



Agreement No. CE 60/2017  
(EP) Environmental Team  
for Tung Chung New Town  
Extension (East) – Design  
and Construction  
Monthly Environmental Monitoring &  
Audit Report for June 2025

PREPARED FOR



Civil Engineering and Development  
Department

DATE

14 July 2025

REFERENCE

0445700



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# Agreement No. CE 60/2017 (EP) Environmental Team for Tung Chung New Town Extension (East) – Design and Construction

Monthly Environmental Monitoring & Audit Report for June 2025  
0445700



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## Tung Chung New Town Extension

### Environmental Certification Sheet for Environmental Permit No. EP-519/2016


#### Reference Document/Plan

Document/Plan to be Certified:	Monthly Environmental Monitoring & Audit Report for June 2025 (Revision 1)
Date of Report:	14 July 2025

#### Reference EP Condition

Environmental Permit Condition:	Condition 3.5
<p>The Permit Holder shall submit 4 hard copies and 1 electronic copy of Monthly EM&amp;A Reports for the construction stage of the Project to the Director, within 2 weeks after the end of the reporting month. The monthly EM&amp;A Reports shall include an executive summary of all environmental audit results, together with actions taken in the event of non-compliance (exceedances) of the environmental quality performance limits (Action and Limit Levels), complaints received and emergency events relating to violation of environmental legislation (such as illegal dumping and landfilling). The submissions shall be certified by the ET Leader and verified by the IEC as having complied with the requirements as set out in the updated EM&amp;A Manual before submission to the Director. Additional copies of the Monthly EM&amp;A Reports shall be provided upon request by the Director.</p>	

#### ET Certification

I hereby certify that the above referenced document/plan complies with the above referenced condition of EP-519/2016	
Kelvin So Environmental Team Leader	Date: 14 July 2025 

Your Ref.

By Post

Our Ref. 198377-1036

Date 14 July 2025

South Development and Sustainable Lantau Office  
Civil Engineering and Development Department  
13/F, North Point Government Offices  
333 Java Road, North Point  
Hong Kong

Attention: Mr. Rafael TANG / Dr. Y.M. MAK

Dear Sir,

**Agreement No. CE 59/2017 (EP)**  
**Independent Environmental Checker for Tung Chung New Town Extension – Investigation**  
**Monthly Environmental Monitoring & Audit Report for June 2025 for TCE**

We refer to the Monthly Environmental Monitoring & Audit Report for June 2025 for Tung Chung New Town Extension (East) (TCE) dated July 2025 and certified by the Environmental Team (ET) Leader of TCE on 14 July 2025. Please note the submission is hereby verified, in accordance with the requirement stipulated in Condition 3.5 of EP-519/2016.

Should you have any query, please feel free to contact the undersigned at 2608 7314 ([chuawo@binnies.com](mailto:chuawo@binnies.com)) or our Edward Lau at 3894 9695 ([lauky@binnies.com](mailto:lauky@binnies.com)).

Yours faithfully,  
for and on behalf of  
BINNIES HONG KONG LIMITED



MANUEL CHUA  
INDEPENDENT ENVIRONMENTAL CHECKER

cc: ET Leader / TCE – ERM (Attn: Mr. Kelvin So) [by Email: [kelvin.so@erm.com](mailto:kelvin.so@erm.com)]  
PM / TCE – AECOM (Attn: Mr. Chris Cheung) [by Email: [crc1@tce-aecom.com](mailto:crc1@tce-aecom.com)]



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## ACRONYMS AND ABBREVIATIONS

Acronyms	Description
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CEDD	Civil Engineering and Development Department
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EIAO	Environmental Impact Assessment Ordinance
EIS	Ecologically Important Stream
EM&A	Environmental Monitoring and Audit
EP	Environmental Permit
EPD	Environmental Protection Department
ER	Engineer's Representative
ERM	ERM-Hong Kong, Limited
ET	Environmental Team
HVS	High Volume Sampler
IEC	Independent Environmental Checker
PDA	Planned Development Area
PME	Powered Mechanical Equipment
QPME	Quality Powered Mechanical Equipment
RAP	Remediation Action Plan
RR	Remediation Report
RTTM	Real Time Tracking and Monitoring
SS	Suspended Solid
TCB	Tung Chung Bay
TCE	Tung Chung East
TCNTE	Tung Chung New Town Extension
TCW	Tung Chung West
The Project	Tung Chung New Town Extension (East)
THW	Tai Ho Wan
TSP	Total Suspended Particulate
TUE	Tung Chung Line Extension
Updated EM&A Manual	Updated Environmental Monitoring and Audit Manual for Tung Chung New Town Extension prepared by ERM under Agreement No. CE 60/2017 (EP) and deposited to EPD under Environmental Permit No. EP-519/2016

## EXECUTIVE SUMMARY

Tung Chung New Town Extension (TCNTE) is one of the major initiatives under the Government's multi-pronged approach to increase land supply to meet Hong Kong's medium- to long-term needs for housing, economic and social developments. The Environmental Impact Assessment (EIA) Report for TCNTE (Register No. AEIAR-196/2016) was approved on 8 April 2016 and the Environmental Permit (EP) No. EP-519/2016, covering the construction and operation of TCNTE, was granted on 9 August 2016. The EIA Report and EP cover both Tung Chung East (TCE) and Tung Chung West (TCW). ERM-Hong Kong, Limited (ERM) is commissioned to undertake the role of Environmental Team (ET) for the construction and operation of TCE Project ("the Project") in accordance with the requirements specified in the EP, Updated Environmental Monitoring and Audit (EM&A) Manual, EIA Report of the TCNTE project and other relevant statutory requirements.

The construction of the Contract No. NL/2017/03 - Tung Chung New Town Extension – Reclamation and Advance Works ("Contract 1") at TCE commenced on 9 July 2018.

The construction of the Contract No. NL/2020/02 - Tung Chung New Town Extension – Salt Water Supply System ("Contract 2") at TCE commenced on 4 September 2021.

The construction of the Contract No. NL/2020/03 - Tung Chung New Town Extension – Major Infrastructure Works in Tung Chung East ("Contract 3") at TCE commenced on 5 November 2021.

The construction of the Contract No. NL/2020/07 - Tung Chung New Town Extension – Tai Ho Interchange ("Contract 7") at TCE commenced on 15 March 2022.

The temporary works area in Area 113 has been used by MTRC since 9 November 2024 under the Works Contract 1202 – Tung Chung East Station and Associated Enabling Works for Track Diversions of Tung Chung Line Extension (TUE) under the Environmental Permit (EP-614/2022). The corresponding environmental monitoring, site inspection, environmental complaint handling and EM&A reporting in the above-mentioned works area will be covered by EM&A programme of TUE and carried out by existing ET and IEC of TUE.

This is the Monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 June 2025 for the TCE Project in accordance with the Updated EM&A Manual.

A summary of monitoring and audit activities conducted in the reporting period is listed below:

Air Quality Monitoring	6 sessions
Noise Monitoring	6 sessions
Compensation Woodland Monitoring	1 session
Preserved Plant Species Monitoring	1 session
Transplanted Plant Species Monitoring	1 session
Soft Shore Ecological Monitoring	1 session

## Environmental Site Inspection

- Contract 2 4 sessions
- Contract 3 4 sessions
- Contract 7 4 sessions

## Environmental Management Meeting

- Contract 2 1 session
- Contract 3 1 session
- Contract 7 1 session

Environmental auditing works, including weekly site inspections of construction works conducted by the ET, audit of implementation of Complaint Management Plan, Eco-shoreline Implementation Plan, Detailed Preservation and/or Translocation of Plant Species of Conservation Importance and Waste Management Plan were conducted in the reporting period. Based on the audit results and the observation for the reporting period, environmental pollution control and mitigation measures for the Project were properly implemented.

## BREACHES OF ACTION AND LIMIT LEVELS FOR AIR QUALITY

No exceedance of Action and Limit Levels was recorded for construction air quality monitoring in the reporting period.

## BREACHES OF ACTION AND LIMIT LEVELS FOR NOISE

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting period.

## BREACHES OF ACTION AND LIMIT LEVELS FOR WATER QUALITY

Water quality monitoring was suspended in the reporting period.

## ECO-SHORELINE MONITORING

The construction of vertical eco-shoreline, mangrove eco-shoreline and rocky eco-shoreline has been substantially completed. Eco-shoreline monitoring was scheduled during the reporting period.

## SOFT SHORE ECOLOGICAL MONITORING

Impact soft shore ecological monitoring at Tung Chung Bay and Tai Ho Wan has been completed and the post-construction soft shore ecological monitoring was conducted in June 2025.

Based on the post-construction monitoring conducted during the reporting period, there was no evidence showing any significant difference in intertidal communities when compared against the data obtained during baseline monitoring. The ET will continue to observe the change in density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities taking into account natural fluctuation in respect of the occurrence and distribution pattern.

## ENVIRONMENTAL COMPLAINTS, NON-COMPLIANCE & SUMMONS

There was no notification of summons or prosecution recorded in the reporting period.

One (1) environmental complaint related to both Contract 2 and Contract 3 was received in the reporting period. The environmental complaint handling and EM&A reporting in the temporary works area in Area 113 used by MTRC will be covered by EM&A programme of TUE and carried out by existing ET and IEC of TUE.

## REPORTING CHANGE

There was no reporting change in the reporting period.

## KEY ISSUES FOR THE COMING MONTH

Potential environmental impacts arising from the upcoming construction activities in the next reporting period of July 2025 are mainly associated with dust emission, noise from plant operation during normal working hours and restricted hours, handling and storage of C&D materials generated from construction activities, efficiency of wastewater and drainage management and tree protection. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures. The ET will also recommend to the Contractor about the environmental toolbox topics on the abovementioned key issues for the coming month.

# 1. INTRODUCTION

## 1.1 BACKGROUND

Tung Chung New Town Extension (TCNTE) is one of the major initiatives under the Government's multi-pronged approach to increase land supply to meet Hong Kong's medium- to long-term needs for housing, economic and social developments. The Environmental Impact Assessment (EIA) Report for TCNTE (Register No. AEIAR-196/2016) was approved on 8 April 2016 and the Environmental Permit (EP) No. EP-519/2016, covering the construction and operation of TCNTE, was granted on 9 August 2016. The EIA Report and EP cover both Tung Chung East (TCE) and Tung Chung West (TCW).

ERM-Hong Kong, Limited (ERM) is commissioned to undertake the role of Environmental Team (ET) for the construction and operation of TCE Project ("the Project") in accordance with the requirements specified in the EP, Updated Environmental Monitoring and Audit (EM&A) Manual <sup>(1)</sup>, EIA Report of the TCNTE project <sup>(2)</sup> and other relevant statutory requirements.

The TCNTE comprises the following elements:

### (a) TCE Project

1. Reclamation of the seabed by a non-dredged method at TCE to form a total of about 130 hectares of land;
2. Construction of about 4.9 kilometers of seawalls, with an eco-shoreline, three drainage box culvert outfalls, three circulation drains and a seawater intake at TCE;
3. Provision of infrastructure for Tung Chung Area 58, including construction of a single two-lane road with a footpath and the associated utility works;
4. Construction of proposed open space;
5. Construction of roads, footpaths, cycle tracks and the associated junction / road improvement works;
6. Engineering infrastructure works covering drainage, sewerage, waterworks (including a fresh water service reservoir, a salt water service reservoir and a salt water pumping station), common utility tunnels and landscaping works; and
7. Implementation of environmental mitigation measures and environmental monitoring and audit programme for the works.

### (b) TCW Project

1. Site formation works at TCW;
2. Construction of proposed open space;
3. Construction of the River Park including a visitor centre at TCW; and
4. Construction of sustainable urban drainage systems at TCW.

<sup>(1)</sup> ERM (2018a). Updated Environmental Monitoring and Audit Manual for Tung Chung New Town Extension. Deposited to EPD under EP-519/2016

<sup>(2)</sup> Arup (2015). Environmental Impact Assessment Report for Tung Chung New Town Extension. Deposited to EPD under Register No. AEIAR-196/2016

The locations of Contracts 1, 2, 3 and 7 are shown in *Figure 1.1 to 1.4*. The construction and the reclamation related marine works of Contract 1 commenced on 9 and 13 July 2018, respectively. The construction of Contracts 2, 3 and 7 commenced on 4 September 2021, 5 November 2021 and 15 March 2022, respectively.

## 1.2 SCOPE OF THE EM&A REPORT

This is the Monthly EM&A Report for the TCE Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 30 June 2025 for the construction works.

## 1.3 ORGANIZATION STRUCTURE

The organization structure of the Project is shown in *Annex A*. The key personnel contact names and contact details are summarized in *Table 1.1* below.

**TABLE 1.1 CONTACT INFORMATION OF KEY PERSONNEL**

Party	Position	Name	Telephone
Environmental Team (ET) (ERM-Hong Kong, Limited)	ET Leader	Kelvin So	3894 9504
	Deputy ET Leader	Raymond Chow	2271 3281
Independent Environmental Checker (IEC) (Binnies Hong Kong Limited)	IEC	Manuel Chua	3894 9807
	Deputy IEC	Edward Lau	3894 9695
<b>Contract No. NL/2017/03 - Tung Chung New Town Extension – Reclamation and Advance Works (Contract 1)</b>			
Civil Engineering and Development Department	Marine Conservation Officer	Mak Yiu Ming	3894 9707
Engineer's Representative (ER) (AECOM Asia Company Limited)	Principal Resident Engineer	Frankie Fan	3894 9603
	Chief Resident Engineer	Chris Cheung	3894 9604
	Resident Engineer	Victor Chan	3894 9666
	Inspector of Works	Clement Fan	3894 9798
Contractor (Build King – SCT Joint Venture)	Site Agent	David Wong	9653 8635
	Civil Division Head	Marco Chan	9257 7033
	Environmental Officer	Issac Wong	9873 8968
	24-hour Complaint Hotline	-	5976 1853
<b>Contract No. NL/2020/02 - Tung Chung New Town Extension – Salt Water Supply System (Contract 2)</b>			
Civil Engineering and Development Department	Senior Engineer	Patrick C Y Yeung	2231 4435
	Electrical & Mechanical Engineer	Samson K L Yip	2231 4460
Engineer's Representative (ER) (AECOM Asia Company Limited)	Principal Resident Engineer	Frankie Fan	3894 9603
	Senior Resident Engineer	Sunny Ng	3894 9605
	Senior Resident Engineer	Vincent Leung	3894 9645
	Resident Engineer	Amen Fung	3894 9676
	Senior Inspector of Works	Lai Kwok Wai	3894 9731
Contractor (China Geo-Engineering Corporation)	Construction Manager	Ambrose Kwong	6198 7787
	Site Agent	Edward Mok	6498 4306
	Construction Team Leader	C K Chung	5401 5720
	Environmental Officer	Fung Ka Bao	9120 1489

Party	Position	Name	Telephone
	24-hour Complaint Hotline	-	5976 1853
<b>Contract No. NL/2020/03 - Tung Chung New Town Extension – Major Infrastructure Works in Tung Chung East (Contract 3)</b>			
Civil Engineering and Development Department	Senior Engineer	Eddie W C Lam	2231 4445
	Senior Engineer	Phoebe Tang	2231 4423
	Senior Engineer	Colin K C Wong	2231 4417
	Engineer	Timothy H M Chan	2231 4473
	Engineer	Wing Chen	3894 9704
Engineer's Representative (ER) (AECOM Asia Company Limited)	Principal Resident Engineer	Frankie Fan	3894 9603
	Chief Resident Engineer	Gloria Tang	3894 9639
	Senior Resident Engineer	Winston Wong	3894 9650
	Resident Engineer	Alvis Li	3894 9558
	Resident Engineer	Anson Yip	3894 9559
	Senior Inspector of Works	Douglas Ng	3894 9737
Contractor (Build King Civil Engineering Limited)	Construction Manager	Cheung Siu Lun	2272 3680
	Site Agent	Aldous Lo	9225 0368
	Deputy Site Agent	Keith Chau	9646 8283
	Construction Team Leader	Kwong Po Hang	9283 6844
	Environmental Officer	Tim Lin	6390 0018
	24-hour Complaint Hotline	-	5976 1853
<b>Contract No. NL/2020/07 - Tung Chung New Town Extension – Tai Ho Interchange (Contract 7)</b>			
Civil Engineering and Development Department	Senior Engineer	Phoebe Tang	2231 4423
	Engineer	S H Leung	2231 4449
Engineer's Representative (ER) (AECOM Asia Company Limited)	Principal Resident Engineer	Frankie Fan	3894 9603
	Senior Resident Engineer	Kelvin Kwan	3894 9641
	Senior Resident Engineer	Brian Li	3894 9556
	Resident Engineer	Kingsley Ho	3894 9552
	Resident Engineer	Jessie Tang	3894 9678
	Senior Inspector of Works	C K Liu	3894 9733
Contractor (Build King Civil Engineering Limited)	Site Agent	Hon Yee	9090 3109
	Deputy Site Agent	Vincent Kwan	9833 1313
	Construction Team Leader	Vincent Lo	9883 9229
	Environmental Officer	Nash Wong	9810 1946
	24-hour Complaint Hotline	-	5976 1853

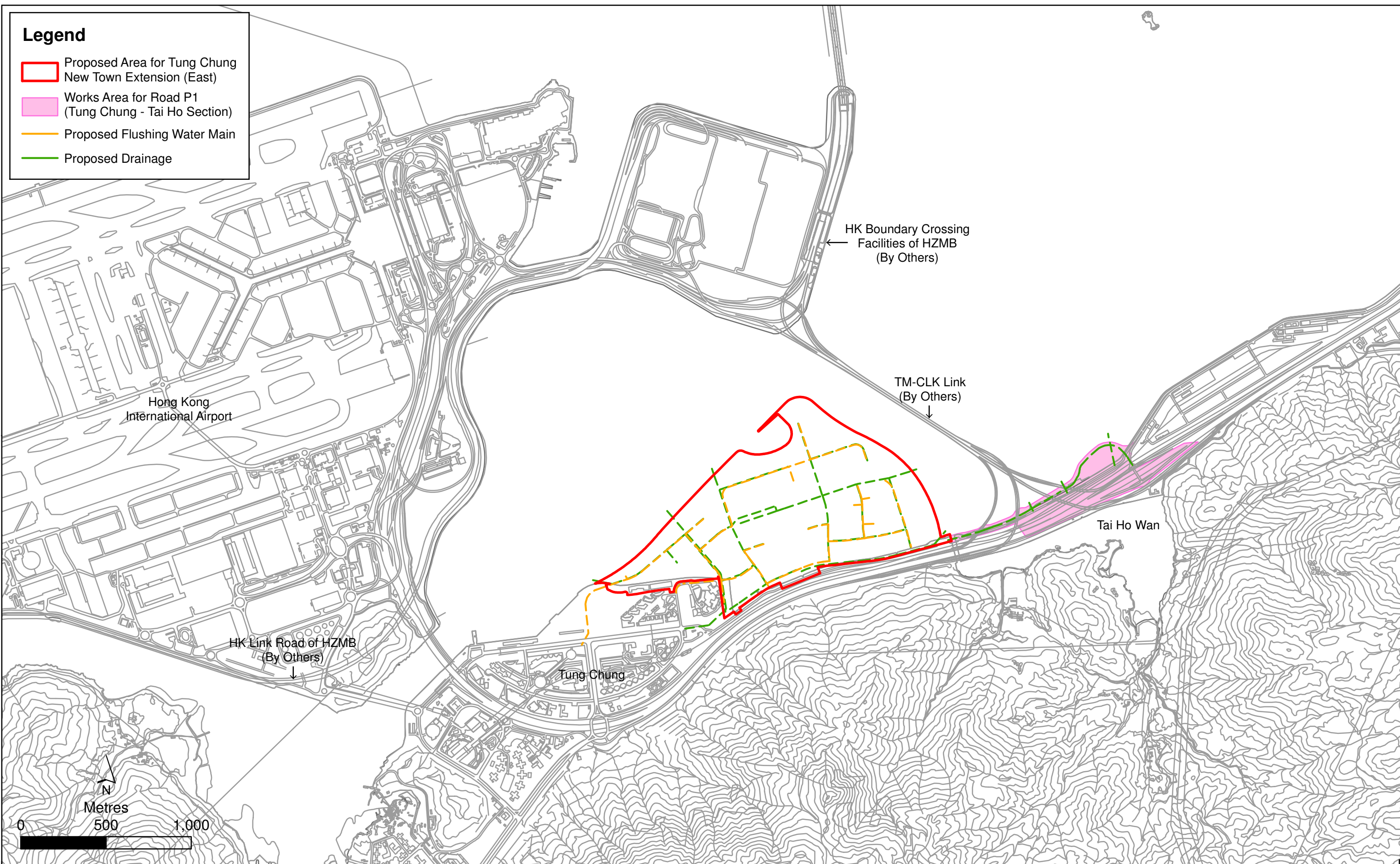


Figure 1.1

Location of Contract No. NL/2017/03 - Tung Chung New Town Extension - Reclamation and Advance Works (Contract 1)

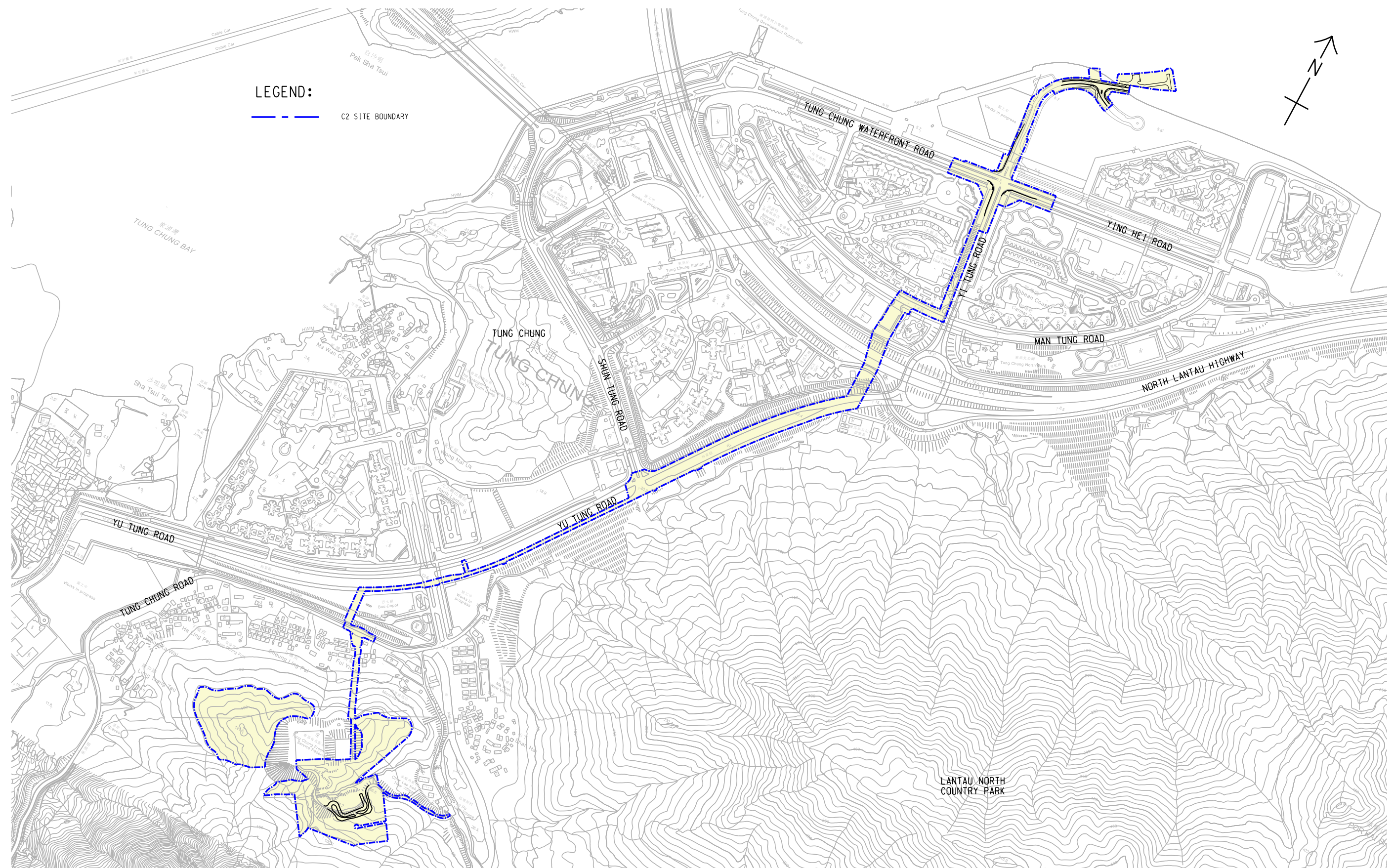


Figure 1.2

Location of Contract No. NL/2020/02 - Tung Chung New Town Extension – Salt Water Supply System (Contract 2)



