

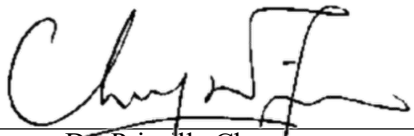
# Civil Engineering and Development Department

**Service Contract No. WD/04/2020  
Development of Lok Ma Chau Loop:  
Main Works Package 1 –  
Environmental Team**

**Environmental Permit No.:  
EP-477/2013/B  
- Development of Lok Ma Chau Loop**

**Monthly Environmental Monitoring and  
Audit Report for September 2024**

**(Version 1.0)**

Certified By   
Dr. Priscilla Choy  
(Environmental Team Leader)

REMARKS:

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

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

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Our ref.: LES/J2021-04/CS/L194  
Date : 17 October 2024

**By Post & Email**

Civil Engineering and Development Department  
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**Attn: Mr. YIU Wai Kei, Ricky**

Dear Mr. Yiu,

**Agreement No. WD/01/2020  
Development of Lok Ma Chau Loop: Main Works Package 1 – Independent  
Environmental Checker**

**Verification of Monthly EM&A Report (September 2024)**

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report of certified by the Environmental Team Leader in October 2024. We hereby verify the captioned submission in accordance with Clause 3.4 of the Environmental Permit No. EP-477/2013/B for the project of Development of Lok Ma Chau Loop.

Should you have any query, please feel free to contact the undersigned.

Yours faithfully,  
For and On Behalf Of  
**Lam Environmental Services Limited**

Raymond Dai  
Independent Environmental Checker

c.c. AECOM  
Wellab Limited

Mr. Eric Wong  
Dr. Priscilla Choy

By Email  
By Email

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## EXECUTIVE SUMMARY

### Introduction

1. This is the 69<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report prepared for Environmental Permit No.: EP-477/2013/B - Development of Lok Ma Chau Loop (hereinafter called “the Project”). This report documents the findings of Environmental Monitoring and Audit (EM&A) works conducted in the period from 1<sup>st</sup> to 30<sup>th</sup> September 2024 (hereinafter called “the reporting month”).
2. During the reporting month, the following Works Contracts were undertaken for the Project:
  - Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (hereinafter called the “Contract 1”)
  - Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (hereinafter called the “Contract 2”)
  - Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 (hereinafter called the “Contract 3”)

### Environmental Monitoring and Audit Activities

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

**Table I Summary Table for EM&A Activities in the Reporting Month**

| Environmental Aspect |                        | Monitoring Parameter  | Date  |
|----------------------|------------------------|---|---|
| Air Quality          |                        | 1-hr Total Suspended Particulates (TSP) Monitoring  | 5 <sup>th</sup> , 11 <sup>th</sup> , 17 <sup>th</sup> , 23 <sup>rd</sup> and 27 <sup>th</sup> September 2024  |
|                      |                        | 24-hr TSP Monitoring  | 4 <sup>th</sup> , 10 <sup>th</sup> , 16 <sup>th</sup> , 20 <sup>th</sup> and 26 <sup>th</sup> September 2024  |
| Construction Noise   |                        | Leq <sub>30mins</sub>   | 5 <sup>th</sup> , 11 <sup>th</sup> , 17 <sup>th</sup> and 23 <sup>rd</sup> September 2024   |
| Water Quality        |                        | <ul style="list-style-type: none"> <li>• Temperature</li> <li>• pH</li> <li>• Turbidity</li> <li>• Water depth</li> <li>• Salinity</li> <li>• Dissolved Oxygen (DO)</li> <li>• Suspended Solids (SS)</li> </ul> | 2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> , 9 <sup>th</sup> , 11 <sup>th</sup> , 13 <sup>th</sup> , 17 <sup>th</sup> , 19 <sup>th</sup> , 21 <sup>st</sup> , 23 <sup>rd</sup> , 25 <sup>th</sup> , 27 <sup>th</sup> and 30 <sup>th</sup> September 2024 |
| Ecological           | Lok Ma Chau (LMC) Loop | Avifauna flight line survey   | 20 <sup>th</sup> September 2024   |
|                      |                        | Mammal monitoring (by infra-red flash cameras)  | Temporary suspended as the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier (i.e. emergency hospital)   |

| Environmental Aspect     |   | Monitoring Parameter   | Date   |
|--------------------------|---|--|--|
| Ecological               | Western Connection Road (WCR)                           | Avifauna flight line survey  | 20 <sup>th</sup> September 2024  |
|                          |   | Avifauna survey at Pond 12   | 2 <sup>nd</sup> , 9 <sup>th</sup> , 16 <sup>th</sup> and 23 <sup>rd</sup> September 2024   |
|                          |   | Herpetofauna survey  | 3 <sup>rd</sup> September 2024   |
|                          |   | Aquatic Fauna survey   | 6 <sup>th</sup> September 2024   |
|                          |   | Water Quality Monitoring for Aquatic Fauna   | <u>LMC Meander</u><br>2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> , 9 <sup>th</sup> , 11 <sup>th</sup> , 13 <sup>th</sup> , 17 <sup>th</sup> , 19 <sup>th</sup> , 21 <sup>st</sup> , 23 <sup>rd</sup> , 25 <sup>th</sup> , 27 <sup>th</sup> and 30 <sup>th</sup> September 2024<br><u>Stream and associated ponds south of Lung Hau Road</u><br>6 <sup>th</sup> , 9 <sup>th</sup> , 19 <sup>th</sup> and 25 <sup>th</sup> September 2024 |
| Site Environmental Audit | Environmental protection and pollution control measures | <u>Contract 1</u><br>4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024<br><u>Contract 2</u><br>4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024<br><u>Contract 3</u><br>2 <sup>nd</sup> , 9 <sup>th</sup> , 16 <sup>th</sup> , 23 <sup>rd</sup> and 30 <sup>th</sup> September 2024 |  |

#### Breaches of Action and Limit Levels

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

**Table II Summary Table for Environmental Exceedances in the Reporting Month**

| Environmental Monitoring | Parameter                    | Action Level | Limit Level | Event & Action       |  |                   |
|--------------------------|------------------------------|--------------|-------------|----------------------|--|-------------------|
|                          |                              |              |             | Investigation Result | No. of Exceedance related to the Construction Works of the Project | Corrective Action |
| Air Quality              | 1-hr TSP                     | 0            | 0           | --                   | 0  | --                |
|                          | 24-hr TSP                    | 0            | 0           | --                   | 0  | --                |
| Construction Noise       | <u>Daytime</u><br>Leq(30min) | 0            | 0           | --                   | 0  | --                |
| Water Quality            | DO                           | 0            | 0           | --                   | 0  | --                |
|                          | Turbidity                    | 0            | 0           | --                   | 0  | --                |
|                          | SS                           | 0            | 0           | --                   | 0  | --                |

1-hour TSP Monitoring

5. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

7. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Water Quality

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

Ecological MonitoringLMC Loop*Avifauna (Flight Line Survey)*

9. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds prefer using the flight line corridor above the LMC Meander and EA Zone.

*Mammals*

10. According the Clause 11.4.1.2 of EM&A Manual, the objective of mammals monitoring is to monitor the connectivity between the reed marsh in the LMC Loop and the EA Zone. In view of current site condition of Loop, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier.
11. In addition, the 12-month establishment period of EA zone has also been completed. The mammals monitoring in the Loop has therefore been temporarily suspended since March 2022 and will be resumed subject to the site condition.

*Western Connection Road**Avifauna (Flight Line Survey)*

12. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds prefer using the flight line corridor above the LMC Meander and EA Zone.

*Avifauna (Pond 12)*

13. Avifauna survey at Pond 12 was conducted as scheduled in the reporting month. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

*Herpetofauna*

14. Herpetofauna survey was conducted as scheduled in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. However, no significant impact of construction activities on this species was observed.

*Aquatic fauna*

15. Aquatic fauna survey was conducted as scheduled in the reporting month. No significant impact of construction activities on the stream was observed.

**Land Contamination**

16. Decontamination for five arsenic-contaminated zones (LD01 - LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the Environmental Permit under Contract No. YL/2017/03.
17. No work related to land contamination was conducted in the reporting month.

**Site Environmental Audit**

18. In the reporting month, weekly joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the Consultants, Independent Environmental Checker (IEC), Environmental Team (ET) and the Contractors. The date(s) of the weekly site environmental audit conducted under the Project are summarized in **Table III**.
19. No non-compliance was recorded during the site inspections.

**Table III Summary Table for Site Environmental Audit in the Reporting Month**

| <b>Contract(s)</b>  | <b>Date(s) of Site Environmental Audit</b>  |
|---|---|
| Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1          | 4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024                   |
| Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 | 4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024                   |
| Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2  | 2 <sup>nd</sup> , 9 <sup>th</sup> , 16 <sup>th</sup> , 23 <sup>rd</sup> and 30 <sup>th</sup> September 2024 |

**Complaint Log**

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

**Notification of Summons and Successful Prosecutions**

21. No notification of summons or successful prosecution was received in the reporting month.

**Reporting Change**

22. This report has been prepared in compliance with the reporting requirements for the subsequent monthly EM&A Report as required by the EM&A Manual for Development of Lok Ma Chau Loop (EM&A Manual). No reporting change was made in the reporting month.

**Future Key Issues**

23. Major site activities for the coming reporting months will include:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) WCR for 5 & 7 (Area 1), retaining Wall, slope Work, drainage
- (b) Meander Bridge South and Middle Spans Construction
- (c) Road L1 Drainage and UU enabling works
- (d) HWT Pai Lau Finishing Works
- (e) Box Culvert A1 Outfall Portion Construction
- (f) Wetland Fence Construction
- (g) PT1 drainage works

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Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

- (a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A

DRL:

- (a) Temporary works.
- (b) Bored Pile works.
- (c) Sheet piling works.
- (d) ELS works.
- (e) Segment precast.
- (f) Pier construction.
- (g) Construction of pile cap.
- (h) Pre-drill works.
- (i) Construction of Base Slab.
- (j) Pierhead segment erection.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.
- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) Underground utilities works.
- (i) Construction of noise barrier.
- (j) Construction of box culvert.
- (k) Construction of retaining wall.
- (l) Construction of concrete structure.
- (m) Carpark traffic diversion works.

Fanling Highway:

- (a) Construction of retaining wall.
- (b) Pier construction.
- (c) Installation of pierhead segment.



- (d) Backfilling works for retaining wall.
- (e) Sheet-piling works for retaining wall.
- (f) Full span erection.
- (g) Fabrication of precast segment.
- (h) Installation of parapet at retaining wall.
- (i) Construction of subway.

Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

- (a) LMC Station Structural Steel Materials Delivery
- (b) LMC Station Strengthening Works
- (c) ELS Works and Pile Caps & Tie Beam Construction at Elevated PTI and Double deck Footbridge
- (d) Elevated PTI Superstructure Construction

## 1 INTRODUCTION

- 1.1 Wellab Limited (WELLAB) was appointed by the Civil Engineering and Development Department (CEDD) under Service Contract No. WD/04/2020 as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) programme for the Works Contracts under Main Works Package 1 and the remaining works under Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permit (EP), Environmental Monitoring & Audit (EM&A) Manual, Environmental Impact Assessment (EIA) Report of the Project and other relevant statutory requirements.

### **Purpose of the report**

- 1.2 This is the 69<sup>th</sup> EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in the period from 1<sup>st</sup> to 30<sup>th</sup> September 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, monitoring results and Event / Action Plans.

Section 6: **Ecological Monitoring** - summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations and monitoring results.

Section 7 **Land Contamination** - summarises the remediation works progress for contamination soil and relevant submission.

Section 8 **Waste Management** – summarises the implementation status of waste management.

Section 9: **Environmental Site Inspection** - summarises the audit findings of the

weekly site inspections undertaken within the reporting month.

Section 10: **Implementation Status of Environmental Mitigation Measures** - summarises the compliance status of environmental mitigation measures.

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 and monitoring schedule for the next three months.

Section 13: **Conclusions and Recommendations**

## 2 PROJECT INFORMATION

### Background

- 2.1 The development at Lok Man Chau (LMC) Loop is one of the ten major infrastructure projects for economic growth of the Hong Kong Special Administrative Region (HKSAR). The HKSAR Government would work with the Shenzhen authorities to tap the land resources of the LMC Loop to meet future development needs and consolidate the strategic position of both cities in the Pan-Pearl River Delta region. The Project is to develop LMC Loop with higher education as the leading land use, complemented by high-tech research and development facilities and cultural and creative industries.
- 2.2 The planning and engineering study for the Loop development is a designated project (DP) classified under Item 1 Schedule 3 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-176/2013) of the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance in accordance with the EIA Study Brief (No. ESB-201/2008 and ESB-238/2011) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The Environmental Permit (EP) (EP no.: EP-477/2013) was also granted in November 2013.
- 2.3 Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-477/2013) based on the Application No. VEP- 595/2021 and the environmental Permit (Permit No. EP-477/2013/A) was issued on 12<sup>th</sup> August 2021 for Development of Lok Ma Chau Loop. In December 2023, the Director of Environmental Protection further amends the Environmental Permit (No. EP-477/2013/A) based on the Application No. VEP-629/2023 and the latest Environmental Permit (No. EP-477/2013/B) was issued on 29<sup>th</sup> December 2023 for Development of Lok Ma Chau Loop.
- 2.4 The Loop development is implemented by three works packages in stages, namely: Advance Works, Main Works Package 1 (MWP1) and Main Works Package 2 (MWP2).
- 2.5 Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works (hereinafter called the “Contract”) was awarded to Sang Hing – Kuly Joint Venture (hereinafter called the “Contractor 1”) in June 2018 for the Advance Works. All construction works of Contract No. YL/2017/03 have been completed and the works were successfully handed over to AFCD and DSD on 30<sup>th</sup> December 2021.
- 2.6 For MWP1, there will be a total of 5 Works Contracts and the contract packaging is shown below.
- 1) Contract 1 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1
  - 2) Contract 2 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1
  - 3) Contract 3 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 – Direct Road Link Phase 2
  - 4) Contract 4 - Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 4 – Fresh Water Service Reservoir and Associated Waterworks

- 5) Contract 5 - Development of Lok Ma Chau Loop: Main Works Package 1 –  
Contract 5 – Landscaping Works within Lok Ma Chau Loop

- 2.7 Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (hereinafter called the “Contract 1”) was awarded to CRCC-Kwan Lee-Paul Y. JV in July 2021.
- 2.8 Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (hereinafter called the “Contract 2”) was awarded to China Road and Bridge Corporation in September 2021.
- 2.9 Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 (hereinafter called the “Contract 3”) was awarded to Paul Y.-Chun Wo-CRCC JV in February 2022.
- 2.10 During the reporting month, the following Works Contracts were undertaken for the Project:
- Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (Contract 1)
  - Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (Contract 2)
  - Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 (Contract 3)
- 2.11 The layout of the construction works under the Project and the scope of works under the Project are summarized in **Table 2.1**.

**Table 2.1 Site Layout and Scope of Works under the Project**

| <b>Contract(s)</b>  | <b>Scope of Works</b>   | <b>Site Layout Plan</b> |
|---|---|-------------------------|
| Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works (Completed)   | <ul style="list-style-type: none"> <li>a) Land decontamination treatment within the Loop;</li> <li>b) Establishment of an Ecological Area (EA) within the Loop;</li> <li>c) Construction of a temporary access to the Loop;</li> <li>d) Minor improvement works to Ha Wan Tsuen East Road and other ancillary works;</li> <li>e) Construction of temporary noise barriers and miscellaneous road works along Lok Ma Chau Road;</li> <li>f) Ground treatment works to the first batch of land parcels within the Loop for development of buildings and associated facilities for Phase 1 of the Hong Kong – Shenzhen Innovation and Technology Park and development of the western electricity substation; and</li> <li>g) Implementation of environmental mitigation measures for the works mentioned in the items (a) to (f) above.</li> </ul> | Figure 1a               |
| Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1          | <ul style="list-style-type: none"> <li>a) Ground treatment and site formation works;</li> <li>b) Construction of carriageway, footpaths, cycle tracks and a public transport interchange within the Loop;</li> <li>c) Construction of Western Connection Road Phase 1 through widening of existing Ha Wan Tsuen East Road, which includes construction of footpath, cycle track, slopes, retaining walls and a vehicular bridge over the old Shenzhen River meander;</li> <li>d) Provision of other infrastructures, including a tertiary sewage treatment works and sewerage system, water supply system, drainage system, and other associated works; and</li> <li>e) Environmental mitigation measures including about 18 ha offsite wetland compensation and about 1.3 ha offsite woodland compensation.</li> </ul>                         | Figure 1b               |
| Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 | <ul style="list-style-type: none"> <li>a) Construction of Western Connection Road Phase 2 through widening of a section of existing Lok Ma Chau Road;</li> <li>b) Construction of Direct Road Link Phase 1 comprising a viaduct of about 720m long; construction of slip roads connecting Lok Ma Chau Road and Fanling Highway / San Tin Highway including a viaduct of about 340 m long;</li> <li>c) Construction of a cycle track cum footbridge;</li> <li>d) Construction of associated works including road improvement works, footpaths, cycle tracks, slopes, retaining walls, water supply system and drainage system; and</li> <li>e) Provision of noise barriers.</li> </ul>   | Figure 1b               |
| Contract No.: YL/2021/01 – Development of Lok   | <ul style="list-style-type: none"> <li>a) Construction of an elevated public transport interchange of an approximate area of 5,700 square metres above the existing Lok Ma Chau</li> </ul>  | Figure 1b               |

| Contract(s)  | Scope of Works  | Site Layout Plan |
|--|---|------------------|
| Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 | Spur Line Public Transport Interchange;<br>b) Construction of an approximately 90 metres long double-deck footbridge and a lift tower of approximately 21 metres in height with three lifts and three escalators connecting the elevated public transport interchange mentioned above to the MTR Lok Ma Chau Station;<br>c) Associated modification works within the MTR Lok Ma Chau Station; and<br>d) Associated roadworks, landscaping, electrical and mechanical works and ancillary works. |                  |

### Project Organisation

2.12 Different parties with different levels of involvement in the Project organization. The key personnel contact names and numbers are summarised in **Table 2.2**.

**Table 2.2 Key Contacts of the Project**

| Organization                             | Project Role      | Contact Person                           | Tel No.   | Fax No.   |
|--|-------------------|--|-----------|-----------|
| CEDD                                     | Project Proponent | Mr. YIU Wai Kei, Ricky                   | 2417 6370 | 2412 0358 |
| WELLAB                                   | ET                | Dr Priscilla Choy – ET Leader            | 2898 7388 | 2898 7076 |
| Lam Environmental Services Limited (LAM) | IEC               | Mr. Raymond Dai                          | 2839 5666 | 2882 3331 |
| <b>Contract No. YL/2020/01</b>           |                   |  |           |           |
| AECOM                                    | Consultants       | Mr. Eric Wong                            | 9861 8664 | TBA       |
| CRCC-Kwan Lee-Paul Y. JV                 | Contractor        | Site Agent – Mr. Sam Lee                 | 9284 1964 | 2774 0197 |
|  |                   | Senior Engineer – Mr. Max Mak            | 9263 1116 | 2774 0197 |
|  |                   | Senior Engineer – Mr. Stephen Leung      | 9770 6390 | 2774 0197 |
|  |                   | Environmental Officer – Mr. Kobe Lee     | 9603 9686 | 2774 0197 |
| <b>Contract No. YL/2020/02</b>           |                   |  |           |           |
| AECOM                                    | Consultants       | Mr. Eric Wong                            | 9861 8664 | TBA       |
| China Road and Bridge Corporation        | Contractor        | Site Agent – Mr. Roger Poon              | 9503 2488 | 3996 9202 |
|  |                   | Construction Team Leader – Mr. Angus Mok | 98389224  | 3996 9202 |
|  |                   | Environmental Officer – Ms. Celia Yung   | 9045 0322 | 3996 9202 |

| Organization                   | Project Role | Contact Person                       | Tel No.   | Fax No.   |
|--------------------------------|--------------|--------------------------------------|-----------|-----------|
| <b>Contract No. YL/2021/01</b> |              |                                      |           |           |
| AECOM                          | Consultants  | Mr. Eric Wong                        | 9861 8664 | TBA       |
| Paul Y.-Chun<br>Wo-CRCC JV     | Contractor   | Site Agent – Mr. Desmond Tang        | 5188 0815 | 3015 7861 |
|                                |              | Section Agent – Mr. Charles Choi     | 6350 0142 | 3015 7861 |
|                                |              | Environmental Officer – Mr. Tino Law | 6856 4150 | 3015 7861 |

### Construction Programme

2.13 Copies of contractors' construction programmes are provided in **Appendix A**.

### Summary of Construction Works Undertaken During Reporting Month

2.14 The major site activities undertaken in the reporting month included:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) North, Middle and South Span Bridge Deck Construction Work and North, middle, South Side Superstructure for Vehicular Bridge over the Old Shenzhen River Meander
- (b) Site formation & Road works and Utilities works for Community Isolation Facilities and Community Treatment Facilities
- (c) Excavation and Lateral Support (ELS) Cofferdam Construction for Box Culvert A & C
- (d) Excavation and Lateral Support (ELS) Construction and Underground Utilities (UU) installation, Drainage and sewerage works for Road L1
- (e) Drainage works, Footing construction, and Excavation and Lateral Support (ELS) Construction for Public Transport Interchange
- (f) Retaining Wall Works, Drainage Works, Watermain works and Roadworks for Western Connection Road

Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

- (a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A.



DRL:

- (a) Temporary works are in progress.
- (b) Bored Piling works are in progress.
- (c) Sheet piling is in progress.
- (d) ELS works are in progress.
- (e) Excavation is in progress.
- (f) ABWF works are in progress.
- (g) Pier construction.
- (h) Backfilling of piling platform is in progress.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.
- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) ABWF works are in progress.
- (i) Construction of box culvert.
- (j) Construction of retaining wall.
- (k) Pier construction.
- (l) Construction of Noise Barriers.
- (m) Traffic islands modification works are in progress.

Fanling Highway:

- (a) Installation of pierhead segment.
- (b) Sheet-piling works for retaining wall.
- (c) Backfilling works for retaining wall.
- (d) Bored Piling works are in progress.
- (e) Construction of subway.

Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

- (a) Underground Utility detection
- (b) Trial pit excavation
- (c) Material / Waste Lifting and Delivery
- (d) Utilities diversion

- (e) Erect external scaffold outside LMC Station
- (f) E&M
- (g) Double Deck Footbridge
- (h) Temporary Lighting system
- (i) Site Demarcation
- (j) ELS installation Works
- (k) Tie beam and pile cap construction
- (l) Column construction
- (m) Falsework at EPTI
- (n) EPTI RC deck construction

### Status of Environmental Licences, Notifications and Permits

2.15 A summary of the relevant permits, licences, and/or notifications on environmental protection for the Project is presented in **Table 2.3**.

**Table 2.3 Status of Environmental Licences, Notifications and Permits**

| Contract No.  | Permit / License No. | Valid Period |            | Status                         |
|---|----------------------|--------------|------------|--------------------------------|
|   |                      | From         | To         |                                |
| <b>Environmental Permit (EP)</b>  |                      |              |            |                                |
| Contract No. YL/2020/01<br>Contract No. YL/2020/02<br>Contract No. YL/2021/01 | EP-477/2013          | 22/11/2013   | 11/08/2021 | Replaced by EP-473/2013/A      |
|   | EP-477/2013/A        | 12/08/2021   | 28/12/2023 | Replaced by EP-473/2013/B      |
|   | EP-477/2013/B        | 29/12/2023   | N/A        | Valid                          |
| <b>Construction Noise Permit (CNP)</b>  |                      |              |            |                                |
| Contract No. YL/2020/01   | GW-RN0642-24         | 15/06/2024   | 14/09/2024 | Expired in the reporting month |
|   | GW-RN0857-24         | 09/08/2024   | 08/10/2024 | Valid                          |
|   | GW-RN1005-24         | 15/09/2024   | 14/01/2025 | Valid                          |
| Contract No. YL/2020/02   | GW-RN0656-24         | 18/06/ 2024  | 17/09/2024 | Expired in the reporting month |
|   | GW-RN0842-24         | 21/07/2024   | 20/09/2024 | Expired in the reporting month |
|   | GW-RN0848-24         | 25/07/2024   | 24/09/2024 | Expired in the reporting month |
|   | GW-RN0890-24         | 07/08/ 2024  | 06/09/2024 | Expired in the reporting month |
|   | GW-RN0914-24         | 09/08/2024   | 08/10/2024 | Valid                          |
|   | GW-RN0947-24         | 16/08/2024   | 15/10/2024 | Valid                          |
|   | GW-RN0900-24         | 12/08/2024   | 11/11/2024 | Valid                          |
| Contract No. YL/2021/01   | GW-RN1052-24         | 04/09/2024   | 03/12/2024 | Valid                          |
|   | GW-RN0713-24         | 28/06/2024   | 27/09/2024 | Expired in the reporting month |
|   | GW-RN0794-24         | 08/07/2024   | 07/10/2024 | Valid                          |
|   | GW-RN0937-24         | 16/08/2024   | 15/10/2024 | Valid                          |

| Contract No.   | Permit / License No.  | Valid Period |                        | Status                      |
|--|-----------------------|--------------|------------------------|-----------------------------|
|  |                       | From         | To                     |                             |
| <b>Notification pursuant to Air Pollution Control (Construction Dust) Regulation</b> |                       |              |                        |                             |
| Contract No. YL/2020/01  | 469726                | 21/07/2021   | Till the Contract ends | Receipt acknowledged by EPD |
| Contract No. YL/2020/02  | 471916                | 20/09/2021   | Till the Contract ends | Receipt acknowledged by EPD |
| Contract No. YL/2021/01  | 479880                | 17/05/2022   | Till the Contract ends | Receipt acknowledged by EPD |
| <b>Billing Account for Disposal of Construction Waste</b>                            |                       |              |                        |                             |
| Contract No. YL/2020/01  | 7041333               | 27/07/2021   | Till the Contract ends | Valid                       |
| Contract No. YL/2020/02  | 7041861               | 15/10/2021   | Till the Contract ends | Valid                       |
| Contract No. YL/2021/01  | 7043434               | 22/05/2022   | Till the Contract ends | Valid                       |
| <b>Registration of Chemical Waste Producer</b>                                       |                       |              |                        |                             |
| Contract No. YL/2020/01  | WPN 5213-620-C4632-01 | 21/07/2021   | Till the Contract ends | Valid                       |
| Contract No. YL/2020/02  | WPN 5213-542-C1232-24 | 29/11/2021   | Till the Contract ends | Valid                       |
| Contract No. YL/2021/01  | WPN 5213-542-P3483-01 | 21/04/2022   | Till the Contract ends | Valid                       |
| <b>Effluent Discharge License under Water Pollution Control Ordinance</b>            |                       |              |                        |                             |
| Contract No. YL/2020/01  | WT00039466-2021       | 22/09/2023   | 31/12/2026             | Valid                       |
|  | WT00041233-2022       | 31/10/2022   | 31/07/2027             | Valid                       |
| Contract No. YL/2020/02  | WT00041280-2022       | 27/07/2022   | 31/07/2027             | Valid                       |
|  | WT00042556-2022       | 23/11/2022   | 30/11/2027             | Valid                       |
|  | WT00043043-2023       | 21/04/2023   | 30/04/2028             | Valid                       |
|  | WT10001592-2023       | 7/09/2023    | 30/09/2028             | Valid                       |
|  | WT10001042-2023       | 29/11/2023   | 30/11/2028             | Valid                       |
|  | WT10003163-2024       | 18/06/2024   | 30/06/2029             | Valid                       |
| Contract No. YL/2021/01  | WT00041259-2022       | 21/07/2022   | 31/07/2027             | Valid                       |
| <b>Specified Processes for Cement Works under Air Pollution Control Ordinance</b>    |                       |              |                        |                             |
| Contract No. YL/2020/01  | L-3-270(1)            | 25/04/2023   | 24/04/2025             | Valid                       |

### Status of Compliance with Environmental Permits Conditions

2.16 The status of compliance with Environmental Permit and required submission related to this Project under the EP is summarized in **Table 2.4**:

**Table 2.4 Summary Table for Status of Compliance / Required Submission under Environmental Permit for Main Works Package 1**

| EP Conditions | Submission(s)   | Requirement   | Submission Date   | Approval Status |
|---------------|---|---|---|-----------------|
| 2.3           | Management Organizations  | no later than one month before the commencement of construction of the Project  | <u>YL/2020/01</u> : 7 July 2021<br><u>YL/2020/02</u> : 17 Nov 2021<br><u>YL/2021/01</u> : 30 Mar 2022 | *               |
| 2.4           | Pedestrian Walkway Reserve in the Direct Link to MTR LMC Station  | at least one month before the commencement of construction of the Direct Link, deposited with the Director  | 17 Nov 2021   | *               |
| 2.5 & 2.6     | Submission of Works Schedule and Location Plans   | Works Schedule: at least one month before the commencement of the works of the Project<br>Location Plan: at least two weeks before the commencement of the works of the Project   | <u>YL/2020/01</u> : 7 July 2021<br><u>YL/2020/02</u> : 17 Nov 2021<br><u>YL/2021/01</u> : 30 Mar 2022 | *               |
| 2.7           | Ecological Mitigation / Habitat Creation and Management Plan  | at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director  | 7 Dec 2021 (Issue 4)  | *               |
| 2.8           | Landscape Plan  | at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director  | 28 Mar 2024 (Issue 1)   | *               |
| 2.11          | Emergency Contingency Plan  | at least one month before the commencement of the concerned works of the Project, deposited with the Director   | 26 Oct 2021   | *               |
| 2.15          | Re-appraisal report   | at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director  | 18 Jun 2021   | *               |
| 2.16          | Remediation Report  | no later than one month after the completion of the remediation works for approval  | N/A (no remediation is required according to re-appraisal report)                                     | N/A             |
| 2.17          | (a) Updated Contamination Assessment Plan (CAP)<br>(b) Contamination Assessment Report (CAR)<br>(c) Remedial Action Plan (RAP)<br>(d) Remediation Report (RR) | (a) submitted to the Director for approval<br>(b) no later than two months after the completion of the Supplementary SI<br>(c) submitted to the Director for approval<br>(d) no later than one month after the completion of the remediation works for approval | N/A (no remediation is required according to re-appraisal report)                                     | N/A             |

|         |   |  |  |     |
|---------|---|--|--|-----|
| 2.18    | Updated Storm Water Pollution Control Plan            | at least one month before the commencement of operation of the Project   | To be submitted at least one month before the commencement of operation of the Project | N/A |
| 2.22(a) | Traffic Noise Mitigation Plan (TNMP)                  | no later than one month before the commencement of construction of the traffic noise mitigation measures for the Project | 22 July 2024<br>(Version A, dated July 2024)   | N/A |
| 2.24    | Odour Mitigation Measures and Monitoring Plan (OMMMP) | no later than six months before the commencement of operation of the Project   | 21 May 2024  | N/A |
| 3.3     | Baseline Monitoring Report                            | at least one month before commencement of construction of the Project.   | 3 Dec 2018   | *   |
| 3.4     | Monthly EM&A Report                                   | within 10 working days after the end of each reporting month   | Regular submitted within 10 working days after the end of each reporting month         | *   |

Remarks: \* Approval not required in EP-477/2013/B  
N/A – Not Applicable

### 3 AIR QUALITY MONITORING

#### Monitoring Requirements

- 3.1 In accordance with the EM&A Manual for Development of Lok Ma Chau Loop (EM&A Manual), impact 1-hour Total Suspended Particulates (TSP) and 24-hour TSP monitoring were conducted to monitor the air quality for the Project. **Appendix B** shows the established Action/Limit Levels for the air quality monitoring work.
- 3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was conducted for at least once every 6 days at 4 air quality monitoring stations.

#### Monitoring Location

- 3.3 Impact air quality monitoring was conducted at the 4 monitoring stations under the Project, as shown in **Figure 2**. **Table 3.1** describes the location of the air quality monitoring stations.

**Table 3.1 Location of Air Quality Monitoring Stations**

| Monitoring Station  | Location  |
|---------------------|---|
| DMS-1a (see Note 1) | Village House along Ha Wan Tsuen East Road                      |
| DMS-2A (see Note 2) | Village House along Lok Ma Chau Road                            |
| DMS-2B (see Note 3) | Site boundary near Village House along Lok Ma Chau Road         |
| DMS-3               | Village House along Old Border Road                             |
| DMS-4A (see Note 4) | Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill |

Notes:

- In view of the disturbance concerned by the villagers near the original air quality monitoring location DMS-1, an alternative location (DMS-1a) was proposed which was verified by IEC and agreed by EPD.
- Monitoring at DMS-2 (originally proposed in the approved EM&A Manual) was denied during the baseline monitoring. An alternative location (DMS-2A) was proposed which was verified by IEC and agreed by EPD.
- Alternative location (DMS-2B) was proposed due to DMS-2A is situated within the site area for upcoming road widening works which was verified by IEC and agreed by EPD.
- Proposed replacement monitoring location for Air Sensitive Receiver (ASR) MTL-20 – Village house in Ma Tso Lung (DMS-4A) as no work would be conducted near ASR MTL-20 due to exclusion of the original Eastern Connection Road (ECR) which was verified by IEC and agreed by EPD.

#### Monitoring Equipment

- 3.4 **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(s) | Equipment                              | Model and Make                   | Quantity |
|-----------------------|--|----------------------------------|----------|
| DMS-3                 | HVS Sampler for 24-hour TSP monitoring | TISCH Model: TE-5170             | 2        |
| DMS-4A                | 1-hour TSP Dust Meter                  | Met One Instruments: AEROCET-831 | 1        |

| Monitoring Station(s)    | Equipment  | Model and Make                       | Quantity |
|--------------------------|--|--------------------------------------|----------|
|                          | Calibrator                                       | TISCH Model: TE-5025A                | 1        |
| (1) DMS-2B<br>(2) DMS-1a | Dust Meter for 1-hour and 24-hour TSP monitoring | Met One Instruments:<br>AEROCET-831  | 2        |
| DMS-4A                   | Wind Anemometer                                  | DAVIS Model: Vantage<br>PRO2 6152CUK | 1        |

**Remarks:**

(1) Air quality monitoring has been conducted at DMS-2B (and suspended from DMS-2A) starting from 20 January 2023. Due to the complaint received from the nearby villager about the sound arising from HVS, dust meter was requested for air quality monitoring at DMS-2B starting from March 2023. IEC had no comment on the proposal of using dust meter for monitoring at DMS-2B.

(2) The power supply from the Village House at DMS-1a is not secured for operation of HVS. Therefore, dust meter for 24-hr TSP monitoring at DMS-1a was proposed to ensure the monitoring data collection. IEC had no comment on the proposal of using dust meter for 24-hr TSP monitoring at DMS-1a on 21 June 2022.

**Monitoring Parameters and Frequencies**

- 3.5 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the course of the Project activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

**Table 3.3 Impact Air Quality Monitoring Parameters and Frequencies**

| Parameters | Frequency                   |
|------------|-----------------------------|
| 1-hr TSP   | Three times in every 6 days |
| 24-hr TSP  | Once per 6 days             |

**Monitoring Methodology and Quality Assurance/Quality Control (QA/QC) Procedure****24-hour TSP Air Quality Monitoring*****Instrumentation***

- 3.6 HVSs 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***

- 3.7 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 metres apart;
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protruded above the sampler;

- A minimum of 2 metres of separation from walls, parapets and penthouses was required for rooftop samples;
- A minimum of 2 metres 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 metres 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 had been obtained to set up the samplers; and
- A secured supply of electricity was provided to operate the samplers.

### ***Filters Preparation***

- 3.8 Wellab Limited was the HOKLAS accredited laboratory (HOKLAS Registration No.083) and responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for the monitoring team.
- 3.9 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  $\pm 3$  °C; the relative humidity (RH) was  $< 50\%$  and not variable by more than  $\pm 5\%$ . A convenient working RH was 40%.
- 3.10 Wellab Limited has comprehensive QA and QC programmes.

### ***Operating/Analytical Procedures***

- 3.11 Operating/analytical procedures for the air quality monitoring were highlighted as follows:
- Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/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. Then the filter holding frame was 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 could 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 Wellab Limited 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 not vary by more than  $\pm 3^\circ\text{C}$ ; the RH should be  $< 50\%$  and 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***

3.12 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 condition; and
- All HVSs were calibrated (five-point calibration) using Calibration Kit prior to the commencement of the baseline monitoring and thereafter at bi-monthly intervals.

### **1-hour and 24-hour TSP Air Quality Monitoring**

3.13 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

#### **(AEROCET-831)**

- The 1-hour dust meter is placed 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 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 measuring after 1 hour sampling.
- For 24-hour TSP monitoring, the hold time was set for collection of 24-hour TSP samples. A separate automotive battery was used to support the dust meter for 24-hour TSP monitoring.
- 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***

3.14 The following maintenance/calibration is required for the direct dust meters:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method prior to the commencement of the baseline monitoring. Dust meter will be checked and calibrated at bi-monthly intervals throughout the air quality monitoring period, if necessary.

## Results and Observations

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

**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        |  |                                       |
| DMS – 1a           | 88.8                                       | 53.7 – 123.5 | 353                                    | 500                                   |
| DMS – 2B           | 83.0                                       | 41.9 – 191.1 | 370                                    |                                       |
| DMS – 3            | 56.7                                       | 31.2 – 98.1  | 351                                    |                                       |
| DMS – 4A           | 55.3                                       | 24.9 – 96.5  | 350                                    |                                       |

**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       |  |                                       |
| DMS – 1a           | 61.4                                       | 44.1 – 80.6 | 184                                    | 260                                   |
| DMS – 2B           | 80.2                                       | 67.3 – 96.0 | 166                                    |                                       |
| DMS – 3            | 29.0                                       | 13.2 – 46.6 | 166                                    |                                       |
| DMS – 4A           | 22.0                                       | 17.2 – 31.4 | 152                                    |                                       |

- 3.16 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3.17 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3.18 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are as follows:

**Table 3.6 Observation at Air Quality Monitoring Stations**

| Monitoring Station | Major Dust Source  |
|--------------------|--|
| DMS-1a             | Road traffic, exposed site area / slope / stockpiles of materials, site vehicle / equipment movement |
| DMS-2B             | Road traffic, exposed site area / slope / stockpiles of materials, site vehicle / equipment movement |
| DMS-3              | Road traffic   |
| DMS-4A             | Road traffic   |

- 3.19 The wind speed and wind direction were recorded by the installed Wind Anemometer set at DMS-4A. The location is shown in **Figure 2**.
- 3.20 The general weather condition and the wind data for the reporting month are summarised in **Appendix I**.

#### **Event and Action Plan**

- 3.21 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

## 4 NOISE MONITORING

### Monitoring Requirements

- 4.1 In accordance with the EM&A Manual, four noise monitoring stations, namely NMS-1, NMS-2, NMS-3 and NMS-4A were selected for impact monitoring for the Project. Impact noise monitoring was conducted for at least once per week during the construction phase of the Project. **Appendix B** shows the established Action / Limit Levels for the noise monitoring works.

### Monitoring Location

- 4.2 Impact noise monitoring was conducted at the 4 monitoring stations under the Project, as shown in **Figure 3**. **Table 4.1** describes the locations of the noise monitoring stations.

**Table 4.1 Location of Noise Monitoring Stations**

| Monitoring Station  | Location  | Measurement            |
|---------------------|---|------------------------|
| NMS-1               | Village house in Ha Wan Tsuen                                   | Façade Measurement     |
| NMS-2               | Village house along existing Ha Wan Tsuen                       | Free Field             |
| NMS-3               | Village house along Old Border Road                             | Free Field             |
| NMS-4A (see Note 1) | Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill | Free Field measurement |

Note:

- Proposed replacement monitoring location for Noise Sensitive Receiver (NSR) MTL-20 – Village house in Ma Tso Lung (NMS-4A) as no work would be conducted near NSR MTL-20 due to exclusion of the original ECR.

### Monitoring Equipment

- 4.3 **Table 4.2** summarises the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix C**.

**Table 4.2 Noise Monitoring Equipment**

| Equipment                     | Model          | Quantity |
|-------------------------------|----------------|----------|
| Integrating Sound Level Meter | BSWA 308       | 3        |
| Calibrator                    | SVANTEK SV 30A | 3        |

### Monitoring Parameters, Frequency and Duration

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

**Table 4.3 Noise Monitoring Parameters, Duration and Frequency**

| Monitoring Stations               | Parameter  | Duration                            | Frequency     |
|-----------------------------------|--|-------------------------------------|---------------|
| NMS-1<br>NMS-2<br>NMS-3<br>NMS-4A | L10(30 min.) dB(A)<br>L90(30 min.) dB(A)<br>Leq(30 min.) dB(A)<br>(as six consecutive Leq,<br>5min readings) | 0700-1900 hrs on normal<br>weekdays | Once per week |

Remarks:

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.

### 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 facade 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, the time weighting and the 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 hrs 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  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were 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 record 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 head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

4.6 The sound level meter and calibrator 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 G**.

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

| Monitoring Station | Noise Level, $L_{eq}$ (30min) dB(A) |             | Action Level                               | Limit Level |
|--------------------|-------------------------------------|-------------|--|-------------|
|                    | Average                             | Range       |  |             |
| NMS-1              | 59.9                                | 55.9 – 63.4 | When one documented complaint is received. | 75 dB(A)    |
| NMS-2              | 71.7                                | 68.5 – 72.6 |  |             |
| NMS-3              | 55.1                                | 48.9 – 59.8 |  |             |
| NMS-4A             | 51.6                                | 49.5 – 53.3 |  |             |

Remark: +3dB(A) façade correction included

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

- 4.9 All noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded.
- 4.10 According to our field observations, the major noise source identified at the designated noise monitoring stations in the reporting month are as follows:

**Table 4.5 Observation at Noise Monitoring Stations**

| Monitoring Station | Major Noise Source   |
|--------------------|--|
| NMS-1              | Excavation works, loading and unloading works, site vehicle / equipment movement                 |
| NMS-2              | Breaking works, excavation works, loading and unloading works, site vehicle / equipment movement |
| NMS-3              | Road traffic   |
| NMS-4A             | Road traffic   |

### Event and Action Plan

- 4.11 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

## 5 WATER QUALITY MONITORING

### Monitoring Requirements

- 5.1 According to the EM&A Manual, impact water quality monitoring shall be carried out three days per week during the construction period. The interval between two sets of monitoring shall not be less than 36 hours.
- 5.2 Replicate in-situ measurements and samples collected from each independent sampling event shall be collected to ensure a robust statistically interpretable database.
- 5.3 Impact water quality monitoring was conducted at three depths (i.e. 1m below surface, mid-depth and 1m above river bed, except where the water depth was less than 6m, mid-depth station might be omitted. Should the water depth be less than 3m, only the mid-depth station was monitored) dissolved oxygen (DO) concentration, DO saturation, suspended solids (SS), turbidity, pH, salinity and temperature were monitored in accordance with the requirements set out in the EM&A Manual.
- 5.4 **Appendix B** shows the established Action and Limit Levels for the water quality monitoring work.

### Monitoring Locations

- 5.5 Impact water quality monitoring was conducted at 6 monitoring stations under the Project, which is summarised in **Table 5.1**. The locations of monitoring stations are shown in **Figure 4**.
- 5.6 Based on the updated construction programme under Contract No. YL/2017/03, the water-based construction works for temporary vehicular bridge was completed on 7<sup>th</sup> April 2021 which was confirmed by Engineer Representative under Contract No. YL/2017/03 via email dated 15<sup>th</sup> June 2021. The additional monitoring station, BS1 was therefore proposed to be deleted from the water quality monitoring programme starting from 28<sup>th</sup> June 2021. Other water quality monitoring stations remain unchanged. This Proposal for Update of Water Quality Monitoring Stations was verified by IEC and agreed by EPD via email dated 22<sup>nd</sup> June 2021.

**Table 5.1 Location for Water Quality Monitoring Stations**

| Monitoring Station | Location                                     | Nature of the Location                                   |
|--------------------|--|--|
| CS1                | Control Station at Old Shenzhen River        | Control Station at Meander                               |
| IS1                | Impact Station at Old Shenzhen River         | Impact Station at Meander                                |
| IS2                | Impact Station at Old Shenzhen River         | Impact Station at Meander                                |
| IS4                | Impact Station at Ping Hang Stream           | Reference Station  |
| CS5                | Control Station at south of Lung Hau         | Control Station for IS6                                  |
| IS6                | Impact Station near Lung Hau Road            | Impact Station   |
| <sup>(1)</sup> BS1 | Impact Station at Old Shenzhen River Meander | Additional impact station for temporary vehicular bridge |

Note:

1. Terminated starting from 28<sup>th</sup> June 2021 according to Proposal for Update of Water Quality Monitoring Stations (approved by EPD on 22<sup>nd</sup> June 2021).

## **Monitoring Equipment**

### **Instrumentation**

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

### **DO and Temperature Measuring Equipment**

- 5.8 The instrument for measuring DO and temperature was portable and weatherproof complete with cable, sensor, comprehensive operation manuals and use DC power source. It was capable of measuring:

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

- 5.9 It had a membrane electrode with automatic temperature compensation complete with a cable.
- 5.10 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.
- 5.11 Salinity compensation was built-in in the DO equipment.

### **Turbidity**

- 5.12 Turbidity was measured in-situ by the nephelometric method. The instrument was portable and weatherproof using a DC power source 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 SS. The turbidity measurement was carried out on split water sample collected from the same depths of SS samples.

### **Sampler**

- 5.13 A water sampler, consisting of a transparent Polyvinyl Chloride (PVC) of a capacity of not less than two litres which could 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 self-made sampling bucket was also used for sampling at the monitoring station with shallow water.

### **Water Depth Detector**

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

### **pH**

- 5.15 The instrument was consisting 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.



**Salinity**

- 5.16 A portable salinometer capable of recording salinity within the range of 0-40 ppt was used for salinity measurements.

**Sample Container and Storage**

- 5.17 Following collection, water samples for laboratory analysis were stored in high density polythene bottles (250ml/1L) with no preservatives added, packed in ice (cooled to 4 °C without being frozen) and kept in dark during both on-site temporary storage and shipment to the testing laboratory. The samples were delivered to the laboratory as soon as possible and the laboratory determination work was started within 24 hours after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.
- 5.18 **Table 5.2** also summarises the type of sampling bottle and preservation method for laboratory testing.

**Table 5.2 Types of Sampling Bottle and Preservation Method**

| Parameter | Preservation Method | Type of Sample Container |
|-----------|---------------------|--------------------------|
| Total SS  | Refrigerate         | 1 litre plastic bottle   |

**Calibration of In-Situ Instruments**

- 5.19 All in-situ monitoring instruments were checked, calibrated and certified by Wellab Limited before use, and subsequently re-calibrated at 3-month intervals throughout all stages of the water quality monitoring programme. Responses 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 event.
- 5.20 For the on-site calibration of field equipment (Multi-parameter Water Quality System), the BS 1427:2009, "Guide to on-site test methods for the analysis of waters" was observed.
- 5.21 Sufficient stocks of spare parts were maintained for replacement when necessary. Backup monitoring equipment was also being made available so that monitoring could proceed uninterrupted even when some equipment was under maintenance, calibration, etc.
- 5.22 The equipment used for impact water quality monitoring is shown in **Table 5.3** and copies of the calibration certificates are shown in **Appendix C**. All the monitoring equipment complied with the requirements set out in the EM&A Manual.

**Table 5.3 Water Quality Monitoring Equipment**

| Equipment                      | Model and Make   | Quantity |
|--------------------------------|--|----------|
| Sonar Water Depth Detector     | Garmin Fishfinder 140 / Garmin Striker plus 4  | 1        |
| Water Sampler                  | A 2-litre transparent PVC cylinder with latex cups at both ends or self-made sampling bucket | 1        |
| Multi-parameter Quality System | YSI EXO 1  | 2        |

## Monitoring Parameters and Frequency

5.23 **Table 5.4** summarises the monitoring parameters, monitoring depths and frequency of the water quality monitoring. The water quality monitoring schedule for the reporting month is shown in **Appendix D**.

**Table 5.4 Water Quality Monitoring Parameters, Depths and Frequency**

| Monitoring Station           | Parameter (unit)  | Depth  | Frequency   |
|------------------------------|---|--|---|
| CS1, IS1, IS2, IS4, CS5, IS6 | <ul style="list-style-type: none"> <li>• Temperature(°C)</li> <li>• pH (pH unit)</li> <li>• turbidity (NTU)</li> <li>• water depth (m)</li> <li>• salinity (ppt)</li> <li>• DO (mg/L and % of saturation)</li> <li>• SS (mg/L)</li> </ul> | <ul style="list-style-type: none"> <li>• 3 water depths: 1m below water surface, mid-depth and 1m above river bed.</li> <li>• If the water depth was less than 3m, mid-depth sampling only.</li> <li>• If water depth was less than 6m, mid-depth might be omitted.</li> </ul> | <ul style="list-style-type: none"> <li>• 3 days per week during the construction period of the Project</li> </ul> |

5.24 Monitoring location/position, time, water depth, sampling depth, pH, salinity, DO saturation, water temperature, tidal stages, weather conditions and any special phenomena or work underway nearby were recorded.

## Monitoring Methodology

### *Instrumentation*

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

### *Operating/Analytical Procedures*

5.26 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 values between the first and second readings of each set was more than 25% of the value of the first readings, this set of readings was discarded and further readings were taken.

### *Laboratory Analytical Methods*

5.27 The testing of all parameters was conducted by Wellab Limited for the water samples and comprehensive QA and QC procedures were in place in order to ensure the quality and consistency of results. The testing method, reporting limit and detection limit are provided in **Table 5.5**.

**Table 5.5 Laboratory Analysis Method for Water Samples**

| Determinant | Instrumentation | Analytical Method | Limit of Reporting | Detection Limit |
|-------------|-----------------|-------------------|--------------------|-----------------|
| SS          | Weighing        | APHA 17ed 2540 D  | 2.5 mg/L           | 0.5 mg/L        |

Remark: The limit of reporting, 2.5mg/L has been adopted during baseline water quality monitoring stage

### ***QA/QC Requirements***

#### Decontamination Procedures

- 5.28 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed clean seawater/distilled water after each sampling event. All disposal equipment was discarded after sampling.

#### Sampling Management and Supervision

- 5.29 All sampling bottles were labelled with the sample identity laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.
- 5.30 The laboratory determination work was started as soon as possible after collection of the water samples.

#### QC Measures for Sample Testing

- 5.31 The sample testing and following QC programme were performed by Wellab Limited for every batch of 20 samples:
- ✧ One method blank; and
  - ✧ One set of QC samples.

### ***Maintenance and Calibration***

- 5.32 All in-situ monitoring instruments were checked, calibrated and certified by Wellab Limited before use, and subsequently re-calibrated at 3-month intervals throughout all stages of the water quality monitoring programme.

### ***Results and Observations***

- 5.33 The monitoring results and graphical presentation of water quality at the monitoring stations are shown in **Appendix H**.
- 5.34 The summary of exceedance recorded in the reporting month is shown in **Appendix K** and summarised in the **Table 5.6**.

**Table 5.6 Summary of Water Quality Exceedances**

| Station | Exceedance Level | DO | Turbidity | SS | Total Number of Non-project Related Exceedances | Total Number of project Related Exceedances |
|---------|------------------|----|-----------|----|---|---|
| IS1     | Action Level     | 0  | 0         | 0  | 0   | 0   |
|         | Limit Level      | 0  | 0         | 0  | 0   | 0   |
| IS2     | Action Level     | 0  | 0         | 0  | 0   | 0   |
|         | Limit Level      | 0  | 0         | 0  | 0   | 0   |
| IS4     | Action Level     | 0  | 0         | 0  | 0   | 0   |
|         | Limit Level      | 0  | 0         | 0  | 0   | 0   |
| IS6     | Action Level     | 0  | 0         | 0  | 0   | 0   |
|         | Limit Level      | 0  | 0         | 0  | 0   | 0   |
| Total   | Action Level     | 0  | 0         | 0  | 0   | 0   |
|         | Limit Level      | 0  | 0         | 0  | 0   | 0   |

5.35 Water quality monitoring was conducted according to the schedule as shown in **Appendix D**. No Action/Limit Level exceedance was recorded.

5.36 No water quality monitoring was conducted at IS6 in the reporting month since the channel was dry. Water quality monitoring station, IS6 will be further reviewed and a proposal for any alternative monitoring location including justification will be submitted for approval from IEC and EPD (if necessary).

**IS6**

### **Event and Action Plan**

5.37 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

## 6 ECOLOGICAL MONITORING

### LMC Loop

#### **Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)**

##### Monitoring Requirements

- 6.1 As required under Section 11.4.1.1 of EM&A Manual, flight line corridor survey was required from the beginning of work until 12 months after the establishment of the Ecological Area or completion of work on the Western Connection Road, whichever was the later.
- 6.2 The purpose of the survey was to identify the number and species composition of birds using the flight line and monitor if there was any impact from construction works.

##### Monitoring Frequency

- 6.3 Flight line survey is required to be carried out on monthly basis.

##### Monitoring Location

- 6.4 The flight line corridor survey work should be carried out at the Lok Ma Chau Lookout, according to Section 11.4.1.1 of the EM&A Manual. The location at Lok Ma Chau Lookout is shown in **Figure 5a**.

##### Monitoring Methodology

- 6.5 Flight lines of birds through the area were surveyed once monthly at Lok Ma Chau Lookout, adjacent to the Loop.
- 6.6 Observations were carried out at Lok Ma Chau Lookout for two hours from 30 minutes before sunrise in the early morning.
- 6.7 During the survey, the surveyor marked on a standard map for the estimated location of the flight path used by waterbird species, birds of prey or other larger species of conservation interest passing through the area. Flights involving short hops from point to point were not recorded. The focus was on the flight line corridor over the Loop or the southwest section of old Shenzhen River meander.
- 6.8 During the survey, species generally commensal with man (e.g. Black-collared Starling), common and widespread in HK (e.g. Crested Myna) or small in size and not prone to following flight lines en masse (e.g. Barn Swallow) were ignored in order to concentrate on species of conservation interest and/or those prone to using flight lines (e.g. large waterbirds).
- 6.9 For each observation of birds in flight, the number, the species and their height above the ground were recorded. Height above the ground was estimated in relation to the level of the Loop and adjacent fish pond area, and/or the location of the observer.

- 6.10 Given the difficulty of accurately measuring height above ground from a distance, three height classes were used: 10m, 20m and 30m or above. In practice, this means birds were assigned to ranges of 5-15m (10m height class), 15-25m (20m height class) and 25m or above (30m height class). Approximate heights of observation points were 40m at Lok Ma Chau Lookout.
- 6.11 Flight line locations marked on the maps were then overlain with a 100m grid, each square having a unique number.
- 6.12 The number of birds of each species passing through each 100m grid (the number of “bird-flights”) and their height above ground were then entered into an Excel spreadsheet. These data were then mapped, and on the figures produced a greater intensity of colour indicated a higher number of birds, as shown in **Figure 6**.

#### Monitoring Day

- 6.13 The flight line survey was carried out on 20<sup>th</sup> September 2024. Sunrise time at 6:11 am and the survey started at 5:41 am and lasted for 2 hours. The weather was cloudy throughout the survey.

#### Monitoring Result

- 6.14 Total number of birds observed was 126. Six species were included in the record of the flight line survey, including Little Egret, Great Egret, Chinese Pond Heron, Grey Heron, Great Cormorant and Black Kite. **Table 6.1** shows the summary of the number of birds observed in this Survey.

**Table 6.1 Number of Birds Observed**

| Species               | Number of Birds | Height class 1 | Height Class 2 | Height Class 3 |
|-----------------------|-----------------|----------------|----------------|----------------|
| Little Egret 小白鷺      | 32              | 1              | 6              | 25             |
| Great Egret 大白鷺       | 77              | 0              | 8              | 69             |
| Chinese Pond Heron 池鷺 | 6               | 2              | 2              | 2              |
| Grey Heron 蒼鷺         | 3               | 1              | 0              | 2              |
| Great Cormorant 普通鸕鶿  | 3               | 0              | 0              | 3              |
| Black Kite 黑鳶         | 5               | 0              | 0              | 5              |
| <b>Total</b>          | 126             | 4              | 16             | 106            |

- 6.15 The total number of bird-flights (number of birds of each species passing through each 100m square) observed across all 100m grid squares was 1,174. **Table 6.2** shows the number of bird-flights for the six species respectively.
- 6.16 The distribution of flight line usage in this survey is shown in **Figure 6**.
- 6.17 Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds prefer using the flight line corridor above the LMC Meander and EA Zone.

**Table 6.2 Number of Bird-flights**

| Species               | Total number of Bird-Flights |
|-----------------------|------------------------------|
| Little Egret 小白鷺      | 311                          |
| Great Egret 大白鷺       | 722                          |
| Chinese Pond Heron 池鷺 | 38                           |
| Grey Heron 蒼鷺         | 23                           |
| Great Cormorant 普通鸕鶿  | 30                           |
| Black Kite 黑鳶         | 50                           |
| <b>Total</b>          | <b>1,174</b>                 |

**Monitoring Requirements (Mammals)**Monitoring Requirements

- 6.18 As required under Section 11.4.1.2 of the EM&A Manual, monitoring of mammals are required for Eurasian Otter, other mammals and dogs during the site formation and establishment period of Ecological Area.
- 6.19 The purpose of the monitor is to observe the connectivity between the reed marsh in the LMC Loop and the Ecological Area, and if there was any sign of otter and mammals around the Ecological Area.

Monitoring Location

- 6.20 Three cameras should be placed where accessible, facing towards the Ecological Area and the Loop. The locations of cameras are subject to the project progress and result of the survey.

Monitoring Methodology

- 6.21 Monitoring of Eurasians Otter is notoriously difficult due to their secretive and nocturnal habits in Hong Kong. Therefore, remote-sensing (infra-red flash) cameras shall be used to detect any signs of Eurasian Otter and mammals.

Monitoring Results

- 6.22 In view of current site condition of Loop, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier. In addition, 12-month establishment period of EA zone has also been completed.
- 6.23 The mammals monitoring in the Loop was therefore temporarily suspended since March 2022 and will be resumed subject to the site condition.

**Western Connection Road****Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)**

- 6.24 Refer to Sections 6.1 to 6.17.

## **Monitoring Requirements (Avifauna Monitoring – Pond 12)**

### Monitoring Requirements

- 6.25 As required under Section 11.4.2.1 of EM&A Manual, weekly counts of the number and species of bird using Pond 12 was required from the beginning of work until 12 months after the establishment of the Ecological Area or completion of work on the Western Connection Road, whichever is the later.
- 6.26 The purpose of the survey was to identify the number and species composition of birds using Pond 12 to ensure there would be no impacts greater than predicted from construction works.

### Monitoring Frequency

- 6.27 Pond 12 avifauna survey is required to be carried out on a weekly basis.

### Monitoring Location

- 6.28 Monitoring of avifauna was conducted at Pond 12. Location of Pond 12 is shown in **Figure 5a**.

### Monitoring Methodology

- 6.29 The species and number of birds using Pond 12 were surveyed weekly. Each weekly survey started before the commencement of works of the day, and ended 1 hour after works had begun.
- 6.30 During the survey, the surveyor would identify and count each bird using Pond 12 with a pair of binoculars and a camera. The abundance and species of the identified birds would be recorded.

### Monitoring Result

- 6.31 Pond 12 avifauna surveys were carried out weekly in the reporting month.

Dates of pond 12 avifauna survey: 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup> and 23<sup>rd</sup> September 2024

- 6.32 In total, 125 individuals from 18 avifauna species were recorded at Pond 12 in the reporting month. The detailed results are shown in **Appendix R1**.
- 6.33 The monitoring results during construction works were compared against the results before the commencement of works of the day. The number of bird species and the abundance of birds recorded at Pond 12 during construction were higher than the results prior to the construction works. (Refer to **Table 6.3**).



**Table 6.3 Summary of Avifauna Monitoring Results at Pond 12**

| Monitoring Date                 | Number of Species   |                     | Abundance           |                     |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|
|                                 | Before Construction | During Construction | Before Construction | During Construction |
| 2 <sup>nd</sup> September 2024  | 8                   | 13                  | 9                   | 32                  |
| 9 <sup>th</sup> September 2024  | 6                   | 8                   | 7                   | 18                  |
| 16 <sup>th</sup> September 2024 | 7                   | 9                   | 10                  | 20                  |
| 23 <sup>rd</sup> September 2024 | 5                   | 8                   | 11                  | 18                  |

6.34 The monitoring results indicated Pond 12 was utilized by waterbirds and wetland-dependent species in the reporting month. No significant impact of construction activities on bird use of the pond was observed.

### **Herpetofauna**

#### Monitoring Requirements

6.35 Under Section 11.4.2.2 of EM&A Manual, monitoring of the only herpetofauna species of conservation interest in the area around pond 12, the Chinese Bullfrog, should be conducted before and during the whole construction period.

6.36 The purpose of the survey was to ensure the abundance of the Chinese Bullfrog in the area of Pond 12, LMC Tsuen, and nearby wetlands is not affected by construction works.

#### Monitoring Frequency

6.37 Herpetofauna monitoring was conducted once monthly during wet season (March to October), including both day-time and night-time survey.

#### Monitoring Location

6.38 Herpetofauna monitoring was conducted along the designated transect around Pond 12, LMC Tsuen, as well as any nearby wetlands within a 100m radius into which disturbed bull frog may move. Location of the Herpetofauna survey transect is shown in **Figure 5b** for reference.

#### Monitoring Methodology

6.39 Survey along the transect was conducted once during daytime, and once during night time. Surveyors would actively search for presence of tadpoles, froglets or adults in potential habitats (such as ditches, ponds, marshes and wet agricultural land) through direct observation, or identification of vocalisations.

### Monitoring Result

6.40 Herpetofauna survey was carried out once in the reporting month.

Date of Herpetofauna survey: 3<sup>rd</sup> September 2024  
(both day-time and night-time survey)

6.41 No potential impact due to the construction activities of Western Connection Road was identified during the survey of Chinese Bullfrog in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. The detailed results are shown in **Appendix R2**.

### **Aquatic Fauna**

#### Monitoring Requirements

6.42 Under Section 11.4.2.3 of EM&A Manual, surveys of the population of Rose Bitterling at streams and associated ponds south of Lung Hau Road and monitoring of water quality are required to identify potential impacts.

6.43 The purpose of the survey was to ensure the population of Rose Bitterling at the stream and associated ponds south of Lung Hau Road as well as the water quality at the area where Rose Bitterling is present are not affected by construction works.

#### Monitoring Frequency

6.44 Monitoring of Rose Bitterling population was conducted monthly during the construction period of WCR to identify potential impacts.

6.45 *In situ* monitoring of water quality was conducted weekly at the stream and associated ponds south of Lung Hau Road where Rose Bitterling is present, and whole site audit was carried out at the construction site to identify potential impacts on the stream.

6.46 *In situ* monitoring of water quality in LMC Meander was conducted weekly during the construction phase and the first 12 months of operation.

#### Monitoring Location

6.47 Monitoring of Rose Bitterling and *in situ* monitoring of water quality were conducted at the stream and associated ponds south of Lok Ma Chau Road where Rose Bitterling is present. There are 4 sampling points along the stream, and 4 sampling points at the ponds. The sampling locations are shown in **Figure 5c**.

6.48 *In situ* monitoring of water quality in LMC Meander was conducted at 3 monitoring stations, including CS1, IS1 and IS2, as stated in Section 6.3 of the EM&A Manual. The monitoring stations are shown in **Figure 4**.

Monitoring Methodology

- 6.49 Monitoring of Rose Bitterling was conducted by bankside observation with the aid of binoculars, for 5 minutes at each sampling point. After bankside observation, sweep netting was also carried out at each sampling point, if feasible.
- 6.50 The number of Rose Bitterling observed on bankside and by sweep netting at each sampling location was recorded. Other human activities or change in environment that may affect the survey result will be specified, if any.
- 6.51 Measurements for *in situ* monitoring of water quality include temperature, pH, salinity, turbidity and dissolved oxygen. Monitoring equipment for water quality monitoring is presented in Section 5.

Monitoring Result

- 6.52 Aquatic fauna survey was carried out once and weekly *in situ* water quality monitoring was conducted in the reporting month.

Date of Aquatic Fauna Survey: 6<sup>th</sup> September 2024

LMC Meander

2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 9<sup>th</sup>, 11<sup>th</sup>, 13<sup>th</sup>, 17<sup>th</sup>, 19<sup>th</sup>, 21<sup>st</sup>,  
23<sup>rd</sup>, 25<sup>th</sup>, 27<sup>th</sup> and 30<sup>th</sup> September 2024

Date of Water Quality Monitoring for  
Aquatic Fauna

Stream and associated ponds south of  
Lung Hau Road

6<sup>th</sup>, 9<sup>th</sup>, 19<sup>th</sup> and 25<sup>th</sup> September 2024

- 6.53 No potential impact due to the runoff from the construction activities of the Western Connection Road was identified during the survey of Aquatic Fauna in the reporting month. In addition, no deterioration in the water quality due to the construction activities of the Western Connection Road was observed.
- 6.54 The detailed aquatic fauna (Rose Bitterling) results and *In situ* water quality monitoring results at the stream and associated ponds south of Lung Hau Road are shown in **Appendices R3** and **R4** respectively.
- 6.55 *In situ* water quality monitoring results in LMC Meander at 3 monitoring stations, including CS1, IS1 and IS2 are presented in Section 5 and **Appendix H**. No Action/Limit Level exceedance was recorded.

## 7 LAND CONTAMINATION

### General

- 7.1 According to the EM&A Manual Section 8.2 and the details of the remediation and associated testing referred to in Chapter 8 of the EIA Report (AEIAR-176/2013), five (5) arsenic-contaminated zones were identified within the Loop. The estimated depth and volume of contaminated soil for each remediation zone are listed in **Table 7.1** below.

**Table 7.1 Detailed Contamination Information for Designated Remediation Areas**

| Contamination Zone ID in EIA | Contamination Hot Spot | Estimated Vertical Extent of Contamination | Estimated Thickness (m) | Estimated Area of Contamination Zone (m <sup>2</sup> ) | Estimated Volume of Contaminated Soil (m <sup>3</sup> ) |
|------------------------------|------------------------|--|-------------------------|--|---|
| A-S24                        | LD-001                 | 2.5m to 4.0m below existing ground level   | 1.5                     | 4001   | 6002  |
| A-SG10                       | LD-002                 | 4.0m to 5.5m below existing ground level   | 1.5                     | 3520   | 5280  |
| A-S20                        | LD-003                 | 2.5m to 4.0m below existing ground level   | 1.5                     | 4989   | 7484  |
| A-S03                        | LD-004-A               | 2.5m to 4.0m below existing ground level   | 1.5                     | 4580   | 6870  |
| A-S03a1                      | LD-004-B               | 4.0m to 5.5m below existing ground level   | 1.5                     | 4452   | 6678  |
| A-S03c1                      | LD-004-C               | 1.0m to 2.5m below existing ground level   | 1.5                     | 5601   | 8402  |
| A-S01                        | LD-005                 | 2.5m to 5.5m below existing ground level   | 3.0                     | 5576   | 16728   |

- 7.2 Based on the Contract requirements, “Solidification / Stabilisation” was the recommended treatment method to remediate all contaminated soils and Portland cement was proposed to be used for the contaminated soil treatment. The target of soil remediation is listed in **Table 7.2**.

**Table 7.2 Contaminant Solidification & Stabilisation Target for Cement Solidification / Stabilisation (CS/S)**

| Contaminant     | Toxicity Characteristic Leaching Procedure (TCLP) Limit of Arsenic | Unconfined Compressive Strength (UCS) |
|-----------------|--|---------------------------------------|
| Metal – Arsenic | ≤5 mg/L  | ≥1 Mpa                                |

- 7.3 Trial of CS/S was undertaken between April and June 2019 and the second trial was conducted in August 2019. According to trial performance results, cement / soil ratios of 10% and 7.5% could achieve the remediation target and these ratios had been adopted for the subsequent remediation work. The proposed cement/soil ratios were accepted by

relevant parties before the remediation work started. The contaminated soil excavation and remediation commenced on site in mid-July 2019.

### **Remediation Work Progress in the Reporting Month**

- 7.4 As advised by the Contractor, Decontamination for all Hotspots (LD01 - LD05) was completed and backfilling of treated soil was completed on 31 May 2021. After completion of remediation works at each hot spots, Interim Remediation Reports (IRR) would be prepared by the Land Contamination Specialist and submitted to EPD in accordance with Condition 2.16 of the EP. The status of IRRs are summarised below.
- (a) IRR for hot spot LD-001 endorsed by EPD on 6<sup>th</sup> January 2020
  - (b) IRR for hot spot LD-003 endorsed by EPD on 18<sup>th</sup> March 2020
  - (c) IRR for hot spot LD-002 commented by EPD on 3<sup>rd</sup> September 2020 and resubmitted by Contractor on 16<sup>th</sup> September 2020
  - (d) IRR for hot spot LD-005 endorsed by EPD on 23<sup>rd</sup> October 2020
  - (e) Final Remediation Report including the result of hotspot LD-004 was submitted to EPD on 28<sup>th</sup> June 2021. The final Remediation Report was approved by EPD with minor comments in August 2021.
- 7.5 No work related to land contamination was conducted in the reporting month.

**8 WASTE MANAGEMENT****General**

8.1 Waste management was carried out in accordance with the Waste Management Plan (WMP) for the Project.

**Solid and Liquid Waste Management Status**

8.2 The amount of waste generated by the activities of the Project in the reporting month is shown **Table 8.1**.

**Table 8.1 Quantities of Waste Generated in the Reporting Month**

| Contract(s)             | Waste Type |   | Quantity this month | Disposal / Dumping Grounds |
|-------------------------|------------|---|---------------------|----------------------------|
| Contract No. YL/2020/01 | Inert      | Reused in this Contract (Inert) (in '000 m <sup>3</sup> )             | 0                   | N/A                        |
|                         |            | Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> ) | 0                   | N/A                        |
|                         |            | Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )             | 5.501               | Tuen Mun Area 38 Fill Bank |
| Contract No. YL/2020/02 |            | Reused in this Contract (Inert) (in '000 m <sup>3</sup> )             | 0                   | N/A                        |
|                         |            | Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> ) | 0                   | N/A                        |
|                         |            | Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )             | 1.251               | Tuen Mun Area 38 Fill Bank |
| Contract No. YL/2021/01 |            | Reused in this Contract (Inert) (in '000 m <sup>3</sup> )             | 0                   | N/A                        |
|                         |            | Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> ) | 0                   | N/A                        |
|                         |            | Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )             | 0                   | N/A                        |
| Contract No. YL/2020/01 | Non-inert  | Recycled Metal ('000kg)   | 0                   | N/A                        |
|                         |            | Recycled Paper / Cardboard Packing ('000kg)                           | 0                   | N/A                        |
|                         |            | Recycled Plastic ('000kg)   | 0                   | N/A                        |
|                         |            | Chemical Wastes ('000kg)  | 0                   | N/A                        |
|                         |            | General Refuses ('000m <sup>3</sup> )                                 | 0.068               | NENT Landfill              |
| Contract No. YL/2020/02 |            | Recycled Metal ('000kg)   | 0                   | N/A                        |
|                         |            | Recycled Paper / Cardboard Packing ('000kg)                           | 0.057               | N/A                        |
|                         |            | Recycled Plastic ('000kg)   | 0                   | N/A                        |
|                         |            | Chemical Wastes ('000kg)  | 0                   | N/A                        |
|                         |            | General Refuses ('000m <sup>3</sup> )                                 | 0.267               | NENT Landfill              |
| Contract No. YL/2021/01 |            | Recycled Metal ('000kg)   | 0                   | N/A                        |
|                         |            | Recycled Paper / Cardboard Packing ('000kg)                           | 0                   | N/A                        |
|                         |            | Recycled Plastic ('000kg)   | 0                   | N/A                        |
|                         |            | Chemical Wastes ('000kg)  | 0                   | N/A                        |
|                         |            | General Refuses ('000m <sup>3</sup> )                                 | 0.054               | NENT Landfill              |

8.3 The amount of waste generated by the construction works of the Project in Waste Flow Table during the reporting month is shown in **Appendix O**.

## 9 ENVIRONMENTAL SITE INSPECTION

### Site Audits

- 9.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Project site. The summaries of site audits are attached in **Appendix L**.
- 9.2 Site audits were conducted by ET with the representative of the Consultants, the Contractor and IEC on 2<sup>nd</sup>, 4<sup>th</sup>, 9<sup>th</sup>, 11<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 25<sup>th</sup> and 30<sup>th</sup> September 2024 in the reporting month. Summary of site audits under the Project are presented in **Table 9.1**. The details of observations during site audit are shown in **Table 9.2**.

**Table 9.1 Summary of Site Audits**

| Contract(s)   | Date(s) of Site Environmental Audit   |
|---|---|
| Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1          | 4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024                   |
| Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 | 4 <sup>th</sup> , 11 <sup>th</sup> , 16 <sup>th</sup> and 25 <sup>th</sup> September 2024                   |
| Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2  | 2 <sup>nd</sup> , 9 <sup>th</sup> , 16 <sup>th</sup> , 23 <sup>rd</sup> and 30 <sup>th</sup> September 2024 |

- 9.3 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 9.2**.

**Table 9.2 Observations and Recommendations of Site Audit**

| Parameters                     | Date                                  | Observations and Recommendations   | Follow-up   |
|--------------------------------|---------------------------------------|--|---|
| <b>Contract No. YL/2020/01</b> |                                       |  |   |
| <i>Air Quality</i>             | 16/09/2024                            | Dust suppression measures should be enhanced for the dusty access road to the site office. | Water spraying has been applied on the dusty access road by the Contractor as observed during follow-up audit session on 25/09/2024.            |
| <i>Noise</i>                   | --                                    | No major environmental deficiency was identified during the reporting month.               | --  |
| <i>Water Quality</i>           | 4/09/2024<br>11/09/2024<br>16/09/2024 | The stockpiles of sand / soil should be covered properly with tarpaulin sheet at WCR.      | The stockpiles of sand / soil have been removed or covered properly by the Contractor as observed during follow-up audit session on 25/09/2024. |
|                                | 4/09/2024<br>11/09/2024<br>16/09/2024 | The muddy surface runoff should be properly collected at near Pond 10.                     | The sump pit with pump has been installed by the Contractor to divert muddy surface runoff to wastewater treatment system as                    |

| Parameters                                 | Date  | Observations and Recommendations   | Follow-up   |
|--|---|--|---|
|  |   |  | observed during follow-up audit session on 25/09/2024.  |
|  | 11/09/2024<br>16/09/2024                            | The damage sand bag bund along the boundary of EA Zone should be replaced.   | The damage sand bag bund along the boundary of EA Zone have been replaced by the Contractor as observed during follow-up audit session on 25/09/2024.   |
|  | 11/09/2024<br>16/09/2024<br>25/09/2024              | Wheel washing facilities should be provided at the site exit of Box C.   | The previous site exit has no longer used and the access road outside was observed clear as observed during follow-up audit session on 2/10/2024.   |
|  | 25/09/2024  | The bunding along the meander should be further enhanced to avoid any muddy surface runoff discharging out directly.   | The bunding along the meander has been further enhanced to avoid any muddy surface runoff discharging out directly by the Contractor as observed during follow-up audit session on 2/10/2024.           |
| <b>Waste /<br/>Chemical<br/>Management</b> | 4/09/2024<br>11/09/2024<br>16/09/2024<br>25/09/2024 | The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.  | Environmental deficiencies were observed not improved/ rectified by the Contractor in the reporting period. Follow up action is needed in the next audit session.                                       |
|  | 4/09/2024<br>11/09/2024<br>16/09/2024               | The chemical spillage at meander bridge should be cleared as chemical wastes.  | The chemical spillage was cleared and the chemicals were placed on the tarpaulin sheet for subsequent use for road pavement by the Contractor as observed during follow-up audit session on 25/09/2024. |
|  | 11/09/2024<br>16/09/2024                            | The rubbish accumulated near the EA Zone should be cleared.  | The rubbish accumulated near the EA Zone have been cleared by the Contractor as observed during follow-up audit session on 25/09/2024.  |
| <b>Land<br/>Contamination</b>              | --  | No major environmental deficiency was identified during the reporting month.   | --  |
| <b>Landscape and<br/>Visual</b>            | --  | No major environmental deficiency was identified during the reporting month.   | --  |
| <b>Ecology</b>                             | 16/09/2024  | The green fences along the works area near the meander should be properly erected and maintained.  | The green fences along the works area near the meander has been properly erected and maintained by the Contractor as observed during follow-up audit session on 25/09/2024.                             |
|  | 16/09/2024  | The reinstatement works next to the Pond 12 should be carried out in phasing so that the maximum length of green fences along the pond can be maintained before the works. | Partial green fences have been properly erected by the Contractor before commencement of reinstatement works as observed during follow-up audit session on 25/09/2024.                                  |



| Parameters                     | Date       | Observations and Recommendations  | Follow-up  |
|--------------------------------|------------|---|--|
| <i>Fisheries</i>               | --         | No major environmental deficiency was identified during the reporting month.  | --   |
| <i>Permits/Licences</i>        | --         | No major environmental deficiency was identified during the reporting month.  | --   |
| <b>Contract No. YL/2020/02</b> |            |   |  |
| <i>Air Quality</i>             | --         | No major environmental deficiency was identified during the reporting month.  | --   |
| <i>Noise</i>                   | --         | No major environmental deficiency was identified during the reporting month.  | --   |
| <i>Water Quality</i>           | 4/09/2024  | The construction wastes which may block the water flow at the nullah should be cleared and not allowed.   | The construction wastes which may block the water flow at the nullah have been cleared by the Contractor as observed during the follow-up audit session on 11/09/2024.   |
|                                | 11/09/2024 | The leaking water pipe at DRL-P07 should be repaired to avoid leakage and a clear notice should be displayed to remind the frontline staff that directly discharge of site runoff is not allowed. | No further water leakage was observed and a clear notice has been displayed by the Contractor to remind the frontline staff that directly discharge of site runoff is not allowed as observed during follow-up audit session on 16/09/2024.  |
|                                | 11/09/2024 | The damage concrete bund at DRL-P07 should be repaired for flood protection.  | The concrete bunding has been erected for flood protection by the Contractor as observed during follow-up audit session on 16/09/2024.   |
|                                | 16/09/2024 | The concrete debris at the drainage channel at Fu Tai should be cleared.  | The concrete debris at the drainage channel have been cleared by the Contractor as observed during follow-up audit session on 25/09/2024.  |
|                                | 16/09/2024 | The gap between the concrete structure should be sealed to avoid the muddy surface runoff discharging out to the nearby drainage channel directly (Fu Tai Site).                                  | The gap between the concrete structure has been blocked with geotextile by the Contractor to avoid the muddy surface runoff discharging out to the nearby drainage channel directly as observed during follow-up audit session on 25/09/2024 |
|                                | 25/09/2024 | Sand bag bund should be deployed along the drainage channel to avoid the muddy surface runoff from getting into the drainage at near DRL-P02 & 03.  | Sand bag bund has been deployed along the drainage channel by the Contractor as observed during follow-up audit session on 2/10/2024.  |
|                                | 25/09/2024 | The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).   | Environmental deficiencies were observed not improved/ rectified by the Contractor in the reporting period. Follow up action is  |

| Parameters                         | Date       | Observations and Recommendations   | Follow-up  |
|------------------------------------|------------|--|--|
|                                    |            |  | needed in the next audit session.  |
| <i>Waste / Chemical Management</i> | 25/09/2024 | The domestic wastes should be properly disposed on site at near DRL-P05.                                       | The domestic wastes which were not disposed properly have been cleared by the Contractor as observed during the follow-up audit session on 07/10/2024. |
| <i>Land Contamination</i>          | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Landscape and Visual</i>        | 4/09/2024  | The construction materials at near the trees at RW6 should be cleared.   | The construction materials at near the trees have been cleared by the Contractor as observed during the follow-up audit session on 11/09/2024.         |
| <i>Ecology</i>                     | 11/09/2024 | The green fence at DRL-P07 should be properly erected and maintained.  | The green fence has been properly erected and maintained by the Contractor as observed during the follow-up audit session on 16/09/2024.               |
| <i>Fisheries</i>                   | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Permits/Licences</i>            | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <b>Contract No. YL/2021/01</b>     |            |  |  |
| <i>Air Quality</i>                 | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Noise</i>                       | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Water Quality</i>               | 9/09/2024  | The exposed soil area near the ELS and site exit at Grip Line E should be paved to avoid muddy surface runoff. | The exposed soil area has been paved by the Contractor to avoid muddy surface runoff as observed during follow-up audit on 16/09/2024.                 |
|                                    | 16/09/2024 | The bunding along the boundary of water-filled barriers at DDFB should be established.                         | Sand bag bund has been erected along the boundary of water-filled barriers by the Contractor as observed during follow-up audit on 23/09/2024.         |
| <i>Waste / Chemical Management</i> | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Land Contamination</i>          | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Landscape and Visual</i>        | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |
| <i>Ecology</i>                     | --         | No major environmental deficiency was identified during the reporting month.                                   | --   |

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| <b>Parameters</b>       | <b>Date</b> | <b>Observations and Recommendations</b>                                      | <b>Follow-up</b> |
|-------------------------|-------------|--|------------------|
| <i>Fisheries</i>        | --          | No major environmental deficiency was identified during the reporting month. | --               |
| <i>Permits/Licences</i> | --          | No major environmental deficiency was identified during the reporting month. | --               |

## **10 IMPEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES**

- 10.1 According to the EIA Report, EP and the 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 M**.
- 10.2 The compliance status of environmental mitigation measures related to the Project according to EP are summarised in **Table 10.1**.

