur.	
COM-2024-01-05A	Construction site near On Lok Garden (ND/2019/05)	5 th January 2024	EPD received a complaint with ref: N07/RN/00000530-24 on 5 Jan 2024. Complaint detail: “投訴人指粉嶺安樂花園附近 AECOM 地盤, 在 12 月 31 日公眾假期開工, 她去地盤問, 不見有許可證貼出, 她問職員, 職員再問主管, 但仍未能出示許可證, 而下星期日又開工, 現要求環保署跟進及回覆及查証是否真有許可證. ”	The investigation result as follows: Referring to the Permit-to-Work (PTW) records, JV has issued a permit-to-work ref. PTW-20231201-1 V0, see Appendix I, to their frontline to work in accordance with a valid CNP ref. GW-RN0977-23 Zones XIV-XV for lifting works on 31 Dec 2023. Copies of the CNP have been displayed at site entrances to the public and there is one near On Lok Garden since it is with effect from 1 Oct 2023. For every new CNP copy display, JV will inform all workers through WhatsApp by photos and specific training/morning briefing. JV has also been presenting the licence boxes location which contains CNP copies at every monthly Site Environmental Committee (SEC) meeting. JV had a joint inspection with EPD inspectors on 10 Jan 2024, found that JV was displaying valid and relevant CNPs hardcopy and softcopy by QR code at site entrances. The worker stationing at the site entrance nearest On Lok Garden could tell the CNP	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				display location also. EPD had no adverse comment to JV.	
COM-2024-01-05B	Construction site near One Innovale and Power Substation at Ma Sik Road (ND/2019/04)	5 th January 2024	EPD received a complaint with ref: N07/RN/459-24 on 5 Jan 2024. Complaint detail: “投訴 One Innovale 旁邊電力公司由 12 月 20 日起除公眾假期外每日由早上 8 時到傍晚 6 時發出高頻噪音，十分滋擾，要求環保署盡快跟進及回覆。”	<p>The investigation result as follows:</p> <p>The high frequency sound should be the warning signal from the safety sensor installed on the moving plants recently, for alerting the workers and operators of the plants aware of their surroundings to avoid any accident, starting from 18 December 2023. This safety measure is implemented due to the recent fatal accident happened in other construction site.</p> <p>The sensor would only be triggered when objects are detected within the detection zone and high frequency warning signal would be generated to alert the workers and operators that someone or something has been entered the moving zone.</p> <p>The sensors are only turned on during the operation of the plants and turned off after the working hours. The foreman would check the status of the sensors to ensure they are turned off to avoid false alarm out of working hours.</p> <p>The area if planned to be a danger zone would be cleared as much as possible without objects or materials, only essential manpower is allowed to enter the danger to assist the operation of excavation works and lifting works. The other workers are not allowed to</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				enter the danger zone at any circumstance. Notices has been sent to residents, including Green Code, Belair Monte, One Innovale and the Lung Yeuk Tau Representative, explaining the purpose of installing the safety sensor and the necessity of the warning signal to the workers on site.	

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/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	1	23-Mar-20	C1-DP7						
DP10	EP-473/2013/A	Fanling Bypass Eastern Section	1	6-Oct-20 (for C3) 23-Feb-21 (for C4) 1-Aug-20 (for C5)			C3-DP10	C4-DP10	C5-DP10		
DP12	EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area	1	29-Oct-19						C6-DP12	
DP14	EP-546/2017	Fanling North Temporary Sewage Pumping Station	1	16-Feb-21				C4-DP14			

DP2	EP-466/2013/A	Castle Peak Road Diversion				
Construction commencement date		12 August 2020				
Operation commencement date		tbc				
EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction.	Notified 2 March 2020	
2.1	Establish of ET	Before construction	Establish - An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction .	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	Deposit	at least 4 weeks before the commencement of construction.	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	Inform in writing	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	
2.5	Layout Plan	Before construction	Deposit	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	EPD Approved 25 August 2020
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	To Conduct - A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer. <u>Note:</u> The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3.	prior to the commencement of construction.	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 Approval - 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.	Resubmitted to EPD 14 July 2023	
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 construction	Deposited 31 July 2019	EPD Approved 9 August 2019
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records	Others	Deposit - A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical lanscape features at Locatoins KT38, KT44 and KT52.	prior to the commencement of the respective removal or relocation works	Deposited 10 Feb 2021	No relocation is required
2.8	Landscape Plan	Others	Deposit	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project	Deposited 19 December 2022	Resubmitted to EPD 14 July 2023
3.3	Baseline Monitoring Report	Before construction	Submit	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	Submit	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	Set up and Notify in writing -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	Upload -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP4	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5				
Construction commencement date		1 June 2020				
Operation commencement date		tbc				
EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 2 March 2020	
2.1	Establish of ET	Before construction	Establish - An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	Deposit	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	Inform in writing	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	Deposit	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	To Conduct - A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer <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 Approval - 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/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works				
Construction commencement date		23 March 2020				
Operation commencement date		tbc				
EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notify 22 January 2020	
2.1	Establish of ET	Before construction	Establish - An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	Deposit	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	Inform in writing	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	Deposit	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
3.3	Baseline Monitoring Report	Before construction	Submit	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	Submit	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	Set up and Notify in writing -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	Upload -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
 DP: Designated Project
 *tentative submission date will be supplemented once available

DP10	EP-473/2013/A	Fanling Bypass Eastern Section				
Construction commencement date		1 August 2020				
Operation commencement date		tbc				
EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 8 September 2020	
2.1	Establish of ET	Before construction	Establish - An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	Deposit	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	Inform in writing	no later than 2 weeks before the commencement of construction	Deposited 17 March 2021	
2.5	Location Plans	Before construction	Deposit	no later than 2 weeks before the commencement of construction	Deposited 10 December 2020	
2.6	Relocation Plan for Rose Bitterling	Before construction	Approval	before the commencement of construction	N/A	
2.7	Egrettry 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 Approval - 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	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

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	