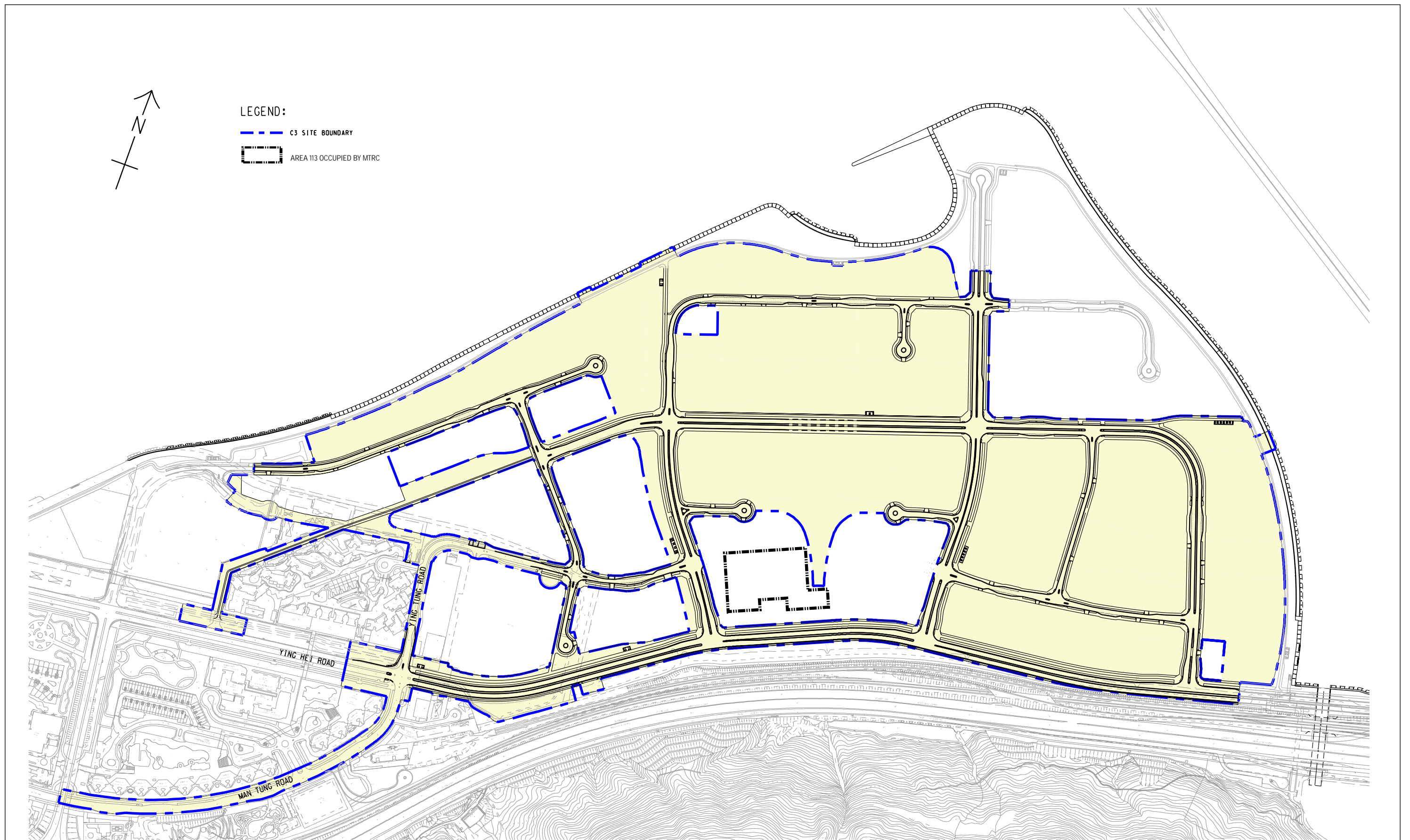


Figure 1.3

Location of Contract No. NL/2020/03 - Tung Chung New Town Extension – Major Infrastructure Works in Tung Chung East (Contract 3)

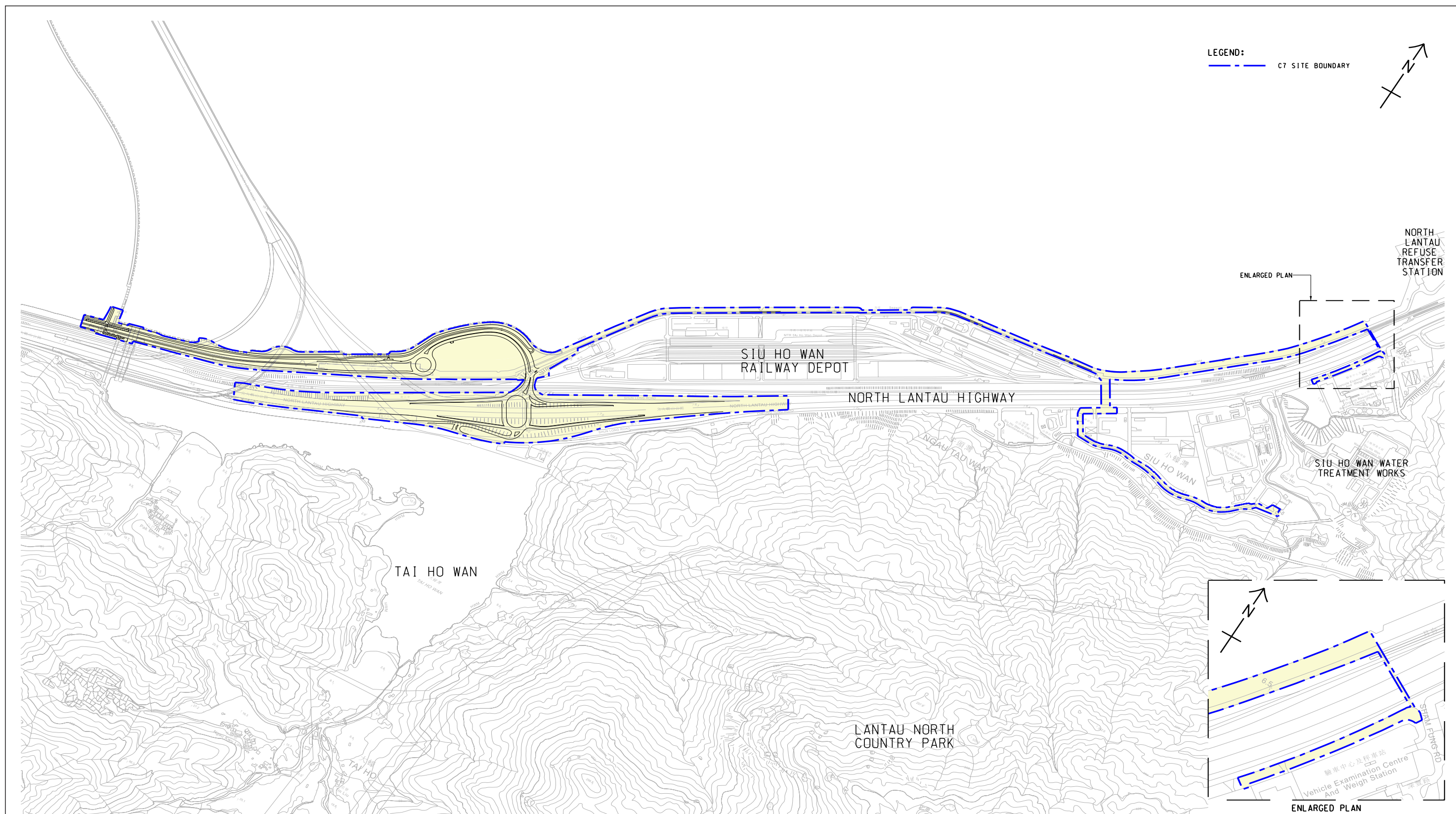


Figure 1.4

Location of Contract No. NL/2020/07 – Tung Chung New Town Extension – Tai Ho Interchange (Contract 7)

## 1.4 SUMMARY OF CONSTRUCTION WORKS

As informed by the Contractor, details of the major works carried out in this reporting period are listed below:

**TABLE 1.2 MAJOR ACTIVITIES IN THE REPORTING PERIOD**

Activities	Key Issues	Key Mitigation Measures
<b>Contract No. NL/2017/03 - Tung Chung New Town Extension – Reclamation and Advance Works (Contract 1)</b>		
<b>Land-based Works</b>		
<ul style="list-style-type: none"> <li>Removal of siltation at IORC</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> <li>Potential surface runoff</li> <li>Noise from plant operation during normal working hours or restricted hours</li> <li>Dust emission during storage and transfer of sand/ sorted public fill</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Strictly follow requirement under CNP for the use of PMEs and works within restricted period</li> <li>Use of acoustic mat and other noise mitigation measures when necessary</li> <li>Regular maintenance of engines and mechanical equipment</li> </ul>
<b>Contract No. NL/2020/02 - Tung Chung New Town Extension – Salt Water Supply System (Contract 2)</b>		
<b>Land-based Works</b>		
<ul style="list-style-type: none"> <li>Construction of pumping station at Portion 6</li> <li>Construction of Intake Culvert at Portion 6</li> <li>Testing on service reservoir at Portion 3</li> <li>Construction of HDD works at Portion 3</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> </ul>

Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"> <li>Pressure test on watermain at Portion 3 along Waterfront Road, Man Tung Road, Yu Tung Road and Shun Tung Road</li> <li>Construction of L3 Road at Portion 5</li> </ul>	<ul style="list-style-type: none"> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> <li>Tree protection</li> </ul>	<ul style="list-style-type: none"> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works</li> </ul>

**Contract No. NL/2020/03 - Tung Chung New Town Extension – Major Infrastructure Works in Tung Chung East (Contract 3)**

**Land-based Works**

<ul style="list-style-type: none"> <li>Excavation and ELS works at Portion 104</li> <li>Excavation and ELS works at CUT no.1, 2, 3, 4 and supporting building</li> <li>Construction works for CUT no. 1 and 3 structure</li> <li>UU laying works in CUT 1</li> <li>Back-filling works for CUT 2</li> <li>Construction works and furniture installation of PM office at WA9</li> <li>Construction works of Contractor office at WA6</li> <li>Drainage, Sewerage and watermain works at Road L5, L7, L8, L9, D4 and D5 and Portion 16</li> <li>DCS works at Road L5, D4 and L7.</li> <li>Pipe laying works for twin rising mains/ watermain laying at Man Tung Road</li> <li>Preparation and pipe jacking works at Ying Tung Road</li> <li>Pipe jacking works at Yi Tung Road</li> <li>Backfilling works for noise barrier at Portion 11</li> <li>Road and drainage works in Road P1</li> <li>Road works in Road L3, L4 and L5</li> <li>Road widening works at Ying Hei Road</li> <li>ELS for SIBC construction</li> <li>Construction for BC3 at Portion 22B</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> </ul>
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Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"> <li>Pipe pile installation at underpass D1</li> </ul>		
<b>Contract No. NL/2020/07 - Tung Chung New Town Extension – Tai Ho Interchange (Contract 7)</b>		
<b>Land-based Works</b>		
<ul style="list-style-type: none"> <li>Backfilling and pipe laying for rising main and watermain at Portion 146-1 to 146-5</li> <li>Drainages works at SR-A1 to A5 and RW-R7 at Portion 31</li> <li>Drainages works at Portion 146-1 to 146-3, 146-4, 146-6, 146-7, 146-10 and 146-11</li> <li>Pak Mong Bridge insitu deck and furniture</li> <li>Pipe laying works at Portions 32 (Sham Shui Kok Drive)</li> <li>Pressure tests and backfilling at Portion 32 (Access Road adjacent to MTRC Siu Ho Wan Depot)</li> <li>Pipe jacking at Portion 33</li> <li>RC construction of Retaining Wall FR1 at Portion 31</li> <li>Pak Mong Subway Extension Phase 2 - Demolition of existing Subway and Sheetpiling for ELS</li> <li>Bridge Connection at Abutments for Bridge A1 and A2 at Portion 31</li> <li>RC construction for A1a, A1b, A2a, A2b u shape wall and RW U2, R6</li> <li>RC construction at RW-R7 at Portion 31</li> <li>RC works at Wall E</li> <li>Mini-piles at Wall D</li> <li>Pile cap, Piers, deck and Abutment construction for Bridge C at Portion 146-12</li> <li>ELS at Bridge C Abutment East</li> <li>RC works for Box Structure C1 at Portion 146-11</li> <li>Earthworks at SR-A3 near RW-R7</li> <li>Asphalt paving, kerbs and concrete profile barriers installation for Road P1 at 146-4 to 146-11</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> <li>Tree protection</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works</li> </ul>

Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"><li>• Sign Gantry RC works DS 36 and 37</li><li>• Site clearance</li></ul>		

The environmental mitigation implementation schedule is presented in *Annex B*.

## 1.5 SUMMARY OF EM&A PROGRAMME REQUIREMENTS

The status for all environmental aspects is presented in *Table 1.3*. The EM&A requirements remained unchanged during the reporting period.

**TABLE 1.3 SUMMARY OF STATUS FOR THE ENVIRONMENTAL ASPECTS UNDER THE UPDATED EM&A MANUAL**

Parameters	Status
<b>Air Quality</b>	
Baseline Monitoring	The results of baseline air quality monitoring for TCE were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4
Impact Monitoring	On-going for TCE, monitoring conducted three times every six days
<b>Noise</b>	
Baseline Monitoring	The results of baseline noise monitoring for TCE were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4
Impact Monitoring	On-going for TCE, monitoring conducted once per week
Impact Monitoring for Road Traffic Noise during Operational Phase	To be conducted during operational phase
Fixed Noise Commissioning Test	To be implemented by the Contractor before operation of TCNTE
<b>Water Quality</b>	
Baseline Monitoring	The results of baseline water quality monitoring for TCE were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4
Impact Monitoring	Suspended for TCE with approval from EPD
<b>Waste Management</b>	
Waste Monitoring	On-going
<b>Land Contamination</b>	
Contamination Assessment Plan (CAP), Remediation Action Plan (RAP) and Remediation Report (RR)	To be conducted under TCW. Refer to the EM&A Reports of TCW.
<b>Ecology</b>	
Monitoring for Compensation Woodland	Compensation Woodland Planting was completed on 30 September 2022 On-going, monitoring conducted quarterly. Quarterly post-planting monitoring report was submitted to EPD on 2 May 2025.
Monitoring for Emergent Plant inside the future River Park	To be conducted under TCW. Refer to the EM&A Reports of TCW.
Monitoring for Translocated Amphibians of Conservation Importance	To be conducted under TCW. Refer to the EM&A Reports of TCW.
Monitoring for Preserved/Transplanted Plant Species of Conservation Importance	On-going, for preserved plant species, monitoring conducted once per month; for transplanted plant species, replacement planting was carried out on 28 April 2023 and 19

Parameters	Status
	September 2023. Monitoring conducted once per month for the first year, and quarterly for the second year.
Monitoring for Tung Chung Stream EIS and Wong Lung Hang EIS	To be conducted under TCW. Refer to the EM&A Reports of TCW. Monitoring for Wong Lung Hang was not required and the proposal was accepted by EPD on 2 September 2021
Eco-shoreline Monitoring	Second year wet season monitoring is ongoing. The second year dry season monitoring was submitted to AFCD and EPD on 22 May 2025.
Tung Chung Bay and Tai Ho Wan Baseline Monitoring	The results of baseline soft shore ecological monitoring at Tung Chung Bay and Tai Ho Wan were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4
Tung Chung Bay and Tai Ho Wan Impact Monitoring	Completed
Tung Chung Bay and Tai Ho Wan Post-construction Monitoring	On-going for TCE, monitoring conducted quarterly
<b>Landscape and Visual</b>	
Baseline Monitoring	The results of baseline landscape and visual monitoring were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4
Impact Monitoring	On-going
<b>Site Environmental Audit</b>	
Regular Site Inspection	On-going
Dolphin Watching Plan implementation measures	Completed
Works Vessel Travel Route Plan implementation measures	Completed
Silt Curtain Deployment Plan implementation measures	All silt curtain was removed in accordance with the Silt Curtain Deployment Plan and after obtaining the acceptance from EPD
Spill Response Plan implementation measures	Completed
Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance implementation measures	Under implementation by the Contractor of Contract 2
Detailed Compensatory Woodland Planting Plan implementation measures	Under implementation by the Contractor of Contract 2
Waste Management Plan implementation measures	Under implementation by the Contractor of Contract 1, 2, 3 and 7
Complaint Hotline and Email Channel	Under implementation by the Contractor of Contract 1, 2, 3 and 7
Environmental Log Book	On-going

Taking into account the construction works, impact monitoring of air quality, noise and waste management were carried out in the reporting period. The monitoring schedule of air quality and noise are provided in *Annex E2* and *Annex F2* respectively.

The EM&A programme also involved environmental site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report and relevant EP submissions, including Complaint Management Plan, Eco-shoreline Implementation Plan, Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance, and Waste Management Plan.

To promote the environmental awareness and enhance the environmental performance of the contractors, environmental trainings and regular environmental management meetings were conducted during the reporting period, which are summarized as below:

- Three (3) environmental management committee meetings were held among the relevant contractors, ER, ET, IEC and CEDD on 18 June 2025 (for Contracts 2 and 3) and 10 June 2025 (for Contracts 7);
- Environmental toolbox trainings on excavation, environmental abatement facilities on 3 and 17 June 2025 were conducted for Contract 2;
- Environmental toolbox trainings on scaffolding, shotcreting, percussive piling, bored piling, mini piling, handling and storage of chemicals, anti-mosquitos control measures, chemical waste and handling of chemical spillage on 3, 5, 10, 12, 17, 19, 24 and 26 June 2025 were conducted for Contract 3;
- Environmental toolbox trainings on scaffolding, shotcreting, steel works, concreting on 4, 11, 18 and 25 June 2025 were conducted for Contract 7.

## 1.6 STATUS OF STATUTORY ENVIRONMENTAL COMPLIANCE WITH THE ENVIRONMENTAL PERMIT

The status of statutory environmental compliance with the EP conditions under the EIAO, submission status under the EP and implementation status of mitigation measures are presented in *Annex C*.

## 1.7 STATUS OF OTHER STATUTORY ENVIRONMENTAL REQUIREMENTS

The environmental licenses and permits, including environmental permit, discharge license under Water Pollution Control Ordinance, registration as chemical waste producer, construction noise permit and specified processes license, which were valid in the reporting period are presented in *Annex D*. No non-compliance with environmental statutory requirements was recorded.

## 2. EM&A RESULTS FOR TUNG CHUNG EAST

The temporary works area in Area 113 has been used by MTRC since 9 November 2024 under the Works Contract 1202 – Tung Chung East Station and Associated Enabling Works for Track Diversions of Tung Chung Line Extension (TUE) under the Environmental Permit (EP-614/2022). The corresponding environmental monitoring, site inspection, environmental complaint handling and EM&A reporting in the above-mentioned works area will be covered by EM&A programme of TUE and carried out by existing ET and IEC of TUE.

### 2.1 AIR QUALITY

#### 2.1.1 MONITORING REQUIREMENTS AND EQUIPMENT

According to the Updated EM&A Manual of the Project, impact air quality monitoring in terms of 1-hour Total Suspended Particulate (TSP) was conducted three (3) times every six (6) days when the highest dust impact was expected. The Action and Limit Levels of the air quality monitoring is provided in *Table 2.1* below.

**TABLE 2.1 ACTION AND LIMIT LEVELS FOR 1-HOUR TSP**

Location	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
Monitoring station for Tung Chung East	279	500

Portable direct reading dust meters were used to measure 1-hour TSP levels in undertaking the air quality monitoring for the Project. The proposed use of portable direct reading dust meters was submitted to IEC and obtained agreement from the IEC as stated in Section 5.5 of the Updated EM&A Manual. With the use of direct reading dust meter, it can allow prompt and direct results for the EM&A reporting and the implementation of the event and action plan. The portable direct reading dust meter would be calibrated every year against High Volume Sampler (HVS) to check the validity and accuracy of the results measured by direct reading method.

The monitoring location and equipment used in the impact air quality monitoring programme are summarized in *Table 2.2* and illustrated in *Figure 2.1*. Copies of the calibration certificates for the equipment are presented in *Annex E1*, which showed that the portable direct reading dust meter is capable of providing comparable results with that provided by a HVS.

**TABLE 2.2 AIR QUALITY MONITORING DETAILS**

Monitoring Station	Location	Parameter	Frequency and Duration	Monitoring Dates	Equipment
DM-1	Tung Chung Area 56 – Ying Tung Estate	1-hour TSP	Three times per six days during the construction period of the Project	2, 7, 13, , 19, 25 and 30 June 2025	1-hour TSP Dust Meter SIBATA LD-3B (S/N: 456666)

Note: It should be noted that impact monitoring at other construction dust monitoring locations at TCE as stated in the Updated EM&A Manual will commence after the flat intake (for Monitoring Stations DM-2, DM-3 and DM-4).

#### 2.1.2 MONITORING SCHEDULE FOR THE REPORTING MONTH

The schedule for air quality monitoring during the reporting period is provided in *Annex E2*.

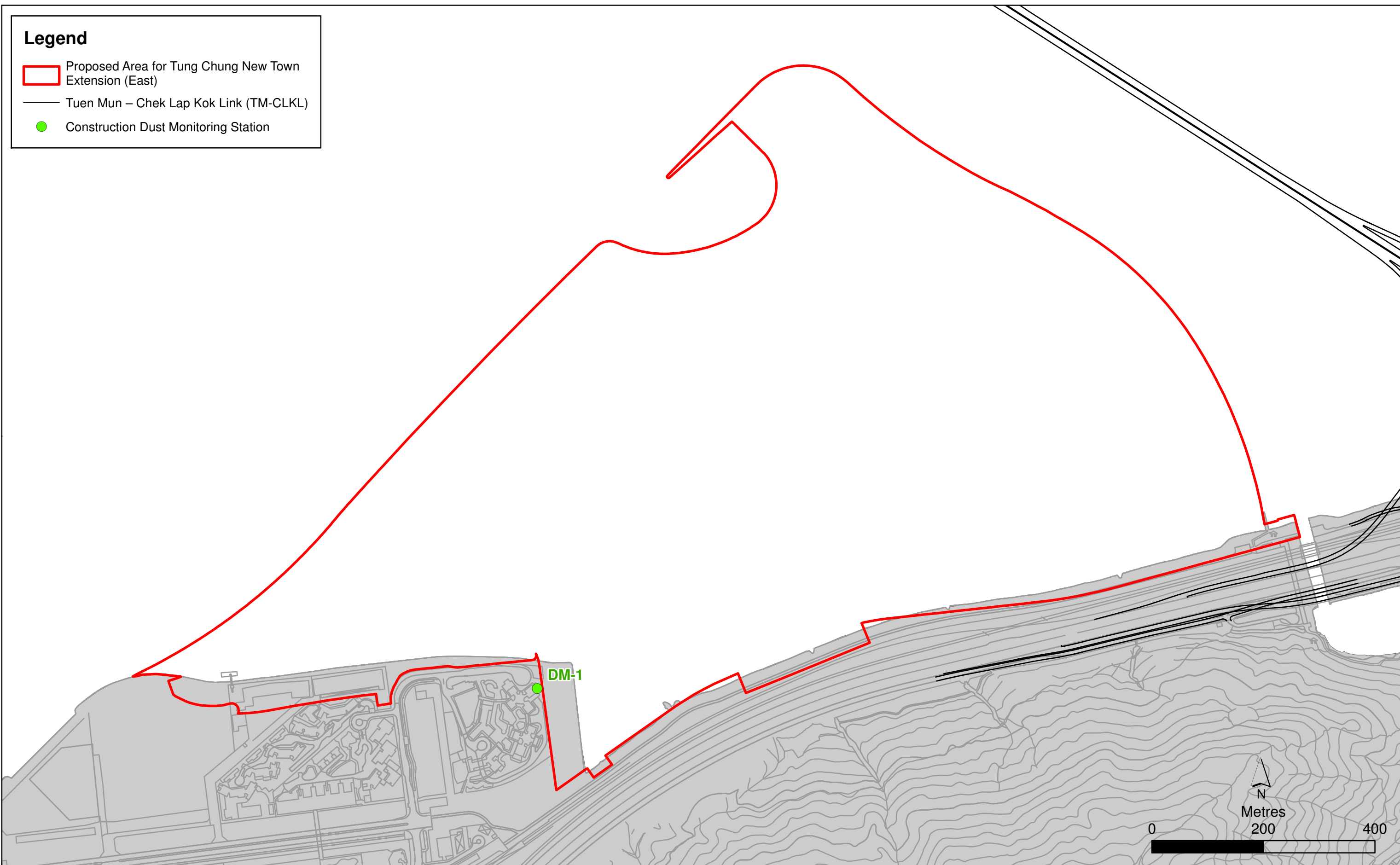


Figure 2.1

### Construction Dust Monitoring Station Location

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Date: 11/10/2018



### 2.1.3 RESULTS AND OBSERVATIONS

The monitoring results for 1-hour TSP are summarized in *Table 2.3*. The monitoring data and the graphical presentation are provided in *Annex E3*.

**TABLE 2.3 SUMMARY OF 1-HOUR TSP MONITORING RESULTS IN THE REPORTING PERIOD**

Monitoring Station	Average ( $\mu\text{g}/\text{m}^3$ )	Range ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
DM-1	39	31-46	279	500

Major dust sources in the reporting period included haul road traffic and excavation under the Project.

No exceedance of Action and Limit Levels was recorded for construction air quality monitoring in the reporting period. No action was thus required to be undertaken in accordance with the Event and Action Plan presented in *Annex E4*.