**Table 10.1 Compliance Status of Related Environmental Mitigation Measures**

| EP Condition 2.7   | Status   | Completion Time  | Under Contract   | Remarks  |
|--|--|--|--|--|
| <b><u>Submission and Measures to Mitigate Ecological Impact</u></b>  |  |  |  |  |
| To reduce the ecological impact during construction and operation stages of the Project, a series of ecological mitigation measures shall be implemented as conforming to the relevant information and recommendations, including those described in Section 12.7 (Ecological Mitigation Measures), contained in the EIA Report. The key ecological mitigation measures shall include: |  |  |  |  |
| (a) conducting pre-construction search for any otter holts/dens and herpetofaunal species of conservation concern in construction sites, with remedial measures such as setting of no works area around otter holts/den and translocation of important species identified, if any;   | Completed  | November 2018  | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             | No otter holts/dens and herpetofauna species of conservation concern were identified.  |
|  |  | July 2021  | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works |  |
| (b) creating and establishing an Ecological Area, approximately 12.78 ha. in size, containing reed marsh and marsh habitat prior to total clearance of reed marsh in the Loop, including a lowrise building buffer zone of 50m width from the Ecological Area, with appropriate screenplanting;  | Completed (for creating and establishing an Ecological Area) | Dec 2022   | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             | Ecological monitoring survey in the EA Zone during the 12-month establishment (1st January 2021 - 31st December 2021) and further 12-month establishment periods (1st January 2022 – 31st December 2022).<br>The records of a key mammal, all six key bird, one key herpetofauna and three key dragonfly species, as well as the breeding nests of birds and other species of conservation importance demonstrate the positive attractiveness of this established EA Zone in Lok Ma Chau Loop. |
|  |  | Not Completed (for lowrise building buffer zone of 50m width from the Ecological Area, with appropriate screenplanting;) |  | Operation phase ecological mitigation measure  |

| EP Condition 2.7   | Status        | Completion Time | Under Contract   | Remarks  |
|--|---------------|-----------------|--|--|
| (c) stabilising the bank of the old Shenzhen River meander of the Loop, approximately 3.5 km long, including re-vegetation upon completion of the works and various ecological designs, such as practicability of installation of otter holts and provision of potential feeding area and spraint locations for otters in the stabilised bank; | Not Completed |                 |  | To be implemented under Main Works Package 1                                       |
| (d) creating a 23 m minimum width vegetated setback at the edges of the Loop along the southwestern and north-eastern sections of the meander;   | Not Completed |                 |  | Operation phase ecological mitigation measure                                      |
| (e) installing 3m-high olive green fence around construction areas to allow or deter different animal passages where appropriate;  | Completed     | Dec 2020        | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             |  |
|  | On-going      |                 | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works | The Contractor was reminded to maintain the green fence around construction areas. |

| EP Condition 2.7   | Status   | Completion Time        | Under Contract   | Remarks  |
|--|--|------------------------|--|--|
| (f) providing (i) permanent compensatory off-site wetland areas; and (ii) construction stage temporary compensatory off-site wetland areas during various construction stages of the Project, in advance of any corresponding wetland loss;  | Completed  | Oct 2022               |  | To mitigate the potential indirect and indirect construction disturbance of the LMC Loop Project (including the WCR); in which specific habitat features to promote their user by Eurasian Otter has been constructed, including the establishment of wetlands, otter holts, floating platforms, and rock platforms. Ecological monitoring survey in the OWCA during the 12-month establishment (October 2022 – October 2023). |
| (g) providing at least 0.4 ha woodland compensation area by planting trees and shrubs near Horn Hill, to compensate for the loss of woodland affected by the Western Connection Road (WCR) and other works of the Project;   | Completed  | May 2024               | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works |  |
| <b><u>EP-477/2013/A</u></b><br>(h) carrying out outside dry-season (from November to February next year), the construction works associated with the site formation in the Ecological Area, stabilization of the bank of the old Shenzhen River meander, Western Connection Road along Ha Wan Tsuen Road, to minimise disturbances to migratory birds/water birds; | Completed (the construction works associated with the site formation in the Ecological Area) | Dec 2020               | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             |  |
| <b><u>EP-477/2013/B</u></b><br>(h) carrying out outside dry-season (from November to February next year), the construction works associated with the site formation in the Ecological Area and stabilization of the bank of the old Shenzhen River meander, to minimise disturbances to migratory birds/water birds;   | Not Completed (stabilization of the bank of the old Shenzhen River meander)                  |                        |  | To be implemented under Main Works Package 1   |
|  | Completed (Western Connection Road along Ha Wan Tsuen Road)                                  | Until 28 December 2023 | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works |  |

| EP Condition 2.7  | Status    | Completion Time | Under Contract   | Remarks  |
|---|-----------|-----------------|--|--|
| <p><b><u>EP-477/2013/A</u></b><br/>(i) using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;</p> <p><b><u>EP-477/2013/B</u></b><br/>(i) using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander (except the Meander Bridge) and other identified important ecologically sensitive areas, if any;</p> | On-going  |                 | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works | Site wide implementation. Restriction zone at 25m from the EA zone and 23m from the Meander according to approved HCMP (May 2022 (Issue 3)). |
| (j) prohibiting use of direct lighting on the old Shenzhen River meander and controlling nighttime lighting to reduce potential ecological impact;  | Completed | Dec 2020        | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             |  |
|   | On-going  |                 | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works | Site wide implementation.  |
| (k) implementing measures to minimise magnitude of construction runoff and to avoid/minimise the potential impact of spillage events, if any; and   | Completed | Dec 2020        | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             |  |
|   | On-going  |                 | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works | Site wide implementation.  |



| EP Condition 2.7  | Status  | Completion Time | Under Contract   | Remarks                                       |
|---|---|-----------------|--|---|
| (l) using opaque noise barriers along the proposed roads and using appropriate glass and façade treatment for buildings in the Loop to minimise the mortality of fast-moving wildlife (e.g. birds). | Completed (for temporary noise barriers)  | July 2021       | Development of Lok Ma Chau Loop – land decontamination and advance engineering works             |   |
|   | Completed (for temporary noise barriers)  | July 2022       | Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works |   |
|   | Not Completed (for Operation Stage Noise barriers and using appropriate glass and façade treatment for buildings in the Loop) |                 |  | Operation phase ecological mitigation measure |

| EP Condition 2.7   | Status           | Completion Time           | Under Contract  | Remarks |
|--|------------------|---------------------------|---|---------|
| <p>Four hard copies and two electronic copies of an Ecological Mitigation / Habitat Creation and Management Plan shall be, at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director. The Plan(s) shall show the design details, locations, implementation programme, maintenance and management schedules, and drawings in the scale of 1:1,000 or other appropriate scale of the ecological mitigation measures of the Project. Before submission to the Director, the Plan(s) shall be certified by the ET Leader and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report. All measures recommended in the finalised submission(s) under this Condition shall be fully and properly implemented.</p> | <p>Completed</p> | <p>May 2022 (Issue 3)</p> | <p>Development of Lok Ma Chau Loop – land decontamination and advance engineering works</p>             |         |
|  |                  | <p>Nov 2021 (Issue 4)</p> | <p>Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works</p> |         |

| EP Requirements  | Compliance Status | Remarks   |
|--|-------------------|---|
| <b>Submissions or Measures to be implemented for Construction of the Project</b>   |                   |   |
| EP Condition 2.9 To mitigate construction stage noise impact, the following noise mitigation measures shall be implemented during the construction stage of the Project:   |                   |   |
| (a) temporary noise barriers shall be installed along the construction access roads to screen the construction traffic noise and noisy construction activities and equipment during different construction stages of the Project as described in Table 1 and Figures 2a, 2b, 3a and 3b of this Permit;   | Yes               | The temporary noise barriers (TNBs) along LMC Road were completed under the Contract in October 2021 (Figures 2a and 2b of EP-477/2013/B). ( <b>Appendix N</b> )<br>The TNBs installation under Contract 2 were completed in August 2022 (Figures 3a and 3b of EP-477/2013/B). ( <b>Appendix N</b> )<br>Due to the updated site condition, TNB5 deems to serve the function of TNB16 before the commencement of road widening works of the Western Connection Road.   |
| (b) use of movable noise barriers, noise enclosures and quiet powered mechanical equipment for the noisy construction activities and equipment as described in Table 1 and with reference to the typical designs as shown in Figure 4 of this Permit;  | Yes               | -   |
| (c) concrete lorry mixer(s) shall be operated at least 25 m away from the noise sensitive receivers (NSRs) No. HWTR-6 and HWTR-11 at the Western Connection Road as shown in Figures 2b and 3b as described in Table 1 of this Permit to avoid exceedance due to cumulative construction noise; and  | Yes               | -   |
| (d) no percussive piling nor blasting by explosive shall be implemented in the Project.  | Yes               | -   |
| EP Condition 2.10 To Mitigate Construction Stage Fisheries Impact  |                   |   |
| For some fish ponds which will be partly affected by construction works, to mitigate construction stage fisheries impacts, a layer of sheet pile/barrier wall shall be erected to separate the works area from the remaining areas of the affected fish ponds before the commencement of other construction works, e.g. excavation or filling within the works area. The sheet pile/barrier wall shall be constructed by non-percussive piling method (e.g. Press-in method) to reduce the fisheries impact. In addition, the sheet pile/barrier wall shall have impermeable lining to minimise water loss from the fish pond to the works area. | Not applicable    | Based on the ground truthing during the weekly site inspections / site visits prior to the commencement of the works at all Ponds, no fisheries impacts were anticipated due to the following observation: <ul style="list-style-type: none"> <li>• No aquaculture activities include drying of ponds, reprofiling, harvesting and feeding;</li> <li>• No evidence of recently used pond culture equipment;</li> <li>• No presence of fish-rearing paraphernalia and</li> <li>• No evidence of trimming of vegetation growing on pond bund.</li> </ul> As such, the erection of sheet |

| EP Requirements  | Compliance Status | Remarks   |
|--|-------------------|---|
|  |                   | pile/barrier wall to mitigate construction stage fisheries impacts as stated in Condition 2.10 of the EP would not be applicable.<br>The photographic records of Ponds in September 2024 are shown in <b>Appendix S</b> . |
| EP Condition 2.12 To Mitigate Construction Stage Water Quality Impact  |                   |   |
| To reduce sediment transport arising from the stabilisation works at the bank of the old Shenzhen River meander of the LMC Loop, cofferdam/diaphragm wall and/or silt curtain system shall be deployed to surround the works area, from water surface down to the bottom of the meander, in order to minimise the sediment loss to the water body outside the works areas.   | Yes               | Silt curtain system was deployed to surround the works area under YL/2020/01.   |
| EP Condition 2.14 To Minimise the Disturbance to the Reedbed System of MTR LMC Spurline  |                   |   |
| For the construction of the Direct Link, the existing reeds in the reedbed system of the MTR LMC Spurline shall not be removed by the construction works of the Project, except for the 2 areas with a total area of approximately 320 m <sup>2</sup> in size within the Reedbed No. 3 as shown in Figure 5 of this Permit. Upon the completion of works at the reedbed system, the affected reedbed system shall be reinstated. | Yes               | These measures have been implemented under YL/2020/02.  |

Remark: N/A – Not fulfilled yet

### Ecological Mitigation Measures – Offsite Wetland Compensation Areas (OWCAs)

- 10.3 According to the EIA Report, habitat loss and disturbance impacts are predicted for both construction and operation phase of the development of Lok Ma Chau Loop. All these impacts are expected to be compensated both temporarily (during construction phase) and permanently (during operation phase). Among other measures identified from EIA report to avoid, minimize and compensate for identified impacts, three areas of existing fishpond habitat (Areas 2, 7 and 9) were proposed in the EIA Report to provide OWCAs.
- 10.4 These Areas are located within a Priority Site for Enhanced Conservation, namely "Deep Bay wetlands outside the Ramsar site". Many of these fishponds are currently participating in the Nature Conservation Management Agreement Scheme in the Northwest New Territories, which has the objective of restoring and enhancing the conservation value of commercial fishponds in the area. In general, the activities involved in the establishment of OWCAs are in nature the same as those associated with commercial fishpond management currently taking place in the area. Therefore, there are no direct implications for the ecological impacts at OWCAs according to Section 12.7.9 of EIA report.
- 10.5 Under EP, an Ecological Mitigation/ Habitat Creation and Management Plan (HCMP) is required for all habitat compensation measures required by the Project EIA. The OWCAs are established according to the HCMP which provides a framework and specifications for development and management of the OWCAs.

- 10.6 The OWCA (Areas 2, 7 and 9) has been substantially completed and the starting date of establishment period is confirmed by AFCD on 14<sup>th</sup> October 2022.
- 10.7 According to Section 6.1.2 of approved HCMP, the monitoring of the OWCA have been commenced for the establishment period starting from 14<sup>th</sup> October 2022. The Environmental Team would undertake the monitoring role through relevant EIAO Documents, audit mechanisms, participation at meetings, as well as certification of results and reports according to EM&A Manual, Section 11.5. The Monthly Monitoring and Management Report for OWCA would be submitted by the Ecologist under YL/2020/01 separately.

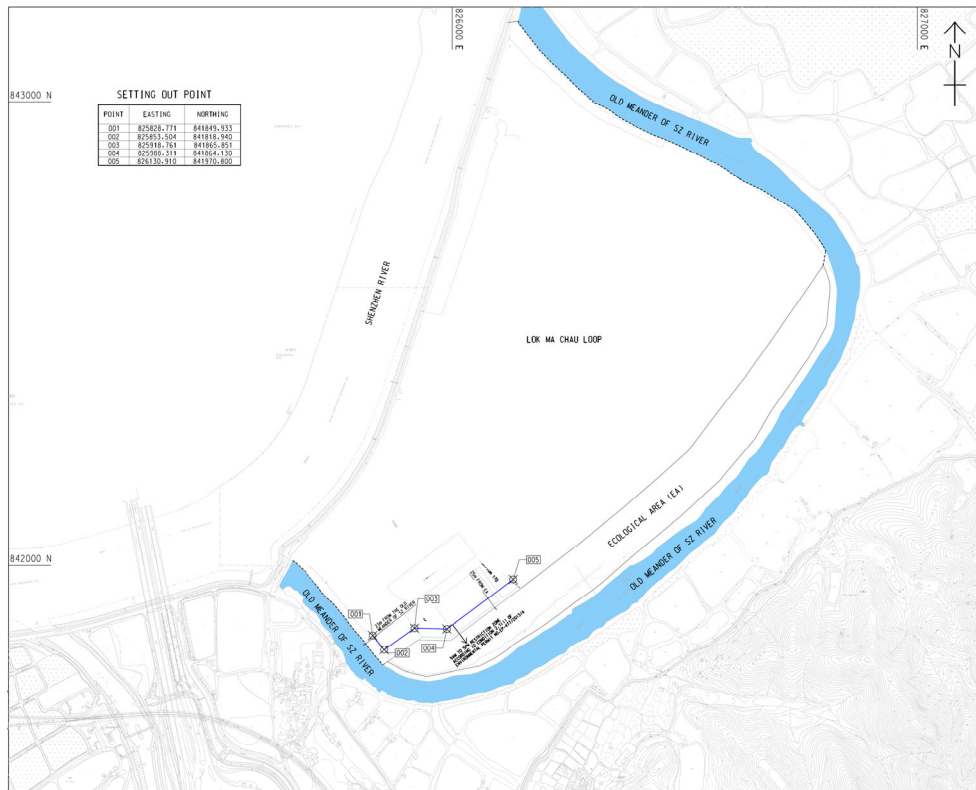
**Ecological Mitigation Measures – Installation of 3m-high Olive Green Fence**

- 10.8 The green fence around the future Ribbon Park Reedbed has been removed and replaced by the hoarding due to the other project’s land occupier since March 2022. (See Figure & photo below)



- 10.9 Installation of the green fence alongside the Ecological Area and the Meander was

proposed and completed on 20<sup>th</sup> May 2022. The layout plan of the green fence installation is shown below: -



10.10 The Contractor was reminded to maintain the green fence around construction areas and ensure no disturbance to the exiting trees and reed marsh habitat subject to the latest situation of LMC Loop.

**11 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)****Summary of Exceedances**

11.1 Summary of exceedances is provided in **Appendix K**.

11.2 No Action/Limit Level exceedance was recorded for air quality monitoring, construction noise and water quality monitoring.

**Summary of Environmental Complaint**

11.3 No environmental complaint was received in the reporting month. The statistical summary table of the environmental complaints is presented in **Table 11.1** and the details and status of the investigation are presented in Complaint Log as attached in **Appendix P**.

**Table 11.1 Statistical Summary of Environmental Complaints**

| Reporting Period    | Environmental Complaint Statistics |            |                           |
|---------------------|------------------------------------|------------|---------------------------|
|                     | Frequency                          | Cumulative | Project related complaint |
| Jan 2019 – Aug 2024 | 28                                 | 28         | 1                         |
| Sep 2024            | 0                                  |            | 0                         |

**Summary of Notification of Summons and Successful Prosecutions**

11.4 There was no prosecution or notification of summons received since the commencement of the Project. The statistical summary table of the summons and prosecution are presented in **Tables 11.2** and **11.3** respectively. Summary of successful prosecution as attached in **Appendix Q**.

**Table 11.2 Statistical Summary of Environmental Summons**

| Reporting Period    | Environmental Summons Statistics |            |                        |
|---------------------|----------------------------------|------------|------------------------|
|                     | Frequency                        | Cumulative | Project related summon |
| Jan 2019 – Aug 2024 | 0                                | 0          | 0                      |
| Sep 2024            | 0                                |            | 0                      |

**Table 11.3 Statistical Summary of Environmental Prosecution**

| Reporting Period    | Environmental Prosecution Statistics |            |                             |
|---------------------|--------------------------------------|------------|-----------------------------|
|                     | Frequency                            | Cumulative | Project related Prosecution |
| Jan 2019 – Aug 2024 | 0                                    | 0          | 0                           |
| Sep 2024            | 0                                    |            | 0                           |

## 12 FUTURE KEY ISSUES

### Key Issues in the Coming Months

12.1 Major site activities for the coming reporting months will include:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) WCR for 5 & 7 (Area 1), retaining Wall, slope Work, drainage
- (b) Meander Bridge South and Middle Spans Construction
- (c) Road L1 Drainage and UU enabling works
- (d) HWT Pai Lau Finishing Works
- (e) Box Culvert A1 Outfall Portion Construction
- (f) Wetland Fence Construction
- (g) PT1 drainage works

Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

- (a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A.

DRL:

- (a) Temporary works.
- (k) Bored Pile works.
- (l) Sheet piling works.
- (m) ELS works.
- (n) Segment precast.
- (o) Pier construction.
- (p) Construction of pile cap.
- (q) Pre-drill works.
- (r) Construction of Base Slab.
- (s) Pierhead segment erection.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.



- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) Underground utilities works.
- (i) Construction of noise barrier.
- (j) Construction of box culvert.
- (k) Construction of retaining wall.
- (l) Construction of concrete structure.
- (m) Carpark traffic diversion works.

Fanling Highway:

- (a) Construction of retaining wall.
- (b) Pier construction.
- (c) Installation of pierhead segment.
- (d) Backfilling works for retaining wall.
- (e) Sheet-piling works for retaining wall.
- (f) Full span erection.
- (g) Fabrication of precast segment.
- (h) Installation of parapet at retaining wall.
- (i) Construction of subway.

Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

- (a) LMC Station Structural Steel Materials Delivery
- (b) LMC Station Strengthening Works
- (c) ELS Works and Pile Caps & Tie Beam Construction at Elevated PTI and Double deck Footbridge
- (d) Elevated PTI Superstructure Construction

12.2 Dust can be generated during construction works and exposed site area in the upcoming dry season. To prevent high dust concentrations, the Contractor should pay attention on the air quality mitigation measures as far as practicable to minimise the dust impact to the villages which are located adjacent to the Project works. The Contractor was also reminded to follow the Project Implementation Schedule in the approved EIA report / EM&A Manual to implement appropriate dust control measures including “watering in all works areas once per hour during working hours to control fugitive dust impact, particularly during dry weather and covering any excavated or stockpile of dusty material by impervious sheets and spraying all dusty material with water immediately prior to any

loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas” as well as the relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation such that no adverse dust impact would arise from the Project works.

- 12.3 The Contractor is also recommended to maintain the water quality mitigation measures if necessary according to the updated construction site drainage plan. 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 site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. Efficient silt removal facilities shall deploy to ensure all treated effluent from wastewater treatment plant shall meet the requirements as stated in WPCO licences and drainage facilities shall be not be clogged with sediment to avoid overflow during rainy season. The site drainage plan shall also be updated based on the site condition and construction programme.
- 12.4 Ecology is also one of the key environmental issues during construction of the Project. Noise pollution has a negative impact on wildlife species by reducing habitat quality. Therefore, noise mitigation measures such as using quiet plants and noise barriers should be in place, where applicable. The Contractor should properly maintain the temporary noise barriers by frequently checking and maintaining the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary. Moreover, the fencing used for the site boundary and as a visual barrier during the construction phase shall also be properly maintained at 3m high and of a dull or olive green colour, in order to minimise visual impact as this fencing is to shroud the most visible human activity (movement of persons and vehicles) from adjacent wetland areas. All ecological mitigation measures recommended in the Project Implementation Schedule in EP / approved EIA report / EM&A Manual should be properly implemented and maintained as far as practicable.

### **Monitoring Schedule for the Next Month**

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

### **Construction Programme for the Next Month**

- 12.6 Tentative construction programmes are provided in **Appendix A**.

### 13 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

- 13.1 The EM&A Report presents the EM&A works undertaken in September 2024 in accordance with EM&A Manual.

#### Air Quality

##### *1-hour TSP Monitoring*

- 13.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

##### *24-hour TSP Monitoring*

- 13.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

#### Construction Noise

- 13.4 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

#### Water Quality

- 13.5 All water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

#### Ecological Monitoring

##### LMC Loop

##### *Avifauna (Flight Line Survey)*

- 13.6 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone. It demonstrates that the large waterbirds prefer using the flight line corridor above the LMC Meander and EA Zone.

##### *Mammals*

- 13.7 According to Clause 11.4.1.2 of the EM&A Manual, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier.
- 13.8 In addition, the 12-month establishment period of EA zone has been completed. The mammals monitoring in the Loop was therefore temporarily suspended in the reporting month and will be resumed subject to the site condition.

Western Connection Road*Avifauna (Flight Line Survey)*

- 13.9 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone. It demonstrates that the large waterbirds prefer using the flight line corridor above the LMC Meander and EA Zone.

*Avifauna (Pond 12)*

- 13.10 Avifauna survey at Pond 12 was conducted as scheduled in the reporting month. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

*Herpetofauna*

- 13.11 Herpetofauna survey was conducted as scheduled in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. However, no significant impact of construction activities on this species was observed.

*Aquatic fauna*

- 13.12 Aquatic fauna survey was conducted as scheduled in the reporting month. No significant impact of construction activities on the stream was observed.

Land Contamination

- 13.13 Decontamination for five arsenic-contaminated zones (LD01 - LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the EP under Contract No. YL/2017/03.
- 13.14 No work related to land contamination was conducted in the reporting month.

Environmental Site Inspection

- 13.15 Environmental site inspections were conducted on 2<sup>nd</sup>, 4<sup>th</sup>, 9<sup>th</sup>, 11<sup>th</sup>, 16<sup>th</sup>, 23<sup>rd</sup>, 25<sup>th</sup> and 30<sup>th</sup> September 2024 by ET in the reporting month.

Environmental Complaints, Summons and Prosecutions

- 13.16 No environmental complaint was received in the reporting month.
- 13.17 No notification of summons or successful prosecution was received in the reporting month.
- 13.18 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

13.19 According to the environmental audit performed in the reporting month, the following recommendations were made:

### *Air Quality Impact*

- To provide the dust suppression measures such as water spraying on all haul roads, exposed work site areas and dust generation works;
- To provide and maintain impervious materials to cover the stockpiles of dusty materials or erecting dust screen for the work site near public road;
- To design, establish and properly use the wheel washing facilities at the site exits;
- To pave the site exits / entrances;
- To keep maintain machinery to prevent emission of black smoke; and
- To inspect NRMM labels which should be displayed for all regulated machines.

### *Noise Impact*

- To inspect the noise sources inside the site;
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers; and
- To provide and maintain properly temporary noise barriers or other appropriate sound reduction measures for operations of noisy equipment and breaking works near the noise sensitive receivers, if necessary.

### *Water Impact*

- To properly deploy and check regularly the silt curtain, ensure the works area are completely surrounded, and prevent any surface runoff discharge into the old Shenzhen River meander or stream;
- To establish, review and implement temporary drainage system to appropriate collection pit and demonstrate the effectiveness of the drainage system;
- To identify any wastewater discharges from site and review the implemented water quality mitigation measure to avoid any water quality impact to the nearby sensitive receivers;
- To provide maintenance on any leaking hoses to prevent water leakage;
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharged, and block out erosion channel to avoid directly muddy surface runoff outside the site boundary;
- To provide and enhance the protection and bunding around the storage area for excavated materials;
- To review the capacity of de-silting facilities for discharge and update maintenance records of wastewater treatment facilities;
- To ensure the drainage facilities are probably protected and maintained;
- To maintain the cover for the exposed slope surfaces by tarpaulin or other means;
- To designate the area for wheel washing and set up the associated drainage for water from a wheel wash;
- To pave the exit points and ensure vehicles leaving the site are free from debris of dirt;
- To implement the effective water quality mitigation measures according to the site drainage plan, and review the site drainage plan measures as appropriate;
- To regularly clear any floating vegetation at the meander to ensure a good flow of water, and floating rubbish within the silt curtain to avoid rubbish accumulation;
- To clear construction waste at the nullah; and

- To clear the deposited mud, broken bricks and debris on the public roads or near the streams.

#### *Ecology Impact*

- To maintain properly the 3m high olive-green fence around the construction site and along the works of meander bridge;
- To provide and maintain visual barrier along Ha Wan Tsuen Road, and properly erect the water-filled barriers along the site boundary in vicinity of the habitat;
- To ensure the powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;
- To prevent any surface runoff discharge into the stream, further enhance and secure the existing mitigation measures so as to prevent debris and runoff from discharging into nearby nullah;
- The animal tunnel / passage should be free of obstruction and maintained to enhance its effectiveness; and
- To remove the handrails placed near the trees / vegetation or outside the site boundary.

#### *Waste/Chemical Management*

- To check for any accumulation of waste materials or rubbish on site and remove them promptly;
- To provide appropriate receptacles to ensure proper disposal of wastes on site;
- To avoid disposal of construction waste into the stream;
- To carry out inspection of dump trucks at site exit to ensure inert and non-inert C&D materials are properly segregated before delivering off site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment and the site;
- To clear any oil spillage in the site area;
- To maintain the drip tray well and/or provide tarpaulin sheet properly for equipment to prevent oil and chemical leakage; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

#### *Landscape and Visual*

- To erect and properly maintain the protection fencing and tree protection zone around the preserved trees; and
- To avoid placing construction materials within the tree protection zone.

#### *Noise Impact*

- To display updated Environmental Permits at conspicuous locations.

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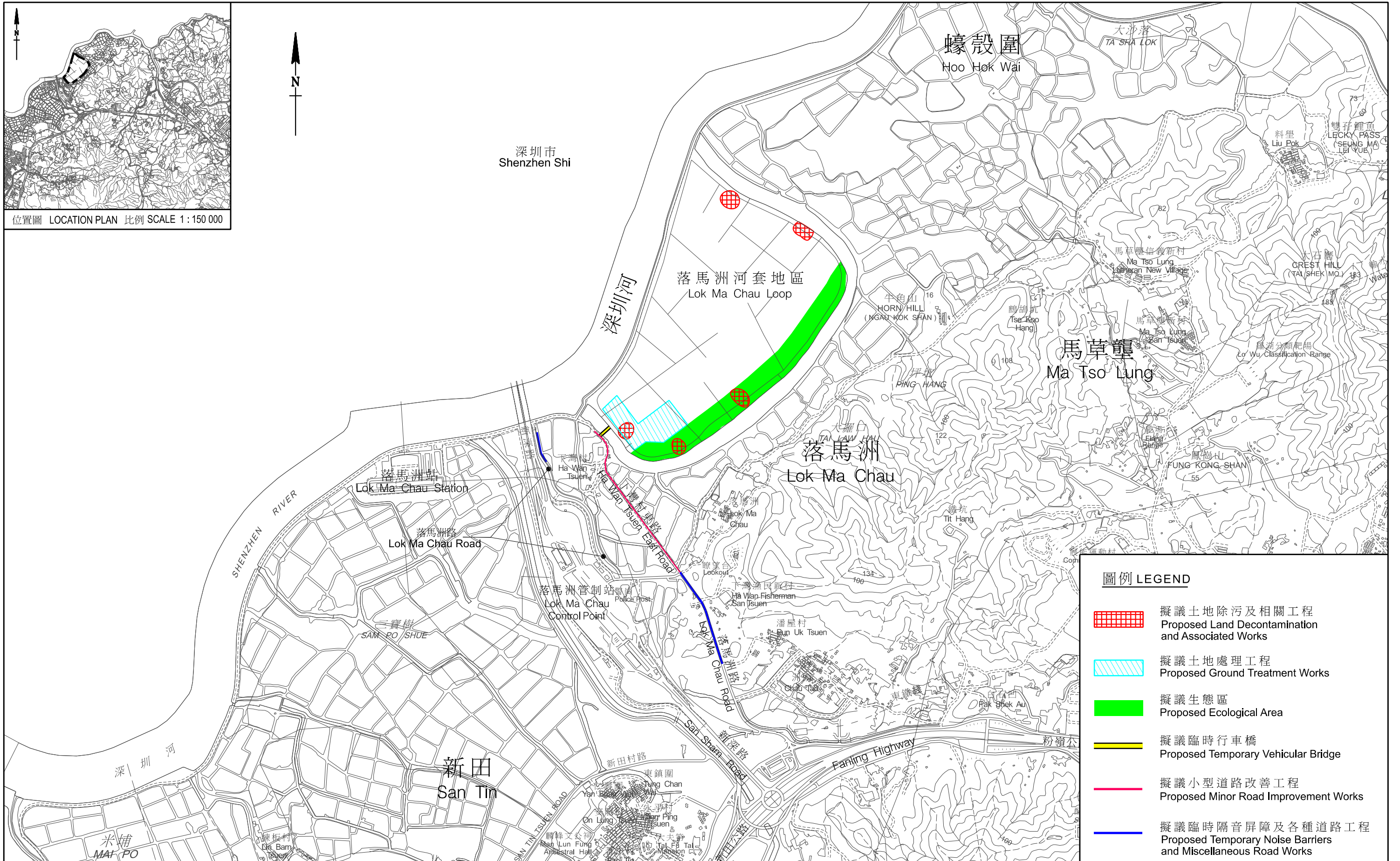
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**FIGURE(S)**

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工務計劃項目第748CL號—落馬洲河套地區發展：土地除污及前期工程  
 PWP ITEM No. 748CL-DEVELOPMENT OF LOK MA CHAU LOOP :  
 LAND DECONTAMINATION AND ADVANCE ENGINEERING WORKS

FIGURE 1 a  
 LAYOUT PLAN

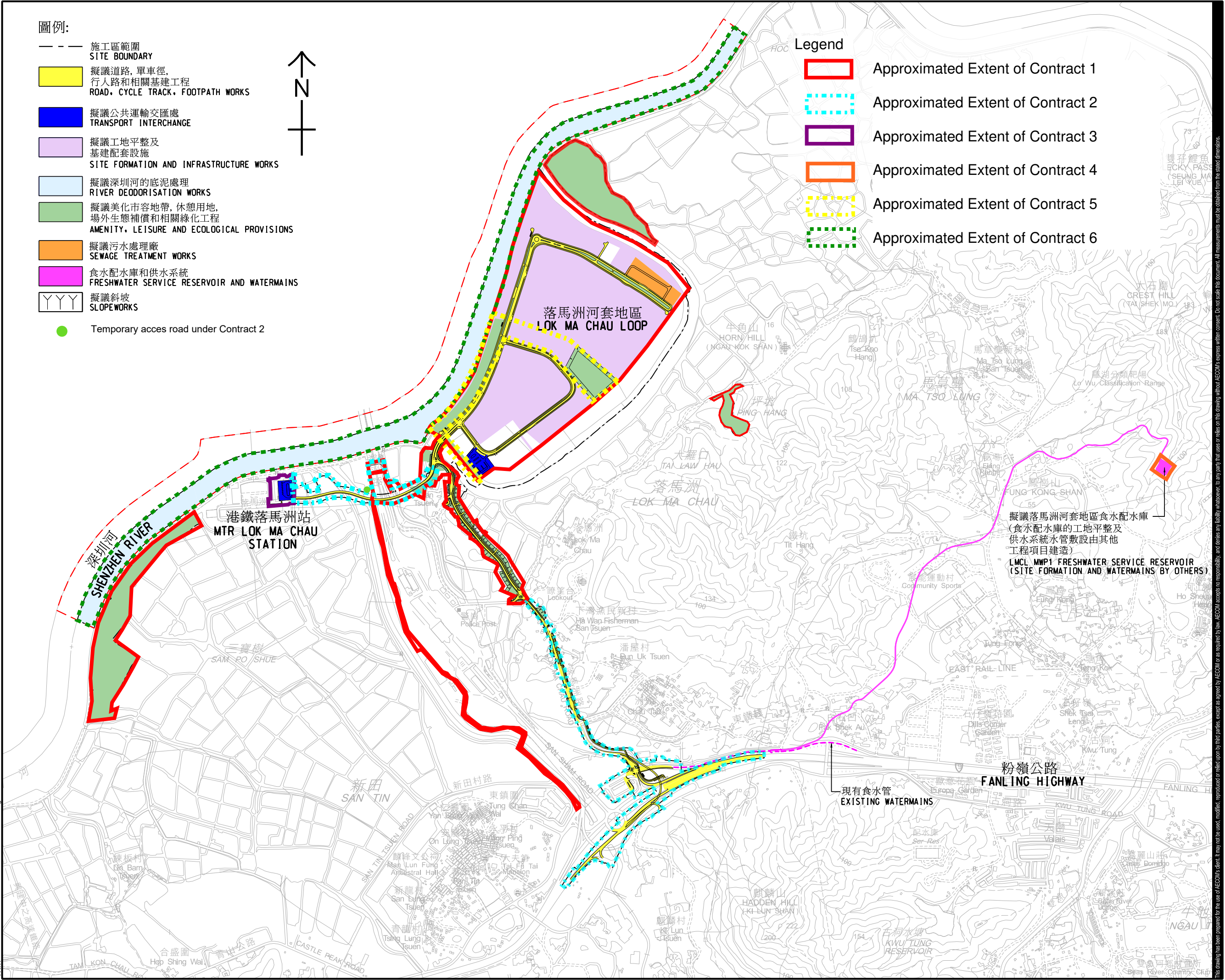


ISO A1 594mm x 841mm  
 Approved:  
 Checked:  
 Designer:  
 Project Management Initials:  
 5/12/2020  
 PATH PROJECTS\60588085\DRAWING\SKETCH\SK0099.dgn  
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- 圖例:**
- 施工區範圍  
SITE BOUNDARY
  - 擬議道路, 單車徑, 行人路和相關基建工程  
ROAD, CYCLE TRACK, FOOTPATH WORKS
  - 擬議公共運輸交匯處  
TRANSPORT INTERCHANGE
  - 擬議工地平整及基建配套設施  
SITE FORMATION AND INFRASTRUCTURE WORKS
  - 擬議深圳河的底泥處理  
RIVER DEODORISATION WORKS
  - 擬議美化市容地帶, 休憩用地, 場外生態補償和相關綠化工程  
AMENITY, LEISURE AND ECOLOGICAL PROVISIONS
  - 擬議污水處理廠  
SEWAGE TREATMENT WORKS
  - 食水配水庫和供水系統  
FRESHWATER SERVICE RESERVOIR AND WATERMANS
  - 擬議斜坡  
SLOPEWORKS
  - Temporary access road under Contract 2



- Legend**
- Approximated Extent of Contract 1
  - Approximated Extent of Contract 2
  - Approximated Extent of Contract 3
  - Approximated Extent of Contract 4
  - Approximated Extent of Contract 5
  - Approximated Extent of Contract 6



**PROJECT**  
 DEVELOPMENT OF  
 LOK MA CHAU LOOP  
 MAIN WORKS PACKAGE 1  
 DESIGN AND  
 CONSTRUCTION

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

**CONSULTANT**  
 AECOM Asia Company Ltd.  
 www.aecom.com

**SUB-CONSULTANTS**  
 分列工程顧問公司

**ISSUE/REVISION**

| NO. | DATE | DESCRIPTION | CHK. |
|-----|------|-------------|------|
|     |      |             |      |
|     |      |             |      |
|     |      |             |      |
|     |      |             |      |
|     |      |             |      |

**STATUS**

| NO. | DATE | DESCRIPTION | CHK. |
|-----|------|-------------|------|
|     |      |             |      |
|     |      |             |      |
|     |      |             |      |
|     |      |             |      |

**SCALE**  
 1:8000

**DIMENSION UNIT**  
 METRES

**KEY PLAN**  
 索引圖

**PROJECT NO.**  
 60588085

**CONTRACT NO.**  
 CE 5/2018(CE)

**SHEET TITLE**  
 落馬洲河套地區發展 -  
 第一期主體工程 -  
 工程平面圖 (圖一)  
 PROJECT LAYOUT (Figure 1b)

**SHEET NUMBER**  
 60588085/SK0099



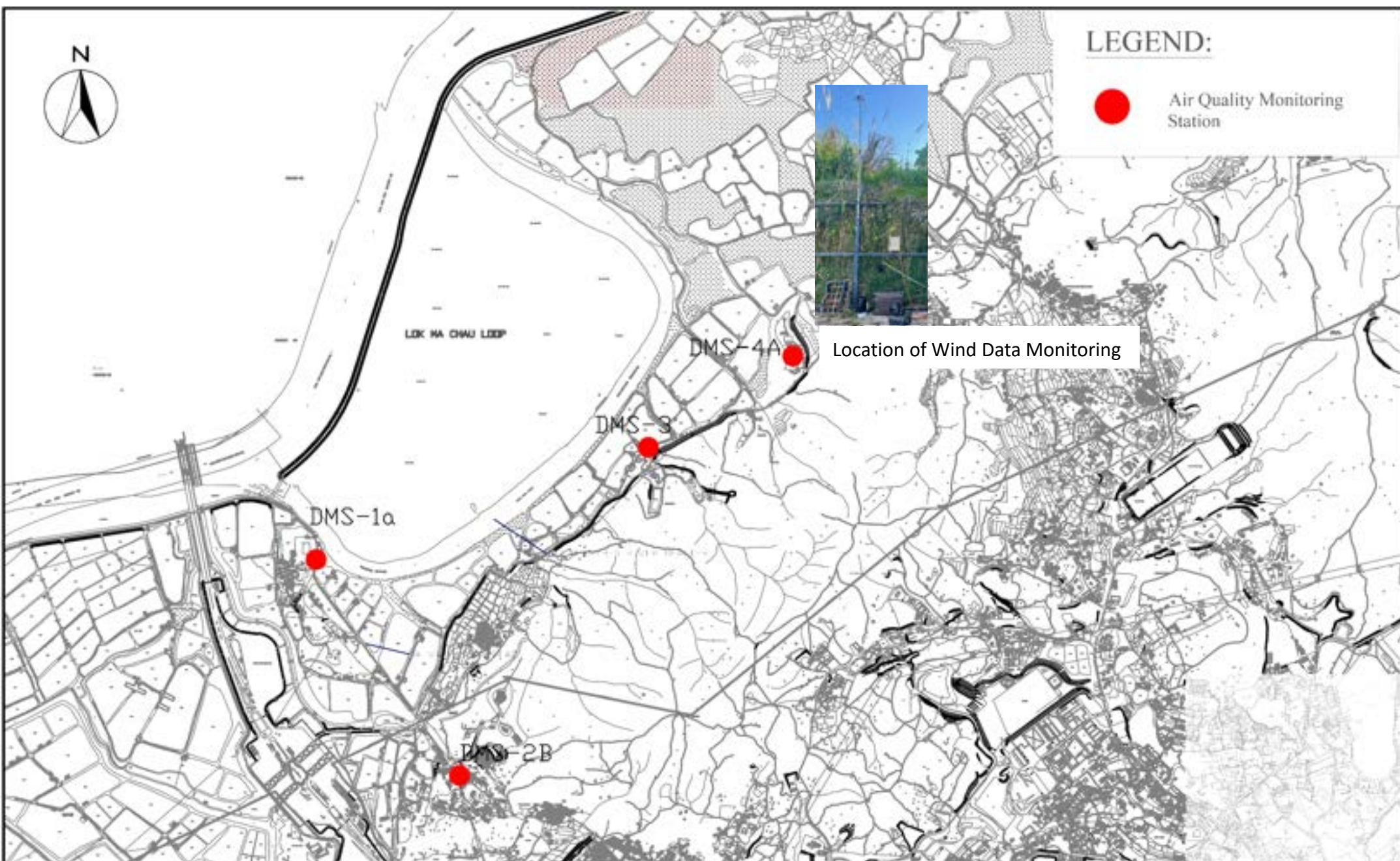


**LEGEND:**

 Air Quality Monitoring Station



Location of Wind Data Monitoring



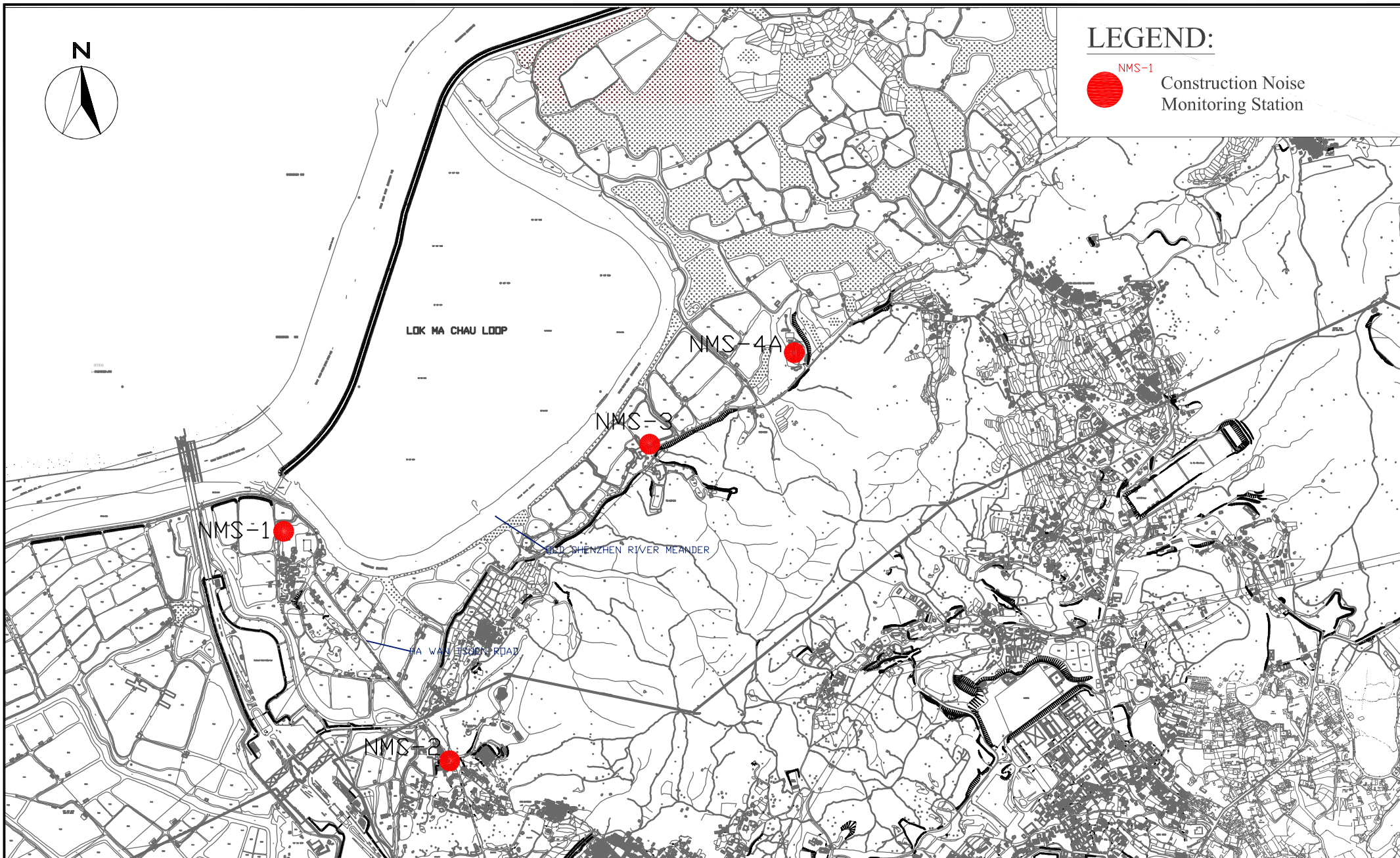
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| JOB No. | WMA21009 | FIGURE NO. | Fig 2    |
|         |          | REV        | -        |



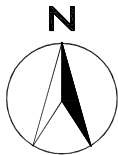


### LEGEND:

NMS-1  
 Construction Noise Monitoring Station

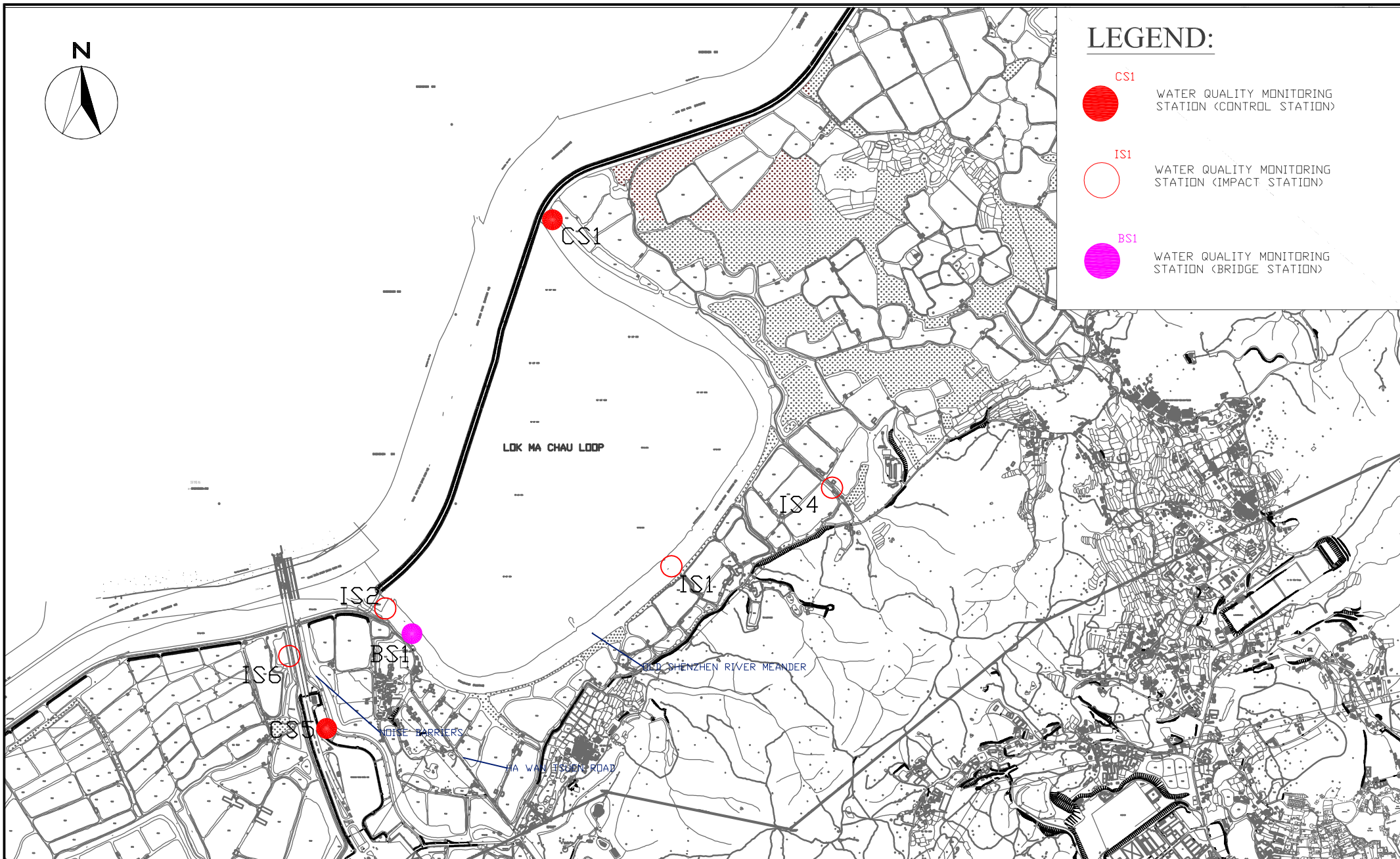


|         |           |            |          |
|---------|-----------|------------|----------|
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| JOB No. | WMA 21009 | FIGURE NO. | Fig 3    |
|         |           | REV        | -        |



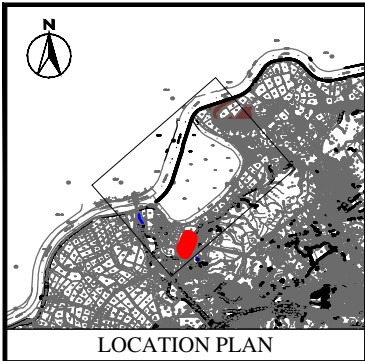
### LEGEND:

- CS1 WATER QUALITY MONITORING STATION (CONTROL STATION)
- IS1 WATER QUALITY MONITORING STATION (IMPACT STATION)
- BS1 WATER QUALITY MONITORING STATION (BRIDGE STATION)

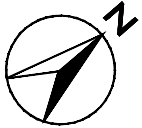
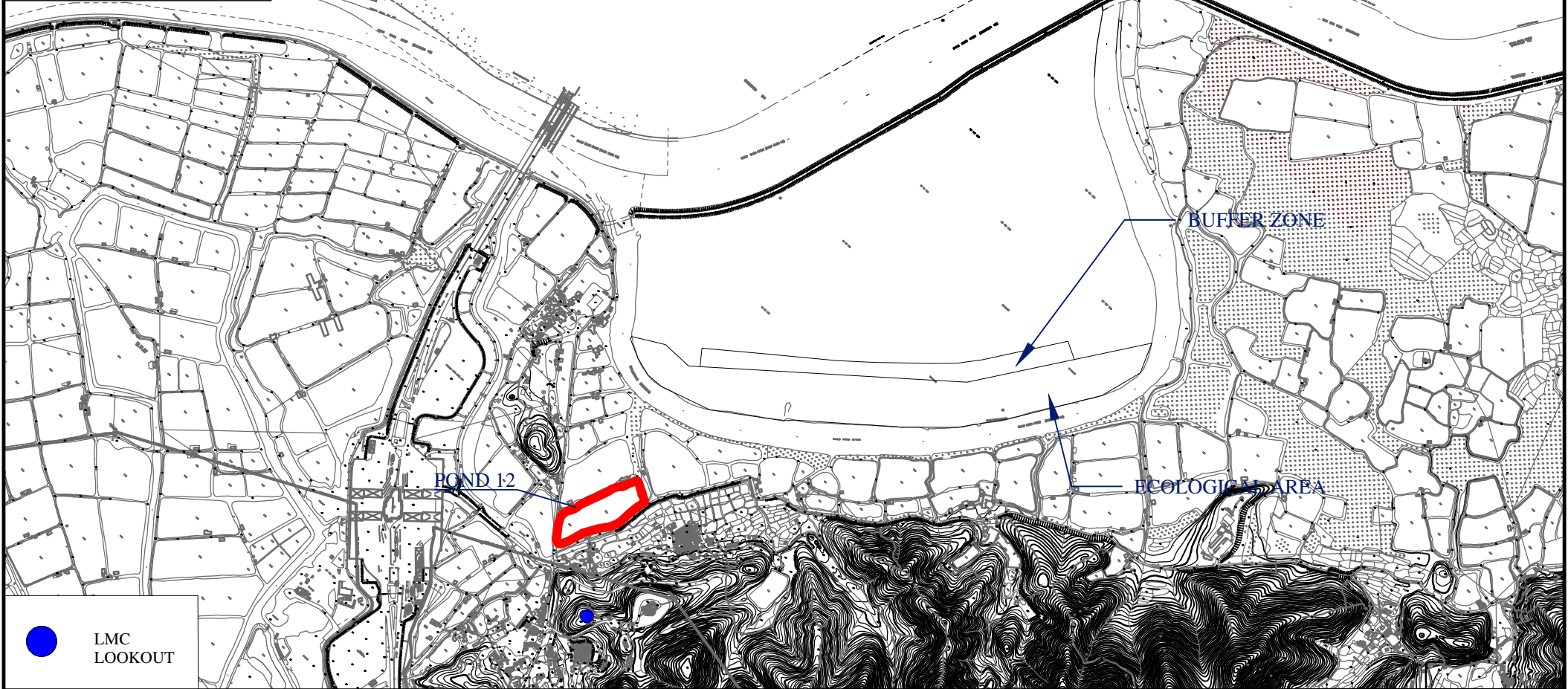


|         |           |            |          |
|---------|-----------|------------|----------|
| SCALE   | 1:400 A4  | DATE       | May 2021 |
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| JOB No. | WMA 21009 | FIGURE NO. | Fig 4    |
|         |           | REV        | -        |



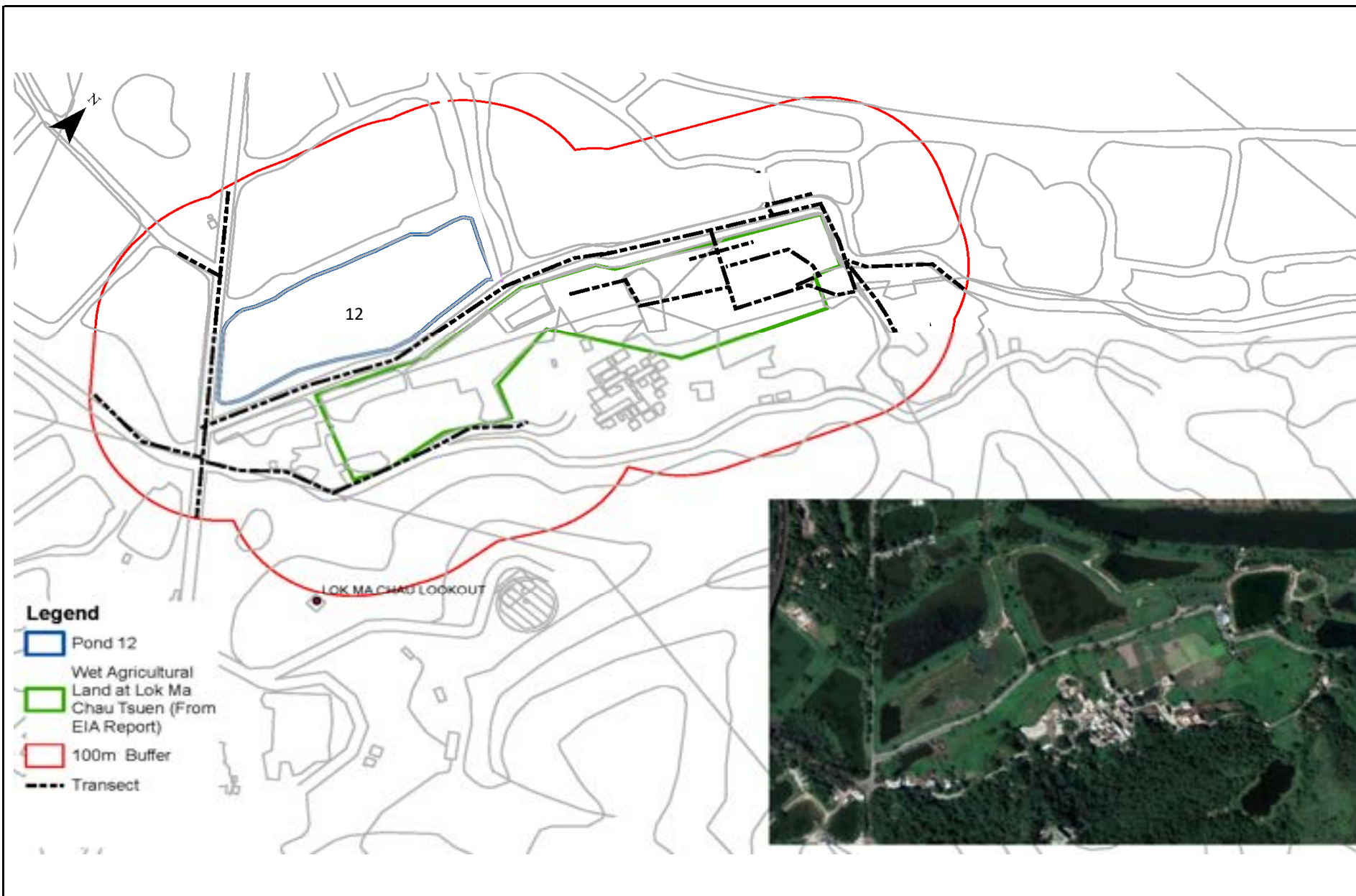


LOCATION PLAN



Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team  
 Locations of Pond 12 and Lok Ma Chau Lookout

|         |              |            |          |
|---------|--------------|------------|----------|
| SCALE   | 1:14000 @ A4 | DATE       | MAR 2022 |
| CHECK   | IT           | DRAWN      | ML       |
| JOB No. | WMA 21009    | FIGURE NO. | Fig 5a   |
|         |              | REV        | -        |



Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop Main Work Package 1 - Environmental Team  
 Locations of Transect for Monitoring of Chinese Bull Frog

|       |        |             |          |
|-------|--------|-------------|----------|
| Scale | N.T.S  | Project No. | WMA21009 |
| Date  | Mar-22 | Figure      | 5b       |





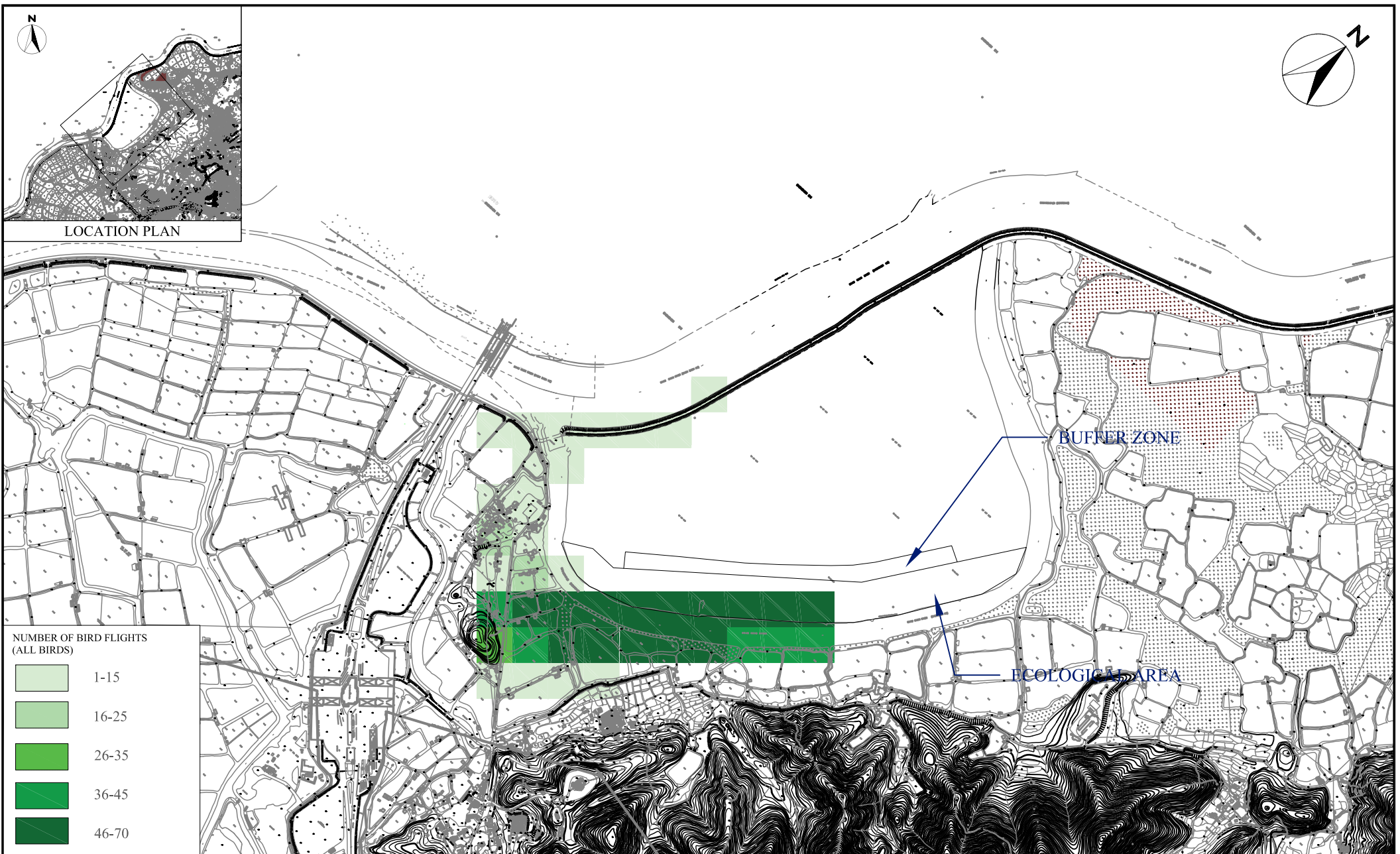


Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop Main Work Package 1 - Environmental Team

Locations of Rose Bitterling Sampling Points

|       |        |             |          |
|-------|--------|-------------|----------|
| Scale | N.T.S  | Project No. | WMA21009 |
| Date  | Mar-22 | Figure      | 5c       |

**WELLAB 匯力**  
 consulting . testing . research



Service Contract No. WD/04/2020

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Flight Lines of All Bird Species

**WELLAB 匯力**  
consulting . testing . research

|         |             |            |                |
|---------|-------------|------------|----------------|
| SCALE   | 1:14000 @A4 | DATE       | September 2024 |
| CHECK   | IT          | DRAWN      | ML             |
| JOB No. | WMA 21009   | FIGURE NO. | Fig 6          |
|         |             | REV        | -              |



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**APPENDIX A  
CONSTRUCTION PROGRAMME**

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**Contract No. YL/2020/01 - Development of Lok Ma Chau  
Loop: Main Works Package 1 – Contract 1 Site Formation  
and Infrastructure Works inside Lok Ma Chau Loop and  
Western Connection Road Phase 1**













| Activity ID  | Activity Name  | Orig Dur | Early Start | Early Finish | Late Start | Late Finish | Total Float | August 46  |    |    |    | September 47 |    |    |    | October 48 |    |    |    | November 49 |    |    |    | December 50 |    |    |    |    |  |  |  |  |  |  |  |
|--|--|----------|-------------|--------------|------------|-------------|-------------|--|----|----|----|--------------|----|----|----|------------|----|----|----|-------------|----|----|----|-------------|----|----|----|----|--|--|--|--|--|--|--|
|  |  |          |             |              |            |             |             | 04   | 11 | 18 | 25 | 01           | 08 | 15 | 22 | 29         | 06 | 13 | 20 | 27          | 03 | 10 | 17 | 24          | 01 | 08 | 15 | 22 |  |  |  |  |  |  |  |
|  |  |          |             |              |            |             |             | Gantt Chart  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6710A   | Area 2 - Fill Slope F8   | 51       | 10-Jul-24 A | 16-Sep-24    | 01-Aug-24  | 15-Aug-24   | -27         | Area 2 - Fill Slope F8   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6711  | Area 2 - Fill Slope F10  | 25       | 10-Jul-24 A | 07-Sep-24*   | 01-Aug-24  | 07-Aug-24   | -27         | Area 2 - Fill Slope F10  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6712  | Area 2 - Fill Slope F5   | 20       | 02-Sep-24*  | 25-Sep-24    | 07-Aug-24  | 29-Aug-24   | -22         | Area 2 - Fill Slope F5   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6712A   | Area 2 - Fill Slope F7   | 25       | 01-Aug-24 A | 02-Oct-24    | 30-Sep-24  | 30-Oct-24   | 23          | Area 2 - Fill Slope F7   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6712B   | Area 2 - Fill Slope F6   | 25       | 01-Aug-24 A | 02-Oct-24    | 30-Sep-24  | 30-Oct-24   | 23          | Area 2 - Fill Slope F6   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6713  | Area 2 - Fill Slope F9   | 25       | 01-Aug-24 A | 02-Oct-24*   | 31-Jul-24  | 28-Aug-24   | -28         | Area 2 - Fill Slope F9   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6715  | Area 2 - Formation + Kerb Construction (footpath and cycle track)            | 25       | 29-Jul-24 A | 07-Sep-24*   | 10-Aug-24  | 10-Aug-24   | -23         | Area 2 - Formation + Kerb Construction (footpath and cycle track)            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6725  | Area 2 - Footpath and Cycle Track  | 10       | 02-Sep-24*  | 12-Sep-24    | 12-Aug-24  | 22-Aug-24   | -18         | Area 2 - Footpath and Cycle Track  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6730  | Area 2 - Irrigation System   | 42       | 02-Sep-24*  | 23-Oct-24    | 12-Aug-24  | 30-Sep-24   | -18         | Area 2 - Irrigation System   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-6740  | Area 2 - Road Finish, Road Marking and Street Furniture                      | 21       | 02-Sep-24*  | 26-Sep-24    | 07-Aug-24  | 30-Aug-24   | -22         | Area 2 - Road Finish, Road Marking and Street Furniture                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 (CH 1650 to CH 1350) 300m</b>  |  |          |             |              |            |             |             | 289  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - Retaining Wall RW5 (CSD to Slope Works)</b>                                  |  |          |             |              |            |             |             | 622  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-7365  | Area 3 - (RW5) Excavation and Slope Filling                                  | 83       | 01-Nov-23 A | 14-Sep-24    | 10-Oct-26  | 24-Oct-26   | 622         | Area 3 - (RW5) Excavation and Slope Filling                                  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-7403  | Area 3 - (RW5) Surface Drainage  | 60       | 08-Dec-23 A | 14-Sep-24    | 29-Oct-26  | 11-Nov-26   | 637         | Area 3 - (RW5) Surface Drainage  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-7405  | Area 3 - (RW5) Slope Finishing   | 15       | 16-Sep-24   | 04-Oct-24    | 26-Oct-26  | 11-Nov-26   | 622         | Area 3 - (RW5) Slope Finishing   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - UU &amp; Road Construction</b>   |  |          |             |              |            |             |             | 232  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8832  | Area 3 - Fill Slope F15  | 73       | 22-Jul-24 A | 20-Sep-24*   | 02-Aug-24  | 20-Aug-24   | -26         | Area 3 - Fill Slope F15  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8834  | Area 3 - Fill Slope F17  | 76       | 29-Jul-24 A | 09-Sep-24    | 04-Nov-26  | 11-Nov-26   | 642         | Area 3 - Fill Slope F17  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8835  | Area 3 - Fill Slope F11  | 19       | 02-Sep-24*  | 24-Sep-24    | 05-Aug-24  | 26-Aug-24   | -24         | Area 3 - Fill Slope F11  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8836  | Area 3 - Fill Slope F16  | 19       | 02-Sep-24*  | 24-Sep-24    | 05-Aug-24  | 26-Aug-24   | -24         | Area 3 - Fill Slope F16  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8837  | Area 3 - Formation + Kerb Construction (footpath and cycle track)            | 50       | 17-Jun-24 A | 14-Sep-24    | 03-Oct-24  | 17-Oct-24   | 25          | Area 3 - Formation + Kerb Construction (footpath and cycle track)            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8847  | Area 3 - Footpath and Cycle Track  | 32       | 25-Jul-24 A | 28-Sep-24    | 03-Oct-24  | 30-Oct-24   | 25          | Area 3 - Footpath and Cycle Track  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8850  | Area 3 - Irrigation System   | 42       | 02-Sep-24*  | 23-Oct-24    | 12-Aug-24  | 30-Sep-24   | -18         | Area 3 - Irrigation System   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-8855  | Area 3 - Road Finish, Road Marking and Street Furniture                      | 20       | 02-Sep-24*  | 25-Sep-24    | 07-Aug-24  | 29-Aug-24   | -22         | Area 3 - Road Finish, Road Marking and Street Furniture                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Junction UU &amp; Road Construction</b>                                 |  |          |             |              |            |             |             | 303  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Junction (Phase 3) - Permanent Works (Scheme 61)</b>                    |  |          |             |              |            |             |             | 303  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9560  | LMCR Junction - Utilities enabling works - CLP 132kV                         | 18       | 16-Jul-24 A | 06-Sep-24    | 06-Nov-26  | 11-Nov-26   | 644         | LMCR Junction - Utilities enabling works - CLP 132kV                         |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9560  | LMCR Junction - Permanent roadworks  | 19       | 01-Aug-24 A | 24-Sep-24    | 16-Jul-24  | 06-Aug-24   | -41         | LMCR Junction - Permanent roadworks  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9570  | LMCR Junction - Utilities enabling works - CLP 11kV                          | 3        | 25-Jul-24 A | 09-Sep-24*   | 19-Jul-24  | 26-Jul-24   | -17         | LMCR Junction - Utilities enabling works - CLP 11kV                          |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9580  | LMCR Junction - Utilities enabling works - Towngas                           | 3        | 25-Jul-24 A | 05-Sep-24*   | 23-Jul-24  | 26-Jul-24   | -16         | LMCR Junction - Utilities enabling works - Towngas                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9590  | LMCR Junction - Utilities enabling works - FNO                               | 3        | 29-Jul-24 A | 05-Sep-24*   | 26-Jul-24  | 30-Jul-24   | -15         | LMCR Junction - Utilities enabling works - FNO                               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Junction (Phase 4) - Permanent Works (Scheme 65)</b>                    |  |          |             |              |            |             |             | 303  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10115   | LMCR Junction - Temporary roadworks  | 2        | 01-Aug-24 A | 03-Sep-24    | 10-Nov-26  | 11-Nov-26   | 311         | LMCR Junction - Temporary roadworks  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-9975  | LMCR Junction - Drainage and Watermain pipelaying                            | 14       | 24-Jul-24 A | 25-Sep-24*   | 06-Aug-24  | 06-Aug-24   | -41         | LMCR Junction - Drainage and Watermain pipelaying                            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Junction (Phase 5) - Traffic via Permanent Road (Scheme 64)</b>         |  |          |             |              |            |             |             | 308  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10005   | LMCR Junction - Implementation of TTA Scheme 64                              | 0        | 02-Sep-24*  | 01-Aug-24    | 01-Aug-24  | 01-Aug-24   | -26         | LMCR Junction - Implementation of TTA Scheme 64                              |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10015   | LMCR Junction - Watermain Pipelaying   | 7        | 02-Sep-24   | 09-Sep-24    | 04-Nov-26  | 11-Nov-26   | 642         | LMCR Junction - Watermain Pipelaying   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10025   | LMCR Junction - Utilities enabling works - CLP 132kV                         | 8        | 02-Sep-24*  | 10-Sep-24    | 02-Aug-24  | 10-Aug-24   | -26         | LMCR Junction - Utilities enabling works - CLP 132kV                         |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10035   | LMCR Junction - UU Detection & Site Clearance                                | 1        | 02-Sep-24*  | 02-Sep-24    | 02-Aug-24  | 02-Aug-24   | -26         | LMCR Junction - UU Detection & Site Clearance                                |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10125   | LMCR Junction - Utilities enabling works - CLP 11kV                          | 4        | 02-Sep-24*  | 11-Sep-24    | 12-Aug-24  | 21-Aug-24   | -8          | LMCR Junction - Utilities enabling works - CLP 11kV                          |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10135   | LMCR Junction - Utilities enabling works - Towngas                           | 4        | 02-Sep-24*  | 11-Sep-24    | 16-Aug-24  | 26-Aug-24   | -6          | LMCR Junction - Utilities enabling works - Towngas                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10145   | LMCR Junction - Utilities enabling works - FNO                               | 4        | 02-Sep-24*  | 11-Sep-24    | 16-Aug-24  | 26-Aug-24   | -6          | LMCR Junction - Utilities enabling works - FNO                               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10155   | LMCR Junction - Temporary Roadworks  | 2        | 02-Sep-24*  | 06-Sep-24    | 20-Aug-24  | 23-Aug-24   | -5          | LMCR Junction - Temporary Roadworks  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Junction (Phase 6) - Traffic via Permanent Road (Ext. of Scheme 64)</b> |  |          |             |              |            |             |             | 305  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10165   | LMCR Junction - Implementation of TTA (Ext. of Scheme 64)                    | 0        | 02-Sep-24*  | 23-Aug-24    | 23-Aug-24  | 23-Aug-24   | -7          | LMCR Junction - Implementation of TTA (Ext. of Scheme 64)                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10175   | LMCR Junction - Manhole Construction (Type G1 - 2nos)                        | 14       | 02-Sep-24*  | 17-Sep-24    | 27-Oct-26  | 11-Nov-26   | 635         | LMCR Junction - Manhole Construction (Type G1 - 2nos)                        |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10185   | LMCR Junction - Manhole Construction (Type D1)                               | 4        | 02-Sep-24*  | 05-Sep-24    | 26-Aug-24  | 29-Aug-24   | -6          | LMCR Junction - Manhole Construction (Type D1)                               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10195   | LMCR Junction - DN900 Pipelaying   | 7        | 10-Sep-24*  | 17-Sep-24    | 10-Sep-24  | 17-Sep-24   | 0           | LMCR Junction - DN900 Pipelaying   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10205   | LMCR Junction - DN450 Pipelaying   | 7        | 02-Sep-24*  | 19-Sep-24    | 30-Aug-24  | 17-Sep-24   | -1          | LMCR Junction - DN450 Pipelaying   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10215   | LMCR Junction - Gully Pipelaying   | 3        | 10-Sep-24*  | 17-Sep-24    | 10-Sep-24  | 17-Sep-24   | 0           | LMCR Junction - Gully Pipelaying   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10235   | LMCR Junction - Roadworks  | 3        | 13-Sep-24*  | 20-Sep-24    | 13-Sep-24  | 20-Sep-24   | 0           | LMCR Junction - Roadworks  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR - Connection to Existing Manhole</b>                                    |  |          |             |              |            |             |             | 289  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Connection to Existing Manhole (Phase 1) - TTA Scheme 74</b>            |  |          |             |              |            |             |             | 291  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10245   | LMCR Connection to existing MH Phase 1 - Implementation of TTA Scheme 74     | 0        | 27-Sep-24*  | 11-Nov-26    | 11-Nov-26  | 11-Nov-26   | 628         | LMCR Connection to existing MH Phase 1 - Implementation of TTA Scheme 74     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10265   | LMCR Connection to existing MH Phase 1 - Construction of DN600               | 7        | 27-Sep-24*  | 05-Oct-24    | 04-Nov-26  | 11-Nov-26   | 621         | LMCR Connection to existing MH Phase 1 - Construction of DN600               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10295   | LMCR Connection to existing MH Phase 1 - CLP 11kV Cross road ducts           | 3        | 04-Oct-24*  | 11-Oct-24    | 04-Oct-24  | 11-Oct-24   | 0           | LMCR Connection to existing MH Phase 1 - CLP 11kV Cross road ducts           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10305   | LMCR Connection to existing MH Phase 1 - Roadworks                           | 7        | 08-Oct-24*  | 25-Oct-24    | 08-Oct-24  | 25-Oct-24   | 0           | LMCR Connection to existing MH Phase 1 - Roadworks                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Area 3 - LMCR Connection to Existing Manhole (Phase 2) - TTA Scheme 75</b>            |  |          |             |              |            |             |             | 600  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10255   | LMCR Connection to existing MH Phase 2 - Implementation of TTA Scheme 75     | 0        | 18-Oct-24*  | 04-Nov-26    | 04-Nov-26  | 04-Nov-26   | 605         | LMCR Connection to existing MH Phase 2 - Implementation of TTA Scheme 75     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10275   | LMCR Connection to existing MH Phase 2 - Connection of DN600                 | 7        | 18-Oct-24   | 25-Oct-24    | 04-Nov-26  | 11-Nov-26   | 605         | LMCR Connection to existing MH Phase 2 - Connection of DN600                 |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10285   | LMCR Connection to existing MH Phase 2 - Connection of DN300                 | 7        | 18-Oct-24   | 25-Oct-24    | 04-Nov-26  | 11-Nov-26   | 605         | LMCR Connection to existing MH Phase 2 - Connection of DN300                 |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10405   | LMCR Connection to existing MH Phase 2 - Roadworks                           | 6        | 25-Oct-24*  | 31-Oct-24    | 25-Oct-24  | 31-Oct-24   | 0           | LMCR Connection to existing MH Phase 2 - Roadworks                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Landscape Works</b>   |  |          |             |              |            |             |             | 554  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10045   | Area 1 - Landscape Works   | 53       | 30-Jul-24 A | 15-Nov-24    | 08-Sep-26  | 11-Nov-26   | 587         | Area 1 - Landscape Works   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10055   | Area 2 - Landscape Works   | 51       | 16-Sep-24   | 16-Nov-24    | 10-Sep-26  | 11-Nov-26   | 586         | Area 2 - Landscape Works   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-10065   | Area 3 and LMCR - Landscape Works  | 53       | 23-Jul-24 A | 24-Dec-24    | 08-Sep-26  | 11-Nov-26   | 554         | Area 3 and LMCR - Landscape Works  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S6 WCR Pai Lau</b>  |  |          |             |              |            |             |             | 260  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-5638  | PL No. 1 - Precast Architectural Appearance Fabrication and Delivery to Site | 189      | 30-Sep-22 A | 19-Sep-24    | 21-Jun-24  | 09-Jul-24   | -72         | PL No. 1 - Precast Architectural Appearance Fabrication and Delivery to Site |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-5645C   | Issued PMI No. 122 - PM Review and Reply                                     | 14       | 01-Mar-23 A | 16-Sep-24    | 27-Oct-26  | 11-Nov-26   | 786         | Issued PMI No. 122 - PM Review and Reply                                     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-5650A   | Issued PMI No. XXX - Design, Supply and Install Pai Lau Lighting             | 0        |             | 02-Sep-24*   |            | 08-Feb-24   | -165        | Issued PMI No. XXX - Design, Supply and Install Pai Lau Lighting             |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-5650B   | Issued PMI No. XXX - Quotation Preparation and Submission                    | 21       | 02-Sep-24   | 22-Sep-24    | 05-Jun-24  | 25-Jun-24   | -89         | Issued PMI No. XXX - Quotation Preparation and Submission                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-5650C   | Issued PMI No. XXX - PM Review and Reply                                     | 14       | 23-Sep-24   | 06-Oct-24    | 26-Jun-24  | 09-Jul-24   | -89         | Issued PMI No. XXX - PM Review and Reply                                     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Pai Lau No.1 Construction (Location 15, LMC Road)</b>                                 |  |          |             |              |            |             |             | -74  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>PL No.1 - Superstructure</b>  |  |          |             |              |            |             |             | -74  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3725  | PL No. 1 - Erect formwork and fix reinforcement for beam and roof            | 7        | 02-Jul-24 A | 15-Oct-24    | 10-Jul-24  | 17-Jul-24   | -74         | PL No. 1 - Erect formwork and fix reinforcement for beam and roof            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3735  | PL No. 1 - Concreting for beam and roof                                      | 1        | 02-Jul-24 A | 16-Oct-24    | 18-Jul-24  | 18-Jul-24   | -74         | PL No. 1 - Concreting for beam and roof                                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3745  | PL No. 1 - Remove formwork and falsework                                     | 4        | 17-Oct-24   | 21-Oct-24    | 19-Jul-24  | 23-Jul-24   | -74         | PL No. 1 - Remove formwork and falsework                                     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3750  | PL No. 1 - Cabling and Erection of Pai Lau Lighting System                   | 21       | 22-Oct-24   | 14-Nov-24    | 24-Jul-24  | 16-Aug-24   | -74         | PL No. 1 - Cabling and Erection of Pai Lau Lighting System                   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3755  | PL No. 1 - Construct the architectural appearance                            | 48       | 15-Nov-24   | 13-Jan-25    | 17-Aug-24  | 15-Oct-24   | -74         | PL No. 1 - Construct the architectural appearance                            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Pai Lau No. 2 Construction (Location 11, HWT Road)</b>                                |  |          |             |              |            |             |             | -63  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>PL No.2 - Superstructure</b>  |  |          |             |              |            |             |             | -63  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3725  | PL No. 2 - Erect formwork and fix reinforcement for beam and roof            | 7        | 02-Jul-24 A | 15-Oct-24    | 10-Jul-24  | 17-Jul-24   | -74         | PL No. 2 - Erect formwork and fix reinforcement for beam and roof            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3735  | PL No. 2 - Concreting for beam and roof                                      | 1        | 02-Jul-24 A | 16-Oct-24    | 18-Jul-24  | 18-Jul-24   | -74         | PL No. 2 - Concreting for beam and roof                                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3745  | PL No. 2 - Remove formwork and falsework                                     | 4        | 17-Oct-24   | 21-Oct-24    | 19-Jul-24  | 23-Jul-24   | -74         | PL No. 2 - Remove formwork and falsework                                     |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3750  | PL No. 2 - Cabling and Erection of Pai Lau Lighting System                   | 21       | 22-Oct-24   | 14-Nov-24    | 24-Jul-24  | 16-Aug-24   | -74         | PL No. 2 - Cabling and Erection of Pai Lau Lighting System                   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S6-3755  | PL No. 2 - Construct the architectural appearance                            | 48       | 15-Nov-24   | 13-Jan-25    | 17-Aug-24  | 15-Oct-24   | -74         | PL No. 2 - Construct the architectural appearance                            |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |



■ Actual Level of Effort  
▬ Actual Work  
▬ Remaining Work  
▬ Critical Remaining Work  
◆ Milestone

**Contract YL/2020/01 - Lok Ma Chau Loop Main Works Package 1**  
**Three Month Rolling Programme**

Project ID : d.YL36-240924  
 Layout : YL-02 3MRP  
 Date : 25-Sep-24/ Page 4 of 7

| Three Month Rolling Programme |            |         |          |
|-------------------------------|------------|---------|----------|
| Date                          | Revision   | Checked | Approved |
| 31-Aug-24                     | MPR No. 38 |         |          |







| Activity ID  | Activity Name   | Orig Dur | Early Start | Early Finish | Late Start | Late Finish | Total Float | August 46   |    |    |    | September 47 |    |    |    | October 48 |    |    |    | November 49 |    |    |    | December 50 |    |    |    |    |  |  |  |  |  |  |  |
|--|---|----------|-------------|--------------|------------|-------------|-------------|---|----|----|----|--------------|----|----|----|------------|----|----|----|-------------|----|----|----|-------------|----|----|----|----|--|--|--|--|--|--|--|
|  |   |          |             |              |            |             |             | 04  | 11 | 18 | 25 | 01           | 08 | 15 | 22 | 29         | 06 | 13 | 20 | 27          | 03 | 10 | 17 | 24          | 01 | 08 | 15 | 22 |  |  |  |  |  |  |  |
|  |   |          |             |              |            |             |             | Interface - Portion 18C Handover to CLP/ESS Contractor (PS Appendix 1.27B)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-1090  | Interface - Portion 18C Handover to CLP/ESS Contractor (PS Appendix 1.27B)                              | 0        |             | 01-Sep-24*   |            | 20-Feb-24   | -193        | Interface - Portion 18C Handover to CLP/ESS Contractor (PS Appendix 1.27B)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Section 12C - Construction</b>  |   |          |             |              |            |             |             | <b>Section 12C - Construction</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>Section 12C - Road L1 - Portion 18C (CH 1170 to 1430) 260m</b>                                    |   |          |             |              |            |             |             | <b>Section 12C - Road L1 - Portion 18C (CH 1170 to 1430) 260m</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-PC10  | Complete Road L1 (PM1088) - Carriageway   | 0        |             | 22-Nov-24*   |            | 31-Jul-23   | -480        | ◆ Complete Road L1 (PM1088) - Carriageway   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-PC20  | Complete Road L1 (PM1088) - Remaining Works   | 0        |             | 18-Dec-24*   |            | 19-Feb-24   | -303        | ◆ Complete Road L1 (PM1088) - Remaining Works   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 1 (Building 11)</b>  |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 1 (Building 11)</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 1 (Building 11) - Roadworks and Lighting</b>                                 |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 1 (Building 11) - Roadworks and Lighting</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5759  | Stage 1 18C Road L1 (Building 11) - Road works (Street Light Ducting)                                   | 6        | 27-Nov-23A  | 03-Sep-24    | 11-Nov-23  | 13-Nov-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Road works (Street Light Ducting)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5770  | Stage 1 18C Road L1 (Building 11) - Road works (Smart Light Ducting)                                    | 6        | 27-Nov-23A  | 03-Sep-24    | 11-Nov-23  | 13-Nov-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Road works (Smart Light Ducting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5775  | Stage 1 18C Road L1 (Building 11) - Road works (Footpath - Formation, SRT & Kerb Installation)          | 11       | 04-Sep-24   | 16-Sep-24    | 14-Nov-23  | 25-Nov-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Road works (Footpath - Formation, SRT & Kerb Installation)                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5765  | Stage 1 18C Road L1 (Building 11) - Road works (Lighting)   | 10       | 02-Nov-24   | 13-Nov-24    | 24-Jan-24  | 03-Feb-24   | -229        | ■ Stage 1 18C Road L1 (Building 11) - Road works (Lighting)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5786  | Stage 1 18C Road L1 (Building 11) - Road works (Footpath - Paving Block Installation)                   | 15       | 09-Nov-24   | 26-Nov-24    | 30-Jan-24  | 19-Feb-24   | -230        | ■ Stage 1 18C Road L1 (Building 11) - Road works (Footpath - Paving Block Installation)                               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 1 (Building 11) - Run In / Out</b>   |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 1 (Building 11) - Run In / Out</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6730  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Provide Temporary Entrance Access at Bldg 12)           | 3        | 17-Feb-24 A | 17-Sep-24    | 24-Nov-23  | 27-Nov-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Provide Temporary Entrance Access at Bldg 12)                       |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6740  | Stage 1 18C Road L1 (Building 11) - Run In/Out (132kV)  | 5        | 19-Sep-24   | 24-Sep-24    | 28-Nov-23  | 02-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (132kV)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6750  | Stage 1 18C Road L1 (Building 11) - Run In/Out (11kV)   | 4        | 25-Sep-24   | 28-Sep-24    | 04-Dec-23  | 07-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (11kV)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6760  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Telecom)  | 4        | 30-Sep-24   | 04-Oct-24    | 08-Dec-23  | 12-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Telecom)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6770  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Street Light Ducting)                                   | 4        | 05-Oct-24   | 09-Oct-24    | 13-Dec-23  | 16-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Street Light Ducting)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6780  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Smart Light Ducting)                                    | 4        | 05-Oct-24   | 09-Oct-24    | 13-Dec-23  | 16-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Smart Light Ducting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6790  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Kerb Installation)                                      | 4        | 10-Oct-24   | 15-Oct-24    | 18-Dec-23  | 21-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Kerb Installation)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6800  | Stage 1 18C Road L1 (Building 11) - Run In/Out (Paving Block Installation)                              | 6        | 16-Oct-24   | 22-Oct-24    | 22-Dec-23  | 30-Dec-23   | -239        | ■ Stage 1 18C Road L1 (Building 11) - Run In/Out (Paving Block Installation)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 2 (Building 12)</b>  |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 2 (Building 12)</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 2 (Building 12) - Roadworks and Lighting</b>                                 |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 2 (Building 12) - Roadworks and Lighting</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5965  | Stage 2 18C Road L1 (Building 12) - Road works (Footpath - Formation, SRT & Kerb Installation)          | 11       | 02-Sep-24   | 13-Sep-24    | 21-Nov-23  | 02-Dec-23   | -231        | ■ Stage 2 18C Road L1 (Building 12) - Road works (Footpath - Formation, SRT & Kerb Installation)                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5990  | Stage 2 18C Road L1 (Building 12) - Road works (Footpath - Paving Block Installation)                   | 15       | 23-Oct-24   | 08-Nov-24    | 02-Jan-24  | 18-Jan-24   | -239        | ■ Stage 2 18C Road L1 (Building 12) - Road works (Footpath - Paving Block Installation)                               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5965  | Stage 2 18C Road L1 (Building 12) - Road works (Lighting)   | 10       | 14-Nov-24   | 25-Nov-24    | 24-Jan-24  | 03-Feb-24   | -239        | ■ Stage 2 18C Road L1 (Building 12) - Road works (Lighting)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3 (Building 8)</b>   |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3 (Building 8)</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3B (Building 8) - Drainage &amp; Sewage, Watermain &amp; Flushing</b>        |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3B (Building 8) - Drainage &amp; Sewage, Watermain &amp; Flushing</b>                         |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6600  | Stage 3B 18C Road L1 (Bldg 8) - Drainage and Sewage   | 30       | 06-Sep-23 A | 10-Sep-24    | 15-Dec-23  | 23-Dec-23   | -210        | ■ Stage 3B 18C Road L1 (Bldg 8) - Drainage and Sewage   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6612  | Stage 3B 18C Road L1 (Bldg 8) - Fire Hydrant Pipe and Irrigation Pipe Installation                      | 8        | 14-Sep-24   | 24-Sep-24    | 07-Feb-24  | 19-Feb-24   | -178        | ■ Stage 3B 18C Road L1 (Bldg 8) - Fire Hydrant Pipe and Irrigation Pipe Installation                                  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3 (Building 8) - UU Installation and Enabling Works (by Others)</b>          |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3 (Building 8) - UU Installation and Enabling Works (by Others)</b>                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5810  | Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (132kV)   | 9        | 14-Dec-23A  | 21-Sep-24    | 27-Dec-23  | 06-Jan-24   | -210        | ■ Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (132kV)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5816  | Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (11kV)  | 9        | 23-Sep-24   | 03-Oct-24    | 08-Jan-24  | 17-Jan-24   | -210        | ■ Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (11kV)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5820  | Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (Gas Main)  | 9        | 18-Dec-23A  | 11-Sep-24    | 04-Jul-23  | 13-Jul-23   | -348        | ■ Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (Gas Main)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5880  | Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (Telecom)   | 8        | 19-Dec-23A  | 12-Sep-24    | 13-Jul-23  | 13-Jul-23   | -348        | ■ Stage 3A 18C Road L1 (Bldg 8) - UU enabling works (Telecom)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3 (Building 8) - Roadworks and Lighting</b>                                  |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3 (Building 8) - Roadworks and Lighting</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5950  | Stage 3 18C Road L1 (Bldg 8) - Road works (Street Light Ducting)  | 8        | 12-Sep-24   | 21-Sep-24    | 14-Jul-23  | 22-Jul-23   | -348        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Street Light Ducting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5953  | Stage 3 18C Road L1 (Bldg 8) - Road works (Gully and Gully Pipe Installation)                           | 7        | 23-Sep-24   | 30-Sep-24    | 24-Jul-23  | 31-Jul-23   | -348        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Gully and Gully Pipe Installation)                                       |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5954  | Stage 3 18C Road L1 (Bldg 8) - Road works (Footpath - Formation, SRT & Kerb Installation)               | 14       | 02-Oct-24   | 18-Oct-24    | 02-Jan-24  | 17-Jan-24   | -222        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Footpath - Formation, SRT & Kerb Installation)                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5956  | Stage 3 18C Road L1 (Bldg 8) - Road works (Footpath - Paving Block Installation)                        | 14       | 19-Oct-24   | 04-Nov-24    | 18-Jan-24  | 02-Feb-24   | -222        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Footpath - Paving Block Installation)                                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5957  | Stage 3 18C Road L1 (Bldg 8) - Road works (Cycle Track)   | 11       | 06-Dec-24   | 18-Dec-24    | 03-Feb-24  | 19-Feb-24   | -249        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Cycle Track)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6000  | Stage 3 18C Road L1 (Bldg 8) - Road works (Lighting)  | 10       | 26-Nov-24   | 06-Dec-24    | 05-Feb-24  | 19-Feb-24   | -239        | ■ Stage 3 18C Road L1 (Bldg 8) - Road works (Lighting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3 (Building 8) - Existing Run In / Out (Phase 1)</b>                         |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3 (Building 8) - Existing Run In / Out (Phase 1)</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6870  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation) | 14       | 02-Sep-24   | 17-Sep-24    | 16-Dec-23  | 04-Jan-24   | -209        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation)             |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6880  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                        | 7        | 03-Oct-24   | 10-Oct-24    | 18-Jan-24  | 25-Jan-24   | -209        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6880  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   | 7        | 12-Oct-24   | 19-Oct-24    | 26-Jan-24  | 02-Feb-24   | -209        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 3 (Building 8) - Existing Run In / Out (Phase 2)</b>                         |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 3 (Building 8) - Existing Run In / Out (Phase 2)</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6900  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Drainage)  | 5        | 02-Sep-24   | 06-Sep-24    | 27-Nov-23  | 01-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Drainage)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6910  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (132kV)   | 4        | 07-Sep-24   | 11-Sep-24    | 02-Dec-23  | 06-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (132kV)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6920  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (11kV)  | 3        | 12-Sep-24   | 14-Sep-24    | 07-Dec-23  | 09-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (11kV)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6930  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Gas Main)  | 3        | 16-Sep-24   | 19-Sep-24    | 11-Dec-23  | 13-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Gas Main)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6940  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Telecom)   | 2        | 20-Sep-24   | 21-Sep-24    | 14-Dec-23  | 15-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Telecom)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6950  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Street Light Ducting)  | 2        | 20-Sep-24   | 21-Sep-24    | 14-Dec-23  | 15-Dec-23   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Street Light Ducting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6960  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation) | 14       | 23-Sep-24   | 09-Oct-24    | 16-Dec-23  | 04-Jan-24   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation)             |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6970  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                        | 7        | 24-Oct-24   | 31-Oct-24    | 18-Jan-24  | 25-Jan-24   | -226        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6980  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   | 7        | 28-Nov-24   | 05-Dec-24    | 26-Jan-24  | 02-Feb-24   | -249        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 4 (Building 9)</b>   |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 4 (Building 9)</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 4 (Building 9) - UU Installation and Enabling Works (by Others)</b>          |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 4 (Building 9) - UU Installation and Enabling Works (by Others)</b>                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6015  | Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Fire Hydrant Pipe and Irrigation Pipe Installation)   | 10       | 20-Nov-23A  | 10-Sep-24    | 31-Oct-23  | 08-Nov-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Fire Hydrant Pipe and Irrigation Pipe Installation)               |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6630  | Stage 4 18C Road L1 (Bldg 9) - UU enabling works (11kV)   | 9        | 05-Dec-23A  | 04-Sep-24    | 31-Oct-23  | 02-Nov-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - UU enabling works (11kV)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6635  | Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Gas Main)   | 9        | 05-Sep-24   | 14-Sep-24    | 03-Nov-23  | 13-Nov-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Gas Main)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6640  | Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Telecom)  | 8        | 16-Sep-24   | 25-Sep-24    | 14-Nov-23  | 22-Nov-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Telecom)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 4 (Building 9) - Roadworks and Lighting</b>                                  |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 4 (Building 9) - Roadworks and Lighting</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5935  | Stage 4 18C Road L1 (Bldg 9) - Road works (Street Light Ducting)  | 8        | 26-Sep-24   | 05-Oct-24    | 23-Nov-23  | 01-Dec-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - Road works (Street Light Ducting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5937  | Stage 4 18C Road L1 (Bldg 9) - Road works (Footpath & Cycle Track - Formation, SRT & Kerb Installation) | 14       | 07-Oct-24   | 23-Oct-24    | 02-Dec-23  | 18-Dec-23   | -249        | ■ Stage 4 18C Road L1 (Bldg 9) - Road works (Footpath & Cycle Track - Formation, SRT & Kerb Installation)             |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5938  | Stage 4 18C Road L1 (Bldg 9) - Road works (Footpath & Cycle Track - Paving Block Installation)          | 14       | 24-Oct-24   | 08-Nov-24    | 21-Dec-23  | 09-Jan-24   | -247        | ■ Stage 4 18C Road L1 (Bldg 9) - Road works (Footpath & Cycle Track - Paving Block Installation)                      |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5940  | Stage 4 18C Road L1 (Bldg 9) - Road works (Cycle Track)   | 7        | 09-Nov-24   | 16-Nov-24    | 10-Jan-24  | 17-Jan-24   | -247        | ■ Stage 4 18C Road L1 (Bldg 9) - Road works (Cycle Track)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6650  | Stage 4 18C Road L1 (Bldg 9) - Road works (Lighting)  | 10       | 18-Nov-24   | 28-Nov-24    | 05-Feb-24  | 19-Feb-24   | -232        | ■ Stage 4 18C Road L1 (Bldg 9) - Road works (Lighting)  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 4 (Building 9) - Existing Run In / Out</b>                                   |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 4 (Building 9) - Existing Run In / Out</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-7050  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation) | 11       | 30-Oct-24   | 11-Nov-24    | 27-Dec-23  | 09-Jan-24   | -249        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath & Cycle Track - Formation, SRT & Kerb Installation)             |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-7060  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                        | 7        | 12-Nov-24   | 19-Nov-24    | 10-Jan-24  | 17-Jan-24   | -249        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Footpath - Paving Block Installation)                                    |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-7070  | Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   | 7        | 20-Nov-24   | 27-Nov-24    | 18-Jan-24  | 25-Jan-24   | -249        | ■ Stage 3 18C Road L1 (Bldg 8) - Run In/Out (Cycle Track)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 5 (Building 12, Box C)</b>   |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 5 (Building 12, Box C)</b>  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6390  | Interface Portion 18C - Allow Access to HSITP for Sewerage Pipe Construction (PS Appendix 1.27D)        | 90       | 23-Nov-24   | 15-Mar-25    | 25-Jul-25  | 10-Nov-25   | 194         | ■ Portion 18C Road L1 (Building 12, Box C) - Allow Access to HSITP for Sewerage Pipe Construction (PS Appendix 1.27D) |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 5 (Building 12, Box C) - Drainage &amp; Sewage, Watermain &amp; Flushing</b> |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 5 (Building 12, Box C) - Drainage &amp; Sewage, Watermain &amp; Flushing</b>                  |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5755A   | Stage 5 18C Road L1 (Building 12, Box C) - SMH04100 Construction and 2250 Drainage Laying               | 50       | 05-Oct-23 A | 03-Oct-24    | 10-May-23  | 09-Jun-23   | -392        | ■ Stage 5 18C Road L1 (Building 12, Box C) - SMH04100 Construction and 2250 Drainage Laying                           |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5755B   | Stage 5 18C Road L1 (Building 12, Box C) - SMH03050 Construction and Drainage Laying                    | 10       | 05-Jan-24 A | 12-Sep-24    | 30-May-23  | 09-Jun-23   | -376        | ■ Stage 5 18C Road L1 (Building 12, Box C) - SMH03050 Construction and Drainage Laying                                |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5755C   | Stage 5 18C Road L1 (Building 12, Box C) - RMH02244, RMH02245A, RMH02245B and Drainage Laying           | 10       | 04-Oct-24   | 16-Oct-24    | 10-Jun-23  | 21-Jun-23   | -392        | ■ Stage 5 18C Road L1 (Building 12, Box C) - RMH02244, RMH02245A, RMH02245B and Drainage Laying                       |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-5755D   | Stage 5 18C Road L1 (Building 12, Box C) - SMH03050 Construction and Drainage Laying                    | 10       | 07-Oct-24   | 18-Oct-24    | 13-Jun-23  | 24-Jun-23   | -392        | ■ Stage 5 18C Road L1 (Building 12, Box C) - SMH03050 Construction and Drainage Laying                                |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| <b>S12C Road L1 - Stage 5 (Building 12, Box C) - Roadworks and Lighting</b>                          |   |          |             |              |            |             |             | <b>S12C Road L1 - Stage 5 (Building 12, Box C) - Roadworks and Lighting</b>   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |
| S12C-6020  | Portion 18C Road L1 (Building 12, Box C) - Road works (Carriageway)                                     | 30       | 19-Oct-24   | 22-Nov-24    | 26-Jun-23  | 31-Jul-23   | -392        | ■ Portion 18C Road L1 (Building 12, Box C) - Road works (Carriageway)   |    |    |    |              |    |    |    |            |    |    |    |             |    |    |    |             |    |    |    |    |  |  |  |  |  |  |  |



■ Actual Level of Effort  
■ Actual Work  
■ Remaining Work  
■ Critical Remaining Work  
◆ Milestone

**Contract YL/2020/01 - Lok Ma Chau Loop Main Works Package 1**  
**Three Month Rolling Programme**

Project ID : d.YL36-240924  
 Layout : YL-02 3MRP  
 Date : 25-Sep-24 / Page 6 of 7

| Three Month Rolling Programme |            |         |          |
|-------------------------------|------------|---------|----------|
| Date                          | Revision   | Checked | Approved |
| 31-Aug-24                     | MPR No. 38 |         |          |





**Contract No. YL/2020/02 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 2 Western**

**Connection Road Phase 2, Connection Roads to Fanling /**

**San Tin Highway and Direct Road Link Phase 1**

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID  | Activity Name  | At Completion Duration | Start | Finish      | Total Float | 2024 |             |           |      |    |    |    |    |    |    |    |    | 2025 |    |    |    |   |    |
|--|--|------------------------|-------|-------------|-------------|------|-------------|-----------|------|----|----|----|----|----|----|----|----|------|----|----|----|---|----|
|  |  |                        |       |             |             | 25   | 01          | 08        | 15   | 22 | 29 | 06 | 13 | 20 | 27 | 03 | 10 | 17   | 24 | 01 | 08 | 15  | 22 |
| <b>Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRL Phase 1 (MM)</b>   |  |                        |       |             |             | 739  | 13-May-23 A | 20-Sep-25 | 408  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Key Date and Section of the Works</b>   |  |                        |       |             |             | 91   | 31-Aug-24 A | 14-Dec-24 | 648  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Planned Achievement of Key Dates</b>  |  |                        |       |             |             | 0    | 23-Nov-24   | 23-Nov-24 | -113 |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| KDD1060  | KD 3 -Complete the laying of permanent water main along Lok Ma Chou Road including the connection to/along Castle  | 0                      |       | 23-Nov-24*  | -113        |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ KD 3-Complete the laying of permanent water main  |    |
| <b>Contractual Required Date for Section of the Works</b>  |  |                        |       |             |             | 0    | 15-Sep-24   | 15-Sep-24 | 0    |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| SEW1015  | Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the Site | 0                      |       | 15-Sep-24*  | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the S |    |
| <b>Planned Achievement Date for Section of the Works (Compared to Contract Completion Days)</b>            |  |                        |       |             |             | 15   | 31-Oct-24   | 18-Nov-24 | 671  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| SEW1070  | Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5 and 8 of the Site                           | 0                      |       | 31-Oct-24   | -31         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5  |    |
| SEW1080  | Section 2C- Comprises substructures and piling works of ST01 and CTFB within Portion 1,5,7 and 10 of the Site      | 0                      |       | 18-Nov-24   | 671         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ Section 2C- Comprises substructures and piling works of   |    |
| <b>Estimated Extended Completion Dates due to CE or IW (Compared to EOT Estimated Completion Days)</b>     |  |                        |       |             |             | 21   | 05-Sep-24 A | 25-Sep-24 | 0    |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| ECD100120  | Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the Site | 0                      |       | 22-Sep-24*  | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of       |    |
| ECD100110  | Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5 and 8 of the Site                           | 0                      |       | 25-Sep-24*  | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ◆ Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5 and 8 of the Site                        |    |
| <b>EOT Days due to Inclement Weather from Mar to Sep 2023</b>  |  |                        |       |             |             | 0    | 16-Sep-24   | 16-Sep-24 | 0    |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| EOT.100120   | Section 2B - Castle Peak Road Junction   | 0                      |       | 16-Sep-24*  | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2B - Castle Peak Road Junction  |    |
| <b>EOT Days due to Inclement Weather from Jul to Nov 2022</b>  |  |                        |       |             |             | 21   | 05-Sep-24 A | 25-Sep-24 | 0    |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| EOT.200120   | Section 2B - Castle Peak Road Junction   | 7                      |       | 16-Sep-24   | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2B - Castle Peak Road Junction  |    |
| EOT.200110   | Section 2A - LMC Road All Works  | 21                     |       | 05-Sep-24 A | 0           |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2A - LMC Road All Works   |    |
| <b>Comparison of Extended Completion Dates and Planned Completion Dates</b>                                |  |                        |       |             |             | 106  | 31-Aug-24 A | 14-Dec-24 | 756  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| CD.100110  | Section 2A - LMC Road All Works  | 36                     |       | 26-Sep-24   | -36         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2A - LMC Road All Works   |    |
| CD.100130  | Section 2C - ST01 & CTFB Bridge Substructure   | 80                     |       | 31-Aug-24 A | 782         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2C - ST01 & CTFB Bridge Substructure  |    |
| CD.100170  | Key Date - KD3 DN700 at LMC Road   | 84                     |       | 01-Sep-24 A | -113        |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Key Date - KD3 DN700 at LMC Road  |    |
| CD.100120  | Section 2B - Castle Peak Road Junction   | 83                     |       | 23-Sep-24   | -91         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Section 2B - Castle Peak Road   |    |
| <b>General Submission,Preliminaries, Contractor's Design,Method Statement Submission and Approval</b>      |  |                        |       |             |             | 739  | 13-May-23 A | 20-Sep-25 | 408  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Contractor's Design Submission and Approval</b>   |  |                        |       |             |             | 455  | 13-May-23 A | 24-Oct-24 | 212  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Major Permanent Works Design</b>  |  |                        |       |             |             | 455  | 13-May-23 A | 24-Oct-24 | 79   |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| MPW1095  | Submission for glass balustrades   | 431                    |       | 13-May-23 A | 79          |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Submission for glass balustrades  |    |
| MPW1095-10   | Acceptance of glass balustrades  | 24                     |       | 27-Sep-24   | 79          |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Acceptance of glass balustrades   |    |
| <b>Major Temporary Works Design</b>  |  |                        |       |             |             | 38   | 12-Aug-24 A | 24-Sep-24 | 238  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| MTW1220  | ELS design for construction of DN700 and Associated Valve Chambers/bend blocks                                     | 30                     |       | 12-Aug-24 A | 142         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ELS design for construction of DN700 and Associated Valve Chambers/bend blocks                                    |    |
| MTW1185  | ELS design for construction of Retaining Wall RW12   | 14                     |       | 09-Sep-24   | 185         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ELS design for construction of Retaining Wall RW12  |    |
| MTW1195  | ELS design for construction of Retaining Wall RW13   | 14                     |       | 09-Sep-24   | 195         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ELS design for construction of Retaining Wall RW13  |    |
| MTW1205  | ELS design for construction of Retaining Wall RW14   | 14                     |       | 09-Sep-24   | 221         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ELS design for construction of Retaining Wall RW14  |    |
| MTW1215  | ELS design for construction of Retaining Wall RW7  | 14                     |       | 09-Sep-24   | 238         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | ELS design for construction of Retaining Wall RW7   |    |
| <b>Method Statement Submission and Approval for Major Construction Works</b>                               |  |                        |       |             |             | 14   | 25-Sep-24   | 10-Oct-24 | 234  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| MSS1380  | Method Statement submission & approval for Construction of Retaining Wall - RW12                                   | 14                     |       | 25-Sep-24   | 185         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Method Statement submission & approval for Construction of Retaining Wall - RW12                                  |    |
| MSS1390  | Method Statement submission & approval for Construction of Retaining Wall - RW13                                   | 14                     |       | 25-Sep-24   | 195         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Method Statement submission & approval for Construction of Retaining Wall - RW13                                  |    |
| MSS1400  | Method Statement submission & approval for Construction of Retaining Wall - RW14                                   | 14                     |       | 25-Sep-24   | 221         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Method Statement submission & approval for Construction of Retaining Wall - RW14                                  |    |
| MSS1410  | Method Statement submission & approval for Construction of Retaining Wall - RW7                                    | 14                     |       | 25-Sep-24   | 234         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Method Statement submission & approval for Construction of Retaining Wall - RW7                                   |    |
| <b>Prefabrication of Precast Units</b>   |  |                        |       |             |             | 496  | 21-Feb-24 A | 20-Sep-25 | 408  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| FPS1030  | Fabrication of precast segments of DRL-Bridge  | 194                    |       | 21-Feb-24 A | 710         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Fabrication of precast segments of DRL-Bridge   |    |
| FPS1020  | Fabrication of precast segments of CTFB-Bridge   | 90                     |       | 09-Sep-24*  | -11         |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    | Fabrication of precast seg  |    |
| <b>Fabrication of roof covered walkway steelworks for Staircases and footbridge</b>                        |  |                        |       |             |             | 270  | 25-Oct-24   | 20-Sep-25 | 76   |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| FCW1000  | Fabrication of steelwork, steel canopy and roofing system  | 270                    |       | 25-Oct-24   | 76          |      |             |           |      |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Section 1 of the Works- Completion of the Works within Portion 1,2A,2B,3,5,7,8,9&amp;10 of the Site</b> |  |                        |       |             |             | 359  | 22-Nov-23 A | 13-Jan-25 | 623  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Superstructure for Bridge ST01</b>  |  |                        |       |             |             | 101  | 04-Sep-24 A | 30-Dec-24 | 635  |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Construction of Pierhead Segment</b>  |  |                        |       |             |             | 91   | 16-Sep-24   | 30-Dec-24 | 23   |    |    |    |    |    |    |    |    |      |    |    |    |   |    |
| <b>Construction of Pierhead Segment at Pier ST01-P02</b>   |  |                        |       |             |             | 14   | 16-Sep-24   | 01-Oct-24 | 55   |    |    |    |    |    |    |    |    |      |    |    |    |   |    |



Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
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- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |









Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID                   | Activity Name  | At Completion Duration | Start       | Finish    | Total Float | 2024      |    |    |    |         |    |    |    |          |    |    |    | 2025     |    |    |    |         |    |    |    |    |
|-------------------------------|--|------------------------|-------------|-----------|-------------|-----------|----|----|----|---------|----|----|----|----------|----|----|----|----------|----|----|----|---------|----|----|----|----|
|                               |  |                        |             |           |             | September |    |    |    | October |    |    |    | November |    |    |    | December |    |    |    | January |    |    |    |    |
|                               |  |                        |             |           |             | 25        | 01 | 08 | 15 | 22      | 29 | 06 | 13 | 20       | 27 | 03 | 10 | 17       | 24 | 01 | 08 | 15      | 22 | 29 | 05 | 12 |
| S014780                       | Backfilling and removal of sheetpile                                   | 20                     | 07-Oct-24   | 29-Oct-24 | 110         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Retaining Wall RW8b</b>    |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Preparation Works RW8b</b> |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014790                       | Installation of sheetpile / ELS  | 257                    | 22-Nov-23 A | 16-Sep-24 | 99          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>RW8b - Base Slab</b>       |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.10                    | Formworks, Rebar & Cast Base Slab - Bay 1                              | 6                      | 09-Sep-24   | 14-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.30                    | Formworks, Rebar & Cast Base Slab - Bay 3                              | 6                      | 09-Sep-24   | 14-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.20                    | Formworks, Rebar & Cast Base Slab - Bay 2                              | 6                      | 16-Sep-24   | 21-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.40                    | Formworks, Rebar & Cast Base Slab - Bay 4                              | 6                      | 16-Sep-24   | 21-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.50                    | Formworks, Rebar & Cast Base Slab - Bay 5                              | 6                      | 23-Sep-24   | 28-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.70                    | Formworks, Rebar & Cast Base Slab - Bay 7                              | 6                      | 23-Sep-24   | 28-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.60                    | Formworks, Rebar & Cast Base Slab - Bay 6                              | 6                      | 30-Sep-24   | 05-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.80                    | Formworks, Rebar & Cast Base Slab - Bay 8                              | 6                      | 30-Sep-24   | 05-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>RW8b - Wall Stem</b>       |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.90                    | Formworks, Rebar & Cast Wall Stem - Bay 1                              | 6                      | 16-Sep-24   | 21-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.110                   | Formworks, Rebar & Cast Wall Stem - Bay 3                              | 6                      | 16-Sep-24   | 21-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.100                   | Formworks, Rebar & Cast Wall Stem - Bay 2                              | 6                      | 23-Sep-24   | 28-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.120                   | Formworks, Rebar & Cast Wall Stem - Bay 4                              | 6                      | 23-Sep-24   | 28-Sep-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.130                   | Formworks, Rebar & Cast Wall Stem - Bay 5                              | 6                      | 30-Sep-24   | 05-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.150                   | Formworks, Rebar & Cast Wall Stem - Bay 7                              | 6                      | 30-Sep-24   | 05-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.140                   | Formworks, Rebar & Cast Wall Stem - Bay 6                              | 6                      | 07-Oct-24   | 12-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014800.160                   | Formworks, Rebar & Cast Wall Stem - Bay 8                              | 6                      | 07-Oct-24   | 12-Oct-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014810                       | Backfilling and removal of sheetpile                                   | 30                     | 14-Oct-24   | 16-Nov-24 | 94          |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Retaining Wall RW8a</b>    |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Preparaion Works RW8a</b>  |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014900                       | Impletment TTA, UU detection / trial pit / Utility Shifting or Hanging | 107                    | 13-May-24 A | 17-Sep-24 | 684         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014820                       | Installation of sheetpile  | 90                     | 19-Jun-24 A | 04-Oct-24 | -16         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014825                       | Excavation / ELS   | 60                     | 09-Sep-24   | 20-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>RW8a - Base Slab</b>       |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.10                    | Formworks, Rebar & Cast Base Slab - Bay 1                              | 6                      | 26-Sep-24   | 03-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.30                    | Formworks, Rebar & Cast Base Slab - Bay 3                              | 6                      | 26-Sep-24   | 03-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.20                    | Formworks, Rebar & Cast Base Slab - Bay 2                              | 6                      | 04-Oct-24   | 10-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.40                    | Formworks, Rebar & Cast Base Slab - Bay 4                              | 6                      | 04-Oct-24   | 10-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.50                    | Formworks, Rebar & Cast Base Slab - Bay 5                              | 6                      | 12-Oct-24   | 18-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.70                    | Formworks, Rebar & Cast Base Slab - Bay 7                              | 6                      | 12-Oct-24   | 18-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.60                    | Formworks, Rebar & Cast Base Slab - Bay 6                              | 6                      | 19-Oct-24   | 25-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.80                    | Formworks, Rebar & Cast Base Slab - Bay 8                              | 6                      | 19-Oct-24   | 25-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.90                    | Formworks, Rebar & Cast Base Slab - Bay 9                              | 6                      | 26-Oct-24   | 01-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.110                   | Formworks, Rebar & Cast Base Slab - Bay 11                             | 6                      | 26-Oct-24   | 01-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.100                   | Formworks, Rebar & Cast Base Slab - Bay 10                             | 6                      | 02-Nov-24   | 08-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.120                   | Formworks, Rebar & Cast Base Slab - Bay 12                             | 6                      | 02-Nov-24   | 08-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.130                   | Formworks, Rebar & Cast Base Slab - Bay 13                             | 6                      | 09-Nov-24   | 15-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.150                   | Formworks, Rebar & Cast Base Slab - Bay 15                             | 6                      | 09-Nov-24   | 15-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.140                   | Formworks, Rebar & Cast Base Slab - Bay 14                             | 6                      | 16-Nov-24   | 22-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.160                   | Formworks, Rebar & Cast Base Slab - Bay 16                             | 6                      | 16-Nov-24   | 22-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014830.170                   | Formworks, Rebar & Cast Base Slab - Bay 17                             | 6                      | 23-Nov-24   | 29-Nov-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>RW8a - Wall Stem</b>       |  |                        |             |           |             |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014835.10                    | Formworks, Rebar & Cast Wall Stem - Bay 1                              | 6                      | 04-Oct-24   | 10-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014835.30                    | Formworks, Rebar & Cast Wall Stem - Bay 3                              | 6                      | 04-Oct-24   | 10-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S014835.20                    | Formworks, Rebar & Cast Wall Stem - Bay 2                              | 6                      | 12-Oct-24   | 18-Oct-24 | -41         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
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- Primary Baseline
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |



Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID                             | Activity Name  | At Completion Duration | Start            | Finish           | Total Float | 2024      |    |    |         |    |    |          |    |    |          |    |    | 2025    |    |    |    |    |    |    |    |    |  |
|---|--|------------------------|------------------|------------------|-------------|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|---------|----|----|----|----|----|----|----|----|--|
|   |  |                        |                  |                  |             | September |    |    | October |    |    | November |    |    | December |    |    | January |    |    |    |    |    |    |    |    |  |
|   |  |                        |                  |                  |             | 25        | 01 | 08 | 15      | 22 | 29 | 06       | 13 | 20 | 27       | 03 | 10 | 17      | 24 | 01 | 08 | 15 | 22 | 29 | 05 | 12 |  |
| S014835.40                              | Formworks, Rebar & Cast Wall Stem - Bay 4  | 6                      | 12-Oct-24        | 18-Oct-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.50                              | Formworks, Rebar & Cast Wall Stem - Bay 5  | 6                      | 19-Oct-24        | 25-Oct-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.70                              | Formworks, Rebar & Cast Wall Stem - Bay 7  | 6                      | 19-Oct-24        | 25-Oct-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.60                              | Formworks, Rebar & Cast Wall Stem - Bay 6  | 6                      | 26-Oct-24        | 01-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.80                              | Formworks, Rebar & Cast Wall Stem - Bay 8  | 6                      | 26-Oct-24        | 01-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.90                              | Formworks, Rebar & Cast Wall Stem - Bay 9  | 6                      | 02-Nov-24        | 08-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.110                             | Formworks, Rebar & Cast Wall Stem - Bay 11   | 6                      | 02-Nov-24        | 08-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.100                             | Formworks, Rebar & Cast Wall Stem - Bay 10   | 6                      | 09-Nov-24        | 15-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.120                             | Formworks, Rebar & Cast Wall Stem - Bay 12   | 6                      | 09-Nov-24        | 15-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.130                             | Formworks, Rebar & Cast Wall Stem - Bay 13   | 6                      | 16-Nov-24        | 22-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.150                             | Formworks, Rebar & Cast Wall Stem - Bay 15   | 6                      | 16-Nov-24        | 22-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.140                             | Formworks, Rebar & Cast Wall Stem - Bay 14   | 6                      | 23-Nov-24        | 29-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.160                             | Formworks, Rebar & Cast Wall Stem - Bay 16   | 6                      | 23-Nov-24        | 29-Nov-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014835.170                             | Formworks, Rebar & Cast Wall Stem - Bay 17   | 6                      | 30-Nov-24        | 06-Dec-24        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014840                                 | Backfilling, Removal of Sheetpile & Reinstatement                                  | 35                     | 30-Nov-24        | 13-Jan-25        | -41         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Retaining Wall RW12</b>              |  | <b>31</b>              | <b>12-Oct-24</b> | <b>16-Nov-24</b> | <b>172</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014910                                 | UU detection / trial pit / Utility Shifting or Hanging                             | 6                      | 12-Oct-24        | 18-Oct-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014850                                 | Installation of sheetpile  | 5                      | 19-Oct-24        | 24-Oct-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014860                                 | Excavation and construction of Retaining Wall RW12(1bay)                           | 10                     | 25-Oct-24        | 05-Nov-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S014870                                 | Backfilling and removal of sheetpile   | 10                     | 06-Nov-24        | 16-Nov-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Retaining Wall RW13</b>              |  | <b>35</b>              | <b>19-Oct-24</b> | <b>28-Nov-24</b> | <b>172</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015110                                 | UU detection / trial pit / Utility Shifting or Hanging                             | 6                      | 19-Oct-24        | 25-Oct-24        | 176         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015100                                 | Installation of sheetpile  | 5                      | 26-Oct-24        | 31-Oct-24        | 176         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015140                                 | Excavation and construction of Retaining Wall RW13(1bay)                           | 10                     | 01-Nov-24        | 12-Nov-24        | 176         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015150                                 | Backfilling and removal of sheetpile   | 10                     | 18-Nov-24        | 28-Nov-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Retaining Wall RW14</b>              |  | <b>50</b>              | <b>26-Oct-24</b> | <b>23-Dec-24</b> | <b>172</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015165                                 | UU detection / trial pit / Utility Shifting or Hanging                             | 6                      | 26-Oct-24        | 01-Nov-24        | 195         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015155                                 | Installation of sheetpile  | 7                      | 29-Nov-24        | 06-Dec-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015160                                 | Excavation and construction of Retaining Wall RW14(1bay)                           | 14                     | 07-Dec-24        | 23-Dec-24        | 172         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Retaining Wall RW7</b>               |  | <b>35</b>              | <b>02-Nov-24</b> | <b>12-Dec-24</b> | <b>195</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200                                 | UU detection / trial pit / Utility Shifting or Hanging                             | 6                      | 02-Nov-24        | 08-Nov-24        | 195         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015175                                 | Construction of Retaining Wall RW7   | 21                     | 09-Nov-24        | 03-Dec-24        | 195         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015180                                 | Backfilling with light concrete  | 8                      | 04-Dec-24        | 12-Dec-24        | 195         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Retaining Wall RW10</b>              |  | <b>109</b>             | <b>09-Sep-24</b> | <b>13-Jan-25</b> | <b>-46</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Preparation Works RW10 - Stage 1</b> |  | <b>86</b>              | <b>09-Sep-24</b> | <b>17-Dec-24</b> | <b>-55</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015205                                 | Implement TTA  | 1                      | 09-Sep-24*       | 09-Sep-24        | -55         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015185                                 | Excavate and expose existing UUs / Shift or Hang UUs Clashing with Permanent Works | 60                     | 10-Sep-24        | 21-Nov-24        | -55         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015190                                 | Installation of sheetpile, Wailing & Struts  | 60                     | 25-Sep-24        | 05-Dec-24        | -55         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015195                                 | Excavation   | 60                     | 08-Oct-24        | 17-Dec-24        | -55         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Stage 1 - RW10 First 10 Bays</b>     |  | <b>36</b>              | <b>01-Nov-24</b> | <b>12-Dec-24</b> | <b>-19</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| <b>Stage 1 - RW10 - Base Slab</b>       |  | <b>36</b>              | <b>01-Nov-24</b> | <b>12-Dec-24</b> | <b>-19</b>  |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.05                              | Rockfill to Sub-base & Compaction plus Blinding (head start)                       | 12                     | 01-Nov-24        | 14-Nov-24        | -27         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.10                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 10                                 | 6                      | 15-Nov-24        | 21-Nov-24        | -27         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.30                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 8                                  | 6                      | 15-Nov-24        | 21-Nov-24        | -21         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.20                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 9                                  | 6                      | 22-Nov-24        | 28-Nov-24        | -27         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.40                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 7                                  | 6                      | 22-Nov-24        | 28-Nov-24        | -19         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.50                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 6                                  | 6                      | 29-Nov-24        | 05-Dec-24        | -19         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.70                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 4                                  | 6                      | 29-Nov-24        | 05-Dec-24        | -19         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.60                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 5                                  | 6                      | 06-Dec-24        | 12-Dec-24        | -19         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |
| S015200.80                              | Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 3                                  | 6                      | 06-Dec-24        | 12-Dec-24        | -19         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
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- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |









Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID   | Activity Name   | At Completion Duration | Start     | Finish    | Total Float | 2024      |    |    |    |         |    |    |    |          |    |    |    | 2025     |    |         |    |    |    |    |    |    |
|---|---|------------------------|-----------|-----------|-------------|-----------|----|----|----|---------|----|----|----|----------|----|----|----|----------|----|---------|----|----|----|----|----|----|
|   |   |                        |           |           |             | September |    |    |    | October |    |    |    | November |    |    |    | December |    | January |    |    |    |    |    |    |
|   |   |                        |           |           |             | 25        | 01 | 08 | 15 | 22      | 29 | 06 | 13 | 20       | 27 | 03 | 10 | 17       | 24 | 01      | 08 | 15 | 22 | 29 | 05 | 12 |
| S2A.PA.A101010  | Implement TTA to occupy existing NB traffic lane                                | 1                      | 08-Sep-24 | 08-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101020  | Excavate, shoring & blinding for 2 MHs  | 2                      | 09-Sep-24 | 10-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101030  | Fwk & concrete benching (2MHs)  | 1                      | 11-Sep-24 | 11-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101040  | Fwk & rebar for walls & top slab (2 MHs)  | 2                      | 12-Sep-24 | 13-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101050  | Concrete walls & top slab (2 MHs)   | 1                      | 14-Sep-24 | 14-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101060  | Excavate & shoring for pipe trench  | 2                      | 15-Sep-24 | 16-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101070  | Install DN750   | 1                      | 17-Sep-24 | 17-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101080  | Backfill DN750 pipe   | 1                      | 18-Sep-24 | 18-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101090  | Excavate & install gully former / gully pipe                                    | 5                      | 19-Sep-24 | 23-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101100  | Excavate, shoring & blinding for 2 MHs  | 2                      | 24-Sep-24 | 25-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101110  | Fwk & concrete benching (2MHs)  | 1                      | 26-Sep-24 | 26-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101120  | Fwk & rebar for walls & top slab (2 MHs)  | 2                      | 27-Sep-24 | 28-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101130  | Concrete walls & top slab (2 MHs)   | 1                      | 29-Sep-24 | 29-Sep-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101140  | Excavate & shoring for pipe trench  | 2                      | 30-Sep-24 | 01-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101150  | Install DN600   | 1                      | 02-Oct-24 | 02-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101160  | Backfill DN600 pipe   | 1                      | 03-Oct-24 | 03-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101170  | Excavate & install gully former / gully pipe                                    | 5                      | 04-Oct-24 | 08-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101180  | Excavate, shoring & blinding for 2 MHs  | 2                      | 09-Oct-24 | 10-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101260  | Excavate & shoring for pipe trench  | 2                      | 09-Oct-24 | 10-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101190  | Fwk & concrete benching (2MHs)  | 1                      | 11-Oct-24 | 11-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101270  | Install DN750   | 1                      | 11-Oct-24 | 11-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101280  | Backfill DN750 pipe   | 1                      | 12-Oct-24 | 12-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101200  | Fwk & rebar for walls & top slab (2 MHs)  | 2                      | 12-Oct-24 | 13-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101210  | Concrete walls & top slab (2 MHs)   | 1                      | 14-Oct-24 | 14-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101290  | Excavate & shoring for pipe trench  | 2                      | 13-Oct-24 | 14-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101300  | Install DN600   | 1                      | 15-Oct-24 | 15-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101220  | Excavate & shoring for pipe trench  | 2                      | 15-Oct-24 | 16-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101310  | Backfill DN600 pipe   | 1                      | 16-Oct-24 | 16-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101230  | Install DN600   | 1                      | 17-Oct-24 | 17-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101240  | Backfill DN600 pipe   | 1                      | 18-Oct-24 | 18-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101250  | Excavate & install gully former / gully pipe                                    | 5                      | 19-Oct-24 | 23-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101320  | Backfill & Compact to Footpath & road formation                                 | 7                      | 17-Oct-24 | 23-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101330  | Backfill & Compact Subbase for Footpath & road                                  | 1                      | 24-Oct-24 | 24-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101340  | Install road kerb   | 1                      | 25-Oct-24 | 25-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101360  | Place Roadbase for Carriageway  | 1                      | 26-Oct-24 | 26-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101370  | Breakout Gully area & install gully frame                                       | 2                      | 27-Oct-24 | 28-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101380  | Place base and wearing course   | 1                      | 29-Oct-24 | 29-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101390  | Apply road marking & open NB to public  | 1                      | 30-Oct-24 | 30-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101350  | Place sand layer & install paving block / tactile on footpath                   | 6                      | 26-Oct-24 | 31-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Footpath and Cycle Track Construction in front of BPW1</b>     |   | 36                     | 31-Oct-24 | 05-Dec-24 | 327         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101400  | Apply road marking & open SB to public  | 1                      | 31-Oct-24 | 31-Oct-24 | -36         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PA.A101410  | Breaking temp road surface and reconstruct O/S roadkerb, footpath & cycle track | 35                     | 01-Nov-24 | 05-Dec-24 | 327         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Portion B - CS2 to Meter CarPark Incl. LMCP CH100 to CH200</b> |   | 20                     | 08-Sep-24 | 27-Sep-24 | 835         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Area 2 - Works in Meter CarPark</b>                            |   | 20                     | 08-Sep-24 | 27-Sep-24 | 835         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Temp Road Diversion</b>  |   | 6                      | 08-Sep-24 | 13-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PB.A100160  | Place subbase / asphalt material / road marking for road works                  | 6                      | 08-Sep-24 | 13-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>UU Works incl. CLP and FNOs</b>                                |   | 17                     | 08-Sep-24 | 24-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PB.A100170  | Install drawpits with ducts (6nos)  | 4                      | 08-Sep-24 | 11-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PB.A100180  | Backfill trench and withdraw ELS  | 2                      | 12-Sep-24 | 13-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PB.A100190  | Excavate and install ELS for trench   | 7                      | 14-Sep-24 | 20-Sep-24 | 838         |           |    |    |    |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
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- Primary Baseline
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |







Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID  | Activity Name   | At Completion Duration | Start       | Finish    | Total Float | 2024      |             |           |     |         |    |    |    |          |    |    |    | 2025     |    |         |    |    |    |    |    |    |
|--|---|------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-----|---------|----|----|----|----------|----|----|----|----------|----|---------|----|----|----|----|----|----|
|  |   |                        |             |           |             | September |             |           |     | October |    |    |    | November |    |    |    | December |    | January |    |    |    |    |    |    |
|  |   |                        |             |           |             | 25        | 01          | 08        | 15  | 22      | 29 | 06 | 13 | 20       | 27 | 03 | 10 | 17       | 24 | 01      | 08 | 15 | 22 | 29 | 05 | 12 |
| S2A.PC.A101300   | Construct MH RM40000 top slab                                     | 6                      | 23-Sep-24   | 28-Sep-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101340   | 3 gullies for MH RM40000  | 3                      | 30-Sep-24   | 02-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101290   | DN450 RM40005 - RM40010 (Part 3)                                  | 4                      | 30-Sep-24   | 03-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101320   | Construct MH RM40020 top slab                                     | 6                      | 30-Sep-24   | 05-Oct-24 | -33         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101310   | Construct MH RM40010 top slab                                     | 7                      | 04-Oct-24   | 10-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101360   | 5 gullies for MH RM40020  | 5                      | 07-Oct-24   | 11-Oct-24 | -33         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101350   | 3 gullies for MH RM40010  | 4                      | 11-Oct-24   | 14-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101380   | Backfill RMH40000 - RM40010                                       | 7                      | 15-Oct-24   | 21-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101390   | Backfill RMH40010 - RM40020                                       | 7                      | 15-Oct-24   | 21-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101420   | Backfill RM40005 - RM40010 (Part 3)                               | 7                      | 15-Oct-24   | 21-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Permanent Road Works N/B</b>                              |   |                        |             |           |             | 21        | 11-Oct-24   | 31-Oct-24 | -36 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101440   | Subbase   | 12                     | 11-Oct-24   | 22-Oct-24 | -33         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101450   | Road kerb   | 10                     | 16-Oct-24   | 25-Oct-24 | -33         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101460   | Paving blocks   | 10                     | 21-Oct-24   | 30-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PC.A101430   | Asphalt pavement  | 10                     | 22-Oct-24   | 31-Oct-24 | -36         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Portion D - Kwan Yin Temple to Pai Lau CH300 to CH450</b> |   |                        |             |           |             | 39        | 02-Sep-24 A | 10-Oct-24 | 822 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Retaining Wall RW6</b>                                    |   |                        |             |           |             | 15        | 02-Sep-24 A | 16-Sep-24 | 839 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100024   | Backfill of RW6 Bay 1 - Bay 3 (Concurrent with drainage works)    | 15                     | 02-Sep-24 A | 16-Sep-24 | 839         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Drainage System (from NB16 South End to Pun Uk Tsuen)</b> |   |                        |             |           |             | 8         | 08-Sep-24   | 15-Sep-24 | 847 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100037   | Construct MH SMH50050 top slab                                    | 3                      | 08-Sep-24   | 10-Sep-24 | 840         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100028   | Backfill & Installation of Gullies to SMH50060 & SMH50070         | 7                      | 08-Sep-24   | 14-Sep-24 | 848         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100034   | Backfill & Installation of Gullies to SMH50020 & SMH50030         | 7                      | 08-Sep-24   | 14-Sep-24 | 848         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100038   | Backfill & Installation of Gullies to SMH50050                    | 5                      | 11-Sep-24   | 15-Sep-24 | 840         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>UU Works and Lighting</b>                                 |   |                        |             |           |             | 16        | 08-Sep-24   | 23-Sep-24 | 839 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100039   | UU works (After completion of RW6 Structure)                      | 7                      | 08-Sep-24   | 14-Sep-24 | 848         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100043   | Placement of precast drawpits and laying of lighting ducts        | 7                      | 08-Sep-24   | 14-Sep-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100044   | Installation of Lighting Poles                                    | 5                      | 15-Sep-24   | 19-Sep-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100041   | UU works (After completion of drainage)                           | 7                      | 17-Sep-24   | 23-Sep-24 | 839         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Cut Slope (CS3)</b>                                       |   |                        |             |           |             | 7         | 08-Sep-24   | 14-Sep-24 | 848 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100045   | Formation of cut slope CS3  | 7                      | 08-Sep-24   | 14-Sep-24 | 848         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>PW6A Shin Wall and Capping Beam (total 3 Bays)</b>        |   |                        |             |           |             | 22        | 08-Sep-24   | 29-Sep-24 | -13 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100049   | Concreting Bay 1 & Bay 3 base                                     | 1                      | 08-Sep-24   | 08-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100050   | Erection of formwork for base of skin wall Bay 2                  | 1                      | 09-Sep-24   | 09-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100051   | Concreting Bay 2 base   | 1                      | 10-Sep-24   | 10-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100052   | Erection of formwork for Bay 1                                    | 2                      | 11-Sep-24   | 12-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100053   | Concreting Bay 1  | 1                      | 13-Sep-24   | 13-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100054   | Erection of formwork for Bay 2                                    | 2                      | 14-Sep-24   | 15-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100055   | Concreting Bay 2  | 1                      | 16-Sep-24   | 16-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100056   | Erection of formwork for Bay 3                                    | 2                      | 17-Sep-24   | 18-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100057   | Concreting Bay 3  | 1                      | 19-Sep-24   | 19-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100058   | Capping Beam Construction   | 10                     | 20-Sep-24   | 29-Sep-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| <b>Road Works</b>  |   |                        |             |           |             | 26        | 15-Sep-24   | 10-Oct-24 | -15 |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100059   | Site formation for sub base, installation of kerbs & railings     | 10                     | 15-Sep-24   | 24-Sep-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100060   | Construction of 300 U-channel                                     | 10                     | 15-Sep-24   | 24-Sep-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100064   | Bituminous material paving for cycle track                        | 2                      | 30-Sep-24   | 01-Oct-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100065   | Painting for cycle track  | 1                      | 02-Oct-24   | 02-Oct-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100061   | Installation of root barrier and backfilling soil at amenity area | 4                      | 30-Sep-24   | 03-Oct-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100062   | Planting at amenity area  | 5                      | 04-Oct-24   | 08-Oct-24 | -13         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100066   | Permanent reinstatement of southbound bituminous pavement         | 7                      | 03-Oct-24   | 09-Oct-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |
| S2A.PD.A100067   | Road Marking  | 1                      | 10-Oct-24   | 10-Oct-24 | -15         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |         |    |    |    |    |    |    |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
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- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |













Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID   | Activity Name   | At Completion Duration | Start       | Finish    | Total Float | 2024      |    |    |         |    |    |          |    |    |          |    |    | 2025    |    |    |    |    |    |    |    |    |  |  |  |
|---|---|------------------------|-------------|-----------|-------------|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|---------|----|----|----|----|----|----|----|----|--|--|--|
|   |   |                        |             |           |             | September |    |    | October |    |    | November |    |    | December |    |    | January |    |    |    |    |    |    |    |    |  |  |  |
|   |   |                        |             |           |             | 25        | 01 | 08 | 15      | 22 | 29 | 06       | 13 | 20 | 27       | 03 | 10 | 17      | 24 | 01 | 08 | 15 | 22 | 29 | 05 | 12 |  |  |  |
| S2A.PH.A100085  | DN700 watermain (Stage 3 CPR E/B FP)  | 24                     | 30-Sep-24   | 29-Oct-24 | 641         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>CLP Works</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100081  | CLP 132kV cable duct laying (CPR W/B F/L)   | 9                      | 08-Sep-24   | 16-Sep-24 | 840         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100082  | CLP 132kV cable duct laying (CPR E/B FP)  | 5                      | 15-Oct-24   | 19-Oct-24 | -30         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100078  | CLP 132 KV Cale duct laying (CPR W/B FP)  | 24                     | 15-Oct-24   | 08-Nov-24 | -30         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100079  | CLP 132 KV Cale duct laying (CPR W/B SL)  | 9                      | 30-Oct-24   | 08-Nov-24 | 793         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Lighting and Road Works</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100088  | Road lighting ducting and drawpit   | 7                      | 09-Sep-24   | 16-Sep-24 | 683         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100090  | Construct directional sign footing  | 7                      | 09-Sep-24   | 16-Sep-24 | -4          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100086  | Traffic signal ducting and drawpit  | 5                      | 16-Sep-24   | 23-Sep-24 | 678         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100095  | Traffic signal duct across carriageway (13 stages night work)                                 | 5                      | 19-Oct-24   | 25-Oct-24 | -24         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100096  | FNO duct across carriageway (13 stages night work)  | 5                      | 19-Oct-24   | 25-Oct-24 | -24         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100091  | Lay kerb and paving block   | 14                     | 19-Oct-24   | 05-Nov-24 | -24         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100092  | Install new road lighting   | 7                      | 31-Oct-24   | 08-Nov-24 | 640         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2A.PH.A100093  | Install new traffic signal post   | 7                      | 31-Oct-24   | 08-Nov-24 | 640         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Section 2B of the Works-Completion of the Works at Junction of Castle Peak Road and Lok Ma Chau Road</b> |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Construction of Temp Cycle Track and Road Widening at CP Road (Delay Event #3)</b>                       |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S01.DE03.2  | Road Widening of CP Road for construction of ST01-P01 (Delay Event #3 Part 2) (PMI#20/CE#009) | 28                     | 14-Aug-24 A | 14-Sep-24 | 686         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Proposed EIBC to existing Box Culvert (PMI #44 request for quotation)</b>                                |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Integrated Box Culvert Structure Construction</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Stage 3 - Construction of Integrated Structure</b>   |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Base Slab</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1370   | Construction of Base Slab Bay 2 (2m thick)  | 14                     | 09-Sep-24   | 24-Sep-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Wall and Top Slab</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Wall &amp; Top Slab Detail</b>   |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1390   | Construction of Wall and Top Slab Bay 2   | 26                     | 28-Sep-24   | 28-Oct-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1400   | Remove external formworks and Backfill to underside with mass concrete                        | 5                      | 23-Oct-24   | 28-Oct-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Stage 4 - Construction of Cantilever Slab</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1420   | Remove Strut S1 and Cut sheet Pile (north side) for construction of Cantilever slab           | 3                      | 29-Oct-24   | 31-Oct-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1430   | Open cut excavation to formation level for construction of Cantilever Slab                    | 3                      | 01-Nov-24   | 04-Nov-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1440   | Blinding layer to Cantilever Slab   | 1                      | 05-Nov-24   | 05-Nov-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1450   | Formworks, Rebar & Cast Cantilever slab bay 1   | 7                      | 05-Nov-24   | 12-Nov-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1460   | Formworks, Rebar & Cast Cantilever slab bay 2   | 7                      | 13-Nov-24   | 20-Nov-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1470   | Backfill to ground level (compaction and testing) (assumed 5 layers at 1 wk per layer)        | 14                     | 21-Nov-24   | 06-Dec-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1410   | Remove Concrete Blocks (Overflow Barrier)   | 6                      | 07-Dec-24   | 13-Dec-24 | -77         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.EIBC.1480   | Remove sheet pile on the south side & reinstate area  | 7                      | 07-Dec-24   | 14-Dec-24 | -78         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Modification to Nullah at FBP-03</b>   |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Modification of Nullah to Facilitate Construction FBP-03</b>   |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2050   | Block half of Nullah to Facilitate Expansion of Nullah on the North-East Wall                 | 6                      | 09-Sep-24   | 14-Sep-24 | 84          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2110   | Substructure (Pilecap) for FB03 Completed   | 0                      |             | 16-Sep-24 | 138         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2060   | Install Sheet Pile and Demolish North-East Wall   | 20                     | 16-Sep-24   | 08-Oct-24 | 84          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2120   | Construction of Modified Nullah with Cantilever Wall  | 42                     | 17-Sep-24   | 04-Nov-24 | 138         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2070   | Excavate and Modification Works to North-East Base Slab & Wall (2 bays)                       | 41                     | 09-Oct-24   | 25-Nov-24 | 84          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2080   | Move Blocks to West Wall and Divert Water to North-East Side                                  | 6                      | 26-Nov-24   | 02-Dec-24 | 84          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.2090   | Demolish existing West Wall and Bacfill to form a Platform                                    | 20                     | 03-Dec-24   | 25-Dec-24 | 84          |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Proposed Flood Wall (Top level 6.3mPD)</b>   |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| <b>Proposed Flood Wall Bay 1</b>  |   |                        |             |           |             |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.3000   | Commence Proposed Flood Wall  | 0                      | 05-Nov-24   |           | 223         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |
| S2B.NM.3050   | Install Sheet Pile  | 6                      | 05-Nov-24   | 11-Nov-24 | 223         |           |    |    |         |    |    |          |    |    |          |    |    |         |    |    |    |    |    |    |    |    |  |  |  |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
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- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |







Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID  | Activity Name  | At Completion Duration | Start       | Finish    | Total Float | 2024      |             |           |     |         |    |    |    |          |    |    |    | 2025     |    |    |    |         |    |    |    |    |
|--|--|------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-----|---------|----|----|----|----------|----|----|----|----------|----|----|----|---------|----|----|----|----|
|  |  |                        |             |           |             | September |             |           |     | October |    |    |    | November |    |    |    | December |    |    |    | January |    |    |    |    |
|  |  |                        |             |           |             | 25        | 01          | 08        | 15  | 22      | 29 | 06 | 13 | 20       | 27 | 03 | 10 | 17       | 24 | 01 | 08 | 15      | 22 | 29 | 05 | 12 |
| S2B2190  | Implement TTA Stage 4 (Crossing CP road)   | 1                      | 15-Oct-24   | 15-Oct-24 | -39         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2210  | Install CLP 132KV Ducting at juncton of LMC and CP Road (Road Crossing at Castle Peak Road)        | 4                      | 16-Oct-24   | 19-Oct-24 | -39         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2300  | Implement TTA to Footpath  | 1                      | 21-Oct-24   | 21-Oct-24 | -39         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2310  | Install CLP 132KV Ducting at Castle Peak Rd Footpath (Remaining)                                   | 4                      | 22-Oct-24   | 25-Oct-24 | -39         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>CLP 11kv (approx. 153m)</b>   |  |                        |             |           |             | 20        | 26-Sep-24   | 21-Oct-24 | -35 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2360  | Implement TTA Stage 1 (along footpath)   | 1                      | 26-Sep-24   | 26-Sep-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2370  | Install CLP 11kv Cable at juncton of LMC and CP Road (60m)   | 4                      | 27-Sep-24   | 02-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2380  | Implement TTA Stage 2 (Road Crossing)  | 1                      | 03-Oct-24   | 03-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2390  | Install CLP 11kv Cable at juncton of LMC and CP Road (30m)   | 4                      | 04-Oct-24   | 08-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2400  | Implement TTA Stage 3 (Road Crossing)  | 1                      | 09-Oct-24   | 09-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2410  | Install CLP 11kv Cable at juncton of LMC and CP Road (30m)   | 4                      | 10-Oct-24   | 15-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2420  | Implement TTA Stage 4 (Crossing CP road)   | 1                      | 16-Oct-24   | 16-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2430  | Install CLP 11kv Cable at juncton of LMC and CP Road (33m)   | 4                      | 17-Oct-24   | 21-Oct-24 | -35         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Telecom Duct Works (By Others) (approx 237m)</b>  |  |                        |             |           |             | 30        | 30-Sep-24   | 05-Nov-24 | -53 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2070  | Implement TTA Stage 1  | 1                      | 30-Sep-24   | 30-Sep-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B1115  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)                               | 4                      | 02-Oct-24   | 05-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2220  | Implement TTA Stage 2  | 1                      | 07-Oct-24   | 07-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2230  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)                               | 4                      | 08-Oct-24   | 12-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2240  | Implement TTA Stage 3  | 1                      | 14-Oct-24   | 14-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2250  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)                               | 4                      | 15-Oct-24   | 18-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2260  | Implement TTA Stage 4  | 1                      | 19-Oct-24   | 19-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2270  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)                               | 4                      | 21-Oct-24   | 24-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2320  | Implement TTA Stage 5  | 1                      | 25-Oct-24   | 25-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2330  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)                               | 4                      | 26-Oct-24   | 30-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2340  | Implement TTA Stage 6  | 1                      | 31-Oct-24   | 31-Oct-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2B2350  | Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (37m)                               | 4                      | 01-Nov-24   | 05-Nov-24 | -53         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Road Works and Footpath at Portion 10</b>   |  |                        |             |           |             | 40        | 04-Oct-24   | 19-Nov-24 | -56 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Road Works at North Side of Castle Peak Road</b>  |  |                        |             |           |             | 14        | 21-Oct-24   | 05-Nov-24 | -44 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2A.Z6.6640  | Backfill, Road Formation/Road Widening and Paving Works  | 14                     | 21-Oct-24   | 05-Nov-24 | -44         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Road Works at South Side of Castle Peak Road</b>  |  |                        |             |           |             | 40        | 04-Oct-24   | 19-Nov-24 | -56 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2A.Z6.6710  | Backfill, Road Formation/Road Widening and Paving Works  | 28                     | 04-Oct-24   | 05-Nov-24 | -56         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2A.Z6.6720  | Footpath, Hardscape and Landscape Works (within Portion 10 area)                                   | 22                     | 25-Oct-24   | 19-Nov-24 | -56         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Section 2C of the Works- Completion of Substructure and Piling Works of ST01 and CTFB</b> |  |                        |             |           |             | 177       | 31-May-24 A | 23-Dec-24 | 641 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02C840  | Planned completion of Section 2C of the works  | 0                      |             | 18-Nov-24 | 671         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S2C.KD.1010  | Completion Substructures and Piling works of ST01 and CTFB within Portion 1,5,7 and 10 of the Site | 0                      |             | 18-Nov-24 | 671         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Substructure and Piling Works for Bridge ST01</b>   |  |                        |             |           |             | 175       | 31-May-24 A | 20-Dec-24 | 643 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Piling Works</b>  |  |                        |             |           |             | 118       | 31-May-24 A | 21-Oct-24 | 658 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Installation of bored piles for Pier ST01-P01</b>   |  |                        |             |           |             | 118       | 31-May-24 A | 21-Oct-24 | -68 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3535  | Piling Platform Erection   | 87                     | 31-May-24 A | 11-Sep-24 | -70         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3540  | Installation of bored piles for Pier ST01-P01 (2 nos) (CSD changed to 1 bored pile)                | 21                     | 12-Sep-24   | 08-Oct-24 | -70         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3560  | Sonic test and interface core  | 3                      | 18-Oct-24   | 21-Oct-24 | -68         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Installation of bored piles for Abutment ST01-B01</b>                                     |  |                        |             |           |             | 78        | 16-Jul-24 A | 17-Oct-24 | 661 |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3500  | Stage 1 - Installation of bored piles for Abutment ST01-B01 (1st 2 nos.)                           | 53                     | 16-Jul-24 A | 14-Sep-24 | -64         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3510  | Stage 2 - Installation of bored piles for Abutment ST01-B01 (2nd 2 nos.)                           | 15                     | 16-Sep-24   | 04-Oct-24 | -64         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3520  | Sonic test and interface core  | 3                      | 15-Oct-24   | 17-Oct-24 | 661         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>Pilehead Treatment,Pile Cap and Pier/Abutment Construction</b>                            |  |                        |             |           |             | 95        | 02-Sep-24 A | 20-Dec-24 | 8   |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| <b>At Pier ST01-P01</b>  |  |                        |             |           |             | 35        | 09-Oct-24   | 18-Nov-24 | 21  |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP3990  | Installation of ELS  | 6                      | 09-Oct-24   | 15-Oct-24 | -72         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |
| S02CP4000  | Excavation and pilehead treatment  | 6                      | 16-Oct-24   | 22-Oct-24 | -72         |           |             |           |     |         |    |    |    |          |    |    |    |          |    |    |    |         |    |    |    |    |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
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- Primary Baseline
- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |















Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

| Activity ID                          | Activity Name  | At Completion Duration | Start     | Finish    | Total Float | 2024      |           |           |         |    |    |          |    |    |          |    |    | 2025    |    |    |  |    |    |    |    |    |
|--------------------------------------|--|------------------------|-----------|-----------|-------------|-----------|-----------|-----------|---------|----|----|----------|----|----|----------|----|----|---------|----|----|--|----|----|----|----|----|
|                                      |  |                        |           |           |             | September |           |           | October |    |    | November |    |    | December |    |    | January |    |    |  |    |    |    |    |    |
|                                      |  |                        |           |           |             | 25        | 01        | 08        | 15      | 22 | 29 | 06       | 13 | 20 | 27       | 03 | 10 | 17      | 24 | 01 | 08   | 15 | 22 | 29 | 05 | 12 |
| <b>At Pier DRL-P07</b>               |  |                        |           |           |             | 14        | 15-Nov-24 | 30-Nov-24 | -25     |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S032940                              | Erection of T-Span at Pier DRL-P07 (14 segments) (incl.stressing of C-tendons)     | 14                     | 15-Nov-24 | 30-Nov-24 | -25         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of T-Span at Pier DRL-P07 (14 segments)                                   |    |    |    |    |    |
| <b>At Pier DRL-P06</b>               |  |                        |           |           |             | 13        | 30-Nov-24 | 14-Dec-24 | -25     |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033140                              | Implement TTA  | 1                      | 30-Nov-24 | 30-Nov-24 | -25         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Implement TTA  |    |    |    |    |    |
| S032970                              | Erection of T-Span at Pier DRL-P06 (14 segments) (incl.stressing of C-tendons)     | 12                     | 02-Dec-24 | 14-Dec-24 | -25         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of T-Span at Pier DRL-P06 (14 segments)                                   |    |    |    |    |    |
| <b>At Pier DRL-P05</b>               |  |                        |           |           |             | 29        | 21-Oct-24 | 22-Nov-24 | 4       |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| <b>End Span in Bridge B</b>          |  |                        |           |           |             | 29        | 21-Oct-24 | 22-Nov-24 | 4       |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033000                              | Erection of End Span at Pier DRL-P05 (5 segments) of Bridge B                      | 14                     | 21-Oct-24 | 05-Nov-24 | 6           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of End Span at Pier DRL-P05 (5 segments) of Bridge B                      |    |    |    |    |    |
| S033600                              | Bearing Engage   | 6                      | 16-Nov-24 | 22-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Bearing Engage   |    |    |    |    |    |
| <b>At Pier DRL-P04</b>               |  |                        |           |           |             | 39        | 02-Oct-24 | 15-Nov-24 | 4       |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033030                              | Erection of T-Span at Pier DRL-P04 (20 segments) (incl.stressing of C-tendons)     | 12                     | 02-Oct-24 | 15-Oct-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of T-Span at Pier DRL-P04 (20 segments) (incl.stressing of C-tendons)     |    |    |    |    |    |
| S033040                              | Cast In-situ stitch P04-P05  | 4                      | 08-Nov-24 | 12-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Cast In-situ stitch P04-P05  |    |    |    |    |    |
| S033050                              | Stressing and grouting of S Bottom Tendons P04-P05                                 | 3                      | 13-Nov-24 | 15-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Stressing and grouting of S Bottom Tendons P04-P05                                 |    |    |    |    |    |
| <b>At Pier DRL-P03</b>               |  |                        |           |           |             | 67        | 16-Sep-24 | 02-Dec-24 | 4       |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033060                              | Erection of T-Span at Pier DRL-P03 (20 segments) (incl.stressing of C-tendons)     | 14                     | 16-Sep-24 | 01-Oct-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of T-Span at Pier DRL-P03 (20 segments) (incl.stressing of C-tendons)     |    |    |    |    |    |
| S033070                              | Cast In-situ stitch P03-P04  | 4                      | 23-Nov-24 | 27-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Cast In-situ stitch P03-P04  |    |    |    |    |    |
| S033080                              | Stressing and grouting of S & E Bottom Tendons P03-P04                             | 4                      | 28-Nov-24 | 02-Dec-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Stressing and grouting of S & E Bottom Tendons P03-P04                             |    |    |    |    |    |
| <b>At Pier DRL-P02</b>               |  |                        |           |           |             | 59        | 16-Oct-24 | 23-Dec-24 | 4       |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033090                              | Erection of end segments at Pier DRL-P02 (10 segments Incl DRL- B)                 | 13                     | 16-Oct-24 | 30-Oct-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of end segments at Pier DRL-P02 (10 segments Incl DRL- B)                 |    |    |    |    |    |
| S033100                              | Cast In-situ stitch P02-P03  | 4                      | 31-Oct-24 | 04-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Cast In-situ stitch P02-P03  |    |    |    |    |    |
| S033260                              | Install Bearings and Release Fixity at Pier P02                                    | 4                      | 31-Oct-24 | 04-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Install Bearings and Release Fixity at Pier P02                                    |    |    |    |    |    |
| S033110                              | Stressing and grouting of S & E Bottom Tendons P02-P03                             | 3                      | 05-Nov-24 | 07-Nov-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Stressing and grouting of S & E Bottom Tendons P02-P03                             |    |    |    |    |    |
| S033150                              | Stress External Tendon - Bridge B  | 18                     | 03-Dec-24 | 23-Dec-24 | 4           |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Stress External Tendon   |    |    |    |    |    |
| <b>At Abutment DRL-A01</b>           |  |                        |           |           |             | 58        | 03-Oct-24 | 09-Dec-24 | -10     |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033240                              | Falseworks at Abutment A01 End Span  | 6                      | 03-Oct-24 | 09-Oct-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Falseworks at Abutment A01 End Span  |    |    |    |    |    |
| S033520                              | Pierhead Segment Erection (A01D0)  | 6                      | 10-Oct-24 | 16-Oct-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Pierhead Segment Erection (A01D0)  |    |    |    |    |    |
| S033530                              | Falseworks Erection after Pierhead Erection at A01                                 | 6                      | 17-Oct-24 | 23-Oct-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Falseworks Erection after Pierhead Erection at A01                                 |    |    |    |    |    |
| S033540                              | In-situ diaphragm casting (A01D0) at Pier A01                                      | 0                      | 24-Oct-24 | 24-Oct-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | In-situ diaphragm casting (A01D0) at Pier A01                                      |    |    |    |    |    |
| S033550                              | A01D0 Falseworks Modification  | 14                     | 24-Oct-24 | 08-Nov-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | A01D0 Falseworks Modification  |    |    |    |    |    |
| S033200                              | Erection of end segments at Abutment A01(7 segments) (incl.stressing of C-tendons) | 14                     | 09-Nov-24 | 25-Nov-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Erection of end segments at Abutment A01(7 segments) (incl.stressing of C-tendons) |    |    |    |    |    |
| S033290                              | Install Bearings at Abutment A01   | 12                     | 26-Nov-24 | 09-Dec-24 | -10         |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Install Bearings at Abutment A01   |    |    |    |    |    |
| <b>In-situ Deck for DRL Bridge-A</b> |  |                        |           |           |             | 72        | 16-Oct-24 | 07-Jan-25 | 12      |    |    |          |    |    |          |    |    |         |    |    |  |    |    |    |    |    |
| S033390                              | False Work for DRL-P02 to P01 (Bridge-A)   | 20                     | 16-Oct-24 | 07-Nov-24 | 12          |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | False Work for DRL-P02 to P01 (Bridge-A)   |    |    |    |    |    |
| S033230                              | Construction of bridge deck for Bridge-A   | 52                     | 08-Nov-24 | 07-Jan-25 | 12          |           |           |           |         |    |    |          |    |    |          |    |    |         |    |    | Construction of bridge deck for Bridge-A   |    |    |    |    |    |

Three Months Rolling Programme (Data Date : 08-Sep-24)  
 Period: 08-Sep-24 to 08-Dec-2024  
 Page : 20 of 20

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

| 3 Months Rolling Programme |          |         |          |
|----------------------------|----------|---------|----------|
| Date                       | Revision | Checked | Approved |
| 08-Jan-23                  | Rev.2.1k | DL      | RP/RS    |
| 22-Aug-23                  | Rev.3.0b | SLX     | RP/RS    |
| 14-Dec-23                  | Rev.3.0d | SLX     | RP/RS    |
| 27-May-24                  | Rev.3.0e | SLX     | RP/RS    |



**Contract No. YL/2021/01 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 3 Direct Road**

**Link Phase 2**











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**APPENDIX B  
ACTION AND LIMIT LEVELS**

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## Appendix B - Action and Limit Levels

**Table B-1 Action and Limit Levels for 1-Hour TSP**

| Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|----------|--|---------------------------------------|
| DMS – 1a | 353                                    | 500                                   |
| DMS – 2A | 370                                    |                                       |
| DMS – 3  | 351                                    |                                       |
| DMS – 4A | 350                                    |                                       |

**Table B-2 Action and Limit Levels for 24-Hour TSP**

| Location | Action Level, $\mu\text{g}/\text{m}^3$ | Limit Level, $\mu\text{g}/\text{m}^3$ |
|----------|--|---------------------------------------|
| DMS – 1  | 184                                    | 260                                   |
| DMS – 2A | 166                                    |                                       |
| DMS – 3  | 166                                    |                                       |
| DMS – 4A | 152                                    |                                       |

**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 Action and Limit Levels for Water Quality**

| <b>Parameter (unit)</b> | <b>Water Depth</b> | <b>Action Level</b>   | <b>Limit Level</b>  |
|-------------------------|--------------------|---|---|
| DO (mg/L)               | Depth average      | IS1: <u>7.0 / NA</u> <sup>(4)</sup><br>IS2: <u>5.3 / NA</u> <sup>(4)</sup><br>IS4: <u>4.1 / NA</u> <sup>(4)</sup><br>IS6: <u>5.9</u><br>BS1: <u>3.9 / NA</u> <sup>(4)</sup> | IS1: <u>6.8 or 4</u> <sup>(4)</sup><br>IS2: <u>5.2 or 4</u> <sup>(4)</sup><br>IS4: <u>3.8 or 4</u> <sup>(4)</sup><br>IS6: <u>5.8</u><br>BS1: <u>3.7 or 4</u> <sup>(4)</sup> |
| Turbidity (NTU)         | Depth average      | IS1: <u>27.7</u><br>IS2: <u>35.5</u><br>IS4: <u>70.9</u><br>BS1: <u>29.9</u>  | IS1: <u>29.9</u><br>IS2: <u>38.1</u><br>IS4: <u>74.6</u><br>BS1: <u>32.6</u>  |
|                         |                    | IS6: 120% of upstream control station (CS5)   | IS6: 130% of upstream control station (CS5)   |
| SS (mg/L)               | Depth average      | IS1: <u>28.0</u><br>IS2: <u>39.8</u><br>IS4: <u>155</u><br>BS1: <u>36.5</u>   | IS1: <u>28.8</u><br>IS2: <u>41.2</u><br>IS4: <u>175</u><br>BS1: <u>36.9</u>   |
|                         |                    | IS6: 120% of upstream control station (CS5)   | IS6: 130% of upstream control station (CS5)   |

Note:

- (1) Depth-averaged was calculated by taking the arithmetic means of reading of all three depths
- (2) For DO, non-compliance of the water quality limit would occur when monitoring result at impact stations was lower than the limit.
- (3) For SS & turbidity, non-compliance of the water quality limits would occur when monitoring result at impact stations was higher than the limits.
- (4) The proposal of adopting 4 mg/L as the Limit Level of DO for the period from April to September due to seasonal change of DO was accepted by EPD via email on 10 Dec 2019.



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**APPENDIX C  
COPIES OF CALIBRATION  
CERTIFICATES**

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# 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  |
| <b>QSTD</b>     | m=            | <b>2.08157</b>   | <b>QA</b> | m=          | <b>1.30344</b>  |
|                 | b=            | <b>-0.02865</b>  |           | b=          | <b>-0.01780</b>   |
|                 | r=            | <b>0.99981</b>   |           | r=          | <b>0.99981</b>  |

| Calculations  |  |
|---|--|
| Vstd= $\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$                                 | Va= $\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$                                 |
| 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 |

**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 40696B     |
| Date of Issue:   | 2024-07-15 |
| Date Received:   | 2024-07-12 |
| Date Tested:     | 2024-07-12 |
| Date Completed:  | 2024-07-15 |
| Next Due Date:   | 2024-09-14 |

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) | 1.112 |
|-------------------------|-------|

\*\*\*\*\*

*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: | 12-Jul-24                        | 12-Jul-24           |
| Location:         | Wellab Office (Calibration Room) |                     |

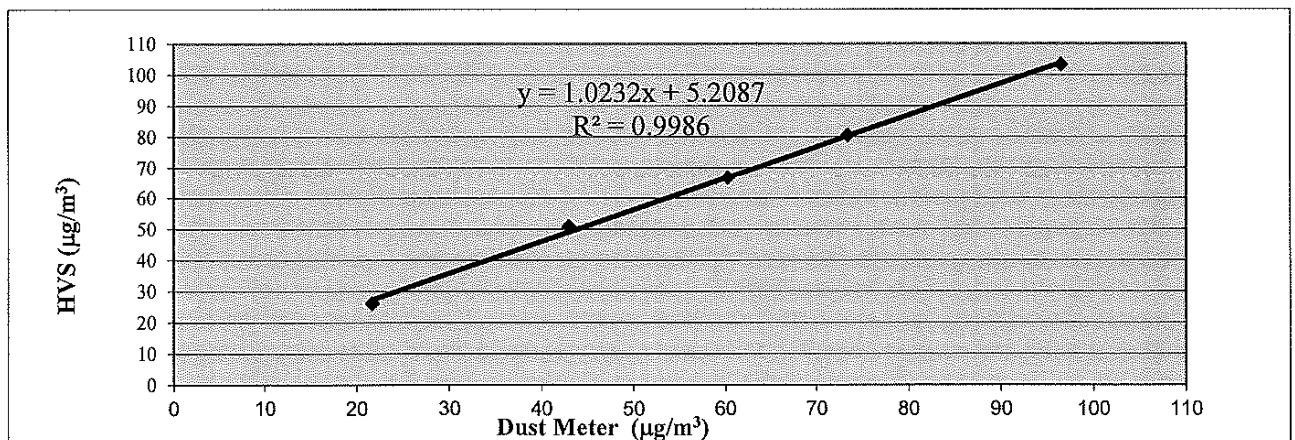
| Calibration of 1 hr TSP |   |   |
|-------------------------|---|---|
| Calibration Point       | Dust Meter  | HVS   |
|                         | Mass Concentration ( $\mu\text{g}/\text{m}^3$ )<br>X-axis | Mass concentration ( $\mu\text{g}/\text{m}^3$ )<br>Y-axis |
| 1                       | 22  | 26  |
| 2                       | 43  | 51  |
| 3                       | 60  | 67  |
| 4                       | 74  | 81  |
| 5                       | 97  | 103   |
| <b>Average</b>          | <b>59.0</b>   | <b>65.6</b>   |

By Linear Regression of Y on X

Slope, mw = 1.0232 Intercept, bw = 5.2087  
Correlation coefficient\* = 0.9993

\*If Correlation Coefficient < 0.90, check and recalibrate.

| Set Correlation Factor   |              |
|--|--------------|
| Particulate Concentration by High Volume Sampler ( $\mu\text{g}/\text{m}^3$ )          | 65.6         |
| Particulate Concentration by Dust Meter ( $\mu\text{g}/\text{m}^3$ )                   | 59.0         |
| Measuring time, (min)  | 60           |
| Set Correlation Factor, SCF  |              |
| SCF = $[K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)]$ | <u>1.112</u> |



QC Reviewer: LBB MAM HEB Signature: hes Date: 13/7/2024

**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 41075B     |
| Date of Issue:   | 2024-09-16 |
| Date Received:   | 2024-09-13 |
| Date Tested:     | 2024-09-13 |
| Date Completed:  | 2024-09-16 |
| Next Due Date:   | 2024-11-15 |

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) | 1.127 |
|-------------------------|-------|

\*\*\*\*\*

*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-Sep-24                        | 13-Sep-24           |
| Location:         | Wellab Office (Calibration Room) |                     |

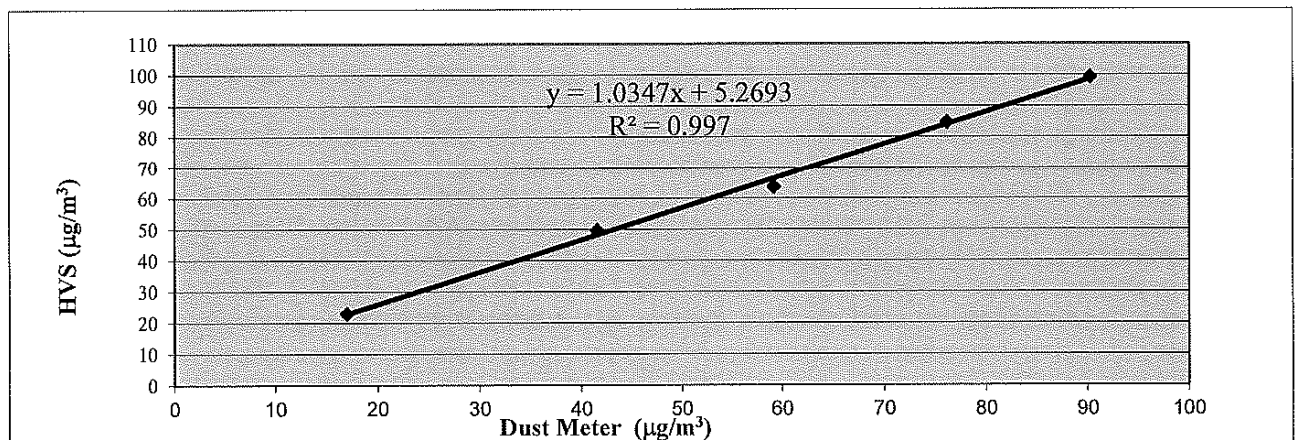
| Calibration of 1 hr TSP |   |   |
|-------------------------|---|---|
| Calibration Point       | Dust Meter  | HVS   |
|                         | Mass Concentration ( $\mu\text{g}/\text{m}^3$ )<br>X-axis | Mass concentration ( $\mu\text{g}/\text{m}^3$ )<br>Y-axis |
| 1                       | 17  | 23  |
| 2                       | 42  | 50  |
| 3                       | 59  | 64  |
| 4                       | 76  | 85  |
| 5                       | 90  | 99  |
| <b>Average</b>          | <b>56.9</b>   | <b>64.1</b>   |

By Linear Regression of Y on X  
 Slope, mw = 1.0347 Intercept, bw = 5.2693  
 Correlation coefficient\* = 0.9985

\*If Correlation Coefficient < 0.90, check and recalibrate.

| Set Correlation Factor  |      |
|---|------|
| Particulate Concentration by High Volume Sampler ( $\mu\text{g}/\text{m}^3$ ) | 64.1 |
| Particulate Concentration by Dust Meter ( $\mu\text{g}/\text{m}^3$ )          | 56.9 |
| Measuring time, (min)   | 60   |

Set Correlation Factor, SCF  
 SCF = [ K=High Volume Sampler / Dust Meter, ( $\mu\text{g}/\text{m}^3$ ) ] 1.127



QC Reviewer: BJJ MAN HAZ Signature: he Date: 14/9/2024

**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 40696C     |
| Date of Issue:   | 2024-07-15 |
| Date Received:   | 2024-07-12 |
| Date Tested:     | 2024-07-12 |
| Date Completed:  | 2024-07-15 |
| Next Due Date:   | 2024-09-14 |

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) | 1.106 |
|-------------------------|-------|

\*\*\*\*\*

*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: | 12-Jul-24                        | 12-Jul-24           |
| Location:         | Wellab Office (Calibration Room) |                     |

| Calibration of 1 hr TSP |   |   |
|-------------------------|---|---|
| Calibration Point       | Dust Meter  | HVS   |
|                         | Mass Concentration ( $\mu\text{g}/\text{m}^3$ )<br>X-axis | Mass concentration ( $\mu\text{g}/\text{m}^3$ )<br>Y-axis |
| 1                       | 20  | 26  |
| 2                       | 42  | 51  |
| 3                       | 63  | 67  |
| 4                       | 75  | 81  |
| 5                       | 97  | 103   |
| <b>Average</b>          | <b>59.3</b>   | <b>65.6</b>   |

By Linear Regression of Y on X

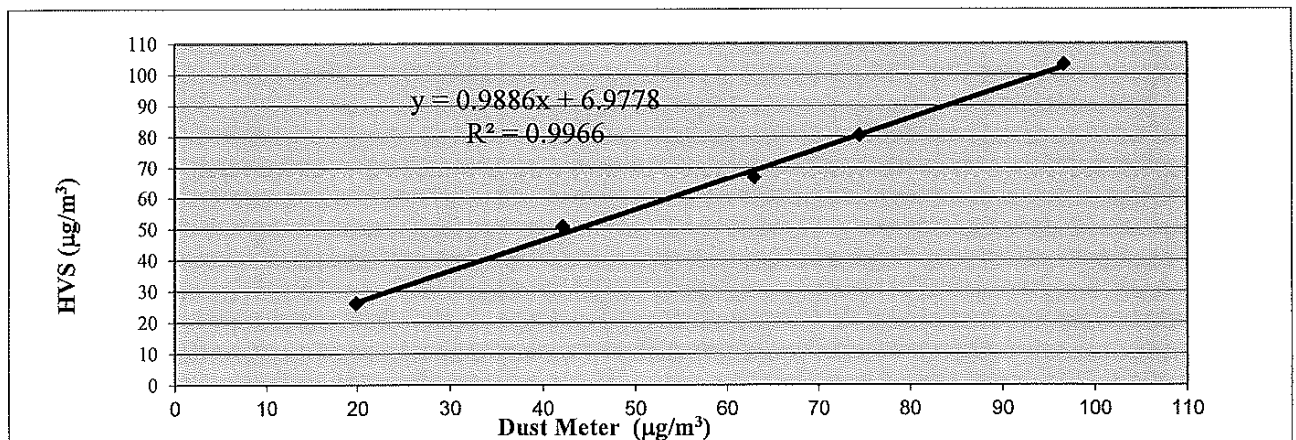
Slope,  $m_w =$  0.9886      Intercept,  $b_w =$  6.9778  
 Correlation coefficient\* = 0.9983

\*If Correlation Coefficient < 0.90, check and recalibrate.

| Set Correlation Factor  |      |
|---|------|
| Particulate Concentration by High Volume Sampler ( $\mu\text{g}/\text{m}^3$ ) | 65.6 |
| Particulate Concentration by Dust Meter ( $\mu\text{g}/\text{m}^3$ )          | 59.3 |
| Measuring time, (min)   | 60   |

Set Correlation Factor, SCF

SCF = [  $K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)$  ]      1.106



QC Reviewer: LBB MAN HBZ      Signature: hes      Date: 13/7/2024



**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 41075C     |
| Date of Issue:   | 2024-09-16 |
| Date Received:   | 2024-09-13 |
| Date Tested:     | 2024-09-13 |
| Date Completed:  | 2024-09-16 |
| Next Due Date:   | 2024-11-15 |

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) | 1.173 |
|-------------------------|-------|

\*\*\*\*\*

*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-Sep-24                        | 13-Sep-24           |
| Location:         | Wellab Office (Calibration Room) |                     |

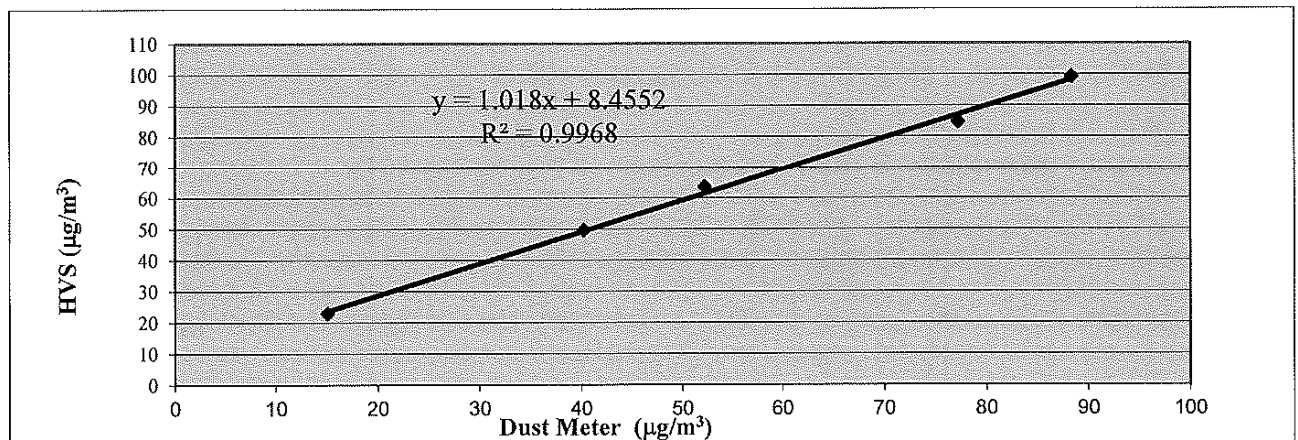
| Calibration of 1 hr TSP |   |   |
|-------------------------|---|---|
| Calibration Point       | Dust Meter  | HVS   |
|                         | Mass Concentration ( $\mu\text{g}/\text{m}^3$ )<br>X-axis | Mass concentration ( $\mu\text{g}/\text{m}^3$ )<br>Y-axis |
| 1                       | 15  | 23  |
| 2                       | 40  | 50  |
| 3                       | 52  | 64  |
| 4                       | 77  | 85  |
| 5                       | 88  | 99  |
| <b>Average</b>          | <b>54.7</b>   | <b>64.1</b>   |

By Linear Regression of Y on X  
 Slope, mw = 1.0180 Intercept, bw = 8.4552  
 Correlation coefficient\* = 0.9984

\*If Correlation Coefficient < 0.90, check and recalibrate.

| Set Correlation Factor  |      |
|---|------|
| Particulate Concentration by High Volume Sampler ( $\mu\text{g}/\text{m}^3$ ) | 64.1 |
| Particulate Concentration by Dust Meter ( $\mu\text{g}/\text{m}^3$ )          | 54.7 |
| Measuring time, (min)   | 60   |

Set Correlation Factor, SCF  
 $\text{SCF} = |K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3) |$  1.173



QC Reviewer: BBB MDR 11/22 Signature: he Date: 14/9/2024

**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 40841      |
| Date of Issue:   | 2024-08-26 |
| Date Received:   | 2024-08-23 |
| Date Tested:     | 2024-08-23 |
| Date Completed:  | 2024-08-26 |
| Next Due Date:   | 2024-10-25 |

Page: 1 of 1

**ATTN:** Ms. Meiling Tang

|                                   |
|-----------------------------------|
| <b>Certificate of Calibration</b> |
|-----------------------------------|

**Item for Calibration:**

Description : Dust Monitor  
 Manufacturer : Met One Instruments  
 Model No. : AEROCET-831  
 Serial No. : X24476  
 Flow rate : 0.1 cfm  
 Zero Count Test : 0 count per 1 minute  
 Equipment No. : WA-01-05

**Test Conditions:**

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

**Test Specifications & Methodology:**

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

**Results:**

|                         |       |
|-------------------------|-------|
| Correlation Factor (CF) | 1.132 |
|-------------------------|-------|

\*\*\*\*\*

*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-01-05                         | WA-12-09            |
| Model No. :       | AEROCET-831                      | TE-5170             |
| Serial No.        | X24476                           | 2203                |
| Calibration Date: | 23-Aug-24                        | 23-Aug-24           |
| Location:         | Wellab Office (Calibration Room) |                     |

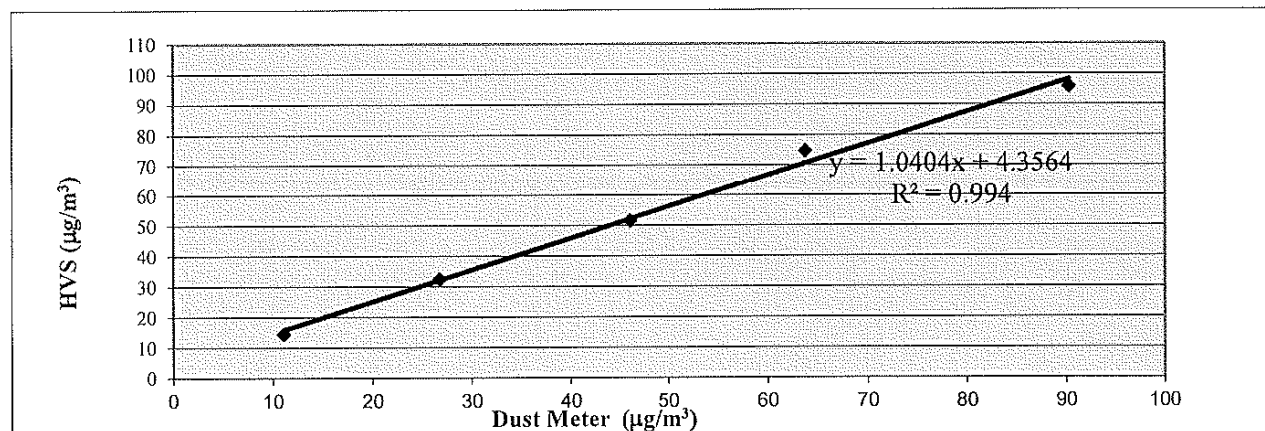
| Calibration of 1 hr TSP |   |   |
|-------------------------|---|---|
| Calibration Point       | Dust Meter  | HVS   |
|                         | Mass Concentration ( $\mu\text{g}/\text{m}^3$ )<br>X-axis | Mass concentration ( $\mu\text{g}/\text{m}^3$ )<br>Y-axis |
| 1                       | 11  | 15  |
| 2                       | 27  | 33  |
| 3                       | 46  | 52  |
| 4                       | 64  | 75  |
| 5                       | 90  | 96  |
| Average                 | 47.6  | 53.9  |

By Linear Regression of Y on X  
 Slope, mw = 1.0404 Intercept, bw = 4.3564  
 Correlation coefficient\* = 0.9970

\*If Correlation Coefficient < 0.90, check and recalibrate.

| Set Correlation Factor  |      |
|---|------|
| Particulate Concentration by High Volume Sampler ( $\mu\text{g}/\text{m}^3$ ) | 53.9 |
| Particulate Concentration by Dust Meter ( $\mu\text{g}/\text{m}^3$ )          | 47.6 |
| 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: W. M. W. 1/1/24 Signature: he Date: 24/8/2024

**TEST REPORT**

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

|                  |            |
|------------------|------------|
| Test Report No.: | 39950B     |
| Date of Issue:   | 2024-03-04 |
| Date Received:   | 2024-03-01 |
| Date Tested:     | 2024-03-01 |
| Date Completed:  | 2024-03-04 |
| Next Due Date:   | 2025-03-03 |

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.: | 39950E     |
| Date of Issue:   | 2024-03-04 |
| Date Received:   | 2024-03-01 |
| Date Tested:     | 2024-03-01 |
| Date Completed:  | 2024-03-04 |
| Next Due Date:   | 2025-03-03 |
| 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.: | 39952A     |
| Date of Issue:   | 2024-03-11 |
| Date Received:   | 2024-03-08 |
| Date Tested:     | 2024-03-08 |
| Date Completed:  | 2024-03-11 |
| Next Due Date:   | 2025-03-10 |

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.: | 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.: 40837A  
Date of Issue: 2024-08-19  
Date Received: 2024-08-15  
Date Tested: 2024-08-15  
Date Completed: 2024-08-19  
Next Due Date: 2025-08-18

Page: 1 of 1

**ATTN:** Ms. Meiling Tang

**Certificate of Calibration**

**Item for calibration:**

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

**Test conditions:**

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

**Methodology:**

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

**Results:**

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

*PREPARED AND CHECKED BY:*

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

  
\_\_\_\_\_  
**PATRICK TSE**  
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 Department)  
Room 1808, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |            |
|------------------|------------|
| Test Report No.: | 40160E     |
| Date of Issue:   | 2024-04-22 |
| Date Received:   | 2024-04-19 |
| Date Tested:     | 2024-04-19 |
| Date Completed:  | 2024-04-22 |
| Next Due Date:   | 2024-10-21 |

**ATTN:** Ms. Meiling Tang

Page: 1 of 2

### Certificate of Calibration

**Item for calibration:**

|              |                                  |
|--------------|----------------------------------|
| Description  | : Weather Stations, Vantage Pro2 |
| Manufacturer | : Davis Instruments              |
| Model No.    | : 6152CUK                        |
| Serial No.   | : AK130520006                    |

**Test conditions:**

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

**Test Specifications:**

1. Performance check of anemometer
2. Performance check of wind direction sensor

**Methodology:**

In-house method with reference anemometer

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

  
**PATRICK TSE**  
*Laboratory Manager*

## TEST REPORT

|                  |            |
|------------------|------------|
| Test Report No.: | 40160E     |
| Date of Issue:   | 2024-04-22 |
| Date Received:   | 2024-04-19 |
| Date Tested:     | 2024-04-19 |
| Date Completed:  | 2024-04-22 |
| Next Due Date:   | 2024-10-21 |

Page: 2 of 2

**Results:**

1. Performance check of anemometer

| Air Velocity, m/s       |                      | Difference D (m/s) |
|-------------------------|----------------------|--------------------|
| Instrument Reading (V1) | Reference Value (V1) | D = V1 - V2        |
| 2.00                    | 2.00                 | 0.00               |

2. Performance check of wind direction sensor

| Wind Direction (°)      |                      | Difference D (°) |
|-------------------------|----------------------|------------------|
| Instrument Reading (W1) | Reference Value (W2) | D = W1 - W2      |
| 0                       | 0                    | 0                |
| 45                      | 45                   | 0                |
| 90                      | 90                   | 0                |
| 135.2                   | 135                  | 0.2              |
| 180                     | 180                  | 0                |
| 225.3                   | 225                  | 0.3              |
| 270.1                   | 270                  | 0.1              |
| 315                     | 315                  | 0                |
| 360                     | 360                  | 0                |

\*\*\*\*\*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.: | 40594C                      |
| Date of Issue:   | 2024-06-21                  |
| Date Received:   | 2024-06-20                  |
| Date Tested:     | 2024-06-20 to<br>2024-06-21 |
| Date Completed:  | 2024-06-21                  |

**ATTN:** Miss Mei Ling Tang

Page: 1 of 2

**Certificate of Calibration**

**Item for calibration:**

|   |                                 |            |
|---|---------------------------------|------------|
| YSI EXO1 Multiparameter Sondes                | Equipment No.:                  | SW-08-121  |
| Manufacturer:                                 | YSI Incorporated, a Xylem brand |            |
| Description:                                  | Model No.                       | Serial No. |
| - EXO1 Sonde, 100 meter Depth, 4 Sensor ports | 599502-24                       | 17B101447  |
| - EXO Optical DO Sensor, Ti                   | 599100-01                       | 16J101001  |
| - EXO conductivity/Temperature Sensor, Ti     | 599870                          | 17B100798  |
| - EXO Turbidity Sensor, Ti                    | 599101-01                       | 17B102266  |
| - EXO pH Sensor Assembly, Guarded, Ti         | 599701                          | 17B100250  |

**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.: | 40594C                      |
| Date of Issue:   | 2024-06-21                  |
| Date Received:   | 2024-06-20                  |
| Date Tested:     | 2024-06-20 to<br>2024-06-21 |
| Date Completed:  | 2024-06-21                  |
| Page:            | 2 of 2                      |

### Certificate of Calibration

**Results:**

**Conductivity performance checking**

|  | Instrument Readings ( $\mu\text{S}/\text{cm}$ ) | Acceptance Criteria | Comment |
|--|---|---------------------|---------|
| KCl stock solution<br>(12890 $\mu\text{S}/\text{cm}$ ) | 13200   | 12246-13534         | Pass    |

**Temperature performance checking**

| Reference thermometer-<br>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<br>(pH unit) | Acceptance Criteria | Comment |
|-------------------|----------------------------------|---------------------|---------|
| pH QC buffer 4.00 | 4.03                             | $4.00 \pm 0.10$     | Pass    |
| pH QC buffer 6.86 | 6.81                             | $6.86 \pm 0.10$     | Pass    |
| pH QC buffer 9.18 | 9.20                             | $9.18 \pm 0.10$     | Pass    |

**D.O. performance checking**

|                  | Instrument Readings (mg/L) | Acceptance Criteria      | Comment |
|------------------|----------------------------|--------------------------|---------|
| Zero DO solution | 0.09                       | $<0.1\text{mg}/\text{L}$ | Pass    |

| Winkler Titration value<br>(mg/L) | Instrument Readings (mg/L) | Acceptance Criteria   | Comment |
|-----------------------------------|----------------------------|---|---------|
| 7.92                              | 7.99                       | Difference between<br>Titration value and<br>instrument reading<br>$<0.2\text{mg}/\text{L}$ | Pass    |

**Turbidity performance checking**

| Turbidity stock solution | Instrument Readings (NTU) | Acceptance Criteria | Comment |
|--------------------------|---------------------------|---------------------|---------|
| 10 NTU                   | 9.81                      | 9.0-11.0            | Pass    |
| 50 NTU                   | 49.36                     | 45.0-55.0           | Pass    |
| 100 NTU                  | 98.4                      | 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.: | 40670                       |
| Date of Issue:   | 2024-08-16                  |
| Date Received:   | 2024-08-15                  |
| Date Tested:     | 2024-08-15 to<br>2024-08-16 |
| Date Completed:  | 2024-08-16                  |

**ATTN:** Miss Mei Ling Tang

Page: 1 of 2

**Certificate of Calibration**

**Item for calibration:**

|   |                                 |            |
|---|---------------------------------|------------|
| YSI EXO1 Multiparameter Sondes                | Equipment No.:                  | SW-08-106  |
| Manufacturer:                                 | YSI Incorporated, a Xylem brand |            |
| Description:                                  | Model No.                       | Serial No. |
| - EXO1 Sonde, 100 meter Depth, 4 Sensor ports | 599501-02                       | 17B100679  |
| - EXO Optical DO Sensor, Ti                   | 599100-01                       | 17B102222  |
| - EXO conductivity/Temperature Sensor, Ti     | 599870                          | 16H100180  |
| - EXO Turbidity Sensor, Ti                    | 599101-01                       | 20J103611  |
| - EXO pH Sensor Assembly, Guarded, Ti         | 599701                          | 17B103613  |

**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.: | 40670                       |
| Date of Issue:   | 2024-08-16                  |
| Date Received:   | 2024-08-15                  |
| Date Tested:     | 2024-08-15 to<br>2024-08-16 |
| Date Completed:  | 2024-08-16                  |
| Page:            | 2 of 2                      |

|                                   |
|-----------------------------------|
| <b>Certificate of Calibration</b> |
|-----------------------------------|

**Results:**

**Conductivity performance checking**

|  | Instrument Readings ( $\mu\text{S}/\text{cm}$ ) | Acceptance Criteria | Comment |
|--|---|---------------------|---------|
| KCl stock solution<br>(12890 $\mu\text{S}/\text{cm}$ ) | 13200   | 12246-13534         | Pass    |

**Temperature performance checking**

| Reference thermometer-<br>E431 Readings ( $^{\circ}\text{C}$ ) | Instrument Readings ( $^{\circ}\text{C}$ ) | Correction ( $^{\circ}\text{C}$ ) | Comment |
|--|--|-----------------------------------|---------|
| 20.0   | 20.002                                     | -0.001                            | N/A     |

**pH performance checking**

|                   | Instrument Readings<br>(pH unit) | Acceptance Criteria | Comment |
|-------------------|----------------------------------|---------------------|---------|
| pH QC buffer 4.00 | 4.04                             | $4.00 \pm 0.10$     | Pass    |
| pH QC buffer 6.86 | 6.87                             | $6.86 \pm 0.10$     | Pass    |
| pH QC buffer 9.18 | 9.25                             | $9.18 \pm 0.10$     | Pass    |

**D.O. performance checking**

|                  | Instrument Readings (mg/L) | Acceptance Criteria      | Comment |
|------------------|----------------------------|--------------------------|---------|
| Zero DO solution | 0.09                       | $<0.1\text{mg}/\text{L}$ | Pass    |

| Winkler Titration value<br>(mg/L) | Instrument Readings (mg/L) | Acceptance Criteria   | Comment |
|-----------------------------------|----------------------------|---|---------|
| 8.04                              | 8.10                       | Difference between<br>Titration value and<br>instrument reading<br>$<0.2\text{mg}/\text{L}$ | Pass    |

**Turbidity performance checking**

| Turbidity stock solution | Instrument Readings (NTU) | Acceptance Criteria | Comment |
|--------------------------|---------------------------|---------------------|---------|
| 10 NTU                   | 10.26                     | 9.0-11.0            | Pass    |
| 50 NTU                   | 51.02                     | 45.0-55.0           | Pass    |
| 100 NTU                  | 101.9                     | 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\*\*\*\*\*



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**APPENDIX D  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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**Service Contract No. NDO 07/2019**  
**Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po**  
**Impact Air Quality and Noise Monitoring Schedule (September 2024)**

| Sunday | Monday   | Tuesday  | Wednesday  | Thursday   | Friday   | Saturday                 |
|--------|--|--|--|--|--|--------------------------|
| 1-Sep  | 2-Sep  | 3-Sep  | 4-Sep  | 5-Sep  | 6-Sep  | 7-Sep                    |
|        | Avifauna (Pond 12)<br>Water Quality Monitoring   | Herpetofauna Survey                              | 24hr TSP<br>Water Quality Monitoring   | 1hr TSP X 3<br>Noise   | Aquatic Fauna Survey<br><br>Water Quality Monitoring |                          |
| 8-Sep  | 9-Sep  | 10-Sep   | 11-Sep   | 12-Sep   | 13-Sep   | 14-Sep                   |
|        | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>Avifauna (Pond 12)<br>Water Quality Monitoring | 24hr TSP   | 1hr TSP X 3<br>Noise<br>Water Quality Monitoring                                     |  | Water Quality Monitoring                             |                          |
| 15-Sep | 16-Sep   | 17-Sep   | 18-Sep   | 19-Sep   | 20-Sep   | 21-Sep                   |
|        | Avifauna (Pond 12)<br>24hr TSP   | 1hr TSP X 3<br>Noise<br>Water Quality Monitoring |  | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>Water Quality Monitoring | Avifauna (Flightline Survey)<br>24hr TSP             | Water Quality Monitoring |
| 22-Sep | 23-Sep   | 24-Sep   | 25-Sep   | 26-Sep   | 27-Sep   | 28-Sep                   |
|        | 1hr TSP X 3<br>Noise<br>Avifauna (Pond 12)<br>Water Quality Monitoring                                     |  | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>Water Quality Monitoring | 24hr TSP   | 1hr TSP X 3<br><br>Water Quality Monitoring          |                          |
| 29-Sep | 30-Sep   |  |  |  |  |                          |
|        | Water Quality Monitoring   |  |  |  |  |                          |

**Air Quality Monitoring Station**

DMS-1a - Village House along Ha Wan Tsuen East Road  
DMS-2B - Site boundary near Village House along Lok Ma Chau  
DMS-3 - Village house along Old Border Road  
DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

**Noise Monitoring Station**

NMS-1 - Village House in Ha Wan Tsuen  
NMS-2 - Village house along existing Ha Wan Tsuen East Road  
NMS-3 - Village house along Old Border Road  
NMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

**Water Quality Monitoring Station**

CS1 - Control Station at Old Shenzhen River Meander  
IS1 - Impact Station at Old Shenzhen River Meander  
IS2 - Impact Station at Old Shenzhen River Meander  
IS4 - Impact Station for at Ping Hang Stream  
CS5 - Control Station at channel at south of Lung Hau Road  
IS6 - Impact Station next to Lung Hau Road  
BS1 - Impact Station at Old Shenzhen River Meander  
(Terminated starting from 28 June 2021- approved by EPD via email dated 22 June 2021)

**Service Contract No. NDO 07/2019**  
**Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po**  
**Tentative Impact Air Quality and Noise Monitoring Schedule (October 2024)**

| Sunday | Monday   | Tuesday           | Wednesday  | Thursday                                | Friday  | Saturday                 |
|--------|--|-------------------|--|---|---|--------------------------|
|        |  | 1-Oct             | 2-Oct  | 3-Oct                                   | 4-Oct   | 5-Oct                    |
|        |  |                   | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>24hr TSP<br>Water Quality Monitoring           | 1hr TSP X 3 Noise<br>Avifauna (Pond 12) | Water Quality Monitoring  |                          |
| 6-Oct  | 7-Oct  | 8-Oct             | 9-Oct  | 10-Oct                                  | 11-Oct  | 12-Oct                   |
|        | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>Water Quality Monitoring | 24hr TSP          | 1hr TSP X 3 Noise<br>Water Quality Monitoring  | Avifauna (Pond 12)                      |   | Water Quality Monitoring |
| 13-Oct | 14-Oct   | 15-Oct            | 16-Oct   | 17-Oct                                  | 18-Oct  | 19-Oct                   |
|        | 24hr TSP<br>Water Quality Monitoring   | 1hr TSP X 3 Noise | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>Avifauna (Pond 12)<br>Water Quality Monitoring | Herpetofauna Survey                     | 24hr TSP<br>Water Quality Monitoring                                    |                          |
| 20-Oct | 21-Oct   | 22-Oct            | 23-Oct   | 24-Oct                                  | 25-Oct  | 26-Oct                   |
|        | 1hr TSP X 3 Noise<br>Avifauna (Pond 12)<br>Water Quality Monitoring                  |                   | Aquatic Fauna Survey<br>Water Quality Monitoring   | 24hr TSP                                | 1hr TSP X 3<br>Avifauna (Flightline Survey)<br>Water Quality Monitoring |                          |
| 27-Oct | 28-Oct   | 29-Oct            | 30-Oct   | 31-Oct                                  |   |                          |
|        | Water Quality Monitoring   |                   | Aquatic Fauna Survey (Water Quality Monitoring only)<br><br>24hr TSP<br>Water Quality Monitoring           | 1hr TSP X 3 Noise<br>Avifauna (Pond 12) |   |                          |

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

**Air Quality Monitoring Station**

DMS-1a - Village House along Ha Wan Tsuen East Road  
DMS-2B - Site boundary near Village House along Lok Ma Chau  
DMS-3 - Village house along Old Border Road  
DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

**Noise Monitoring Station**

NMS-1 - Village House in Ha Wan Tsuen  
NMS-2 - Village house along existing Ha Wan Tsuen East Road  
NMS-3 - Village house along Old Border Road  
NMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

**Water Quality Monitoring Station**

CS1 - Control Station at Old Shenzhen River Meander  
IS1 - Impact Station at Old Shenzhen River Meander  
IS2 - Impact Station at Old Shenzhen River Meander  
IS4 - Impact Station for at Ping Hang Stream  
CS5 - Control Station at channel at south of Lung Hau Road  
IS6 - Impact Station next to Lung Hau Road  
BS1 - Impact Station at Old Shenzhen River Meander  
(Terminated starting from 28 June 2021- approved by EPD via email dated 22 June 2021)

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**APPENDIX E**  
**1-HOUR TSP MONITORING RESULTS**  
**AND GRAPHICAL PRESENTATION**

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## Appendix E - 1-hour TSP Monitoring Results

| Location DMS-1a - Village House along Ha Wan Tsuen East Road |       |         |  |
|--|-------|---------|--|
| Date   | Time  | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 5-Sep-24   | 9:00  | Cloudy  | 80.3   |
| 5-Sep-24   | 10:00 | Cloudy  | 90.7   |
| 5-Sep-24   | 11:00 | Cloudy  | 97.2   |
| 11-Sep-24  | 8:20  | Sunny   | 74.0   |
| 11-Sep-24  | 9:20  | Sunny   | 77.5   |
| 11-Sep-24  | 10:20 | Sunny   | 72.4   |
| 17-Sep-24  | 9:00  | Sunny   | 123.0  |
| 17-Sep-24  | 10:00 | Sunny   | 123.5  |
| 17-Sep-24  | 11:00 | Sunny   | 121.4  |
| 23-Sep-24  | 9:00  | Cloudy  | 53.7   |
| 23-Sep-24  | 10:00 | Cloudy  | 57.8   |
| 23-Sep-24  | 11:00 | Cloudy  | 64.7   |
| 27-Sep-24  | 8:00  | Sunny   | 89.9   |
| 27-Sep-24  | 9:00  | Sunny   | 102.1  |
| 27-Sep-24  | 10:00 | Sunny   | 104.3  |
|  |       | Minimum | 53.7   |
|  |       | Maximum | 123.5  |
|  |       | Average | 88.8   |

| Location DMS-2B - Site boundary near Village House along Lok Ma Chau Road |       |         |  |
|---|-------|---------|--|
| Date  | Time  | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 5-Sep-24  | 9:00  | Cloudy  | 64.6   |
| 5-Sep-24  | 10:00 | Cloudy  | 63.4   |
| 5-Sep-24  | 11:00 | Cloudy  | 53.5   |
| 11-Sep-24   | 8:00  | Sunny   | 41.9   |
| 11-Sep-24   | 9:00  | Sunny   | 44.7   |
| 11-Sep-24   | 10:00 | Sunny   | 44.9   |
| 17-Sep-24   | 9:00  | Sunny   | 101.6  |
| 17-Sep-24   | 10:00 | Sunny   | 63.0   |
| 17-Sep-24   | 11:00 | Sunny   | 61.6   |
| 23-Sep-24   | 9:00  | Cloudy  | 66.6   |
| 23-Sep-24   | 10:00 | Cloudy  | 58.6   |
| 23-Sep-24   | 11:00 | Cloudy  | 60.8   |
| 27-Sep-24   | 8:05  | Sunny   | 191.1  |
| 27-Sep-24   | 9:05  | Sunny   | 186.1  |
| 27-Sep-24   | 10:05 | Sunny   | 142.2  |
|   |       | Minimum | 41.9   |
|   |       | Maximum | 191.1  |
|   |       | Average | 83.0   |

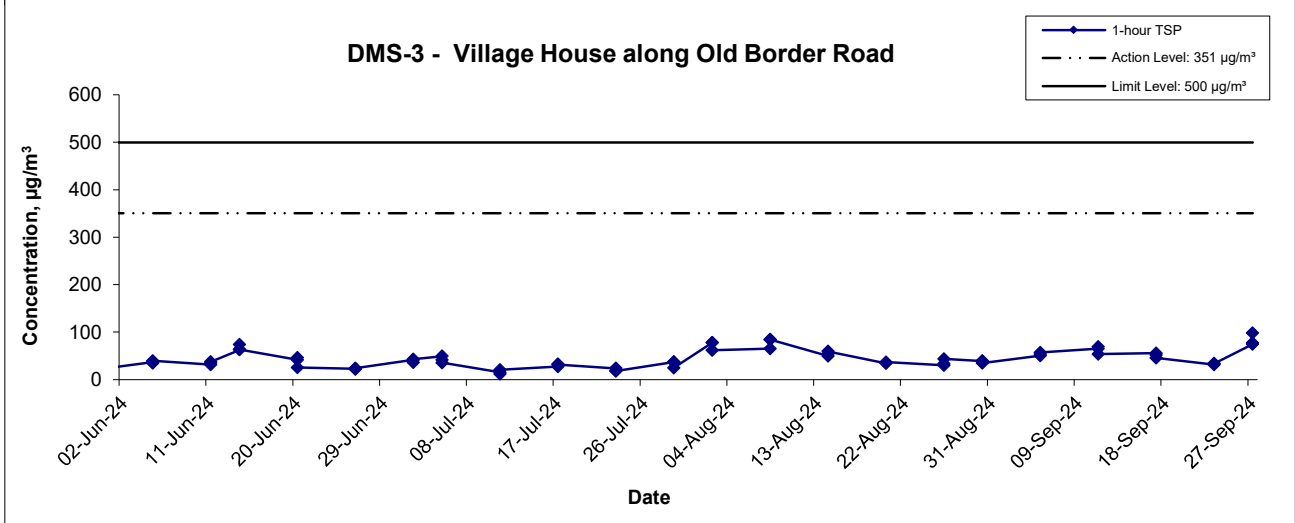
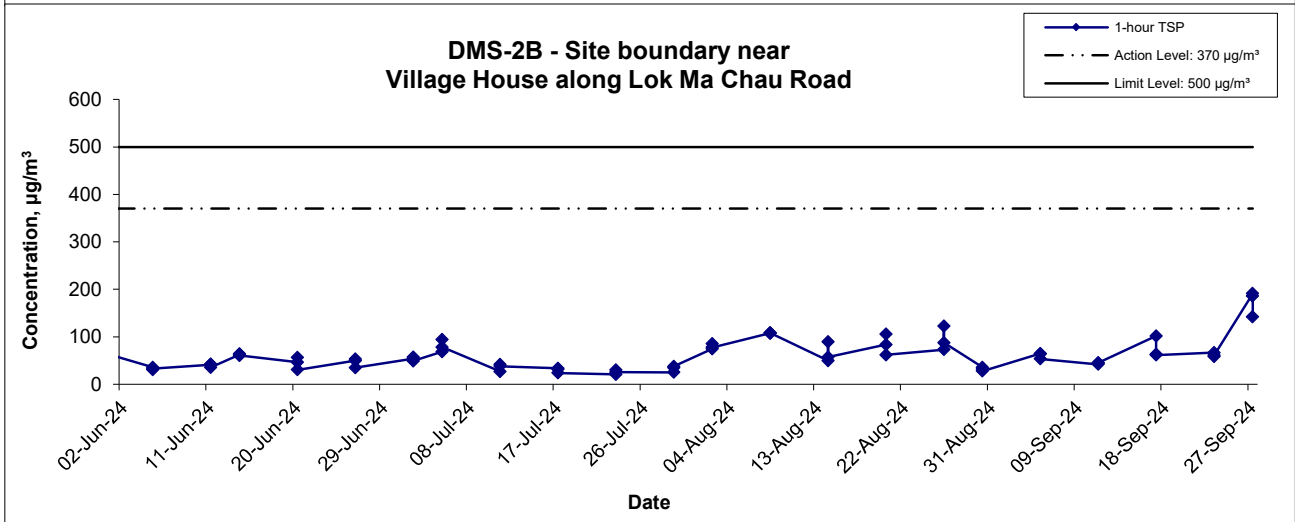
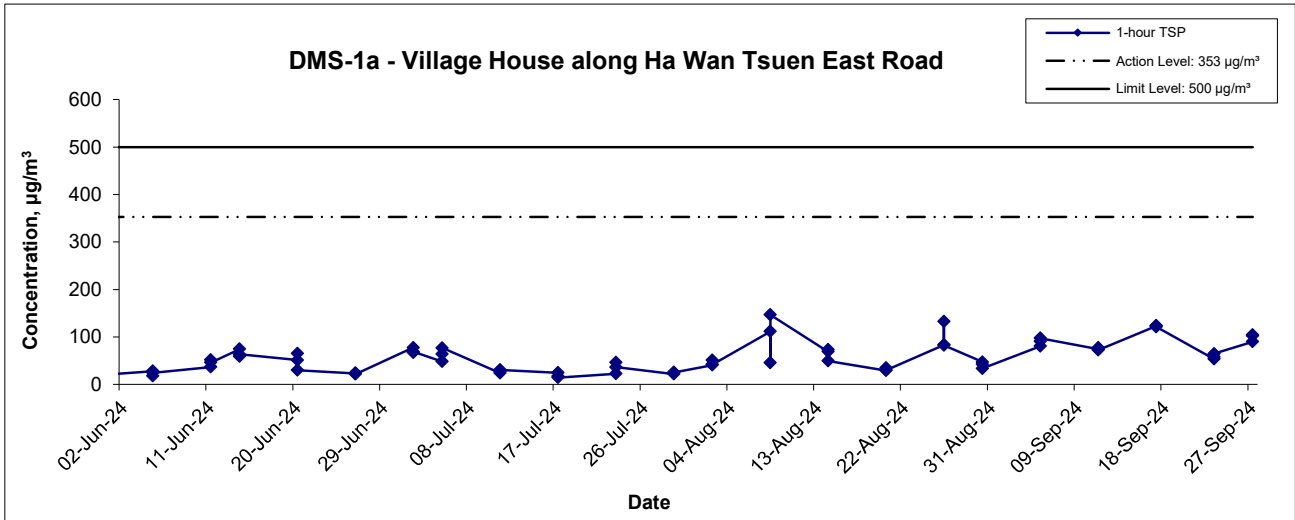
## Appendix E - 1-hour TSP Monitoring Results

| <b>Location DMS-3 - Village House along Old Border Road</b> |       |         |  |
|---|-------|---------|--|
| Date  | Time  | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 5-Sep-24  | 13:00 | Cloudy  | 50.4   |
| 5-Sep-24  | 14:00 | Cloudy  | 53.4   |
| 5-Sep-24  | 15:00 | Cloudy  | 56.9   |
| 11-Sep-24   | 8:30  | Sunny   | 65.3   |
| 11-Sep-24   | 9:30  | Sunny   | 69.1   |
| 11-Sep-24   | 10:30 | Sunny   | 53.8   |
| 17-Sep-24   | 13:00 | Sunny   | 55.8   |
| 17-Sep-24   | 14:00 | Sunny   | 51.6   |
| 17-Sep-24   | 15:00 | Sunny   | 45.4   |
| 23-Sep-24   | 13:00 | Cloudy  | 31.2   |
| 23-Sep-24   | 14:00 | Cloudy  | 34.1   |
| 23-Sep-24   | 15:00 | Cloudy  | 33.7   |
| 27-Sep-24   | 13:45 | Sunny   | 74.7   |
| 27-Sep-24   | 14:45 | Sunny   | 77.2   |
| 27-Sep-24   | 15:45 | Sunny   | 98.1   |
|   |       | Minimum | 31.2   |
|   |       | Maximum | 98.1   |
|   |       | Average | 56.7   |

| <b>Location DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill</b> |       |         |  |
|--|-------|---------|--|
| Date   | Time  | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 5-Sep-24   | 13:00 | Cloudy  | 47.2   |
| 5-Sep-24   | 14:00 | Cloudy  | 49.9   |
| 5-Sep-24   | 15:00 | Cloudy  | 50.4   |
| 11-Sep-24  | 13:00 | Sunny   | 41.8   |
| 11-Sep-24  | 14:00 | Sunny   | 43.0   |
| 11-Sep-24  | 15:00 | Sunny   | 45.6   |
| 17-Sep-24  | 9:00  | Sunny   | 70.8   |
| 17-Sep-24  | 10:00 | Sunny   | 61.5   |
| 17-Sep-24  | 11:00 | Sunny   | 65.9   |
| 23-Sep-24  | 9:00  | Cloudy  | 29.9   |
| 23-Sep-24  | 10:00 | Cloudy  | 24.9   |
| 23-Sep-24  | 11:00 | Cloudy  | 33.5   |
| 27-Sep-24  | 14:00 | Sunny   | 96.5   |
| 27-Sep-24  | 15:00 | Sunny   | 89.5   |
| 27-Sep-24  | 16:00 | Sunny   | 79.7   |
|  |       | Minimum | 24.9   |
|  |       | Maximum | 96.5   |
|  |       | Average | 55.3   |

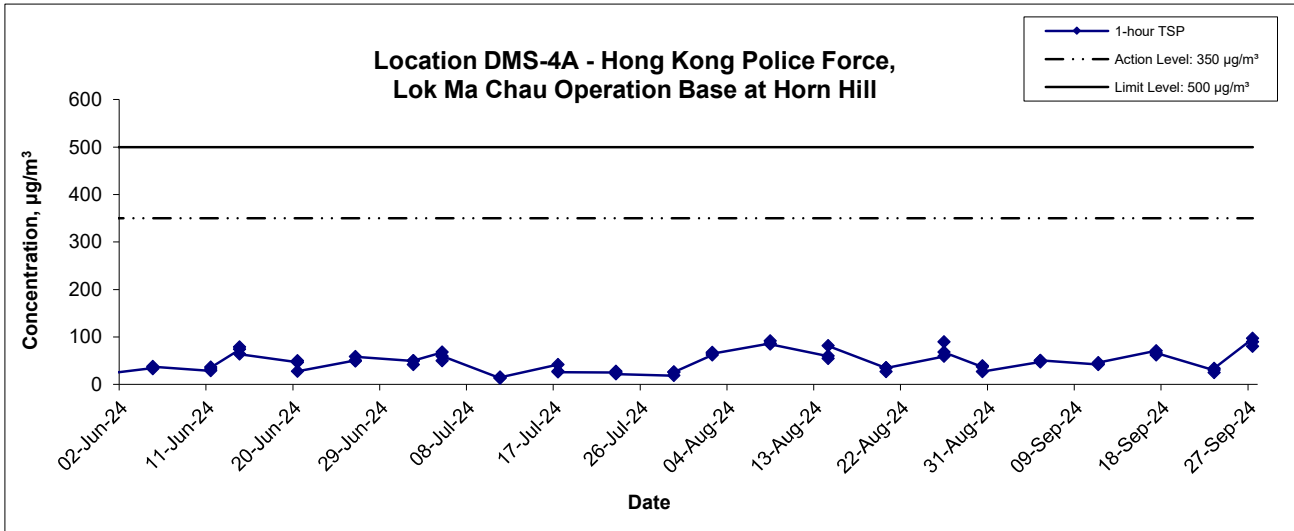



# 1-hour TSP Concentration Levels



|   |   |  |       |       |             |          |                                     |
|---|---|--|-------|-------|-------------|----------|-------------------------------------|
| Title   | Service Contract No. WD/04/2020   |  | Scale | N.T.S | Project No. | WMA21009 | <br>consulting . testing . research |
|   | Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team |  |       | Date  |             | Aug 24   |                                     |
| Graphical Presentation of 1-hour TSP Monitoring Results |   |  |       |       |             |          |                                     |

# 1-hour TSP Concentration Levels



|  |                |                         |   |
|--|----------------|-------------------------|---|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br>Graphical Presentation of 1-hour TSP Monitoring Results | Scale<br>N.T.S | Project<br>No. WMA21009 |  |
|  | Date<br>Aug 24 | Appendix<br>E           |   |

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**APPENDIX F  
24-HOUR TSP MONITORING RESULTS  
AND GRAPHICAL PRESENTATION**

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## Appendix F - 24-hour TSP Monitoring Results

| <b>Location DMS-1a - Village House along Ha Wan Tsuen East Road</b> |      |         |  |
|---|------|---------|--|
| Date  | Time | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 4-Sep-24  | 9:00 | Cloudy  | 52.6   |
| 10-Sep-24   | 8:10 | Sunny   | 80.6   |
| 16-Sep-24   | 9:00 | Sunny   | 44.1   |
| 20-Sep-24   | 9:00 | Cloudy  | 60.4   |
| 26-Sep-24   | 8:20 | Sunny   | 69.4   |
|   |      | Minimum | 44.1   |
|   |      | Maximum | 80.6   |
|   |      | Average | 61.4   |

| <b>Location DMS-2B - Site boundary near Village House along Lok Ma Chau Road</b> |      |         |  |
|--|------|---------|--|
| Date   | Time | Weather | Particulate Concentration ( $\mu\text{g}/\text{m}^3$ ) |
| 4-Sep-24   | 9:00 | Cloudy  | 80.1   |
| 10-Sep-24  | 8:10 | Sunny   | 78.9   |
| 16-Sep-24  | 9:00 | Sunny   | 67.3   |
| 20-Sep-24  | 9:00 | Cloudy  | 78.7   |
| 26-Sep-24  | 8:30 | Sunny   | 96.0   |
|  |      | Minimum | 67.3   |
|  |      | Maximum | 96.0   |
|  |      | Average | 80.2   |

## Appendix F - 24-hour TSP Monitoring Results

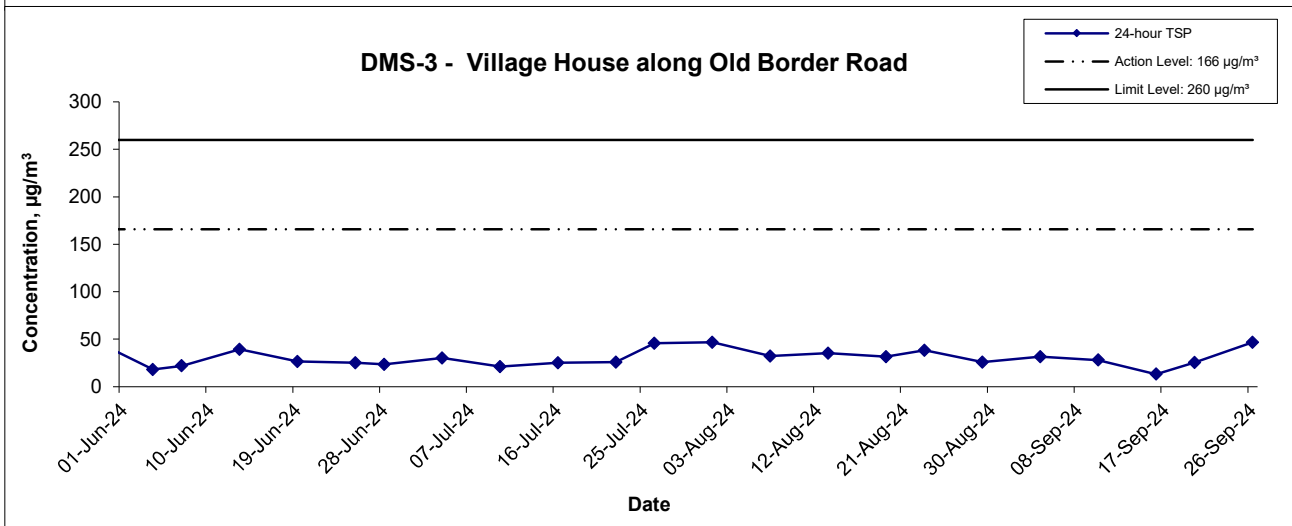
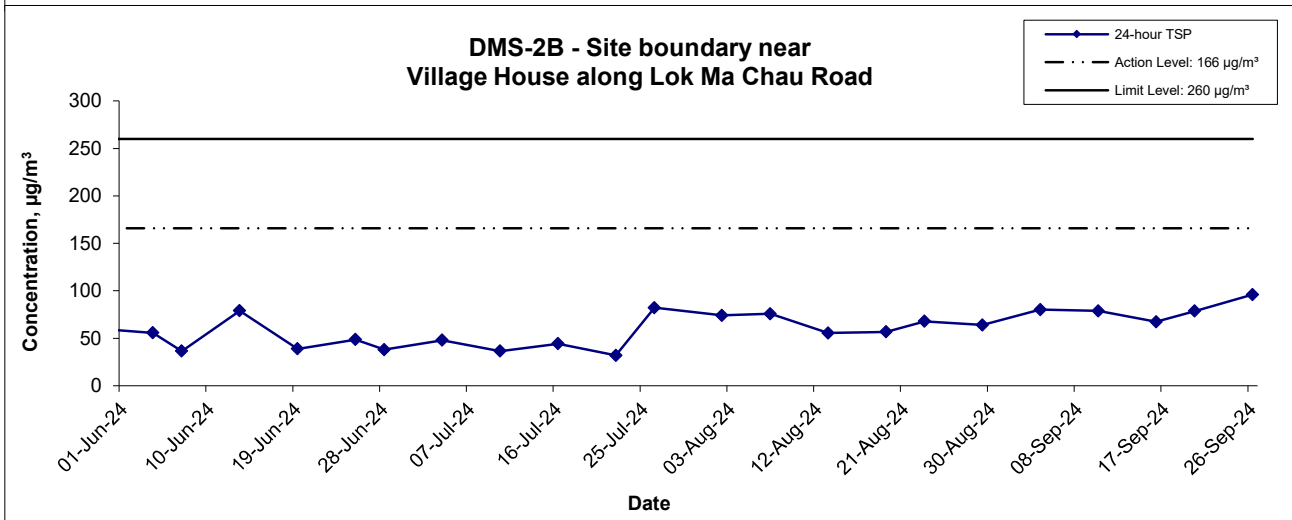
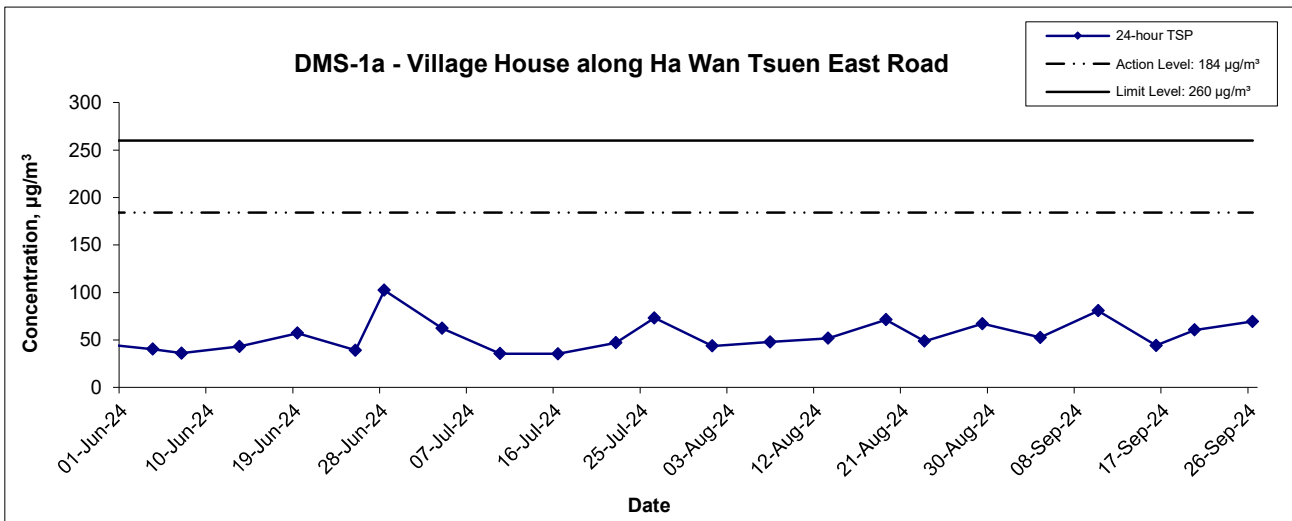
### Location DMS-3 - Village House along Old Border Road

| Start Date | Weather Condition | Air Temp. (K) | Atmospheric Pressure, Pa (mmHg) | Filter Weight (g) |        | Particulate weight (g) | Elapse Time |        | Sampling Time(hrs.) | Flow Rate (m <sup>3</sup> /min.) |       | Av. flow (m <sup>3</sup> /min) | Total vol. (m <sup>3</sup> ) | Conc. (µg/m <sup>3</sup> ) |
|------------|-------------------|---------------|---------------------------------|-------------------|--------|------------------------|-------------|--------|---------------------|----------------------------------|-------|--------------------------------|------------------------------|----------------------------|
|            |                   |               |                                 | Initial           | Final  |                        | Initial     | Final  |                     | Initial                          | Final |                                |                              |                            |
| 4-Sep-24   | Cloudy            | 299.5         | 755.1                           | 4.3543            | 4.4103 | 0.0560                 | 1017.4      | 1041.4 | 24.0                | 1.234                            | 1.228 | 1.231                          | 1772.5                       | 31.6                       |
| 10-Sep-24  | Sunny             | 300.5         | 758.6                           | 4.3159            | 4.3656 | 0.0497                 | 1041.4      | 1065.4 | 24.0                | 1.233                            | 1.230 | 1.232                          | 1773.7                       | 28.0                       |
| 16-Sep-24  | Sunny             | 301.0         | 755.6                           | 4.3114            | 4.3347 | 0.0233                 | 1065.4      | 1089.4 | 24.0                | 1.228                            | 1.228 | 1.228                          | 1768.3                       | 13.2                       |
| 20-Sep-24  | Cloudy            | 300.8         | 755.3                           | 4.3682            | 4.4133 | 0.0451                 | 1089.4      | 1113.4 | 24.0                | 1.226                            | 1.231 | 1.228                          | 1768.6                       | 25.5                       |
| 26-Sep-24  | Sunny             | 300.0         | 760.9                           | 4.3229            | 4.4058 | 0.0829                 | 1113.4      | 1137.4 | 24.0                | 1.237                            | 1.233 | 1.235                          | 1778.2                       | 46.6                       |
|            |                   |               |                                 |                   |        |                        |             |        |                     |                                  |       |                                | Min                          | 13.2                       |
|            |                   |               |                                 |                   |        |                        |             |        |                     |                                  |       |                                | Max                          | 46.6                       |
|            |                   |               |                                 |                   |        |                        |             |        |                     |                                  |       |                                | Average                      | 29.0                       |

### Location DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

| Start Date | Weather Condition | Air Temp. (K) | Atmospheric Pressure, Pa (mmHg) | Filter Weight (g) |        | Particulate weight (g) | Elapse Time |         | Sampling Time(hrs.) | Flow Rate (m <sup>3</sup> /min.) |       | Av. flow (m <sup>3</sup> /min) | Total vol. (m <sup>3</sup> ) | Conc. (µg/m <sup>3</sup> ) |
|------------|-------------------|---------------|---------------------------------|-------------------|--------|------------------------|-------------|---------|---------------------|----------------------------------|-------|--------------------------------|------------------------------|----------------------------|
|            |                   |               |                                 | Initial           | Final  |                        | Initial     | Final   |                     | Initial                          | Final |                                |                              |                            |
| 4-Sep-24   | Cloudy            | 299.5         | 755.1                           | 4.3409            | 4.3763 | 0.0354                 | 35813.4     | 35837.4 | 24.0                | 1.230                            | 1.224 | 1.227                          | 1766.9                       | 20.0                       |
| 10-Sep-24  | Sunny             | 300.5         | 758.6                           | 4.2972            | 4.3528 | 0.0556                 | 35837.4     | 35861.4 | 24.0                | 1.229                            | 1.226 | 1.228                          | 1768.0                       | 31.4                       |
| 16-Sep-24  | Sunny             | 301.0         | 755.6                           | 4.3154            | 4.3561 | 0.0407                 | 35861.4     | 35885.4 | 24.0                | 1.224                            | 1.224 | 1.224                          | 1762.8                       | 23.1                       |
| 20-Sep-24  | Cloudy            | 300.8         | 755.3                           | 4.3776            | 4.4079 | 0.0303                 | 35885.4     | 35909.4 | 24.0                | 1.222                            | 1.227 | 1.224                          | 1763.1                       | 17.2                       |
| 26-Sep-24  | Sunny             | 300.0         | 760.9                           | 4.3242            | 4.3566 | 0.0324                 | 35909.4     | 35933.4 | 24.0                | 1.233                            | 1.229 | 1.231                          | 1772.4                       | 18.3                       |
|            |                   |               |                                 |                   |        |                        |             |         |                     |                                  |       |                                | Min                          | 17.2                       |
|            |                   |               |                                 |                   |        |                        |             |         |                     |                                  |       |                                | Max                          | 31.4                       |
|            |                   |               |                                 |                   |        |                        |             |         |                     |                                  |       |                                | Average                      | 22.0                       |

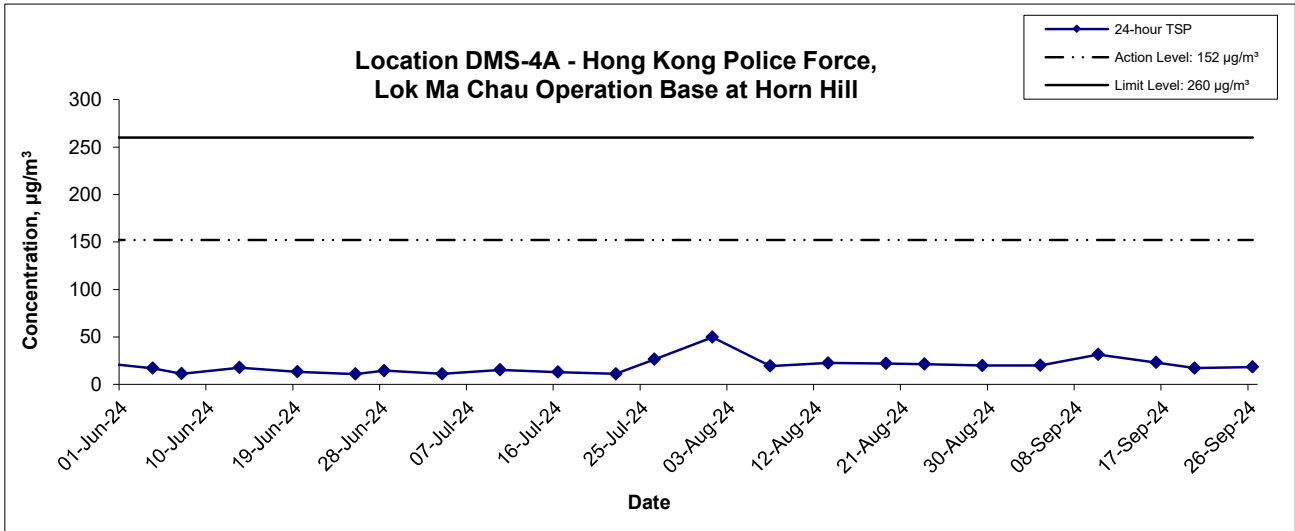
## 24-hour TSP Concentration Levels



|   |       |         |             |          |                                 |
|---|-------|---------|-------------|----------|---------------------------------|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br>Graphical Presentation of 24-hour TSP Monitoring Results | Scale | N.T.S   | Project No. | WMA21009 | consulting . testing . research |
|   | Date  | Sept 24 | Appendix    | F        |                                 |



## 24-hour TSP Concentration Levels



|   |       |         |             |          |                                       |
|---|-------|---------|-------------|----------|---------------------------------------|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br>Graphical Presentation of 24-hour TSP Monitoring Results | Scale | N.T.S   | Project No. | WMA21009 | 匯力<br>consulting . testing . research |
|   | Date  | Sept 24 | Appendix    | F        |                                       |

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**APPENDIX G  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATION**

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**Appendix G - Noise Monitoring Results**

| <b>Location NMS-1 -Village house in Ha Wan Tsuen</b> |         |       |                      |                 |                 |                 |                 |
|--|---------|-------|----------------------|-----------------|-----------------|-----------------|-----------------|
| Date   | Weather | Time  | Unit: dB (A) (5-min) |                 |                 | Average         | Baseline Level  |
|  |         |       | L <sub>eq</sub>      | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> | L <sub>eq</sub> |
| 5-Sep-24   | Sunny   | 14:30 | 58.4                 | 60.1            | 56.6            | 57.8            | 47.3            |
|  |         | 14:35 | 58.0                 | 59.9            | 56.2            |                 |                 |
|  |         | 14:40 | 57.9                 | 59.6            | 56.2            |                 |                 |
|  |         | 14:45 | 56.6                 | 58.0            | 55.1            |                 |                 |
|  |         | 14:50 | 57.4                 | 59.5            | 55.3            |                 |                 |
| 14:55  | 58.4    | 60.3  | 56.5                 |                 |                 |                 |                 |
| 11-Sep-24  | Sunny   | 11:05 | 57.7                 | 61.9            | 53.9            | 55.9            |                 |
|  |         | 11:10 | 56.5                 | 57.5            | 53.2            |                 |                 |
|  |         | 11:15 | 54.9                 | 56.2            | 53.4            |                 |                 |
|  |         | 11:20 | 53.9                 | 55.4            | 52.0            |                 |                 |
|  |         | 11:25 | 55.6                 | 56.8            | 54.0            |                 |                 |
| 11:30  | 56.1    | 57.6  | 53.5                 |                 |                 |                 |                 |
| 17-Sep-24  | Sunny   | 13:10 | 57.7                 | 59.8            | 54.7            | 58.5            |                 |
|  |         | 13:15 | 58.4                 | 60.3            | 55.2            |                 |                 |
|  |         | 13:20 | 59.8                 | 62.4            | 55.9            |                 |                 |
|  |         | 13:25 | 58.2                 | 60.9            | 55.7            |                 |                 |
|  |         | 13:30 | 58.2                 | 59.8            | 55.2            |                 |                 |
| 13:35  | 58.4    | 60.5  | 55.7                 |                 |                 |                 |                 |
| 23-Sep-24  | Cloudy  | 14:00 | 61.6                 | 63.8            | 59.1            | 63.4            |                 |
|  |         | 14:05 | 63.0                 | 65.2            | 59.0            |                 |                 |
|  |         | 14:10 | 62.7                 | 65.0            | 59.2            |                 |                 |
|  |         | 14:15 | 62.4                 | 64.5            | 59.5            |                 |                 |
|  |         | 14:20 | 64.4                 | 65.6            | 59.7            |                 |                 |
| 14:25  | 65.1    | 67.5  | 60.1                 |                 |                 |                 |                 |

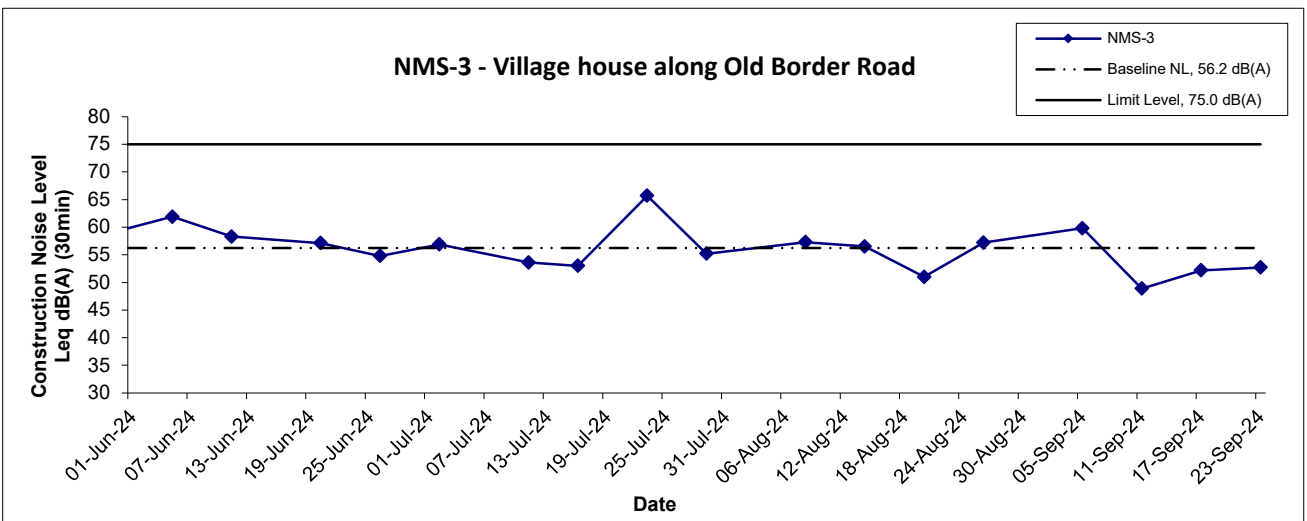
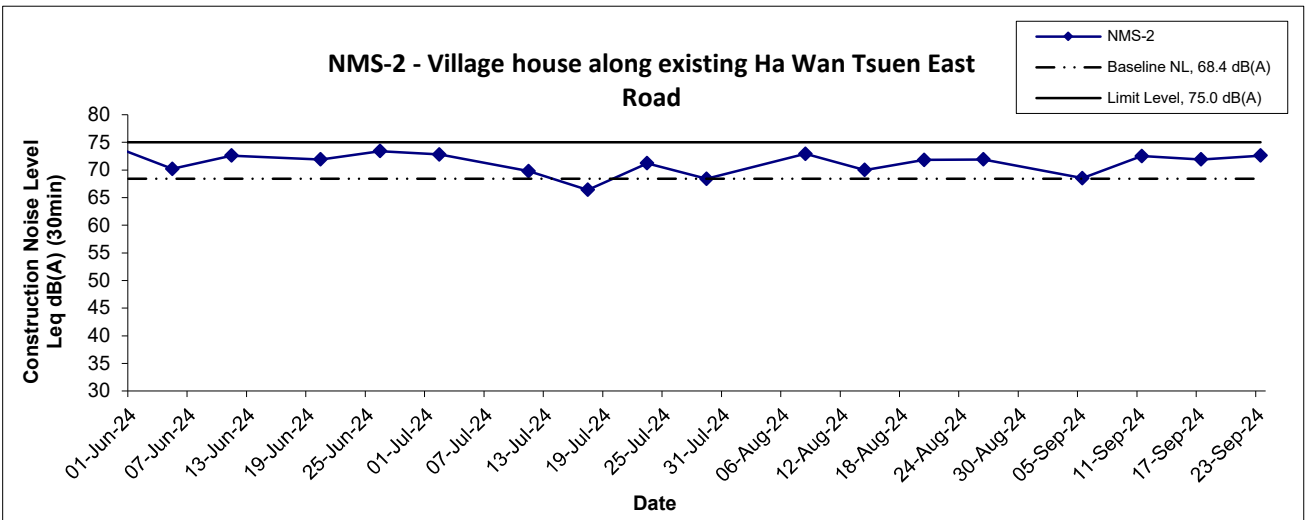
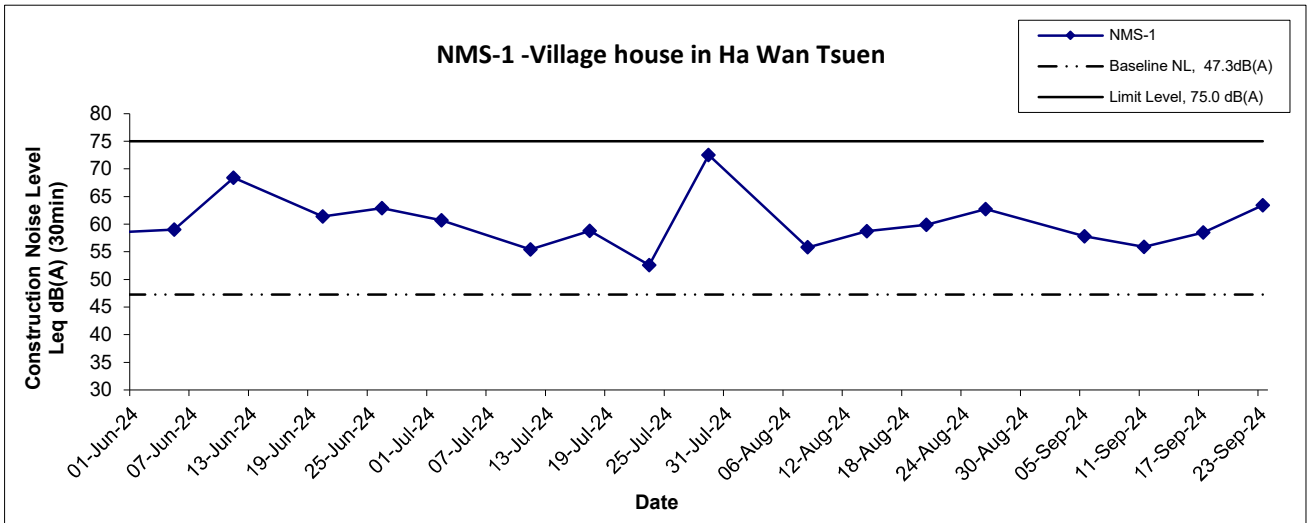
| <b>Location NMS-2 - Village house along existing Ha Wan Tsuen East Road</b> |         |       |                      |                 |                 |                 |                 |
|---|---------|-------|----------------------|-----------------|-----------------|-----------------|-----------------|
| Date  | Weather | Time  | Unit: dB (A) (5-min) |                 |                 | Average         | Baseline Level  |
|   |         |       | L <sub>eq</sub>      | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> | L <sub>eq</sub> |
| 5-Sep-24  | Sunny   | 15:25 | 65.8                 | 68.4            | 62.4            | 68.5            | 68.4            |
|   |         | 15:30 | 67.4                 | 70.6            | 62.3            |                 |                 |
|   |         | 15:35 | 69.8                 | 72.2            | 65.0            |                 |                 |
|   |         | 15:40 | 69.3                 | 71.8            | 64.3            |                 |                 |
|   |         | 15:45 | 68.5                 | 70.9            | 64.1            |                 |                 |
| 15:50   | 69.1    | 71.1  | 64.5                 |                 |                 |                 |                 |
| 11-Sep-24   | Sunny   | 13:10 | 72.6                 | 76.9            | 56.0            | 72.5            |                 |
|   |         | 13:15 | 73.3                 | 76.8            | 57.9            |                 |                 |
|   |         | 13:20 | 72.4                 | 76.2            | 60.9            |                 |                 |
|   |         | 13:25 | 69.7                 | 74.2            | 58.6            |                 |                 |
|   |         | 13:30 | 72.5                 | 76.6            | 58.5            |                 |                 |
| 13:35   | 73.5    | 77.0  | 60.1                 |                 |                 |                 |                 |
| 17-Sep-24   | Sunny   | 14:40 | 73.2                 | 77.0            | 62.6            | 71.9            |                 |
|   |         | 14:45 | 72.8                 | 75.4            | 62.4            |                 |                 |
|   |         | 14:50 | 69.6                 | 72.7            | 62.3            |                 |                 |
|   |         | 14:55 | 72.8                 | 75.8            | 61.9            |                 |                 |
|   |         | 15:00 | 69.3                 | 71.8            | 62.1            |                 |                 |
| 15:05   | 72.3    | 74.7  | 62.7                 |                 |                 |                 |                 |
| 23-Sep-24   | Sunny   | 15:00 | 73.8                 | 78.7            | 58.1            | 72.6            |                 |
|   |         | 15:05 | 73.2                 | 77.3            | 62.4            |                 |                 |
|   |         | 15:10 | 72.1                 | 75.6            | 59.8            |                 |                 |
|   |         | 15:15 | 71.6                 | 74.0            | 59.8            |                 |                 |
|   |         | 15:20 | 72.4                 | 75.8            | 62.0            |                 |                 |
| 15:25   | 72.3    | 76.9  | 59.3                 |                 |                 |                 |                 |

**Appendix G - Noise Monitoring Results**

| <b>Location NMS-3 - Village house along Old Border Road</b> |         |       |                      |                 |                 |                 |                 |
|---|---------|-------|----------------------|-----------------|-----------------|-----------------|-----------------|
| Date  | Weather | Time  | Unit: dB (A) (5-min) |                 |                 | Average         | Baseline Level  |
|   |         |       | L <sub>eq</sub>      | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> | L <sub>eq</sub> |
| 5-Sep-24  | Sunny   | 13:40 | 60.4                 | 62.7            | 57.4            | 59.8            | 56.2            |
|   |         | 13:45 | 60.7                 | 62.4            | 57.7            |                 |                 |
|   |         | 13:50 | 58.7                 | 59.5            | 57.6            |                 |                 |
|   |         | 13:55 | 59.2                 | 60.0            | 58.0            |                 |                 |
|   |         | 14:00 | 58.3                 | 59.0            | 57.7            |                 |                 |
|   |         | 14:05 | 58.3                 | 59.2            | 57.4            |                 |                 |
| 11-Sep-24   | Sunny   | 08:40 | 50.1                 | 50.7            | 48.8            | 48.9            |                 |
|   |         | 08:45 | 50.1                 | 51.5            | 48.9            |                 |                 |
|   |         | 08:50 | 50.6                 | 51.5            | 43.2            |                 |                 |
|   |         | 08:55 | 44.2                 | 45.4            | 41.4            |                 |                 |
|   |         | 09:00 | 45.6                 | 45.8            | 41.5            |                 |                 |
|   |         | 09:05 | 49.0                 | 51.1            | 41.9            |                 |                 |
| 17-Sep-24   | Sunny   | 10:20 | 52.1                 | 55.0            | 47.0            | 52.2            |                 |
|   |         | 10:25 | 52.0                 | 53.6            | 47.6            |                 |                 |
|   |         | 10:30 | 51.6                 | 54.4            | 46.3            |                 |                 |
|   |         | 10:35 | 52.6                 | 55.7            | 47.5            |                 |                 |
|   |         | 10:40 | 52.4                 | 55.4            | 46.6            |                 |                 |
|   |         | 10:45 | 52.3                 | 55.6            | 47.7            |                 |                 |
| 23-Sep-24   | Cloudy  | 13:00 | 54.6                 | 55.0            | 45.2            | 52.7            |                 |
|   |         | 13:05 | 53.9                 | 55.8            | 50.9            |                 |                 |
|   |         | 13:10 | 53.5                 | 56.0            | 48.2            |                 |                 |
|   |         | 13:15 | 51.4                 | 53.2            | 47.6            |                 |                 |
|   |         | 13:20 | 49.3                 | 50.5            | 46.0            |                 |                 |
|   |         | 13:25 | 51.4                 | 54.5            | 46.6            |                 |                 |