## 2.2 NOISE MONITORING

### 2.2.1 MONITORING REQUIREMENTS AND EQUIPMENT

According to the Updated EM&A Manual of the Project, impact noise monitoring was conducted once per week during the construction phase of the Project. The Action and Limit Level for construction noise of the Project is provided in *Table 2.4* below.

**TABLE 2.4 ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE**

Time Period	Action Level	Limit Level
0700 - 1900 hours on normal weekdays	When one documented complaint is received	75 dB(A) <sup>a, b</sup>

Note:

- a Limit level is exceeded when  $\text{Leq} \geq 75 \text{ dB(A)}$ . 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.
- b Reduce to 70 dB (A) for schools and 65 dB (A) during school examination periods.

Noise monitoring was performed using sound level meter at the designated monitoring stations NMS-CA-1A <sup>(3)</sup> <sup>(4)</sup> and NMS-CA-4 (*Figure 2.2; Table 2.5*) in accordance with the requirements stipulated in the Updated EM&A Manual. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Details of the deployed equipment are provided in *Table 2.5*. Copies of the calibration certificates for the equipment are presented in *Annex F1*.

<sup>(3)</sup> Impact monitoring at monitoring station NMS-CA-1A commenced on 19 September 2018 in view of the close vicinity of the construction works near the residential area at Century Link.

<sup>(4)</sup> Due to land handover issue, NMS-CA-1A was relocated to Ying Hong Road which is located 60m away from the original location. Proposal on the relocation of NMS-CA-1A was approved by IEC on 23 November 2018. Noise monitoring at the relocated location commenced since 24 November 2018.

**Legend**

- Proposed Area for Tung Chung New Town Extension (East)
- Tuen Mun – Chek Lap Kok Link (TM-CLKL)
- Construction Airborne Noise Monitoring Station

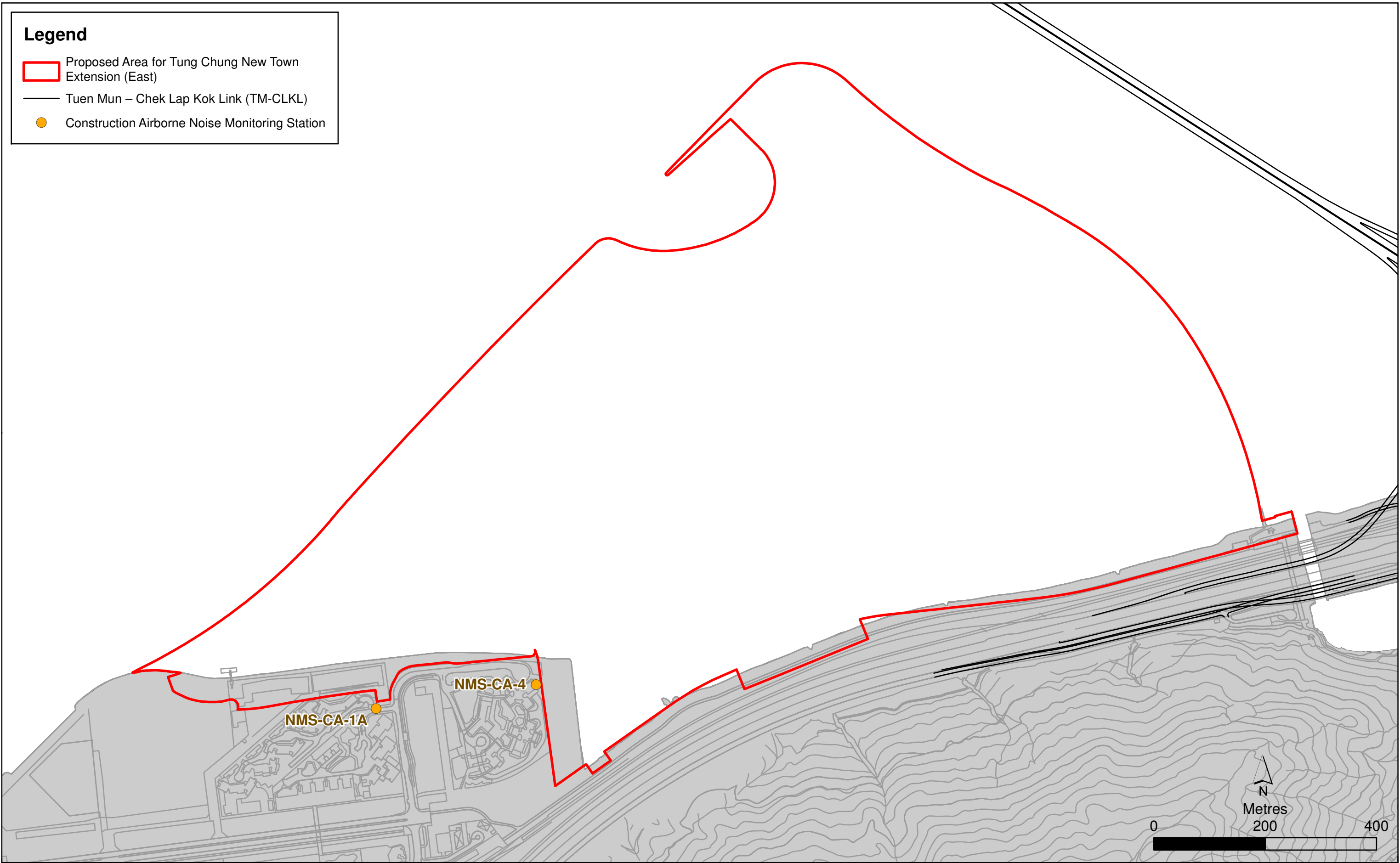


Figure 2.2

Construction Airborne Noise Monitoring Station Location

*(Note : Due to land handover issue, NMS-CA-1A was relocated to Ying Hong Road which is located 60m away from the original location. Noise monitoring at the relocated location commenced since 24 November 2018.)*



**TABLE 2.5 NOISE MONITORING DETAILS**

Monitoring Station <sup>a</sup>	Location	Parameter	Frequency and Duration	Monitoring Dates	Equipment
NMS-CA-1A <sup>b</sup>	Residential premise in Tung Chung East – Century Link/Ying Hong Road <sup>c</sup>	30-minute measurement between 0700 and 1900 on normal weekdays (Monday to Saturday). $L_{eq}$ , $L_{10}$ and $L_{90}$ would be recorded.	Once per week for 30 mins during the construction period of the Project	2, 7, 13, , 19, 25 and 30 June 2025	Sound Level Meter: Rion NL-52 (S/N: 00542913)  Acoustic Calibrator: LARSON DAVIS CAL200 (S/N: 15678)
NMS-CA-4	Residential premise in the reclamation area next to Tung Chung East – Ying Tung Estate				

Note:

- a It should be noted that impact monitoring at other construction noise monitoring locations at TCE as stated in the Updated EM&A Manual will commence after the flat intake of residential premise in TCE (for Monitoring Station NMS-CA-1) and operation of schools (for Monitoring Stations NMS-CA-2 and NMS-CA-3).
- b Impact monitoring at monitoring station NMS-CA-1A commenced on 19 September 2018 in view of the close vicinity of the construction works near the residential area at Century Link.
- c Due to land handover issue, NMS-CA-1A was relocated to Ying Hong Road which is located 60m away from the original location. Proposal on the relocation of NMS-CA-1A was approved by IEC on 23 November 2018. Noise monitoring at the relocated location commenced since 24 November 2018.

## 2.2.2 MONITORING SCHEDULE FOR THE REPORTING MONTH

The schedule for noise monitoring during the reporting period is provided in *Annex F2*.

## 2.2.3 RESULTS AND OBSERVATIONS

Results for noise monitoring are summarized in *Table 2.6*. The monitoring data and the graphical presentation are provided in *Annex F3*.

**TABLE 2.6 SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS IN THE REPORTING PERIOD**

Monitoring Station	Average, dB(A), $L_{eq}$ (30mins)	Range, dB(A), $L_{eq}$ (30mins)	Limit Level, dB(A), $L_{eq}$ (30mins)
NMS-CA-1A	66.0	65.2-67.5	75
NMS-CA-4	64.9	63.9-66.2	75

Major noise sources during the noise monitoring included noise from plant operation, craning, piling, haul road traffic, nearby traffic and aircraft as well as nearby construction sites.

No exceedance of Action and Limit Levels was recorded for construction noise monitoring in the reporting period. No action was thus required to be undertaken in accordance with the Event and Action Plan presented in *Annex F4*.

## 2.3 WATER QUALITY MONITORING

No monitoring event for impact water quality monitoring was conducted at all designated monitoring stations during the reporting period. Water quality monitoring has been suspended since 3 October 2023 as all reclamation works and marine construction activities have been completed.

## 2.4 COMPENSATION WOODLAND MONITORING

Compensation woodland planting under Contract 2 was completed on 30 September 2022. With the approval from EPD on the monitoring proposal in August 2023, quarterly post-planting monitoring for compensation woodland was commenced in September 2023.

Quarterly post-planting monitoring report was submitted to EPD on 2 May 2025. Quarterly post-planting monitoring for the compensation woodland was carried out on 10, 24, 28 and 30 June 2025 <sup>(5)</sup>. Photographic record of the compensation woodland planting is provided in Annex G.

## 2.5 PRESERVED/TRANSPLANTED PLANT SPECIES OF CONSERVATION IMPORTANCE MONITORING

Plant species of conservation importance, including three individuals of *Aquilaria sinensis* and 33 individuals of *Gmelina chinensis*, were identified within works areas for Contract 2 during the survey conducted in August 2021. All individuals of *Aquilaria sinensis* and 31 individuals of *Gmelina chinensis* were recommended being preserved *in-situ* while two individuals of *Gmelina chinensis* (RT-07 and RT-08) were recommended being transplanted to the receptor site in accordance with the Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance approved under Condition 2.21 of EP-519/2016.

Initial tree survey was conducted in September 2021 under Contract No. NL/2020/02 before the commencement of construction works. According to the initial tree survey conducted, the *in-situ* preserved plant species of conservation importance of which one individual of *Aquilaria sinensis* and six individuals of *Gmelina chinensis* were found missing.

During the monthly monitoring of the *in-situ* preserved plant species of conservation importance in November 2023, one individual of *Aquilaria sinensis* and one individual of *Enkianthus quinqueflorus* were newly observed and recommended being preserved *in-situ*. Registration and measurement for two additional trees were conducted on 4 December 2023.

### 2.5.1 PRESERVED PLANT SPECIES OF CONSERVATION IMPORTANCE

Monthly monitoring of the *in-situ* preserved plant species of conservation importance by the Qualified Personnel (QP) appointed under Contract 2 was implemented in the reporting period. Health condition was considered fair for the majority of the *in-situ* preserved plant species of conservation importance, of which two individuals of *Gmelina chinensis* could not be monitored as a result of unsafe access to the locations, as recorded during the monitoring carried out on 30 June 2025.

Tree protection zones for the *in-situ* preserved plant species of conservation importance were demarcated. No injuries and/or damages to the individuals of the *in-situ* preserved plant species of conservation importance were reported by the QP since the previous monitoring events. Photographic record and tree schedule of the preserved plant species of conservation importance monitoring are provided in Annex H1.

The ET will continue to monitor the implementation of monitoring of *in-situ* preserved plant species of conservation importance.

<sup>(5)</sup> Starting from June 2025, the quarterly post-planting monitoring report would be prepared under Contract 3.

## 2.5.2 TRANSPLANTED PLANT SPECIES OF CONSERVATION IMPORTANCE

Site visit to the receptor site for the transplanted plant species of conservation importance under Contract 2 was carried out on 20 January 2022 prior to the commencement of transplantation works for the transplanted plant species of conservation importance on 21 January 2022.

The transplanted plant species of conservation importance were both certified as dead trees by the QP on 15 June 2022 as no living signs were observed. Replacement planting of new trees of the same species, or other species to the satisfaction of the Project Manager, at the Contractors' expense would be deemed necessary in accordance with the conditions under the approved Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance. Replacement planting of three (3) *Aquilaria sinensis* were completed on 28 April 2023. One (1) individual was certified dead by the QP as no living signs were observed on 26 July 2023. The removal of the dead tree and replanting of one (1) individual of *Aquilaria sinensis* were completed on 19 September 2023.

The establishment period of two (2) individuals of *Aquilaria sinensis* was ended on 27 April 2024 and one (1) individual of *Aquilaria sinensis* was ended on 18 September 2024.

Quarterly monitoring of three (3) individuals of *Aquilaria sinensis* were carried out on 25 June 2025. All three (3) individuals of the replacement planting trees were in fair health condition. Photographic record and tree schedule of *Aquilaria sinensis* monitoring are provided in *Annex H2*.

ET will continue to monitor the implementation of monitoring of in-situ preserved/ transplanted plant species of conservation importance.

## 2.6 ECO-SHORELINE MONITORING

The construction of vertical eco-shoreline, mangrove eco-shoreline and rocky eco-shoreline has been substantially completed. Photographic record is provided in *Annex I*.

The second year dry season monitoring was submitted to AFCD and EPD on 22 May 2025.

Second year wet season monitoring of different types of eco-shorelines were conducted on 10, 23, 24 and 25 June 2025. Monitoring of ichthyoplankton was conducted using plankton net on 17 June 2025 while monitoring of juvenile fish was conducted using purse seine on 3 and 4 June 2025. Monitoring is conducted for at least 3 years after the completion of eco-shoreline, twice in wet season and twice in dry season, while ichthyoplankton and juvenile fish monitoring will be conducted on a monthly basis covering May to August for at least 3 years, in order to determine the effectiveness of the eco-shoreline in accordance with the Updated EM&A Manual and Eco-shoreline Implementation Plan.

## 2.7 SOFT SHORE ECOLOGICAL MONITORING

### 2.7.1 MONITORING REQUIREMENTS

According to the Updated EM&A Manual of the Project, post-construction soft shore ecological monitoring has to be conducted quarterly at each survey location at Tung Chung Bay (TCB) and Tai Ho Wan (THW) covering wet and dry seasons in the post-construction phase at least for 2 year after completion of construction. The soft shore ecological monitoring consisted of

qualitative walk-through surveys, quantitative transect surveys and sedimentation rate monitoring at the accessible survey locations of TCB and THW.

For qualitative walk-through surveys, the accessible shoreline of TCB and THW at each of the three shore heights: 2 m, 1.5 m and 1 m above Chart Datum was surveyed, and organisms encountered were recorded and their relative abundance noted. In particular, active search of horseshoe crabs and seagrasses were conducted to confirm whether these species are present along the sites.

For quantitative transect survey, one 50 – 100 m horizontal (belt) transect (actual length subject to the site conditions) was surveyed at each of the three shore heights: 2 m, 1.5 m and 1 m above Chart Datum of each survey location. On each transect, five quadrats (50 cm x 50 cm) were placed randomly in each transect to assess the abundance and distribution of flora and fauna. For each quadrat, surface layer to 5 cm depth was sieved and microbenthic organisms (e.g. crustaceans) were recorded and identified. Density of organisms was expressed as individuals / m<sup>2</sup>. Areas with seagrass were also recorded and identified and other information, such as the percentage cover, were also recorded. Sessile animals such as barnacles and oysters in each quadrat were not counted but estimated as percentage cover on the rock surface. All species of algae (encrusting, foliose and filamentous) were also identified and recorded by estimating the percentage cover on the rock surface. All organisms were identified to the lowest possible taxonomic level (at least Genus level). Species encountered outside the quadrat but in the vicinity of survey transect were also recorded.

For sedimentation rate monitoring, to avoid disturbance to the mudflat and nuisance to navigation, no fixed marker/monitoring rod was installed at the monitoring stations. A high precision Global Navigation Satellite System (GNSS) real time location fixing system was used to locate the station in the precision of 1 mm, which is reasonable under flat mudflat topography with uneven mudflat surface only at micro level.

Measurements were taken directly on the mudflat surface. The Real Time Kinematic GNSS (RTK GNSS) surveying technology was used to measure mudflat surface levels and 3D coordinates of a survey point. The RTK GNSS survey was calibrated against a reference station in the field before and after each survey. The reference station is a survey control point established by the Lands Department of the HKSAR Government using professional surveying instruments such as total station, level and geodetic global navigation satellite system. The coordinates system is in HK1980 GRID system. The reference station was surveyed and established by traditional land surveying methods using professional surveying instruments such as total station, level and geodetic GNSS. The accuracy was down to mm level and higher than the proposed RTK GNSS cm level so that the reference control station has relatively higher accuracy. As the reference control station has higher accuracy, it was set as true evaluation relative to the RTK GNSS measurement. All position and height correction were adjusted and corrected to the reference control station.

The precision of the measured mudflat surface level reading (vertical precision setting) was within 10 mm (standard deviation) after averaging the valid survey records of the XYZ HK1980 GRID coordinates. Each survey record at each station was computed by averaging at least three measurements that are within the above specified precision setting. Both digital data logging and written records were collected in the field. Field data on station fixing and mudflat surface measurement were recorded.

## 2.7.2 MONITORING SCHEDULE FOR THE REPORTING MONTH

The schedule for soft shore ecological monitoring during the reporting period is provided in *Annex J1*.

## 2.7.3 RESULTS AND OBSERVATIONS

Post-construction soft shore ecological monitoring was conducted at three (3) monitoring locations at Tung Chung Bay (TCB), situated in the eastern side (TCB1), southern side (TCB2) and western side (TCB3) as well as one (1) monitoring location at Tai Ho Wan (THW) as shown in *Figure 2.3* during the reporting period. Representative photographs taken during the impact monitoring are presented in *Figure 2.4*.

For qualitative walk-through surveys, horseshoe crabs and intertidal soft shore communities were recorded during the post-construction monitoring. The survey results for each monitoring location are summarized in *Table 2.7* below and detailed in *Annex J2*.

**TABLE 2.7 SUMMARY OF QUALITATIVE WALK-THROUGH SURVEYS**

Location	Date and Time <sup>a</sup>	Horseshoe Crabs		Seagrass		No. of Other Intertidal Species
		No. of Species	No. of Individuals	No. of Species	Area Coverage (m <sup>2</sup> )	
THW	09/06/2025 12:00-16:00	1	55	-	-	30
TCB3	10/06/2025 13:00-17:00	1	19	1	0.5	36
TCB1	23/06/2025 11:30-14:30	0	0	-	-	37
TCB2	24/06/2025 12:30-16:30	1	5	-	-	24

Note:

a Quantitative and qualitative transect surveys were conducted on 9 June 2025 at THW, 10 June 2025 at TCB3, 23 June 2025 at TCB1, and 24 June 2025 at TCB2.

For the quantitative transect surveys, a total of 9,876 individuals were recorded from all transects at monitoring stations TCB1, TCB2, TCB3 and THW. The most abundant group of intertidal soft shore communities recorded was gastropods, with a total of 9,728 individuals (relative abundance of 98.5% and density of 648.5 individual m<sup>-2</sup>). The summary of the top three dominant species at each shore height of each monitoring station and the complete list of species and density recorded are presented in *Annex J2*. When compared with the results obtained during the baseline monitoring as presented in the Baseline Monitoring Report <sup>6</sup>, there was no indication of a change in the composition of intertidal communities recorded during the reporting period.

The mudflat surface levels at the four selected monitoring stations in June 2025 and the corresponding XYZ HK1980 GRID coordinates are presented in *Table 2.8*. When compared with the results obtained during the baseline monitoring as presented in the Baseline

<sup>(6)</sup> ERM (2018b). Baseline Monitoring Report for Tung Chung New Town Extension (East). Submitted to EPD under EP-519/2016

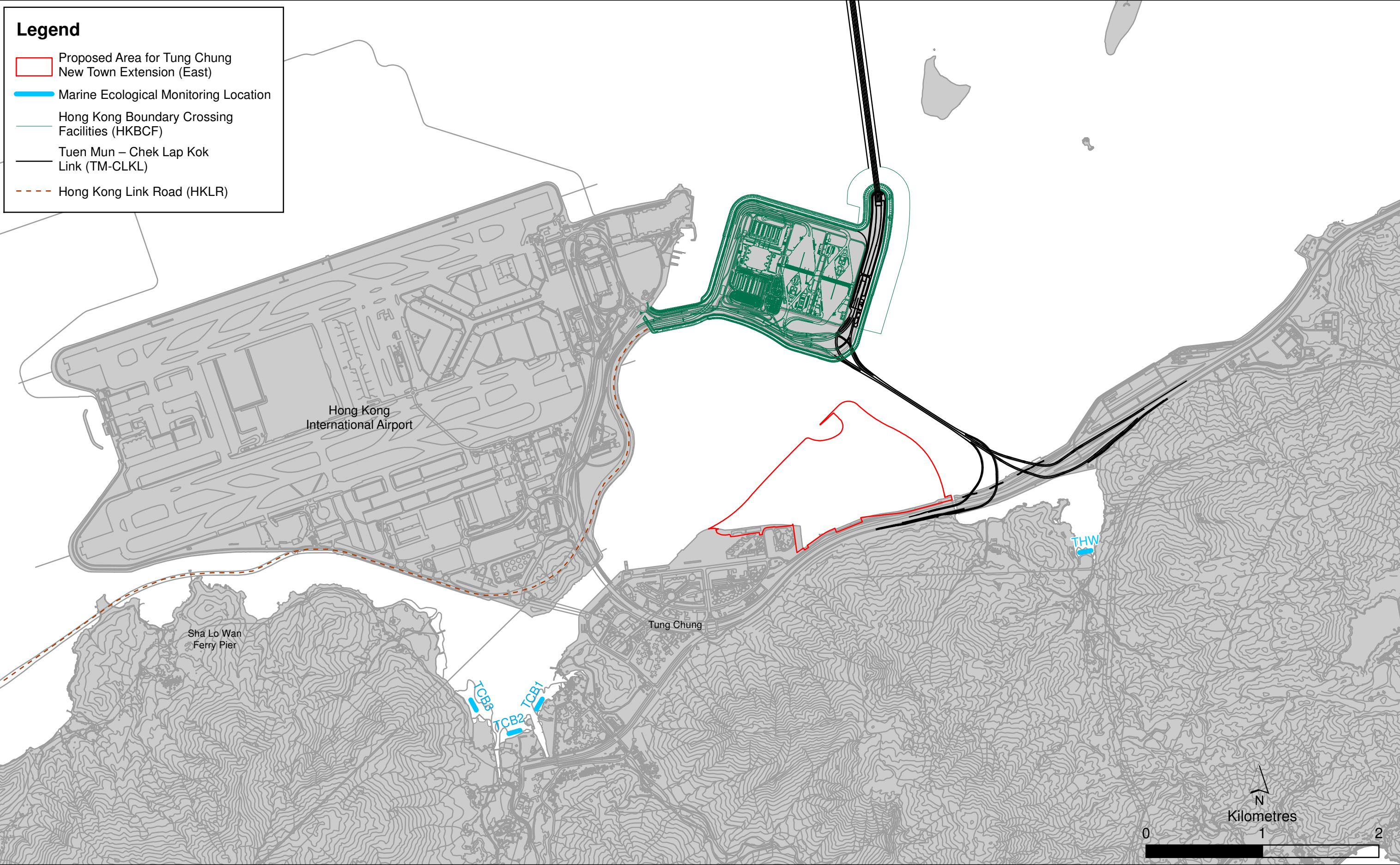


Figure 2.3

Marine Ecological Monitoring (Intertidal Soft-shore Habitats)





(a) Survey Location at TCB1



(b) Survey Location at TCB2



(c) Survey Location at TCB3



(d) Survey Location at THW



(e) Horseshoe crab *Tachypleus tridentatus* recorded at TCB3 during the Qualitative Walk-through Survey



(f) Seagrass *Halophila ovalis* recorded at TCB3 during the Qualitative Walk-through Survey

Figure 2.4

Representative Photographs Taken during the Impact Soft Shore Ecological Monitoring conducted in June 2025

Date: June 2025



Monitoring Report, slight changes with <0.07 mPD of sediment levels are recorded for the monitoring stations. The ET will continue to observe the trend of change in sediment levels over time for further comparison and review.

**TABLE 2.8 RESULTS OF SEDIMENTATION RATE MONITORING**

Monitoring Station	Northing (m)	Easting (m)	Z level at June 2025 (mPD)	Remarks
TCB1	816068.628	811129.279	1.314	Soft mudflat
TCB2	815812.686	810917.368	1.106	Soft mudflat
TCB3	816027.456	810696.243	1.056	Soft mudflat
THW	817472.056	815850.452	1.032	Soft mudflat

Based on the post-construction monitoring results, there was no evidence showing any significant difference in intertidal communities when compared against the data obtained during baseline monitoring. No action is thus required to be undertaken in accordance with the Event and Action Plan presented in *Annex J3*. The ET will continue to observe the change in density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities taking into account natural fluctuation in respect of the occurrence and distribution pattern.

## 2.8 EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis with the Contractor and ER to monitor the implementation of proper environmental pollution control and mitigation measures for air quality, noise, water quality, waste management, landscape and visual impacts and preservation and/or transplantation of plant species of conservation importance under the Project. In the reporting period, four (4) site inspections were carried out on 4, 11, 18 and 25 June 2025 for Contract 2, four (4) site inspections were carried out on 6, 13, 18 and 27 June 2025 for Contract 3 and four (4) site inspections were carried out on 3, 10, 17 and 24 June 2025 for Contract 7.

Key observations during the site inspections are summarized in *Table 2.9*.