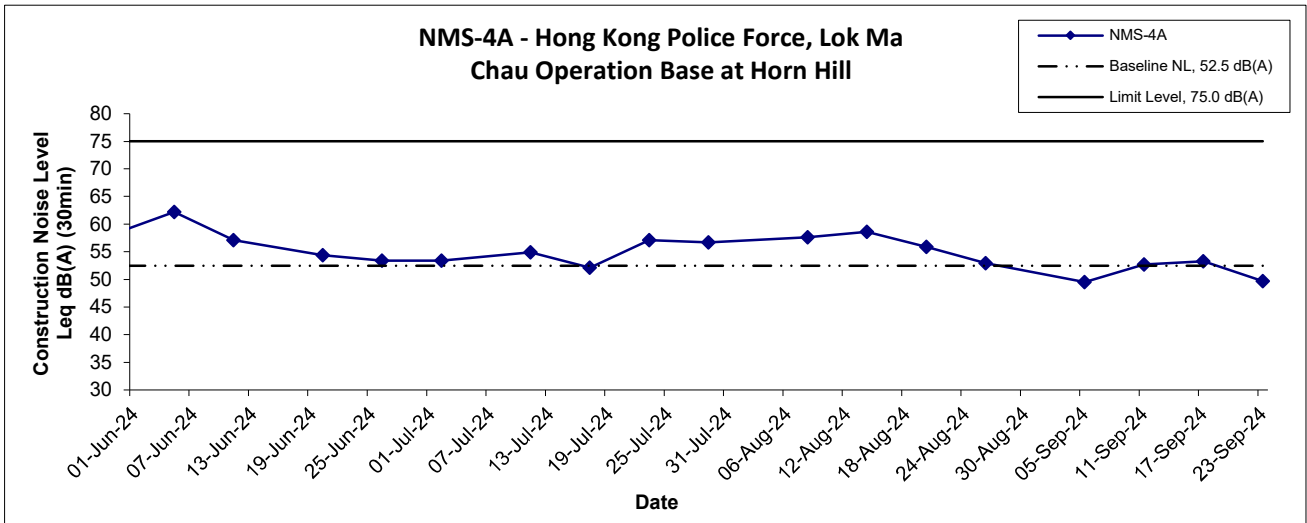
| <b>Location NMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill</b> |         |       |                      |                 |                 |                 |                 |
|--|---------|-------|----------------------|-----------------|-----------------|-----------------|-----------------|
| Date   | Weather | Time  | Unit: dB (A) (5-min) |                 |                 | Average         | Baseline Level  |
|  |         |       | L <sub>eq</sub>      | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> | L <sub>eq</sub> |
| 5-Sep-24   | Sunny   | 13:00 | 48.1                 | 49.1            | 46.7            | 49.5            | 52.5            |
|  |         | 13:05 | 48.7                 | 49.3            | 46.5            |                 |                 |
|  |         | 13:10 | 50.4                 | 52.9            | 46.4            |                 |                 |
|  |         | 13:15 | 49.1                 | 50.5            | 47.3            |                 |                 |
|  |         | 13:20 | 49.2                 | 50.7            | 47.5            |                 |                 |
|  |         | 13:25 | 50.7                 | 52.7            | 48.1            |                 |                 |
| 11-Sep-24  | Sunny   | 14:45 | 53.0                 | 54.9            | 51.9            | 52.7            |                 |
|  |         | 14:50 | 52.6                 | 53.3            | 51.7            |                 |                 |
|  |         | 14:55 | 51.1                 | 52.8            | 50.3            |                 |                 |
|  |         | 15:00 | 53.6                 | 54.6            | 51.6            |                 |                 |
|  |         | 15:05 | 52.6                 | 53.0            | 51.8            |                 |                 |
|  |         | 15:10 | 52.7                 | 53.2            | 51.9            |                 |                 |
| 17-Sep-24  | Sunny   | 09:30 | 52.8                 | 53.4            | 51.9            | 53.3            |                 |
|  |         | 09:35 | 53.3                 | 54.7            | 51.8            |                 |                 |
|  |         | 09:40 | 54.0                 | 55.5            | 52.1            |                 |                 |
|  |         | 09:45 | 53.7                 | 54.0            | 52.3            |                 |                 |
|  |         | 09:50 | 52.8                 | 53.3            | 52.2            |                 |                 |
|  |         | 09:55 | 52.9                 | 53.3            | 52.1            |                 |                 |
| 23-Sep-24  | Cloudy  | 10:00 | 50.7                 | 52.1            | 48.2            | 49.7            |                 |
|  |         | 10:05 | 49.0                 | 49.5            | 48.1            |                 |                 |
|  |         | 10:10 | 49.5                 | 51.2            | 48.1            |                 |                 |
|  |         | 10:15 | 50.3                 | 51.1            | 47.6            |                 |                 |
|  |         | 10:20 | 49.3                 | 51.0            | 47.7            |                 |                 |
|  |         | 10:25 | 49.2                 | 50.1            | 47.6            |                 |                 |

## Noise Levels



|   |                 |                         |                                 |
|---|-----------------|-------------------------|---------------------------------|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br>Graphical Presentation of Construction Noise Monitoring<br>Results | Scale<br>N.T.S  | Project<br>No. WMA21009 | consulting . testing . research |
|   | Date<br>Sept 24 | Appendix<br>G           |                                 |

## Noise Levels



|   |                 |                         |                                     |
|---|-----------------|-------------------------|-------------------------------------|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br>Graphical Presentation of Construction Noise Monitoring<br>Results | Scale<br>N.T.S  | Project<br>No. WMA21009 | <br>consulting . testing . research |
|   | Date<br>Sept 24 | Appendix<br>G           |                                     |



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**APPENDIX H  
WATER QUALITY MONITORING  
RESULTS AND GRAPHICAL  
PRESENTATION**

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### Water Quality Monitoring Results at CS1

| Date      | Weather Condition | Sea Condition** | Sampling Time | 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-Sep-24  | Fine              | Calm            | 17:38         | Middle    | 0.5 | 32.5             | 32.5    | 7.3   | 7.3     | 0.4          | 0.4     | 77.2              | 77.2    | 5.6                     | 5.6     | 7.7             | 7.7     | 8                       | 7.5     |
|           |                   |                 |               |           |     | 32.5             |         | 7.3   |         | 0.4          |         | 77.1              |         | 5.6                     |         | 7.6             |         | 7                       |         |
| 4-Sep-24  | Cloudy            | Calm            | 17:30         | Middle    | 0.5 | 32.4             | 32.4    | 7.6   | 7.6     | 0.4          | 0.4     | 80.9              | 80.8    | 5.9                     | 5.9     | 6.4             | 6.4     | 6                       | 6.0     |
|           |                   |                 |               |           |     | 32.4             |         | 7.6   |         | 0.4          |         | 80.7              |         | 5.8                     |         | 6.4             |         | 6                       |         |
| 6-Sep-24  | Cloudy            | Calm            | 17:45         | Middle    | 0.2 | 29.6             | 29.6    | 8.0   | 8.0     | 2.0          | 2.0     | 79.7              | 79.7    | 6.0                     | 6.0     | 22.1            | 22.2    | 30                      | 30.0    |
|           |                   |                 |               |           |     | 29.6             |         | 7.9   |         | 2.0          |         | 79.6              |         | 6.0                     |         | 22.2            |         | 30                      |         |
| 9-Sep-24  | Sunny             | Calm            | 10:21         | Middle    | 0.6 | 29.7             | 29.7    | 7.0   | 7.0     | 0.3          | 0.3     | 71.7              | 71.5    | 5.4                     | 5.4     | 8.9             | 8.9     | 8                       | 7.5     |
|           |                   |                 |               |           |     | 29.7             |         | 7.0   |         | 0.3          |         | 71.3              |         | 5.4                     |         | 8.8             |         | 7                       |         |
| 11-Sep-24 | Sunny             | Calm            | 10:21         | Middle    | 0.5 | 32.5             | 32.5    | 7.5   | 7.5     | 0.3          | 0.3     | 91.5              | 91.4    | 6.6                     | 6.6     | 5.7             | 5.7     | 6                       | 5.5     |
|           |                   |                 |               |           |     | 32.5             |         | 7.5   |         | 0.3          |         | 91.3              |         | 6.6                     |         | 5.7             |         | 5                       |         |
| 13-Sep-24 | Sunny             | Calm            | 15:29         | Middle    | 0.2 | 32.9             | 32.9    | 8.1   | 8.1     | 0.4          | 0.4     | 114.7             | 114.8   | 8.2                     | 8.3     | 8.0             | 8.0     | 19                      | 18.5    |
|           |                   |                 |               |           |     | 32.9             |         | 8.1   |         | 0.4          |         | 114.9             |         | 8.3                     |         | 8.0             |         | 18                      |         |
| 17-Sep-24 | Sunny             | Calm            | 12:33         | Middle    | 0.5 | 34.4             | 34.4    | 7.0   | 7.0     | 0.5          | 0.5     | 99.6              | 99.6    | 7.0                     | 7.0     | 9.3             | 9.3     | 5                       | 5.0     |
|           |                   |                 |               |           |     | 34.4             |         | 7.0   |         | 0.5          |         | 99.6              |         | 7.0                     |         | 9.2             |         | 5                       |         |
| 19-Sep-24 | Sunny             | Calm            | 13:45         | Middle    | 0.6 | 34.4             | 34.4    | 7.8   | 7.9     | 0.5          | 0.5     | 142.0             | 142.0   | 10.0                    | 10.0    | 6.3             | 6.3     | 10                      | 10.0    |
|           |                   |                 |               |           |     | 34.4             |         | 7.9   |         | 0.5          |         | 142.0             |         | 10.0                    |         | 6.3             |         | 10                      |         |
| 21-Sep-24 | Rainy             | Calm            | 10:02         | Middle    | 0.2 | 30.8             | 30.8    | 8.1   | 8.1     | 0.5          | 0.5     | 104.5             | 104.5   | 7.8                     | 7.8     | 12.9            | 13.0    | 13                      | 13.0    |
|           |                   |                 |               |           |     | 30.8             |         | 8.1   |         | 0.5          |         | 104.5             |         | 7.8                     |         | 13.0            |         | 13                      |         |
| 23-Sep-24 | Cloudy            | Calm            | 12:24         | Middle    | 0.5 | 29.1             | 29.1    | 6.9   | 6.9     | 0.6          | 0.6     | 55.5              | 55.4    | 4.3                     | 4.3     | 7.1             | 7.2     | 9                       | 9.5     |
|           |                   |                 |               |           |     | 29.1             |         | 6.9   |         | 0.6          |         | 55.2              |         | 4.2                     |         | 7.2             |         | 10                      |         |
| 25-Sep-24 | Sunny             | Calm            | 15:02         | Middle    | 0.5 | 31.1             | 31.1    | 7.5   | 7.5     | 0.6          | 0.6     | 75.3              | 75.3    | 5.6                     | 5.6     | 5.8             | 5.8     | 4                       | 4.0     |
|           |                   |                 |               |           |     | 31.1             |         | 7.5   |         | 0.6          |         | 75.2              |         | 5.6                     |         | 5.8             |         | 4                       |         |
| 27-Sep-24 | Sunny             | Calm            | 10:06         | Middle    | 0.6 | 30.7             | 30.7    | 7.5   | 7.5     | 0.6          | 0.6     | 75.6              | 75.5    | 5.6                     | 5.6     | 5.4             | 5.4     | 7                       | 7.0     |
|           |                   |                 |               |           |     | 30.7             |         | 7.5   |         | 0.6          |         | 75.4              |         | 5.6                     |         | 5.4             |         | 7                       |         |
| 30-Sep-24 | Sunny             | Calm            | 10:04         | Middle    | 0.6 | 31.1             | 31.1    | 7.4   | 7.4     | 0.6          | 0.6     | 102.6             | 102.7   | 7.6                     | 7.6     | 4.8             | 4.8     | 6                       | 6.5     |
|           |                   |                 |               |           |     | 31.1             |         | 7.4   |         | 0.6          |         | 102.7             |         | 7.6                     |         | 4.7             |         | 7                       |         |

Remarks: \*DA: Depth-Averaged

\*\*Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

### Water Quality Monitoring Results at CS5

| Date      | Weather Condition | Sea Condition** | Sampling Time | 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-Sep-24  | Fine              | Calm            | 15:57         | Middle    | 0.1 | 32.1             | 32.1    | 7.9   | 7.9     | 0.2          | 0.2     | 90.8              | 90.6    | 6.6                     | 6.6     | 44.8            | 44.9    | 20                      | 20.0    |
|           |                   |                 |               |           |     | 32.1             |         | 7.9   |         | 0.2          |         | 90.4              |         | 6.6                     |         | 44.9            |         | 20                      |         |
| 4-Sep-24  | Cloudy            | Calm            | 16:40         | Middle    | 0.1 | 32.1             | 32.1    | 8.7   | 8.7     | 0.3          | 0.3     | 98.3              | 98.3    | 7.2                     | 7.2     | 28.8            | 28.8    | 13                      | 12.5    |
|           |                   |                 |               |           |     | 32.1             |         | 8.7   |         | 0.3          |         | 98.2              |         | 7.2                     |         | 28.8            |         | 12                      |         |
| 6-Sep-24  | Cloudy            | Calm            | 16:36         | Middle    | 0.3 | 27.7             | 27.7    | 9.0   | 9.0     | 0.1          | 0.1     | 68.5              | 68.4    | 5.4                     | 5.4     | 40.0            | 40.1    | 20                      | 19.5    |
|           |                   |                 |               |           |     | 27.7             |         | 9.0   |         | 0.1          |         | 68.2              |         | 5.4                     |         | 40.2            |         | 19                      |         |
| 9-Sep-24  | Sunny             | Calm            | 09:27         | Middle    | 0.1 | 28.6             | 28.7    | 7.2   | 7.3     | 0.3          | 0.3     | 86.1              | 86.1    | 6.7                     | 6.7     | 44.4            | 44.0    | 44                      | 44.0    |
|           |                   |                 |               |           |     | 28.7             |         | 7.3   |         | 0.3          |         | 86.0              |         | 6.6                     |         | 43.5            |         | 44                      |         |
| 11-Sep-24 | Sunny             | Calm            | 08:52         | Middle    | 0.1 | 28.9             | 28.9    | 7.4   | 7.4     | 0.3          | 0.3     | 73.0              | 73.0    | 5.6                     | 5.6     | 10.4            | 10.5    | 6                       | 6.0     |
|           |                   |                 |               |           |     | 28.9             |         | 7.4   |         | 0.3          |         | 73.0              |         | 5.6                     |         | 10.5            |         | 6                       |         |
| 13-Sep-24 | Sunny             | Calm            | 14:24         | Middle    | 0.1 | 35.3             | 35.3    | 9.5   | 9.5     | 0.1          | 0.1     | 95.6              | 95.8    | 6.6                     | 6.6     | 16.3            | 16.3    | 29                      | 28.5    |
|           |                   |                 |               |           |     | 35.3             |         | 9.5   |         | 0.1          |         | 95.9              |         | 6.6                     |         | 16.2            |         | 28                      |         |
| 17-Sep-24 | Sunny             | Calm            | 13:13         | Middle    | 0.1 | 33.5             | 33.5    | 8.5   | 8.5     | 0.2          | 0.2     | 190.0             | 190.0   | 13.5                    | 13.5    | 14.4            | 14.5    | 10                      | 9.5     |
|           |                   |                 |               |           |     | 33.5             |         | 8.5   |         | 0.2          |         | 190.0             |         | 13.5                    |         | 14.5            |         | 9                       |         |
| 19-Sep-24 | Sunny             | Calm            | 14:46         | Middle    | 0.3 | 34.3             | 34.3    | 8.1   | 8.1     | 0.3          | 0.3     | 180.9             | 180.7   | 12.7                    | 12.7    | 12.1            | 12.3    | 6                       | 5.5     |
|           |                   |                 |               |           |     | 34.3             |         | 8.1   |         | 0.3          |         | 180.5             |         | 12.7                    |         | 12.4            |         | 5                       |         |
| 21-Sep-24 | Rainy             | Calm            | 09:17         | Middle    | 0.1 | 30.4             | 30.4    | 7.8   | 7.8     | 0.6          | 0.6     | 58.2              | 58.3    | 4.4                     | 4.4     | 43.6            | 43.4    | 13                      | 12.5    |
|           |                   |                 |               |           |     | 30.4             |         | 7.8   |         | 0.6          |         | 58.4              |         | 4.4                     |         | 43.2            |         | 12                      |         |
| 23-Sep-24 | Cloudy            | Calm            | 11:38         | Middle    | 0.1 | 28.2             | 28.2    | 8.2   | 8.2     | 0.2          | 0.2     | 139.2             | 139.2   | 10.8                    | 10.8    | 14.8            | 14.8    | 8                       | 8.0     |
|           |                   |                 |               |           |     | 28.2             |         | 8.2   |         | 0.2          |         | 139.2             |         | 10.8                    |         | 14.8            |         | 8                       |         |
| 25-Sep-24 | Sunny             | Calm            | 13:39         | Middle    | 0.1 | 32.8             | 32.8    | 9.1   | 9.1     | 0.3          | 0.3     | 147.7             | 147.7   | 10.6                    | 10.6    | 17.0            | 17.1    | 10                      | 10.5    |
|           |                   |                 |               |           |     | 32.8             |         | 9.1   |         | 0.3          |         | 147.7             |         | 10.6                    |         | 17.1            |         | 11                      |         |
| 27-Sep-24 | Sunny             | Calm            | 10:43         | Middle    | 0.1 | 32.1             | 32.1    | 7.2   | 7.2     | 0.2          | 0.2     | 123.7             | 123.8   | 9.0                     | 9.0     | 18.2            | 18.3    | 4                       | 4.0     |
|           |                   |                 |               |           |     | 32.1             |         | 7.2   |         | 0.2          |         | 123.8             |         | 9.0                     |         | 18.4            |         | 4                       |         |
| 30-Sep-24 | Sunny             | Calm            | 11:13         | Middle    | 0.2 | 28.8             | 28.8    | 7.7   | 7.7     | 0.2          | 0.2     | 59.1              | 59.1    | 4.6                     | 4.6     | 10.1            | 10.1    | 9                       | 9.0     |
|           |                   |                 |               |           |     | 28.8             |         | 7.7   |         | 0.2          |         | 59.1              |         | 4.6                     |         | 10.0            |         | 9                       |         |

Remarks: \*DA: Depth-Averaged

\*\*Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

### Water Quality Monitoring Results at IS1

| Date      | Weather Condition | Sea Condition** | Sampling Time | 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-Sep-24  | Fine              | Calm            | 17:19         | Middle    | 0.5 | 31.0             | 31.0    | 7.1   | 7.1     | 0.4          | 0.4     | 83.5              | 83.4    | 6.2                     | 6.2     | 17.2            | 17.1    | 16                      | 16.5    |
|           |                   |                 |               |           |     | 31.0             |         | 7.1   |         | 0.4          |         | 83.3              |         | 6.2                     |         | 17.0            |         | 17                      |         |
| 4-Sep-24  | Cloudy            | Calm            | 17:04         | Middle    | 0.4 | 30.9             | 30.9    | 7.4   | 7.4     | 0.4          | 0.4     | 82.6              | 82.6    | 6.1                     | 6.1     | 14.8            | 14.8    | 21                      | 21.0    |
|           |                   |                 |               |           |     | 30.9             |         | 7.4   |         | 0.4          |         | 82.5              |         | 6.1                     |         | 14.8            |         | 21                      |         |
| 6-Sep-24  | Cloudy            | Calm            | 17:21         | Middle    | 0.2 | 29.9             | 30.0    | 8.2   | 8.2     | 0.5          | 0.5     | 95.8              | 95.7    | 7.2                     | 7.2     | 16.2            | 16.2    | 21                      | 21.0    |
|           |                   |                 |               |           |     | 30.0             |         | 8.2   |         | 0.5          |         | 95.6              |         | 7.2                     |         | 16.2            |         | 21                      |         |
| 9-Sep-24  | Sunny             | Calm            | 09:58         | Middle    | 0.5 | 27.3             | 27.3    | 6.8   | 6.8     | 0.4          | 0.4     | 86.1              | 86.1    | 6.8                     | 6.8     | 7.3             | 7.4     | 10                      | 10.0    |
|           |                   |                 |               |           |     | 27.3             |         | 6.8   |         | 0.4          |         | 86.1              |         | 6.8                     |         | 7.5             |         | 10                      |         |
| 11-Sep-24 | Sunny             | Calm            | 09:43         | Middle    | 0.4 | 27.7             | 27.7    | 7.5   | 7.5     | 0.5          | 0.5     | 89.1              | 89.0    | 7.0                     | 7.0     | 12.0            | 12.5    | 6                       | 6.0     |
|           |                   |                 |               |           |     | 27.7             |         | 7.4   |         | 0.5          |         | 88.9              |         | 7.0                     |         | 13.0            |         | 6                       |         |
| 13-Sep-24 | Sunny             | Calm            | 15:48         | Middle    | 0.2 | 33.3             | 33.3    | 7.9   | 7.9     | 0.8          | 0.8     | 100.1             | 100.1   | 7.1                     | 7.1     | 11.1            | 11.1    | 5                       | 5.0     |
|           |                   |                 |               |           |     | 33.3             |         | 7.9   |         | 0.8          |         | 100.1             |         | 7.1                     |         | 11.0            |         | 5                       |         |
| 17-Sep-24 | Sunny             | Calm            | 11:54         | Middle    | 0.5 | 31.3             | 31.3    | 7.1   | 7.1     | 0.2          | 0.2     | 96.1              | 96.1    | 7.1                     | 7.1     | 9.3             | 9.3     | 4                       | 4.0     |
|           |                   |                 |               |           |     | 31.3             |         | 7.1   |         | 0.2          |         | 96.0              |         | 7.1                     |         | 9.2             |         | 4                       |         |
| 19-Sep-24 | Sunny             | Calm            | 14:02         | Middle    | 0.6 | 32.5             | 32.5    | 8.3   | 8.3     | 0.5          | 0.5     | 136.3             | 136.4   | 9.9                     | 9.9     | 15.8            | 15.8    | 8                       | 8.5     |
|           |                   |                 |               |           |     | 32.5             |         | 8.3   |         | 0.5          |         | 136.4             |         | 9.9                     |         | 15.7            |         | 9                       |         |
| 21-Sep-24 | Rainy             | Calm            | 09:42         | Middle    | 0.2 | 31.5             | 31.5    | 7.9   | 7.9     | 0.4          | 0.4     | 93.3              | 93.2    | 6.9                     | 6.9     | 9.5             | 9.5     | 3                       | 3.0     |
|           |                   |                 |               |           |     | 31.5             |         | 7.9   |         | 0.4          |         | 93.1              |         | 6.9                     |         | 9.5             |         | 3                       |         |
| 23-Sep-24 | Cloudy            | Calm            | 12:06         | Middle    | 0.5 | 26.2             | 26.2    | 7.2   | 7.2     | 0.2          | 0.2     | 77.7              | 77.6    | 6.3                     | 6.3     | 20.7            | 20.6    | 17                      | 17.0    |
|           |                   |                 |               |           |     | 26.2             |         | 7.2   |         | 0.2          |         | 77.5              |         | 6.3                     |         | 20.5            |         | 17                      |         |
| 25-Sep-24 | Sunny             | Calm            | 14:37         | Middle    | 0.5 | 31.6             | 31.6    | 8.0   | 8.0     | 0.5          | 0.5     | 96.9              | 96.9    | 7.1                     | 7.1     | 18.3            | 18.5    | 4                       | 4.0     |
|           |                   |                 |               |           |     | 31.6             |         | 8.0   |         | 0.5          |         | 96.9              |         | 7.1                     |         | 18.7            |         | 4                       |         |
| 27-Sep-24 | Sunny             | Calm            | 10:24         | Middle    | 0.5 | 28.3             | 28.3    | 7.8   | 7.8     | 0.4          | 0.4     | 74.3              | 74.0    | 5.8                     | 5.8     | 6.0             | 6.0     | 11                      | 10.5    |
|           |                   |                 |               |           |     | 28.3             |         | 7.8   |         | 0.4          |         | 73.7              |         | 5.7                     |         | 6.0             |         | 10                      |         |
| 30-Sep-24 | Sunny             | Calm            | 10:19         | Middle    | 0.6 | 30.7             | 30.7    | 7.4   | 7.4     | 0.5          | 0.5     | 77.6              | 77.5    | 5.8                     | 5.8     | 15.5            | 15.7    | 7                       | 7.0     |
|           |                   |                 |               |           |     | 30.7             |         | 7.4   |         | 0.5          |         | 77.3              |         | 5.8                     |         | 15.8            |         | 7                       |         |

Remarks: \*DA: Depth-Averaged

\*\*Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

### Water Quality Monitoring Results at IS2

| Date      | Weather Condition | Sea Condition** | Sampling Time | 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-Sep-24  | Fine              | Calm            | 15:47         | Middle    | 0.1 | 32.2             | 32.2    | 7.5   | 7.5     | 0.6          | 0.6     | 90.9              | 90.9    | 6.6                     | 6.6     | 19.7            | 19.8    | 23                      | 23.0    |
|           |                   |                 |               |           |     | 32.2             |         | 7.5   |         | 0.6          |         | 90.9              |         | 6.6                     |         | 19.8            |         | 23                      |         |
| 4-Sep-24  | Cloudy            | Calm            | 16:30         | Middle    | 0.1 | 33.3             | 33.3    | 7.4   | 7.4     | 0.6          | 0.6     | 112.4             | 112.5   | 8.0                     | 8.0     | 23.8            | 23.5    | 17                      | 17.5    |
|           |                   |                 |               |           |     | 33.2             |         | 7.4   |         | 0.6          |         | 112.6             |         | 8.0                     |         | 23.1            |         | 18                      |         |
| 6-Sep-24  | Cloudy            | Calm            | 16:49         | Middle    | 0   | 27.6             | 27.6    | 8.3   | 8.3     | 0.1          | 0.1     | 65.7              | 65.6    | 5.2                     | 5.2     | 29.3            | 29.4    | 36                      | 35.5    |
|           |                   |                 |               |           |     | 27.6             |         | 8.3   |         | 0.1          |         | 65.5              |         | 5.2                     |         | 29.5            |         | 35                      |         |
| 9-Sep-24  | Sunny             | Calm            | 09:14         | Middle    | 0.1 | 28.3             | 28.3    | 6.9   | 6.9     | 0.3          | 0.3     | 56.2              | 56.1    | 4.4                     | 4.4     | 30.2            | 30.2    | 31                      | 30.5    |
|           |                   |                 |               |           |     | 28.3             |         | 6.9   |         | 0.3          |         | 56.0              |         | 4.4                     |         | 30.2            |         | 30                      |         |
| 11-Sep-24 | Sunny             | Calm            | 08:39         | Middle    | 0.1 | 29.8             | 29.8    | 7.3   | 7.3     | 0.3          | 0.3     | 56.3              | 57.1    | 4.3                     | 4.4     | 17.2            | 17.1    | 16                      | 15.5    |
|           |                   |                 |               |           |     | 29.8             |         | 7.3   |         | 0.3          |         | 57.8              |         | 4.4                     |         | 17.0            |         | 15                      |         |
| 13-Sep-24 | Sunny             | Calm            | 14:42         | Middle    | 0.1 | 33.9             | 33.9    | 9.1   | 9.1     | 0.5          | 0.5     | 106.5             | 106.6   | 7.5                     | 7.5     | 22.0            | 22.0    | 14                      | 14.0    |
|           |                   |                 |               |           |     | 33.9             |         | 9.1   |         | 0.5          |         | 106.6             |         | 7.5                     |         | 21.9            |         | 14                      |         |
| 17-Sep-24 | Sunny             | Calm            | 13:58         | Middle    | 0.1 | 33.5             | 33.5    | 8.6   | 8.6     | 0.9          | 0.9     | 98.7              | 98.7    | 7.0                     | 7.0     | 28.1            | 28.1    | 25                      | 25.0    |
|           |                   |                 |               |           |     | 33.5             |         | 8.6   |         | 0.9          |         | 98.7              |         | 7.0                     |         | 28.1            |         | 25                      |         |
| 19-Sep-24 | Sunny             | Calm            | 15:25         | Middle    | 0.1 | 31.6             | 31.6    | 8.4   | 8.4     | 1.8          | 1.8     | 88.5              | 88.4    | 6.4                     | 6.4     | 32.2            | 32.3    | 21                      | 20.5    |
|           |                   |                 |               |           |     | 31.6             |         | 8.4   |         | 1.8          |         | 88.2              |         | 6.4                     |         | 32.3            |         | 20                      |         |
| 21-Sep-24 | Rainy             | Calm            | 09:02         | Middle    | 0.1 | 29.1             | 29.1    | 8.4   | 8.4     | 0.2          | 0.2     | 72.8              | 72.7    | 5.6                     | 5.6     | 28.6            | 28.6    | 31                      | 30.5    |
|           |                   |                 |               |           |     | 29.1             |         | 8.4   |         | 0.2          |         | 72.6              |         | 5.6                     |         | 28.5            |         | 30                      |         |
| 23-Sep-24 | Cloudy            | Calm            | 11:52         | Middle    | 0.1 | 28.1             | 28.2    | 7.3   | 7.3     | 0.9          | 0.9     | 58.3              | 58.0    | 4.5                     | 4.5     | 24.1            | 24.7    | 27                      | 27.0    |
|           |                   |                 |               |           |     | 28.2             |         | 7.3   |         | 0.9          |         | 57.7              |         | 4.5                     |         | 25.3            |         | 27                      |         |
| 25-Sep-24 | Sunny             | Calm            | 13:28         | Middle    | 0.1 | 29.5             | 29.5    | 8.5   | 8.5     | 0.6          | 0.6     | 79.2              | 79.1    | 6.0                     | 6.0     | 22.9            | 23.0    | 19                      | 19.0    |
|           |                   |                 |               |           |     | 29.5             |         | 8.5   |         | 0.6          |         | 79.0              |         | 6.0                     |         | 23.0            |         | 19                      |         |
| 27-Sep-24 | Sunny             | Calm            | 10:51         | Middle    | 0.1 | 30.9             | 30.9    | 7.6   | 7.6     | 0.4          | 0.4     | 57.9              | 58.0    | 4.3                     | 4.3     | 20.3            | 20.2    | 22                      | 22.0    |
|           |                   |                 |               |           |     | 30.9             |         | 7.6   |         | 0.4          |         | 58.1              |         | 4.3                     |         | 20.1            |         | 22                      |         |
| 30-Sep-24 | Sunny             | Calm            | 13:33         | Middle    | 0.1 | 31.8             | 31.8    | 7.9   | 7.9     | 0.5          | 0.5     | 61.2              | 61.3    | 4.5                     | 4.5     | 13.6            | 13.6    | 22                      | 21.5    |
|           |                   |                 |               |           |     | 31.8             |         | 7.9   |         | 0.5          |         | 61.3              |         | 4.5                     |         | 13.6            |         | 21                      |         |

Remarks: \*DA: Depth-Averaged

\*\*Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

### Water Quality Monitoring Results at IS4

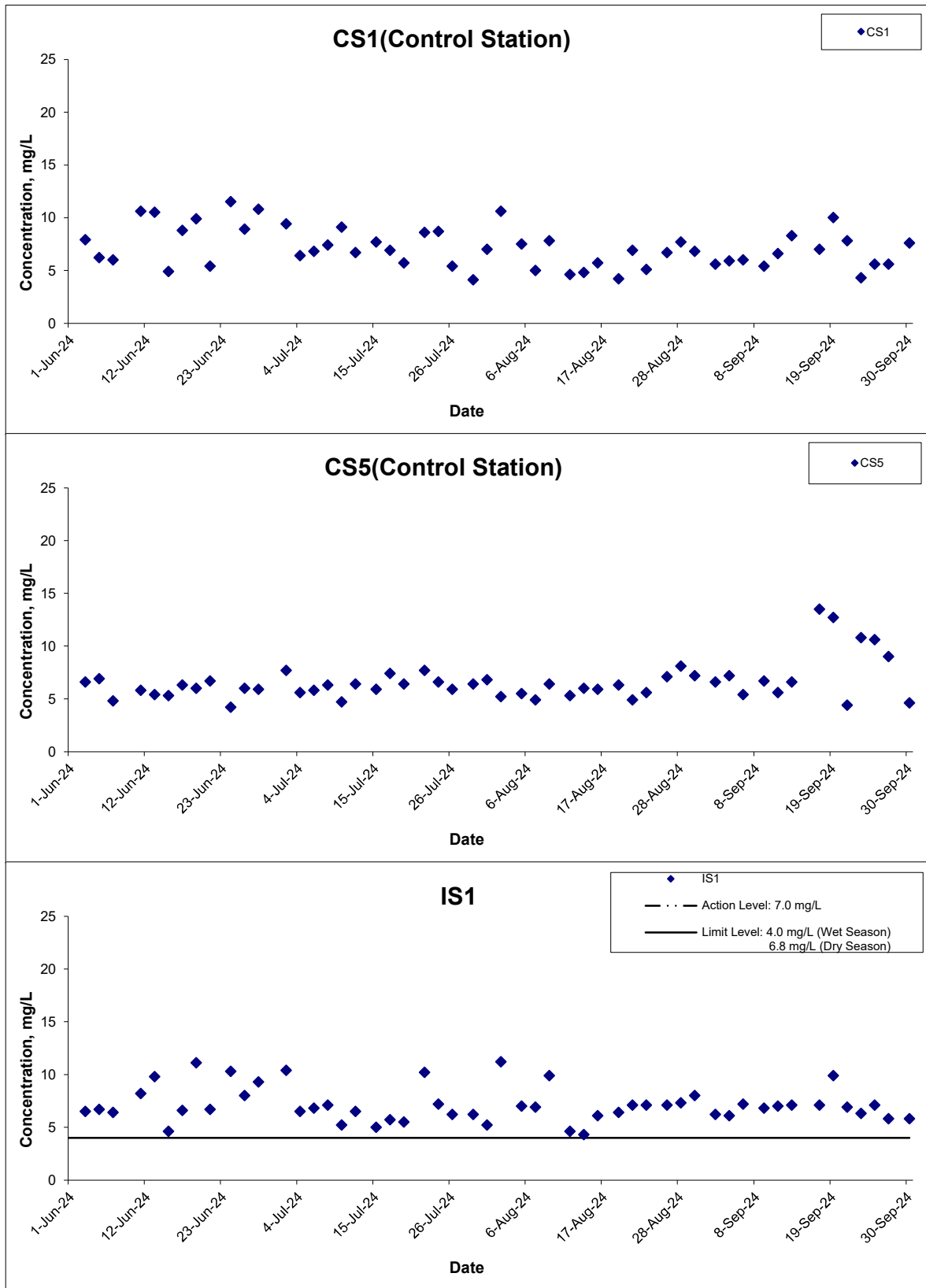
| Date      | Weather Condition | Sea Condition** | Sampling Time | Depth (m) |     | Temperature (°C) |         | pH    |         | Salinity ppt |         | DO Saturation (%) |         | Dissolved Oxygen (mg/L) |         | Turbidity (NTU) |         | Suspended Solids (mg/L) |         |
|-----------|-------------------|-----------------|---------------|-----------|-----|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|-----------------|---------|-------------------------|---------|
|           |                   |                 |               |           |     | Value            | Average | Value | Average | Value        | Average | Value             | Average | Value                   | Average | Value           | Average | Value                   | Average |
| 2-Sep-24  | Fine              | Calm            | 16:44         | Middle    | 0.2 | 28.1             | 28.1    | 7.5   | 7.5     | 0.04         | 0.04    | 56.0              | 55.7    | 4.4                     | 4.4     | 7.4             | 7.4     | 5                       | 4.5     |
|           |                   |                 |               |           |     | 28.1             |         | 7.5   |         | 0.04         |         | 4.3               |         | 7.4                     |         |                 |         |                         |         |
| 4-Sep-24  | Cloudy            | Calm            | 16:53         | Middle    | 0.2 | 28.0             | 28.0    | 7.9   | 7.9     | 0.1          | 0.1     | 53.8              | 53.9    | 4.2                     | 4.2     | 5.8             | 5.7     | 6                       | 6.0     |
|           |                   |                 |               |           |     | 28.0             |         | 7.8   |         | 0.1          |         | 4.2               |         | 5.6                     |         |                 |         |                         |         |
| 6-Sep-24  | Cloudy            | Calm            | 17:05         | Middle    | 0.2 | 27.0             | 27.0    | 7.8   | 7.8     | 0.1          | 0.1     | 60.2              | 60.0    | 4.8                     | 4.8     | 7.7             | 7.7     | 7                       | 7.0     |
|           |                   |                 |               |           |     | 27.0             |         | 7.7   |         | 0.1          |         | 4.8               |         | 7.7                     |         |                 |         |                         |         |
| 9-Sep-24  | Sunny             | Calm            | 09:40         | Middle    | 0.2 | 26.4             | 26.4    | 7.7   | 7.7     | 0.01         | 0.01    | 60.6              | 60.4    | 4.9                     | 4.9     | 2.1             | 2.1     | 3                       | 2.5     |
|           |                   |                 |               |           |     | 26.4             |         | 7.7   |         | 0.01         |         | 4.8               |         | 2.1                     |         |                 |         |                         |         |
| 11-Sep-24 | Sunny             | Calm            | 09:15         | Middle    | 0.2 | 26.8             | 26.8    | 7.8   | 7.8     | 0.03         | 0.03    | 52.0              | 52.2    | 4.2                     | 4.2     | 4.4             | 4.5     | 9                       | 8.5     |
|           |                   |                 |               |           |     | 26.8             |         | 7.7   |         | 0.03         |         | 4.2               |         | 4.5                     |         |                 |         |                         |         |
| 13-Sep-24 | Sunny             | Calm            | 15:15         | Middle    | 0.2 | 28.7             | 28.7    | 7.8   | 7.8     | 0.1          | 0.1     | 55.2              | 54.9    | 4.3                     | 4.3     | 7.8             | 7.9     | 3                       | 3.0     |
|           |                   |                 |               |           |     | 28.7             |         | 7.8   |         | 0.1          |         | 4.2               |         | 7.9                     |         |                 |         |                         |         |
| 17-Sep-24 | Sunny             | Calm            | 11:07         | Middle    | 0.2 | 28.4             | 28.4    | 7.8   | 7.8     | 0.1          | 0.1     | 58.2              | 57.7    | 4.5                     | 4.5     | 7.3             | 7.3     | 6                       | 6.0     |
|           |                   |                 |               |           |     | 28.4             |         | 7.8   |         | 0.1          |         | 4.4               |         | 7.3                     |         |                 |         |                         |         |
| 19-Sep-24 | Sunny             | Calm            | 14:25         | Middle    | 0.2 | 28.4             | 28.4    | 9.0   | 9.0     | 0.1          | 0.1     | 53.1              | 53.0    | 4.1                     | 4.1     | 7.5             | 7.5     | 7                       | 7.0     |
|           |                   |                 |               |           |     | 28.4             |         | 8.9   |         | 0.1          |         | 4.1               |         | 7.5                     |         |                 |         |                         |         |
| 21-Sep-24 | Rainy             | Calm            | 09:30         | Middle    | 0.2 | 27.5             | 27.5    | 7.5   | 7.5     | 0.1          | 0.1     | 53.4              | 53.6    | 4.2                     | 4.3     | 18.9            | 18.9    | 17                      | 17.5    |
|           |                   |                 |               |           |     | 27.5             |         | 7.5   |         | 0.1          |         | 4.3               |         | 18.9                    |         |                 |         |                         |         |
| 23-Sep-24 | Cloudy            | Calm            | 12:33         | Middle    | 0.2 | 26.5             | 26.5    | 7.4   | 7.4     | 0.03         | 0.03    | 71.1              | 70.9    | 5.7                     | 5.7     | 7.8             | 7.9     | 4                       | 4.5     |
|           |                   |                 |               |           |     | 26.5             |         | 7.3   |         | 0.03         |         | 5.7               |         | 8.0                     |         |                 |         |                         |         |
| 25-Sep-24 | Sunny             | Calm            | 13:57         | Middle    | 0.2 | 27.7             | 27.7    | 9.3   | 9.3     | 0.1          | 0.1     | 55.8              | 55.7    | 4.4                     | 4.4     | 5.0             | 5.1     | 3                       | 2.5     |
|           |                   |                 |               |           |     | 27.7             |         | 9.3   |         | 0.1          |         | 4.4               |         | 5.1                     |         |                 |         |                         |         |
| 27-Sep-24 | Sunny             | Calm            | 10:34         | Middle    | 0.2 | 26.8             | 26.8    | 7.8   | 7.8     | 0.02         | 0.02    | 51.9              | 51.6    | 4.2                     | 4.2     | 2.7             | 2.8     | 6                       | 6.0     |
|           |                   |                 |               |           |     | 26.7             |         | 7.8   |         | 0.02         |         | 4.1               |         | 2.8                     |         |                 |         |                         |         |
| 30-Sep-24 | Sunny             | Calm            | 10:35         | Middle    | 0.2 | 27.6             | 27.6    | 7.5   | 7.5     | 0.1          | 0.1     | 60.0              | 59.8    | 4.7                     | 4.7     | 8.3             | 8.3     | 5                       | 5.0     |
|           |                   |                 |               |           |     | 27.6             |         | 7.5   |         | 0.1          |         | 4.7               |         | 8.3                     |         |                 |         |                         |         |

Remarks: \*DA: Depth-Averaged

\*\*Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.



## Dissolved Oxygen



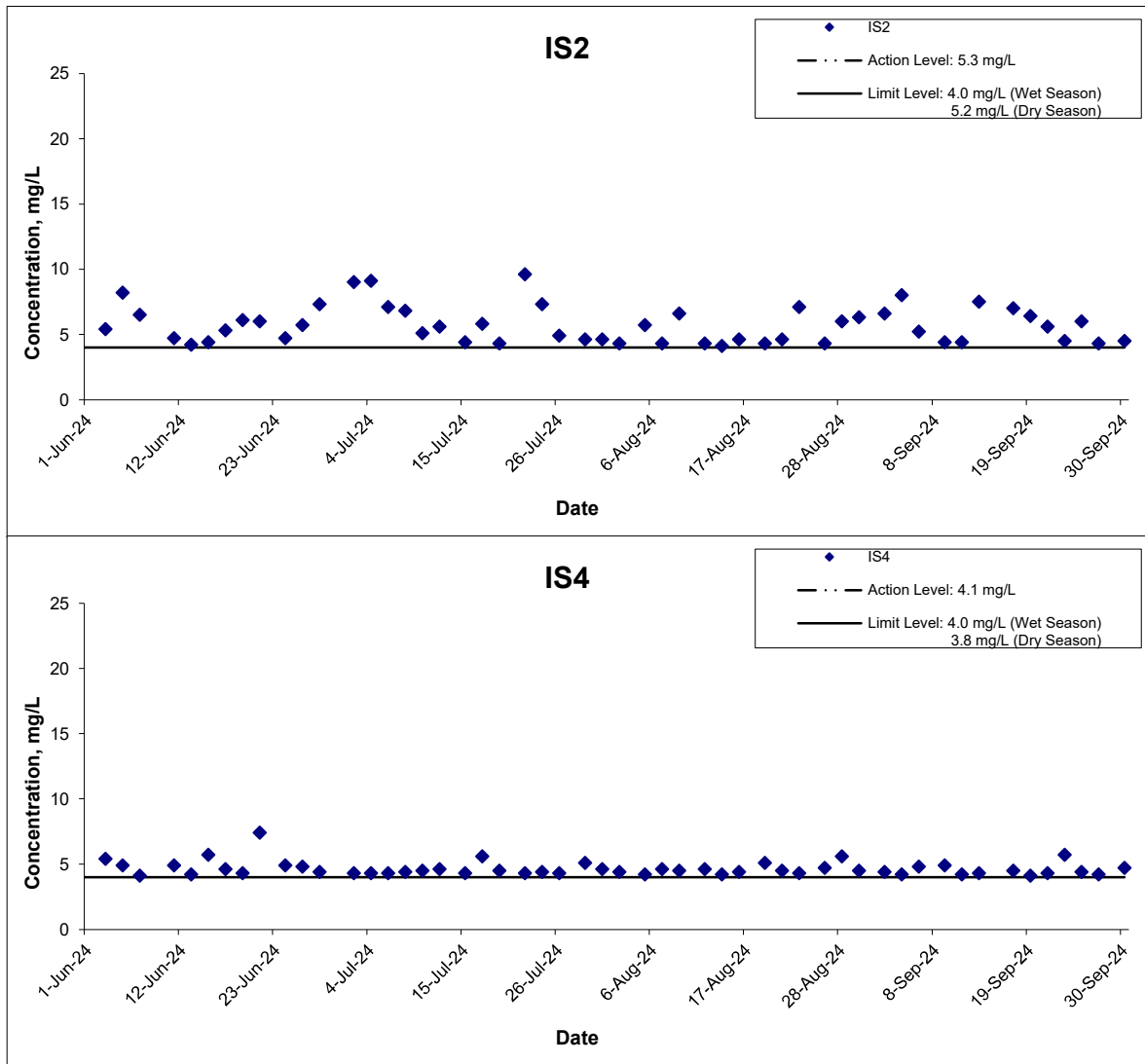
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 Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop:  
 Main Works Package 1 - Environmental Team  
 Graphical Presentation of Water Quality Monitoring  
 Results

Scale  
 N.T.S  
 Date  
 Sept 24

Project  
 No. WMA21009  
 Appendix  
 H



## Dissolved Oxygen



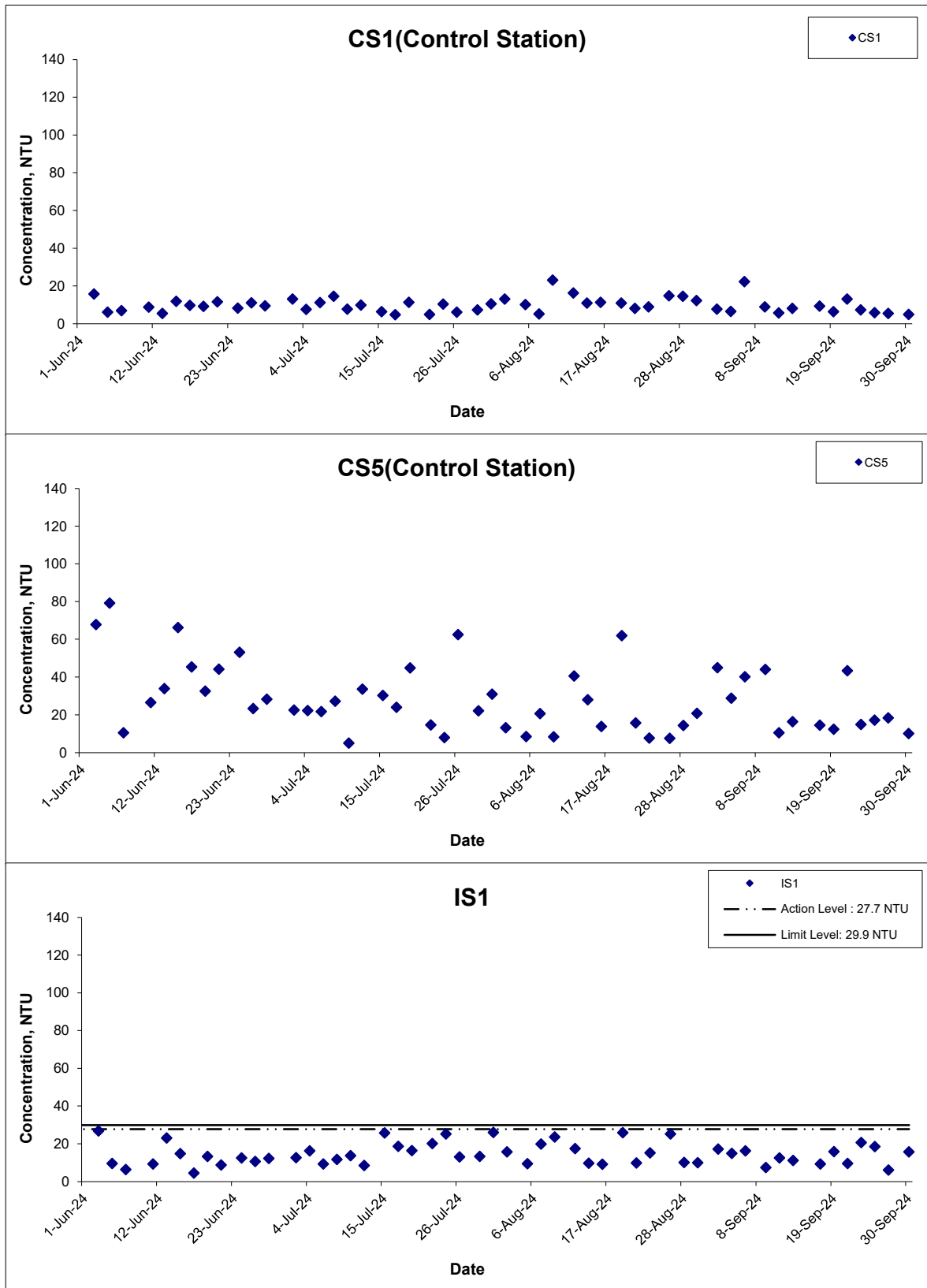
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 Development of Lok Ma Chau Loop:  
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Scale  
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 Appendix  
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## Turbidity



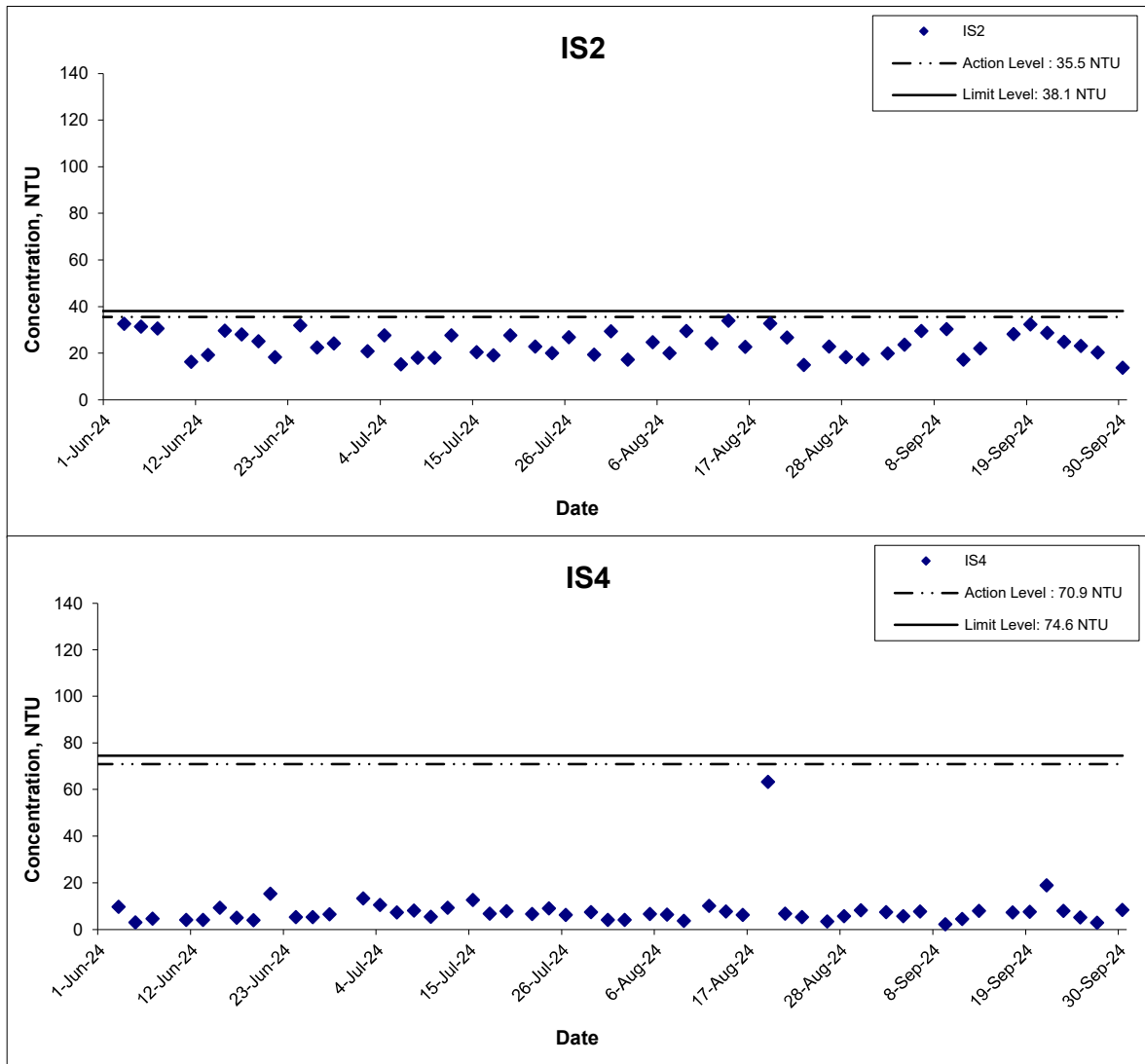
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## Turbidity



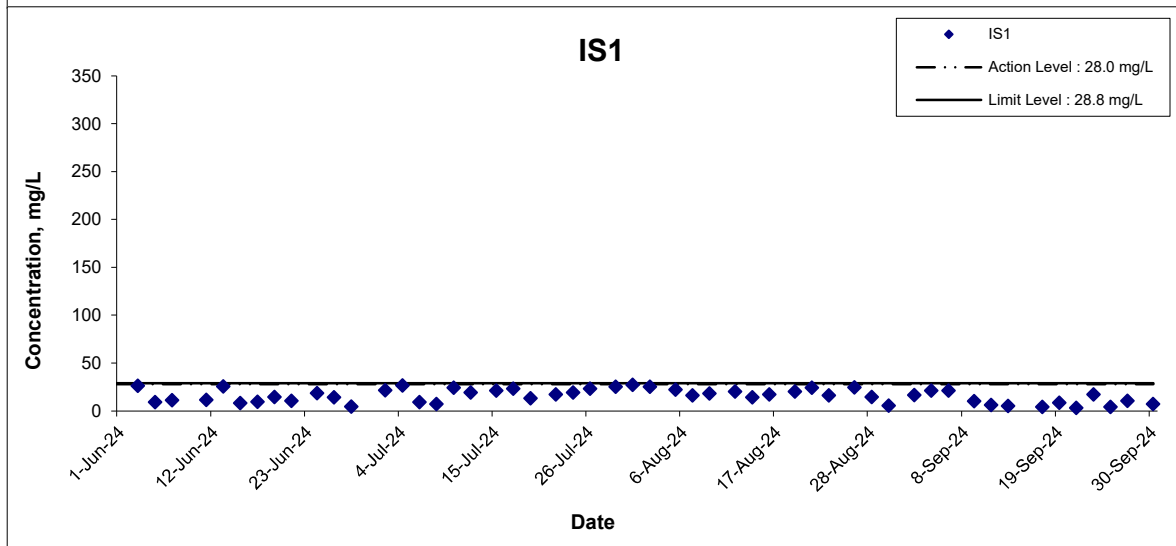
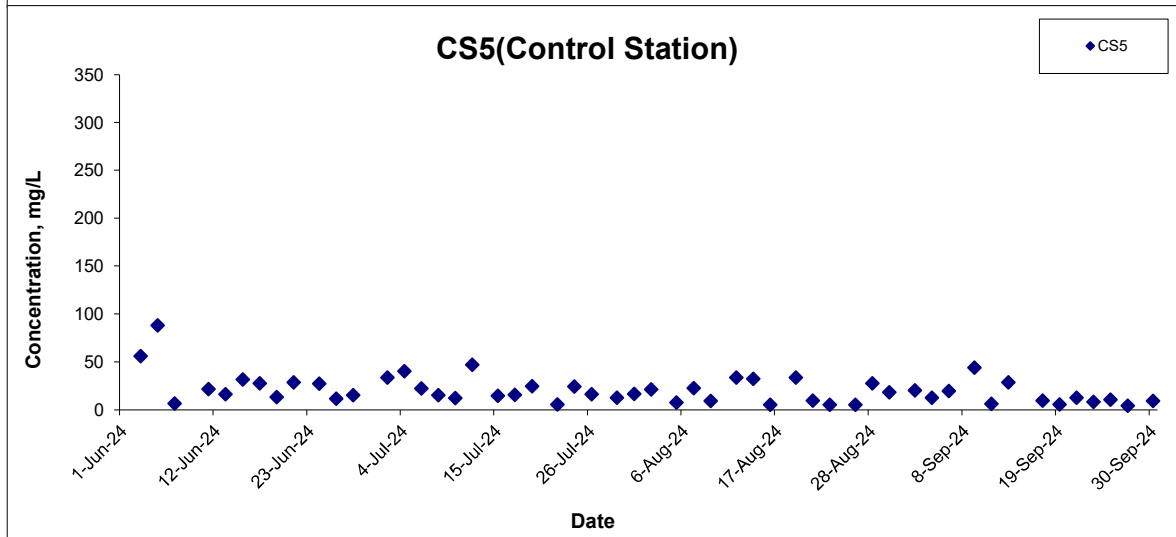
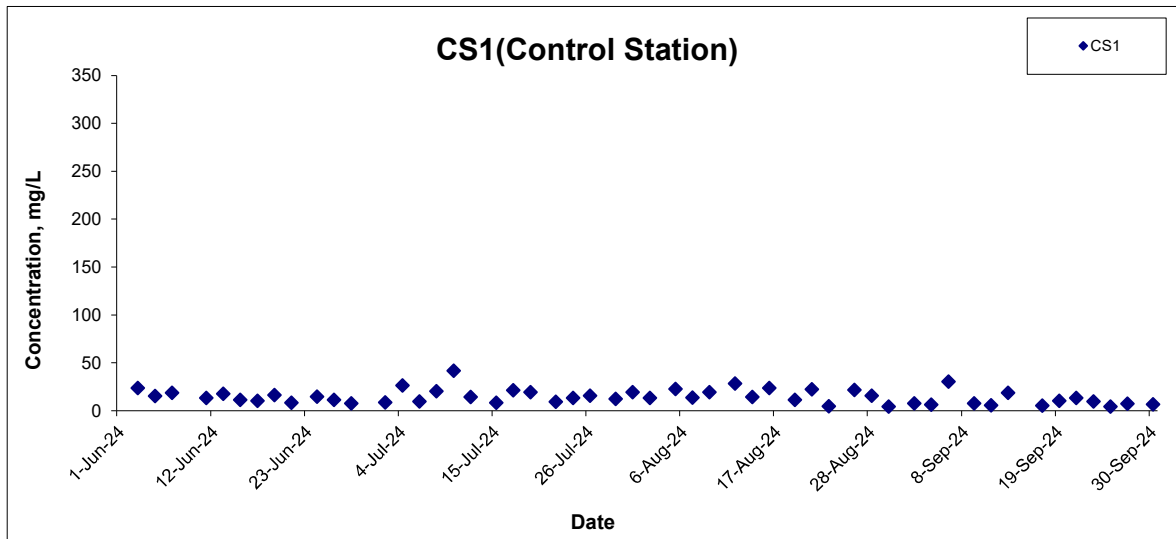
Title  
 Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop:  
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 Graphical Presentation of Water Quality Monitoring  
 Results

Scale  
 N.T.S  
 Date  
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 H



## Suspended Solids



Title                      Service Contract No. WD/04/2020  
 Development of Lok Ma Chau Loop:  
 Main Works Package 1 - Environmental Team

**Graphical Presentation of Water Quality Monitoring Results**

Scale  
 N.T.S

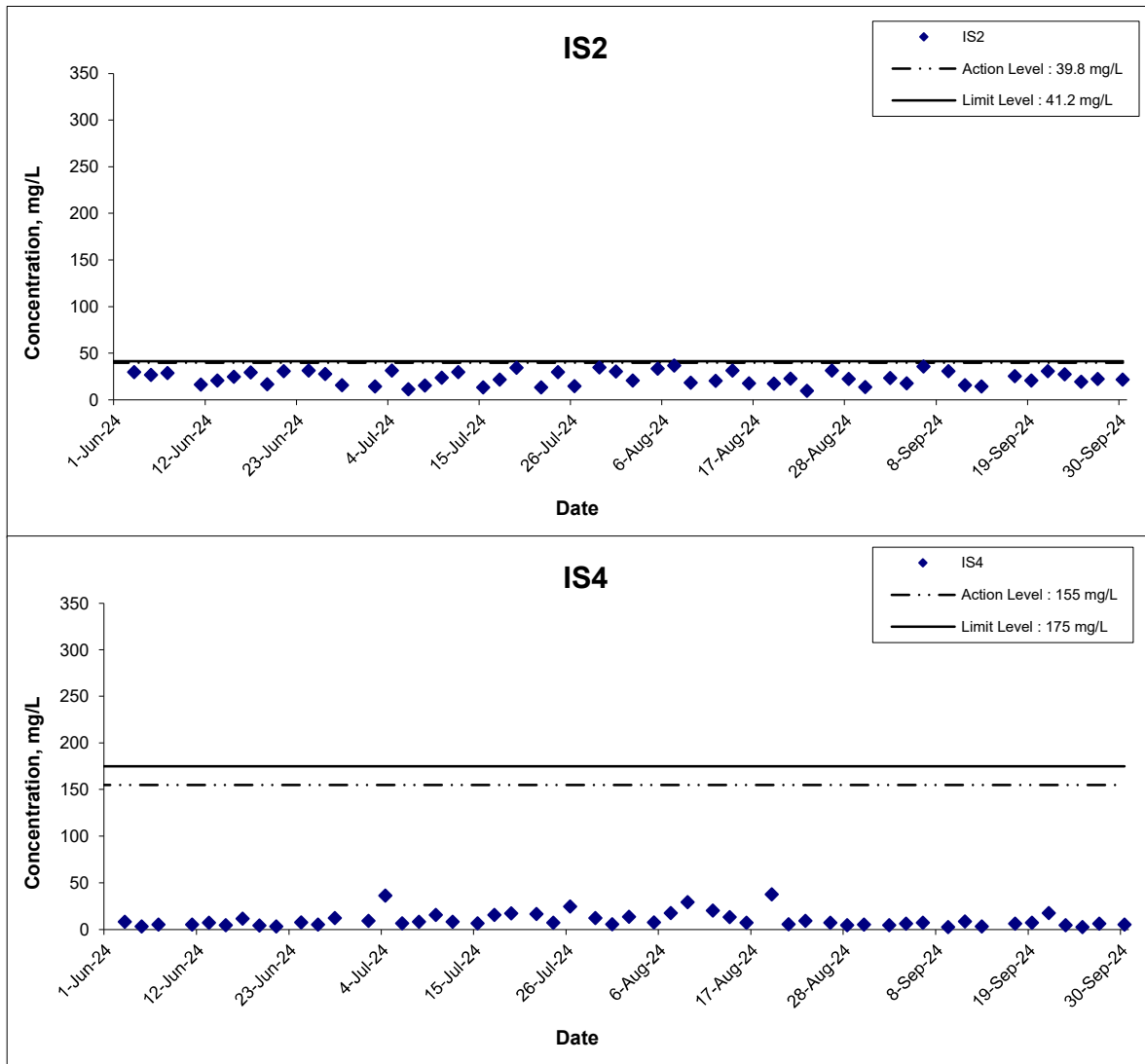
Date  
 Sept 24


Project  
 No.    WMA21009

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## Suspended Solids



|  |                 |                         |  |
|--|-----------------|-------------------------|--|
| Title<br>Service Contract No. WD/04/2020<br>Development of Lok Ma Chau Loop:<br>Main Works Package 1 - Environmental Team<br><br>Graphical Presentation of Water Quality Monitoring<br>Results | Scale<br>N.T.S  | Project<br>No. WMA21009 | <br>consulting . testing . research |
|  | Date<br>Sept 24 | Appendix<br>H           |  |

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**APPENDIX I  
WEATHER CONDITION**

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**APPENDIX I –  
GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD**

| <b>Date</b>       | <b>Mean Air Temperature (°C)</b> | <b>Mean Relative Humidity (%)</b> | <b>Precipitation (mm)</b> |
|-------------------|----------------------------------|-----------------------------------|---------------------------|
| 1 September 2024  | 30.1                             | 82                                | Trace                     |
| 2 September 2024  | 30.6                             | 78                                | Trace                     |
| 3 September 2024  | 30.2                             | 78                                | 35.5                      |
| 4 September 2024  | 29.7                             | 75                                | 0.6                       |
| 5 September 2024  | 30.4                             | 71                                | 21.5                      |
| 6 September 2024  | 27.6                             | 90                                | 84.1                      |
| 7 September 2024  | 29.2                             | 88                                | 5.8                       |
| 8 September 2024  | 28.2                             | 91                                | 37.8                      |
| 9 September 2024  | 27.8                             | 85                                | 13                        |
| 10 September 2024 | 29.4                             | 77                                | 0.0                       |
| 11 September 2024 | 30.4                             | 76                                | 0.0                       |
| 12 September 2024 | 29.8                             | 77                                | 0.0                       |
| 13 September 2024 | 3.4                              | 73                                | 0.1                       |
| 14 September 2024 | 29.2                             | 76                                | 57.2                      |
| 15 September 2024 | 29.3                             | 76                                | 2.4                       |
| 16 September 2024 | 28.5                             | 81                                | 27.4                      |
| 17 September 2024 | 30.8                             | 74                                | 16.0                      |

| <b>Date</b>       | <b>Mean Air Temperature (°C)</b> | <b>Mean Relative Humidity (%)</b> | <b>Precipitation (mm)</b> |
|-------------------|----------------------------------|-----------------------------------|---------------------------|
| 18 September 2024 | 29.7                             | 73                                | Trace                     |
| 19 September 2024 | 30.2                             | 75                                | 0.0                       |
| 20 September 2024 | 29.8                             | 79                                | 4.6                       |
| 21 September 2024 | 27.7                             | 90                                | 72.9                      |
| 22 September 2024 | 27.1                             | 88                                | 32.1                      |
| 23 September 2024 | 25.7                             | 90                                | 24.9                      |
| 24 September 2024 | 26.7                             | 91                                | 75.0                      |
| 25 September 2024 | 28.5                             | 83                                | 5.4                       |
| 26 September 2024 | 29.4                             | 78                                | 0.0                       |
| 27 September 2024 | 29.9                             | 76                                | 0.0                       |
| 28 September 2024 | 29.1                             | 80                                | 1.3                       |
| 29 September 2024 | 29.2                             | 76                                | 3.3                       |
| 30 September 2024 | 30.5                             | 71                                | 0.0                       |

\* The above information was extracted from the daily weather summary by Hong Kong Observatory.

## Appendix I - Wind Data

| Date       | Time  | Wind Speed m/s | Direction |
|------------|-------|----------------|-----------|
| 1-Sep-2024 | 00:00 | 0.9            | W         |
| 1-Sep-2024 | 01:00 | 0.4            | W         |
| 1-Sep-2024 | 02:00 | 0.0            | W         |
| 1-Sep-2024 | 03:00 | 0.0            | ---       |
| 1-Sep-2024 | 04:00 | 0.0            | ---       |
| 1-Sep-2024 | 05:00 | 0.0            | WNW       |
| 1-Sep-2024 | 06:00 | 0.0            | ---       |
| 1-Sep-2024 | 07:00 | 0.0            | ---       |
| 1-Sep-2024 | 08:00 | 0.0            | NW        |
| 1-Sep-2024 | 09:00 | 0.0            | W         |
| 1-Sep-2024 | 10:00 | 0.0            | W         |
| 1-Sep-2024 | 11:00 | 0.0            | WNW       |
| 1-Sep-2024 | 12:00 | 0.0            | SW        |
| 1-Sep-2024 | 13:00 | 0.0            | E         |
| 1-Sep-2024 | 14:00 | 0.4            | E         |
| 1-Sep-2024 | 15:00 | 0.4            | E         |
| 1-Sep-2024 | 16:00 | 0.0            | E         |
| 1-Sep-2024 | 17:00 | 0.0            | E         |
| 1-Sep-2024 | 18:00 | 0.4            | E         |
| 1-Sep-2024 | 19:00 | 0.0            | ENE       |
| 1-Sep-2024 | 20:00 | 0.0            | W         |
| 1-Sep-2024 | 21:00 | 0.0            | W         |
| 1-Sep-2024 | 22:00 | 0.0            | ---       |
| 1-Sep-2024 | 23:00 | 0.0            | ---       |
| 2-Sep-2024 | 00:00 | 0.0            | ---       |
| 2-Sep-2024 | 01:00 | 0.0            | ---       |
| 2-Sep-2024 | 02:00 | 0.0            | ---       |
| 2-Sep-2024 | 03:00 | 0.0            | ---       |
| 2-Sep-2024 | 04:00 | 0.0            | ---       |
| 2-Sep-2024 | 05:00 | 0.0            | ---       |
| 2-Sep-2024 | 06:00 | 0.0            | ---       |
| 2-Sep-2024 | 07:00 | 0.0            | ---       |
| 2-Sep-2024 | 08:00 | 0.0            | NE        |
| 2-Sep-2024 | 09:00 | 0.0            | ENE       |
| 2-Sep-2024 | 10:00 | 0.0            | ENE       |
| 2-Sep-2024 | 11:00 | 0.0            | E         |
| 2-Sep-2024 | 12:00 | 0.4            | E         |
| 2-Sep-2024 | 13:00 | 0.0            | E         |
| 2-Sep-2024 | 14:00 | 0.4            | ENE       |
| 2-Sep-2024 | 15:00 | 0.0            | ENE       |
| 2-Sep-2024 | 16:00 | 0.0            | E         |
| 2-Sep-2024 | 17:00 | 0.0            | ---       |
| 2-Sep-2024 | 18:00 | 0.0            | W         |
| 2-Sep-2024 | 19:00 | 0.0            | WNW       |
| 2-Sep-2024 | 20:00 | 0.0            | WNW       |
| 2-Sep-2024 | 21:00 | 0.0            | WNW       |
| 2-Sep-2024 | 22:00 | 0.0            | ---       |
| 2-Sep-2024 | 23:00 | 0.0            | NW        |
| 3-Sep-2024 | 00:00 | 0.0            | ---       |
| 3-Sep-2024 | 01:00 | 0.0            | ENE       |
| 3-Sep-2024 | 02:00 | 0.0            | ---       |
| 3-Sep-2024 | 03:00 | 0.0            | ---       |

## Appendix I - Wind Data

| Date       | Time  | Wind Speed m/s | Direction |
|------------|-------|----------------|-----------|
| 3-Sep-2024 | 04:00 | 0.0            | NE        |
| 3-Sep-2024 | 05:00 | 0.0            | ---       |
| 3-Sep-2024 | 06:00 | 0.0            | ---       |
| 3-Sep-2024 | 07:00 | 0.0            | ---       |
| 3-Sep-2024 | 08:00 | 0.0            | ---       |
| 3-Sep-2024 | 09:00 | 0.0            | NNW       |
| 3-Sep-2024 | 10:00 | 0.0            | W         |
| 3-Sep-2024 | 11:00 | 0.0            | W         |
| 3-Sep-2024 | 12:00 | 0.0            | W         |
| 3-Sep-2024 | 13:00 | 0.0            | W         |
| 3-Sep-2024 | 14:00 | 0.0            | E         |
| 3-Sep-2024 | 15:00 | 0.0            | E         |
| 3-Sep-2024 | 16:00 | 0.0            | E         |
| 3-Sep-2024 | 17:00 | 0.4            | E         |
| 3-Sep-2024 | 18:00 | 0.0            | ENE       |
| 3-Sep-2024 | 19:00 | 0.0            | ENE       |
| 3-Sep-2024 | 20:00 | 0.0            | ---       |
| 3-Sep-2024 | 21:00 | 0.0            | ---       |
| 3-Sep-2024 | 22:00 | 0.0            | ---       |
| 3-Sep-2024 | 23:00 | 0.9            | W         |
| 4-Sep-2024 | 00:00 | 0.0            | ---       |
| 4-Sep-2024 | 01:00 | 0.0            | WNW       |
| 4-Sep-2024 | 02:00 | 0.0            | ---       |
| 4-Sep-2024 | 03:00 | 0.0            | NW        |
| 4-Sep-2024 | 04:00 | 0.0            | WNW       |
| 4-Sep-2024 | 05:00 | 0.0            | ---       |
| 4-Sep-2024 | 06:00 | 0.0            | ---       |
| 4-Sep-2024 | 07:00 | 0.0            | ---       |
| 4-Sep-2024 | 08:00 | 0.0            | WNW       |
| 4-Sep-2024 | 09:00 | 0.0            | ---       |
| 4-Sep-2024 | 10:00 | 0.0            | ---       |
| 4-Sep-2024 | 11:00 | 0.0            | W         |
| 4-Sep-2024 | 12:00 | 0.0            | SSW       |
| 4-Sep-2024 | 13:00 | 0.0            | SW        |
| 4-Sep-2024 | 14:00 | 0.0            | WSW       |
| 4-Sep-2024 | 15:00 | 0.4            | W         |
| 4-Sep-2024 | 16:00 | 0.4            | W         |
| 4-Sep-2024 | 17:00 | 0.4            | W         |
| 4-Sep-2024 | 18:00 | 1.3            | W         |
| 4-Sep-2024 | 19:00 | 0.4            | W         |
| 4-Sep-2024 | 20:00 | 0.9            | W         |
| 4-Sep-2024 | 21:00 | 0.4            | W         |
| 4-Sep-2024 | 22:00 | 0.9            | W         |
| 4-Sep-2024 | 23:00 | 0.0            | W         |
| 5-Sep-2024 | 00:00 | 0.0            | WSW       |
| 5-Sep-2024 | 01:00 | 0.4            | W         |
| 5-Sep-2024 | 02:00 | 0.0            | W         |
| 5-Sep-2024 | 03:00 | 0.0            | NW        |
| 5-Sep-2024 | 04:00 | 0.4            | WNW       |
| 5-Sep-2024 | 05:00 | 0.0            | W         |
| 5-Sep-2024 | 06:00 | 0.0            | W         |
| 5-Sep-2024 | 07:00 | 0.4            | W         |

## Appendix I - Wind Data

| Date       | Time  | Wind Speed m/s | Direction |
|------------|-------|----------------|-----------|
| 5-Sep-2024 | 08:00 | 0.4            | W         |
| 5-Sep-2024 | 09:00 | 0.4            | W         |
| 5-Sep-2024 | 10:00 | 0.9            | W         |
| 5-Sep-2024 | 11:00 | 1.3            | W         |
| 5-Sep-2024 | 12:00 | 0.9            | W         |
| 5-Sep-2024 | 13:00 | 0.9            | W         |
| 5-Sep-2024 | 14:00 | 0.9            | W         |
| 5-Sep-2024 | 15:00 | 1.3            | W         |
| 5-Sep-2024 | 16:00 | 0.4            | W         |
| 5-Sep-2024 | 17:00 | 1.8            | W         |
| 5-Sep-2024 | 18:00 | 3.1            | W         |
| 5-Sep-2024 | 19:00 | 1.8            | W         |
| 5-Sep-2024 | 20:00 | 1.8            | W         |
| 5-Sep-2024 | 21:00 | 1.8            | W         |
| 5-Sep-2024 | 22:00 | 3.1            | W         |
| 5-Sep-2024 | 23:00 | 3.6            | W         |
| 6-Sep-2024 | 00:00 | 3.1            | W         |
| 6-Sep-2024 | 01:00 | 2.7            | W         |
| 6-Sep-2024 | 02:00 | 2.2            | W         |
| 6-Sep-2024 | 03:00 | 1.8            | W         |
| 6-Sep-2024 | 04:00 | 3.1            | W         |
| 6-Sep-2024 | 05:00 | 4.0            | W         |
| 6-Sep-2024 | 06:00 | 3.6            | W         |
| 6-Sep-2024 | 07:00 | 3.1            | W         |
| 6-Sep-2024 | 08:00 | 2.7            | W         |
| 6-Sep-2024 | 09:00 | 3.6            | W         |
| 6-Sep-2024 | 10:00 | 3.6            | W         |
| 6-Sep-2024 | 11:00 | 3.6            | W         |
| 6-Sep-2024 | 12:00 | 3.1            | W         |
| 6-Sep-2024 | 13:00 | 3.6            | W         |
| 6-Sep-2024 | 14:00 | 3.1            | W         |
| 6-Sep-2024 | 15:00 | 2.2            | W         |
| 6-Sep-2024 | 16:00 | 3.1            | W         |
| 6-Sep-2024 | 17:00 | 2.7            | W         |
| 6-Sep-2024 | 18:00 | 2.2            | W         |
| 6-Sep-2024 | 19:00 | 3.1            | W         |
| 6-Sep-2024 | 20:00 | 2.2            | W         |
| 6-Sep-2024 | 21:00 | 1.8            | W         |
| 6-Sep-2024 | 22:00 | 3.1            | W         |
| 6-Sep-2024 | 23:00 | 2.7            | W         |
| 7-Sep-2024 | 00:00 | 2.2            | W         |
| 7-Sep-2024 | 01:00 | 0.4            | W         |
| 7-Sep-2024 | 02:00 | 0.4            | W         |
| 7-Sep-2024 | 03:00 | 0.4            | W         |
| 7-Sep-2024 | 04:00 | 0.4            | W         |
| 7-Sep-2024 | 05:00 | 0.9            | W         |
| 7-Sep-2024 | 06:00 | 0.4            | W         |
| 7-Sep-2024 | 07:00 | 0.0            | W         |
| 7-Sep-2024 | 08:00 | 0.0            | W         |
| 7-Sep-2024 | 09:00 | 0.0            | WSW       |
| 7-Sep-2024 | 10:00 | 0.0            | W         |
| 7-Sep-2024 | 11:00 | 0.4            | W         |

## Appendix I - Wind Data

| Date       | Time  | Wind Speed m/s | Direction |
|------------|-------|----------------|-----------|
| 7-Sep-2024 | 12:00 | 0.0            | WSW       |
| 7-Sep-2024 | 13:00 | 0.4            | W         |
| 7-Sep-2024 | 14:00 | 0.4            | W         |
| 7-Sep-2024 | 15:00 | 0.4            | W         |
| 7-Sep-2024 | 16:00 | 1.3            | W         |
| 7-Sep-2024 | 17:00 | 0.4            | W         |
| 7-Sep-2024 | 18:00 | 0.4            | W         |
| 7-Sep-2024 | 19:00 | 0.4            | W         |
| 7-Sep-2024 | 20:00 | 1.3            | W         |
| 7-Sep-2024 | 21:00 | 2.2            | W         |
| 7-Sep-2024 | 22:00 | 2.2            | W         |
| 7-Sep-2024 | 23:00 | 2.2            | W         |
| 8-Sep-2024 | 00:00 | 1.8            | W         |
| 8-Sep-2024 | 01:00 | 0.9            | W         |
| 8-Sep-2024 | 02:00 | 0.0            | W         |
| 8-Sep-2024 | 03:00 | 0.0            | ---       |
| 8-Sep-2024 | 04:00 | 0.0            | W         |
| 8-Sep-2024 | 05:00 | 0.0            | W         |
| 8-Sep-2024 | 06:00 | 0.0            | ---       |
| 8-Sep-2024 | 07:00 | 0.0            | ---       |
| 8-Sep-2024 | 08:00 | 0.0            | ---       |
| 8-Sep-2024 | 09:00 | 0.0            | W         |
| 8-Sep-2024 | 10:00 | 0.4            | W         |
| 8-Sep-2024 | 11:00 | 0.4            | W         |
| 8-Sep-2024 | 12:00 | 1.3            | W         |
| 8-Sep-2024 | 13:00 | 1.3            | W         |
| 8-Sep-2024 | 14:00 | 1.3            | W         |
| 8-Sep-2024 | 15:00 | 0.4            | W         |
| 8-Sep-2024 | 16:00 | 0.9            | W         |
| 8-Sep-2024 | 17:00 | 0.9            | W         |
| 8-Sep-2024 | 18:00 | 0.9            | W         |
| 8-Sep-2024 | 19:00 | 0.9            | W         |
| 8-Sep-2024 | 20:00 | 0.9            | W         |
| 8-Sep-2024 | 21:00 | 0.9            | W         |
| 8-Sep-2024 | 22:00 | 0.9            | W         |
| 8-Sep-2024 | 23:00 | 0.0            | ---       |
| 9-Sep-2024 | 00:00 | 0.4            | W         |
| 9-Sep-2024 | 01:00 | 0.9            | W         |
| 9-Sep-2024 | 02:00 | 0.4            | W         |
| 9-Sep-2024 | 03:00 | 0.0            | WSW       |
| 9-Sep-2024 | 04:00 | 0.0            | WSW       |
| 9-Sep-2024 | 05:00 | 0.0            | W         |
| 9-Sep-2024 | 06:00 | 0.4            | W         |
| 9-Sep-2024 | 07:00 | 0.0            | W         |
| 9-Sep-2024 | 08:00 | 0.9            | W         |
| 9-Sep-2024 | 09:00 | 0.4            | W         |
| 9-Sep-2024 | 10:00 | 1.3            | W         |
| 9-Sep-2024 | 11:00 | 0.9            | W         |
| 9-Sep-2024 | 12:00 | 0.9            | W         |
| 9-Sep-2024 | 13:00 | 0.9            | NW        |
| 9-Sep-2024 | 14:00 | 0.9            | W         |
| 9-Sep-2024 | 15:00 | 0.4            | WNW       |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 9-Sep-2024  | 16:00 | 0.0            | NW        |
| 9-Sep-2024  | 17:00 | 0.0            | W         |
| 9-Sep-2024  | 18:00 | 0.0            | W         |
| 9-Sep-2024  | 19:00 | 0.0            | W         |
| 9-Sep-2024  | 20:00 | 0.0            | W         |
| 9-Sep-2024  | 21:00 | 0.4            | W         |
| 9-Sep-2024  | 22:00 | 0.0            | W         |
| 9-Sep-2024  | 23:00 | 0.0            | ---       |
| 10-Sep-2024 | 00:00 | 0.0            | ---       |
| 10-Sep-2024 | 01:00 | 0.0            | ---       |
| 10-Sep-2024 | 02:00 | 0.0            | ---       |
| 10-Sep-2024 | 03:00 | 0.0            | ---       |
| 10-Sep-2024 | 04:00 | 0.0            | ---       |
| 10-Sep-2024 | 05:00 | 0.0            | W         |
| 10-Sep-2024 | 06:00 | 0.0            | WNW       |
| 10-Sep-2024 | 07:00 | 0.0            | WNW       |
| 10-Sep-2024 | 08:00 | 0.0            | WNW       |
| 10-Sep-2024 | 09:00 | 0.4            | W         |
| 10-Sep-2024 | 10:00 | 0.4            | W         |
| 10-Sep-2024 | 11:00 | 0.4            | W         |
| 10-Sep-2024 | 12:00 | 0.0            | W         |
| 10-Sep-2024 | 13:00 | 0.4            | W         |
| 10-Sep-2024 | 14:00 | 0.0            | WNW       |
| 10-Sep-2024 | 15:00 | 0.0            | WNW       |
| 10-Sep-2024 | 16:00 | 0.0            | NNW       |
| 10-Sep-2024 | 17:00 | 0.4            | WNW       |
| 10-Sep-2024 | 18:00 | 0.0            | NW        |
| 10-Sep-2024 | 19:00 | 0.0            | W         |
| 10-Sep-2024 | 20:00 | 0.0            | NNW       |
| 10-Sep-2024 | 21:00 | 0.4            | W         |
| 10-Sep-2024 | 22:00 | 0.0            | W         |
| 10-Sep-2024 | 23:00 | 0.0            | W         |
| 11-Sep-2024 | 00:00 | 0.0            | ---       |
| 11-Sep-2024 | 01:00 | 0.0            | ---       |
| 11-Sep-2024 | 02:00 | 0.0            | ---       |
| 11-Sep-2024 | 03:00 | 0.0            | W         |
| 11-Sep-2024 | 04:00 | 0.0            | NW        |
| 11-Sep-2024 | 05:00 | 0.0            | NW        |
| 11-Sep-2024 | 06:00 | 0.0            | ---       |
| 11-Sep-2024 | 07:00 | 0.0            | NW        |
| 11-Sep-2024 | 08:00 | 0.0            | NW        |
| 11-Sep-2024 | 09:00 | 0.0            | ---       |
| 11-Sep-2024 | 10:00 | 0.0            | WNW       |
| 11-Sep-2024 | 11:00 | 0.4            | W         |
| 11-Sep-2024 | 12:00 | 0.4            | W         |
| 11-Sep-2024 | 13:00 | 0.4            | WNW       |
| 11-Sep-2024 | 14:00 | 0.4            | NW        |
| 11-Sep-2024 | 15:00 | 0.4            | E         |
| 11-Sep-2024 | 16:00 | 0.9            | E         |
| 11-Sep-2024 | 17:00 | 0.4            | E         |
| 11-Sep-2024 | 18:00 | 0.0            | ENE       |
| 11-Sep-2024 | 19:00 | 0.0            | ENE       |



## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 11-Sep-2024 | 20:00 | 0.0            | ---       |
| 11-Sep-2024 | 21:00 | 0.0            | ---       |
| 11-Sep-2024 | 22:00 | 0.0            | ---       |
| 11-Sep-2024 | 23:00 | 0.0            | ---       |
| 12-Sep-2024 | 00:00 | 0.0            | ---       |
| 12-Sep-2024 | 01:00 | 0.0            | ---       |
| 12-Sep-2024 | 02:00 | 0.0            | ---       |
| 12-Sep-2024 | 03:00 | 0.0            | NW        |
| 12-Sep-2024 | 04:00 | 0.0            | NW        |
| 12-Sep-2024 | 05:00 | 0.0            | NW        |
| 12-Sep-2024 | 06:00 | 0.0            | ---       |
| 12-Sep-2024 | 07:00 | 0.0            | ---       |
| 12-Sep-2024 | 08:00 | 0.0            | ---       |
| 12-Sep-2024 | 09:00 | 0.0            | ---       |
| 12-Sep-2024 | 10:00 | 0.0            | ENE       |
| 12-Sep-2024 | 11:00 | 0.0            | E         |
| 12-Sep-2024 | 12:00 | 0.4            | E         |
| 12-Sep-2024 | 13:00 | 0.9            | ENE       |
| 12-Sep-2024 | 14:00 | 0.4            | ENE       |
| 12-Sep-2024 | 15:00 | 0.0            | ENE       |
| 12-Sep-2024 | 16:00 | 0.0            | WSW       |
| 12-Sep-2024 | 17:00 | 0.0            | E         |
| 12-Sep-2024 | 18:00 | 0.0            | N         |
| 12-Sep-2024 | 19:00 | 0.0            | WNW       |
| 12-Sep-2024 | 20:00 | 0.0            | NW        |
| 12-Sep-2024 | 21:00 | 0.0            | WNW       |
| 12-Sep-2024 | 22:00 | 0.0            | W         |
| 12-Sep-2024 | 23:00 | 0.0            | WNW       |
| 13-Sep-2024 | 00:00 | 0.0            | W         |
| 13-Sep-2024 | 01:00 | 0.0            | W         |
| 13-Sep-2024 | 02:00 | 0.0            | W         |
| 13-Sep-2024 | 03:00 | 0.0            | W         |
| 13-Sep-2024 | 04:00 | 0.0            | W         |
| 13-Sep-2024 | 05:00 | 0.0            | ---       |
| 13-Sep-2024 | 06:00 | 0.0            | ---       |
| 13-Sep-2024 | 07:00 | 0.0            | ---       |
| 13-Sep-2024 | 08:00 | 0.0            | WNW       |
| 13-Sep-2024 | 09:00 | 0.0            | W         |
| 13-Sep-2024 | 10:00 | 0.0            | W         |
| 13-Sep-2024 | 11:00 | 0.4            | W         |
| 13-Sep-2024 | 12:00 | 0.4            | W         |
| 13-Sep-2024 | 13:00 | 0.4            | W         |
| 13-Sep-2024 | 14:00 | 0.0            | WNW       |
| 13-Sep-2024 | 15:00 | 0.0            | ENE       |
| 13-Sep-2024 | 16:00 | 0.4            | E         |
| 13-Sep-2024 | 17:00 | 0.0            | ENE       |
| 13-Sep-2024 | 18:00 | 0.0            | NE        |
| 13-Sep-2024 | 19:00 | 0.0            | ---       |
| 13-Sep-2024 | 20:00 | 0.4            | W         |
| 13-Sep-2024 | 21:00 | 0.0            | ---       |
| 13-Sep-2024 | 22:00 | 0.0            | ---       |
| 13-Sep-2024 | 23:00 | 0.0            | ---       |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 14-Sep-2024 | 00:00 | 0.0            | WNW       |
| 14-Sep-2024 | 01:00 | 0.0            | N         |
| 14-Sep-2024 | 02:00 | 0.0            | ---       |
| 14-Sep-2024 | 03:00 | 0.0            | ---       |
| 14-Sep-2024 | 04:00 | 0.0            | WNW       |
| 14-Sep-2024 | 05:00 | 0.0            | WNW       |
| 14-Sep-2024 | 06:00 | 0.0            | ---       |
| 14-Sep-2024 | 07:00 | 0.0            | ---       |
| 14-Sep-2024 | 08:00 | 0.0            | NW        |
| 14-Sep-2024 | 09:00 | 0.0            | NW        |
| 14-Sep-2024 | 10:00 | 0.0            | W         |
| 14-Sep-2024 | 11:00 | 0.0            | W         |
| 14-Sep-2024 | 12:00 | 0.0            | NW        |
| 14-Sep-2024 | 13:00 | 0.0            | W         |
| 14-Sep-2024 | 14:00 | 0.0            | ---       |
| 14-Sep-2024 | 15:00 | 0.0            | ---       |
| 14-Sep-2024 | 16:00 | 0.0            | ENE       |
| 14-Sep-2024 | 17:00 | 0.0            | NE        |
| 14-Sep-2024 | 18:00 | 0.0            | ENE       |
| 14-Sep-2024 | 19:00 | 0.0            | ---       |
| 14-Sep-2024 | 20:00 | 0.0            | ---       |
| 14-Sep-2024 | 21:00 | 0.0            | ---       |
| 14-Sep-2024 | 22:00 | 0.0            | ---       |
| 14-Sep-2024 | 23:00 | 0.0            | ---       |
| 15-Sep-2024 | 00:00 | 0.0            | ---       |
| 15-Sep-2024 | 01:00 | 0.0            | WNW       |
| 15-Sep-2024 | 02:00 | 0.0            | ---       |
| 15-Sep-2024 | 03:00 | 0.0            | SW        |
| 15-Sep-2024 | 04:00 | 0.0            | ---       |
| 15-Sep-2024 | 05:00 | 0.0            | ---       |
| 15-Sep-2024 | 06:00 | 0.0            | ---       |
| 15-Sep-2024 | 07:00 | 0.0            | ---       |
| 15-Sep-2024 | 08:00 | 0.0            | SW        |
| 15-Sep-2024 | 09:00 | 0.0            | SW        |
| 15-Sep-2024 | 10:00 | 0.0            | SW        |
| 15-Sep-2024 | 11:00 | 0.0            | SW        |
| 15-Sep-2024 | 12:00 | 0.0            | WNW       |
| 15-Sep-2024 | 13:00 | 0.0            | W         |
| 15-Sep-2024 | 14:00 | 0.0            | E         |
| 15-Sep-2024 | 15:00 | 0.0            | WSW       |
| 15-Sep-2024 | 16:00 | 0.0            | WSW       |
| 15-Sep-2024 | 17:00 | 0.0            | ENE       |
| 15-Sep-2024 | 18:00 | 0.0            | NW        |
| 15-Sep-2024 | 19:00 | 0.0            | ---       |
| 15-Sep-2024 | 20:00 | 0.0            | ---       |
| 15-Sep-2024 | 21:00 | 0.0            | ---       |
| 15-Sep-2024 | 22:00 | 0.0            | ENE       |
| 15-Sep-2024 | 23:00 | 0.0            | N         |
| 16-Sep-2024 | 00:00 | 0.0            | ---       |
| 16-Sep-2024 | 01:00 | 0.0            | WNW       |
| 16-Sep-2024 | 02:00 | 0.0            | WNW       |
| 16-Sep-2024 | 03:00 | 0.4            | W         |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 16-Sep-2024 | 04:00 | 0.4            | W         |
| 16-Sep-2024 | 05:00 | 0.4            | W         |
| 16-Sep-2024 | 06:00 | 0.4            | WNW       |
| 16-Sep-2024 | 07:00 | 0.0            | WNW       |
| 16-Sep-2024 | 08:00 | 0.0            | W         |
| 16-Sep-2024 | 09:00 | 0.0            | W         |
| 16-Sep-2024 | 10:00 | 0.9            | W         |
| 16-Sep-2024 | 11:00 | 0.4            | W         |
| 16-Sep-2024 | 12:00 | 0.0            | W         |
| 16-Sep-2024 | 13:00 | 1.3            | W         |
| 16-Sep-2024 | 14:00 | 1.3            | W         |
| 16-Sep-2024 | 15:00 | 0.9            | W         |
| 16-Sep-2024 | 16:00 | 1.8            | W         |
| 16-Sep-2024 | 17:00 | 1.8            | W         |
| 16-Sep-2024 | 18:00 | 0.9            | W         |
| 16-Sep-2024 | 19:00 | 0.4            | W         |
| 16-Sep-2024 | 20:00 | 0.9            | W         |
| 16-Sep-2024 | 21:00 | 1.3            | W         |
| 16-Sep-2024 | 22:00 | 0.4            | W         |
| 16-Sep-2024 | 23:00 | 0.9            | W         |
| 17-Sep-2024 | 00:00 | 0.0            | W         |
| 17-Sep-2024 | 01:00 | 0.4            | W         |
| 17-Sep-2024 | 02:00 | 0.4            | W         |
| 17-Sep-2024 | 03:00 | 0.0            | W         |
| 17-Sep-2024 | 04:00 | 0.0            | WNW       |
| 17-Sep-2024 | 05:00 | 0.0            | WNW       |
| 17-Sep-2024 | 06:00 | 0.0            | ---       |
| 17-Sep-2024 | 07:00 | 0.0            | ---       |
| 17-Sep-2024 | 08:00 | 0.0            | WNW       |
| 17-Sep-2024 | 09:00 | 0.0            | WSW       |
| 17-Sep-2024 | 10:00 | 0.0            | SSW       |
| 17-Sep-2024 | 11:00 | 0.4            | SSW       |
| 17-Sep-2024 | 12:00 | 0.9            | W         |
| 17-Sep-2024 | 13:00 | 0.9            | W         |
| 17-Sep-2024 | 14:00 | 0.9            | W         |
| 17-Sep-2024 | 15:00 | 0.0            | W         |
| 17-Sep-2024 | 16:00 | 0.9            | W         |
| 17-Sep-2024 | 17:00 | 0.4            | W         |
| 17-Sep-2024 | 18:00 | 0.9            | W         |
| 17-Sep-2024 | 19:00 | 0.0            | W         |
| 17-Sep-2024 | 20:00 | 0.4            | W         |
| 17-Sep-2024 | 21:00 | 0.4            | W         |
| 17-Sep-2024 | 22:00 | 0.4            | W         |
| 17-Sep-2024 | 23:00 | 0.0            | SW        |
| 18-Sep-2024 | 00:00 | 0.0            | W         |
| 18-Sep-2024 | 01:00 | 0.0            | ---       |
| 18-Sep-2024 | 02:00 | 0.0            | ---       |
| 18-Sep-2024 | 03:00 | 0.0            | WNW       |
| 18-Sep-2024 | 04:00 | 0.0            | NW        |
| 18-Sep-2024 | 05:00 | 0.0            | ---       |
| 18-Sep-2024 | 06:00 | 0.0            | NNW       |
| 18-Sep-2024 | 07:00 | 0.0            | ---       |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 18-Sep-2024 | 08:00 | 0.0            | WNW       |
| 18-Sep-2024 | 09:00 | 0.0            | WNW       |
| 18-Sep-2024 | 10:00 | 0.9            | W         |
| 18-Sep-2024 | 11:00 | 0.9            | W         |
| 18-Sep-2024 | 12:00 | 0.4            | W         |
| 18-Sep-2024 | 13:00 | 0.9            | W         |
| 18-Sep-2024 | 14:00 | 1.3            | W         |
| 18-Sep-2024 | 15:00 | 1.3            | W         |
| 18-Sep-2024 | 16:00 | 0.9            | W         |
| 18-Sep-2024 | 17:00 | 1.3            | W         |
| 18-Sep-2024 | 18:00 | 1.3            | W         |
| 18-Sep-2024 | 19:00 | 0.9            | W         |
| 18-Sep-2024 | 20:00 | 1.3            | W         |
| 18-Sep-2024 | 21:00 | 0.9            | W         |
| 18-Sep-2024 | 22:00 | 1.3            | W         |
| 18-Sep-2024 | 23:00 | 2.2            | W         |
| 19-Sep-2024 | 00:00 | 0.4            | W         |
| 19-Sep-2024 | 01:00 | 2.2            | W         |
| 19-Sep-2024 | 02:00 | 0.9            | W         |
| 19-Sep-2024 | 03:00 | 0.4            | W         |
| 19-Sep-2024 | 04:00 | 1.3            | W         |
| 19-Sep-2024 | 05:00 | 1.3            | W         |
| 19-Sep-2024 | 06:00 | 0.4            | W         |
| 19-Sep-2024 | 07:00 | 0.4            | W         |
| 19-Sep-2024 | 08:00 | 0.9            | W         |
| 19-Sep-2024 | 09:00 | 1.3            | W         |
| 19-Sep-2024 | 10:00 | 1.3            | W         |
| 19-Sep-2024 | 11:00 | 1.3            | W         |
| 19-Sep-2024 | 12:00 | 0.9            | W         |
| 19-Sep-2024 | 13:00 | 0.4            | W         |
| 19-Sep-2024 | 14:00 | 0.4            | W         |
| 19-Sep-2024 | 15:00 | 0.9            | W         |
| 19-Sep-2024 | 16:00 | 0.9            | W         |
| 19-Sep-2024 | 17:00 | 1.3            | W         |
| 19-Sep-2024 | 18:00 | 0.4            | W         |
| 19-Sep-2024 | 19:00 | 0.4            | W         |
| 19-Sep-2024 | 20:00 | 0.0            | W         |
| 19-Sep-2024 | 21:00 | 0.4            | W         |
| 19-Sep-2024 | 22:00 | 0.0            | W         |
| 19-Sep-2024 | 23:00 | 0.0            | ---       |
| 20-Sep-2024 | 00:00 | 0.0            | WNW       |
| 20-Sep-2024 | 01:00 | 0.0            | ---       |
| 20-Sep-2024 | 02:00 | 0.0            | WNW       |
| 20-Sep-2024 | 03:00 | 0.0            | WNW       |
| 20-Sep-2024 | 04:00 | 0.0            | WNW       |
| 20-Sep-2024 | 05:00 | 0.0            | WNW       |
| 20-Sep-2024 | 06:00 | 0.0            | WNW       |
| 20-Sep-2024 | 07:00 | 0.0            | WNW       |
| 20-Sep-2024 | 08:00 | 0.0            | WNW       |
| 20-Sep-2024 | 09:00 | 0.4            | W         |
| 20-Sep-2024 | 10:00 | 0.0            | W         |
| 20-Sep-2024 | 11:00 | 0.4            | W         |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 20-Sep-2024 | 12:00 | 0.4            | W         |
| 20-Sep-2024 | 13:00 | 0.4            | NW        |
| 20-Sep-2024 | 14:00 | 0.0            | NW        |
| 20-Sep-2024 | 15:00 | 0.0            | W         |
| 20-Sep-2024 | 16:00 | 0.0            | E         |
| 20-Sep-2024 | 17:00 | 0.0            | E         |
| 20-Sep-2024 | 18:00 | 0.0            | N         |
| 20-Sep-2024 | 19:00 | 0.4            | W         |
| 20-Sep-2024 | 20:00 | 1.3            | W         |
| 20-Sep-2024 | 21:00 | 0.0            | W         |
| 20-Sep-2024 | 22:00 | 0.0            | NW        |
| 20-Sep-2024 | 23:00 | 0.0            | WNW       |
| 21-Sep-2024 | 00:00 | 0.0            | ---       |
| 21-Sep-2024 | 01:00 | 0.0            | NE        |
| 21-Sep-2024 | 02:00 | 0.0            | ---       |
| 21-Sep-2024 | 03:00 | 0.0            | ---       |
| 21-Sep-2024 | 04:00 | 0.0            | ---       |
| 21-Sep-2024 | 05:00 | 0.0            | ---       |
| 21-Sep-2024 | 06:00 | 0.0            | ---       |
| 21-Sep-2024 | 07:00 | 0.0            | ---       |
| 21-Sep-2024 | 08:00 | 0.0            | ---       |
| 21-Sep-2024 | 09:00 | 0.0            | ---       |
| 21-Sep-2024 | 10:00 | 0.0            | ---       |
| 21-Sep-2024 | 11:00 | 0.0            | N         |
| 21-Sep-2024 | 12:00 | 0.0            | ---       |
| 21-Sep-2024 | 13:00 | 0.0            | SSW       |
| 21-Sep-2024 | 14:00 | 2.2            | W         |
| 21-Sep-2024 | 15:00 | 2.2            | W         |
| 21-Sep-2024 | 16:00 | 1.8            | W         |
| 21-Sep-2024 | 17:00 | 1.8            | W         |
| 21-Sep-2024 | 18:00 | 0.4            | W         |
| 21-Sep-2024 | 19:00 | 0.9            | W         |
| 21-Sep-2024 | 20:00 | 0.4            | W         |
| 21-Sep-2024 | 21:00 | 0.4            | W         |
| 21-Sep-2024 | 22:00 | 0.4            | W         |
| 21-Sep-2024 | 23:00 | 0.0            | W         |
| 22-Sep-2024 | 00:00 | 0.0            | W         |
| 22-Sep-2024 | 01:00 | 0.0            | W         |
| 22-Sep-2024 | 02:00 | 0.0            | W         |
| 22-Sep-2024 | 03:00 | 0.0            | W         |
| 22-Sep-2024 | 04:00 | 0.0            | ---       |
| 22-Sep-2024 | 05:00 | 0.0            | ---       |
| 22-Sep-2024 | 06:00 | 0.0            | ---       |
| 22-Sep-2024 | 07:00 | 0.0            | ---       |
| 22-Sep-2024 | 08:00 | 0.0            | ---       |
| 22-Sep-2024 | 09:00 | 0.0            | W         |
| 22-Sep-2024 | 10:00 | 0.4            | W         |
| 22-Sep-2024 | 11:00 | 0.9            | W         |
| 22-Sep-2024 | 12:00 | 0.9            | W         |
| 22-Sep-2024 | 13:00 | 0.9            | SSW       |
| 22-Sep-2024 | 14:00 | 0.4            | WSW       |
| 22-Sep-2024 | 15:00 | 0.4            | W         |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 22-Sep-2024 | 16:00 | 0.0            | W         |
| 22-Sep-2024 | 17:00 | 0.4            | W         |
| 22-Sep-2024 | 18:00 | 0.4            | W         |
| 22-Sep-2024 | 19:00 | 0.4            | W         |
| 22-Sep-2024 | 20:00 | 0.4            | W         |
| 22-Sep-2024 | 21:00 | 0.4            | W         |
| 22-Sep-2024 | 22:00 | 0.9            | W         |
| 22-Sep-2024 | 23:00 | 0.9            | W         |
| 23-Sep-2024 | 00:00 | 0.9            | W         |
| 23-Sep-2024 | 01:00 | 0.9            | W         |
| 23-Sep-2024 | 02:00 | 0.4            | WSW       |
| 23-Sep-2024 | 03:00 | 0.4            | W         |
| 23-Sep-2024 | 04:00 | 0.9            | W         |
| 23-Sep-2024 | 05:00 | 0.4            | W         |
| 23-Sep-2024 | 06:00 | 0.4            | W         |
| 23-Sep-2024 | 07:00 | 0.4            | W         |
| 23-Sep-2024 | 08:00 | 0.9            | W         |
| 23-Sep-2024 | 09:00 | 0.4            | W         |
| 23-Sep-2024 | 10:00 | 0.4            | W         |
| 23-Sep-2024 | 11:00 | 0.4            | W         |
| 23-Sep-2024 | 12:00 | 0.0            | W         |
| 23-Sep-2024 | 13:00 | 0.0            | W         |
| 23-Sep-2024 | 14:00 | 0.4            | W         |
| 23-Sep-2024 | 15:00 | 0.0            | W         |
| 23-Sep-2024 | 16:00 | 0.0            | W         |
| 23-Sep-2024 | 17:00 | 0.0            | W         |
| 23-Sep-2024 | 18:00 | 0.0            | W         |
| 23-Sep-2024 | 19:00 | 0.0            | WSW       |
| 23-Sep-2024 | 20:00 | 0.0            | WSW       |
| 23-Sep-2024 | 21:00 | 0.0            | ---       |
| 23-Sep-2024 | 22:00 | 0.0            | WSW       |
| 23-Sep-2024 | 23:00 | 0.0            | WSW       |
| 24-Sep-2024 | 00:00 | 0.0            | WSW       |
| 24-Sep-2024 | 01:00 | 0.0            | WSW       |
| 24-Sep-2024 | 02:00 | 0.0            | NE        |
| 24-Sep-2024 | 03:00 | 0.0            | WNW       |
| 24-Sep-2024 | 04:00 | 0.4            | W         |
| 24-Sep-2024 | 05:00 | 0.0            | W         |
| 24-Sep-2024 | 06:00 | 0.0            | WSW       |
| 24-Sep-2024 | 07:00 | 0.0            | WSW       |
| 24-Sep-2024 | 08:00 | 0.0            | WSW       |
| 24-Sep-2024 | 09:00 | 0.0            | WSW       |
| 24-Sep-2024 | 10:00 | 0.0            | W         |
| 24-Sep-2024 | 11:00 | 0.0            | W         |
| 24-Sep-2024 | 12:00 | 0.0            | W         |
| 24-Sep-2024 | 13:00 | 0.0            | W         |
| 24-Sep-2024 | 14:00 | 0.0            | W         |
| 24-Sep-2024 | 15:00 | 0.0            | W         |
| 24-Sep-2024 | 16:00 | 0.0            | ---       |
| 24-Sep-2024 | 17:00 | 0.0            | W         |
| 24-Sep-2024 | 18:00 | 0.0            | W         |
| 24-Sep-2024 | 19:00 | 0.0            | W         |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 24-Sep-2024 | 20:00 | 0.0            | ---       |
| 24-Sep-2024 | 21:00 | 0.0            | W         |
| 24-Sep-2024 | 22:00 | 0.0            | ---       |
| 24-Sep-2024 | 23:00 | 0.0            | W         |
| 25-Sep-2024 | 00:00 | 0.0            | ---       |
| 25-Sep-2024 | 01:00 | 0.0            | W         |
| 25-Sep-2024 | 02:00 | 0.0            | W         |
| 25-Sep-2024 | 03:00 | 0.0            | W         |
| 25-Sep-2024 | 04:00 | 0.0            | W         |
| 25-Sep-2024 | 05:00 | 0.0            | W         |
| 25-Sep-2024 | 06:00 | 0.0            | W         |
| 25-Sep-2024 | 07:00 | 0.0            | W         |
| 25-Sep-2024 | 08:00 | 0.0            | W         |
| 25-Sep-2024 | 09:00 | 0.0            | W         |
| 25-Sep-2024 | 10:00 | 0.0            | ENE       |
| 25-Sep-2024 | 11:00 | 0.0            | E         |
| 25-Sep-2024 | 12:00 | 0.0            | E         |
| 25-Sep-2024 | 13:00 | 0.0            | E         |
| 25-Sep-2024 | 14:00 | 0.4            | E         |
| 25-Sep-2024 | 15:00 | 0.4            | ENE       |
| 25-Sep-2024 | 16:00 | 0.4            | ENE       |
| 25-Sep-2024 | 17:00 | 0.4            | ENE       |
| 25-Sep-2024 | 18:00 | 0.4            | E         |
| 25-Sep-2024 | 19:00 | 0.0            | ENE       |
| 25-Sep-2024 | 20:00 | 0.0            | ---       |
| 25-Sep-2024 | 21:00 | 0.0            | ---       |
| 25-Sep-2024 | 22:00 | 0.0            | ---       |
| 25-Sep-2024 | 23:00 | 0.0            | ---       |
| 26-Sep-2024 | 00:00 | 0.0            | ---       |
| 26-Sep-2024 | 01:00 | 0.0            | ---       |
| 26-Sep-2024 | 02:00 | 0.0            | ---       |
| 26-Sep-2024 | 03:00 | 0.0            | ---       |
| 26-Sep-2024 | 04:00 | 0.0            | ---       |
| 26-Sep-2024 | 05:00 | 0.0            | ---       |
| 26-Sep-2024 | 06:00 | 0.0            | ---       |
| 26-Sep-2024 | 07:00 | 0.0            | ---       |
| 26-Sep-2024 | 08:00 | 0.0            | ---       |
| 26-Sep-2024 | 09:00 | 0.0            | E         |
| 26-Sep-2024 | 10:00 | 0.4            | E         |
| 26-Sep-2024 | 11:00 | 0.4            | ENE       |
| 26-Sep-2024 | 12:00 | 0.9            | ENE       |
| 26-Sep-2024 | 13:00 | 0.4            | ENE       |
| 26-Sep-2024 | 14:00 | 0.9            | E         |
| 26-Sep-2024 | 15:00 | 0.4            | ENE       |
| 26-Sep-2024 | 16:00 | 0.9            | ENE       |
| 26-Sep-2024 | 17:00 | 0.4            | ENE       |
| 26-Sep-2024 | 18:00 | 0.0            | ENE       |
| 26-Sep-2024 | 19:00 | 0.0            | ENE       |
| 26-Sep-2024 | 20:00 | 0.0            | ENE       |
| 26-Sep-2024 | 21:00 | 0.0            | ---       |
| 26-Sep-2024 | 22:00 | 0.0            | ---       |
| 26-Sep-2024 | 23:00 | 0.0            | ---       |



## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 27-Sep-2024 | 00:00 | 0.0            | ENE       |
| 27-Sep-2024 | 01:00 | 0.0            | NE        |
| 27-Sep-2024 | 02:00 | 0.0            | ---       |
| 27-Sep-2024 | 03:00 | 0.0            | NE        |
| 27-Sep-2024 | 04:00 | 0.0            | ---       |
| 27-Sep-2024 | 05:00 | 0.0            | NE        |
| 27-Sep-2024 | 06:00 | 0.0            | ---       |
| 27-Sep-2024 | 07:00 | 0.0            | ---       |
| 27-Sep-2024 | 08:00 | 0.0            | ---       |
| 27-Sep-2024 | 09:00 | 0.0            | ENE       |
| 27-Sep-2024 | 10:00 | 0.4            | ENE       |
| 27-Sep-2024 | 11:00 | 0.4            | ENE       |
| 27-Sep-2024 | 12:00 | 0.4            | ENE       |
| 27-Sep-2024 | 13:00 | 0.4            | ENE       |
| 27-Sep-2024 | 14:00 | 0.9            | E         |
| 27-Sep-2024 | 15:00 | 0.4            | ENE       |
| 27-Sep-2024 | 16:00 | 0.9            | ENE       |
| 27-Sep-2024 | 17:00 | 0.4            | ENE       |
| 27-Sep-2024 | 18:00 | 0.4            | ENE       |
| 27-Sep-2024 | 19:00 | 0.0            | ENE       |
| 27-Sep-2024 | 20:00 | 0.0            | ENE       |
| 27-Sep-2024 | 21:00 | 0.0            | E         |
| 27-Sep-2024 | 22:00 | 0.0            | ---       |
| 27-Sep-2024 | 23:00 | 0.0            | ---       |
| 28-Sep-2024 | 00:00 | 0.0            | ---       |
| 28-Sep-2024 | 01:00 | 0.0            | ---       |
| 28-Sep-2024 | 02:00 | 0.0            | W         |
| 28-Sep-2024 | 03:00 | 0.0            | SW        |
| 28-Sep-2024 | 04:00 | 0.0            | E         |
| 28-Sep-2024 | 05:00 | 0.0            | ---       |
| 28-Sep-2024 | 06:00 | 0.0            | ---       |
| 28-Sep-2024 | 07:00 | 0.0            | ---       |
| 28-Sep-2024 | 08:00 | 0.0            | ---       |
| 28-Sep-2024 | 09:00 | 0.0            | ---       |
| 28-Sep-2024 | 10:00 | 0.0            | ---       |
| 28-Sep-2024 | 11:00 | 0.0            | ENE       |
| 28-Sep-2024 | 12:00 | 0.4            | NW        |
| 28-Sep-2024 | 13:00 | 0.4            | NW        |
| 28-Sep-2024 | 14:00 | 0.0            | NW        |
| 28-Sep-2024 | 15:00 | 0.9            | NW        |
| 28-Sep-2024 | 16:00 | 1.3            | W         |
| 28-Sep-2024 | 17:00 | 0.4            | W         |
| 28-Sep-2024 | 18:00 | 0.9            | W         |
| 28-Sep-2024 | 19:00 | 0.4            | W         |
| 28-Sep-2024 | 20:00 | 0.4            | W         |
| 28-Sep-2024 | 21:00 | 1.8            | W         |
| 28-Sep-2024 | 22:00 | 0.9            | W         |
| 28-Sep-2024 | 23:00 | 0.0            | W         |
| 29-Sep-2024 | 00:00 | 0.0            | W         |
| 29-Sep-2024 | 01:00 | 0.0            | W         |
| 29-Sep-2024 | 02:00 | 0.0            | ---       |
| 29-Sep-2024 | 03:00 | 0.0            | ---       |

## Appendix I - Wind Data

| Date        | Time  | Wind Speed m/s | Direction |
|-------------|-------|----------------|-----------|
| 29-Sep-2024 | 04:00 | 0.0            | ---       |
| 29-Sep-2024 | 05:00 | 0.0            | W         |
| 29-Sep-2024 | 06:00 | 0.0            | ---       |
| 29-Sep-2024 | 07:00 | 0.0            | ---       |
| 29-Sep-2024 | 08:00 | 0.0            | WNW       |
| 29-Sep-2024 | 09:00 | 0.0            | W         |
| 29-Sep-2024 | 10:00 | 0.0            | W         |
| 29-Sep-2024 | 11:00 | 0.0            | W         |
| 29-Sep-2024 | 12:00 | 0.0            | WSW       |
| 29-Sep-2024 | 13:00 | 0.0            | W         |
| 29-Sep-2024 | 14:00 | 0.0            | E         |
| 29-Sep-2024 | 15:00 | 0.4            | ENE       |
| 29-Sep-2024 | 16:00 | 0.4            | ENE       |
| 29-Sep-2024 | 17:00 | 0.0            | ENE       |
| 29-Sep-2024 | 18:00 | 0.0            | E         |
| 29-Sep-2024 | 19:00 | 0.0            | ENE       |
| 29-Sep-2024 | 20:00 | 0.0            | ---       |
| 29-Sep-2024 | 21:00 | 0.0            | ---       |
| 29-Sep-2024 | 22:00 | 0.0            | ---       |
| 29-Sep-2024 | 23:00 | 0.0            | ---       |
| 30-Sep-2024 | 00:00 | 0.0            | ---       |
| 30-Sep-2024 | 01:00 | 0.0            | ENE       |
| 30-Sep-2024 | 02:00 | 0.0            | ENE       |
| 30-Sep-2024 | 03:00 | 0.0            | NE        |
| 30-Sep-2024 | 04:00 | 0.0            | NE        |
| 30-Sep-2024 | 05:00 | 0.0            | ---       |
| 30-Sep-2024 | 06:00 | 0.0            | ---       |
| 30-Sep-2024 | 07:00 | 0.0            | ---       |
| 30-Sep-2024 | 08:00 | 0.0            | ---       |
| 30-Sep-2024 | 09:00 | 0.0            | NE        |
| 30-Sep-2024 | 10:00 | 0.0            | E         |
| 30-Sep-2024 | 11:00 | 0.0            | SW        |
| 30-Sep-2024 | 12:00 | 0.0            | SW        |
| 30-Sep-2024 | 13:00 | 0.0            | WSW       |
| 30-Sep-2024 | 14:00 | 0.0            | SW        |
| 30-Sep-2024 | 15:00 | 0.0            | SSW       |
| 30-Sep-2024 | 16:00 | 0.0            | E         |
| 30-Sep-2024 | 17:00 | 0.0            | WSW       |
| 30-Sep-2024 | 18:00 | 0.0            | ---       |
| 30-Sep-2024 | 19:00 | 0.0            | ---       |
| 30-Sep-2024 | 20:00 | 0.0            | WNW       |
| 30-Sep-2024 | 21:00 | 0.0            | ---       |
| 30-Sep-2024 | 22:00 | 0.0            | ---       |
| 30-Sep-2024 | 23:00 | 0.0            | ---       |

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**APPENDIX J**  
**EVENT ACTION PLANS**

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**Appendix J Event / Action Plan for Air Quality**

| EVENT   | ACTION   |  |   |  |
|---|--|--|---|--|
|   | ET   | IEC  | ER  | CONTRACTOR   |
| <b>ACTION LEVEL</b>                               |  |  |   |  |
| 1. Exceedance for one sample                      | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform IEC, ER and Contractor;</li> <li>3. Repeat measurement to confirm finding; and</li> <li>4. Increase monitoring frequency to daily.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Rectify any unacceptable practice and implement remedial measures; and</li> <li>3. Amend working methods agreed with ER if appropriate.</li> </ol>   |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform IEC, ER and Contractor;</li> <li>3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures;</li> <li>4. Repeat measurements to confirm findings;</li> <li>5. Increase monitoring frequency to daily;</li> <li>6. Discuss with IEC, ER and Contractor on remedial actions required;</li> <li>7. If exceedance continues, arrange meeting with IEC and ER; and</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>5. Supervise Implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor; and</li> <li>3. Supervise and ensure remedial measures properly implemented.</li> </ol> | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals; and</li> <li>4. Amend proposal if appropriate.</li> </ol> |

| EVENT  | ACTION   |  |   |  |
|--|--|--|---|--|
|  | ET   | IEC  | ER  | CONTRACTOR   |
| <b>LIMIT LEVEL</b>                               |  |  |   |  |
| 1.Exceedance for one sample                      | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Inform ER, Contractor, IEC and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>4. Advise the ER and ET on the effectiveness of the proposed remedial measures;</li> <li>5. Supervise implementation of remedial measures.</li> </ol>                                   | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor; and</li> <li>3. Supervise and ensure remedial measures properly implemented.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Take immediate action to avoid further exceedance;</li> <li>3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>4. Implement the agreed proposals; and</li> <li>5. Amend proposal if appropriate.</li> </ol>                     |
| 2.Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> <li>1. Notify IEC, ER, Contractor and EPD;</li> <li>2. Identify source;</li> <li>3. Repeat measurement to confirm findings;</li> <li>4. Increase monitoring frequency to daily;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> </ol> | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and</li> <li>5. Supervise the implementation</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise and ensure remedial measures properly implemented; and</li> <li>5. If exceedance continues, consider what portion of the work is responsible and instruct the</li> </ol> | <ol style="list-style-type: none"> <li>1. Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>2. Take immediate action to avoid further exceedance;</li> <li>3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>4. Implement the agreed proposals;</li> <li>5. Resubmit proposals if problem still not under control;</li> </ol> |

| EVENT | ACTION   |                       |   |   |
|-------|--|-----------------------|---|---|
|       | ET   | IEC                   | ER  | CONTRACTOR  |
|       | 8. If exceedance stops, cease additional monitoring. | of remedial measures. | Contractor to stop that portion of work until the exceedance is abated. | 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated. |

## Event / Action Plan for Construction Noise

| EVENT        | ACTION   |   |  |   |
|--------------|--|---|--|---|
|              | ET   | IEC   | ER   | CONTRACTOR  |
| Action Level | <ol style="list-style-type: none"> <li>1. Notify IEC, ER and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, ER and Contractor;</li> <li>4. Discuss with the Contractor and formulate remedial measures;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Review the analysed results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures are properly implemented</li> </ol>   | <ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC and ER;</li> <li>2. Implement noise mitigation proposals.</li> </ol>   |
| Limit Level  | <ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC, ER, EPD and Contractor;</li> <li>3. Repeat measurements to confirm findings;</li> <li>4. Increase monitoring frequency;</li> <li>5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>6. Inform IEC, ER and EPD the causes and actions taken for the exceedances;</li> <li>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>8. If exceedance stops, cease additional monitoring.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>3. Supervise the implementation of remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. Require Contractor to propose remedial measures for the analysed noise problem;</li> <li>4. Ensure remedial measures properly implemented;</li> <li>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.</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol> |



## Event and Action Plan for Water Quality

|  | <b>Action</b>  |   |   |   |
|--|--|---|---|---|
| <b>Event</b>   | <b>ET</b>  | <b>IEC</b>  | <b>ER</b>   | <b>Contractor</b>   |
| Action level being exceeded by one sampling day                      | <ol style="list-style-type: none"> <li>1. Inform IEC, Contractor and ER;</li> <li>2. Check monitoring data, all plant, equipment and Contractor's working methods; and</li> <li>3. Discuss remedial measures with IEC and Contractor and ER.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Discuss with ET, ER and Contractor on the implemented mitigation measures;</li> <li>2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with IEC, ET and Contractor on the implemented mitigation measures;</li> <li>2. Make agreement on the remedial measures to be implemented;</li> <li>3. Supervise the implementation of agreed remedial measures.</li> </ol>                                       | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment;</li> <li>5. Consider changes of working methods;</li> <li>6. Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and</li> <li>7. Implement the agreed mitigation measures.</li> </ol>   |
| Action level being exceeded by two or more consecutive sampling days | <ol style="list-style-type: none"> <li>1. Repeat in-situ measurement on next day of exceedance to confirm findings;</li> <li>2. Inform IEC, contractor and ER;</li> <li>3. Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>4. Discuss remedial measures with IEC, contractor and ER</li> <li>5. Ensure remedial measures are implemented</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> <li>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>2. Make agreement on the remedial measures to be implemented; and</li> <li>3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</li> </ol> | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> <li>3. Rectify unacceptable practice;</li> <li>4. Check all plant and equipment and consider changes of working methods;</li> <li>5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</li> <li>6. Implement the agreed mitigation measures.</li> </ol> |
| Limit level being exceeded by one sampling day                       | <ol style="list-style-type: none"> <li>1. Repeat measurement on next day of exceedance to confirm findings;</li> <li>2. Inform IEC, contractor and ER;</li> </ol>  | <ol style="list-style-type: none"> <li>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> </ol>   | <ol style="list-style-type: none"> <li>1. Discuss with ET, IEC and Contractor on the implemented remedial measures;</li> </ol>  | <ol style="list-style-type: none"> <li>1. Identify source(s) of impact;</li> <li>2. Inform the ER and confirm notification of the non-compliance in writing;</li> </ol>   |

|   | <b>Action</b>   |   |  |   |
|---|---|---|--|---|
| <b>Event</b>  | <b>ET</b>   | <b>IEC</b>  | <b>ER</b>  | <b>Contractor</b>   |
|   | 3. Rectify unacceptable practice;<br>4. Check monitoring data, all plant, equipment and Contractor's working methods;<br>5. Consider changes of working methods;<br>6. Discuss mitigation measures with IEC, ER and Contractor; and<br>7. Ensure the agreed remedial measures are implemented   | 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and<br>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.  | 2. Request Contractor to critically review the working methods;<br>3. Make agreement on the remedial measures to be implemented; and<br>4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.  | 3. Rectify unacceptable practice;<br>4. Check all plant and equipment and consider changes of working methods;<br>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<br>6. Implement the agreed remedial measures.   |
| Limit level being exceeded by two or more consecutive sampling days | 1. Inform IEC, contractor and ER;<br>2. Check monitoring data, all plant, equipment and Contractor's working methods;<br>3. Discuss mitigation measures with IEC, ER and Contractor; and<br>4. Ensure mitigation measures are implemented; and<br>5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days | 1. Discuss with ET, Contractor and ER on the implemented mitigation measures;<br>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and<br>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. | 1. Discuss with ET, IEC and Contractor on the implemented remedial measures;<br>2. Request Contractor to critically review the working methods;<br>3. Make agreement on the remedial measures to be implemented;<br>4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and<br>5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level. | 1. Identify source(s) of impact;<br>2. Inform the ER and confirm notification of the non-compliance in writing;<br>3. Rectify unacceptable practice;<br>4. Check all plant and equipment and consider changes of working methods;<br>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<br>6. Implement the agreed remedial measures.<br>7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level. |

## Event / Action Plan for Landscape and Visual during construction phase

| Event                          | Action   |  |  |  |
|--------------------------------|--|--|--|--|
|                                | ET   | IEC  | ER   | Contractor   |
| Non-conformity on one occasion | <ol style="list-style-type: none"> <li>1. Inform the Contractor, IEC and ER</li> <li>2. Discuss remedial actions with IEC, ER and Contractor</li> <li>3. Monitor remedial actions until rectification has been completed</li> </ol>  | <ol style="list-style-type: none"> <li>1. Check inspection report</li> <li>2. Check Contractor's working method</li> <li>3. Discuss with ET, ER and Contractor on possible remedial measures</li> <li>4. Advise ER on effectiveness of proposed remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of non-conformity in writing</li> <li>2. Review and agree on the remedial measures proposed by the Contractor</li> <li>3. Supervise implementation of remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Identify source and investigate the non-conformity</li> <li>2. Implement remedial measures</li> <li>3. Amend working methods agreed with ER as appropriate</li> <li>4. Rectify damage and undertake any necessary replacement</li> </ol>   |
| Repeated Non-conformity        | <ol style="list-style-type: none"> <li>1. Identify source(s)</li> <li>2. Inform Contractor, IEC and ER</li> <li>3. Discuss inspection frequency</li> <li>4. Discuss remedial actions with IEC, ER and Contractor</li> <li>5. Monitor remedial actions until rectification has been completed</li> <li>6. If non-conformity stops, cease additional monitoring</li> </ol> | <ol style="list-style-type: none"> <li>1. Check inspection report</li> <li>2. Check Contractor's working method</li> <li>3. Discuss with ET, ER and Contractor on possible remedial measures</li> <li>4. Advise ER on effectiveness of proposed remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Notify the Contractor</li> <li>2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>3. Supervise implementation of remedial measures</li> </ol>   | <ol style="list-style-type: none"> <li>1. Identify source and investigate the non-conformity</li> <li>2. Implement remedial measures</li> <li>3. Amend working methods agreed with ER as appropriate</li> <li>4. Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.</li> </ol> |

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Each step of actions required shall be implemented within 1 working day unless otherwise specified or agreed with EPD.

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**APPENDIX K  
SUMMARY OF EXCEEDANCE**

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**Appendix K 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 the Project |             |
|--------------------------|-----------|---------------------------------------|-------------|---|-------------|
|                          |           | Action Level                          | Limit Level | Action Level  | Limit Level |
| Air Quality              | 1-hr TSP  | 0                                     | 0           | 0   | 0           |
|                          | 24-hr TSP | 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 the Project |             |
|--------------------------|---------------------------------|---------------------------------------|-------------|---|-------------|
|                          |                                 | Action Level                          | Limit Level | Action Level  | Limit Level |
| Noise                    | L <sub>eq</sub> (30 min.) dB(A) | 0                                     | 0           | 0   | 0           |

**(C) Exceedance Report for Water Quality**

| Environmental Monitoring | Parameter             | No. of non-project related Exceedance |             | No. of Exceedance related to the Construction Activities of the Project |             |
|--------------------------|-----------------------|---------------------------------------|-------------|---|-------------|
|                          |                       | Action Level                          | Limit Level | Action Level  | Limit Level |
| Water Quality            | Dissolved Oxygen (DO) | 0                                     | 0           | 0   | 0           |
|                          | Turbidity             | 0                                     | 0           | 0   | 0           |
|                          | Suspended Solids (SS) | 0                                     | 0           | 0   | 0           |

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**APPENDIX L**  
**SITE AUDIT SUMMARY**

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**Contract No. YL/2020/01 - Development of Lok Ma Chau  
Loop: Main Works Package 1 – Contract 1 Site Formation  
and Infrastructure Works inside Lok Ma Chau Loop and  
Western Connection Road Phase 1**





**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                              |
|----------------------------|------------------------------|
| Checklist Reference Number | 240904                       |
| Date                       | 4 September 2024 (Wednesday) |
| Time                       | 14:00-15:15                  |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b><i>B. Air Quality</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>C. Noise</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>D. Water Quality</i></b>   |                  |
| 240904-R01 | • The stockpiles of sand / soil should be covered properly with tarpaulin sheet at WCR.  | D8               |
| 240904-R02 | • The muddy surface runoff should be properly collected at near Pond 10.   | D4               |
|            | <b><i>E. Waste / Chemical Management</i></b>   |                  |
| 240904-R03 | • The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.  | E10              |
| 240904-R04 | • The chemical spillage at meander bridge should be cleared as chemical wastes.  | E12              |
|            | <b><i>F. Land Contamination</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>G. Landscape and Visual</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>H. Ecology</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>I. Fisheries</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>J. Permits/Licences</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>K. Others</i></b>  |                  |
|            | Follow-up on previous audit section (Ref. No.: 240828), all identified environmental deficiencies were observed improved/ rectified by the Contractor. |                  |



|             | Name               | Signature  | Date             |
|-------------|--------------------|--|------------------|
| Recorded by | Ivy Tam            |  | 4 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 4 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                               |
|----------------------------|-------------------------------|
| Checklist Reference Number | 240911                        |
| Date                       | 11 September 2024 (Wednesday) |
| Time                       | 10:30-11:30                   |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
| -          | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <b>B. Air Quality</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>C. Noise</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>D. Water Quality</b>   |                  |
| 240911-F01 | • The stockpiles of sand / soil should be covered properly with tarpaulin sheet at WCR.                         | D8               |
| 240911-F02 | • The muddy surface runoff should be properly collected at near Pond 10.  | D4               |
| 240911-R01 | • The damage sand bag bund along the boundary of EA Zone should be replaced.                                    | D4               |
| 240911-R03 | • Wheel washing facilities should be provided at the site exit of Box C.  | D13i.            |
|            | <b>E. Waste / Chemical Management</b>   |                  |
| 240911-F03 | • The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.               | E10              |
| 240911-F04 | • The chemical spillage at meander bridge should be cleared as chemical wastes.                                 | E12              |
| 240911-R02 | • The rubbish accumulated near the EA Zone should be cleared.   | E1i. & iii.      |
|            | <b>F. Land Contamination</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>G. Landscape and Visual</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>H. Ecology</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>I. Fisheries</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>J. Permits/Licences</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>K. Others</b>  |                  |
|            | Follow-up on previous audit section (Ref. No.: 240904), follow-up action was required for all identified items. |                  |



|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 11 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 11 September 2024 |

## Weekly Site Inspection Record Summary

## Inspection Information

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 240916                     |
| Date                       | 16 September 2024 (Monday) |
| Time                       | 15:45-16:45                |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b>B. Air Quality</b>  |                  |
| 240916-R02 | • Dust suppression measures should be enhanced for the dusty access road to the site office.   | B1               |
|            |  |                  |
|            | <b>C. Noise</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            |  |                  |
|            | <b>D. Water Quality</b>  |                  |
| 240916-F01 | • The stockpiles of sand / soil should be covered properly with tarpaulin sheet at WCR.  | D8               |
| 240916-F02 | • The muddy surface runoff should be properly collected at near Pond 10.   | D4               |
| 240916-F05 | • The damage sand bag bund along the boundary of EA Zone should be replaced.   | D4               |
| 240916-F07 | • Wheel washing facilities should be provided at the site exit of Box C.   | D13i.            |
|            |  |                  |
|            | <b>E. Waste / Chemical Management</b>  |                  |
| 240916-F03 | • The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.  | E10              |
| 240916-F04 | • The chemical spillage at meander bridge should be cleared as chemical wastes.  | E12              |
| 240916-F06 | • The rubbish accumulated near the EA Zone should be cleared.  | E1i. & iii.      |
|            |  |                  |
|            | <b>F. Land Contamination</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            |  |                  |
|            | <b>G. Landscape and Visual</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            |  |                  |
|            | <b>H. Ecology</b>  |                  |
| 240916-R01 | • The green fences along the works area near the meander should be properly erected and maintained.  | H2               |
| 240916-R03 | • The reinstatement works next to the Pond 12 should be carried out in phasing so that the maximum length of green fences along the pond can be maintained before the works. | H2               |
|            |  |                  |
|            | <b>I. Fisheries</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            |  |                  |
|            | <b>J. Permits/Licences</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            |  |                  |
|            | <b>K. Others</b>   |                  |
|            | Follow-up on previous audit section (Ref. No.: 240911), follow-up action was required for all identified items.  |                  |



|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 16 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 16 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                               |
|----------------------------|-------------------------------|
| Checklist Reference Number | 240925                        |
| Date                       | 25 September 2024 (Wednesday) |
| Time                       | 14:00-15:30                   |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b><i>B. Air Quality</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>C. Noise</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>D. Water Quality</i></b>   |                  |
| 240925-F02 | • Wheel washing facilities should be provided at the site exit of Box C.   | D13i.            |
| 240925-O01 | • The bunding along the meander should be further enhanced to avoid any muddy surface runoff discharging out directly.   | D4               |
|            | <b><i>E. Waste / Chemical Management</i></b>   |                  |
| 240925-F01 | • The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.  | E10              |
|            | <b><i>F. Land Contamination</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>G. Landscape and Visual</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>H. Ecology</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>I. Fisheries</i></b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>J. Permits/Licences</i></b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b><i>K. Others</i></b>  |                  |
|            | Follow-up on previous audit section (Ref. No.: 240916), follow-up action was required for items 240916-F03 and 240916-F07 which were remarked as 240925-F01 and 240925-F02 respectively. |                  |

|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 25 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 25 September 2024 |

**Contract No. YL/2020/02 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 2 Western**

**Connection Road Phase 2, Connection Roads to Fanling /**

**San Tin Highway and Direct Road Link Phase 1**

**Service Contract No. WD/04/2020**

**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**



**Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 –  
Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway  
and Direct Road Link Phase 1**

**Weekly Site Inspection Record Summary**

Inspection Information

|                            |                              |
|----------------------------|------------------------------|
| Checklist Reference Number | 240904                       |
| Date                       | 4 September 2024 (Wednesday) |
| Time                       | 9:30-11:00                   |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b>B. Air Quality</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>C. Noise</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>D. Water Quality</b>  |                  |
| 240904-R02 | • The construction wastes which may block the water flow at the nullah should be cleared and not allowed.  | D8               |
|            | <b>E. Waste / Chemical Management</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>F. Land Contamination</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>G. Landscape and Visual</b>   |                  |
| 240904-R01 | • The construction materials at near the trees at RW6 should be cleared.   | G1               |
|            | <b>H. Ecology</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>I. Fisheries</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>J. Permits/Licences</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>K. Others</b>   |                  |
|            | • Follow-up on previous audit section (Ref. No.: 240828), all identified environmental deficiencies were observed improved/ rectified by the Contractor. |                  |

|             | Name               | Signature   | Date             |
|-------------|--------------------|---|------------------|
| Recorded by | Ivy Tam            |  | 4 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 4 September 2024 |

**Service Contract No. WD/04/2020**

**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**



**Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1**

**Weekly Site Inspection Record Summary**

Inspection Information

|                            |                               |
|----------------------------|-------------------------------|
| Checklist Reference Number | 240911                        |
| Date                       | 11 September 2024 (Wednesday) |
| Time                       | 14:00-15:30                   |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
| -          | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <b>B. Air Quality</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>C. Noise</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>D. Water Quality</b>   |                  |
| 240911-R01 | • The leaking water pipe at DRL-P07 should be repaired to avoid leakage and a clear notice should be displayed to remind the frontline staff that directly discharge of site runoff is not allowed. | D8               |
| 240911-R02 | • The damage concrete bund at DRL-P07 should be repaired for flood protection.  | D20              |
|            | <b>E. Waste / Chemical Management</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>F. Land Contamination</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>G. Landscape and Visual</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>H. Ecology</b>   |                  |
| 240911-R03 | • The green fence at DRL-P07 should be properly erected and maintained.   | H1               |
|            | <b>I. Fisheries</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>J. Permits/Licences</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>K. Others</b>  |                  |
|            | • Follow-up on previous audit section (Ref. No.: 240904), all identified environmental deficiencies were observed improved/ rectified by the Contractor.  |                  |

|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |   | 11 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 11 September 2024 |

**Service Contract No. WD/04/2020**

**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**



**Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1**

**Weekly Site Inspection Record Summary**

Inspection Information

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 240916                     |
| Date                       | 16 September 2024 (Monday) |
| Time                       | 9:40-10:40                 |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b>B. Air Quality</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>C. Noise</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>D. Water Quality</b>  |                  |
| 240916-R01 | • The concrete debris at the drainage channel at Fu Tai should be cleared.   | D8               |
| 240916-R02 | • The gap between the concrete structure should be sealed to avoid the muddy surface runoff discharging out to the nearby drainage channel directly (Fu Tai Site). | D4               |
|            | <b>E. Waste / Chemical Management</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>F. Land Contamination</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>G. Landscape and Visual</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>H. Ecology</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>I. Fisheries</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>J. Permits/Licences</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>K. Others</b>   |                  |
|            | • Follow-up on previous audit section (Ref. No.: 240911), all identified environmental deficiencies were observed improved/ rectified by the Contractor.           |                  |

|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |   | 16 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 16 September 2024 |



**Service Contract No. WD/04/2020**

**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**



**Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1**

**Weekly Site Inspection Record Summary**

Inspection Information

|                            |                               |
|----------------------------|-------------------------------|
| Checklist Reference Number | 240925                        |
| Date                       | 25 September 2024 (Wednesday) |
| Time                       | 9:30-11:15                    |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
| -          | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b>B. Air Quality</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>C. Noise</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>D. Water Quality</b>  |                  |
| 240925-R02 | • Sand bag bund should be deployed along the drainage channel to avoid the muddy surface runoff from getting into the drainage at near DRL-P02 & 03.     | D4               |
| 240925-R03 | • The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).                              | D14iv.           |
|            | <b>E. Waste / Chemical Management</b>  |                  |
| 240925-R01 | • The domestic wastes should be properly disposed on site at near DRL-P05.   | E1ii & iii       |
|            | <b>F. Land Contamination</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>G. Landscape and Visual</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>H. Ecology</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>I. Fisheries</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>J. Permits/Licences</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.   |                  |
|            | <b>K. Others</b>   |                  |
|            | • Follow-up on previous audit section (Ref. No.: 240916), all identified environmental deficiencies were observed improved/ rectified by the Contractor. |                  |

|             | Name               | Signature   | Date              |
|-------------|--------------------|---|-------------------|
| Recorded by | Ivy Tam            |  | 25 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 25 September 2024 |

**Contract No. YL/2021/01 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 3 Direct Road**



**Link Phase 2**

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                           |
|----------------------------|---------------------------|
| Checklist Reference Number | 240902                    |
| Date                       | 2 September 2024 (Monday) |
| Time                       | 14:00-15:00               |

| Ref. No. | Non-Compliance   | Related Item No. |
|----------|--|------------------|
| -        | None identified  | -                |
| Ref. No. | Remarks/Observations   | Related Item No. |
|          | <b>B. Air Quality</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>C. Noise</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>D. Water Quality</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>E. Waste / Chemical Management</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>F. Land Contamination</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>G. Landscape and Visual</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>H. Ecology</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>I. Fisheries</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>J. Permits/Licences</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.   |                  |
|          | <b>K. Others</b>   |                  |
|          | • Follow-up on previous audit section (Ref. No.:240826), all environmental deficiencies were improved/rectified by the Contractor. |                  |



|             | Name               | Signature  | Date             |
|-------------|--------------------|--|------------------|
| Recorded by | Ivy Tam            |  | 2 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 2 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                           |
|----------------------------|---------------------------|
| Checklist Reference Number | 240909                    |
| Date                       | 9 September 2024 (Monday) |
| Time                       | 14:00-15:00               |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
| -          | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <b>B. Air Quality</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>C. Noise</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>D. Water Quality</b>   |                  |
| 240909-R01 | • The exposed soil area near the ELS and site exit at Grip Line E should be paved to avoid muddy surface runoff.            | D9               |
|            | <b>E. Waste / Chemical Management</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>F. Land Contamination</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>G. Landscape and Visual</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>H. Ecology</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>I. Fisheries</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>J. Permits/Licences</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>K. Others</b>  |                  |
|            | • Follow-up on previous audit section (Ref. No.:240902), no environmental deficiency was identified during site inspection. |                  |



|             | Name               | Signature  | Date             |
|-------------|--------------------|--|------------------|
| Recorded by | Ivy Tam            |  | 9 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 9 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 240916                     |
| Date                       | 16 September 2024 (Monday) |
| Time                       | 11:00-11:45                |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
| -          | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <b>B. Air Quality</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>C. Noise</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>D. Water Quality</b>   |                  |
| 240916-R01 | • The bunding along the boundary of water-filled barriers at DDFB should be established.  | D4               |
|            | <b>E. Waste / Chemical Management</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>F. Land Contamination</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>G. Landscape and Visual</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>H. Ecology</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>I. Fisheries</b>   |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>J. Permits/Licences</b>  |                  |
|            | • No environmental deficiency was identified during site inspection.  |                  |
|            | <b>K. Others</b>  |                  |
|            | • Follow-up on previous audit section (Ref. No.:240909), all environmental deficiencies was improved/rectified by the Contractor. |                  |



|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 16 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 16 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 240923                     |
| Date                       | 23 September 2024 (Monday) |
| Time                       | 14:15-15:15                |

| Ref. No. | Non-Compliance  | Related Item No. |
|----------|---|------------------|
| -        | None identified   | -                |
| Ref. No. | Remarks/Observations  | Related Item No. |
|          | <b>B. Air Quality</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>C. Noise</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>D. Water Quality</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>E. Waste / Chemical Management</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>F. Land Contamination</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>G. Landscape and Visual</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>H. Ecology</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>I. Fisheries</b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>J. Permits/Licences</b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b>K. Others</b>  |                  |
|          | • Follow-up on previous audit section (Ref. No.:240916), all environmental deficiencies was improved/rectified by the Contractor. |                  |



|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 23 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 23 September 2024 |

**Weekly Site Inspection Record Summary**

**Inspection Information**

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 240930                     |
| Date                       | 30 September 2024 (Monday) |
| Time                       | 14:15-15:15                |

| Ref. No. | Non-Compliance  | Related Item No. |
|----------|---|------------------|
| -        | None identified   | -                |
| Ref. No. | Remarks/Observations  | Related Item No. |
|          | <b><i>B. Air Quality</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>C. Noise</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>D. Water Quality</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>E. Waste / Chemical Management</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>F. Land Contamination</i></b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>G. Landscape and Visual</i></b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>H. Ecology</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>I. Fisheries</i></b>  |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>J. Permits/Licences</i></b>   |                  |
|          | • No environmental deficiency was identified during site inspection.  |                  |
|          | <b><i>K. Others</i></b>   |                  |
|          | • Follow-up on previous audit section (Ref. No.:240923), no major environmental deficiency was identified during the site inspection. |                  |

|             | Name               | Signature  | Date              |
|-------------|--------------------|--|-------------------|
| Recorded by | Ivy Tam            |  | 30 September 2024 |
| Checked by  | Dr. Priscilla Choy |  | 30 September 2024 |

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**APPENDIX M  
ENVIRONMENTAL MITIGATION  
IMPLEMENTATION SCHEDULE (EMIS)**

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| fEIA Ref.                       | EM&A Log Ref           | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address   | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status |
|---------------------------------|------------------------|--|---|--------------------------------|--------------------------|---------------------------------|-----------------------|
| <b>Construction Dust Impact</b> |                        |  |   |                                |                          |                                 |                       |
| S3.8                            | D1-DP<br>1/DP2/<br>DP3 | 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 1.6 L/m <sup>2</sup> to achieve the respective dust removal efficiencies  | Minimize dust impact at the nearby sensitive receivers              | Contractor                     | All construction sites   | Construction stage              | *                     |
| S3.8                            | D2-DP<br>1/DP2/<br>DP3 | <p>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation</p> <ul style="list-style-type: none"> <li>• All vehicles shall be shut down in intermittent use</li> <li>• Only well-maintained plant should be operated on-site to avoid emission of dark smoke</li> <li>• Valid No-Road Mobile Machinery (NRMM) labels should be provided to regulated machines</li> </ul>   | Reduce air pollution emission from construction vehicles and plants | Contractor                     | All construction sites   | Construction stage              | ^<br>^<br>^           |
| S3.8                            | D2-DP<br>1/DP2/<br>DP3 | <ul style="list-style-type: none"> <li>• Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase</li> <li>• 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;</li> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty material do not leak from</li> </ul> | Minimize dust impact at the nearby sensitive receivers              | Contractor                     | All construction sites   | Construction stage              | ^<br>^<br>^<br>^<br>^ |



| fEIA Ref.                        | EM&A Log Ref       | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures                        | When to Implement the measures? | Implementation Status          |
|----------------------------------|--------------------|--|---|--------------------------------|---|---------------------------------|--------------------------------|
|                                  |                    | <p>impervious sheeting or placed in an area sheltered on the top and the 3 sides;</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>• 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</li> <li>• 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.</li> </ul> |   |                                |   |                                 | <p>N/A</p> <p>N/A</p> <p>^</p> |
| S3.8                             | D4-DP 1/DP2/ DP3   | Implement regular dust monitoring under EM&A programme during the construction stage.  | Monitoring of dust impact   | Contractor                     | Selected representative dust monitoring station | Construction stage              | ^                              |
| <b>Construction Noise Impact</b> |                    |  |   |                                |   |                                 |                                |
| S4.8                             | N-CP1-DP1/D P2/DP3 | <p>Implement the following good site management practices:</p> <ul style="list-style-type: none"> <li>• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>• 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;</li> <li>• Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction</li> </ul>  | Control construction airborne noise                               | Contractor                     | All construction sites                          | Construction stage              | <p>^</p> <p>^</p> <p>^</p>     |

| fEIA Ref. | EM&A Log Ref       | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                         | Who to implement the measures? | Location of the measures                           | When to Implement the measures? | Implementation Status   |
|-----------|--------------------|---|---|--------------------------------|--|---------------------------------|---|
|           |                    | <p>equipment should be properly fitted and maintained during the construction works;</p> <ul style="list-style-type: none"> <li>• Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>• Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul> |   |                                |  |                                 | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| S4.8      | N-CP2-DP1/D P2/DP3 | 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              | ^   |
| S4.8      | N-CP3-DP1/D P2/DP3 | Install movable noise barriers and full enclosure, 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              | ^   |
| S4.8      | N-CP4-DP1/D P2/DP3 | Use of "Quiet" Plant and Working Methods  | Reduce the noise levels of plant items  | Contractor                     | All construction sites where practicable           | Construction phase              | ^   |
| S4.8      | N-CP5-DP1/D P2/DP3 | 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              | ^   |
| S4.8      | N-CP6-DP2          | Setting the concrete lorry mixer at around 25m away from the existing NSRs along Ha Wan Tsuen Road and Lok Ma Chau Road   | Reduce the noise levels from concrete lorry mixer   | Contractor                     | Sections with NSRs along Ha Wan Tsuen Road and Lok | Construction phase              | ^   |

| fEIA Ref.  | EM&A Log Ref                    | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                               | Who to implement the measures? | Location of the measures                         | When to Implement the measures? | Implementation Status |
|--|---------------------------------|---|---|--------------------------------|--|---------------------------------|-----------------------|
|  |                                 |   |   |                                | Ma Chau Road                                     |                                 |                       |
| S4.8   | N-CP8-DP2                       | Provide temporary noise barrier during construction phase.  | Control airborne noise from construction access road traffic                                    | Contractor                     | Refer to Figure 4-8 of the EIA report            | Construction phase              | ^                     |
| S4.8   | N-CP7-DP2/N-CP6-D P1/N-C P6-DP3 | Implement a noise monitoring under EM&A programme.  | Monitor the construction noise levels at the selected representative locations                  | Contractor                     | Selected representative noise monitoring station | Construction phase              | ^                     |
| <b>Water Quality Impact (Construction Phase)</b> |                                 |   |   |                                |  |                                 |                       |
| S5.7   | W1-CP-DP1/D P2/DP3              | <p>Construction Runoff and Site Drainage</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, where appropriate, should include the following:</p> <ul style="list-style-type: none"> <li>Update and implementation of Stormwater Pollution Control Plan</li> <li>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.</li> </ul> | Minimize water quality impact from construction site runoff and general construction activities | Contractor                     | All construction sites where practicable         | Construction phase              | ^<br>*                |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status   |
|-----------|--------------|--|---|--------------------------------|--------------------------|---------------------------------|---|
|           |              | <ul style="list-style-type: none"> <li>• 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 8 m3 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 inputs from a variety of sources and suited to applications where the influent is pumped.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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</li> </ul> |   |                                |                          |                                 | <p style="text-align: center;">*</p> <p style="text-align: center;">*</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> |

| fEIA Ref. | EM&A<br>Log<br>Ref | Recommended Mitigation Measures  | Objectives of the<br>recommended<br>Measures & Main<br>Concerns to address | Who to<br>implement<br>the<br>measures? | Location of the<br>measures | When to<br>Implement the<br>measures? | Implementation<br>Status  |
|-----------|--------------------|--|--|---|-----------------------------|---------------------------------------|---|
|           |                    | <p>slope surfaces should be covered by tarpaulin or other means.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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 foundation excavations should be discharged into storm drains via silt removal facilities.</li> <li>• All open stockpiles of construction materials (for example, aggregates, sand and fill material) of 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.</li> <li>• 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.</li> <li>• 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.</li> </ul> |  |   |                             |                                       | <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |

| fEIA Ref. | EM&A<br>Log<br>Ref | Recommended Mitigation Measures   | Objectives of the<br>recommended<br>Measures & Main<br>Concerns to address | Who to<br>implement<br>the<br>measures? | Location of the<br>measures | When to<br>Implement the<br>measures? | Implementation<br>Status                     |
|-----------|--------------------|---|--|---|-----------------------------|---------------------------------------|--|
|           |                    | <ul style="list-style-type: none"> <li>• 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 wheelwash bay to prevent vehicle tracking of soil and silty water to public roads and drains.</li> <li>• 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.</li> <li>• Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.</li> <li>• 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.</li> <li>• 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</li> </ul> |  |   |                             |                                       | <p>#</p> <p>^</p> <p>*</p> <p>^</p> <p>^</p> |



| fEIA Ref. | EM&A Log Ref              | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures                 | When to Implement the measures? | Implementation Status                           |
|-----------|---------------------------|--|---|--------------------------------|--|---------------------------------|---|
|           |                           | sewage or wastewater into the meander, wetlands and fish ponds.  |   |                                |  |                                 |   |
| S5.7      | W3-CP<br>-DP1/D<br>P2/DP3 | <u>Groundwater from Contaminated Area</u> <ul style="list-style-type: none"> <li>• No mitigation measure is required for groundwater treatment in LMC Loop.</li> <li>• Additional investigation is required to identify if contaminated groundwater is found.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> </ul> | Minimize groundwater quality impact from contaminated area        | Contractor                     | Areas where contamination is found.      | Construction phase              | N/A<br><br>N/A<br><br>N/A<br><br>N/A<br><br>N/A |
| S5.7      | W3-CP<br>-DP1/D<br>P2/DP3 | <u>Sewage from Workforce</u> <ul style="list-style-type: none"> <li>• Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate</li> </ul>   | Minimize water quality from sewage effluent                       | Contractor                     | All construction sites where practicable | Construction phase              | ^   |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address    | Who to implement the measures? | Location of the measures         | When to Implement the measures? | Implementation Status |
|-----------|--------------|---|--|--------------------------------|----------------------------------|---------------------------------|-----------------------|
|           |              | <p>portable toilets to cater 0.15m<sup>3</sup>/day/employed populations and be responsible for appropriate disposal and maintenance.</p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul> |  |                                |                                  |                                 | <p>^</p> <p>^</p>     |
| S5.7      | W4-CP -DP1   | <p><u>Riverbanks Formation</u></p> <ul style="list-style-type: none"> <li>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 within a cofferdam or diaphragm wall.</li> <li>Water quality of the Shenzhen River and the meander would be monitored to ensure effectiveness of the implemented mitigation measures.</li> </ul>  | Minimize water quality impact from riverbank works                   | Contractor                     | Riverbank works                  | Construction Phase              | <p>^</p> <p>^</p>     |
| S5.7      | W1-CP -BR    | <p><u>Bio-remediation in Shenzhen River</u></p> <ul style="list-style-type: none"> <li>Water quality monitoring and audit is recommended to ensure that the proposed bio-remediation operation would not result in adverse water quality impact. Details of the water quality monitoring programme are presented in the EM&amp;A Manual. If unacceptable water quality impact in the receiving water is recorded, additional measures such as slowing down, or rescheduling of works should be</li> </ul>   | Minimize water quality impact from bio-remediation of Shenzhen River | Contractor                     | Shenzhen River where practicable | Construction phase              | N/A                   |

| fEIA Ref. | EM&A Log Ref          | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address  | Who to implement the measures? | Location of the measures                                 | When to Implement the measures? | Implementation Status     |
|-----------|-----------------------|--|--|--------------------------------|--|---------------------------------|---------------------------|
|           |                       | implemented as necessary.  |  |                                |  |                                 |                           |
| S5.7      | W4-CP<br>-DP3         | <p><u>Construction of Viaduct across Reedbed in LMC Station</u></p> <p>As a precautionary measures, three options are recommended to ensure the compliance of No Net Increase in Pollution Load in Deep Bay for further consideration. They include:</p> <ul style="list-style-type: none"> <li>• On-site compensate the same area of the occupied reedbed;</li> <li>• Provide pilot plant during construction; or</li> <li>• Increase the hydraulic retention time of the proposed Loop STW.</li> </ul> <p>Details of these measures will be subject to further liaison with MTRC and a separate VEP application.</p>   | Minimize water quality impact from of viaduct on reedbed           | Contractor                     | Construction sites across reedbed in LMC Station         | Construction phase              | N/A                       |
| S5.7      | W5-CP<br>-DP2/D<br>P3 | <p><u>Construction of Bridge Crossing</u></p> <ul style="list-style-type: none"> <li>• Good site management as stipulated in ProPECC PN1/94 should be fully implemented to avoid polluted liquid or solid wastes from falling into the WSRs.</li> <li>• All the fishponds will be drained and no fishpond will be affected by bridge crossing.</li> <li>• In the meander, cofferdam or diaphragm walls should be deployed for protecting fish ponds or nearby rivers during bridge pier construction and or road widening work at fishponds.</li> <li>• For the low level viaducts crossing the small streams at Ma Tso Lung, Ping Hang and channel near Lung Hau Road, precast structures will be used such that there will be no construction work in the water streams, and thus, to avoid direct water quality impacts.</li> </ul> | Minimize water quality impact from construction of bridge crossing | Contractor                     | Construction sites for bridge crossing where practicable | Construction phase              | N/A<br><br>N/A<br><br>N/A |



| fEIA Ref. | EM&A Log Ref            | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status   |
|-----------|-------------------------|--|---|--------------------------------|--------------------------|---------------------------------|---|
|           |                         | <p>good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</p> <ul style="list-style-type: none"> <li>• Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;</li> <li>• Provision of sufficient waste disposal points and regular collection for disposal;</li> <li>• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>• Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </ul> |   |                                |                          |                                 | <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| S7.6      | WM4-D<br>P1/DP2<br>/DP3 | <p><u>Storage of Waste</u></p> <p>The following recommendation should be implemented to minimize the impacts:</p> <ul style="list-style-type: none"> <li>• Waste such as soil should be handled and stored well to ensure secure containment;</li> <li>• Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away;</li> <li>• Different locations should be designated to stockpile each material to enhance reuse;</li> </ul>  | Minimize waste generation during construction                     | Contractor                     | All construction sites   | Construction phase              | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>                                      |
| S7.6      | WM5-D<br>P1/DP2<br>/DP3 | <p><u>Collection and Transportation of Waste</u></p> <p>The following recommendation should be implemented to minimize the impacts:</p> <ul style="list-style-type: none"> <li>• Remove waste in timely manner;</li> <li>• Employ the trucks with cover or enclosed containers for waste transportation;</li> </ul>  | Minimize waste impact from storage                                | Contractor                     | All construction sites   | Construction phase              | <p style="text-align: center;">*</p> <p style="text-align: center;">^</p>   |

| fEIA Ref. | EM&A Log Ref            | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures     | When to Implement the measures? | Implementation Status   |
|-----------|-------------------------|---|---|--------------------------------|------------------------------|---------------------------------|---|
|           |                         | <ul style="list-style-type: none"> <li>Obtain relevant waste disposal permits from the appropriate authorities; and</li> <li>Disposal of waste should be done at licensed waste disposal facilities.</li> </ul>   |   |                                |                              |                                 | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p>   |
| S7.6      | WM6-D<br>P1/DP2<br>/DP3 | <p><u>Excavated and C&amp;D Material</u></p> <p>Wherever practicable, C&amp;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&amp;D materials:</p> <ul style="list-style-type: none"> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified.</li> </ul> <p>The recommended C&amp;D materials handling should include:</p> <ul style="list-style-type: none"> <li>On-site Sorting of C&amp;D Materials</li> <li>Reuse of C&amp;D Materials</li> <li>Use of Standard Formwork and Planning of Construction Materials Purchasing</li> <li>Provision of Wheel Wash Facilities</li> </ul> <p>Details refer to Section 7.6.1.4 of the EIA report.</p> | Minimize waste impacts from excavated and C&D material            | Contractor                     | All construction sites       | Construction phase              | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |
| S7.6      | WM7-D<br>P1/DP2         | <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</p>   | Remediate contaminated soil                                       | Contractor                     | All construction sites where | Construction phase              | N/A   |

| fEIA Ref. | EM&A Log Ref            | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address                  | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status |
|-----------|-------------------------|--|--|--------------------------------|--------------------------|---------------------------------|-----------------------|
|           | /DP3                    | minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.   |  |                                | applicable               |                                 |                       |
| S7.6      | WM8-D<br>P1/DP2<br>/DP3 | <p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> <li>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 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.</li> </ul> | Control the chemical waste and ensure proper storage, handling and disposal        | Contractor                     | All construction sites   | Construction phase              | *                     |
| S7.6      | WM9-D<br>P1/DP2<br>/DP3 | <p><u>General Waste</u></p> <ul style="list-style-type: none"> <li>General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</li> <li>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.</li> <li>A reputable waste collector should be employed to remove</li> </ul>   | Minimize production of the general refuse and avoid odour, pest and litter impacts | Contractor                     | All construction sites   | Construction phase              | ^<br><br>^<br><br>^   |

| fEIA Ref. | EM&A Log Ref  | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status                           |
|-----------|---------------|--|---|--------------------------------|--------------------------|---------------------------------|---|
|           |               | general refuse on a daily basis.   |   |                                |                          |                                 |   |
| S7.6      | WM10-DP1/D P2 | <u>Sewage</u> <ul style="list-style-type: none"> <li>• The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities.</li> <li>• Regularly collection by licensed collectors should be arranged to minimize potential environmental impacts.</li> </ul>   | Minimize production of sewage impacts                             | Contractor                     | All construction sites   | Construction phase              | ^<br><br>^                                      |
| S7.6      | WM11-DP2      | <u>Sediment</u><br>The following mitigation measures are recommended during transportation and stockpiling: <ul style="list-style-type: none"> <li>• stockpiling area(s) must be properly designed and closed to the dredging locations as far as possible;</li> <li>• Stockpiling area(s) should be lined with impermeable sheeting and bunded;</li> <li>• stockpiles should be properly covered by impermeable sheeting;</li> <li>• vehicles delivering the sediments should be covered, and truck bodies and tailgates should be sealed to prevent any discharge during transportation;</li> <li>• bulk earth moving equipments should be utilized as much as possible to minimize workers' handling and contact of the excavated materials; and</li> <li>• personal protective clothing should be provided to site workers.</li> </ul> | Minimize waste impacts from sediment                              | Contractor                     | All construction sites   | Construction phase              | N/A<br><br>N/A<br><br>N/A<br><br>N/A<br><br>N/A |



| fEIA Ref.                 | EM&A Log Ref            | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                                   | Who to implement the measures? | Location of the measures    | When to Implement the measures?  | Implementation Status |
|---------------------------|-------------------------|---|---|--------------------------------|-----------------------------|--|-----------------------|
|                           |                         | In case contamination of excavated materials is confirmed after testing, the mitigation measures described in Land Contamination Impacts section should also be implemented to minimize potential environmental impacts.  |   |                                |                             |  |                       |
| <b>Land Contamination</b> |                         |   |   |                                |                             |  |                       |
| S8.7                      | LC1-D<br>P2/DP3         | <u>Remediation of arsenic-contaminated soil</u> <ul style="list-style-type: none"> <li>“Solidification/Stabilization” (S/S) treatment method was proposed for the remediation of arsenic-contaminated 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. Off-site disposal or reuse of the solidified material is not allowed.</li> </ul> | To remediate arsenic-contaminated soil  | Project Proponent/ Contractor  | LMC Loop, contaminated area | Prior to commencement of construction works within the contaminated area | N/A                   |
| S8.7                      | LC1-D<br>P1/DP2<br>/DP3 | <u>Excavation and Transportation</u> <ul style="list-style-type: none"> <li>Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;</li> <li>In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;</li> </ul>   | To minimise the potential environmental impacts arising from the handling of contaminated materials | Contractor                     | Contaminated area           |  | N/A<br><br>N/A        |