**TABLE 2.9 KEY OBSERVATIONS IDENTIFIED DURING THE SITE INSPECTION IN THIS REPORTING MONTH**

Contract No.	Inspection Date	Environmental Observations	Recommendations/Remarks
Contract 2	4 June 2025	Portion 3 <ul style="list-style-type: none"> <li>Mud was observed on public haul road.</li> </ul>	Portion 3 <ul style="list-style-type: none"> <li>The Contractor was reminded to keep public haul road clean.</li> </ul>
	11 June 2025	Portion 6 <ul style="list-style-type: none"> <li>Chemical container was observed placing on the ground.</li> </ul>	Portion 6 <ul style="list-style-type: none"> <li>Contractor was reminded to provide drip tray for chemicals.</li> </ul>

Contract No.	Inspection Date	Environmental Observations	Recommendations/ Remarks
	18 June 2025	<p>Portion 3</p> <ul style="list-style-type: none"> <li>Insufficient drainage control was observed.</li> <li>Wastewater treatment system tank was not turned on, and proper and outstanding record was not observed on the wastewater treatment system tank checklist.</li> </ul> <p>Portion 6</p> <ul style="list-style-type: none"> <li>Chemical container was observed placing on the ground.</li> <li>Excessive discharge was observed near sea.</li> <li>Construction material was observed placed near retained trees.</li> </ul>	<p>Portion 3</p> <ul style="list-style-type: none"> <li>The Contractor was urged to further improve the drainage and ensure the surface runoff would be directed to sedimentation tank.</li> <li>The Contractor was reminded to ensure the wastewater treatment system tank is working and provide proper checking/record on the wastewater treatment system tank checklist.</li> </ul> <p>Portion 6</p> <ul style="list-style-type: none"> <li>Contractor was reminded to provide drip tray for chemicals.</li> <li>The Contractor was urged to critically review the drainage plan as to comply with discharge license and ensure no site runoff or discharge.</li> <li>The Contractor was reminded to provide proper tree protection zone for retained trees.</li> </ul>
	25 June 2025	<p>Portion 5, 6</p> <ul style="list-style-type: none"> <li>No deficiency was observed.</li> </ul>	<ul style="list-style-type: none"> <li>Nil.</li> </ul>
Contract 3	6 June 2025	<p>Portion 16b, L3, L4, L5</p> <ul style="list-style-type: none"> <li>No deficiency was observed.</li> </ul>	<ul style="list-style-type: none"> <li>Nil.</li> </ul>
	13 June 2025	<p>L3</p> <ul style="list-style-type: none"> <li>Poor housekeeping was observed.</li> <li>Oil stain was observed on ground.</li> </ul>	<p>L3</p> <ul style="list-style-type: none"> <li>The Contractor was reminded to remove refuse and maintain good housekeeping.</li> <li>The Contractor was urged to clean the oil stain and rectify the situation immediately.</li> </ul>
	18 June 2025	<p>Portion 16b, 104, L3, L4</p> <ul style="list-style-type: none"> <li>No deficiency was observed.</li> </ul>	<ul style="list-style-type: none"> <li>Nil.</li> </ul>

Contract No.	Inspection Date	Environmental Observations	Recommendations/ Remarks
	27 June 2025	L4 <ul style="list-style-type: none"> <li>Chemical container was observed placing on ground.</li> </ul>	L4 <ul style="list-style-type: none"> <li>The Contractor was urged to keep the chemicals in proper storage area with drip trays.</li> </ul>
Contract 7	3 June 2025	Portion 30 <ul style="list-style-type: none"> <li>No deficiency was observed.</li> </ul>	<ul style="list-style-type: none"> <li>Nil.</li> </ul>
	10 June 2025	Portion 146 <ul style="list-style-type: none"> <li>Poor housekeeping was observed.</li> </ul>	Portion 146 <ul style="list-style-type: none"> <li>The Contractor was reminded to remove the water barriers nearshore and maintain good housekeeping.</li> </ul>
	17 June 2025	Portion 30, 146 <ul style="list-style-type: none"> <li>No deficiency was observed.</li> </ul>	<ul style="list-style-type: none"> <li>Nil.</li> </ul>
	24 June 2025	Portion 32 <ul style="list-style-type: none"> <li>Non-road Mobile Machinery (NRMM) label was not observed on generator.</li> </ul>	Portion 32 <ul style="list-style-type: none"> <li>The Contractor was reminded to affix appropriate NRMM label in accordance with the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation.</li> </ul>

The Contractors have rectified all of the observations identified during environmental site inspections in the reporting period. The Contractors were reminded to implement all relevant mitigation measures related to construction dust, construction noise, water quality and waste management outlined in the EIA Report and Updated EM&A Manual.

## 2.9 WASTE MANAGEMENT STATUS

The Contractors of Contract 1, 2, 3 and 7 have registered as chemical waste producer. Sufficient numbers of receptacles were available for general refuse collection and sorting.

All dump trucks engaged on site was equipped with RTTM system during the reporting period. The Surveillance Team of the ET conducted regular site inspection on the dump trucks and their track records. No illegal dumping and landfilling of C&D materials was found during the reporting period.

Wastes generated during this reporting period include mainly non-inert construction wastes. Reference has been made to the waste flow tables prepared by the Contractors. The quantities of different types of wastes and imported fill materials are summarised in *Table 2.10*.

**TABLE 2.10 QUANTITIES OF DIFFERENT WASTE GENERATED AND IMPORTED FILL MATERIALS**

Contract No.	Month/ Year	Inert C&D Materials <sup>a</sup> (m <sup>3</sup> )	Imported Fill <sup>b</sup> (sand) (m <sup>3</sup> )	Imported Fill <sup>c</sup> (public fill) (m <sup>3</sup> )	Inert Construction Waste Re-used <sup>d</sup> (m <sup>3</sup> )	Non-inert Construction Waste <sup>e</sup> (m <sup>3</sup> )	Recyclable Materials <sup>f</sup> (kg)	Chemical Wastes (kg)
TCNTE (East)	1 to 30 Apr 25	0.0	0.0	0.0	11,853.0	229.82	0.0	0.0
	1 to 31 May 25	0.0	0.0	0.0	13,860.0	316.24	83,520.0	0.0
	1 to 30 Jun 25	0.0	0.0	0.0	12,928.0	342.88	0.0	0.0

Note:

- a Inert construction wastes include hard rock and large broken concrete, and materials disposed as public fill.
- b Imported materials include of sand fill from any source outside of TCNTE.
- c Imported sorted public fill include all G200, G400 and glass gullet (local recycling materials) from any source outside of TCNTE.
- d Reuse of inert construction waste generated under the TCNTE contracts.
- e Non-inert construction wastes include general refuse disposed at landfill.
- f Recyclable materials include metals, paper, cardboard, plastics and others.

## 2.10 LANDSCAPE AND VISUAL MONITORING

Implementation of applicable landscape and visual mitigation measures was monitored in accordance with the Updated EM&A Manual. All measures undertaken by the Contractor during the construction phase and establishment work phase shall be audited by ET to ensure compliance with the intended aims of the measures.

The implementation status of the environmental protection measures is summarized below in *Table 2.11*. Examples of landscape and visual mitigation measures are presented in *Annex K1*. The monitoring programme for detailed design, construction and establishment stages is presented in *Table 2.12*. Event and Action Plan for Landscape and Visual impacts is stated in *Annex K2*.

**TABLE 2.11 IMPLEMENTATION STATUS OF LANDSCAPE AND VISUAL MITIGATION MEASURES**

<b>Landscape and Visual Mitigation Measures during Construction</b>	<b>Implementation Status</b>	<b>Relevant Contract(s) in the Reporting Period</b>
MM1 – Optimization of Construction Areas & Providing Temporary Landscape on Temporary Construction	Implementation of the measures were carried out during the detailed design stage of the Project.	NA
MM2 – Minimize Topographical Changes	Implementation of the measures were carried out during the detailed design stage of the Project.	NA
MM3 – Preservation of Potentially Registerable OVTs, Rare and Protective Vegetation	<p>Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.</p> <p>The Contractors submitted Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance under EP condition 2.21.</p> <p>The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.</p>	All works contracts
MM4 – Transplanting of Existing Trees	<p>Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works.</p> <p>The Contractors submitted Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance under EP condition 2.21.</p> <p>The transplanted plant species of conservation importance were both certified as dead trees by the QP on 15 June 2022 as no living signs were observed.</p>	Contract 2
MM5 – Screen Hoarding	The implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	All works contracts
MM6 – Adopting Non-dredge Method for the Reclamation	Not applicable during the reporting period.	NA
MM9 – Providing Natural Rock Material/ Planting for Artificial Seawall	Rock armour reused and construction of eco-shoreline (mangrove eco-shoreline, rocky eco-shoreline and vertical eco-shoreline) in progress. The implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	Contract 1

<b>Landscape and Visual Mitigation Measures during Construction</b>	<b>Implementation Status</b>	<b>Relevant Contract(s) in the Reporting Period</b>
MM10 – Compensatory Planting	Not applicable during the reporting period.	NA
MM11 – Woodland Restoration	The implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	Contract 2
MM12 – Screen Planting	Not applicable during the reporting period.	NA
MM13 – Roadside Planting	Not applicable during the reporting period.	NA
MM14 – Aesthetic Design of Built Development	Not applicable during the reporting period.	NA
MM15 – Maximise Greening on Structures	Not applicable during the reporting period.	NA
MM16 – Noise Barrier Design	Not applicable during the reporting period.	NA
MM18 – Landscaping on Slopes	Not applicable during the reporting period.	NA
MM20 – Lighting Control	The implementation of mitigation measures was checked by ET during weekly site inspection. Implementation of the measures by Contractors was observed.	All works contracts

**TABLE 2.12 MONITORING PROGRAMME FOR LANDSCAPE AND VISUAL**

<b>Stage</b>	<b>Monitoring Task</b>	<b>Monitoring Report</b>	<b>Form of Approval</b>	<b>Frequency</b>
Design	Monitoring of design works against the recommendations of the landscape and visual impact assessments within the EIA should be undertaken by the Engineer and Landscape Architect, to ensure that they fulfil the intentions of the mitigation measures. Any changes to the design, including design changes on site should also be checked	Report by CEDD / ER confirming that the design conforms to requirements of EP.	Approval by Project Proponent	At completion of design stage
Construction	Monitoring of the contractor's operations during the construction period.	Report on Contractor's compliance by ET	Counter-signature of report by IEC	Monthly
Establishment Works	Monitoring of the planting works during the 24-months Establishment Period after completion of the construction works.	Report on Contractor's compliance by ET	Counter-signature of report by IEC	Bi-monthly

## 2.11 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

A summary of the Environmental Mitigation Implementation Schedule is presented in *Annex B*. The necessary mitigation measures were implemented properly for the Project.

## 2.12 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

There was no notification of summons or prosecution recorded in the reporting period.

One (1) environmental complaint related to both Contract 2 and Contract 3. Investigation was conducted for the environmental complaint in accordance with the complaint handling process as stated in the Complaint Management Plan. Environmental complaints in the reporting period are summarized below.

	Complaint(s)	Investigation/Follow up action(s)
1	Environmental complaint related to both Contract 2 and Contract 3 regarding suspected polluted water was received on 2 June 2025 and referred by EPD on 20 June 2025.	According to information provided by the Contractor with confirmation from RSS, there was no discharge point outside of site areas of Contract 2 and Contract 3. Besides, there was no spillage, leakage, or discharge of site effluent into the existing stormwater drains at Yi Tung Road or other drains that would ultimately flow into the concerned drainage outfall during the complained period. ET reminded the Contractor to provide toolbox trainings regarding proper treatment / handling of polluted site effluent to workers and foremen

Statistics on complaints, notifications of summons, successful prosecutions are summarised in *Annex L*.

### 3. FUTURE KEY ISSUES

#### 3.1 CONSTRUCTION PROGRAMME FOR THE COMING MONTH

Works to be undertaken in the next monitoring period of July 2025 are summarized in *Table 3.1* below, together with the key issues and the key mitigation measures:

**TABLE 3.1 MAJOR ACTIVITIES FOR THE NEXT REPORTING PERIOD**

Activities	Key Issues	Key Mitigation Measures
<b>Contract No. NL/2017/03 - Tung Chung New Town Extension – Reclamation and Advance Works (Contract 1)</b>		
<b>Land-based Works</b>		
<ul style="list-style-type: none"> <li>Defect rectification at IORC</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> <li>Potential surface runoff</li> <li>Noise from plant operation during normal working hours or restricted hours</li> <li>Dust emission during storage and transfer of sand/ sorted public fill</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Strictly follow requirement under CNP for the use of PMEs and works within restricted period</li> <li>Use of acoustic mat and other noise mitigation measures when necessary</li> <li>Regular maintenance of engines and mechanical equipment</li> </ul>
<b>Contract No. NL/2020/02 - Tung Chung New Town Extension – Salt Water Supply System (Contract 2)</b>		
<b>Land-based Works</b>		
<ul style="list-style-type: none"> <li>Construction of pumping station at Portion 6</li> <li>Construction of Intake Culvert at Portion 6</li> <li>Testing on service reservoir at Portion 3</li> <li>Construction of HDD works at Portion 3</li> <li>Pressure test on watermain at Portion 3 along Waterfront Road, Man Tung Road, Yu Tung Road and Shun Tung Road</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> </ul>

Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"> <li>Construction of L3 Road at Portion 5</li> </ul>	<ul style="list-style-type: none"> <li>Tree protection</li> </ul>	<ul style="list-style-type: none"> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works</li> </ul>

**Contract No. NL/2020/03 - Tung Chung New Town Extension – Major Infrastructure Works in Tung Chung East (Contract 3)**

**Land-based Works**

<ul style="list-style-type: none"> <li>Excavation and ELS works at Portion 104</li> <li>Excavation and ELS works at CUT no.1, 2, 3, 4 and supporting building</li> <li>Construction works for CUT no. 1 and 3 structure</li> <li>UU laying works in CUT 1</li> <li>Back-filling works for CUT 2</li> <li>Construction works and furniture installation of PM office at WA9</li> <li>Construction works of Contractor office at WA6</li> <li>Drainage, Sewerage and watermain works at Road L5, L7, L8, L9, D4 and D5 and Portion 16</li> <li>DCS works at Road L5, D4 and L7.</li> <li>Pipe laying works for twin rising mains/ watermain laying at Man Tung Road</li> <li>Preparation and pipe jacking works at Ying Tung Road</li> <li>Pipe jacking works at Yi Tung Road</li> <li>Backfilling works for noise barrier at Portion 11</li> <li>Road and drainage works in Road P1</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> </ul>
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Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"> <li>Road works in Road L3, L4 and L5</li> <li>Road widening works at Ying Hei Road</li> <li>ELS for SIBC construction</li> <li>Construction for BC3 at Portion 22B</li> <li>Pipe pile installation at underpass D1</li> </ul>		

**Contract No. NL/2020/07 - Tung Chung New Town Extension – Tai Ho Interchange (Contract 7)**

**Land-based Works**

<ul style="list-style-type: none"> <li>Backfilling and testing for rising main and watermain at Portion 146-1 to 146-11</li> <li>Drainages works at SR-A1 to A5 and RW-R7 at Portion 31</li> <li>Drainages works at Portion 146-1 to 146-3, 146-4, 146-6, 146-7, 146-10 and 146-11</li> <li>Smart lamp post ducting laying at Road P1 footpath</li> <li>Pak Mong Bridge insitu deck and furniture</li> <li>Pressure test of Dia. 1200 watermain at Portions 32 (Sham Shui Kok Drive)</li> <li>Pressure tests and backfilling at Portion 32 (Access Road adjacent to MTRC Siu Ho Wan Depot)</li> <li>Pipe jacking at Portion 33</li> <li>RC construction of Retaining Wall FR1 at Portion 31</li> <li>Pak Mong Subway Extension Phase 2 - Demolition of existing Subway and Sheetpiling for ELS</li> <li>Bridge Connection at Abutments for Bridge A1 and A2 at Portion 31</li> <li>RC construction for R6 at A2a</li> <li>RC construction at RW-R7 at Portion 31</li> </ul>	<ul style="list-style-type: none"> <li>Dust emission</li> <li>Handling and storage of C&amp;D materials generated from construction activities</li> <li>Noise from plant operation</li> <li>Emission of dark smoke from PMEs</li> <li>Efficiency of wastewater and drainage management</li> <li>Tree protection</li> </ul>	<ul style="list-style-type: none"> <li>Good site practices</li> <li>Regular water spraying on stockpiles, unpaved haul road and land filling area</li> <li>Provide tarpaulin sheets coverage on stockpiles</li> <li>Sorting and reuse of C&amp;D materials as far as practicable</li> <li>Use of QPME and noise barrier/acoustic mat</li> <li>Regular maintenance of PMEs</li> <li>Implementation of wastewater and drainage management</li> <li>Retain and protect all existing trees and vegetation within the study area which are not directly affected by the works</li> </ul>
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Activities	Key Issues	Key Mitigation Measures
<ul style="list-style-type: none"> <li>• RC works at Wall E</li> <li>• Mini-piles at Wall D</li> <li>• Pile cap, Piers, deck and Abutment construction for Bridge C at Portion 146-12</li> <li>• ELS at Bridge C Abutment East</li> <li>• RC works for Box Structure C1 at Portion 146-11</li> <li>• Earthworks at SR-A3 near RW-R7</li> <li>• Asphalt paving, kerbs and concrete profile barriers installation for Road P1 at 146-4 to 146-11</li> <li>• Sign Gantry RC works DS 36 and 37</li> <li>• Site clearance</li> </ul>		

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures. The ET will also recommend to the Contractors about the environmental toolbox topics on the abovementioned key issues for the next reporting period.

### 3.2 MONITORING SCHEDULE FOR THE COMING MONTH

The tentative schedules for environmental monitoring in July 2025 are provided in *Annex M*.

## 4. CONCLUSION AND RECOMMENDATION

This EM&A Report presents the findings of the EM&A activities undertaken for the TCE Project during the period from 1 to 30 June 2025 in accordance with the Updated EM&A Manual and the requirements of the Environmental Permit (EP-519/2016). The environmental monitoring, site inspection, environmental complaint handling and EM&A reporting in the temporary works area in Area 113 used by MTRC will be covered by EM&A programme of TUE and carried out by existing ET and IEC of TUE.

Air quality (1-hour TSP), noise, compensation woodland, in-situ preserved plant species of conservation importance, transplanted plant species of conservation importance and post-construction soft shore ecological monitoring were carried out in the reporting period.

The monitoring results for air quality monitoring (1-hour TSP) complied with the Action/ Limit levels in the reporting period.

No exceedance of Action/Limit Level was recorded for construction noise monitoring in the reporting period.

Water quality monitoring was suspended in the reporting period.

Mangrove eco-shoreline, rocky eco-shoreline and vertical eco-shoreline were completed. Eco-shoreline monitoring was scheduled during the reporting period.

Based on the monitoring results for post-construction soft shore ecological monitoring, there was no evidence showing any significant change in intertidal communities when compared against the data obtained during baseline monitoring. The ET will continue to observe the change in density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities taking into account natural fluctuation in respect of the occurrence and distribution pattern.

Post-planting monitoring of the compensation woodland was carried out in the reporting month.

Monitoring of the *in-situ* preserved plant species of conservation importance and monitoring of the transplanted plant species of conservation importance were carried out in the reporting period.

Environmental site inspections were carried out during the reporting period.

Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.

There were no notification of summons or prosecution recorded in the reporting period. One (1) environmental complaint related to both Contract 2 and Contract 3 was received.

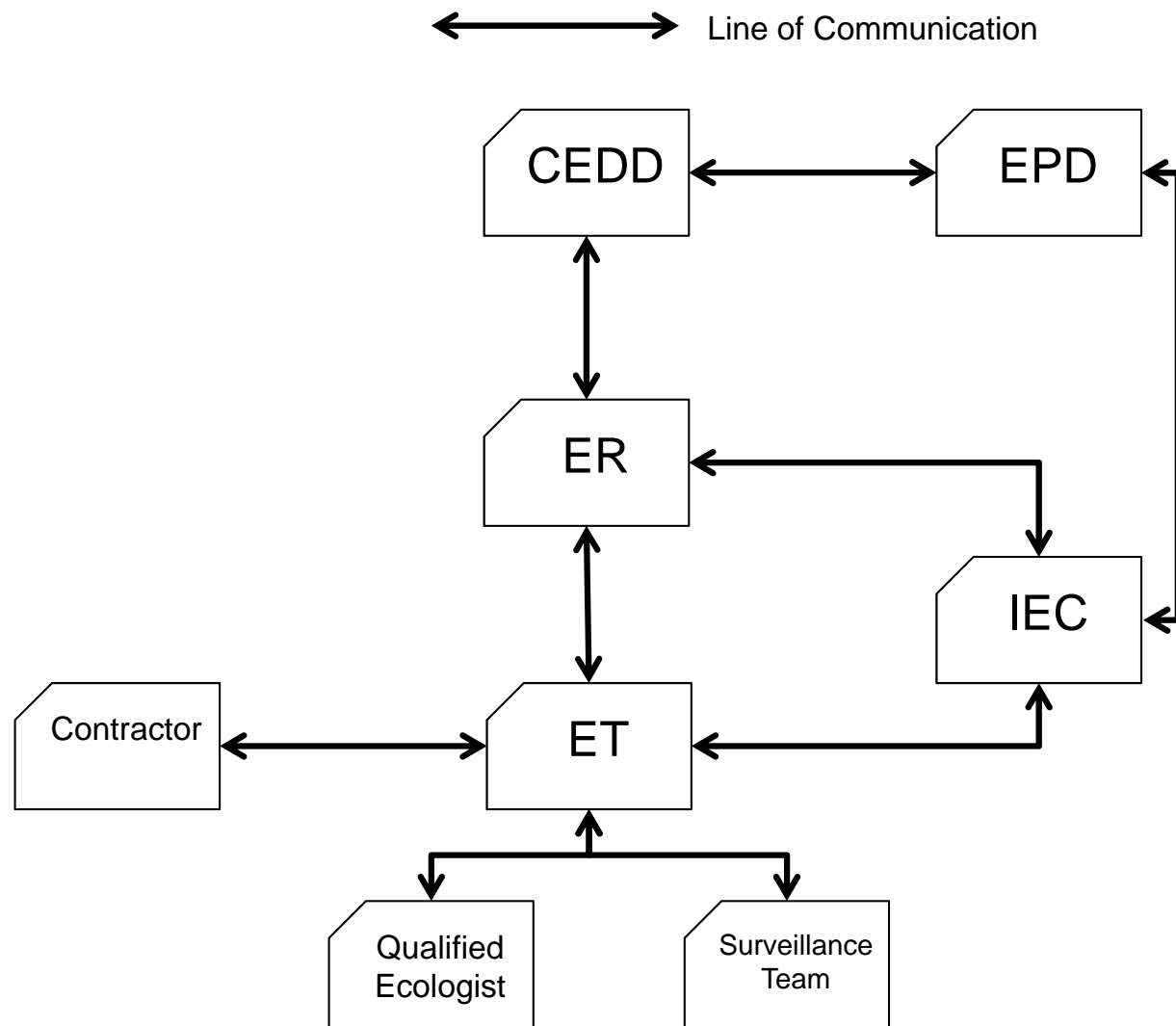
Investigation was conducted for the environmental complaint in accordance with the complaint handling process as stated in the Complaint Management Plan.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



ANNEX A

PROJECT ORGANISATION





## ANNEX B

## ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

## Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

**Note:** Chapters 1 to 2 of the EIA report present the background information of the Project, identified concurrent projects, objectives and scope for various environmental aspects, and description on alternative options and construction description. Chapters 3 to 12 of the EIA report present the EIA findings and mitigation measures are described below with cross-reference to the EIA report. Chapters 13 to 15 describe the environmental monitoring requirements, summary of environmental outcomes and conclusion.