| fEIA Ref. | EM&A Log Ref            | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                                   | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status   |
|-----------|-------------------------|---|---|--------------------------------|--------------------------|---------------------------------|---|
|           |                         | <ul style="list-style-type: none"> <li>• Excavation should be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils;</li> <li>• 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 contaminated soil to minimize contaminated runoff;</li> <li>• Supply of suitable clean backfill material after excavation, if required;</li> <li>• Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated run-off, and truck bodies and tailgates should be sealed to prevent any discharge during transport or during wet season;</li> <li>• Speed control for the trucks carrying contaminated materials should be enforced; and</li> <li>• Vehicle wheel washing facilities at the site's exit points should be established and used.</li> </ul> |   |                                |                          |                                 | <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> |
| S8.7      | LC3-D<br>P1/DP2<br>/DP3 | <p><u>Solidification/Stabilization</u></p> <ul style="list-style-type: none"> <li>• The loading, unloading, handling, transfer or storage of cement should be carried out in an enclosed system;</li> <li>• Mixing process and other associated material handling</li> </ul>  | To minimize the potential environmental impacts arising from the handling of contaminated materials | Contractor                     | Contaminated area        | The course of remediation       | <p>N/A</p> <p>N/A</p>   |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address              | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status   |
|-----------|--------------|--|--|--------------------------------|--------------------------|---------------------------------|---|
|           |              | <p>activities should be properly scheduled to minimise potential noise impact and dust emission;</p> <ul style="list-style-type: none"> <li>• The mixing facilities should be sited as far apart as practicable from the nearby noise sensitive receivers;</li> <li>• Mixing of contaminated soil and cement / water / other additive(s) should be undertaken at a solidification plant to minimise the potential for leaching;</li> <li>• Runoff from the solidification / stabilization area should be prevented by constructing a concrete bund along the perimeter of the solidification / stabilization area;</li> <li>• The run-off contained in the concrete bund area along the perimeter of the paved solidification / stabilization area, if any, will be collected, stored and used for the mixing process of cement / contaminated soil;</li> <li>• If stockpile of treated soil is required, the stockpiling site(s) should be lined with impermeable sheeting and bunded.</li> <li>• Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or site run-off during rainy season; and If necessary, there should be clear and separated areas for stockpiling of untreated and treated materials.</li> </ul> |  |                                |                          |                                 | <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> |
| S8.7      | LC4-D P3     | <p><u>Safety Measures</u></p> <ul style="list-style-type: none"> <li>• Set up a list of safety measures for site workers;</li> <li>• Provide written information and training on safety for site</li> </ul>  | To minimize the potential adverse effects on health and safety of construction | Contractor                     | Contaminated area        | The course of remediation       | N/A   |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address  | Who to implement the measures?                | Location of the measures   | When to Implement the measures? | Implementation Status |
|-----------|--------------|---|--|---|--|---------------------------------|-----------------------|
|           |              | <p>workers;</p> <ul style="list-style-type: none"> <li>• Keep a log-book and plan showing the contaminated zones and clean zones;</li> <li>• Maintain a hygienic working environment;</li> <li>• Avoid dust generation;</li> <li>• Provide face and respiratory protection gear to site workers if necessary;</li> <li>• Provide personal protective clothing (e.g. chemical resistant jackboot, liquid tight gloves) to site workers, if necessary;</li> <li>• Provide first aid training and materials to site worker;</li> <li>• Bulk earth moving equipment should be utilized as much as possible to minimize workers' handling and contact of the contaminated materials; and</li> <li>• Eating, drinking and smoking should not be allowed in contaminated areas to avoid inadvertent ingestion of contaminant.</li> </ul> | workers  |   |  |                                 |                       |
| S8.8      | LC5-D P3     | <u>Re-appraisal on the entire contamination assessment area for associated infrastructure in the adjacent areas in Hong Kong outside LMC Loop.</u>  | Ensure any potential contamination activities from land use changes after the approval of this land contamination assessment study | Project Proponent /Detailed design consultant | Entire contamination assessment area for associated infrastructure in the adjacent | After land resumption           | ^                     |

| fEIA Ref.   | EM&A Log Ref   | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures?         | Location of the measures            | When to Implement the measures?        | Implementation Status |
|---|----------------|--|---|--|-------------------------------------|--|-----------------------|
|   |                |  |   |  | areas in Hong Kong outside LMC Loop |  |                       |
| <b>Landscape and Visual Impact (Construction Phase)</b> |                |  |   |  |                                     |  |                       |
| S11.5.4 Table11.5 .9                                    | L-CP1-DP1/D P3 | <p><u>Preservation and Protection of Existing Trees (Good Site Practice)</u></p> <ul style="list-style-type: none"> <li>The proposed works should avoid disturbance to the existing trees within and close to the works areas. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design phase for further retention of individual trees.</li> <li>It is recommended that a full detailed tree survey and felling application will be undertaken and submitted for approval by the relevant government departments in accordance with ETWB TCW No. 3/2006, 'Tree Preservation'. This will be conducted during the detailed design phase of the project and submitted to DLO for approval. The methodology and scope including the programme for the tree survey and felling application are also subject to the approval of the relevant authorities.</li> <li>Trees which are not in conflict with the proposals would be retained and shall be protected by means of fencing during construction phase to prevent damage to tree canopies</li> </ul> | Avoid disturbance and protection of existing trees                | Detailed design consultant/ Contractor | Within project site                 | Detailed design and construction phase | *<br><br>^<br><br>^   |

| fEIA Ref.            | EM&A Log Ref       | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures                | When to Implement the measures? | Implementation Status |
|----------------------|--------------------|--|---|--------------------------------|---|---------------------------------|-----------------------|
|                      |                    | <p>and root zones from vehicles and storage of materials.</p> <ul style="list-style-type: none"> <li>Specifications for the protection of existing trees will be provided during the preparation of the detailed tree survey by Detailed Design consultants at detailed design and construction phase.</li> </ul>  |   |                                |   |                                 | ^                     |
| S11.5.4 Table 11.5.9 | L-CP2-DP1/D P2/DP3 | <p><u>Works Area and Temporary Works Areas (Good Site Practice)</u></p> <ul style="list-style-type: none"> <li>The construction sequence and construction programme shall be optimized in order to minimize the duration of impact.</li> <li>Construction site controls shall be enforced including the storage of materials, the location and appearance of site accommodation and site storage; and the careful design of site lighting to prevent light spillage.</li> <li>The temporary works areas shall be restored to its original condition or enhanced through the introduction of new amenity areas or planting areas following the completion of the construction phase.</li> </ul> | Minimize landscape impacts  | Contractor                     | The whole project area where applicable | Construction phase              | ^<br><br>^<br><br>^   |
|                      | L-CP3-DP1/D P2/DP3 | <p><u>Advance Implementation of Mitigation Planting</u></p> <ul style="list-style-type: none"> <li>Replanting of existing / disturbed vegetation shall be undertaken at the earliest possible stage of the construction phase of the project using predominantly native plant species although ornamental species may be used for roadside planting and amenity areas.</li> </ul>  | Minimize landscape impacts  | Contractor                     | The whole project area where applicable | Construction phase              | ^                     |
|                      | L-CP4-             | <u>Transplantation of Existing Trees</u>   | Minimize landscape  | Contractor                     | The whole                               | Construction                    |                       |



| fEIA Ref. | EM&A Log Ref       | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures?          | Location of the measures                | When to Implement the measures? | Implementation Status |
|-----------|--------------------|--|---|---|---|---------------------------------|-----------------------|
|           |                    | <p>The reinstatement shall be undertaken at the earliest possible stage during the construction phase of the project.</p> <ul style="list-style-type: none"> <li>Creation of 12.78ha of Ecological Area (EA) containing reed marsh and marsh will be created at the southern portion of the LMC Loop, and a 50m width landscape buffer area will be set up in between the EA and the development area. Wetland creation concepts please refer to Figure 11.9zf and Chapter 12 Ecology Impact Assessment of this EIA.</li> <li>Native tree and shrub mix will be utilised for the creation of landscape buffer along northern edge of EA to support the creation of avifauna habitat from ecologist perspectives as well as enhance the aesthetic and landscape diversity within the LMC Loop Development.</li> <li>Creation of minimum 11.72 Ha. of permanent compensatory off-site wetland areas at Sam Po Shue and Hoo Hok Wai. For the potential locations for off-site wetlands please refer to Figure 11.9zf and 11.9zh, Chapter 2 Project Description and Chapter 12 Ecology Impact Assessment of this EIA.</li> </ul> |   | design consultant/ Contractor/ Operator | applicable                              | phases                          | ^                     |
|           | V-CP5-DP1/D P2/DP3 | <p><u>Coordination with Concurrent Projects</u></p> <ul style="list-style-type: none"> <li>Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance.</li> </ul>   | Minimize landscape impacts  | Contractor                              | The whole project area where applicable | Construction phase              | ^                     |



| fEIA Ref.            | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures?          | Location of the measures                | When to Implement the measures?        | Implementation Status        |
|----------------------|--------------|---|---|---|---|--|------------------------------|
| S11.6.5 Table 11.6.3 | V-CP1-DP3    | <p><u>Preservation and Protection of Existing Trees (Good Site Practice)</u></p> <ul style="list-style-type: none"> <li>The proposed works should avoid disturbance to the existing trees within and close to the works areas. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design phase for further retention of individual trees.</li> <li>The preservation of existing tree shall provide instant greening and screening effect for proposed works.</li> </ul>   | Minimise visual impact  | Detailed design consultant / Contractor | The whole project area where applicable | Detailed design and construction phase | ^                            |
|                      | V-CP2-DP3    | <p><u>Works Area and Temporary Works Areas (Good Site Practice)</u></p> <ul style="list-style-type: none"> <li>The construction sequence and construction programme shall be optimized in order to minimize the duration of impact.</li> <li>Construction site controls shall be enforced including the storage of materials, the location and appearance of site accommodation and site storage; and the careful design of site lighting to prevent light spillage.</li> <li>Hoarding designed with recessive colour shall be set up around the construction site providing screening effect for the construction works.</li> <li>The site office or temporary above-ground structures shall be sited at less visual prominent locations.</li> </ul> | Minimise visual impact  | Contractor                              | The whole project area where applicable | Construction phase                     | ^<br><br>^<br><br>^<br><br>^ |

| fEIA Ref.                           | EM&A Log Ref | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address             | Who to implement the measures?          | Location of the measures                | When to Implement the measures?         | Implementation Status              |
|-------------------------------------|--------------|--|---|---|---|---|------------------------------------|
|                                     |              |  |   |   |   |   |                                    |
|                                     | V-CP3-DP3    | <u>Advance Implementation of Mitigation Planting</u> <ul style="list-style-type: none"> <li>Replanting of existing / disturbed vegetation shall be undertaken at the earliest possible stage of the construction phase of the project using predominantly native plant species although ornamental species may be used for roadside planting and amenity areas.</li> </ul>   | Minimise visual impact and advance mitigation planting for screening purpose. | Detailed design consultant / Contractor | The whole project area where applicable | Detailed design and construction phases | N/A                                |
|                                     | V-CP5-DP3    | <u>Coordination with Concurrent Projects</u> <ul style="list-style-type: none"> <li>Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance.</li> </ul>  | Minimize visual impacts   | Contractor                              | The whole project area where applicable | Construction phase                      | ^                                  |
| <b>Ecology (Construction Phase)</b> |              |  |   |   |   |   |                                    |
| S12.7                               | E1-DP1       | <u>Disturbance to Fish Ponds at HHW</u> <ul style="list-style-type: none"> <li>Development set back a minimum of 23m from the edge Meander.</li> <li>Management of fish pond habitat to enhance ecological value to twice existing value, in order to compensate for disturbance to large waterbirds.</li> <li>Creation and establishment will occur prior to commencement of substantive works associated with any element of the project for which fish pond compensation is required.</li> </ul> <u>Construction phase</u> <ul style="list-style-type: none"> <li>Erection of a 3m high, dull green site boundary fence to</li> </ul> | On the disturbance to fish ponds at HHW                                       | Detailed design consultant/ Contractor  | Fish ponds at HHW and LMC               | Detailed design, construction phase     | N/A<br><br>N/A<br><br>N/A<br><br>* |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                               | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status                        |
|-----------|--------------|---|---|--------------------------------|--------------------------|---------------------------------|--|
|           |              | minimise disturbance to wetland habitats caused by human activity in LMC Loop.  |   |                                |                          |                                 |  |
| S12.7     | E2-DP1 /DP3  | <p><u>Construction run-off</u></p> <ul style="list-style-type: none"> <li>Temporary sewerage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby water bodies;</li> <li>Proper locations well away from nearby water bodies will be used for temporary storage of materials (i.e. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works;</li> <li>To prevent muddy water entering nearby water bodies, work sites close to nearby water bodies will be isolated, using such items as sandbags or silt curtains with lead edge at bottom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the work site;</li> <li>If temporary access along a riverbed is unavoidable, this will be kept to the minimum in width and length. Temporary river crossings will be supported on stilts above the river bed;</li> <li>Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby water</li> </ul> | Minimise the indirect impact from the increasing suspended solids and pollutants in LMC Meander | Contractor                     | Seawall,                 | During construction             | <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> |



| fEIA Ref. | EM&A Log Ref     | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address                           | Who to implement the measures?                               | Location of the measures              | When to Implement the measures?                    | Implementation Status |
|-----------|------------------|---|---|--|---------------------------------------|--|-----------------------|
| S12.7     | E3-DP1 /DP2/D P3 | <p><u>Pollutant Runoff to Downstream areas from Accidental Spillage</u></p> <ul style="list-style-type: none"> <li>Prepare an emergency contingency plan The plan will include, but not be limited to, the following: <ul style="list-style-type: none"> <li>- Potential emergency situations;</li> <li>- Chemicals or hazardous materials used on-site (and their location);</li> <li>- Emergency response team;</li> <li>- Emergency response procedures;</li> <li>- List of emergency telephone hotlines;</li> <li>- Locations and types of emergency response equipment;</li> <li>- Training plan and testing for effectiveness.</li> </ul> </li> </ul>   | Minimize indirect impact from pollutant runoff to downstream areas from accidental spillage | Contractor/ Operator   | Area within project site near streams | Construction phase and operation phase             | ^                     |
| S12.7     | E4-DP1 /DP2/D P3 | <ul style="list-style-type: none"> <li>Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project.</li> <li>Design of buildings should not incorporate use of night-time lighting at or near top of buildings, highly reflective materials should not be used where vegetation is adjacent and glass surfaces should not be angled upwards in a way that reflects the sky. Unnecessary lighting should be eliminated. Appropriate glass and façade treatments should be used where required to minimise impact. Unnecessary lighting should be avoided.</li> </ul> <p>These include the following:</p> <ul style="list-style-type: none"> <li>Fritting, or the placement of ceramic lines or dots on glass,</li> </ul> | Minimize the mortality impacts on birds   | Developer / Detailed design consultant/ contractor/ operator | Area within project site              | Detailed design, construction and operation phases | ^<br><br>^<br><br>^   |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status   |
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|           |              | <p>has little effect on the human-perceived transparency of the window but creates a visual barrier to birds outside. This treatment also has the advantage of reducing 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.</p> <ul style="list-style-type: none"> <li>• Angled glass may be used only for smaller panes in buildings with a limited amount of glass.</li> <li>• The use of glass that reflects UV light (primarily visible to birds, but not to humans) acts to reduce collision.</li> <li>• 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.</li> <li>• 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.</li> </ul> <p>In terms of reducing night-time mortality impacts, eliminating unnecessary lighting is one of the easiest methods, and has the added advantage of saving energy and expense. Potential impacts of nocturnal avian collision with buildings should be minimised by not creating sky glow from the use of night-time lighting at or near the top of buildings or other structures. In</p> |   |                                |                          |                                 | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |

| fEIA Ref. | EM&A Log Ref     | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures?         | Location of the measures             | When to Implement the measures?     | Implementation Status   |
|-----------|------------------|---|---|--|--------------------------------------|-------------------------------------|---|
|           |                  | <p>addition to avoiding uplighting, light spillage should be minimised, while green and blue lights should be used where possible. As far as possible, lights should be controlled by motion sensors, and building operations should be managed in such a way as reduce or eliminate night lighting near windows. The potential advantages of removing unnecessary lighting in terms of reducing the carbon footprint of the LMC Loop development are obvious.</p>  |   |  |                                      |                                     |   |
| S12.7     | E5-DP1 /DP2/D P3 | <ul style="list-style-type: none"> <li>• Minimize loss of natural vegetation along LMC Meander, and suitable replacement planting with possible installation of otter holts and the provision of potential feeding area and spraint locations for otters in the stabilized bank subject to detailed design.</li> <li>• No significant change to velocity of water flow, water level or water quality.</li> <li>• No direct lighting on Meander.</li> <li>• 3m high, dull green site boundary fence for all developments associated with the project.</li> <li>• Pre-construction surveys for otter holts or natal dens will be conducted in LMC Loop before the commencement of construction works. Work in the area of any otter holt found to cease pending examination by experienced Ecologist. If in use for breeding, works in the area will temporarily stop until end of breeding activity.</li> <li>• No construction activities within 100m of LMC Meander between one hour prior to sunset and one hour after</li> </ul> | Minimize impacts on Eurasian Otter                                | Detailed design consultant/ Contractor | Construction site within the project | Detailed design, construction phase | <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">*</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> |







| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address     | Who to implement the measures?                                     | Location of the measures                               | When to Implement the measures?                               | Implementation Status |
|-----------|--------------|--|---|--|--|---|-----------------------|
|           |              |  |   | Detailed design consultant / Contractor /                          |  | construction phases   |                       |
| S12.7     | E16-DP 1     | <ul style="list-style-type: none"> <li>Provision of compensatory reed marsh in the Ecological Area will provide habitat suitable for Common Evening Hawker.</li> <li>Measures designed to protect other fauna and water quality will generally benefit odonata.</li> </ul> | Protect Odonata   | Project Proponent/ Detailed design consultant/ Contractor Operator | Ecological area  | EA established prior to construction and manage at all phases | ^<br>^                |
| S12.7     | E14-DP 2     | <ul style="list-style-type: none"> <li>Replacement planting of native tree species relevant to Deep Bay area and the area impacted. Planting to occur in tandem with that required for woodland loss arising</li> </ul>  | Minimize the ecological impacts                                       | Contractor   | Woodland and shrubland habitat along Ha Wan Tsuen Road | Construction phase  | ^                     |
| S12.7     | E15-DP 2     | <ul style="list-style-type: none"> <li>Use noise/visual barriers to minimise disturbance.</li> <li>Construction activities should not be carried out before 0900h or after 1700h in order to minimise disturbance to the flight line corridor (and to mammals).</li> </ul> | Minimize impacts on flight line corridor from Western Connection Road | Contractor   | Construction site from Western Connection Road         | Construction phase  | ^<br>^                |
| S12.7     | E16-DP 2     | <ul style="list-style-type: none"> <li>Use of opaque visual/noise barriers and roadside planting of trees and shrubs to minimize disturbance impacts.</li> </ul>   | Minimize impacts on flight line corridor from Western Connection      | Project Proponent/ Detailed  | Construction site from Western                         | Detailed design, construction and operation                   | ^                     |

| fEIA Ref.                             | EM&A Log Ref | Recommended Mitigation Measures  | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures?   | Location of the measures | When to Implement the measures?       | Implementation Status    |
|---------------------------------------|--------------|--|---|--|--------------------------|---------------------------------------|--------------------------|
|                                       |              |  | Road  | design consultant/<br>Contractor<br>Operator                                       | Connection Road          | phases                                |                          |
| S12.9                                 | EG2-D<br>P3  | All generic mitigation measures proposed in Tables 12.82a and 12.82b in the EIA report.  | Avoid, minimize and mitigate overall ecological impact.           | Project proponent / contractor / detailed design consultant / developer / operator | All areas.               | All phases                            | ^                        |
| <b>Fisheries (Construction Phase)</b> |              |  |   |  |                          |                                       |                          |
| S13.7                                 | F4-          | <ul style="list-style-type: none"> <li>• Re-provision of replacement Artificial Reefs (of the same volume as the existing ARs inside Marine Exclusion Zone)</li> </ul>   | Mitigate water quality impacts on the existing ARs                | Project proponent  | To be determined         | Construction phase or operation phase | N/A                      |
| S11.7                                 | F2           | <ul style="list-style-type: none"> <li>• Reduce re-suspension of sediments</li> <li>• Limit dredging and works fronts.</li> <li>• Good site practices</li> <li>• Strict enforcement of no marine dumping</li> <li>• Spill response plan</li> </ul> | Minimise marine water quality impacts                             | Contractor   | Seawall                  | During construction                   | N/A<br>N/A<br>N/A<br>N/A |
| S13.7                                 | F4-DP3       | During the construction phase, a layer of sheet pile wall will be  | Bund stability  | Contractor   | Fish ponds               | Construction                          | N/A                      |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status |
|-----------|--------------|---|---|--------------------------------|--------------------------|---------------------------------|-----------------------|
|           |              | erected along the site boundary adjacent to fish ponds after commencement of site works. The sheet pile wall will be constructed by silent piling method (Press-in method) which induces minimal vibration. Therefore the stability of the fish pond bund will not be influenced by the construction of the sheet pile wall, subsequent construction works and the loading from the road during operational phase. In addition, the sheet pile wall will have grouting or a grout curtain to avoid water seepage from the fish pond to the excavation area. With these measures, significant impacts are not anticipated. |   |                                |                          | phase                           |                       |
| S13.7     | F5-DP3       | Temporary traffic arrangements will be instigated to maintain or provide alternative access to fish ponds during construction phase.  | Prevent Blockage of Access Roads to Fish Ponds                    | Contractor                     | Fish ponds               | Construction phase              | ^                     |
| S13.7     | F6-DP3       | Standard mitigation measures to control site runoff and other pollutants caused by construction activities and good site practices will be implemented during the construction phase of the Project. Excavated material and other inert construction wastes produced will be transferred to proper recipients (i.e. landfill) (see Waste Management Section). Sewage from the proposed development will be dealt with via a sewerage system and will not be discharged directly to surrounding water bodies.  | Avoid water quality impact  | Contractor                     | Fish ponds               | Construction phase              | ^                     |
| S13.7     | F7-DP3       | <p><u>Dust Minimization</u></p> <ul style="list-style-type: none"> <li>• During all excavation works, good site practice should be adopted to minimize impacts on fisheries. The below site practices should be adopted during this time.</li> <li>• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with</li> </ul>  | Dust minimization   | Contractor                     | Fish ponds               | Construction phase              | ^                     |

| fEIA Ref. | EM&A<br>Log<br>Ref | Recommended Mitigation Measures  | Objectives of the<br>recommended<br>Measures & Main<br>Concerns to address | Who to<br>implement<br>the<br>measures? | Location of the<br>measures | When to<br>Implement the<br>measures? | Implementation<br>Status |
|-----------|--------------------|--|--|---|-----------------------------|---------------------------------------|--------------------------|
|           |                    | <p>water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</p> <ul style="list-style-type: none"> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• 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;</li> <li>• Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;</li> <li>• In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;</li> <li>• Supply of suitable clean backfill material after excavation, if required;</li> <li>• Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or contaminated run-off, and truck bodies and tailgates should</li> </ul> |  |   |                             |                                       |                          |

| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures?     | Implementation Status |
|-----------|--------------|---|---|--------------------------------|--------------------------|-------------------------------------|-----------------------|
|           |              | <p>be sealed to prevent any discharge during transport or during wet season;</p> <ul style="list-style-type: none"> <li>• Speed control for the trucks carrying contaminated materials should be enforced; and</li> <li>• Vehicle wheel washing facilities at the site's exit points should be established and used.</li> </ul>   |   |                                |                          |                                     |                       |
| S13.7     | F8-DP3       | <p><u>Contingency plan</u></p> <p>The contractor should prepare an emergency contingency plan for actions to be taken if significant impacts, such as accidental spillage of chemicals, water seepage from fish ponds, damaged/destabilized pond bunds, pond water contamination by site runoff, on fish ponds occur. The contractor should submit the emergency contingency plan dealing with, but not limited to, the aforementioned potential impacts to the engineer for review, comment and approval. The fish pond operators will also be consulted for the details of the contingency plan, which will also be submitted to AFCD for review and comment. The plan should include, but not limited to, the following:</p> <ul style="list-style-type: none"> <li>• Potential emergency situations;</li> <li>• Chemicals or hazardous materials used on-site (and their location);</li> <li>• Emergency response team;</li> <li>• Emergency response procedures;</li> <li>• List of emergency telephone hotlines;</li> <li>• Locations and types of emergency response equipment;</li> <li>• Training plan and testing for effectiveness.</li> </ul> | Deal with any accidental spillage event                           | Contractor / Operator          | Fish ponds               | Construction and operational phases | ^                     |

| fEIA Ref.                               | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures      | When to Implement the measures? | Implementation Status |
|---|--------------|---|---|--------------------------------|-------------------------------|---------------------------------|-----------------------|
| <b>Food Safety (Construction Phase)</b> |              |   |   |                                |                               |                                 |                       |
| S15                                     | F1-DP3       | <p><u>Contingency plan</u></p> <p>The contractor should have effective communication with Food and Environmental Hygiene Department (FEHD) / Centre of Food Safety (CFS), on food surveillance and food incidents. Food Surveillance Programme (<a href="http://www.cfs.gov.hk/english/programme/programme_fs/programme_fs.html">http://www.cfs.gov.hk/english/programme/programme_fs/programme_fs.html</a>). is undertaken by CFS to inspect food safety in Hong Kong, with a three-tier surveillance strategy (consisting of routine food surveillance, targeted food surveillance and seasonal food surveillance). Under this programme, aquatic products (including pond fish) at import, wholesale and retail levels are sampled for microbiological (i.e. bacteria and viruses), chemical (i.e. natural toxins, food additives and contaminants) and radiation testings. All food safety surveillance results of by a monthly "Food Safety Report" in press releases and also presented in CFS website. If pond fish samples do not comply with food safety standards and they are verified to be from fish ponds of concerned under this study through "food tracing", fish selling shall be stopped as instructed by CFS.</p> | Minimize significant impacts on fish ponds                        | Contractor                     | Fish pond within project site | Construction phase              | N/A                   |
| S15                                     | F2-DP3       | <p><u>Dust Minimization</u></p> <ul style="list-style-type: none"> <li>During all excavation works, good site practice should be adopted to minimize the release of TSP, impact of land contamination and the associated food safety implications. The below site practices should be adopted during excavation works.</li> <li>Any excavated or stockpile of dusty material should be</li> </ul>   | Dust minimization   | Contractor                     | Fish pond within project site | Construction phase              | ^                     |

| fEIA Ref. | EM&A<br>Log<br>Ref | Recommended Mitigation Measures  | Objectives of the<br>recommended<br>Measures & Main<br>Concerns to address | Who to<br>implement<br>the<br>measures? | Location of the<br>measures | When to<br>Implement the<br>measures? | Implementation<br>Status |
|-----------|--------------------|--|--|---|-----------------------------|---------------------------------------|--------------------------|
|           |                    | <p>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;</p> <ul style="list-style-type: none"> <li>• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>• 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;</li> <li>• Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety;</li> <li>• In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means;</li> <li>• Supply of suitable clean backfill material after excavation, if required;</li> <li>• Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or</li> </ul> |  |   |                             |                                       |                          |





| fEIA Ref. | EM&A Log Ref | Recommended Mitigation Measures   | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | Implementation Status |
|-----------|--------------|---|---|--------------------------------|--------------------------|---------------------------------|-----------------------|
|           |              | <p>contaminated run-off, and truck bodies and tailgates should be sealed to prevent any discharge during transport or during wet season;</p> <ul style="list-style-type: none"> <li>• Speed control for the trucks carrying contaminated materials should be enforced; and</li> <li>• Vehicle wheel washing facilities at the site's exit points should be established and used.</li> </ul> |   |                                |                          |                                 |                       |

- Remarks: ^ Compliance of mitigation measure
- \* Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage as no such site activities were conducted in the reporting period (e.g. concrete batching plan, barging point, seawall dredging and filling, bored piling, landscaping works etc)

**Contract No. YL/2020/01 - Development of Lok Ma Chau  
Loop: Main Works Package 1 – Contract 1 Site Formation  
and Infrastructure Works inside Lok Ma Chau Loop and  
Western Connection Road Phase 1**



**Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul> |   |



**Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>• A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;</li> <li>• 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;</li> </ul> |   |

**Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>• 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;</li> <li>• 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;</li> </ul> |   |

**Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 Proactive Environmental Protection Proforma**



Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

- 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.



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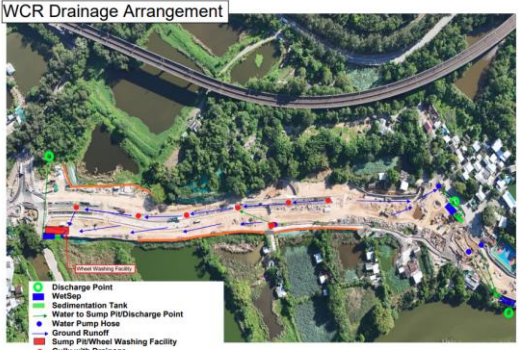

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S4.8 | All site<br>area               | Noise impact                 | <ul style="list-style-type: none"> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>All generator used onsite are Quality Powered Mechanical Equipment (QPME) registered with EPD.</li> <li>Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.</li> </ul> | <br> |



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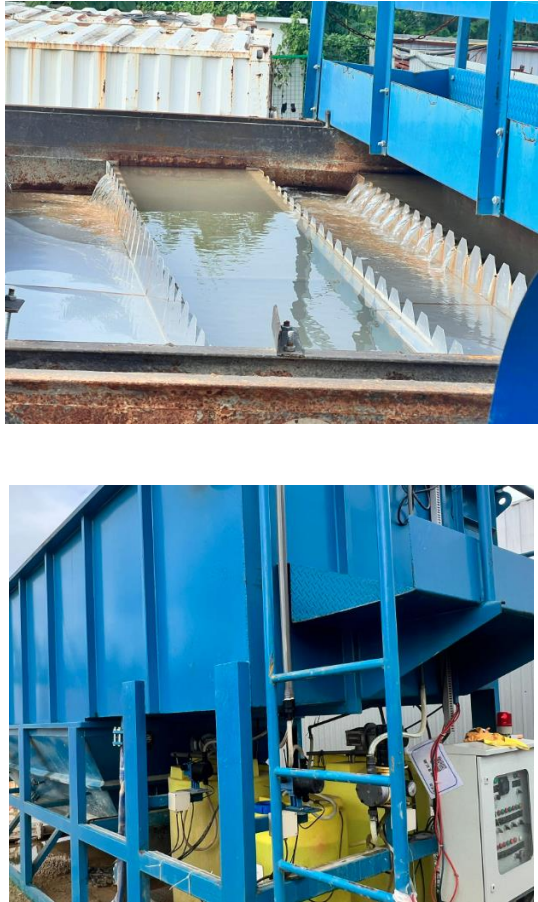
Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S5.7 | All site area                  | Water Pollution Control      | <ul style="list-style-type: none"> <li>Update and implementation of Stormwater Pollution Control Plan.</li> <li>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.</li> </ul> |  <p>WCR Drainage Arrangement</p> <ul style="list-style-type: none"> <li>Discharge Point</li> <li>Wet-Dep</li> <li>Sedimentation Tank</li> <li>Water to Sump Pit/Discharge Point</li> <li>Water Pump Hose</li> <li>Ground Runoff</li> <li>Sump Pit/Wheel Washing Facility</li> <li>Gully with Drainage</li> <li>Sand Bag Bund</li> <li>Cut-off Drain</li> </ul>  |





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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-----|--------------------------------|------------------------------|---|--|
|     |                                |                              | <ul style="list-style-type: none"> <li>• 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.</li> </ul> <p>Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m<sup>3</sup> 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 inputs from a variety of sources and suited to applications where the influent is pumped.</p> |  |


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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures  | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|--|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>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.</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater 0.15m<sup>3</sup>/day/employed populations and be responsible for appropriate disposal and maintenance.</li> </ul> | <br> |


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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|---|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>• 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.</li> </ul> |  |


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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-------------|--------------------------------|------------------------------|---|---|
| EIA<br>S7.6 | All site<br>area               | Waste Generation             | <ul style="list-style-type: none"> <li>• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <br/> <li>• Proper storage and site practices to minimize the potential for damage and contamination of construction materials;</li> </ul> |  |

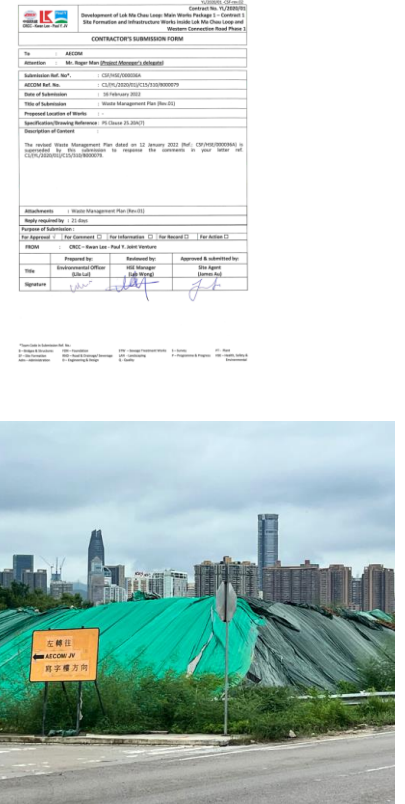
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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|---|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>• Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul> |  |

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| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures  | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|--|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>• Prepare Waste Management Plan and submit to the Engineer for approval</li> <li>• Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling</li> </ul> |  <p>The image shows a 'CONTRACTOR'S SUBMISSION FORM' for a Waste Management Plan (WMP) and a photograph of a construction site. The form is titled 'CONTRACTOR'S SUBMISSION FORM' and includes fields for 'To: AECOM', 'Submitted by: Mr. Roger Wan (Project Manager)' (Wan), 'Submission Ref. No.: CQ/16/000006', 'AECOM Ref. No.: CQ/16/000006/01', 'Date of Submission: 28 September 2023', 'Title of Submission: Waste Management Plan (WMP)', and 'Project Location of Work: Western Connection Road Phase 1'. It also includes a 'Description of Content' section and a table for 'Approval' with columns for 'Prepared by', 'Reviewed by', and 'Approved &amp; Submitted by'. The photograph shows a large pile of excavated inert materials covered in green tarp at a construction site, with a sign in the foreground that reads '左轉 左轉 左轉' and 'AECOM JV'.</p> |




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| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|---|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>• General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</li> </ul> |  |

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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-----|--------------------------------|------------------------------|---|---|
|     |                                |                              | <ul style="list-style-type: none"> <li>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 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.</li> </ul> |  |




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Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

| Ref                      | Location/<br>Working<br>Period  | Anticipated<br>Major Impacts | Recommended Mitigation Measures  | Photo Records (Partial)   |
|--------------------------|---|------------------------------|--|---|
| EIA<br>12.7<br>EP<br>2.7 | <p>Constructi<br/>on site<br/>within the<br/>project</p> <p>Pond<br/>habitat<br/>along<br/>alignment<br/>(mainly<br/>Ha Wan<br/>Tsuen<br/>Road)</p> | Ecology                      | <p>Installing 3m high olive-green fence around construction areas to allow<br/>or deter different animal passages where appropriate;</p> <p>Carrying out outside dry-season (from November to February next year),<br/>the construction works associated with the site formation in the Ecological<br/>Area, stabilization of the bank of the old Shenzhen River meander, to<br/>minimise disturbances to migratory birds/water birds;</p> |  |

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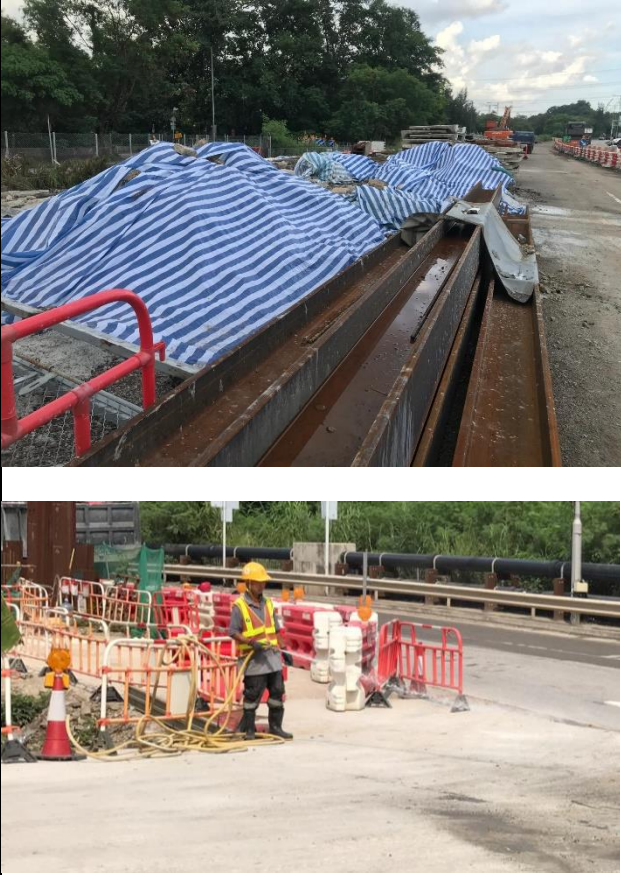
| Ref | Location/<br>Working<br>Period  | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-----|---|------------------------------|---|---|
|     | Old Shenzhen River meander and other identified important ecologically sensitive areas, |                              | Using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any; |  <p>根據環境許可證EP-477/2013/B 規定,非限制時段的工作時間:<br/> <span style="color: green;">■</span> 上午9時-下午5時<br/> <span style="color: orange;">■</span> 上午7時-下午7時*</p> <p>噪音許可證<br/>GW-RN0642-24<br/>的分區: 區域 1-2</p> <p>噪音許可證<br/>GW-RN0857-24<br/>的分區: 區域 1-7</p> <p>根據環境許可證 EP-477/2013/B 規定,非限制時段的工作時間:<br/> <span style="color: green;">■</span> 上午9時-下午5時<br/> <span style="color: orange;">■</span> 上午7時-下午7時*</p> |

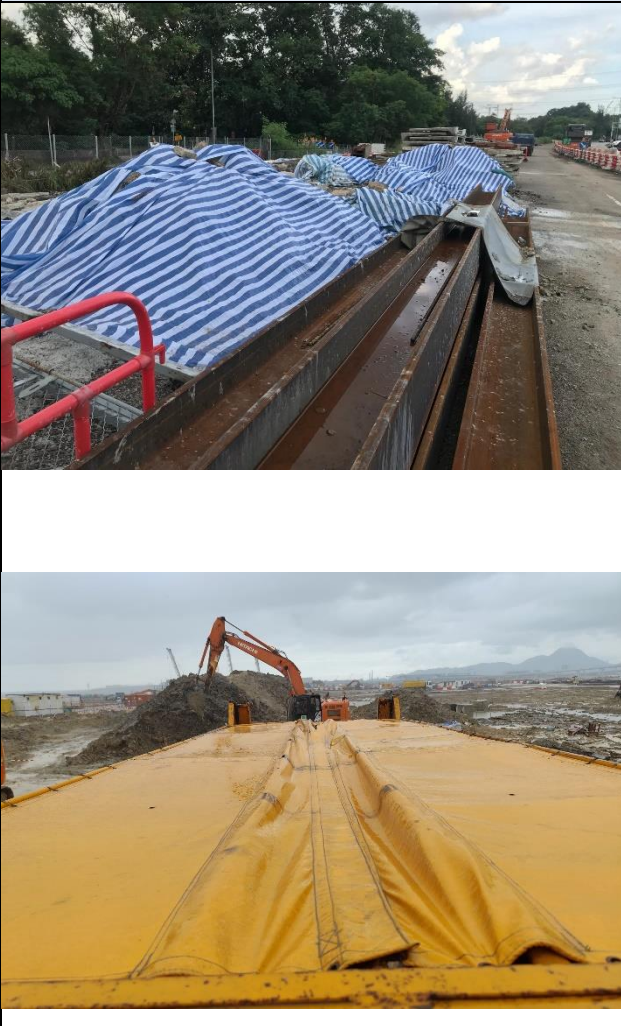
**Contract No. YL/2020/02 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 2 Western**

**Connection Road Phase 2, Connection Roads to Fanling /**

**San Tin Highway and Direct Road Link Phase 1**

| Ref*        | Location/Working Period | Anticipated Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|-------------------------|---------------------------|---|--|
| EIA<br>S3.8 | All site area           | Dust impact               | <ul style="list-style-type: none"> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul> |  |

| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>• 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;</li> </ul> |  |



- 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;



- 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;





- 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.



| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S4.8 | All site<br>area               | Noise impact                 | <ul style="list-style-type: none"> <li>• Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>• Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.</li> </ul> |  |



|             |               |                         |   |   |
|-------------|---------------|-------------------------|---|---|
| EIA<br>S5.7 | All site area | Water Pollution Control | <ul style="list-style-type: none"><li>• 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.</li><br/><li>• 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 equipment in order to avoid or minimize polluted runoff.</li></ul> | <br> |
|-------------|---------------|-------------------------|---|---|

- Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m<sup>3</sup> 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 inputs from a variety of sources and suited to applications where the influent is pumped.

- 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.




• 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.



• Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater 0.15m<sup>3</sup>/day/employed populations and be responsible for appropriate disposal and maintenance.



|  |  |  |   |   |
|--|--|--|---|---|
|  |  |  | <ul style="list-style-type: none"><li>• 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.</li></ul> |  |
|--|--|--|---|---|



| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S7.6 | All site<br>area               | Waste<br>Generation          | <ul style="list-style-type: none"> <li>• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>• Proper storage and site practices to minimize the potential for damage and contamination of construction materials;</li> </ul> |  |

Contract No. YL/2020/02

**Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1**  
**Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> Sep 2024

- Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.

- Prepare Waste Management Plan and submit to the Engineer for approval



中國路桥工程有限责任公司  
CHINA ROAD AND BRIDGE CORPORATION

YL/2020/02 - Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2, Western Connection Road Phase 2, Connection Roads in Fanling / San Tin Highway and Direct Road Link Phase 1



Contract No:  
YL/2020/02



Project Title:

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2, Western Connection Road Phase 2, Connection Roads in Fanling / San Tin Highway and Direct Road Link Phase 1


**Waste Management Plan**

Document No: CSF/WMP/01  
Revision: 1  
Date: 19 April 2022



|  |  |   |   |
|--|--|---|---|
|  |  | <ul style="list-style-type: none"><li>• Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling</li><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><li>• General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</li></ul> | <br> |
|--|--|---|---|



|  |  |  |   |
|--|--|--|---|
|  |  | <ul style="list-style-type: none"><li>• 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.</li><br/><li>• 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 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.</li></ul> | <br> |
|--|--|--|---|



| Ref*         | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures  | Photo Records (Partial)  |
|--------------|--------------------------------|------------------------------|--|--|
| EIA<br>S12.7 | All site<br>area               | Ecology                      | <ul style="list-style-type: none"> <li>• Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project.</li> <li>• On-site compensate the same area of the occupied reedbed</li> </ul> |  |

Proactive Environmental Protection Proforma

|               |        |         |   |   |
|---------------|--------|---------|---|---|
| ERR<br>S4.2.2 | STEMDC | Ecology | <ul style="list-style-type: none"><li>• Installation of 3m-high olive green fence site hoarding around construction areas to reduce disturbance and such installation should allow passage of animal</li><br/><li>• Use of mechanized equipment only during the period 9am to 5pm</li></ul> | <br> |
|---------------|--------|---------|---|---|

|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | <ul style="list-style-type: none"><li>Well-defined and fenced work area to prevent intentional or accidental encroachment or trespassing to other part of the mitigation wetland for access, parking, operation of plants/machineries, or stockpiling of construction material/waste nearby</li></ul> <p>Wherever feasible, noise curtain should be installed around noisy plants machineries to minimize the potential audibled disturbance to wildlife in the adjacent habitats</p> |   |
|--|--|--|---|--|



|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | <p>Minimize the construction traffic within the mitigation wetland as far as practicable</p> <p>Measures to avoid any spillage or discharge of untreated runoff from the site to other part of the mitigation wetland should be implemented, including but not limited to provision of sandbags barrier and perimeter channels at site boundaries</p> |   |
|--|--|--|---|--|

|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | <p>Wheel washing bay and mobile toilet should be positioned outside and as far as practicable from the boundary of the mitigation wetland</p> |   |
|  |  |  | <p>Water extraction from the mitigation pond or the shallow open channel should be strictly prohibited</p>                                    |  |





|  |  |  |   |  |
|--|--|--|---|--|
|  |  |  | <p>On-site maintenance of plant/machineries/vehicle should be strictly forbidden until absolutely necessary and away from the mitigation pond as far as practicable</p> |  |
|  |  |  | <p>Waste and refuse should be stored or dumped in appropriate receptacles, and away from the mitigation pond</p>  |  |





Contract No. YL/2020/02

**Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2,  
Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1  
Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> Sep 2024


Do not provide excessive lighting along the boundary of the work site and keep the intensity and duration of lighting to a strictly necessary minimum as far as practicable



Proper upkeep of the drainage pipe installed underneath the work area to avoid any clogging





**Proactive Environmental Protection Proforma**

|               |        |         |  |  |
|---------------|--------|---------|--|--|
| ERR<br>S6.1.2 | STEMDC | Ecology | <ul style="list-style-type: none"><li>water quality monitoring should be carried out by the Contractor during the construction of the pier DRL-P08, and covers the northern and southern parts of the mitigation pond - where the former could act as reference during the evaluation. By making reference to the water monitoring program of the Hong Kong Wetland Park for constructed wetlands, the monitoring parameters should include water temperature, turbidity, biological oxygen demand, nitrogenous and phosphorus compounds, salinity, pH and dissolved oxygen.</li></ul> |  <p>Water quality monitoring in Sept had been conducted on 12 Sep 2024.</p> |
|---------------|--------|---------|--|--|



**Contract No. YL/2021/01 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 3 Direct Road**

**Link Phase 2**

| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)   |
|-------------|--------------------------------|------------------------------|---|---|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul> |   |



| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S3.8 | All site<br>area               | Dust impact                  | <ul style="list-style-type: none"> <li>• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>• 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;</li> </ul> |   |

• 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;





• 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;



- 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.



| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S4.8 | All site<br>area               | Noise impact                 | <ul style="list-style-type: none"> <li>• Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>• Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.</li> </ul> |   |



• An acoustic canvas had been deployed along the site boundary facing the public.



• All generator used onsite are Quality Powered Mechanical Equipment (QPME) registered with EPD.



| <p>EIA<br/>S5.7</p> | <p>All site area</p>              | <p>Water Pollution Control</p> | <ul style="list-style-type: none"> <li>• Update and implementation of Stormwater Pollution Control Plan.</li> <li>• 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.</li> </ul> | <div> <p style="text-align: right;">YL/2021/01 - CR/01/02<br/>Contract No. YL/2021/01<br/>Development of Lok Ma Chau Loop: Main Works Package 1 -<br/>Contract 3 - Direct Road Link Phase 2</p> <p style="text-align: center;"><b>CONTRACTOR'S SUBMISSION FORM</b></p> <p>To : AECOM<br/>Attention : Mr. Roger Man (Project Manager's delegate)</p> <p>Submission Ref. No* : CS/115E/2020024C<br/>AECOM Ref. No. :<br/>Date of Submission : 7 August 2024<br/>Title of Submission : Environmental Management Plan (Rev.29)</p> <p>Proposed Location of Works : -<br/>Specification/Drawing Reference : PS Clause D205)<br/>Description of Content :<br/>According to PS Clause D205), we would like to submit the Environmental Management Plan (Rev.29) for your approval.</p> <p>Attachments : Environmental Management Plan (Rev.29)</p> <p>Reply required by : 21 days</p> <p>Purpose of Submission<br/>For Approval <input checked="" type="checkbox"/> For Comment <input type="checkbox"/> For Information <input type="checkbox"/> For Record <input type="checkbox"/> For Action <input type="checkbox"/></p> <p>FROM : Paul Y-Chun Wo - CRCC Joint Venture</p> <table border="1"> <thead> <tr> <th colspan="2">Prepared by:</th> <th>Reviewed by:</th> <th>Approved &amp; submitted by:</th> </tr> </thead> <tbody> <tr> <td>Title</td> <td>Environmental Officer<br/>Tino Law</td> <td>HSE Manager<br/>Jan Chin</td> <td>Site Agent<br/>Desmond Tang</td> </tr> <tr> <td>Signature</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Date</td> <td>7 August 2024</td> <td>7 August 2024</td> <td>7 August 2024</td> </tr> </tbody> </table> <p><small>*Main Data in Submission Ref. No.<br/>D - Design &amp; Drawings    CR - Construction    SW - Single Storey Works    T - Trench    SI - Sign<br/>SF - Site Facilities    SB - Road &amp; Culvert/Drainage    LH - Landscaping    P - Paving Areas &amp; Paving    ME - Major Works &amp;<br/>MIS - Miscellaneous    C - Contracting &amp; Supply    G - Goods</small></p> </div> <div> </div> | Prepared by: |  | Reviewed by: | Approved & submitted by: | Title | Environmental Officer<br>Tino Law | HSE Manager<br>Jan Chin | Site Agent<br>Desmond Tang | Signature |  |  |  | Date | 7 August 2024 | 7 August 2024 | 7 August 2024 |
|---------------------|-----------------------------------|--------------------------------|---|--|--------------|--|--------------|--------------------------|-------|-----------------------------------|-------------------------|----------------------------|-----------|--|--|--|------|---------------|---------------|---------------|
| Prepared by:        |                                   | Reviewed by:                   | Approved & submitted by:  |  |              |  |              |                          |       |                                   |                         |                            |           |  |  |  |      |               |               |               |
| Title               | Environmental Officer<br>Tino Law | HSE Manager<br>Jan Chin        | Site Agent<br>Desmond Tang  |  |              |  |              |                          |       |                                   |                         |                            |           |  |  |  |      |               |               |               |
| Signature           |                                   |                                |   |  |              |  |              |                          |       |                                   |                         |                            |           |  |  |  |      |               |               |               |
| Date                | 7 August 2024                     | 7 August 2024                  | 7 August 2024   |  |              |  |              |                          |       |                                   |                         |                            |           |  |  |  |      |               |               |               |

• 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 equipment in order to avoid or minimize polluted runoff.



• Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m<sup>3</sup> 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 inputs from a variety of sources and suited to applications where the influent is pumped.


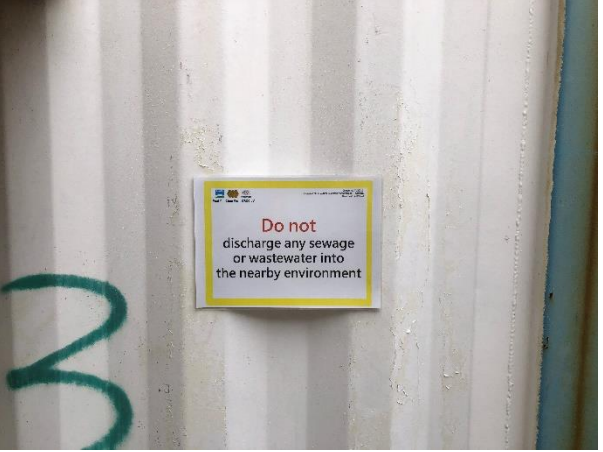


• The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction.

• 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.






|  |  |  |  |   |
|--|--|--|--|---|
|  |  |  | <ul style="list-style-type: none"><li>• Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater 0.15m<sup>3</sup>/day/employed populations and be responsible for appropriate disposal and maintenance.</li><br/><li>• 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.</li></ul> | <br> |
|--|--|--|--|---|



**Contract No. YL/2021/01 – Contract No.: YL/2021/01**

**Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2**

**Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

|  |  |  |  |   |
|--|--|--|--|---|
|  |  |  | <ul style="list-style-type: none"><li>•An additional water pump had been set up and the concerned outlet have been sealed up with concrete</li></ul> |  |
|--|--|--|--|---|

| Ref*        | Location/<br>Working<br>Period | Anticipated<br>Major Impacts | Recommended Mitigation Measures   | Photo Records (Partial)  |
|-------------|--------------------------------|------------------------------|---|--|
| EIA<br>S7.6 | All site<br>area               | Waste<br>Generation          | <ul style="list-style-type: none"> <li>• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>• Proper storage and site practices to minimize the potential for damage and contamination of construction materials;</li> </ul> |   |

**Contract No. YL/2021/01 – Contract No.: YL/2021/01**  
**Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2**  
**Proactive Environmental Protection Proforma**

Working Period: 1<sup>st</sup> to 30<sup>th</sup> September 2024

- Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.



- Prepare Waste Management Plan and submit to the Engineer for approval

YL/2021/01\_CSP\_Env.01

Contract No. YL/2021/01  
Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3  
Direct Road Link Phase 2

**CONTRACTOR'S SUBMISSION FORM**

To : AECOM  
 Attention : Mr. Roger Man (Project Manager's delegate)

Submission Ref. No\* : CSF/HSE/0000005  
 AECOM Ref. No. : -  
 Date of Submission : 13 October 2023

Title of Submission : Site Management Plan for Implementation of the Trip Ticket System Rev.19  
 Proposed Location of Works : -  
 Specification/Drawing Reference : PS Clause 25.25 (10)  
 Description of Content : -  
 According to PS Clause 25.25 (10), we would like to submit the Site Management Plan for Implementation of the Trip Ticket System (Rev.19) for your approval.

Attachments : Site Management Plan for Implementation of the Trip Ticket System (Rev.19)  
 Reply required by : 21 days



Purpose of Submission:  
 For Approval  For Comment  For Information  For Record  For Action



FROM : Paul Y – Chun Wo – CRCCL Joint Venture

|           | Prepared by:                        | Reviewed by:             | Approved & submitted by:     |
|-----------|-------------------------------------|--------------------------|------------------------------|
| Title     | Environmental Officer<br>(Tiao Law) | HSE Manager<br>(Ho Wong) | Site Agent<br>(Desmond Tang) |
| Signature |                                     |                          |                              |
| Date      | 5 October 2023                      | 5 October 2023           | 5 October 2023               |

\*Form Code in Submission Ref. No.:  
 P – Policy & Procedures    FSE – Foundation    STW – Sewage Treatment Works    S – Survey    FF – Park  
 M – Site Information    WQI – Water & Wastewater Services    LMS – Landscaping    P – Pipelines & Piling    HSE – Health, Safety & Environment



|  |  |   |   |
|--|--|---|---|
|  |  | <ul style="list-style-type: none"><li>• Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling</li><br/><br/><br/><br/><br/><br/><br/><br/><br/><br/><li>• General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.</li></ul> | <br> |
|--|--|---|---|

|  |  |  |   |
|--|--|--|---|
|  |  | <ul style="list-style-type: none"><li>• 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.</li><br/><li>• 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 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.</li></ul> | <br> |
|--|--|--|---|

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**APPENDIX N**  
**TEMPORARY NOISE BARRIERS**

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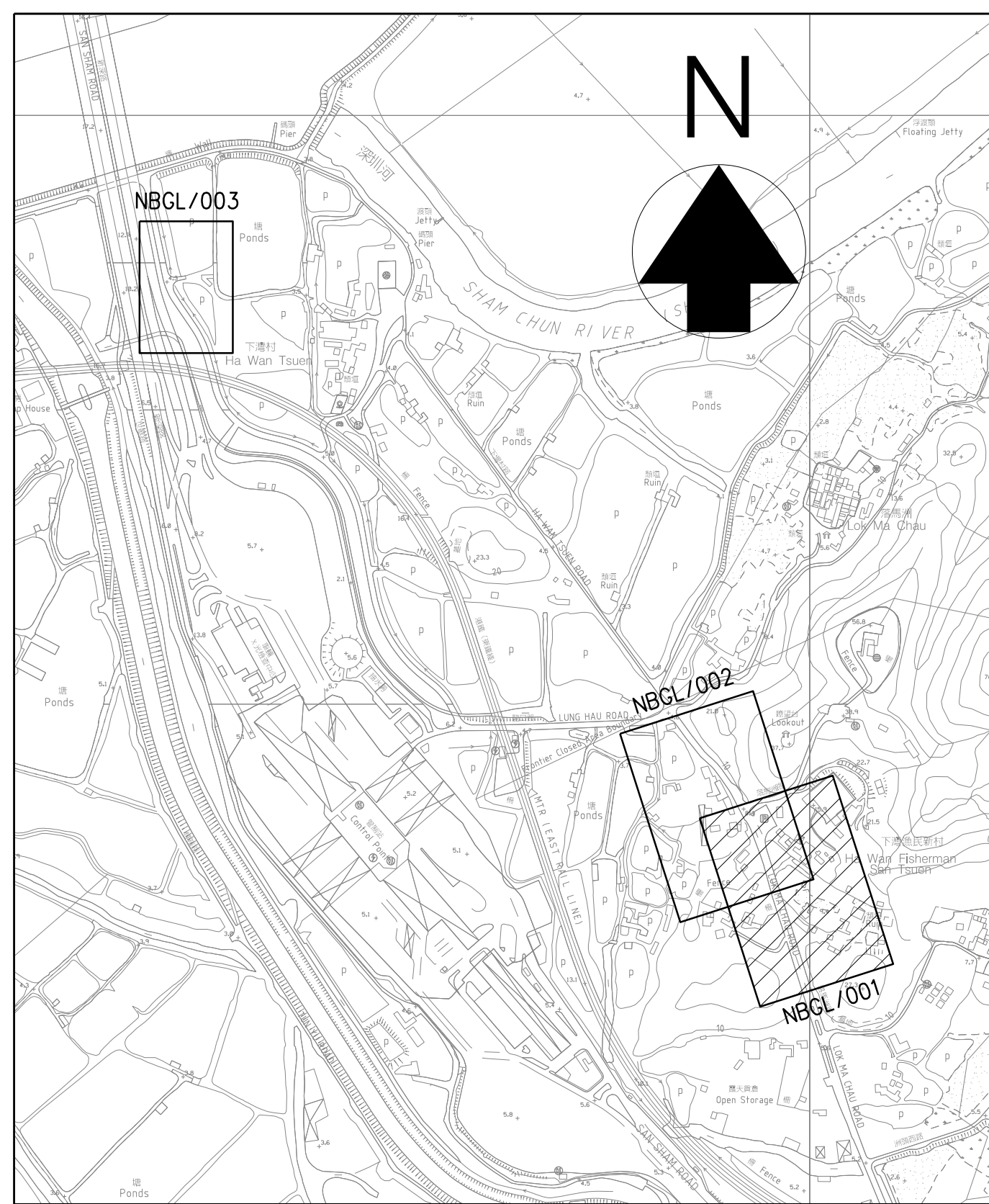


NOTES:

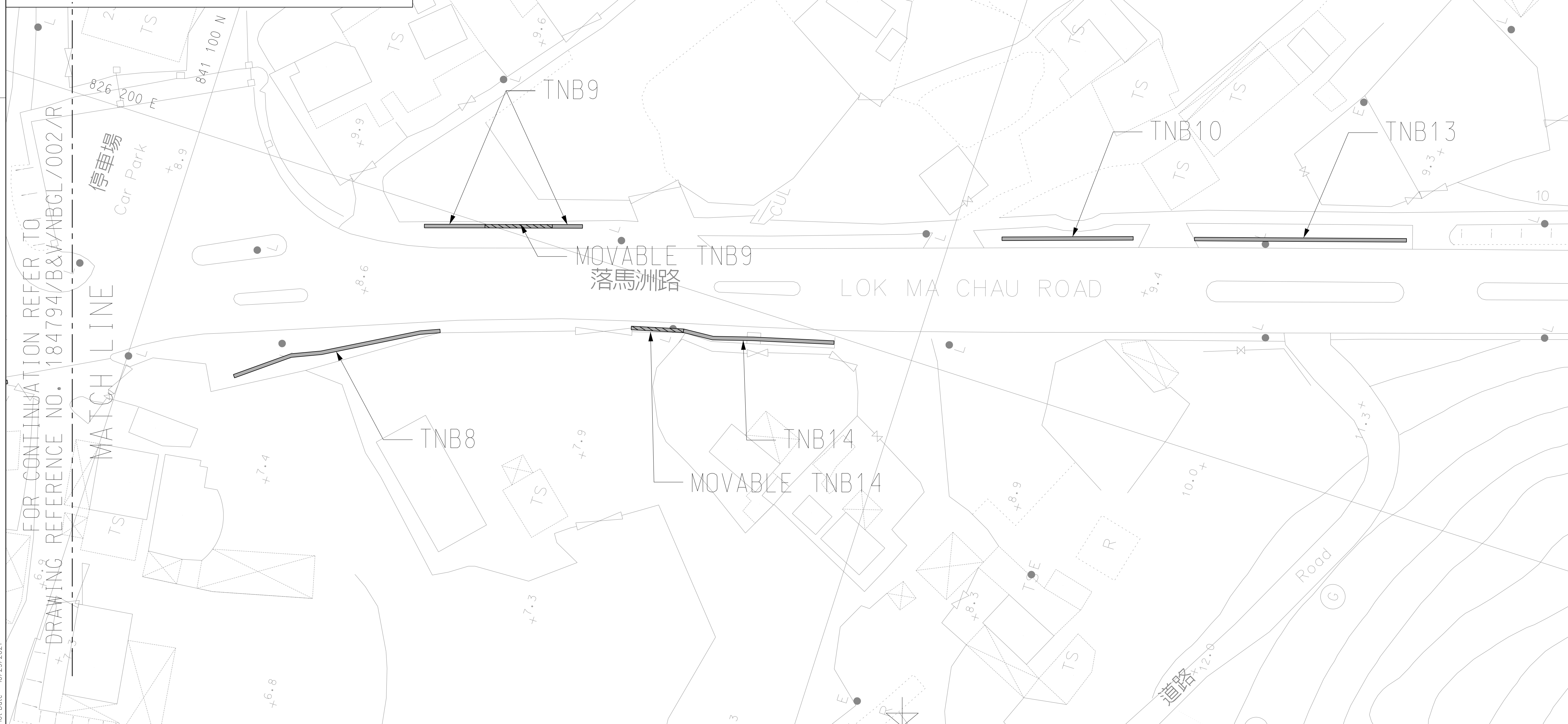
1. FOR DETAILS OF NOISE BARRIER, PLEASE REFER TO DRAWING NO. 184794/B&V/NB15/001/R & NO. 184794/B&V/NB15/002/R.

LEGEND:

- 1.5m - HIGH TEMPORARY NOISE BARRIER
- 1.5m - HIGH MOVEABLE TEMPORARY NOISE BARRIER



LOCATION PLAN  
N.T.S.



FOR CONTINUATION REFER TO DRAWING REFERENCE NO. 184794/B&V/NBGL/002/R

MATCH LINE

WORK AS EXECUTED

DATE OF COMMENCEMENT : 22 JUN 2018

DATE OF COMPLETION :

核准  
Approved

合約編號  
Contract No. YL/2017/03

合約編號  
Agreement No. CE 5/2014 (CE)

合約名稱  
Contract title  
DEVELOPMENT OF LOK MA CHAU LOOP:  
LAND DECONTAMINATION AND  
ADVANCE ENGINEERING WORKS

圖則名稱  
Drawing title  
NOISE BARRIER -  
GENERAL LAYOUT PLAN

(SHEET 1 OF 3)

圖則參考編號  
Drawing Reference No. 184794/NBGL/001/R

修訂  
Revision -

合約圖則編號  
Contract Drawing No.

修訂  
Revision -

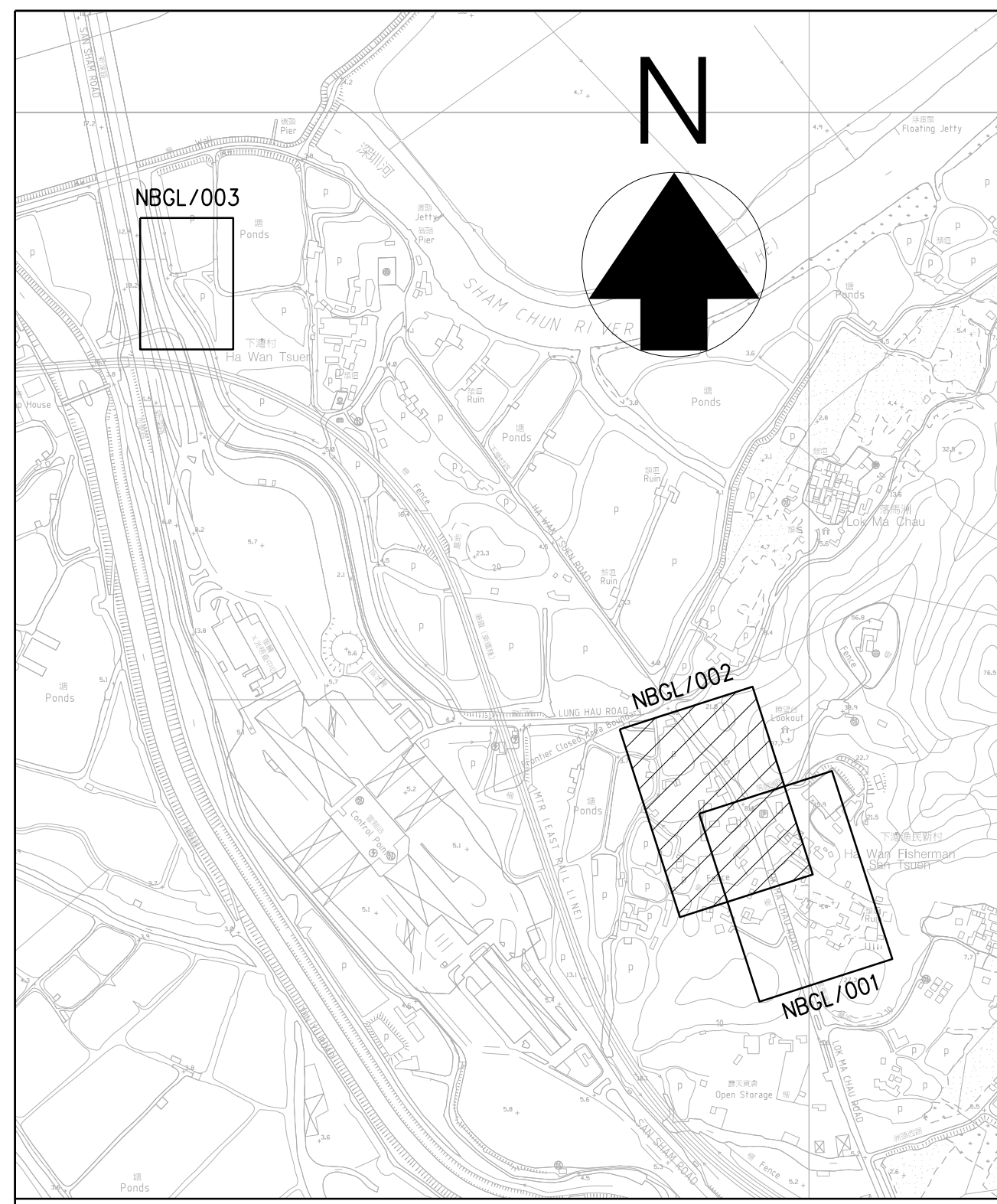
比例  
Scale A1 1 : 300  
A3 1 : 600

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



BINNIES HONG KONG LIMITED  
賓尼士工程顧問有限公司





LOCATION PLAN  
N.T.S.



FOR CONTINUATION REFER TO DRAWING REFERENCE NO. 184794/B&V/NBGL/001/R

MATCH LINE

**NOTES:**  
1. FOR DETAILS OF NOISE BARRIER, PLEASE REFER TO DRAWING NO. 184794/B&V/NB15/001/R & NO. 184794/B&V/NB15/002/R.

**LEGEND:**  
 1.5m - HIGH TEMPORARY NOISE BARRIER  
 1.5m - HIGH MOVEABLE TEMPORARY NOISE BARRIER

WORK AS EXECUTED

DATE OF COMMENCEMENT : 22 JUN 2018  
DATE OF COMPLETION :

核准  
Approved

合約編號  
Contract No. YL/2017/03

合約編號  
Agreement No. CE 5/2014 (CE)

合約名稱  
Contract title  
DEVELOPMENT OF LOK MA CHAU LOOP:  
LAND DECONTAMINATION AND  
ADVANCE ENGINEERING WORKS

圖則名稱  
Drawing title  
AS-CONSTRUCTED DRAWING  
NOISE BARRIER -  
GENERAL LAYOUT PLAN  
(SHEET 2 OF 3)

圖則參考編號  
Drawing Reference No. 184794/NBGL/002/R 修訂  
Revision -

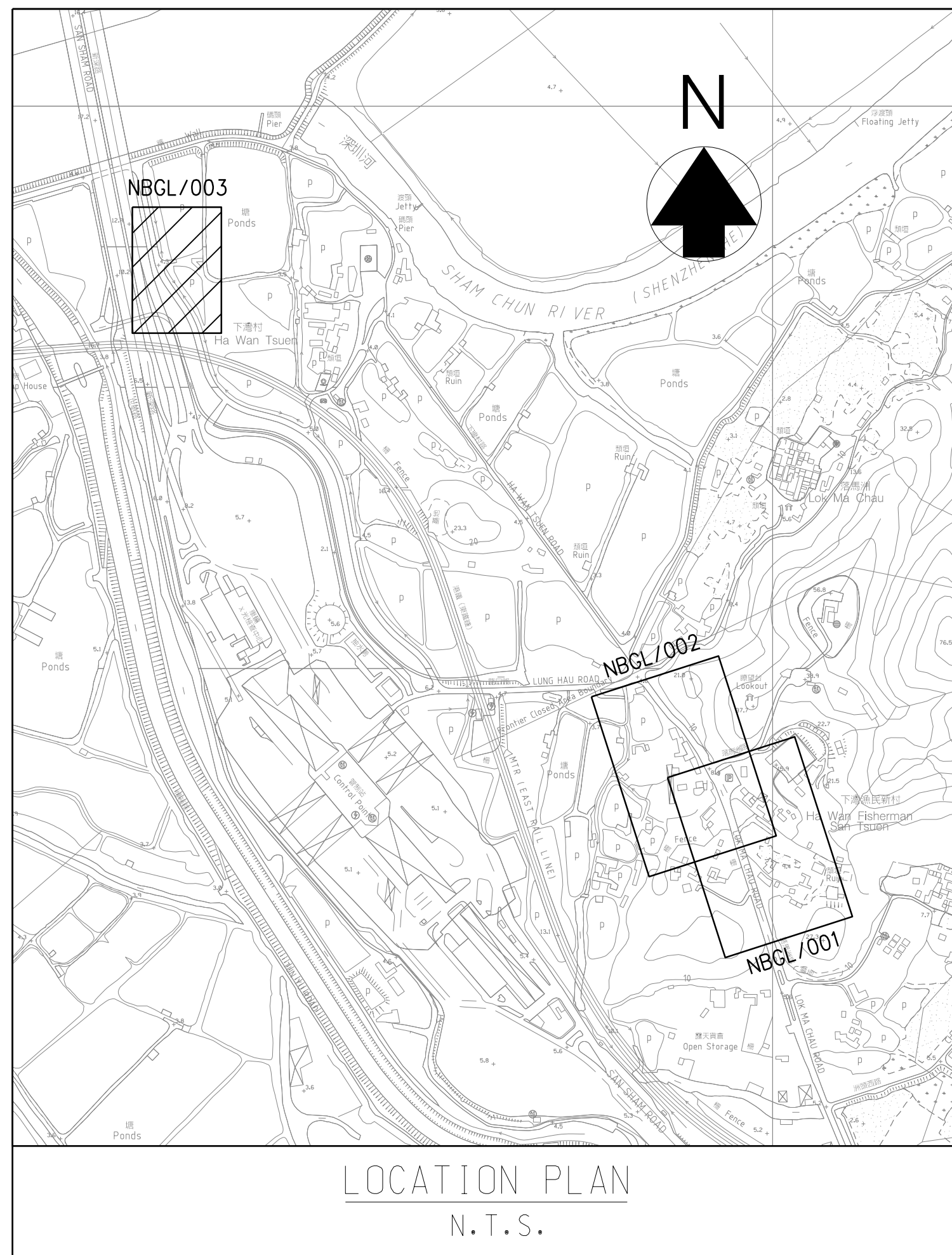
合約圖則編號  
Contract Drawing No. 修訂  
Revision -

比例  
Scale A1 1 : 300  
A3 1 : 600

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NOTE:  
1. FOR DETAILS OF NOISE BARRIER, PLEASE REFER TO DRAWING NO. 184794/B&V/NB08/001/R.

LEGEND:  
 0.8m - HIGH TEMPORARY NOISE BARRIER (TYPE A)  
 0.8m - HIGH TEMPORARY NOISE BARRIER (TYPE B)

WORK AS EXECUTED

DATE OF COMMENCEMENT : 22 JUN 2018  
DATE OF COMPLETION :

核准  
Approved

合約編號  
Contract No. YL/2017/03

合約編號  
Agreement No. CE 5/2014 (CE)

合約名稱  
Contract title  
DEVELOPMENT OF LOK MA CHAU LOOP:  
LAND DECONTAMINATION AND  
ADVANCE ENGINEERING WORKS

圖則名稱  
Drawing title  
AS-CONSTRUCTED DRAWING  
NOISE BARRIER -  
GENERAL LAYOUT PLAN  
(SHEET 3 OF 3)

圖則參考編號  
Drawing Reference No. 184794/NBGL/003/R 修訂  
Revision -

合約圖則編號  
Contract Drawing No. 修訂  
Revision -






比例  
Scale A1 1 : 200  
A3 1 : 400

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Plot Date : 11/7/2021

Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works  
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road

| TNB ID | Photo  |
|--------|--|
| TNB1   |    |
| TNB2   |   |
| TNB11  |  |
| TNB3   |  |
| TNB4   |  |






Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works  
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road



| TNB ID | Photo  |
|--------|--|
| TNB6   |  A photograph showing a temporary noise barrier (TNB6) along a road. The barrier is a grey, corrugated metal structure. In the background, there are buildings, including one with Chinese characters. A red line with the label 'TNB6' spans the length of the barrier.   |
| TNB7   |  A photograph showing a temporary noise barrier (TNB7) along a road. The barrier is a grey, corrugated metal structure. In the background, there are buildings, including a multi-story residential building with a red roof and palm trees. A red line with the label 'TNB7' spans the length of the barrier.                          |
| TNB8   |  A photograph showing a temporary noise barrier (TNB8) along a road. The barrier is a grey, corrugated metal structure. In the background, there are trees and a building with a red roof. A red line with the label 'TNB8' spans the length of the barrier. The date '29/07/2021' is visible in the bottom right corner of the photo. |



Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works  
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road




| TNB ID | Photo  |
|--------|--|
| TNB9   |  A photograph showing a temporary noise barrier (TNB9) along a road. The barrier consists of grey concrete blocks with a metal mesh fence on top. In the background, there are trees and a building. A red box highlights the barrier, with the label 'TNB9' in red text above it.   |
| TNB10  |  A photograph showing a temporary noise barrier (TNB10) along a road. The barrier consists of grey concrete blocks with a metal mesh fence on top. In the background, there are trees and a building. A red box highlights the barrier, with the label 'TNB10' in red text above it. The date '29/4/2021' is visible in the bottom right corner.  |
| TNB13  |  A photograph showing a temporary noise barrier (TNB13) along a road. The barrier consists of grey concrete blocks with a metal mesh fence on top. In the background, there are trees and a building. A red box highlights the barrier, with the label 'TNB13' in red text above it. The date '29/4/2021' is visible in the bottom right corner. |

Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works  
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road




| TNB ID | Photo  |
|--------|--|
| TNB14  |  A photograph showing a temporary noise barrier (TNB14) along a road. The barrier is a grey metal fence. In the background, there are buildings and trees. A red box highlights the barrier, with the text 'TNB14' written above it. The road is paved and has white lane markings.  |
| TNB15  |  A photograph showing a temporary noise barrier (TNB15) along a road. The barrier is a concrete wall. In the background, there are trees and a cloudy sky. A red box highlights the barrier, with the text 'TNB15' written above it. The road is paved and has white lane markings. A date stamp '27/06/2020' is visible in the bottom right corner of the photo. |




YL/2020/02 – Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road




| TNB ID | Photo  |
|--------|--|
| 2      |    |
| 3<br>4 |   |
| 5      |  |

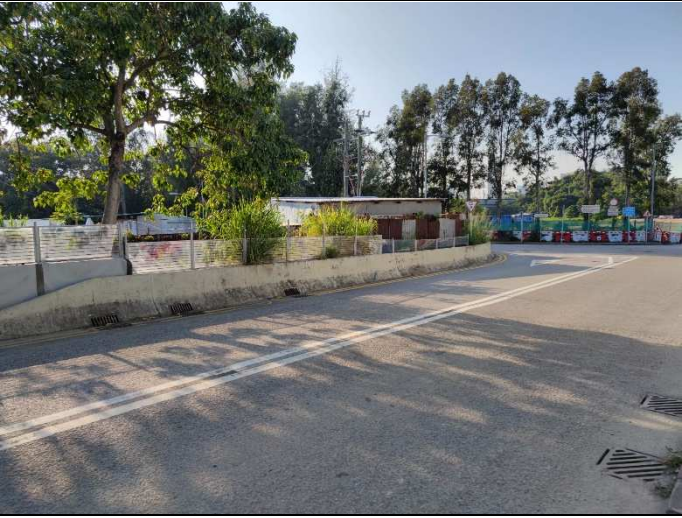


| TNB ID | Photo  |
|--------|--|
| 6      |    |
| 7      |   |
| 8      |  |

| TNB ID | Photo  | Construction Status |
|--------|--|---------------------|
| 9      |    | Completed           |
| 10     |   | Completed           |
| 11     |  | Completed           |



| TNB ID | Photo  |
|--------|--|
| 12     |    |
| 13     |   |
| 14     |  |

| TNB ID | Photo  |
|--------|--|
| 17     |  |



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**APPENDIX O  
WASTE GENERATION IN THE  
REPORTING MONTH**

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**Contract No. YL/2020/01 - Development of Lok Ma Chau  
Loop: Main Works Package 1 – Contract 1 Site Formation  
and Infrastructure Works inside Lok Ma Chau Loop and  
Western Connection Road Phase 1**

## Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record:

Development of Lok Ma Chau Loop : Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection

Contract No.: YL/2020/01

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                                |                                 |                                |                          | Actual Quantities of C&D Wastes Generated Monthly |                                   |             |             |                |                                |
|-----------|--|--|--------------------------------|---------------------------------|--------------------------------|--------------------------|---|-----------------------------------|-------------|-------------|----------------|--------------------------------|
|           | Total Quantity Generated<br>(a)=<br>(b)+(c)+(d)+(e)        | Hard Rock and Large Broken Concrete<br>(b) | *Reused in the Contract<br>(c) | Reused in other Projects<br>(d) | Disposed as Public Fill<br>(e) | Imported Fill            | Metals  | Paper/<br>cardboard<br>packaging/ | Plastics    | Yard Waste  | Chemical Waste | Others, e.g.<br>general refuse |
|           | (in '000m <sup>3</sup> )                                   | (in '000m <sup>3</sup> )                   | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> )        | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> ) | (in '000 kg)                                      | (in '000kg)                       | (in '000kg) | (in '000kg) | (in '000kg)    | (in '000m <sup>3</sup> )       |
| Jan-24    | 0.640  | 0.000                                      | 0.000                          | 0.000                           | 0.640                          | 0.244                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.246                          |
| Feb-24    | 2.816  | 0.625                                      | 0.000                          | 0.000                           | 2.191                          | 0.787                    | 0.000   | 0.157                             | 0.000       | 0.000       | 0.000          | 0.153                          |
| Mar-24    | 7.378  | 4.644                                      | 0.000                          | 0.000                           | 2.734                          | 0.000                    | 0.003   | 0.012                             | 0.015       | 0.000       | 0.000          | 0.229                          |
| Apr-24    | 1.369  | 0.287                                      | 0.000                          | 0.000                           | 1.081                          | 0.000                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.100                          |
| May-24    | 1.633  | 0.000                                      | 0.000                          | 0.000                           | 1.633                          | 0.000                    | 0.003   | 0.000                             | 0.011       | 0.000       | 0.000          | 0.077                          |
| Jun-24    | 0.908  | 0.000                                      | 0.000                          | 0.000                           | 0.908                          | 0.000                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.049                          |
| Sub-total | 14.744   | 5.556                                      | 0.000                          | 0.000                           | 9.188                          | 1.031                    | 0.006   | 0.169                             | 0.026       | 0.000       | 0.000          | 0.853                          |
| Jul-24    | 1.204  | 0.000                                      | 0.000                          | 0.000                           | 1.204                          | 0.000                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.095                          |
| Aug-24    | 11.287   | 0.000                                      | 0.000                          | 0.000                           | 11.287                         | 0.000                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.069                          |
| Sep-24    | 5.501  | 0.000                                      | 0.000                          | 0.000                           | 5.501                          | 0.000                    | 0.000   | 0.000                             | 0.000       | 0.000       | 0.000          | 0.068                          |
| Oct-24    |  |  |                                |                                 |                                |                          |   |                                   |             |             |                |                                |
| Nov-24    |  |  |                                |                                 |                                |                          |   |                                   |             |             |                |                                |
| Dec-24    |  |  |                                |                                 |                                |                          |   |                                   |             |             |                |                                |
| Total     | 32.737   | 5.556                                      | 0.000                          | 0.000                           | 27.181                         | 1.031                    | 0.006   | 0.169                             | 0.026       | 0.000       | 0.000          | 1.084                          |

Remarks:

1. Assume the density of soil fill=2.0 tonnes/m<sup>3</sup>
2. Assume the density of rock and broken concrete=2.5 tonnes/m<sup>3</sup>
3. Assume the density of refuse = 1.5 tonnes/m<sup>3</sup>
4. The inert C&D material except slurry and bentonite are disposed at Tuen Mun 38
5. The slurry and bentonite are disposed at Tseung Kuwn O 137.
6. The non-inert C&D wastes, including general refuse are disposed at NENT

**Contract No. YL/2020/02 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 2 Western**

**Connection Road Phase 2, Connection Roads to Fanling /**

**San Tin Highway and Direct Road Link Phase 1**

## Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: Celia Yung (EO)

Project : Development of Lok Ma Chau Loop: Main Works Package 1– Contract 2, Western Connection Road Phase 2,  
Connection Roads in Fanling / San Tin Highway and Direct Road Link Phase 1

Contract No.: YL/2020/02

| 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 | Reused in the Contract   | Reused in other Projects | Disposed as Public Fill  | Imported Fill            | Metals  | Paper/ cardboard packaging | Plastics<br>(see Note 3) | Chemical Waste | Others, e.g. general refuse |
|           | (in '000m <sup>3</sup> )                                   | (in '000m <sup>3</sup> )            | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000m <sup>3</sup> ) | (in '000 kg)                                      | (in '000kg)                | (in '000kg)              | (in '000kg)    | (in '000 m <sup>3</sup> )   |
| Jan       | 1.863  | 0.000                               | 0.000                    | 0.000                    | 1.863                    | 1.332                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.274                       |
| Feb       | 0.702  | 0.000                               | 0.000                    | 0.000                    | 0.702                    | 0.419                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.226                       |
| Mar       | 2.750  | 0.000                               | 0.000                    | 0.000                    | 2.750                    | 1.530                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.194                       |
| Apr       | 1.647  | 0.000                               | 0.000                    | 0.000                    | 1.647                    | 1.824                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.397                       |
| May       | 1.962  | 0.000                               | 0.000                    | 0.000                    | 1.962                    | 0.990                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.302                       |
| Jun       | 3.663  | 0.000                               | 0.000                    | 0.000                    | 3.663                    | 1.290                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.215                       |
| Sub-total | 12.587   | 0.000                               | 0.000                    | 0.000                    | 12.587                   | 7.385                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 1.609                       |
| Jul       | 1.211  | 0.000                               | 0.000                    | 0.000                    | 1.211                    | 0.522                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.232                       |
| Aug       | 1.949  | 0.000                               | 0.000                    | 0.000                    | 1.949                    | 0.162                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.326                       |
| Sep       | 1.251  | 0.000                               | 0.000                    | 0.000                    | 1.251                    | 0.420                    | 0.000   | 0.057                      | 0.000                    | 0.000          | 0.267                       |
| Oct       | 0.000  | 0.000                               | 0.000                    | 0.000                    | 0.000                    | 0.000                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.000                       |
| Nov       | 0.000  | 0.000                               | 0.000                    | 0.000                    | 0.000                    | 0.000                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.000                       |
| Dec       | 0.000  | 0.000                               | 0.000                    | 0.000                    | 0.000                    | 0.000                    | 0.000   | 0.000                      | 0.000                    | 0.000          | 0.000                       |
| Total     | 16.997   | 0.000                               | 0.000                    | 0.000                    | 16.997                   | 8.489                    | 0.000   | 0.057                      | 0.000                    | 0.000          | 2.434                       |

Note:

1. For non-inert portion of C&D material, assume the density of 1 m<sup>3</sup> general refuse is equal to 200 kg.
2. For inert portion of C&D material, assume 6 m<sup>3</sup> per each full-filled dump truck.
3. All values are round off to the third decimal places.