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Common Mitigation Measures (Applicable to ALL Project Components, including DPs and Non-DPs)</i>							
<i>Construction Dust Impact</i>							
S3.4.6	D1	Water spraying every hour on exposed worksites and haul road.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIAO criteria</li> </ul>
S3.4.6	D2	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIAO criteria</li> </ul>
S3.4.6	D3	<p>The following dust suppression measures should be incorporated to control the dust nuisance throughout the construction phase:</p> <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>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• APCO</li> <li>• To control the dust impact to meet HKAQO and TM-EIAO criteria</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<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> <li>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;</li> <li>When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;</li> <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>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens,</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;</p> <ul style="list-style-type: none"> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</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> <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>					
S3.4.6	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected dust monitoring stations	Construction stage	<ul style="list-style-type: none"> <li>TM-EIAO</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<b>Construction Noise</b>							
S4.3.4	N1	Implement the following good site management practices: <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;</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO
S4.3.4	N2	Use of quiet plant which should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO
S4.3.4	N3	Install movable temporary noise barriers (typical design is wooden framed barrier with a small-cantilevered upper portion of superficial density no less than 7kg/m <sup>2</sup> on a skid	Screen the noisy plant items to be used at all	Contractor	All construction sites where	Construction stage	• Annex 5, TM-EIAO

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		footing with 25mm thick internal sound absorptive lining), and full enclosure, screen the noisy plants including air compressors, generators etc.	construction sites		practicable		
S4.3.4	N4	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected noise monitoring stations	Construction stage	• TM-EIAO
<b>Operational Noise (Road Traffic Noise)</b>							
S4.5.4	N5	<p>Provide a series of noise mitigation measures including low noise surfacing material, noise barriers, facades with no openable window, school boundary walls and architectural fins before occupation of the protected NSRs. Locations of noise mitigation measures are stated as following:</p> <p>Year 2023:</p> <ul style="list-style-type: none"> <li>• Facade with no openable window at B1-1 and B1-2 for TCE; TCV-6 for TCW</li> <li>• 1.5m long architectural fin at B1-1 and B1-2 for TCE</li> <li>• Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39</li> <li>• Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24</li> <li>• Approx. 210m long LNRS along Chung Mun Road</li> <li>• Approx. 160m long LNRS along Road L24</li> <li>• Approx. 160m long LNRS along Road L30</li> </ul> <p>Year 2025:</p> <ul style="list-style-type: none"> <li>• Facade with no openable window at B1-1, B1-2, D1-1,</li> </ul>	Reduce operation noise from road traffic	Relevant government departments / Private developers	Refer to Figure 6.1, Figure 6.1a-b, Figure 6.2, Figures 6.2a-b, Figure 6.3, Figures 6.3a-d, Figure 6.4, and Figures 6.4a-e	Prior to operation of the Project for existing NSRs. While for mitigation measures to protect planned NSRs, it should be constructed before population intake of planned NSRs.	• TM-EIAO

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>D1-2, D2-3 and D2-4 for TCE; TCV-6 for TCW</p> <ul style="list-style-type: none"> <li>1.5m long architectural fin at B1-1, B1-2 and D2-4 for TCE; TCV-1 for TCW</li> <li>Approx. 60m long, 5m high school boundary wall along Road L3</li> <li>Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3</li> <li>Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39</li> <li>Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24</li> <li>Approx. 210m long LNRS along Chung Mun Road</li> <li>Approx. 160m long LNRS along Road L24</li> <li>Approx. 160m long LNRS along Road L30</li> </ul> <p>Year 2027:</p> <ul style="list-style-type: none"> <li>Facade with no openable window at A1-1, A1-2, A2-1, A2-2, A2-3, A2-4, B1-1, B1-2, D1-1, D1-2, D2-3 and D2-4 for TCE; TCV-6 for TCW</li> <li>1.5m long architectural fin at A2-1, A2-4, B1-1, B1-2 and D2-4 for TCE;</li> <li>1.8m long architectural fin at A1-1, A1-2, A2-1 and A2-4</li> <li>Approx. 60m long, 5m high school boundary wall along Road L3</li> <li>Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3</li> <li>Approx. 50m long, 4m high school boundary wall at</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>possible school development near Tung Chung Area 39</p> <ul style="list-style-type: none"> <li>• Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24</li> <li>• Approx. 210m long LNRS along Chung Mun Road</li> <li>• Approx. 160m long LNRS along Road L24</li> <li>• Approx. 160m long LNRS along Road L30</li> </ul> <p>Year 2045:</p> <ul style="list-style-type: none"> <li>• Facade with no openable window at A1-1, A1-2, A2-1, A2-2, A2-3, A2-4, B1-1, B1-2, C1-1, C2-1, C2-2, D1-1, D1-2, D2-3, D2-4, E1-4 and E1-5 for TCE; TCV-1 and TCV-6 for TCW</li> <li>• 1.5m long architectural fin at A2-1, A2-4, B1-1, B1-2, C1-1 and D2-4 for TCE; TCV-1 for TCW</li> <li>• 1.8m long architectural fin at A1-1, A1-2, A2-1, A2-4 and C1-1</li> <li>• Approx. 100m long, 5m high absorptive vertical barrier along Road D3</li> <li>• Approx. 50m long, 5m high absorptive vertical barrier with 3m cantilevered arm at 45° along Road L7</li> <li>• Approx. 60m long, 5m high school boundary wall along Road L3</li> <li>• Approx. 70m long, 5m high school boundary wall with 3m cantilevered arm at 45° along Road L3</li> <li>• Approx. 80m long, 4m high school boundary wall along Road L2</li> <li>• Approx. 40m long, 3m high school boundary wall along Road L2</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<ul style="list-style-type: none"> <li>Approx. 50m long, 4m high school boundary wall at possible school development near Tung Chung Area 39</li> <li>Approx. 120m long, 5m high vertical barrier with 3m cantilevered arm at 45° at the corner at junction between Chung Mun Road and Road L24</li> <li>Approx. 210m long LNRS along Chung Mun Road</li> <li>Approx. 160m long LNRS along Road L24</li> <li>Approx. 160m long LNRS along Road L30</li> </ul>					
<b>Operational Noise (Fixed Noise)</b>							
S4.6.4	N6	<p>For existing and planned NSRs which are located near to the proposed noise sources, the following tentative noise mitigation measures are considered:</p> <ul style="list-style-type: none"> <li>All the pumps should be enclosed inside building structures;</li> <li>Proper selection of quiet plant to reduce the tonality at NSRs;</li> <li>Installation of silencer / acoustic enclosure / acoustic louvers for the exhaust of ventilation system.</li> <li>For underground train stations, sound attenuators with sufficient attenuations can be installed to the ventilation shafts.</li> <li>Openings of ventilation system should be located away from NSRs.</li> </ul>	Reduce operation fixed noise	Relevant government departments / Future Operator	All plant rooms where practicable	Prior to operation of the Project	<ul style="list-style-type: none"> <li>Noise Control Ordinance and its TM, TM-EIAO</li> </ul>
<b>Operational Noise (Rail Noise)</b>							

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S4.8.4	N7	<p>Before Phase 1 is occupied:</p> <ul style="list-style-type: none"> <li>• Facade with no openable windows for residential block at B1-2</li> <li>• 1.5m long architectural fin at B1-2</li> </ul> <p>Before Phase 3 is occupied:</p> <p>It should be noted that Railway Stations at TCE and TCW and its associated railway system is a Designated Project under Item A.2 of Schedule 2 of TM-EIAO. Hence, the proposed mitigation measures are tentative for cumulative assessment purpose in this EIA and all the mitigation measures will be revised by the railway operator during their Schedule 2 EIA.</p> <ul style="list-style-type: none"> <li>• Approx. 325m long, semi enclosure along the tracks of Tung Chung Line facing B0-2 and COM-1</li> <li>• Approx. 210m long, semi enclosure along the tracks of Tung Chung Line facing A1-2 and C1-1</li> <li>• Approx. 390m long, semi enclosure along the track of Tung Chung Line to Tung Chung direction facing C1-1 to C2-1</li> <li>• Approx. 630m long, semi enclosure along the track of Tung Chung Line to Hong Kong direction facing C1-1 and C2-1</li> </ul>	Reduce operation rail noise	Relevant government departments / Future Operator	Refer to Figure 6.1, Figure 6.1a-b, Figure 6.2, Figures 6.2a-b, Figure 6.3, Figures 6.3a-d, Figure 6.4, and Figures 6.4a-e	Prior to final population intake	<ul style="list-style-type: none"> <li>• Noise Control Ordinance and its TM, TM-EIAO</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<b>Water Quality (Construction Phase)</b>							
S5.4.3	W1	<p><u>General Construction Activities</u></p> <p>In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), best management practices should be implemented on site as far as practicable. The best practices are detailed below:</p> <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. Channels, earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.;</li> <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. 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</li> </ul>	To minimize water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	<ul style="list-style-type: none"> <li>• Water Pollution Control Ordinance</li> <li>• ProPECC PN1/94</li> <li>• TM-EIAO</li> <li>• TM-DSS</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>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;</p> <ul style="list-style-type: none"> <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 slope surfaces should be covered by tarpaulin or other means;</li> <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>• 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) 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</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>directed into foul sewers;</p> <ul style="list-style-type: none"> <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> <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 wheel-wash 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</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		<p>receivers nearby;and</p> <ul style="list-style-type: none"> <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 sewage or wastewater into the water bodies, mangroves and open sea.</li> </ul>					
S5.4.3	W2	<p><u>Sewage from workforce</u></p> <ul style="list-style-type: none"> <li>Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance;</li> <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>	To minimize water quality from sewage effluent in construction phase	Contractor	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> </ul>
S5.4.3	W3	<p><u>Construction Works and Bridge Works near Tung Chung Stream</u></p> <ul style="list-style-type: none"> <li>Use precast structures or other similar approaches</li> </ul>	To prevent any construction works in river and avoid any direct water quality impact to Tung Chung Stream	Contractor	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>ProPECC PN1/94</li> </ul>
S5.4.3	W4	<p><u>Construction Works of Sewage Pumping Stations</u></p> <ul style="list-style-type: none"> <li>A buffer zone of about 20m or about 30m will be zoned to</li> </ul>	To avoid any direct water quality impact to Tung Chung Stream	Contractor	All construction sites where	Construction stage	<ul style="list-style-type: none"> <li>ProPECC PN1/94</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		prevent any construction works near river.			practicable		
S5.4.3	W5	<u>Construction Work of Fresh Water and Salt Water Reservoirs</u> <ul style="list-style-type: none"> <li>Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage.</li> </ul>	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.4.3	W6	<u>Construction of Storm Water Management Facilities and Polder Scheme</u> <ul style="list-style-type: none"> <li>Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage.</li> </ul>	To avoid any direct water quality impact to Tung Chung Stream	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.4.3	W7	<u>Groundwater and Runoff for Tunnel Works</u> <ul style="list-style-type: none"> <li>Cut-and-Cover method for the underpass at Road D1 in Tung Chung East to minimise the intrusion of groundwater. Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters or drainage.</li> </ul>	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94
S5.5.8	W8	<u>Good Management Practice in Construction Phase</u> <p>The following good site management practices shall be adopted for the filling works:</p> <ul style="list-style-type: none"> <li>Water quality monitoring shall be implemented to ensure effective control of water pollution and recommend additional mitigation measures required;</li> <li>The decent speed of grabs shall be controlled to minimize the seabed impact and to reduce the volume of over-dredging;</li> <li>A perimeter silt curtain shall be installed during the entire</li> </ul>	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	• ProPECC PN1/94

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		reclamation periods; <ul style="list-style-type: none"> <li>Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;</li> <li>Excess materials shall be cleaned from the decks and exposed fittings of barges before the vessels are moved;</li> <li>Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly;</li> <li>Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; and</li> <li>The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.</li> </ul>					
S5.5.8	W9	<ul style="list-style-type: none"> <li>The recovered C&amp;D materials for filling would be ensured no floating or non-inert material by visual inspection, quality assurance, etc.</li> </ul>	To avoid water quality impact	Contractor	All construction sites where practicable	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<b>Water Quality (Operational Phase)</b>							
S5.6.10	W10	<p>The following mitigation measures will be implemented to TCV East, North and West SPS, upgraded CMRSPS, proposed TCE West SPS and TCE East SPS</p> <ul style="list-style-type: none"> <li>• 100% standby pump capacity with spare pump of 50% pump capacity</li> <li>• Dual-feed power supply</li> <li>• Wet well storage providing up to 6-hours ADWF capacity (equivalent to about 4 hours of response time during peak flow condition); and</li> <li>• Emergency communication mechanism amongst relevant government departments.</li> </ul>	To prevent the impact due to the emergency discharge at TCW and TCE	DSD	Proposed Sewage Pumping Station at TCW and TCE	Operational Stage	<ul style="list-style-type: none"> <li>• DSD's Sewerage Manual</li> </ul>
S5.6.10	W11	<p>The following mitigation measures will be implemented to gravity sewers and rising mains</p> <ul style="list-style-type: none"> <li>• Adopt high density polyethylene (HDPE) pipe for proposed gravity sewers and rising mains.</li> <li>• Further protection on proposed rising mains with concrete surround will be provided to mitigate the risk of bursting.</li> </ul>	To minimize the risk of bursting and hence bursting discharge from gravity sewers and rising mains	DSD	Proposed rising mains within TCE and TCW	Operational Stage	-
S5.6.10	W12	<p><u>Maintenance Dredging for the Proposed Marina</u></p> <p>Silt curtain should be deployed to reduce the sediment dispersion from the dredging inside the marina.</p>	To reduce the sediment dispersion	Future operator	Proposed marina at TCE	Operational Stage	-

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Sewage and Sewerage Treatment Implications</i>							
S6.5.4	SS1	<p><u>Emergency Discharge of Proposed TCV West SPS, TCV East SPS, TCV North SPS and Upgraded CMRSPS</u></p> <p>The following mitigation measures will be implemented to TCV East, North and West SPS, and upgraded CMRSPS:</p> <ul style="list-style-type: none"> <li>• 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use</li> <li>• Twin rising mains</li> <li>• Dual-feed power supply</li> <li>• Emergency storage facilities up to 6-hours ADWF capacity; and</li> <li>• Emergency communication mechanism amongst relevant government departments.</li> </ul>	To prevent the impact due to the emergency discharge at TCW	DSD	Proposed Sewage Pumping Station at TCW	Operational stage	N/A
S6.5.4	SS2	<p><u>Emergency Discharge of Proposed TCE West SPS and TCE East SPS</u></p> <p>In order to minimize the impact due to the emergency discharge, the following precautionary measures shall be included in the design of sewage pumping station:</p> <ul style="list-style-type: none"> <li>• 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use</li> <li>• Twin rising mains</li> <li>• Dual-feed power supply</li> <li>• Emergency storage facilities up to 6-hours ADWF capacity; and</li> <li>• Emergency communication mechanism amongst relevant</li> </ul>	To minimize the impact due to the emergency discharge at TCE	DSD	Proposed Sewage Pumping Station at TCE	Operational stage	N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		government departments.					
S6.5.4	SS3	<p>The following mitigation measures will be implemented to prevent pipe bursting on Rising Mains within TCE and TCW:</p> <ul style="list-style-type: none"> <li>• Strong pipe – use HDPE pipe with welded joints</li> <li>• Concrete encasement – concrete surround all rising mains</li> </ul>	To minimize the risk of bursting and hence bursting discharge from gravity sewers and rising mains	DSD	Proposed rising mains within TCE and TCW	Operational stage	N/A

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<b>Waste Management (Construction Waste)</b>							
S7.4.1	WM1	<p><u>Good Site Practices</u></p> <p>The following good site practices are recommended throughout the construction activities:</p> <ul style="list-style-type: none"> <li>• nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <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>• imposition of penalty system on Contractors' improper behaviours when illegal dumping and landfilling outside their respective construction sites, i.e. on nearby farmlands and riverbanks, are reported;</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; and</li> <li>• the contractor should prepare a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 for construction phase. The EMP should be submitted to the Engineer for approval. Mitigation measures proposed in the EIA Report and the EM&amp;A Manual should be adopted.</li> </ul>	Minimize waste generation during construction	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• Waste Disposal Ordinance</li> </ul>

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
S7.4.1	WM2	<p><u>Waste Reduction Measures</u></p> <p>Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction:</p> <ul style="list-style-type: none"> <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> <li>• plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste;</li> <li>• sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.);</li> <li>• provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	Reduce waste generation	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• Waste Disposal Ordinance</li> </ul>
S7.4.1	WM3	<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; and</li> <li>• Depends on actual site activities, certain locations within the site area would be used for storage of waste to enhance reuse. However, there would not be any designated location for storage of waste, and the storage locations would need to be adjusted to suite actual site conditions;</li> </ul>	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• Land (Miscellaneous Provisions) Ordinance</li> <li>• Waste Disposal Ordinance</li> <li>• ETWB TCW No. 19/2005</li> </ul>

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S7.4.1	WM4	<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> <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>	Minimize waste impacts from storage	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>
S7.4.1	WM5	<p><u>Excavated and C&amp;D Materials</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 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, so as to avoid the illegal dumping and landfilling of C&amp;D materials on farmlands/ riverbanks at TCW;</li> </ul> <p>The recommended C&amp;D materials handling should include:</p>	Minimize waste impacts from excavated and C&D materials	Contractor	All construction sites	Construction Stage	<ul style="list-style-type: none"> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> <li>Project Administrative Handbook for Civil Engineering Works, 2012 Edition</li> </ul>

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		<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> </ul>					
S7.4.1	WM6	<u>Provision of Wheel Wash Facilities</u> Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area. Dust disturbance due to the trucks transportation to the public road network could be minimized by such arrangement.	Minimize waste impacts from trucks transportation	Contractor	All construction sites	Construction Stage	N/A
S7.4.1	WM7	<u>Excavated Contaminated Soil</u> As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater.	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction stage	<ul style="list-style-type: none"> <li>Practice Guide for Investigation and Remediation of Contaminated Land</li> </ul>
S7.4.1	WM8	<u>Excavated Marine Sediments</u> Reference has been made to the sediment testing results. Possible mitigation measures to handle the contaminated/uncontaminated sediment are summarized as follows. <ul style="list-style-type: none"> <li>All construction plant and equipment shall be designed and maintained to minimise the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location.</li> <li>All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.</li> <li>Adequate freeboard shall be maintained on barges to</li> </ul>	Handle excavated sediment	Contractor	All construction sites where applicable	Construction stage	<ul style="list-style-type: none"> <li>ETWB-TCW 34/2002</li> </ul>

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		ensure that decks are not washed by wave action.					
S7.4.1	WM9	<u>Dumping of excavated sediment</u> <ul style="list-style-type: none"> <li>Keep and produce logs and other records to demonstrate compliance and ensure journeys are consistent with designated locations</li> <li>Comply with the conditions in the dumping permit.</li> <li>All bottom dumping vessels (hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.</li> <li>The excavated sediment shall be placed into the disposal pit by bottom dumping.</li> <li>Contaminated marine mud shall be transported by split barge of not less than 750m<sup>3</sup> capacity and capable of rapid opening and discharge at the disposal site.</li> <li>Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Sediment adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.</li> <li>For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping into designated mud pit. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.</li> </ul>	Handle excavated sediment	Contractor	All construction sites where applicable	Construction stage	<ul style="list-style-type: none"> <li>ETWB-TCW 34/2002</li> </ul>
S7.4.1	WM10	<u>Chemical Waste</u>	Control the chemical waste and ensure proper	Contractor	All construction	Construction stage	<ul style="list-style-type: none"> <li>Waste Disposal</li> </ul>

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
		If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector. 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.	storage, handling and disposal.		sites		(Chemical Waste) General Regulation • Code of Practice on the Packaging, Labelling and Storage of Chemical Waste
S7.4.1	WM11	<u>General Refuse</u> <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 general refuse on a daily basis.</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance
S7.4.1	WM12	<u>Floating Refuse accumulated along the seawall</u> The floating refuse along seawall should be collected to avoid accumulation. In addition, proper seawall design should be employed, and regular checking and cleaning of floating refuse should be implemented.	Control floating refuse and ensure proper disposal	Contractor	Construction sites along seawall	Construction stage	• Waste Disposal Ordinance
<b>Waste Management (Operational Waste)</b>							
S7.4.2	WM13	<u>Illegal dumping and landfilling</u>	Prevent waste from	Relevant	All	Operational stage	

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		As a Development Permission Area (DPA) plan will be issued by the Town Planning Board as a temporary measure before the formal Outline Zoning Plan (OZP) for Tung Chung New Town Extension is adopted, statutory right to guide and control the development and use of land would be authorised. Should there be illegal dumping and landfilling observed/ reported on nearby farmlands and riverbanks, the government authority should take all necessary actions including but not limited to prosecution to remediate the circumstances.	illegal dumping and landfilling	government departments	construction sites		
S7.4.2	WM14	<u>Municipal Solid Waste</u> <ul style="list-style-type: none"> <li>A reputable waste collector should be employed to remove general refuse on a daily basis.</li> <li>A 4-bin recycling system for paper, metals, plastics and glass should be adopted together with a general refuse bin. They should be placed in prominent places to promote waste separation at source. All recyclable materials should be collected by recyclers.</li> </ul>	Remove general refuse generated from the proposed development	FEHD/ Relevant Operators	All construction sites	Operational stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>
S7.4.2	WM15	<u>Chemical Waste</u> <ul style="list-style-type: none"> <li>Localized chemical waste storage areas should be located close to the source of waste generation for temporary storage. Drum-type containers with proper labelling should be used to collect chemical wastes for storage at the designated areas.</li> <li>A licensed collector should be employed for the chemical waste collection and the chemical wastes should be disposed at an appropriate facility, such as Chemical Waste Treatment Centre (CWTC) in Tsing Yi.</li> <li>Collection receipts issued by the licensed collector showing the quantities and types of chemical waste taken off-site and details of the treatment facility should be kept for record.</li> </ul>	Reduce chemical waste due to waste handling	Contractors/ Relevant Operators	All construction sites	Operational stage	

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S7.4.2	WM16	<u>Floating Refuse accumulated along seawall</u> <ul style="list-style-type: none"> <li>The floating refuse along seawall should be collected to avoid accumulation.</li> </ul>	Control floating refuse and ensure proper disposal	MD	Along seawall	Operational stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>
S7.4.2	WM17	<u>Floating Refuse inside Marina</u> <ul style="list-style-type: none"> <li>Floating refuse at the marina will be collected and disposed by the licensed waste collector and as required.</li> </ul>	Reduce floating refuse washing up onto marina by currents and wind	Future operator	Marina	Operational stage	<ul style="list-style-type: none"> <li>Waste Disposal Ordinance</li> </ul>

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<b>Land Contamination</b>							
S8.4.1	LC1	Undertaking environmental Site Inspection (SI) for all potentially contaminated sites as listed in the Contamination Assessment Plan (CAP).	Verify the land contamination potential before the commencement of construction	Project Proponent / Detailed Design Consultant / Private developer	All potentially contaminated sites as listed in the CAP	Prior to the construction stage	<ul style="list-style-type: none"> <li>• Annex 19 of the TM-EIAO, Guidelines for Assessment of Impact On Sites of Cultural Heritage and Other Impacts (Section 3 : Potential Contaminated Land Issues);</li> <li>• Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management;</li> <li>• Guidance Notes for Contaminated Land Assessment and Remediation; and</li> <li>• Practice Guide for Investigation and Remediation of Contaminated Land</li> </ul>

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							<ul style="list-style-type: none"> <li>Recommendations in Health Risk Assessment</li> </ul>
S8.4.2	LC2	<p>Re-appraisal would be required for the surveyed sites, other remaining areas of the PDAs and the works areas for the associated infrastructures because the development of these sites/ areas would only commence a number of years later, which may allow changes in the land usage of these sites and may give rise to potential land contamination issues.</p> <p>The Project Proponent's appointed consultant would prepare a supplementary CAP presenting the findings of the re-appraisal and strategy of the recommended SI, if required, and submit to EPD for review and approval.</p>	To assess the latest site situation and identify any potential additional hot spots and contaminated sites.	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Prior to the construction stage	Ditto
S8.5	LC3	After approval of the supplementary CAP and upon completion of the SI works, the PP should prepare and submit a Contamination Assessment Report (CAR) for all potentially contaminated sites listed in the CAP to EPD for agreement.	Present the findings of SI and evaluate the level and extent of potential contamination	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Prior to the construction stage	Ditto
S.8.5	LC4	Preparation and submission of Remediation Action Plan (RAP) to EPD for agreement if land contamination is confirmed.	Recommend appropriate mitigation measures for the contaminated soil and groundwater identified in the	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining	Prior to the construction stage	Ditto

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			assessment if remediation is required		areas of the PDAs and works areas for the associated infrastructures		
S.8.5	LC5	Preparation and submission of Remediation Report (RR) to EPD for agreement.	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed CAR and RAP	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Prior to the construction stage	Ditto

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<b>Ecology ( Design Phase)</b>							
S9.8.1	EC1	Development under the Project have avoided all the recognised sites of conservation importance, including Country Parks,	To protect the recognised sites of conservation importance and habitats inside	PlanD	TCW	RODP	• Not available
S9.8.1	EC2	About 30m buffer zone at the two main branches and the joined outlet section of Tung Chung Stream; and about 20m buffer for the major tributary at Ngau Au of Tung Chung Stream	To protect the Tung Chung Stream	PlanD	Tung Chung Stream	RODP	• Not available
S9.8.2	EC3	Detailed designs should avoid the encroachment of important habitats (e.g. Fung Shui Wood) within the Project Site	To protect the important habitats within Project Site	PlanD	TCW	Design Phase	• Not available
S9.8.2	EC4	Detailed designs of noise barriers to prevent bird collision	To prevent bird collision	HyD	Noise barriers	Design Phase	• Guidelines on Design of Noise Barriers
S9.8.2	EC5	Measures and suitable designs of sewage pumping stations to prevent emergency discharge accidents in TCE and TCW <ul style="list-style-type: none"> <li>• 100% standby pumping capacity within each SPS, with spare pump up to 50% pumping capacity stockpiled in each SPS for any emergency use</li> <li>• Twin rising mains</li> <li>• Dual-feed power supply</li> <li>• Emergency storage facilities up to 6-hours ADWF capacity; and</li> <li>• Emergency communication mechanism amongst relevant government departments.</li> </ul>	To protect the water bodies from impacts due to emergency discharge in TCE and TCW	DSD	Proposed and Upgraded Sewage pumping stations at TCE and TCW	Design Phase	• DSD standards

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<b>Ecology ( Construction Phase)</b>							
S9.8.2	EC6	Adoption of non-dredged reclamation method	To maintain the marine water quality	Contractor	Reclamation area of TCE and Road P1	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.8.3	EC7	Compensation woodland planting	To compensate loss of woodland, fung shui wood and orchard	Contractor	Uphill of Sheung Lei Pai FSW and Tung Chung Road	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.8.3	EC8	Planting of emergent plant	To provide habitats for this Jhora Scrub Hopper, and to compensate the loss of their habitats (wet abandoned agricultural land) in northern section of Fong Yuen	DSD / Contractor	Inside the future River Park	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.8.3	EC9	Capture-and-translocation exercise	Minimize the potential impact to amphibian species of conservation importance including Romer's Tree Frog and Chinese Bullfrog due to site formation	For public works, provided by the government departments responsible for the construction of those public works or the site formation works .  For TCV-1 and	Public works near the eastern branch of Tung Chung Stream, in particular 1) the River Park, 2) the Distributor Road along	Capture-and-translocation exercise before commencement of site formation	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> <li>• Explanatory statement of the OZP (for private lots)</li> </ul>

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EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
				TCV-5, where the lands within mostly belong to private lots, the future project proponents of those private lots, via the established mechanism for land transaction application.	the eastern branch of Tung Chung Stream, 3) the road upgrade along the existing Shek Mun Kap Road, and 4) the attenuation and treatment ponds in TCV-k, TCV-e, TCV-l, TCV-c, and TCV-n.  Also be required in private lands in TCV-1 and TCV-5		
S9.8.3	EC10	Preservation and/or Transplantation of plant species of conservation importance and the following monitoring of preserved/transplanted plant individuals	Protection of plant species of conservation importance	For public works, provided by the government departments responsible for the construction of those public works or the site formation works.	Within construction sites  All areas for public works  Also be required in private lands	For preservation and/or transplantation, before commencement of site formation.	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> <li>• Explanatory statement of the OZP (for private lots)</li> </ul>

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				For TCV-1, where the lands within mostly belong to private lots, the future project proponents of those private lots, via the established mechanism for land transaction application.	in TCV-1.		
S9.8.3	EC11	Defining and maintaining construction site boundaries (including erection of site hoarding, fences etc.)	Screen construction disturbance to the nearby habitats	Contractor	Along the boundary of construction sites and buffer zones of Tung Chung Streams, along the boundary of mature woodland and Fung Shui Wood, and along the boundary between TCV-6 and the middle section of Fong Yuen	Before commencement of site formation	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.8.3	EC12	Protection of Tung Chung Stream	Minimize the potential water pollution due to	Contractor	Within construction	Construction	<ul style="list-style-type: none"> <li>• EIA</li> </ul>

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			construction of road crossings or other works near Tung Chung Stream		sites	phase	• Contractual requirements
S9.8.3	EC13	Implementation of standard site practices	Minimize the potential impact due to dust, noise and runoff during construction phase	Contractor	Within construction sites	Construction phase	• EIA • Contractual requirements
S9.8.4	EC14	Adopting Eco-shoreline design	To mitigate the impact of the marine loss	CEDD	Along future seawall	Construction stage	• EIA • Contractual requirements
S9.8.4	EC15	Strict enforcement on no-dumping	Minimise the potential impact to marine habitats	Contractor	In reclamation area as well as all works area and travel route of works vessels	Before and during construction phase	• EIA • Contractual requirements
S9.8.4	EC16	Spill response plan	Minimise the potential impact to marine habitats	Contractor	In reclamation area as well as all works area and travel route of works vessels	Before and during construction phase	• EIA • Contractual requirements
S.9.8.4	EC17	Control and minimization of marine traffic by including using larger-sized barges, land transportation of materials, reuse of excavation and C&D materials and speed limits &	Reduce marine traffic	Contractor	In reclamation area as well	Construction phase	• EIA • Contractual

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		regular routes of works vessels			as all works area and travel route of works vessels		requirements
S9.8.4	EC18	Dolphin exclusion zone and dolphin watching plan	Protection of CWD	Contractor	In reclamation area as well as all works area	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.8.4	EC19	Speed limits and regular routes of works vessels; Prepare and submit a “Works Vessel Travel Route Plan”	Protection of CWD	Contractor	In reclamation area as well as all works area	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.11.1	EC20	Monitoring of compensatory planting woodland	Monitor the survival of trees and establishment of the woodland	CEDD/ Contractor	Areas of compensatory woodland planting	Quarterly for 3 years after completion of planting works	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S9.11.1	EC21	Monitoring of translocated amphibians	Monitor the effectiveness of the translocation programme	Public works: Responsible government departments / Contractor  Private lots: Private developers	Release sites for translocated amphibians	After translocation exercise.  At least three surveys in each release site during the breeding season, preferably monthly between April and June,	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> <li>• Explanatory statement of the OZP (for private lots)</li> </ul>
S9.11.1	EC22	Monitoring of preserved / transplanted plant species	Monitor and evaluate	Public works:	Construction	After	<ul style="list-style-type: none"> <li>• EIA</li> </ul>

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			the effectiveness of the preservation and transplantation programme.	Responsible government departments / Contractor  Private lots: Private developers	sites for preserved plants; recipient sites for transplanted plants	transplantation or preservation.  For transplanted individuals, for two years, monthly for the first year, and then quarterly for the second year.  For the preserved individuals, monthly throughout the construction.	<ul style="list-style-type: none"> <li>• Contractual requirements</li> <li>• Explanatory statement of the OZP (for private lots)</li> </ul>
S9.11.1	EC23	Monitoring of Tung Chung Stream and Wong Lung Hang Stream EISs	Protect the EISs	Contractor	Tung Chung Stream and Wong Lung Hang Stream	Construction phase and post-construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
9.11.2	EC24	Monitoring of Tung Chung Bay and Tai Ho Wan	Protect Tung Chung Bay and Tai Ho Wan	Contractor	Tung Chung Bay and Tai Ho Wan	Construction phase and post-construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
<b>Ecology (Operational Phase)</b>							
S9.11.1	EC25	Monitoring of emergent plant inside River Park	Monitor the survival of emergent plant	DSD/ Contractor	Three months after completion of planting in future River Park	Quarterly for 2 years after completion of planting works	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>

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9.11.2	EC26	Eco-shoreline monitoring	Monitor the colonisation and establishment of fauna and/or flora, water quality, and recruitments of fisheries species	CEDD/ Contractor	Eco-shoreline at TCE PDA reclamation	Post-construction phase, twice in wet and dry seasons respectively, at least 3 years, subject to review	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>

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<b>Fisheries</b>							
S10.8	F1	Good Site Practices	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S10.8	F2	No dumping	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S10.8	F3	Spill response plan	To protect the fisheries resources	Contractor	In reclamation area	Construction phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S10.9	F4	Follow the mitigation measures proposed in the water quality assessment for the construction and operation phases of the project.	To protect the fisheries resources	Contractor	Waters in Northern Lantau	Construction phase and operation phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S10.9	F5	Follow the mitigation measure of eco-shoreline in ecology chapter for the construction and operation phases of the project.	To enhance the fisheries resources	Contractor	Eco-shorelines	Construction phase and operation phase	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>

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<b>Landscape and Visual (Construction Phase)</b>							
S11.7 MM1	LV1	<p>Optimisation of Construction Areas &amp; Providing Temporary Landscape on Temporary Construction – Construction areas' control shall be enforced, where possible, to ensure that the landscape and visual impacts arising from the construction activities are minimised.</p> <p>It includes reduction of the extent of working areas and temporary works areas, management on storing and using the construction equipment and materials, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro-seeding on temporary stockpiles and reclamation areas to alleviate the potential impacts.</p>	Minimise the landscape and visual impacts arising from the construction activities	Relevant Government Departments / Private Sector	Through-out Tung Chung West (TCW) area and Tung Chung East (TCE) area	Construction Phase	
S11.7 MM2	LV2	<p>Minimize Topographical Change – The footprint of construction elements and temporary works areas should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls and cut slopes should be considered as appropriate.</p> <p>To minimize landform changes and land resumption, earthworks and engineered slopes should be designed to be a visually interesting, compatible with the surrounding landscape and to mimic the natural contouring and terrain as appropriate.</p>	Reduce topographical changes and minimize land resumption	Relevant Government Departments / Private Sector	Through-out TCW area	Prior to Construction & Construction Phase	<ul style="list-style-type: none"> <li>• GEO Publication No/1/2011, Technical Guidelines on Landscape Treatment for Slopes</li> </ul>
S11.7 MM3	LV3	Preservation of Potentially Registerable OVTs, Rare and Protective Vegetation – Existing trees to be retained within the Project Site should be carefully protected during construction. In particular Potentially Registerable OVTs are considered to be preserved according to ETWB	Protect and Preserve Trees	Relevant Government Departments / Private Sector	Onsite, particularly for TCW area	Prior to Construction & Construction Phase	<ul style="list-style-type: none"> <li>• ETWB TC(W) No.29/2004 and DEVB TC(W)</li> </ul>

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		<p>Technical Circular (Works) No. 29/2004. Rare and Protective Vegetation shall be protected following Forestry Regulations (Cap.96) and Protection of Endangered Species of Animals and Plants Ordinance (Cap.586). Detailed Tree Protection Specification shall be provided in the Contract Specification according to DEVB TCW No. 10/2013 Tree Preservation. Following DEVB (GLTM) Guidelines for Tree Preservation during Development, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.</p> <p>A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.</p>					<p>No.10/2013.</p> <ul style="list-style-type: none"> <li>• Greening, Landscape and Tree Management Section (GLTM) of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)</li> </ul>
S11.7 MM4	LV4	<p>Transplanting of Existing Trees – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor locations within the site and not held in a temporary nursery as far as possible.</p> <p>A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with DEVB TCW 10/2013 and LAO PN 7/2007 and final locations of transplanted trees should be agreed prior to commencement of the work.</p> <p>For trees associated with highways e.g. roadside planting</p>	Transplant Trees where suitable for transplantation	Relevant Government Departments / Private Sector	Onsite where possible, otherwise consider offsite locations	Prior to Construction & Construction Phase	<ul style="list-style-type: none"> <li>• DEVB TC(W) No.10/2013 and LAO PN7/2007</li> <li>• HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance</li> </ul>

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		along highways, that are unavoidably affected and should be transplanted. HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					<p>Ambit</p> <ul style="list-style-type: none"> <li>GLTM of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)</li> </ul>
S11.7 MM5	LV5	<p>Screen hoarding – To reduce negative visual impact, construction site hoarding should be erected around the site to screen pedestrian level views into the construction area from visual sensitive receivers.</p> <p>Hoarding design should consider greening measures such as colour and form should be adopted to improve its visual appearance.</p>	To screen undesirable views of the work site.	Relevant Government Departments / Private Sector	Through-out TCW and TCE areas	Construction Phase	
S11.7 MM6	LV6	Adopting Non-dredge Method for the Reclamation – In order to minimize the potential adverse impacts caused by the reclamation, a number of alternative construction methodologies has been critically examined. After considering all the options such as fully dredged, partially dredged and non-dredged methods for seawall construction and reclamation, non-dredged method for both the seawall construction and reclamation are recommended so as to minimize the generation of dredged sediment.	Minimize the potential adverse impacts caused by the reclamation	Relevant Government Departments / Private Sector	Through-out TCE area	Construction Phase	<ul style="list-style-type: none"> <li>Foreshore and Sea-bed (Reclamations) Ordinance (Cap.127)</li> </ul>
S11.7 MM7	LV7	Protection of Natural Rivers and Streams – For all the natural rivers and streams inside the development area, in accordance with ETWB TCW 5/2005, consideration of protection measures should be made to minimize any impacts from the construction works, especially those	<p>Protection of Natural Rivers and Streams</p> <p>Minimize the impacts from the construction works</p>	Relevant Government Departments / Private Sector	Through-out TCW area	Prior to Construction & Construction Phase	<ul style="list-style-type: none"> <li>EPD ProPECC PN1/94 Construction Site Drainage.</li> <li>DSD Technical</li> </ul>

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		development near Tung Chung Stream.  According to the latest RODP, a 30m buffer zone will be zoned as “CA”. Precast structures or other similar approaches will be used to prevent / minimise any construction works in river and thus to avoid any direct water quality impact. Good site management as stipulated in ProPECC PN1/94 will be fully implemented to avoid polluted liquid or solid wastes from falling into the river waters.					Circular No. 2/2004.  • ETWB TC(W) No.5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works
S11.7 MM8	LV8	Preservation of Natural Coastline – The natural coastline along the proposed “RO” of the RODP in TCW should be preserved. The remaining natural shorelines in Tung Chung Bay including sandy shores close to the Tung Chung old pier will be conserved as a Waterfront Park according to the latest RODP.	Preservation of Natural Coastline	Relevant Government Departments	Onsite where possible	Prior to Construction & Construction Phase	
S11.7 MM9	LV9	Providing Natural Rock Material/ Planting for Artificial Seawall – There would be inevitable permanent losses of marine waters (seabed and water column), and direct impacts on existing artificial seawalls due to the reclamation. To minimize the impacts, the design of the future seawall like ‘eco-shoreline’ could be improved to provide high ecological functions and mitigate the impact of the loss.  An ‘eco-shoreline’ is any shoreline which provides beneficial functions to the local ecosystem through a range of active or passive solutions, whilst providing coastal protection. By means of using natural rock materials for artificial seawall and considering to introduce a native vegetation buffer directly behind the top of seawalls as appropriate to create habitat, shelter and a source of food	Mitigate the impacts on existing artificial seawalls	Relevant Government Departments	Onsite where possible	Prior to Construction & Construction Phase	

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		for benefiting both terrestrial and aquatic species along the foreshore, these measures can help to enhance the ecological functions and ‘natural-look’ of the shoreline, and the potential impacts will be mitigated.					
<b>Landscape and Visual (Operational Phase)</b>							
S11.7 MM10	LV10	<p>Compensatory Planting – Compensatory planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under DEVB TCW No. 10/2013 and LAO PN 7/2007.</p> <p>The location of compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes including roadside planting, as well as the open areas within development lots.</p> <p>The species to be planted should be all native species, taken “Characteristics of Major Local Tree Species Propagated by AFCD” as a reference. A search of species to be planted will be conducted in a further detailed stage.</p>	Compensate for trees and shrubs lost due to the Project	Relevant Government Departments / Private Sector	Onsite where possible, particular-ly for TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• DEVB TC(W) No.10/2013 and LAO PN 7/2007.</li> <li>• GLTM of the Development Bureau, Guidelines on Tree Preservation during Development (April, 2015)</li> </ul>
S11.7 MM11	LV11	Woodland Restoration – A search of area to mitigate the loss of woodland has been conducted. Priority has been given to the practicability of compensation of woodland within the boundary of RODP. Given the nature of the project is to provide development opportunities to satisfy the needs for the society in general and the aspirations of local communities, compensation of woodland is only possible for the areas beyond the RODP. It is considered that the areas adjoining the woodlands near the existing services reservoirs, and hillsides to the east of Tung Chung Road, would be suitable locations. The advantage of these locations is that there are existing woodlands immediately	Reprovide areas of woodland to compensate for those areas of quality woodland lost	CEDD /AFCD	In areas identified and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• DEVB Technical Circular Works 10/2013- Tree Preservation</li> <li>• GLTM of the Development Bureau, Guidelines on Tree Preservation</li> </ul>

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		<p>downhill to the location and the Sheung Ling Pei Fung Shui Wood is further downhill behind Sheung Ling Pei Village, planting new woodland areas adjoining existing woodlands would form an ecological linkage and increase the overall habitat size, and hence would help to enhance the ecological and landscape values in the long run.</p> <p>It is noted that the compensation trees for landscape impacts will also be planted near the future service reservoirs. The tree species to be planted should be all native species for woodland compensation, and the two areas uphill to Sheung Ling Pei should also make reference to the existing tree species reported in Fung Shui Woods habitat.</p>					during Development (April, 2015)
S11.7 MM12	LV12	Screen Planting – Tall screen/buffer trees and shrubs should be planted to screen proposed structures such as roads and buildings. This measure will form part of the compensatory planting and will improve compatibility with the surrounding environment and create a pleasant pedestrian environment.	<p>To screen proposed structures</p> <p>Improve compatibility with the surrounding environment</p>	Relevant Government Departments	Through-out the working sites of the TCW and TCE areas	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>HyD HQ/GN/15– Guidelines for Greening Works along Highways.</li> </ul>
S11.7 MM13	LV13	Roadside Planting – Roadside greening is proposed alongside all roads within the possible developments. It will enhance local identity, if theme planting is used, and reduce visual impact through screening. At-grade road planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts.	<p>Soften the hard, straight edges and provide greening along the roads;</p> <p>Improve the visual amenity</p>	Relevant Government Departments	Along new roads, and On appropriate viaducts	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>HyD HQ/GN/15– Guidelines for Greening Works along Highways.</li> <li>Development Bureau Technical Circular Works No.2/2012 – Allocation of Space for Quality</li> </ul>

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							Greening on Roads

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S11.7 MM14	LV14	Aesthetic Design of Built Development – The planning of the revised RODP has considered reducing potential visual impacts, enhancing visual amenity and keeping visual corridors. The proposed development will ensure the building massing is compatible with its surroundings. To improve visual amenity, natural building materials could be used on building facades. For example, stone and timber should be considered for architectural features; light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should be considered for the façade treatment to reduce the visibility of the development components. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. It would only be implemented for public developments/projects.	Improve visual amenity of the new buildings, keep visual corridors and integrate as possible into the surrounding landscape	Relevant Government Departments	Through-out the TCW and TCE areas	Prior to Construction, Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• Hong Kong Planning Standards and Guidelines (HKPSG) issued by the Planning Department (As at Aug 2011);</li> <li>• PNAP APP-152, Sustainable Building Design Guidelines</li> </ul>
S11.7 MM15	LV15	<p>Maximise Greening on Structures – The Government has been actively promoting greening in buildings and structures such as bridges to improve the environment. This includes actively implementing rooftop greening or vertical greening, as where practicable to enhance the cityscape and mitigate the heat island effect in urban areas. For the new built forms in TCW and TCE, it is considered the implementation of the following greening measures could alleviate the landscape and visual impacts of new development and help the development blend in with its surrounding landscape:</p> <ul style="list-style-type: none"> <li>• Sky Garden: Refuge floors or voids in building mass formed by partial removal of floor plates on certain building storeys or provision of freed up areas on certain building storeys provide opportunities for sky gardens for the proposed built development. It can allow views through the development to the background formed by the natural hillsides and</li> </ul>	<p>Maximise Greening coverage</p> <p>Enhance visual amenity, create visual corridors and integrate as possible into the surrounding landscape</p>	Relevant Government Departments	On appropriate buildings and structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• Development Bureau Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects</li> <li>• PNAP APP-152, Sustainable Building Design Guidelines</li> </ul>

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		<p>enhance the visual amenity effectively. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be referred to. For private developments, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152.</p> <ul style="list-style-type: none"> <li>Green Roof: The Architectural Services Department completed the Study on Green Roof Application in Hong Kong in 2007 which reviewed the latest concepts and design technology of green roof and recommended technical guidelines suitable for application in Hong Kong. The study will be taken into account to the new buildings to be built in TCW and TCE. Landscape and visual impact can be alleviated and the landscape and visual value can be enhanced. For private development, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152. Relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be reference. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be referred to. For private developments, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152.</li> <li>Vertical Green: Planting of climbers to grow up</li> </ul>					

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		<p>vertical surfaces where appropriate (e.g. building edges), to soften hard structures and facilities. Relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be observed. For public developments, relevant technical document Technical Circular (Works) No. 3/2012 Site Coverage of Greenery for Government Building Projects by Development Bureau in 2011 shall be reference. For private development, it is only applicable to sites with inadequate greening coverage and should be implemented in accordance with Sustainable Building Design Guidelines PNAP APP-152.</p> <ul style="list-style-type: none"> <li>Greening on infrastructure: Planting could be provided on infrastructure such as bridges where appropriate to enhance greenery to soften its built edges. Screen planting could be provided near infrastructure to reduce any undesirable visual impacts.</li> </ul>					
S11.7 MM16	LV16	Noise barrier design – The visual impact of noise mitigation measures will be mitigated by appropriate detailed design, including suitable combination of transparent and sound absorbent materials, appropriate colour selection of panels and supporting structures, or provision of at-grade planting of trees, shrubs and/or climbers camouflage to the barriers, as well as design of supporting structures to incorporate a high level of quality and aesthetics. A combination of transparent panels at top and solid panels at bottom would lighten the visual impact, and at the same time maintain the attractiveness by using colourful panels. The noise barriers would be implemented for District Distributor Roads and Local Distributor Roads at both TCE and TCW area.	Minimize the visual impact from the structures of noise barriers	HyD	Noise barriers within the TCW and TCE areas	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>GLTM of the Development Bureau's Guidelines on Greening of Noise Barriers (April 2012).</li> <li>Guidelines on Design of Noise Barriers by HyD and EPD in 2003</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
S11.7 MM17	LV17	<p>Landscape Treatment for Polders &amp; Attenuation Ponds – There would be polders and attenuation ponds in TCW. While they are primarily used for receiving and treating surface runoff and alleviating the flood risk during heavy rainfall, the design of those has provided an opportunity to have a synergy to enhance both the ecological and landscape values together.</p> <p>Depending on detailed design, part of these attenuation ponds (mainly the biofiltration zone) could be refined in an appropriate manner, without compromising its primary functions of treating surface runoff and flood protection, to incorporate ecological and landscape design such as planting of aquatic plants and butterfly foodplant for providing the landscape and ecological enhancement.</p>	Enhance the landscape and visual value	DSD	Polders & Attenuation Ponds where possible	Prior to Construction, Construction Phase & Maintenance in Operation Phase	
<b><i>Landscape and Visual (Construction &amp; Operational Phase)</i></b>							
S11.7 MM18	LV18	<p>Landscaping on Slopes – Hydro seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where gradient and site conditions allow.</p> <p>In addition, landscape planting should be provided for the retaining structures associated with modified slopes where condition allow.</p>	Enhance landscape value, plant diversity and their visual appearance	CEDD	Onsite, particularly in TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• GEO Publication No.1/2011 Technical Guidelines on Landscape Treatment for Slopes by CEDD in 2011</li> </ul>
S11.7 MM19	LV19	Landscape Treatment on Channelized Watercourses – For the channelized watercourses in Tung Chung Stream that will be dechannelized, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate measures included ensuring the new watercourses match the existing as far as possible.	<p>Avoid direct impacts on the watercourse</p> <p>Improve the visual amenity</p>	CEDD	The channelized watercourses throughout the TCW area	Prior to Construction, Construction Phase & Maintenance in Operation Phase	<ul style="list-style-type: none"> <li>• Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location	Implementation Stage	Requirements and / or standards to be achieved
		Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion).					Considerations for River Channel Design
S11.7 MM20	LV20	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the construction stage. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	Minimize negative glare impact to adjacent VSRs	Relevant Government Departments / Private Sector	Through-out the TCW and TCE areas	Construction Phase & Operation Phase	

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Cultural Heritage Impact (Construction and Operational Phase)</i>							
S.12.5	CH1	<u>Terrestrial Archaeology</u> <ul style="list-style-type: none"> <li>Implement rescue excavations/ survey-cum-rescue excavations/ further surveys after land resumption and prior to any construction works (see <b>Figure 14.1</b> for the locations of rescue excavations/survey-cum-rescue excavations/further survey)</li> </ul>	1) Rescue excavations to salvage archaeological data and cultural materials 2) Survey-cum-rescue excavations to better locate and design the follow up rescue excavations 3) Further surveys to obtain sufficient data for formulation of appropriate mitigation measures	Contractor / Future Private Developer	After land resumption and prior to any construction works	After land resumption and prior to any construction works	<ul style="list-style-type: none"> <li>Guidelines for Cultural Heritage Impact Assessment</li> <li>TM-EIAO Annex 10 and Annex 19</li> <li>Antiquities and Monuments Ordinance</li> </ul>
S.12.5	CH2	<u>Terrestrial Archaeology</u> <ul style="list-style-type: none"> <li>Implement watching brief during construction phase (see <b>Figure 14.1</b> for the locations of watching brief)</li> </ul>	To identify and record any archaeological material or features revealed during construction phase	Contractor / Future Private Developer	During construction phase	During construction phase	

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>EM&amp;A Project</i>							
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	Control EM&A Performance	Project Proponent	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• EIAO Guidance Note No.4/2010</li> <li>• TM-EIAO</li> </ul>
S13.2 – 13.4	EM2	1) An Environmental Team needs to be employed as per the EM&A Manual. 2) Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. 3) An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Project Proponent	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• EIAO Guidance Note No.4/2010</li> <li>• TM-EIAO</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