**Contract No. YL/2021/01 – Development of Lok Ma Chau**

**Loop: Main Works Package 1 – Contract 3 Direct Road**

**Link Phase 2**

## Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: Tino Law

Development of Lok Ma Chau Loop : Main Works Package 1 – Contract 3

Contract No.: YL/2021/01

| Month     | Actual Quantities of Inert C&D Materials Generated Monthly |  |                                |                                 |                                |                          | Actual Quantities of C&D Wastes Generated Monthly |                                   |                              |             |                |                                |
|-----------|--|--|--------------------------------|---------------------------------|--------------------------------|--------------------------|---|-----------------------------------|------------------------------|-------------|----------------|--------------------------------|
|           | Total Quantity Generated<br>(a)=<br>(b)+(c)+(d)+(e)        | Hard Rock and Large Broken Concrete<br>(b) | *Reused in the Contract<br>(c) | Reused in other Projects<br>(d) | Disposed as Public Fill<br>(e) | Imported Fill            | Metals  | Paper/<br>cardboard<br>packaging/ | Plastics<br><br>(see Note 3) | Yard Waste  | Chemical Waste | Others, e.g.<br>general refuse |
|           | (in '000m <sup>3</sup> )                                   | (in '000m <sup>3</sup> )                   | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> )        | (in '000m <sup>3</sup> )       | (in '000m <sup>3</sup> ) | (in '000 kg)                                      | (in '000kg)                       | (in '000kg)                  | (in '000kg) | (in '000kg)    | (in '000m <sup>3</sup> )       |
| Jan-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.015                             | 0.000                        | 0.000       | 0.000          | 0.003                          |
| Feb-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.002                          |
| Mar-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.003   | 0.012                             | 0.015                        | 0.000       | 0.000          | 0.006                          |
| Apr-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.013                          |
| May-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.002   | 0.000                             | 0.010                        | 0.000       | 0.000          | 0.024                          |
| Jun-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.002                          |
| Sub-total | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.005   | 0.027                             | 0.025                        | 0.000       | 0.000          | 0.050                          |
| Jul-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.000                          |
| Aug-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.005   | 0.016                             | 0.007                        | 0.000       | 0.000          | 0.035                          |
| Sep-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.054                          |
| Oct-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.000                          |
| Nov-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.000                          |
| Dec-24    | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.000   | 0.000                             | 0.000                        | 0.000       | 0.000          | 0.000                          |
| Total     | 0.000  | 0.000                                      | 0.000                          | 0.000                           | 0.000                          | 0.000                    | 0.010   | 0.043                             | 0.032                        | 0.000       | 0.000          | 0.139                          |

### Remarks:

1. Assume the density of soil fill=2.0 tonnes/m<sup>3</sup>
2. Assume the density of rock and broken concrete=2.5 tonnes/m<sup>3</sup>
3. Assume the density of refuse = 1.5 tonnes/m<sup>3</sup>
4. The inert C&D material except slurry and bentonite are disposed at Tuen Mun 38
5. The non-inert C&D wastes, including general refuse are disposed at NENT



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**APPENDIX P  
COMPLAINT LOGS**

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**Appendix P - Complaint Log**Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works

| <b>Log Ref.</b> | <b>Date of Complaint</b> | <b>Complaint Route</b> | <b>Reference No.</b>       | <b>Complaint Nature</b>       | <b>Investigation Finding</b> | <b>Status</b>  |
|-----------------|--------------------------|------------------------|----------------------------|-------------------------------|------------------------------|--|
| 1               | 9-Sep-19                 | EPD                    | EPD Ref: 25222-19          | Water quality and air quality | Non-project related          | Interim report was submitted to EPD on 23 Sep 2019                                     |
| 2               | 11-Oct-19                | EPD                    | EPD Ref: 28550-19          | Air quality                   | Non-project related          | Interim report was submitted to EPD on 6 Nov 2019                                      |
| 3               | 30-Oct-19                | EPD                    | EPD Ref: 30478-19          | Air quality                   | Non-project related          | Interim report was submitted to EPD 14 Nov 2019  |
| 4               | 10-Dec-19                | 1823 (CEDD)            | 1823 Case no: 2-6145710343 | Noise and air quality         | Non-project related          | Final reply to 1823 on 24 Dec 2019. IR prepared by Contractor was agreed by IEC and ET |
| 5               | 5-Mar-21                 | 1823                   | 1823 Case no: 3-6641544979 | Air quality                   | Non-project related          | Final reply to 1823 on 11 Mar 2021. IR prepared by Contractor was agreed by IEC and ET |

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 / Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 / Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                      | Details of Complaint  | Investigation Finding  | Status   |
|----------------|-------------------|-----------------|------------------------------------|---|--|--|
| COM-2021-10-01 | 11 October 2021   | EPD             | EPD File Ref.: N07/RN/00 024120-21 | <p>EPD received a public complaint on 11 October 2021. The complainant alleged the following:</p> <p>(a) Discharge of muddy water from construction sites of “Development of Lok Ma Chau Loop” project to Shenzhen River in the morning of 8 October 2021; and,</p> <p>(b) Use of powered mechanical equipment (including excavators and dump trucks) in the construction sites of “Development of Lok Ma Chau Loop” project on Sunday.</p> | <p>(a) <u>Water Quality</u><br/>Non-project related<br/>According to the interim report, wastewater treatment facilities and relevant mitigation measures were properly implemented and there is no direct evidence to demonstrate the muddy discharge was inducted by the Contract.<br/>Further preventive measures, such as increasing the height of the temporary drainage by using sandbag and providing the earth bund with geo-textile along the site boundary, were implemented on 12 October 2021 in order to avoid muddy water from leaking into Shen Zhen River.</p> <p>(b) <u>Noise</u><br/>Project related<br/><br/>Typhoon No. 8 (Tropical cyclone: Lion Rock) was hoisted on 9 October 2021. Severe rainfall was recorded due to the adverse weather. To avoid leakage of the muddy water into the meander of the Shenzhen River, JV mobilized an excavator and dump truck to clear the blockage as an emergency measure.<br/>ET reminded the Contractor to update the site drainage</p> | Interim report was submitted to EPD on 29 Oct 2021 |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                      | Details of Complaint   | Investigation Finding  | Status   |
|----------------|-------------------|-----------------|------------------------------------|--|--|--|
|                |                   |                 |                                    |  | <p>plan according to the construction programme and closely check the effectiveness of the implemented mitigation measures on site so that the EP, EIA and EM&amp;A manual recommendation and requirements are complied with.</p> <p>In addition, the Contractor was also reminded to prepare a contingency plan for emergency environmental incidents.</p>  |  |
| COM-2021-11-01 | 15 November 2021  | EPD             | EPD File Ref.: N06/RN/00 027302-21 | EPD received a public complaint on 15 November 2021. The complainant concerned about the dust nuisance in the construction sites of “Development of Lok Ma Chau Loop” project. | <p>According to the interim report, dust mitigation measures have been properly implemented on site:</p> <ul style="list-style-type: none"> <li>- Haul road of the main site have been paved with concrete and the speed of the vehicle has been restricted to below 8kmper hour within the construction area to minimize fugitive dust emission.</li> <li>- Wheel washing fallibilities have been established at the location where the vehicles into the haul road in order to keep clear of any loose surface material.</li> <li>- Mist spray and water trucks have been provided to water the paved haul road regularly and at least once per hour on exposed work site.</li> <li>- Water spray has been provided during the handling of the fill material at the site and all the dusty loads transported to, from and between site location have been covered.</li> <li>- Induction training and tool box talk have been provided to the site staff and workers regarding the dust suppression measure.</li> <li>- Temporary covers have been provided to stockpile of the dusty materials and the exposed slope.</li> </ul> | Interim report was submitted to EPD on 25 Nov 2021 |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                    | Details of Complaint   | Investigation Finding  | Status   |
|----------------|-------------------|-----------------|----------------------------------|--|--|--|
|                |                   |                 |                                  |  | Further preventive measures, establishment of the automatic water spray system along the haul road and increasing the amount of the mist spray machine to enhance the efficiency of the dust suppression measures will also be provided.   |  |
| COM-2022-01-01 | 2 January 2022    | EPD             | EPD File Ref.: N06/RN/0000184-22 | EPD received a public complaint by phone in Jan 2022 regarding noise from general construction work associated with the Lok Ma Chau Loop Development Project being carried out on 2.1.2022 at around 15:30 hours (i.e. within the restricted hours on Sunday). | <p>According to the location under complaint, the work was likely carried out within the work site of “Direct Road Link to MTR Lok Ma Chau Station” and/or “Western Connection Road”. Therefore, interim reports were submitted by Contract No.: YL/2020/01 and YL/2020/02 respectively:-</p> <p><u>Contract No.: YL/2020/01</u></p> <p>According to the site diary, no construction work was carried out during restricted hours at the location under complaint for YL/2020/01 on 2 January 2022. For prevention measure, Permit –to –Work system has been implemented for all the construction works being conducted in the restricted hours to enhance site control. All the construction works need to inform JV at least one day in advance.</p> <p>In addition, all staff and workers involved in the site operation during the restricted hours have to obtain a valid site pass and display to the security guards when entering site area for the enhancement of the site security system.</p> <p>Based on the above information and investigation findings, the noise complaint is not related to the</p> | Interim report was submitted to EPD on 14 Feb 2022 |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.              | Details of Complaint   | Investigation Finding   | Status   |
|----------------|-------------------|-----------------|----------------------------|--|---|--|
|                |                   |                 |                            |  | <p>construction works of the Contract YL/2020/01.</p> <p><u>Contract No.: YL/2020/02</u><br/>According to the site diary, no construction work was carried out during restricted hours at the location under complaint on 2 January 2022 for YL/2020/02. Nevertheless, construction team was reminded to strictly follow the requirement stated in the issued construction noise permit when construction work is required during restricted hours.</p> <p>Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract YL/2020/02.</p>  |  |
| COM-2022-04-01 | 4 April 2022      | 1823            | 1823 Case no: 3-7155426748 | The complainant concerned about the muddy surface runoff arising from the construction works of “Development of Lok Ma Chau Loop” project. at Lok Ma Chau Road near Ha Wan Tsuen Road. | <p>According to the interim report, no construction works was carried out at the location of complaint which is outside the site boundary of the Project from 1st April to 4th April 2022. Appropriate water quality mitigation measures have been properly implemented on site and there is no direct evidence to demonstrate the muddy discharge was inducted by the Project.</p> <p>Further preventive measures, such as set up a monitoring point at the exit of the site to check the wheels of the vehicles are clean enough so that no mud and grit adhered to the wheels of the trucks when leaving the site. In addition, sprinkler truck will be only operated at appropriate location within the project site to avoid nuisance to the public road user.</p> | Final reply to 1823 on 12 April 2022. Interim report prepared by Contractor was agreed by IEC and ET |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                      | Details of Complaint  | Investigation Finding   | Status   |
|----------------|-------------------|-----------------|------------------------------------|---|---|--|
| COM-2022-08-01 | 1 August 2022     | EPD             | EPD File Ref.: N06/RN/00 015561-22 | The complainant concerned about the muddy water discharged by a piling contractor “德運建築鑽探有限公司” on 20 <sup>th</sup> July 2022  | <u>Contract No.: YL/2020/01</u><br>德運建築鑽探有限公司 is not related to the Contract No. YL/2020/01. After checking on site, the complaint was referred to other party.   | Interim report was submitted to EPD on 18 Aug 2022 |
| COM-2022-08-02 | 4 August 2022     | EPD             | EPD File Ref.: N06/RN/00 015953-22 | The complainant concerned about the muddy water discharging to the public area from a construction site near Fu Tai Car Park.   | <u>Contract No.: YL/2020/02</u><br>Joint site investigation with RSS was carried out on 5 Aug 2022 near Fu Tai Carpark. There were no construction works carried out near Fu Tai Carpark and no muddy water was noted. Preventive measures (sand bag bund) had been provided.   | Interim report was submitted to EPD on 18 Aug 2022 |
| COM-2022-10-01 | 14 October 2022   | EPD             | EPD File Ref.: N06/RN/00 022308-22 | The complainant concerned about the noise arising from piling works carried out at 6am in the morning and around 11pm at night at the construction site adjacent to the existing Lok Ma Chau MTR Station. | <u>Contract No.: YL/2021/01</u><br>According to the interim report, the piling works were carried out with valid construction noise permit from 08:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to-work system) have been implemented on site.<br><br>Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment to minimize the noise generated from works and the impact to the nearby resident. | Interim report was submitted to EPD on 17 Nov 2022 |
| COM-2022-10-02 | 14 October 2022   | EPD             | EPD File Ref.: N06/RN/00 022342-22 | The complainant concerned about the noise arising from piling works carried out before 7am and at around 11pm at the construction site adjacent to the existing Lok Ma Chau MTR Station.                  | <u>Contract No.: YL/2021/01</u><br><br>According to the interim report, the piling works were carried out with valid construction noise permit from 08:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to-work system) have been implemented on site.  | Interim report was submitted to EPD on 17 Nov 2022 |



| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                      | Details of Complaint  | Investigation Finding   | Status   |
|----------------|-------------------|-----------------|------------------------------------|---|---|--|
|                |                   |                 |                                    |   | Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment to minimize the noise generated from works and the impact to the nearby resident.   |  |
| COM-2022-10-03 | 28 October 2022   | EPD             | EPD File Ref.: N06/RN/00 023772-22 | The complainant concerned about the noise arising from percussive piling works carried out on 27 & 28 Oct 2022 in Lok Ma Chau Loop (at a work site near “落馬州河套區創科園地盤”)                            | <u>Contract No.: YL/2020/01</u><br><br>According to the interim report, no percussive piling works were carried out under Contract No. YL/2020/01 inside Lok Ma Chau Loop on 27 <sup>th</sup> and 28 <sup>th</sup> October 2022 according to per Condition 2.9 (d) of EP 477/2013/A.  | Interim report was submitted to EPD on 22 Nov 2022 |
| COM-2022-11-01 | 20 November 2022  | EPD             | EPD File Ref.: N07/RN/00 026174-22 | The complainant concerned about the noise arising from piling works carried out at around 7am to around 10pm at the construction site adjacent to the Lok Ma Chau minibus station (落馬州關口小巴士站旁地盤). | <u>Contract No.: YL/2021/01</u><br><br>According to the interim report, the piling works were carried out with valid construction noise permit from 09:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to-work system) have been implemented on site.<br><br>Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment and along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident.<br><br>In addition, the duration of potential noisy construction activities (e.g., core demouling and casing extraction) | Interim report was submitted to EPD on 5 Dec 2022  |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                       | Details of Complaint  | Investigation Finding   | Status   |
|----------------|-------------------|-----------------|-------------------------------------|---|---|--|
|                |                   |                 |                                     |   | were also minimized.  |  |
| COM-2022-12-01 | 4 December 2022   | EPD             | EPD File Ref.: N06/RN/00 027607-22) | The complainant alleged that: “... 打樁噪音造成困擾,情況已維持幾個星期,最初只係星期六下午,近兩星期日日朝早點前後就開始,到黃昏點幾6點先至停”. The complainant provided co-ordinate information (x=826305.0; y=842363.0) for reference.  | <p><u>Contract No.: YL/2020/01</u></p> <p>According to the interim report, no percussive piling works were carried out since the commencement of the Contract with reference to the site diary records.</p> <p>Refer to the coordinate information (x=826305.0; y=842363.0) provided by the complainant, the location of concerned is not within the works area under the Contract.</p> <p>Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract.</p> | Interim report was submitted to EPD on 22 Dec 2022 |
| COM-2022-12-01 | 8 December 2022   | EPD             | EPD File Ref.: N06/RN/00 028165-22) | The complainant alleged that there was percussive piling works carried out within the work site of Lok Ma Chau Loop, and commented that “落馬洲河套地盤打樁噪音問題,到目前仍然如是”. The complainant provided a video record of 7 Dec 2022 (taken at around 1500 hours) showing the suspected percussive piling work. The complainant provided co-ordinate information (x=826305.0; y=842363.0) | <p><u>Contract No.: YL/2020/01</u></p> <p>According to the interim report, no percussive piling works were carried out since the commencement of the Contract with reference to the site diary records.</p> <p>Refer to the coordinate information (x=826305.0; y=842363.0) provided by the complainant, the location of concerned is not within the works area under the Contract.</p> <p>Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract.</p> | Interim report was submitted to EPD on 22 Dec 2022 |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                     | Details of Complaint  | Investigation Finding  | Status   |
|----------------|-------------------|-----------------|-----------------------------------|---|--|--|
|                |                   |                 |                                   | for reference, and did not indicate where he/she was affected by the construction noise.  |  |  |
| COM-2023-02-01 | 15 February 2023  | EPD             | EPD File Ref.: N06/RN/0004267-23) | The complaint was lodged by a resident of Shenzhen City ‘...'附上落马洲工程夜间持续到现在还在工作的视频，轰隆声非常影响我们住在对面深圳居民的休息！希望能得到改善！不要在夜间扰民！谢谢！". Two short videos were attached in EPD's email dated 15 February 2023. | <p><u>Contract No.: YL/2021/01</u></p> <p>According to the interim report, piling works were carried out by the Contractor from 09:00 to 23:00 with valid construction noise permit under Contract YL/2021/01 of the Public Transport Interchange of Lok Ma Chau MTR Station.</p> <p>Noise monitoring was conducted for works during the restricted hours and no exceedance was recorded. The duration of working time for core demoulding and casting extraction were also minimized in order to reduce noise levels. Acoustic canvas sheets were installed to enclose the engine of used PME and deployed along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident.</p> <p>For enhancement, a 3m high noise barrier was installed next the rotary drilling rig on 15 February 2023. All night works were reviewed and suspended until 19 February 2023.</p> | Interim report was submitted to EPD on 24 Feb 2023 |
| COM-2023-03-01 | 3 March 2023      | EPD             | EPD File Ref.: N06/RN/00          | The complaint was lodged by a resident of Shenzhen City “附件有视频，拍不到做工  | <p><u>Contract No.: YL/2021/01</u></p> <p>According to the interim report, the piling works were</p>   | Interim report was submitted to EPD on 17          |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No.            | Details of Complaint   | Investigation Finding   | Status                                    |
|----------------|-------------------|-----------------|--------------------------|--|---|---|
|                |                   |                 | 006284 23                | 程，但机器的轰隆声从早到晚，即使现在 22:24 分还在热火朝天的工作中！孩子和老人都需要休息，特别是老人，这种声音让他们已经很久没能早点休息！！！望能解决！或者可否告知什么时候工程能结束？ A short video was attached in EPD's email on 8 <sup>th</sup> March 2023. | <p>carried out from 09:00 to 23:00 with valid construction noise permit under Contract YL/2021/01 at the Public Transport Interchange of Lok Ma Chau MTR Station. Other than the piling works, there were no construction works undertaken by Contract YL/2021/01 on that night. Noise source was recorded in the short video provided by the complaint. However, the noise source had yet to be ascertained.</p> <p>Since the commencement of the contract, Permit to Work (PTW) System for construction works undertaking during restricted hours has been implemented. PMEs used were followed the granted CNP as well as the condition(s) stipulated in CNP were fulfilled.</p> <p>In addition, noise monitoring was conducted for works during the restricted hours, and no exceedance was recorded.</p> <p>Acoustic canvas sheets were installed to enclose the engine of used powered mechanical equipment. A 3m high noise barrier was installed next to the rotary drilling rig. For enhancement, another 3m high noise barrier was erected facing the residential blocks of Shenzhen City on 7 March 2023. The piling works at the site area near Lok Ma Chau MTR Station are tentatively scheduled to be completed in the first quarter of 2024.</p> | Mar 2023                                  |
| COM-2023-04-01 | 3 April 2023      | EPD             | EPD File Ref.: N06/RN/00 | The complaint was lodged by a resident of Shenzhen City "this site is still operating at   | <p><u>Contract No.: YL/2021/01</u></p> <p>According to the interim report, the piling works were</p>  | Interim report was submitted to EPD on 27 |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint   | Investigation Finding   | Status   |
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|          |                   |                 | 009011-23     | this time (10:15pm). It is not the first time it operates until this late but every single night since the work began. Last Sunday, it operated until 4pm”. A sound recording and phot were attached to the email. | <p>carried out from 08:00 to 19:00 on 2 April (Sunday) and 08:00 to 23:00 on 3 April with valid construction noise permit under Contract YL/2021/01 at the Public Transport Interchange of Lok Ma Chau MTR Station. Other than the piling works, there were no construction works undertaken for Contract YL/2021/01 during the aforementioned periods. The complaint included a sound recording that captured noise, but the source of the noise has not yet been determined.</p> <p>Since the commencement of the contract, Permit to Work (PTW) System for construction works undertaking during restricted hours has been implemented. Frontline supervisor and sub-contractors have to apply a PTW one working day in advance of the construction works during restricted hours and attend the pre-work briefing prior to commencing works on site to ensure strict compliance with the conditions of construction noise permit. No works and PMEs were allowed without the approved PTW form.</p> <p>Based on the Contractor’s record, two rotary drill rigs were operated as listed in Group L of granted CNP at 08:00 – 19:00 on 2 April (Sunday) and 19:00 – 23:00 on 3 April, and only one group (L) of the PME was used for carrying out construction work at the same time. PMEs used were followed the granted CNP as well as the condition(s) stipulated in CNP were fulfilled. The power generating part of the rotary drilling rigs was screened by</p> | Apr 2023 |

| Log Ref.       | Date of Complaint   | Complaint Route                   | Reference No.                      | Details of Complaint  | Investigation Finding   | Status |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |
|----------------|---|-----------------------------------|------------------------------------|---|---|--------|------------------|--|-------------------|---------------|---------------------------------------|-----------------------------------|-----------------------------------|-----------|---|--|--|--------------|--------------|--|-------------------|--|
|                |   |                                   |                                    |   | <p>acoustic barrier. In addition, noise monitoring was conducted for works during the restricted hours, and no exceedance was recorded. The duration of working time for core demoulding and casing extraction were also minimized in order to reduce noise levels. 3m high noise barriers were installed next to the rotary drilling rigs. Another noise barriers were erected facing the residential blocks of Shenzhen City.</p> <p>All construction works performed during the restricted hours were reviewed and no non-compliance was identified. A refresher training on a CNP compliance was provided to relevant frontline staff and workers on 20<sup>th</sup> April 2023.</p>  |        |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |
| COM-2023-05-01 | 8 May 2023  | EPD                               | EPD File Ref.: N06/RN/00 011649 23 | A public complaint was received by EPD on 8 May 2023 and supplemented a video taken by complainant on 14 May 2023. The complaint was lodged by a resident of Shenzhen City "地點，港鐵落馬洲站，樓下近巴士總站，福田口岸建築地盤剛，經常發出噪音，剛才星期六五月六號約15點40分，估計噪音超過100分配，另外經常在18:00後，及於星期日公眾假期等日子進行施工及發出噪音造成滋擾。" | <p><u>Contract No.: YL/2021/01</u></p> <p>According to the interim report, construction activities being undertaken nearby Lok Ma Chau MTR Station on 6 May (Saturday) and 14 May (Sunday) 2023 were:</p> <table border="1"> <thead> <tr> <th>Date</th> <th colspan="2">6 May (Saturday)</th> <th>14 May (Saturday)</th> </tr> </thead> <tbody> <tr> <td>Working Time:</td> <td>08:00 to 19:00 (Normal working hours)</td> <td>19:00 to 23:00 (Restricted hours)</td> <td>08:00 to 19:00 (Restricted hours)</td> </tr> <tr> <td>Location:</td> <td colspan="3">The Public Transport Interchange of Lok Ma Chau MTR Station</td> </tr> <tr> <td>Construction</td> <td colspan="2">Piling works</td> <td>Air lifting works</td> </tr> </tbody> </table> | Date   | 6 May (Saturday) |  | 14 May (Saturday) | Working Time: | 08:00 to 19:00 (Normal working hours) | 19:00 to 23:00 (Restricted hours) | 08:00 to 19:00 (Restricted hours) | Location: | The Public Transport Interchange of Lok Ma Chau MTR Station |  |  | Construction | Piling works |  | Air lifting works | Interim report was submitted to EPD on 17 May 2023 |
| Date           | 6 May (Saturday)  |                                   | 14 May (Saturday)                  |   |   |        |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |
| Working Time:  | 08:00 to 19:00 (Normal working hours)                       | 19:00 to 23:00 (Restricted hours) | 08:00 to 19:00 (Restricted hours)  |   |   |        |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |
| Location:      | The Public Transport Interchange of Lok Ma Chau MTR Station |                                   |                                    |   |   |        |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |
| Construction   | Piling works  |                                   | Air lifting works                  |   |   |        |                  |  |                   |               |                                       |                                   |                                   |           |   |  |  |              |              |  |                   |  |

| Log Ref.                | Date of Complaint       | Complaint Route  | Reference No. | Details of Complaint | Investigation Finding   | Status |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |
|-------------------------|-------------------------|--|---------------|----------------------|---|--------|--|-------|------------------|-------------------|-------------------------|----------------|----------------|-----------------------|---|---|------------|-------------------------|--|--|
|                         |                         |  |               |                      | <p>activities: <table border="1" style="display: inline-table; vertical-align: top;"><tr><td style="width: 150px; height: 15px;"></td><td style="width: 150px; height: 15px;"></td></tr></table></p> <p>The noise recorded in the video was considered not arising from Contract YL/2021/01.</p> <p>Since the commencement of the contract, Permit to Work (PTW) System for construction works undertaking during restricted hours has been implemented. No works and PME were allowed without the approved PTW form.</p> <p>PMEs used record</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Date:</td> <td style="width: 40%;">6 May (Saturday)</td> <td style="width: 40%;">14 May (Saturday)</td> </tr> <tr> <td>Time (restricted hours)</td> <td>19:00 to 23:00</td> <td>08:00 to 19:00</td> </tr> <tr> <td>Group of granted CNP:</td> <td>L</td> <td>M</td> </tr> <tr> <td>PMEs used:</td> <td>1 x Rotary drilling rig</td> <td>2 x De-senders<br/>2 x Mobile cranes<br/>2 x Air compressors</td> </tr> </table> <p>PMEs used were followed the granted CNP as well as the condition(s) stipulated in CNP were fulfilled. The power generating part of the rotary drilling rigs was screened by acoustic barrier. In addition, noise monitoring was conducted for works during the restricted hours, and no exceedance was recorded. The duration of working time for core demoulding and casing extraction were also minimized in order to reduce noise levels. A 3m high noise barrier were installed next to the rotary drilling rig. Another noise barriers were erected facing the residential</p> |        |  | Date: | 6 May (Saturday) | 14 May (Saturday) | Time (restricted hours) | 19:00 to 23:00 | 08:00 to 19:00 | Group of granted CNP: | L | M | PMEs used: | 1 x Rotary drilling rig | 2 x De-senders<br>2 x Mobile cranes<br>2 x Air compressors |  |
|                         |                         |  |               |                      |   |        |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |
| Date:                   | 6 May (Saturday)        | 14 May (Saturday)  |               |                      |   |        |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |
| Time (restricted hours) | 19:00 to 23:00          | 08:00 to 19:00   |               |                      |   |        |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |
| Group of granted CNP:   | L                       | M  |               |                      |   |        |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |
| PMEs used:              | 1 x Rotary drilling rig | 2 x De-senders<br>2 x Mobile cranes<br>2 x Air compressors |               |                      |   |        |  |       |                  |                   |                         |                |                |                       |   |   |            |                         |  |  |



| Log Ref.       | Date of Complaint | Complaint Route | Reference No.                      | Details of Complaint  | Investigation Finding   | Status  |
|----------------|-------------------|-----------------|------------------------------------|---|---|---|
|                |                   |                 |                                    |   | <p>blocks of Shenzhen City. The generators used on site were Quality Powered Mechanical Equipment (QPME).</p> <p>According to the calculation by the Contractor during the non-restricted hour on 6 May (Saturday), the mitigated noise level at the nearest residential building in Shenzhen based on the SWL of PMEs used were below 75dB(A).</p> <p>All construction works performed during the restricted hours were reviewed and no non-compliance was identified. A refresher training on a CNP compliance was provided to relevant frontline staff and workers on 12 May 2023. The deployment of the temporary noise barriers would be reviewed from time to time to cater for the changing site conditions.</p> |   |
| COM-2023-10-01 | 2 October 2023    | EPD             | EPD File Ref.: N07/RN/00 023409-23 | EPD received a public complaint on 2 October 2023 regarding flytipping of C&D wastes from a construction site. “街燈 BD1944、BD1308附近有地盤非法傾倒建築物料(紅毛泥)到河流中，導致河中魚類死亡”。 | <p><u>Contract No.: YL/2020/02</u></p> <p>According to the interim report, the following investigation was conducted:</p> <ol style="list-style-type: none"> <li>1. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, Mr. Calvin So, carried out site inspection at Lok Ma Chau works area on 4 October 2023. During the inspection, no dead fish and construction waste was found in the nullah. Three water samples were taken by EPD (two from the nullah near street lamp post nos. BD1944 and BD1308 respectively, one from the wastewater treatment facility at Fu Tai works area)</li> </ol>  | Interim report was submitted to EPD on 6 Nov 2023 |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint | Investigation Finding  | Status |
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|          |                   |                 |               |                      | <p>during the inspection. No adverse comment was received from EPD during the inspection regarding the captioned.</p> <ol style="list-style-type: none"> <li>2. A joint site investigation amongst ET, IEC, AECOM and CRBC was carried out on 4 October 2023. No dead fish and deposition of construction waste (e.g. cement) was identified at the nullahs on both sides of Lok Ma Chau Road. Wastewater generated near Fu Tai works area was properly treated prior to discharge to the designated discharge point in accordance with the Discharge Licence (Licence Number: WT10001592-2023). No inert material was placed near the nullah in Fu Tai works area. No chemical is discharged to the existing Chau Tau nullah.</li> <li>3. The construction waste in Fu Tai works area was free from the nullah, sandbags were provided at the working area near the nullah. The inert construction waste (e.g. soil) generated in Fu Tai works area was transported to Reedbed works area for further arrangement, such as temporary storage for future use and disposal at designated Public Fill Bank.</li> <li>4. The construction activities conducted from 25 September 2023 to 6 October 2023 in Fu Tai works area are the following: <ol style="list-style-type: none"> <li>(a) RCD drilling (Involving driven of steel casing into rock head level instead of applying bentonite, wastewater was collected and recycled by set of sedimentation tanks,</li> </ol> </li> </ol> |        |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint | Investigation Finding   | Status |
|----------|-------------------|-----------------|---------------|----------------------|---|--------|
|          |                   |                 |               |                      | <p>therefore no wastewater was leaked to nearby nullah.)</p> <ul style="list-style-type: none"> <li>(b) RCD airlifting (Wastewater was collected by set of sedimentation tanks and discharged after treatment of Wetsep to discharge point)</li> <li>(c) Concreting by tremie pipe without applying of curing compound (Wastewater was displaced by concrete within the steel casing and discharged after treatment of Wetsep to discharge point without any overflow)</li> </ul> <p>The construction waste generated was transported to Reedbed works area for further arrangement. The construction activities conducted at the works area opposite to street lamp post no. BD1308 is unlikely to cause any effect to the nullah next to street lamp post no. BD1944 as nullah system is already diverted to different stream next to Chau Tau Ventilation Building. Therefore, the construction activities adjacent to the existing Chau Tau nullah were discrete from the downstream nullah.</p> <p>5. Mitigation measures taken on wastewater pollution control and waste management:</p> <ul style="list-style-type: none"> <li>(a) Wastewaste treatment facilities were employed in Fu Tai Area. Wastewater generated in the area was treated properly in accordance with the Discharge Licence (Licence Number: WT10001592-2023)</li> </ul> |        |

| Log Ref.       | Date of Complaint | Complaint Route | Reference No. | Details of Complaint  | Investigation Finding   | Status                                    |
|----------------|-------------------|-----------------|---------------|---|---|---|
|                |                   |                 |               |   | <p>before discharge to the designated discharge point since the Discharge Licence (Licence Number: WT10001592-2023) was granted (early September 2023).</p> <p>(b) The nullah near Fu Tai works area is free from construction material, sandbags were provided at the working area near the nullah since the commencement of works in Fu Tai works area.</p> <p>(c) CCTVs were installed along the nullah in Lok Ma Chau Road for monitoring since August 2023. The site condition of the nullah in Lok Ma Chau Road can be seen at real time and recorded through the CCTVs. No dead fish and construction waste was found in the nullah during the period of 25 September 2023 to 4 October 2023. No incident of oil / chemical spillage at Fu Tai Site area.</p> <p>6. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance and Waste Disposal Ordinance. Based on the investigation result, it is considered that the complaint was not related to Contract No. YL/2020/02.</p> |   |
| COM-2023-12-01 | 4 December 2023   | EPD             | N/A           | EPD received a public complaint on 4 December 2023 regarding to muddy | <p><u>Contract No.: YL/2020/02</u></p> <p>According to the interim report, the following</p>  | Interim report was submitted to EPD on 19 |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint   | Investigation Finding  | Status   |
|----------|-------------------|-----------------|---------------|--|--|----------|
|          |                   |                 |               | <p>water and dust nuisance from a construction site. "落馬洲潘屋村口有一個地盤排放出泥水及造成大塵滋擾。這地盤是鄰近村民等車的地方，可以影響到出入的老人。" The complainant made a request that "dust screens" should be set up at the construction area near "the public light bus stand" alleged as temporary nature for Pun Uk Tsuen.</p> | <p>investigation was conducted:</p> <ol style="list-style-type: none"> <li>1. Excavation and site clearance was conducted at the concerned site area.</li> <li>2. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, Mr. Calvin So and RSS, carried out site inspection at Pun Uk Tsuen works area on 5 December 2023. During the inspection, no muddy water and dust nuisance were found at the concerned site area. No adverse comment was received from EPD during the inspection under the subject complaint.</li> <li>3. Mitigation measures took on site for wastewater pollution control and dust nuisance before receiving the complaint:               <ol style="list-style-type: none"> <li>(a) Sandbags have been placed along the boundary of the works area to prevent wastewater to be ran-off from the site.</li> <li>(b) Tarpaulin sheet has been provided for the exposed slopes to minimize the dust nuisance to nearby pedestrians.</li> </ol> </li> <li>4. Additional mitigation measures took on site to further strengthen the wastewater pollution control and dust nuisance after the complaint:</li> </ol> | Dec 2023 |

| Log Ref.      | Date of Complaint | Complaint Route | Reference No.                       | Details of Complaint  | Investigation Finding   | Status   |
|---------------|-------------------|-----------------|-------------------------------------|---|---|--|
|               |                   |                 |                                     |   | <p>(a) Double layer of sandbags have been placed along the work area to prevent wastewater to be ran-off from the site.</p> <p>(b) Dust screen has been erected to minimize dust nuisance to nearby pedestrians.</p> <p>5. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance and Air Pollution Control Ordinance. Base on the investigation result, it is considered that the complaint was not related to Contract No. YL/2020/02.</p>   |  |
| COM-2024-1-01 | 14 January 2024   | EPD             | EPD File Ref.: N06/RN/00 001389-24) | An environmental complaint has been received by EPD regarding construction works of the Lok Ma Chau Loop Project (Environmental Permit No. EP-477/2013/B). The complainant alleged that there was a construction noise generated from percussive piling works around the work site of Central Government – Aided Emergency Hospital. The details of the complaint according to EPD email dated 16 January 2024 is a | <p><u>Contract No.: YL/2020/01</u></p> <p>According to the interim report, the following investigation was conducted:</p> <ol style="list-style-type: none"> <li>1. Percussive piling works is not required under YL/2020/01, no percussive piling works were carried out since the commencement of the Contract and no site activities after 20:00 on 12 January 2024.</li> <li>2. A site inspection conducted on 18 January 2024, by EPD SEPI, Mr Arthur Lau and his team, accompanied by representatives from JV at works area of Contract YL/2020/01. During the</li> </ol> | Interim report was submitted to EPD on 7 February 2024 |

| Log Ref.      | Date of Complaint | Complaint Route | Reference No.                     | Details of Complaint  | Investigation Finding  | Status  |
|---------------|-------------------|-----------------|-----------------------------------|---|--|---|
|               |                   |                 |                                   | follows, “投訴人投訴落馬洲福田口岸中央援港醫院附近有工程噪音滋擾事宜，投訴人表示在1月12日晚上九點半依然有打樁的聲音，嚴重滋擾投訴人休息。要求部問跟進和處理個案”。                                      | inspection, no piling works was observed. No adverse comment was received from EPD during the inspection regarding the caption.<br><br>3. Based on above information and investigation findings, the noise complaint is not related to the construction works of the Contract YL/2020/01.  |   |
| COM-2024-2-01 | 2 February 2024   | EPD             | EPD File Ref.: N06/RN/0003501-24) | EPD received a public complaint on 2 February 2024 " 2024年1月30經過，發現比以往更多白泥滲入渠道，應該由附近地盤排水導致，之前已有少量白泥滲入，當日經過直頭全白，此地盤公司已多次非法排污。" | <u>Contract No.: YL/2020/02</u><br><br>According to the interim report, the following investigation was conducted:<br><br>1. Bored piling works has been conducted at the concerned site area since 30 Dec 2023.<br><br>2. Mitigation measures taken on wastewater pollution control:<br><br>• Wastewater treatment facilities were employed in Fu Tai Area. Wastewater generated in the area was treated properly in accordance with Discharge Licence (Licence Number: WT10001592-2023) before discharge to the designated discharge point since the Discharge Licence (Licence Number: WT10001592-2023) was granted (early September 2023). | Interim report was submitted to EPD on 27 February 2024 |



| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint | Investigation Finding   | Status |
|----------|-------------------|-----------------|---------------|----------------------|---|--------|
|          |                   |                 |               |                      | <ul style="list-style-type: none"> <li>• Designated personnel has been assigned to carry out regular maintenance for Wastewater treatment facilities at all time to ensure wastewater is treated properly prior to discharge.</li> <li>• Provision of wheel-washing bay for vehicles leaving site and sump pit has been constructed for collection of wastewater.</li> <li>• Wastewater treatment facilities including sump pits, sedimentation tanks and Wetsep have been provided on site to treat, reuse and discharge any wastewater generated.</li> <li>• Provision of sandbags to prevent surface run-off from entering nullah and public drainage system.</li> </ul> <p>3. A site inspection of the nullah and the concerned works area between RSS and CRBC was carried out on 3 February 2024. No discharge of water, disposal of materials and overflow into the nullah from the works area was observed. Temporary wastewater treatment facilities such as WetSep and connecting pipes were observed to be functioned properly.</p> <p>4. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, Mr. Calvin So and RSS, carried out site</p> |        |

| Log Ref.      | Date of Complaint | Complaint Route | Reference No.                       | Details of Complaint  | Investigation Finding   | Status  |
|---------------|-------------------|-----------------|-------------------------------------|---|---|---|
|               |                   |                 |                                     |   | <p>inspection at Fu Tai Carpark works area on 8 February 2024. During the inspection, no untreated wastewater was found discharging to public drain at the concerned site area. No adverse comment was received from EPD during the inspection under the subject complaint.</p> <p>5. Nevertheless, the contractor will continue to comply with the Water Pollution Control Ordinance. Holistic review of temporary drainage system including sedimentation tanks, cut-off drain, bunding and sump pits has been conducted to enhance the treatment capability of wastewater on site.</p> |   |
| COM-2024-5-01 | 24 May 2024       | EPD             | EPD File Ref.: N06/RN/00 014224-24) | EPD received a public complaint on 24 May 2024 "投訴燈柱 BD0942 附近的馬路工程將污水直接排放到河道，要求環保署跟進及回覆。 | <p><u>Contract No.: YL/2020/02</u></p> <p>The complaint was received by the Contractor on 4 June 2024. According to the interim report, the following investigation was conducted:</p> <ol style="list-style-type: none"> <li>1. Drainage works and road works has been conducted at the concerned site area since April 2024.</li> <li>2. Mitigation measures taken on wastewater pollution control: <ul style="list-style-type: none"> <li>• Wastewater treatment facilities were employed in Fu Tai Area (Next to Chau Tau West Road).</li> </ul> </li> </ol>                          | Interim report was submitted to EPD on 24 June 2024 |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint | Investigation Finding   | Status |
|----------|-------------------|-----------------|---------------|----------------------|---|--------|
|          |                   |                 |               |                      | <p>Wastewater generated in the area was treated properly in accordance with the Discharge Licence (Licence Number: WT10001592-2023) before discharge to the designated discharge point since the Discharge Licence (Licence Number: WT10001592-2023) was granted (early September 2023). Routine self-monitoring of the effluent discharge has been carried out. According to the latest lab test result of effluent discharge at the wastewater treatment facility as attached, the effluent discharge did not exceed the limits as stated in the Licence.</p> <ul style="list-style-type: none"> <li>• Designated personnel has been assigned to carry out regular maintenance for Wastewater treatment facilities at all time to ensure wastewater is treated properly prior to discharge.</li> <li>• Concrete bund had been constructed to prevent the unaffected upstream water from flowing into the site area and water pipe had been placed to bypass the unaffected upstream water.</li> <li>• Wastewater treatment facilities including sump pits, sedimentation tanks and Wetsep have been provided on site to treat, reuse and discharge any wastewater generated. The wastewater treatment facilities has been indicated in the temporary site drainage plan which is</li> </ul> |        |

| Log Ref.      | Date of Complaint | Complaint Route | Reference No.                       | Details of Complaint  | Investigation Finding   | Status  |
|---------------|-------------------|-----------------|-------------------------------------|---|---|---|
|               |                   |                 |                                     |   | <p>incorporated in the Layout Plan.</p> <ol style="list-style-type: none"> <li>3. A site inspection of the nullah and the concerned works area between ET, IEC, RSS and CRBC was carried out on 5 June 2024. As observed, most of the works areas were hard-paved. No discharge of wastewater and overflow into the nullah from the works area was observed.</li> <li>4. EPD Ms. Leung and her team, accompanied by CRBC Environmental Officer, Mr. Calvin So and RSS, carried out site inspection at Lok Ma Chau Road works area on 12 June 2024. During the inspection, no untreated wastewater was found discharging to public drain at the concerned site area. No adverse comment was received from EPD during the inspection under the subject complaint.</li> <li>5. Base on the investigation result, it is considered that the complaint was not related to Contract No. YL/2020/02.</li> <li>6. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance.</li> </ol> |   |
| COM-2024-6-01 | 2 June 2024       | EPD             | EPD File Ref.: N06/RN/00 014984-24) | EPD received a public complaint on 2 June 2024 " 投訴人於 2024 年 5 月 31 日晚上 10 時在落馬州巴 | <p><u>Contract No.: YL/2021/01</u></p> <p>The complaint was received by the Contractor on 28 June 2024. The Contractor took immediately action with findings shown below:</p>   | Interim report was submitted to EPD on 19 July 2024 |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint  | Investigation Finding  | Status |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
|----------|-------------------|-----------------|---------------|---|--|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|------|--|--|--|--|--|--|--|----|------|-----|-----|-----|------|--|--|--|--|--|--|--|----|----|-----|-----|-----|-----|--|--|--|--|--|--|--|----|------|--|-----|------|-----|--|--|--|--|--|--|--|----|-----|--|-----|--|------|--|--|--|--|--|--|--|--|
|          |                   |                 |               | <p>士站乘搭的士，途徑新界的士站及九巴 B1 線巴士站中間的一個地盤有黃泥水湧出街道，投訴人表示已經向警方報案，並已拍攝照片及相片，要求部門跟進。”</p> | <p><b>Weather:</b><br/>                     Based on HKO’s record, Typhoon No. 3 (Typhoon - Maliksi) was issued on 31 May 2024 from 1640 hrs to 1640 hrs on 1 June 2024, and Amber Rainstorm Warning was issued on 31 May 2024 from 1530 hrs to 1700 hrs. The daily rainfall distribution records at Lok Ma Chau were listed below.</p> <p>Daily Total Rainfall (mm) at Lok Ma Chau 2024</p> <table border="1"> <thead> <tr> <th></th> <th>Jan</th> <th>Feb</th> <th>Mar</th> <th>Apr</th> <th>May</th> <th>Jun</th> <th>Jul</th> <th>Aug</th> <th>Sep</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> </tr> </thead> <tbody> <tr> <td>27</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>2.0</td> <td>12.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>28</td> <td>0.5#</td> <td>0.0</td> <td>0.0</td> <td>9.0</td> <td>14.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>29</td> <td>**</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>0.6#</td> <td></td> <td>0.0</td> <td>10.0</td> <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>31</td> <td>0.0</td> <td></td> <td>0.0</td> <td></td> <td>48.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>JV carried out site investigation, there was no construction works carried out at the time of complaint. The source of leaking muddy water was considered as the heavy rainfall.</p> <p><b>Site condition:</b><br/>                     At the boundary of construction site, sandbags were placed along the plastic traffic barrier. The site entrance has been hard-paved. Water pumps were installed and connected to the wastewater treatment facilities to ensure all the surface runoff is properly being diverted and collected to the wastewater treatment facilities. Wastewater treatment facility have</p> |        | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | 27 | 0.5 | 0.0 | 0.0 | 2.0 | 12.5 |  |  |  |  |  |  |  | 28 | 0.5# | 0.0 | 0.0 | 9.0 | 14.5 |  |  |  |  |  |  |  | 29 | ** | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  | 30 | 0.6# |  | 0.0 | 10.0 | 1.0 |  |  |  |  |  |  |  | 31 | 0.0 |  | 0.0 |  | 48.5 |  |  |  |  |  |  |  |  |
|          | Jan               | Feb             | Mar           | Apr   | May  | Jun    | Jul | Aug | Sep | Oct | Nov | Dec |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
| 27       | 0.5               | 0.0             | 0.0           | 2.0   | 12.5   |        |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
| 28       | 0.5#              | 0.0             | 0.0           | 9.0   | 14.5   |        |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
| 29       | **                | 0.0             | 0.0           | 0.0   | 0.0  |        |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
| 30       | 0.6#              |                 | 0.0           | 10.0  | 1.0  |        |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |
| 31       | 0.0               |                 | 0.0           |   | 48.5   |        |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |      |  |  |  |  |  |  |  |    |      |     |     |     |      |  |  |  |  |  |  |  |    |    |     |     |     |     |  |  |  |  |  |  |  |    |      |  |     |      |     |  |  |  |  |  |  |  |    |     |  |     |  |      |  |  |  |  |  |  |  |  |

| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint | Investigation Finding  | Status |
|----------|-------------------|-----------------|---------------|----------------------|--|--------|
|          |                   |                 |               |                      | <p>been provided onsite and operated normally.</p> <ul style="list-style-type: none"> <li>• EPD visited on 25 June 2024 to follow up the complaint and wastewater treatment facilities were checked with no comment.</li> <li>• Onsite investigation carried out among AECOM and JV on 28 June 2024. Observed that the additional sump pit and geotextiles should be provided and installed at the gully.</li> <li>• Hard-paving of the site entrances and installation of geotextile at the gully near the public area.</li> <li>• Review site drainage and additional sump pit location for wastewater collection. The location of sedimentation tank was changed nearby the additional sump pit.</li> <li>• Additional sump pit was provided with automatic water pump connected to waste water treatment facility was applied on site.</li> <li>• Check all water pipes were closed before leaving to ensure no leakage during the night time.</li> <li>• Sandbags were placed to direct wastewater to additional sump pit.</li> <li>• Sandbags were placed along the water barrier.</li> <li>• Check and clean the drainage system regularly.</li> <li>• Review the temporary drainage plan on a regular basis.</li> <li>• Ensure the lab test result of the effluent discharge at the wastewater treatment facility shows</li> </ul> |        |

| Log Ref.      | Date of Complaint | Complaint Route | Reference No.                       | Details of Complaint   | Investigation Finding   | Status  |
|---------------|-------------------|-----------------|-------------------------------------|--|---|---|
|               |                   |                 |                                     |  | <p>compliance with the approved discharge license</p> <ul style="list-style-type: none"> <li>• Conduct a toolbox training of waste water discharge to workers.</li> <li>• The exposed site area has been covered with tarpaulin sheet.</li> </ul>   |   |
| COM-2024-7-01 | 24 Jun 2024       | EPD             | EPD File Ref.: N06/RN/00 017057-24) | <p>EPD received a public complaint on 24 June 2024 and referred to CEDD, AECOM, IEC and ET on 17 July 2024. The complaint was regarding construction works of the Lok Ma Chau Loop Project (Environmental Permit No. EP-477/2013/B). The complainant alleged that there was a construction noise generated from the construction site near the Ha Wan Tsuen Road. The details of the complaint is as follows. "元朗下灣村居民黃小姐投訴近來每個星期日 07:00-22:00，下灣村有地盤進行工</p> | <p><u>Contract No.: YL/2020/01</u></p> <p>The Contractor received complaint on 19 July 2024 and carried out complaint investigation, with details and findings shown below:</p> <p><b>Construction Activities being undertaken inside Western Connection Road (WCR) under Contract YL/2020/01;</b></p> <p>The site diary (16, 23 June 2024) shows that no noisy work was arranged on previous Sunday 07:00 – 22:00 in WCR.</p> <p>In accordance with current Construction Noise Permit (CNP) condition, the site is located in a non-designated area and Powered Mechanical Equipment (PME) applied in CNP can be used at WCR. Permit-to-work was also applied by subcontractor.</p> <p>The complainant did not indicate where he/she was affected by the construction noise.</p> | Interim report was submitted to EPD on 15 August 2024 |



| Log Ref. | Date of Complaint | Complaint Route | Reference No. | Details of Complaint   | Investigation Finding  | Status |
|----------|-------------------|-----------------|---------------|--|--|--------|
|          |                   |                 |               | <p>程，傳出噪音，要求環保署跟進及回覆。另她表示地盤持有環保署噪音許證 (EP731-RN/10004943)，她不明白為何本署會批出許可證。".</p> | <p>A site inspection was conducted on June 26, 2024, by EPD, Ms. Fanny Leung and her team, accompanied by representatives from JV at works area of Contract YL/2020/01. During the inspection, no noisy works was observed and no adverse comment was received from EPD during the inspection. Construction Noise Permit (GW-RN0642-24) have been obtained with effective date from 15 June 2024 to 14 September 2024. Furthermore, temporary noise barrier was erected near the noise sensitive receivers.</p> <p>Based on above information and investigation findings, the noise complaint is not application to the construction works of the Contract YL/2020/01.</p> |        |

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**APPENDIX Q  
SUMMARY OF SUCCESSFUL  
PROSECUTION**

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**Appendix Q - Summary of Successful Prosecution**

| <b>Date of Successful Prosecution</b> | <b>Details of the Successful Prosecution</b> | <b>Status</b> | <b>Follow Up</b> |
|---------------------------------------|--|---------------|------------------|
| --                                    | --   | --            | --               |

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**APPENDIX R**  
**ECOLOGICAL MONITORING RESULTS**

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## Appendix R1 – Avifauna Monitoring Results (Pond 12)

| Common Name                 | Species Name                     | Chinese Name | Hong Kong Status | Conservation Status | Date   | 2 September 2024    |
|-----------------------------|----------------------------------|--------------|------------------|---------------------|--|---------------------|
|                             |                                  |              |                  |                     | Weather Condition  | Sunny               |
|                             |                                  |              |                  |                     | Abundance  |                     |
|                             |                                  |              |                  |                     | Maximum count of bird species recorded<br>(Point Count – 15 mins interval) |                     |
|                             |                                  |              |                  |                     | Before Construction  | During Construction |
| Azure-winged Magpie         | <i>Cyanopica cyanus</i>          | 灰喜鵲          | R                |                     |  | 1                   |
| Barn Swallow                | <i>Hirundo rustica</i>           | 家燕           | PM, Sv           |                     |  | 1                   |
| Black Kite                  | <i>Milvus migrans</i>            | 黑鳶           | R, WV            | Cap.586, LC         | 1  | 1                   |
| Black-collared Starling     | <i>Gracupica nigricollis</i>     | 黑領棕鳥         | R                |                     | 1  | 2                   |
| Chinese Pond Heron          | <i>Ardeola bacchus</i>           | 池鷺           | R                | PRC(RC)             |  | 1                   |
| Crested Myna                | <i>Acridotheres cristatellus</i> | 八哥           | R                |                     | 1  | 2                   |
| Grey Heron                  | <i>Ardea cinerea</i>             | 蒼鷺           | WV               | PRC                 |  | 1                   |
| Little Egret                | <i>Egretta garzetta</i>          | 小白鷺          | R                | PRC(RC)             | 1  |                     |
| Plain Prinia                | <i>Prinia inornata</i>           | 純色鷓鴣         | R                |                     | 1  | 4                   |
| Red-whiskered Bulbul        | <i>Pycnonotus jocosus</i>        | 紅耳鶇          | R                |                     | 2  | 2                   |
| Spotted Dove                | <i>Streptopelia chinensis</i>    | 珠頸斑鳩         | R                |                     | 1  | 3                   |
| White-shouldered Starling   | <i>Sturnia sinensis</i>          | 灰背棕鳥         | M, WV, Sv        | LC                  |  | 8                   |
| Yellow Bittern              | <i>Ixobrychus sinensis</i>       | 黃葦鶇          | USV, UPM         | (LC)                |  | 1                   |
| Yellow-bellied Prinia       | <i>Prinia flaviventris</i>       | 黃腹鷓鴣         | R                |                     | 1  | 5                   |
| <b>Total No. of Species</b> |                                  |              |                  |                     | <b>8</b>   | <b>13</b>           |

| Common Name                  | Species Name | Chinese Name | Hong Kong Status | Conservation Status | Date   | 2 September 2024    |
|------------------------------|--------------|--------------|------------------|---------------------|--|---------------------|
|                              |              |              |                  |                     | Weather Condition  | Sunny               |
|                              |              |              |                  |                     | Abundance  |                     |
|                              |              |              |                  |                     | Maximum count of bird species recorded<br>(Point Count – 15 mins interval) |                     |
|                              |              |              |                  |                     | Before Construction  | During Construction |
| <b>No. of Birds Recorded</b> |              |              |                  |                     | <b>9</b>   | <b>32</b>           |

| Common Name                  | Species Name                     | Chinese Name | Hong Kong Status | Conservation Status | Date   | 9 September 2024    |
|------------------------------|----------------------------------|--------------|------------------|---------------------|--|---------------------|
|                              |                                  |              |                  |                     | Weather Condition  | Sunny               |
|                              |                                  |              |                  |                     | Abundance  |                     |
|                              |                                  |              |                  |                     | Maximum count of bird species recorded<br>(Point Count – 15 mins interval) |                     |
|                              |                                  |              |                  |                     | Before Construction  | During Construction |
| Black Kite                   | <i>Milvus migrans</i>            | 黑鳶           | R, WV            | Cap.586, LC         | 1  |                     |
| Black-collared Starling      | <i>Gracupica nigricollis</i>     | 黑領椋鳥         | R                |                     |  | 3                   |
| Crested Myna                 | <i>Acridotheres cristatellus</i> | 八哥           | R                |                     |  | 3                   |
| Plain Prinia                 | <i>Prinia inornata</i>           | 純色鷓鴣         | R                |                     | 2  | 3                   |
| Grey Heron                   | <i>Ardea cinerea</i>             | 蒼鷺           | WV               | PRC                 | 1  | 1                   |
| Spotted Dove                 | <i>Streptopelia chinensis</i>    | 珠頸斑鳩         | R                |                     | 1  | 5                   |
| White-throated Kingfisher    | <i>Halcyon smyrnensis</i>        | 白胸翡翠         | R                | (LC)                | 1  | 1                   |
| Yellow Bittern               | <i>Ixobrychus sinensis</i>       | 黃葦鴉          | USV, UPM         | (LC)                |  | 1                   |
| Yellow-bellied Prinia        | <i>Prinia flaviventris</i>       | 黃腹鷓鴣         | R                |                     | 1  | 1                   |
| <b>Total No. of Species</b>  |                                  |              |                  |                     | <b>6</b>   | <b>8</b>            |
| <b>No. of Birds Recorded</b> |                                  |              |                  |                     | <b>7</b>   | <b>18</b>           |

| Common Name                  | Species Name                     | Chinese Name | Hong Kong Status | Conservation Status | Date   | 16 September 2024   |
|------------------------------|----------------------------------|--------------|------------------|---------------------|--|---------------------|
|                              |                                  |              |                  |                     | Weather Condition  | Cloudy              |
|                              |                                  |              |                  |                     | Abundance  |                     |
|                              |                                  |              |                  |                     | Maximum count of bird species recorded<br>(Point Count – 15 mins interval) |                     |
|                              |                                  |              |                  |                     | Before Construction  | During Construction |
| Black-collared Starling      | <i>Gracupica nigricollis</i>     | 黑領棕鳥         | R                |                     | 2  | 2                   |
| Chinese Pond Heron           | <i>Ardeola bacchus</i>           | 池鷺           | R                | PRC(RC)             |  | 1                   |
| Crested Myna                 | <i>Acridotheres cristatellus</i> | 八哥           | R                |                     | 2  |                     |
| Greater Coucal               | <i>Centropus sinensis</i>        | 褐翅鴉鵂         | R                | (VU)                | 1  |                     |
| Grey Heron                   | <i>Ardea cinerea</i>             | 蒼鷺           | WV               | PRC                 | 2  | 2                   |
| Oriental Magpie-Robin        | <i>Copsychus saularis</i>        | 鵲鴝           | R                |                     |  | 1                   |
| Plain Prinia                 | <i>Prinia inornata</i>           | 純色鷓鴣         | R                |                     | 1  | 5                   |
| Spotted Dove                 | <i>Streptopelia chinensis</i>    | 珠頸斑鳩         | R                |                     |  | 4                   |
| White Wagtail                | <i>Motacilla alba</i>            | 白鶺鴒          | PM, WV           |                     |  | 2                   |
| White-throated Kingfisher    | <i>Halcyon smyrnensis</i>        | 白胸翡翠         | R                | (LC)                | 1  | 1                   |
| Yellow-bellied Prinia        | <i>Prinia flaviventris</i>       | 黃腹鷓鴣         | R                |                     | 1  | 2                   |
| <b>Total No. of Species</b>  |                                  |              |                  |                     | <b>7</b>   | <b>9</b>            |
| <b>No. of Birds Recorded</b> |                                  |              |                  |                     | <b>10</b>  | <b>20</b>           |



| Common Name                  | Species Name                     | Chinese Name | Hong Kong Status | Conservation Status | Date   | 23 September 2024   |
|------------------------------|----------------------------------|--------------|------------------|---------------------|--|---------------------|
|                              |                                  |              |                  |                     | Weather Condition  | Rainy               |
|                              |                                  |              |                  |                     | Abundance  |                     |
|                              |                                  |              |                  |                     | Maximum count of bird species recorded<br>(Point Count – 15 mins interval) |                     |
|                              |                                  |              |                  |                     | Before Construction  | During Construction |
| Black Kite                   | <i>Milvus migrans</i>            | 黑鳶           | R, WV            | Cap.586, LC         |  | 1                   |
| Crested Myna                 | <i>Acridotheres cristatellus</i> | 八哥           | R                |                     | 4  | 4                   |
| Greater Coucal               | <i>Centropus sinensis</i>        | 褐翅鴉鵂         | R                | (VU)                |  | 1                   |
| Plain Prinia                 | <i>Prinia inornata</i>           | 純色鷓鴣         | R                |                     | 1  | 3                   |
| Spotted Dove                 | <i>Streptopelia chinensis</i>    | 珠頸斑鳩         | R                |                     | 2  | 5                   |
| White Wagtail                | <i>Motacilla alba</i>            | 白鶺鴒          | PM, WV           |                     |  | 1                   |
| White-throated Kingfisher    | <i>Halcyon smyrnensis</i>        | 白胸翡翠         | R                | (LC)                | 1  |                     |
| Yellow Bittern               | <i>Ixobrychus sinensis</i>       | 黃葦鴉          | USV, UPM         | (LC)                |  | 1                   |
| Yellow-bellied Prinia        | <i>Prinia flaviventris</i>       | 黃腹鷓鴣         | R                |                     | 3  | 2                   |
| <b>Total No. of Species</b>  |                                  |              |                  |                     | <b>5</b>   | <b>8</b>            |
| <b>No. of Birds Recorded</b> |                                  |              |                  |                     | <b>11</b>  | <b>18</b>           |

## 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; Sv – Summer Visitor; UR – Uncommon 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](http://www.hkbiodiversity.net))

Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance

Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)

CR: Rare in China Red Data Book Status

VU: Vulnerable in IUCN Red List Status

(VU): Vulnerable in China Red Data Book Status

EN: Endangered in IUCN Red List Status

(EN): Endangered in China Red Data Book Status

NT: Near Threatened in IUCN Red List Status

CR: Critically Endangered in IUCN Red List Status

RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))

**Appendix R2 – Herpetofauna (Chinese Bullfrog) Survey Results**

| Common Name  | Species Name | Chinese Name | Date: 3 September 2024  |                                 |        |                |     |        |
|--|--------------|--------------|-------------------------|---------------------------------|--------|----------------|-----|--------|
|  |              |              | Weather Condition: Fine |                                 |        |                |     |        |
|  |              |              | Counts                  |                                 |        |                |     |        |
|  |              |              | Transect Walk           |                                 |        |                |     |        |
|  |              |              | Day Transect            |                                 |        | Night Transect |     |        |
|  |              |              | WAL                     | AFP                             | Others | WAL            | AFP | Others |
|  |              |              | Chinese Bullfrog        | <i>Hoplobatrachus rugulosus</i> | 虎紋蛙    | 0              | 0   | 0      |
| <p><u>Remarks:</u><br/>                     It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population.</p> |              |              |                         |                                 |        |                |     |        |

Note:

WAL – Wet Agricultural Land, AFP – Abandoned Fishpond

**Appendix R3 – Aquatic Fauna (Rose Bitterling) Survey Results**

| Common Name     | Species Name             | Chinese Name | Date: 5 <sup>th</sup> September 2024 |    |    |    |    |    |    |    |
|-----------------|--------------------------|--------------|--------------------------------------|----|----|----|----|----|----|----|
|                 |                          |              | Weather Condition: Rainy             |    |    |    |    |    |    |    |
|                 |                          |              | Counts                               |    |    |    |    |    |    |    |
|                 |                          |              | Location(s)                          |    |    |    |    |    |    |    |
|                 |                          |              | S1                                   | S2 | S3 | S4 | A1 | A2 | B1 | B2 |
| Rose Bitterling | <i>Rhodeus ocellatus</i> | 高體鯉鰻         | Direct Observation:                  |    |    |    |    |    |    |    |
|                 |                          |              | 0                                    | 0  | 0  | 0  | 2  | 6  | 0  | 0  |
|                 |                          |              | Sweep Netting:                       |    |    |    |    |    |    |    |
|                 |                          |              | 0                                    | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

# Appendix R4

**Service Contract No. WD/04/2020**  
**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**  
**Water Quality Monitoring Results on 06-Sep-24**

| Location | Weather Condition | Start Time | Temperature (°C) |         | pH    |         | Salinity ppt |         | DO Saturation (%) |         | Dissolved Oxygen (mg/L) |         | Turbidity(NTU) |         |
|----------|-------------------|------------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|
|          |                   |            | Value            | Average | Value | Average | Value        | Average | Value             | Average | Value                   | Average | Value          | Average |
| A1       | Rainy             | 13:56      | 29.7             | 29.7    | 6.9   | 6.9     | 0.1          | 0.1     | 42.4              | 42.1    | 3.2                     | 3.2     | 2.9            | 2.9     |
|          |                   |            | 29.7             |         | 6.9   |         | 0.1          |         | 41.7              |         | 3.2                     |         |                |         |
| A2       | Rainy             | 13:40      | 29.7             | 29.7    | 6.8   | 6.8     | 0.1          | 0.1     | 50.6              | 50.2    | 3.8                     | 3.8     | 3.3            | 3.3     |
|          |                   |            | 29.7             |         | 6.8   |         | 0.1          |         | 49.8              |         | 3.8                     |         |                |         |
| B1       | Rainy             | 13:33      | 29.3             | 29.3    | 7.1   | 7.1     | 0.1          | 0.1     | 58.5              | 58.4    | 4.5                     | 4.5     | 14.3           | 14.9    |
|          |                   |            | 29.3             |         | 7.1   |         | 0.1          |         | 58.3              |         | 4.5                     |         |                |         |
| B2       | Rainy             | 13:25      | 29.3             | 29.3    | 7.2   | 7.2     | 0.1          | 0.1     | 63.2              | 62.9    | 4.8                     | 4.8     | 14.1           | 14.1    |
|          |                   |            | 29.3             |         | 7.2   |         | 0.1          |         | 62.5              |         | 4.8                     |         |                |         |
| S1       | Rainy             | 14:03      | 28.9             | 28.9    | 6.9   | 6.9     | 0.1          | 0.1     | 80.7              | 80.6    | 6.2                     | 6.2     | 17.4           | 17.4    |
|          |                   |            | 28.9             |         | 6.9   |         | 0.1          |         | 80.5              |         | 6.2                     |         |                |         |
| S2       | Rainy             | 13:50      | 28.2             | 28.2    | 6.9   | 6.9     | 0.1          | 0.1     | 71.9              | 71.9    | 5.6                     | 5.6     | 17.4           | 17.4    |
|          |                   |            | 28.2             |         | 6.9   |         | 0.1          |         | 71.8              |         | 5.6                     |         |                |         |
| S3       | Rainy             | 13:11      | 27.9             | 27.9    | 7.4   | 7.4     | 0.1          | 0.1     | 66.5              | 66.4    | 5.2                     | 5.2     | 15.4           | 15.6    |
|          |                   |            | 27.9             |         | 7.4   |         | 0.1          |         | 66.2              |         | 5.2                     |         |                |         |
| S4       | Rainy             | 13:19      | 28.2             | 28.2    | 7.1   | 7.1     | 0.1          | 0.1     | 58.9              | 58.9    | 4.6                     | 4.6     | 12.9           | 13.0    |
|          |                   |            | 28.2             |         | 7.1   |         | 0.1          |         | 58.8              |         | 4.6                     |         |                |         |

**Service Contract No. WD/04/2020**  
**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**  
**Water Quality Monitoring Results on 09-Sep-24**

| Location | Weather Condition | Start Time | Temperature (°C) |         | pH    |         | Salinity ppt |         | DO Saturation (%) |         | Dissolved Oxygen (mg/L) |         | Turbidity(NTU) |         |
|----------|-------------------|------------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|
|          |                   |            | Value            | Average | Value | Average | Value        | Average | Value             | Average | Value                   | Average | Value          | Average |
| A1       | Sunny             | 17:34      | 31.0             | 31.0    | 7.0   | 7.0     | 0.1          | 0.1     | 57.7              | 57.6    | 4.3                     | 4.3     | 2.1            | 2.1     |
|          |                   |            | 31.0             |         | 7.0   |         | 0.1          |         | 57.5              |         | 4.3                     |         | 2.1            |         |
| A2       | Sunny             | 17:20      | 31.2             | 31.2    | 7.2   | 7.2     | 0.1          | 0.1     | 66.7              | 66.5    | 4.9                     | 4.9     | 2.8            | 2.8     |
|          |                   |            | 31.2             |         | 7.2   |         | 0.1          |         | 66.3              |         | 4.9                     |         | 2.8            |         |
| B1       | Sunny             | 17:14      | 30.9             | 31.0    | 7.4   | 7.4     | 0.0          | 0.0     | 134.8             | 134.8   | 10.0                    | 10.0    | 8.7            | 8.4     |
|          |                   |            | 31.0             |         | 7.4   |         | 0.0          |         | 134.7             |         | 10.0                    |         | 8.1            |         |
| B2       | Sunny             | 17:08      | 31.0             | 31.0    | 7.4   | 7.4     | 0.0          | 0.0     | 111.3             | 111.1   | 8.3                     | 8.3     | 8.3            | 8.4     |
|          |                   |            | 31.0             |         | 7.4   |         | 0.0          |         | 110.8             |         | 8.2                     |         | 8.4            |         |
| S1       | Sunny             | 17:41      | 30.5             | 30.5    | 7.4   | 7.4     | 0.1          | 0.1     | 136.1             | 136.1   | 10.2                    | 10.2    | 13.6           | 13.6    |
|          |                   |            | 30.5             |         | 7.4   |         | 0.1          |         | 136.1             |         | 10.2                    |         | 13.6           |         |
| S2       | Sunny             | 17:28      | 29.7             | 29.7    | 7.0   | 7.0     | 0.1          | 0.1     | 65.6              | 65.5    | 5.0                     | 5.0     | 27.1           | 27.0    |
|          |                   |            | 29.7             |         | 7.0   |         | 0.1          |         | 65.4              |         | 5.0                     |         | 26.9           |         |
| S3       | Sunny             | 16:54      | 29.7             | 29.7    | 7.3   | 7.3     | 0.1          | 0.1     | 44.6              | 44.6    | 3.4                     | 3.4     | 10.9           | 10.9    |
|          |                   |            | 29.7             |         | 7.3   |         | 0.1          |         | 44.5              |         | 3.4                     |         | 10.9           |         |
| S4       | Sunny             | 17:02      | 29.6             | 29.6    | 7.2   | 7.2     | 0.1          | 0.1     | 38.9              | 38.8    | 3.0                     | 3.0     | 14.5           | 14.5    |
|          |                   |            | 29.6             |         | 7.2   |         | 0.1          |         | 38.7              |         | 3.0                     |         | 14.5           |         |

**Service Contract No. WD/04/2020**  
**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**  
**Water Quality Monitoring Results on 19-Sep-24**

| Location | Weather Condition | Start Time | Temperature (°C) |         | pH    |         | Salinity ppt |         | DO Saturation (%) |         | Dissolved Oxygen (mg/L) |         | Turbidity(NTU) |         |
|----------|-------------------|------------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|----------------|---------|
|          |                   |            | Value            | Average | Value | Average | Value        | Average | Value             | Average | Value                   | Average | Value          | Average |
| A1       | Sunny             | 16:19      | 32.7             | 32.7    | 7.8   | 7.8     | 0.0          | 0.0     | 82.2              | 82.3    | 5.9                     | 5.9     | 5.4            | 5.4     |
|          |                   |            | 32.7             |         | 7.8   |         | 0.0          |         | 82.3              |         | 5.9                     |         | 5.3            |         |
| A2       | Sunny             | 16:05      | 33.9             | 33.9    | 8.1   | 8.1     | 0.1          | 0.1     | 63.4              | 63.3    | 4.5                     | 4.5     | 3.4            | 3.4     |
|          |                   |            | 33.8             |         | 8.1   |         | 0.1          |         | 63.1              |         | 4.5                     |         | 3.3            |         |
| B1       | Sunny             | 15:57      | 33.8             | 33.9    | 8.8   | 8.8     | 0.1          | 0.1     | 174.3             | 174.1   | 12.4                    | 12.4    | 9.4            | 9.1     |
|          |                   |            | 33.9             |         | 8.8   |         | 0.1          |         | 173.9             |         | 12.3                    |         | 8.7            |         |
| B2       | Sunny             | 15:51      | 33.6             | 33.6    | 8.6   | 8.6     | 0.1          | 0.1     | 172.8             | 173.4   | 12.3                    | 12.4    | 10.2           | 10.2    |
|          |                   |            | 33.6             |         | 8.6   |         | 0.1          |         | 173.9             |         | 12.4                    |         | 10.2           |         |
| S1       | Sunny             | 16:26      | 32.4             | 32.4    | 7.7   | 7.7     | 0.1          | 0.1     | 99.3              | 99.4    | 7.2                     | 7.2     | 11.3           | 11.3    |
|          |                   |            | 32.4             |         | 7.7   |         | 0.1          |         | 99.4              |         | 7.2                     |         | 11.2           |         |
| S2       | Sunny             | 16:14      | 30.5             | 30.5    | 8.0   | 8.0     | 0.1          | 0.1     | 87.3              | 87.3    | 6.6                     | 6.6     | 9.9            | 9.9     |
|          |                   |            | 30.5             |         | 8.0   |         | 0.1          |         | 87.3              |         | 6.6                     |         | 9.9            |         |
| S3       | Sunny             | 15:37      | 30.1             | 30.1    | 8.3   | 8.3     | 0.1          | 0.1     | 60.6              | 60.2    | 4.6                     | 4.6     | 13.2           | 13.6    |
|          |                   |            | 30.1             |         | 8.2   |         | 0.1          |         | 59.7              |         | 4.5                     |         | 14.0           |         |
| S4       | Sunny             | 15:45      | 30.0             | 30.0    | 7.9   | 7.9     | 0.1          | 0.1     | 53.4              | 53.3    | 4.0                     | 4.0     | 8.5            | 8.6     |
|          |                   |            | 30.0             |         | 7.9   |         | 0.1          |         | 53.2              |         | 4.0                     |         | 8.6            |         |

**Service Contract No. WD/04/2020**  
**Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team**  
**Water Quality Monitoring Results on 25-Sep-24**

| Location | Weather Condition | Start Time | Temperature (°C) |         | pH    |         | Salinity ppt |         | DO Saturation (%) |         | Dissolved Oxygen (mg/L) |         | Turbidity (NTU) |         |
|----------|-------------------|------------|------------------|---------|-------|---------|--------------|---------|-------------------|---------|-------------------------|---------|-----------------|---------|
|          |                   |            | Value            | Average | Value | Average | Value        | Average | Value             | Average | Value                   | Average | Value           | Average |
| A1       | Sunny             | 16:20      | 32.6             | 32.6    | 7.5   | 7.5     | 0.1          | 0.1     | 99.2              | 99.1    | 7.2                     | 7.2     | 3.9             | 3.9     |
|          |                   |            | 32.6             |         | 7.5   |         | 0.1          |         | 99.0              |         | 7.2                     |         |                 |         |
| A2       | Sunny             | 16:02      | 30.8             | 30.8    | 7.9   | 7.9     | 0.1          | 0.1     | 73.0              | 73.0    | 5.5                     | 5.5     | 7.4             | 7.4     |
|          |                   |            | 30.8             |         | 7.9   |         | 0.1          |         | 73.0              |         | 5.4                     |         |                 |         |
| B1       | Sunny             | 15:55      | 30.5             | 30.5    | 8.8   | 8.8     | 0.1          | 0.1     | 173.1             | 173.3   | 13.0                    | 13.0    | 7.6             | 7.5     |
|          |                   |            | 30.5             |         | 8.8   |         | 0.1          |         | 173.4             |         | 13.0                    |         |                 |         |
| B2       | Sunny             | 15:47      | 31.3             | 31.3    | 8.1   | 8.1     | 0.1          | 0.1     | 164.5             | 164.5   | 12.2                    | 12.2    | 8.3             | 8.4     |
|          |                   |            | 31.2             |         | 8.1   |         | 0.1          |         | 164.5             |         | 12.2                    |         |                 |         |
| S1       | Sunny             | 16:27      | 31.5             | 31.5    | 7.8   | 7.8     | 0.1          | 0.1     | 151.0             | 151.2   | 11.1                    | 11.1    | 14.7            | 14.6    |
|          |                   |            | 31.5             |         | 7.8   |         | 0.1          |         | 151.3             |         | 11.1                    |         |                 |         |
| S2       | Sunny             | 16:13      | 29.5             | 29.5    | 7.5   | 7.5     | 0.1          | 0.1     | 66.2              | 66.2    | 5.0                     | 5.0     | 7.1             | 7.0     |
|          |                   |            | 29.5             |         | 7.5   |         | 0.1          |         | 66.2              |         | 5.0                     |         |                 |         |
| S3       | Sunny             | 15:32      | 29.1             | 29.1    | 7.7   | 7.7     | 0.1          | 0.1     | 26.6              | 26.6    | 2.0                     | 2.0     | 6.9             | 6.9     |
|          |                   |            | 29.1             |         | 7.7   |         | 0.1          |         | 26.5              |         | 2.0                     |         |                 |         |
| S4       | Sunny             | 15:41      | 29.6             | 29.6    | 7.3   | 7.3     | 0.1          | 0.1     | 34.4              | 34.4    | 2.6                     | 2.6     | 7.6             | 7.6     |
|          |                   |            | 29.6             |         | 7.3   |         | 0.1          |         | 34.3              |         | 2.6                     |         |                 |         |



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**APPENDIX S  
PHOTO RECORDS OF THE STATUS OF  
PONDS**

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**Appendix S – Photo Records of the status of Ponds in Sep 2024**

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|---|--|
|    |    |
| <p>Pond 5</p>   | <p>Pond 6</p>  |
|   |   |
| <p>Pond 7</p>   | <p>Pond 8</p>  |
|  |  |
| <p>Pond 9</p>   | <p>Pond 10</p>   |
|  |  |
| <p>Pond 11</p>  | <p>Pond 12</p>   |



Pond 13