Docum ent Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Works Vessel Travel Routes (Extracted from Works Vessel Travel Route Plan submitted under Condition 2.13 of the EP)</i>							
S3.2	WVTR1	All works vessels shall be equipped with Global Positional System (GPS) or equivalent automatic identification system (AIS) for real time tracking and monitoring of their travel routing, speed and anchorage points. The system shall be capable to record and analyse the travel routing, speed and anchorage points.	Control EM&A Performance	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S3.3.1	WVTR2	<p>1) Once approaching or leaving the entrance of the silt curtain, all vessels will travel at a speed no greater than 8 knots between the site and boundary of The Brothers Marine Park. The vessels can then navigate at normal speed (8-12 knots) after that distance unless other restrictions are imposed.</p> <p>2) If any dolphins are sighted within 250m of a vessel then the vessel will slow down to a speed no greater than 5 knots for at least 3 minutes after the last sighting.</p>	Protection of CWD	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S3.3.2	WVTR3	All captains and the supervising staff should undergo training to learn about local dolphins and porpoises. They should be trained to be aware of the protocol for dolphin friendly" vessel operation (refer to the Code of Conduct for Dolphin Watching Activities from AFCD).	Protection of CWD	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S3.3.2	WVTR4	Training on the requirements of the WVTRP would be provided for construction vessels' personnel to follow, which should include the details of the normal operational routings of the construction works vessels and reporting of deviations from the normal operational routings of the construction works vessels. The training course will be given to the licensed vessel captains by the trainers before commencement of work and refreshment course will be provided every quarter.	Protection of CWD	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

Docum ent Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Deployment of Silt Curtain(s) (Extracted from Silt Curtain Deployment Plan submitted under Condition 2.16 of the EP)</i>							
S4	SCD1	Before the start of the installation work, Qualified Ecologists with dolphin monitoring experience shall scan the exclusion zone for at least 30 minutes. If dolphins are observed in the exclusion zone, the installation work shall be delayed until the dolphins left the area.	Protection of CWD	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S4	SCD2	If dolphins are observed within the exclusion zone during the installation work, the relevant part of the work shall cease until the dolphins left the area.	Protection of CWD	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S5	SCD3	On-board supervisors will be assigned to check the condition of the silt curtain before commencement of works every day. An inspection checklist will be kept on site for record purpose.	Silt Curtain Integrity	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S5	SCD4	For the tentative arrangement of silt curtain under adverse weather, the silt curtain will not be temporary removed during adverse weather. However, related works will be suspended immediately if silt curtain is found any damaged.	Silt Curtain Integrity	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S5	SCD5	Diver inspection shall be carried out if necessary to inspect the installation and decommission of silt curtain to ensure proper installation and functioning of the silt curtain according to the design drawings. Nearby marine works will resume after repairing of the damaged silt curtains.	Silt Curtain Integrity	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>
S5	SCD6	Refuse around the silt curtain will be collected at regular intervals on a daily basis so that water behind the silt curtains will be kept free from floating debris.	Waste Management	Contractor	All marine constructi on sites	Construction stage	<ul style="list-style-type: none"> <li>• EIA</li> <li>• Contractual requirements</li> </ul>

## Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Post-planting Monitoring and Maintenance (Details to be provided after the submission of Detailed Compensatory Woodland Planting Plan as required under EP Condition 2.22)</i>							

## Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Use of New Low Noise Road Surfacing Material(s) (Details to be provided after the submission of Plan for Review of Use of New Low Noise Road Surfacing Material(s) as required under EP Condition 2.23)</i>							

### Environmental Mitigation Implementation Schedule – Tung Chung New Town Extension

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and / or standards to be achieved
<i>Follow-up actions to be taken by the Contractor and Dump Truck Drivers in case of Illegal Dumping and Landfilling of C&amp;D Materials (Extracted from Waste Management Plan submitted under Condition 2.24 of the EP)</i>							
S5.4	WM1	Investigation report will be prepared by the Contractor and submit to ER within 2 working days.	Control Performance EM&A	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• EP</li> <li>• Contractual requirements</li> </ul>
S5.4	WM2	The Contractor will discuss with ER for the follow up actions (e.g. warning letter, cease operation, etc.) if required.	Control Performance EM&A	Contractor	All construction sites	Construction stage	<ul style="list-style-type: none"> <li>• EP</li> <li>• Contractual requirements</li> </ul>



## ANNEX C

## STATUS OF SUBMISSIONS AND IMPLEMENTATION STATUS OF MITIGATION MEASURES UNDER EP

***Status of Submissions and Implementation Status of Mitigation Measures under EP***

<b>EP Condition</b>	<b>Submission / Implementation Status</b>	<b>Status</b>
2.1	Set up of Community and Professional Liaison Groups	Community and Professional Liaison Groups were set up.
2.1	Complaint Management Plan (for Contracts 1, 2, 3 and 7)	Updated Plan was submitted to EPD on 9 May 2025 and accepted by EPD on 21 May 2025
2.5	Employment of Qualified Ecologist(s)	Qualified Ecologists have been employed to carry out work relating to ecological aspects.
2.6	Employment of Surveillance Team	Surveillance Team has been employed to conduct regular site inspection.
2.11	Management Organizations (for Contracts 1, 2, 3 and 7)	Updated Submission was submitted to EPD on 26 June 2024 and accepted by EPD on 5 July 2024
2.12	Construction Works Schedule and Location Plans (for Contracts 1, 2, 3 and 7)	Updated Plan was accepted by EPD on 3 March 2023
2.13	Works Vessel Travel Route Plan (for Contract 3)	The updated Plan was accepted by EPD on 2 January 2025
2.14	Eco-shoreline Implementation Plan (for Contract 1)	Updated Plan was accepted by EPD on 24 July 2023
2.15	Dolphin Watching Plan (for Contract 1)	Updated Plan was submitted on 21 September 2018 and accepted by EPD on 12 October 2018
2.16	Silt Curtain Deployment Plan (for Contract 1)	Updated Plan was accepted by EPD on 24 April 2023
2.17	Spill Response Plan (for Contract 1)	Accepted by EPD
2.18	Plan on Provision of Buffer Zones	To be prepared no later than 3 months before the commencement of construction works at Tung Chung Valley. Refer to the EM&A Reports of TCW.
2.19	River Park Plan	To be prepared no later than 3 months before the commencement of construction works at Tung Chung Valley. Refer to the EM&A Reports of TCW.
2.20	Habitat Enhancement and Translocation Plan for Amphibian Species of Conservation Importance	To be prepared no later than 3 months before the commencement of construction works at Tung Chung Valley. Refer to the EM&A Reports of TCW.
2.21	Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance	Accepted by EPD on 9 December 2021
2.22	Detailed Compensatory Woodland Planting Plan	The Plan was submitted to EPD on 10 June 2022 and accepted with conditions by EPD on 23 June 2022
2.23	Plan for Review of Use of New Low Noise Road Surfacing Material(s)	Updated Plan for Road D4, Road L4 and Road L5 was submitted to EPD on 14 February 2025 and accepted by EPD on 10 March 2025.
2.24	Waste Management Plan (for Contracts 1, 2, 3 and 7)	Updated Plan was accepted by EPD on 18 May 2023

EP Condition	Submission / Implementation Status	Status
2.25	(i) no dredging of marine sediment shall be carried out for the Project	Completed
	(ii) all reclamation filling works shall be carried out within a leading seawall of at least 200m; and	Completed
	(iii) silt curtains surrounding the reclamation area shall be deployed in accordance with the Silt Curtain Deployment Plan	Completed
2.26	Implement Silt Curtain Deployment Plan and Spill Response Plan	Completed
2.27	Implement dolphin exclusion zone of 250m around the reclamation site at Tung Chung East during the installation of the perimeter silt curtains and any re-deployment of the perimeter silt curtains by Qualified Ecologist(s)	Completed
2.28	Once the perimeter silt curtains are installed or re-deployed, the Dolphin Watching Plan shall be implemented as part of the EM&A programme	Completed
2.29	(i) no underwater blasting and percussive piling shall be carried out for the Project; and	Completed
	(ii) air compressors and other noisy equipment mounted on works vessels shall be acoustically-decoupled	Completed
2.30	Implement Works Vessel Travel Route Plan	Updated Plan was accepted by EPD on 2 January 2025.
	Implement Eco-shoreline Implementation Plan	Under implementation
	Implement Dolphin Watching Plan	Completed
2.31	Implement Plan on Provision of Buffer Zones, River Park Plan, Habitat Enhancement and Translocation Plan for Amphibian Species of Conservation Importance, Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance and Detailed Compensatory Woodland Planting Plan	Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance and Detailed Compensatory Woodland Planting Plan are under implementation
2.32	Implement Plan for review of the use of new road surfacing material(s)	To be implemented
	Implement Waste Management Plan	Under implementation
2.33	Install noise barriers and low noise road surfacing at the extended Chung Mun Road and Road D3	To be implemented
	All noise mitigation measures implemented shall be properly maintained during the operation of the above roads	

EP Condition	Submission / Implementation Status	Status
2.34	Implement a deodouriser with an odour removal efficiency of at least 95% shall be installed, operated and maintained within each sewage pumping station. The exhaust of the deodouriser shall be oriented away from sensitive receivers; and all odourous facilities of each sewage pumping station shall be enclosed and negative pressure shall be maintained within the facilities.	To be implemented
2.35	Enclose all the pumps inside a building structure	To be implemented
2.36	(i) a 100% standby pumping capacity shall be installed and maintained	To be implemented
	(ii) a 50% spare pumping capacity shall be installed and maintained	To be implemented
	(iii) dual-feed power supply shall be installed and maintained; and	To be implemented
	(iv) an emergency facility with a 6-hour storage capacity of average dry weather flow shall be installed and maintained.	To be implemented



## ANNEX D

## STATUS OF STATUTORY ENVIRONMENTAL REQUIREMENTS

**Annex D**

**Status of Statutory Environmental Requirements**

Contract No.	Description	Location	Ref No.	Status
General	Environmental Permit	TCNTE Works Area	EP-519/2016	Granted on 9 Aug 2016
Contract No. NL/2020/02 (Contract 2)	Billing Account for Disposal of Construction Waste	-	Application No. 7040975	Approved on 29 Jul 2021
	Registration as Chemical Waste Producer	Working site of Contract No. NL/2020/02	WPN-5213-950-C4323-04	Issued on 17 Aug 2021
	Discharge License under Water Pollution Control Ordinance	Portion 3	WT00040695-2022	Validity from 14 Jun 2022 to 30 Jun 2027
		Portion 5A and 6	WT00040696-2022	Validity from 14 Jun 2022 to 30 Jun 2027
		HDD Area	WT00042688-2022	Validity from 3 Feb 2023 to 29 Feb 2028
	Billing Account for Disposal of Construction Waste	-	Application No. 7041004	Approved on 13 Jul 2021
Contract No. NL/2020/03 (Contract 3)	Registration as Chemical Waste Producer	Working site of Contract No. NL/2020/03	WPN-5213-950-B2500-07	Issued on 25 Aug 2021
	Construction Noise Permit	24 Hours Twin Rising Mains Pipe jacking Operation at Ying Tung Road	GW-RS0302-25	Validity from 23 Mar 2025 to 20 Sep 2025
		General Works in To Kau Wan	GW-RS0265-25	Validity from 24 Mar 2025 to 17 Sep 2025
		Main Reclamation Area and MDN Areas	GW-RS0505-25	Validity from 16 May 2025 to 14 Nov 2025
		Trucks Mobilization	GW-RS0342-25 <sup>(1)</sup>	Validity from 5 Apr 2025 to 4 Oct 2025
			GW-RS0638-25	Validity from 15 Jun 2025 to 8 Dec 2025

Contract No.	Description	Location	Ref No.	Status
		Percussive Piling Works at CUT Area	PP-RS0003-25	Validity from 2 May 2025 to 27 Sep 2025
	Discharge License under Water Pollution Control Ordinance	Construction Site of Contract No. NL/2020/03	WT00039577-2021	Validity from 1 Dec 2021 to 31 Dec 2026
		Construction Site of Contract No. NL/2020/03 (Man Tung Road)	WT10001265-2023	Validity from 13 Oct 2023 to 31 Oct 2028
		Construction Site of Contract No. NL/2020/03 (Yi Tung Road)	WT10001296-2023	Validity from 19 Oct 2023 to 31 Oct 2028
		Construction Site of Contract No. NL/2020/03 (Ying Tung Road)	WT10002162-2023	Validity from 1 Mar 2024 to 29 Mar 2029
	Licence for the conduct of a Specified Process (SP Licence)	TCNTE Works Area	L-3-264(2)	Validity from 22 May 2025 to 21 May 2027
Contract No. NL/2020/07 (Contract 7)	Billing Account for Disposal of Construction Waste	-	Application No. 7041997	Approved on 26 Oct 2021
	Registration as Chemical Waste Producer	Working site of Contract No. NL/2020/07	WPN-5213-961-B2500-08	Issued on 30 Nov 2021
	Construction Noise Permit	Portion 32 Receiving Pit	GW-RS0277-25	Validity from 31 Mar 2025 to 30 Sep 2025
		Portion 32 Sea Wall	GW-RS0031-25	Validity from 23 Feb 2025 to 22 Aug 2025
		Portion 33 Jacking Pit	GW-RS0304-25	Validity from 9 Apr 2025 to 8 Oct 2025
		NLH SPMT	GW-RS0213-25	Validity from 5 Apr 2025 to 28 Sep 2025
		Casting yard & Bridge A	GW-RS0001-25 <sup>(2)</sup>	Validity from 7 Jan 2025 to 6 July 2025

Contract No.	Description	Location	Ref No.	Status
			GW-RS0352-25	Validity from 11 Apr 2025 to 10 Oct 2025
		Portion 146	GW-RS0097-25	Validity from 11 Feb 2025 to 10 Aug 2025
		Pak Mong Bridge, loading, and unloading	GW-RS0035-25	Validity from 27 Jan 2025 to 26 Jul 2025
		NLH SPMT	GW-RS0005-25	Validity from 1 Apr 2025 to 29 Aug 2025
	Discharge License under Water Pollution Control Ordinance	Working site of Contract No. NL/2020/07 (Portion 32)	WT00041756-2022	Validity from 27 Oct 2022 to 31 Oct 2027
		Working site of Contract No. NL/2020/07 (Portion 33, 36-38)	WT00040693-2022	Validity from 31 May 2022 to 31 May 2027
		Working site of Contract No. NL/2020/07 (Portion 30, 31)	WT0043124-2023	Validity from 2 Mar 2023 to 31 Mar 2028
		Working site of Contract No. NL/2020/07 (Portion 146)	WT00043119-2023	Validity from 2 Mar 2023 to 31 Mar 2028
Note				
(1) GW-RS0342-25 was replaced by GW-RS0638-25 since 15 June 2025.				
(2) GW-RS0001-25 was replaced by GW-RS0352-25 since 11 April 2025.				



ANNEX E

AIR QUALITY



ANNEX E1

CALIBRATION CERTIFICATES FOR AIR  
QUALITY



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### SUB-CONTRACTING REPORT

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CONTACT	: MR MAGNUM FAN	WORK ORDER	: <b>HK2502558</b>
CLIENT	: <b>ENVIROTECH SERVICES CO.</b>		
ADDRESS	: RM 712, 7/F, MY LOFT 9 HOI WING ROAD, TUEN MUN, N.T. HK	SUB-BATCH	: 1
		DATE RECEIVED	: 15-JAN-2025
		DATE OF ISSUE	: 21-JAN-2025
PROJECT	: ----	NO. OF SAMPLES	: 1
		CLIENT ORDER	: ----

---

#### *General Comments*

- Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.
  - Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.
  - Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition.
  - Calibration was subcontracted to Envirotech Services Company.
- 

#### *Signatories*

This document has been signed by those names that appear on this report and are the authorised signatories

*Signatories*

*Position*

Richard Fung

Managing Director

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

All pages of this report have been checked and approved for release.

**ALS Technichem (HK) Pty Ltd**  
Part of the **ALS Laboratory Group**

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Tel. +852 2610 1044 Fax. +852 2610 2021 [www.alsglobal.com](http://www.alsglobal.com)

WORK ORDER : HK2502558  
SUB-BATCH : 1  
CLIENT : ENVIROTECH SERVICES CO.  
PROJECT : ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2502558-001	Sibata LD-3B (456666)	Equipments	02-Jan-2025	S/N: 456666

----- END OF REPORT -----



Envirotech Services Co.

Rm. 712, 7/F  
My Loft,  
9 Hoi Wing Road,  
Tuen Mun, H.K.  
Tel : 2560 8450  
Fax : 2560 8553  
E-mail: envirotech@netvigator.com

## Equipment Verification Report (TSP)

### Equipment Calibrated:

Type: Laser Dust Monitor  
Manufacturer: Sibata LD-3B  
Serial No.: 456666  
Equipment Ref.: N/A  
ALS Job Order: HK2500343

### Standard Equipment

Standard Equipment: High Volume Sampler (TSP)  
Location: Envirotech Room (Calibration Room)  
Equipment Ref.: HVS 8162  
Last Calibration Date: 1-Jan-2025

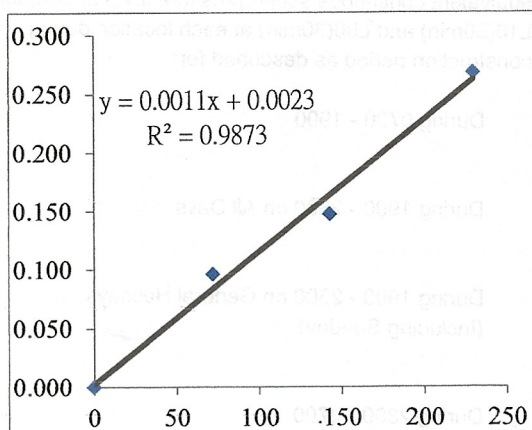
### Equipment Verification Results:

Verification Date: 2-Jan-2025

Hour	Time	Mean Temp °C	Mean Pressure (hpa)	TSP Level in mg (Standard Equipment) (Y-Axis)	Total Count (Calibrated Equipment) (X-Axis)
1hr 00mins	0900-1000	16.1	1023	0.096	76
2hr 00mins	1005-1205	20.5	1022	0.147	160
3hr 00mins	1330-1630	21.0	1022	0.268	248

### Linear Regression of Y or X

Slope (K-factor): 0.0011(mg)/Count  
Correlation Coefficient (R): 0.9936  
Date of Issue: 15-Jan-2025



### Remarks:

1. Strong Correlation ( $>0.8$ )
2. Factor 0.0011 mg/Count should be applied for TSP monitoring

\*If  $R < 0.5$ , repair or verification is required for the equipment

Operator: P.F.Yeung Signature P.F.Yeung Date: 15 Jan 2025

QC Reviewer: K.F.Ho Signature K.F.Ho Date: 15 Jan 2025

## TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location : Rm. 712, My Loft, Tuen Mun      Date of Calibration: 1-Jan-25  
 HVS ID: 8162      Next Calibration Date: 31-Mar-25  
 Name and Model : TISCH HVS Model TE-5170      Operator: K.F.Ho

### CONDITIONS

Sea Level Pressure (hpa)	1023	Corrected Pressure (mm Hg)	767.3
Temperature (°C)	15.8	Temperature (K)	288.8

### CALIBRATION ORIFICE

Make:	TISCH	Qstd Slope	2.08315
Model:	TE-5025A	Qstd Intercept	-0.04938
Serial#:	2454		

### CALIBRATION

Plate No.	H2O(L) (in)	H2O(R) (in)	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	6.4	6.4	12.8	1.777	62	63.30	Slope= 35.208 Intercept= -0.0015 Corr. Coeff.= 0.9959
13	5.3	5.3	10.6	1.619	56	57.17	
10	4.2	4.2	8.4	1.444	48	49.00	
7	2.7	2.7	5.4	1.163	41	41.86	
5	1.7	1.7	3.4	0.927	32	32.67	

#### Calculations:

$$Qstd = 1/m[\text{Sqrt}(H2O(Pa/Pstd)(Tstd/Ta))-b]$$

$$IC = I[\text{Sqrt}(Pa/Pstd)(Tstd/Ta)]$$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

#### For subsequent calculation of sampler flow:

$$1/m(I)[\text{Sqrt}(298/Tav)(Pav/760)]-b)$$

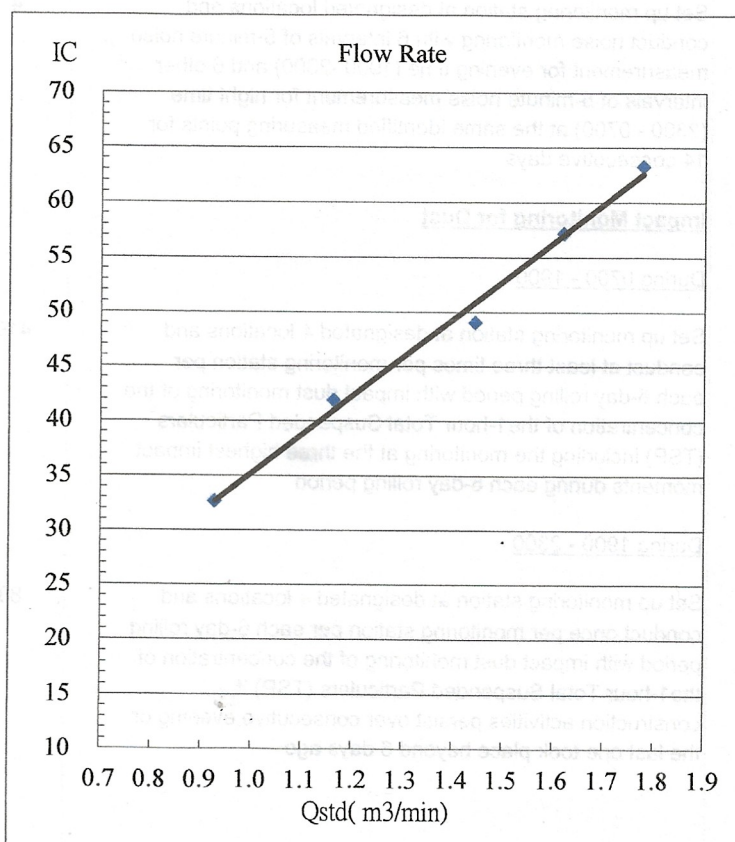
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



# Certificate of Calibration

## Calibration Certification Information

Cal. Date: December 2, 2024

Rootsmeter S/N: 438320

Ta: 293 °K

Operator: Jim Tisch

Pa: 757.4 mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0170	6.4	4.00
3	5	6	1	0.9090	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7140	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)
1.0093	0.7108	1.4238	0.9958	0.7013	0.8796
1.0051	0.9883	2.0136	0.9916	0.9750	1.2439
1.0031	1.1035	2.2512	0.9896	1.0886	1.3907
1.0018	1.1515	2.3611	0.9884	1.1361	1.4586
0.9965	1.3956	2.8476	0.9831	1.3769	1.7592
QSTD	m=	2.08315	QA	m=	1.30443
	b=	-0.04938		b=	-0.03050
	r=	0.99985		r=	0.99985

## Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
For subsequent flow rate calculations:			
Qstd=	$1/m \left( \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa=	$1/m \left( \left( \sqrt{\Delta H \left( \frac{Ta}{Pa} \right)} \right) - b \right)$

## Standard Conditions

Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH: calibrator manometer reading (in H2O)	
ΔP: rootsmeter manometer reading (mm Hg)	
Ta: actual absolute temperature (°K)	
Pa: actual barometric pressure (mm Hg)	
b: intercept	
m: slope	

## RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



ANNEX E2

MONITORING SCHEDULE FOR AIR  
QUALITY

**Tung Chung New Town Extension (East)**  
**Air Quality Monitoring Schedule (June 2025)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
	Air Quality Monitoring					Air Quality Monitoring
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
					Air Quality Monitoring	
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
				Air Quality Monitoring		
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
			Air Quality Monitoring			
29-Jun	30-Jun					
	Air Quality Monitoring					



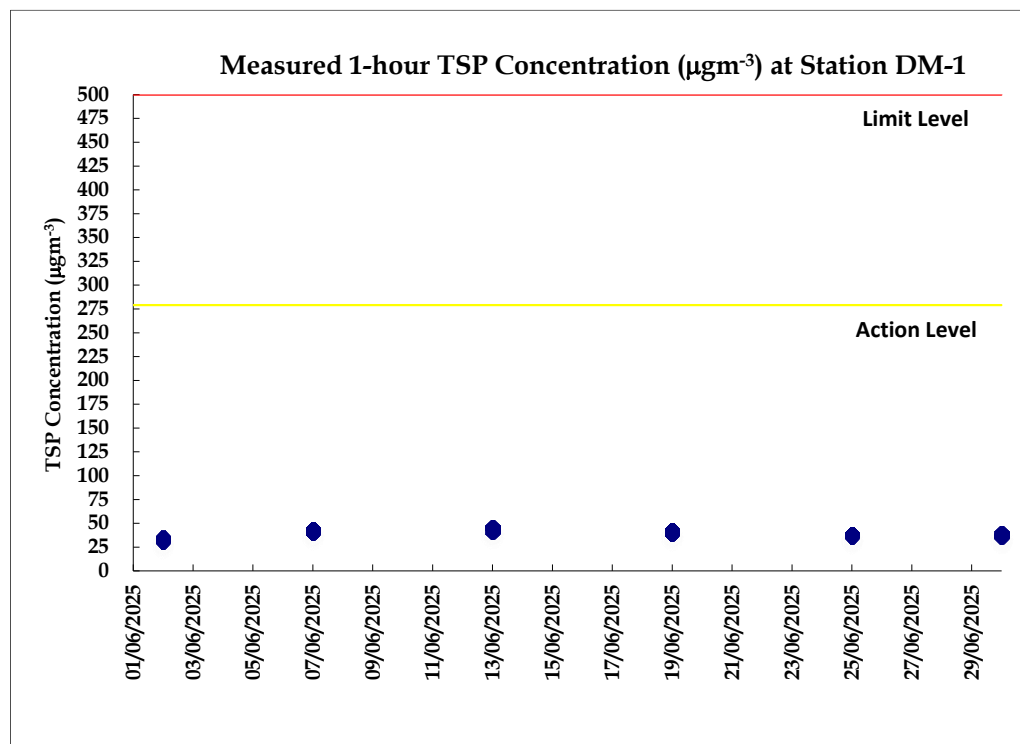
ANNEX E3

MONITORING RESULTS FOR AIR  
QUALITY

**Table E3**      **Data for 1-hr TSP Monitoring at Station DM-1**

Date	Start Time	Finish Time	Weather	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )
6/2/2025	9:02	10:02	Cloudy	35
6/2/2025	10:02	11:02	Cloudy	31
6/2/2025	11:02	12:02	Cloudy	34
6/7/2025	9:12	10:12	Sunny	40
6/7/2025	10:12	11:12	Sunny	44
6/7/2025	11:12	12:12	Sunny	43
6/13/2025	9:00	10:00	Cloudy	41
6/13/2025	10:00	11:00	Cloudy	46
6/13/2025	11:00	12:00	Cloudy	45
6/19/2025	13:50	14:50	Sunny	43
6/19/2025	14:50	15:50	Sunny	39
6/19/2025	15:50	16:50	Sunny	42
6/25/2025	9:00	10:00	Sunny	39
6/25/2025	10:00	11:00	Sunny	38
6/25/2025	11:00	12:00	Sunny	36
6/30/2025	9:02	10:02	Cloudy	36
6/30/2025	10:02	11:02	Cloudy	40
6/30/2025	11:02	12:02	Cloudy	37

Figure E3 Graphical Presentation for 1-hr TSP Monitoring at Station DM-1





ANNEX E4

EVENT AND ACTION PLAN FOR AIR  
QUALITY

#### *Annex E4      Event and Action Plan for Air Quality*

Event	Action			
	ET	IEC	ER	Contractor
Action level 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 and ER;</li> <li>3. Repeat measurement to confirm finding;</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.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods if appropriate.</li> </ol>
Action level exceedance for two or more consecutive samples	<ol style="list-style-type: none"> <li>1. Identify source;</li> <li>2. Inform IEC and ER;</li> <li>3. Advise the ER 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 and Contractor on remedial actions required;</li> <li>7. If exceedance continues, arrange meeting with IEC and ER;</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 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;</li> <li>3. Ensure remedial measures properly implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Submit proposals for remedial to ER within 3 working days of notification;</li> <li>2. Implement the agreed proposals;</li> <li>3. Amend proposal if appropriate.</li> </ol>

Event	Action			
	ET	IEC	ER	Contractor
Limit level 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 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 and Contractor on possible remedial measures;</li> <li>4. Advise the ER 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;</li> <li>3. Ensure remedial measures properly implemented.</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. Amend proposal if appropriate.</li> </ol>
Limit level 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 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> <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 Contractor's 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. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</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>



ANNEX F

NOISE



ANNEX F1

CALIBRATION CERTIFICATES FOR NOISE

# *Certificate of Calibration*

*for*

*Description:* **Sound Level Calibrator**

*Manufacturer:* **Larson Davis**

*Type No.:* **CAL 200**

*Serial No.:* **15678**

***Submitted by:***

*Customer:* **Envirotech Services Co.**

*Address:* **Rm. 712, 7/F., My Loft, 9 Hoi Wing Road,  
Tuen Mun, Hong Kong**

**Upon receipt for calibration, the instrument was found to be:**

☒ **Within**

☐ **Outside**

**the allowable tolerance.**


The test equipments used for calibration are traceable to National Standards via:

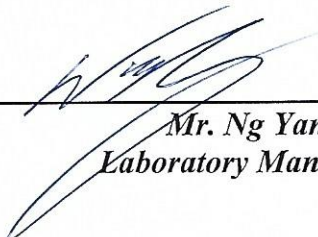
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

**Date of receipt: 03 January 2025**

**Date of calibration: 06 January 2025**

**Date of NEXT calibration: 05 January 2026**

**Calibrated by:**   
**Calibration Technician**

**Certified by:**   
**Mr. Ng Yan Wa**  
**Laboratory Manager**

**Date of issue: 06 January 2025**

**Certificate No.: APJ24-124-CC003**



Page 1 of 2

**1. Calibration Precautions:**

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

**2. Calibration Specifications:**

Calibration check

**3. Calibration Conditions:**

Air Temperature: 22.9°C  
Air Pressure: 1019 hPa  
Relative Humidity: 33.2 %

**4. Calibration Equipment:**

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

**5. Calibration Results****5.1 Sound Pressure Level**

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1
114.0	113.6	114.4	114.1

**6. Calibration Results Applied**

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.

Certificate No.: APJ24-124-CC003



Page 2 of 2

# *Certificate of Calibration*

*for*

*Description:* **Sound Level Meter**  
*Manufacturer:* **RION**  
*Type No.:* **NL-52 (Serial No.: 00542913)**  
*Microphone:* **UC-53A (Serial No.: 99995)**  
*Preamplifier:* **NH-25 (Serial No.:43068)**

***Submitted by:***

*Customer:* **Envirotech Services Co.**  
*Address:* **Rm.712, 7/F., My Loft, 9 Hoi Wing Road,  
Tuen Mun, Hong Kong**

**Upon receipt for calibration, the instrument was found to be:**

- ☒ **Within (31.5Hz – 8kHz)**  
☐ **Outside**

**the allowable tolerance.**

The test equipment used for calibration are traceable to National Standards via:

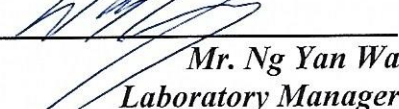
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

**Date of receipt: 28 August 2024**

**Date of calibration: 29 August 2024**

**Date of NEXT calibration: 28 August 2025**

**Calibrated by:**   
**Calibration Technician**

**Certified by:**   
**Mr. Ng Yan Wa  
Laboratory Manager**

**Date of issue: 29 August 2024**

**Certificate No.: APJ24-058-CC001**



*Page 1 of 4*

**1. Calibration Precaution:**

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

**2. Calibration Conditions:**

Air Temperature: 24.6 °C  
 Air Pressure: 1004 hPa  
 Relative Humidity: 53.9 %

**3. Calibration Equipment:**

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

**4. Calibration Results**

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	Ref
				104		104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast		94	1000	94.0	Ref
		Slow				94.0	±0.3



Certificate No.: APJ24-058-CC001

Page 2 of 4

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dB	SPL	94	31.5	92.7	$\pm 2.0$
				63	93.7	$\pm 1.5$
				125	93.9	$\pm 1.5$
				250	94.0	$\pm 1.4$
				500	94.0	$\pm 1.4$
				1000	94.0	Ref
				2000	93.9	$\pm 1.6$
				4000	94.3	$\pm 1.6$
				8000	92.4	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	94	31.5	53.5	$-39.4 \pm 2.0$
				63	67.5	$-26.2 \pm 1.5$
				125	77.8	$-16.1 \pm 1.5$
				250	85.3	$-8.6 \pm 1.4$
				500	90.8	$-3.2 \pm 1.4$
				1000	94.0	Ref
				2000	95.2	$+1.2 \pm 1.6$
				4000	95.3	$+1.0 \pm 1.6$
				8000	91.3	$-1.1 \pm 2.1$ ; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBC	SPL	94	31.5	89.7	$-3.0 \pm 2.0$
				63	92.9	$-0.8 \pm 1.5$
				125	93.8	$-0.2 \pm 1.5$
				250	94.0	$-0.0 \pm 1.4$
				500	94.0	$-0.0 \pm 1.4$
				1000	94.0	Ref
				2000	93.8	$-0.2 \pm 1.6$
				4000	93.5	$-0.8 \pm 1.6$
				8000	89.4	$-3.0 \pm 2.1$ ; -3.1



Certificate No.: APJ24-058-CC001

Page 3 of 4

## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.



ANNEX F2

MONITORING SCHEDULE FOR NOISE

**Tung Chung New Town Extension (East)**  
**Noise Monitoring Schedule (June 2025)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
	Noise Monitoring					Noise Monitoring
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
					Noise Monitoring	
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
				Noise Monitoring		
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
			Noise Monitoring			
29-Jun	30-Jun					
	Noise Monitoring					



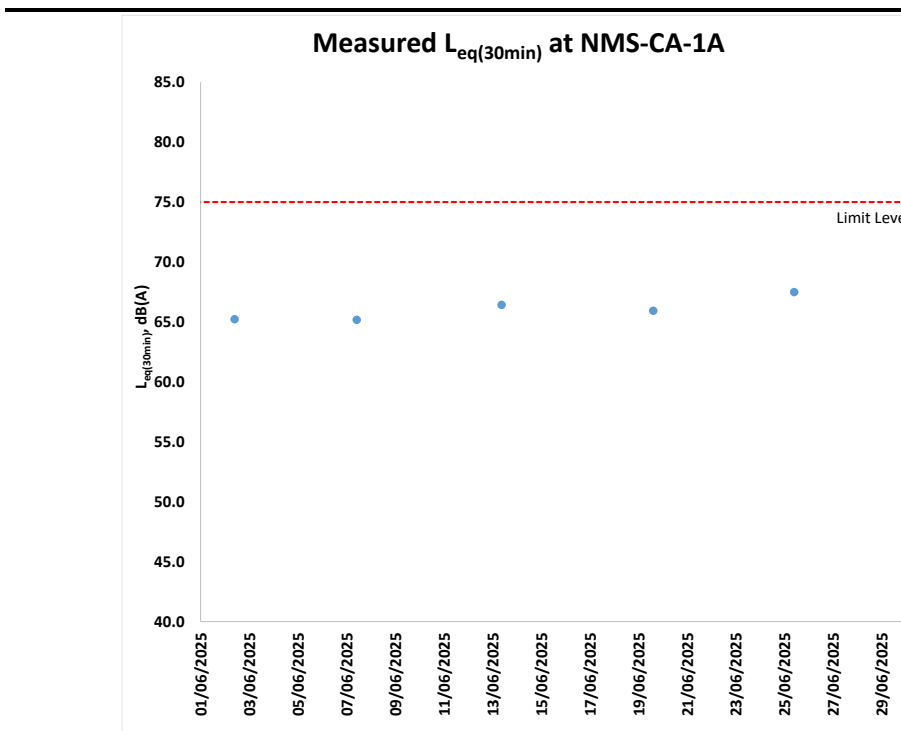
ANNEX F3

MONITORING RESULTS FOR NOISE

**Table F3.1**      **Data for Noise Monitoring at Station NMS-CA-1A during Normal Working Hours (0700-1900 hours)**

Date & Time	L <sub>eq</sub> (5min)	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30min)
6/2/2025 9:39	65.8	69.3	60.0	65.2
6/2/2025 9:44	65.7	68.3	59.5	
6/2/2025 9:49	64.0	65.3	59.2	
6/2/2025 9:54	64.2	66.8	59.2	
6/2/2025 9:59	65.0	67.3	60.2	
6/2/2025 10:04	66.2	68.8	61.5	65.2
6/7/2025 10:10	64.6	67.1	58.3	
6/7/2025 10:15	63.8	66.0	58.7	
6/7/2025 10:20	65.8	69.1	58.9	
6/7/2025 10:25	65.5	67.9	58.0	
6/7/2025 10:30	66.4	68.3	60.1	66.4
6/7/2025 10:35	64.4	67.2	60.0	
6/13/2025 9:05	65.9	68.9	61.5	
6/13/2025 9:10	65.1	68.4	60.4	
6/13/2025 9:15	67.2	70.3	59.8	
6/13/2025 9:20	65.2	69.2	58.4	65.9
6/13/2025 9:25	66.8	70.7	59.7	
6/13/2025 9:30	67.7	71.1	60.5	
6/19/2025 14:47	64.6	67.4	60.0	
6/19/2025 14:52	64.9	67.0	60.2	
6/19/2025 14:57	65.2	67.7	60.6	67.5
6/19/2025 15:02	65.7	66.6	60.3	
6/19/2025 15:07	66.5	68.8	59.6	
6/19/2025 15:12	67.8	70.9	62.0	
6/25/2025 9:42	67.2	69.5	63.3	
6/25/2025 9:47	67.2	69.3	63.4	65.6
6/25/2025 9:52	67.6	71.0	63.2	
6/25/2025 9:57	67.7	70.7	63.2	
6/25/2025 10:02	68.5	72.4	62.1	
6/25/2025 10:07	66.5	69.8	61.5	
6/30/2025 9:08	63.9	66.0	60.0	65.6
6/30/2025 9:13	66.0	68.3	60.6	
6/30/2025 9:18	66.9	69.2	61.2	
6/30/2025 9:23	64.7	67.1	60.8	
6/30/2025 9:28	64.4	66.9	60.9	
6/30/2025 9:33	66.7	69.1	61.5	

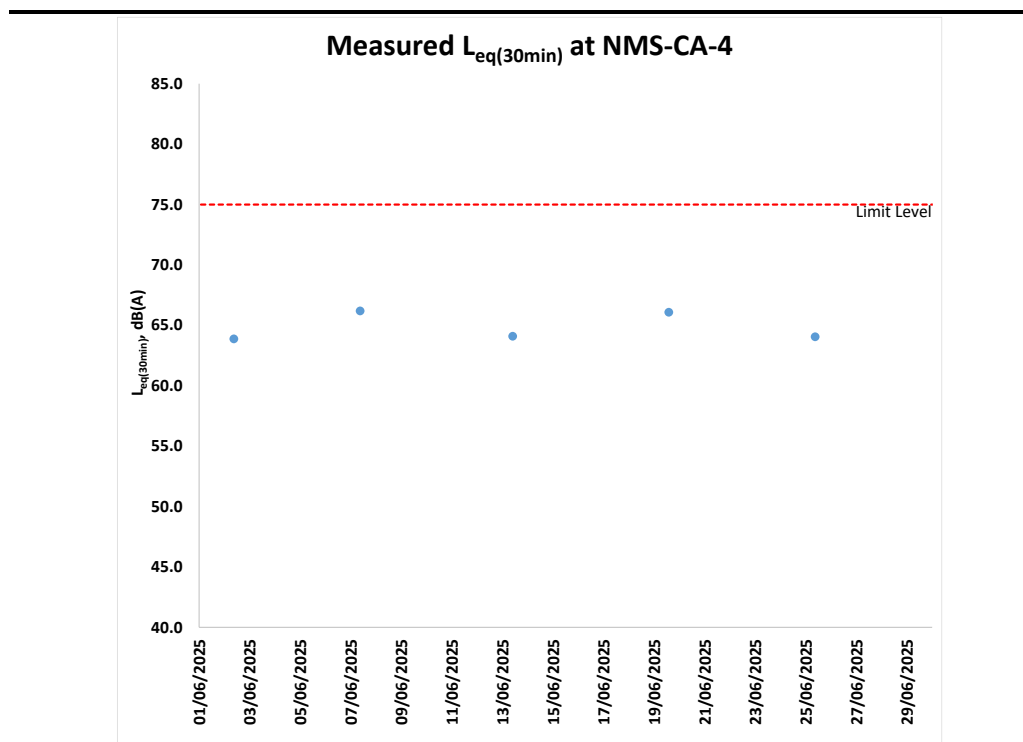
**Figure F3.1**      **Graphical Presentation for Noise Monitoring at Station NMS-CA-1A**



**Table F3.2 Data for Noise Monitoring at Station NMS-CA-4 during Normal Working Hours (0700-1900 hours)**

Date & Time	L <sub>eq</sub> (5min)	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub> (30min)
6/2/2025 9:04	64.2	66.4	61.7	63.9
6/2/2025 9:09	62.4	63.6	60.7	
6/2/2025 9:14	63.2	65.2	60.7	
6/2/2025 9:19	64.2	66.8	61.5	
6/2/2025 9:24	63.7	65.4	61.9	
6/2/2025 9:29	65.1	67.0	62.5	66.2
6/7/2025 9:04	65.8	67.8	63.3	
6/7/2025 9:09	65.1	67.0	62.6	
6/7/2025 9:14	66.2	67.9	63.9	
6/7/2025 9:19	66.1	68.0	64.0	
6/7/2025 9:24	65.6	67.4	63.5	
6/7/2025 9:29	67.8	68.9	64.0	64.1
6/13/2025 9:51	63.1	64.5	61.6	
6/13/2025 9:56	65.2	67.2	61.6	
6/13/2025 10:01	64.5	67.2	61.5	
6/13/2025 10:06	64.5	67.2	61.6	
6/13/2025 10:11	63.3	65.6	61.0	66.1
6/13/2025 10:16	63.6	65.2	61.6	
6/19/2025 14:07	66.4	67.7	63.4	
6/19/2025 14:12	65.5	67.2	63.9	
6/19/2025 14:17	65.2	66.7	63.0	
6/19/2025 14:22	65.9	67.7	64.1	64.1
6/19/2025 14:27	66.0	68.2	63.9	
6/19/2025 14:32	67.2	68.2	63.5	
6/25/2025 9:00	65.2	66.8	63.1	
6/25/2025 9:05	64.0	65.0	62.0	
6/25/2025 9:10	63.0	64.3	61.5	64.9
6/25/2025 9:15	63.5	65.0	61.6	
6/25/2025 9:20	64.3	65.5	62.3	
6/25/2025 9:25	64.0	65.5	62.2	
6/30/2025 9:47	63.8	65.3	62.3	
6/30/2025 9:52	63.3	64.9	61.9	64.9
6/30/2025 9:57	63.7	65.1	62.4	
6/30/2025 10:02	64.7	66.3	63.2	
6/30/2025 10:07	66.6	68.8	63.7	
6/30/2025 10:12	66.1	68.3	63.5	

**Figure F3.2 Graphical Presentation for Noise Monitoring at Station NMS-CA-4**





ANNEX F4

EVENT AND ACTION PLAN FOR NOISE

**Annex F4**      **Event and Action Plan for Construction Noise**

Event	Action			
	ET	IEC	ER	Contractor
Action Level Exceedance	<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 Exceedance	<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>



ANNEX G

COMPENSATION WOODLAND  
MONITORING



Photo 1 – General view of compensation woodland in Portion 1



Photo 2 – General view of compensation woodland in Portion 2



## ANNEX H

## PRESERVED/TRANSPLANTED PLANT SPECIES OF CONSERVATION IMPORTANCE MONITORING



ANNEX H1

PRESERVED PLANT SPECIES OF  
CONSERVATION IMPORTANCE



G01\_30-R001



G01\_30-R002



G01\_30-R003



G01\_30-R004



G01\_30-R005



G01\_39-R01\_Inaccessible



G01\_39-R02\_Inaccessible



G01\_81-RT-01



G01\_81-RT-02 (T1535)



G02\_29-R007



G02\_29-R013



G03\_44-R014



G04\_83\_84\_85-R04 (T1788)



G04\_83\_84\_85-R05 (T1572)



G04\_83\_84\_85-R06



G04\_83\_84\_85-R07



G03\_44-R015



G03\_44-R017



G04\_21-R03



G04\_45-R011



G04\_83\_84\_85-R08



G04\_83\_84\_85-R09



G04\_83\_84\_85-R010



G04\_83\_84\_85-R011



G05\_9-R04



G05\_67-R008



G06\_66-R009



R04



WLH\_T047

Drawing no.	Tree group no.	Tree No.	Botanical Name	Chinese Name	SIZE			Amenity Value	Form	Health	Structural Condition	Conservation Status	Recommendation in Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance for Tung Chung East (Retain/ Transplant/ Fell)	Justification	Remarks
					Height (m)	DBH (mm)	Spread (m)								
60507694/C2/1721	G01/39	R01	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	On Slope, Inaccessible
		R02	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	On Slope, Inaccessible
	G06/59	R018	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
	G03/61	R019	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
	G05/62	RT06	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Transplant	Direct conflict with proposed works	Missing
	G01/81	RT-01	<i>Gmelina chinensis</i>	石梓	5	160	3	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Strangled by Epiphytes
		RT-02 (T1535)	<i>Gmelina chinensis</i>	石梓	8	110	3	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Branches, Strangled by Epiphytes.
	-	WLH/T047	<i>Aquilaria sinensis</i>	土沉香	10	230	6	Good	Fair	Fair	Fair	Yes	Retain	-	On slope, Newly observed in November 2023, Minor infested with <i>Heortia vitessoides</i> , remonitoring is recommended
	G02/82	RT03	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Transplant	Direct conflict with proposed works	Missing
	G04/83/84/85	R04 (T1788)	<i>Gmelina chinensis</i>	石梓	9	260	8	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Multiple Trunks
		R05 (T1572)	<i>Gmelina chinensis</i>	石梓	8	120	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Broken branch
		R05	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
		R06	<i>Gmelina chinensis</i>	石梓	5	100	3	Good	Fair	Fair	Fair	Yes	Retain	-	On slope
		R07	<i>Gmelina chinensis</i>	石梓	8	166	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Trunks
		R08	<i>Gmelina chinensis</i>	石梓	7	160	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Broken Leader, Epicormics, Imbalanced Crown
		R09	<i>Gmelina chinensis</i>	石梓	5	140	4	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Broken Leader wih Epiphyte, Broken Leader with Epicormics
		R010	<i>Gmelina chinensis</i>	石梓	8	110	3	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Broken Leader with Epicormics
		R011	<i>Gmelina chinensis</i>	石梓	9	130	4	Good	Poor	Fair	Poor	Yes	Retain	-	On slope, Multiple Branches, Leaning without Self-correction
60507694/C2/1722	G04/21	R03	<i>Gmelina chinensis</i>	石梓	5	120	2	Good	Fair	Fair	Fair	Yes	Retain	-	Undersized, On Slope
	-	R04	<i>Enkianthus quinqueflorus</i>	吊鐘花	2	130	3	Good	Fair	Fair	Fair	Yes	Retain	-	On slope, Newly observed in November 2023
	G05/9	R04	<i>Gmelina chinensis</i>	石梓	5	100	2	Good	Fair	Fair	Fair	Yes	Retain	-	On Slope
60507694/C2/1732	G01/30	R001	<i>Gmelina chinensis</i>	石梓	7	110	2	Good	Poor	Fair	Fair	Yes	Retain	-	On Slope
		R002	<i>Gmelina chinensis</i>	石梓	8	120	5	Good	Poor	Poor	Fair	Yes	Retain	-	On slope, Co-dominant Branches, Root Flare was Partially Buried, Dead Stub
		R003	<i>Gmelina chinensis</i>	石梓	5	140	2	Good	Poor	Poor	Fair	Yes	Retain	-	On slope, Bulge at Trunk, Root Flare was Partially Buried, Climber
		R004	<i>Aquilaria sinensis</i>	土沉香	10	150	3	Good	Fair	Fair	Fair	Yes	Retain	-	On slope
		R005	<i>Aquilaria sinensis</i>	土沉香	8	130	3	Good	Fair	Fair	Fair	Yes	Retain	-	On slope, Minor infested with <i>Heortia vitessoides</i> , remonitoring is recommended
		R006	<i>Aquilaria sinensis</i>	土沉香	-	-	-	-	-	-	-	Yes	Retain	-	Missing
	G02/29	R007	<i>Gmelina chinensis</i>	石梓	10	170	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Branches with Included Bark, Crossed Branches, Old termite tracks on trunk
		R013	<i>Gmelina chinensis</i>	石梓	8	150	7	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Branches, Epicormics at Branch, Broken Leader with Epiphyte
	G03/44	R014	<i>Gmelina chinensis</i>	石梓	7	160	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Branches
		R015	<i>Gmelina chinensis</i>	石梓	6	110	2	Good	Poor	Poor	Fair	Yes	Retain	-	On slope, Broken Leader, Epiphytes
		R016	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
		R017	<i>Gmelina chinensis</i>	石梓	8	130	4	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Broken Leader with Epicormics
	G04/45	R010	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
		R011	<i>Gmelina chinensis</i>	石梓	8	140	7	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Co-dominant Branches
		R012	<i>Gmelina chinensis</i>	石梓	-	-	-	-	-	-	-	Yes	Retain	-	Missing
	G05/67	R008	<i>Gmelina chinensis</i>	石梓	6	120	4	Good	Fair	Fair	Fair	Yes	Retain	-	On slope
	G06/66	R009	<i>Gmelina chinensis</i>	石梓	7	120	5	Good	Poor	Fair	Fair	Yes	Retain	-	On slope, Epicormic at Broken Stump



ANNEX H2

TRANSPLANTED PLANT SPECIES OF  
CONSERVATION IMPORTANCE





RP01-A



RP01-B



RP02-A



RP02-B



RP04-A



RP04-B

Contract No. NL/2020/02  
Tung Chung New Town Extension—Salt Water Supply System  
Quarterly Monitoring Report for the 3 Nr. Aquilaria sinensis for June 2025

Ref.: C3113/25/TGD3467  
Date: 26 June 2025

Tree No.	Botanical Name	Chinese Name	SIZE			Amenity Value	Form	Health	Structural Condition	Conservation Status	Recommendation in Detailed Preservation and/or Translocation Plan for Plant Species of Conservation Importance for Tung Chung East (Retain/ Transplant/ Fell)	Justificati on	Remarks
			Height (m)	DBH (mm)	Spread (m)		(Good/ Fair/ Poor)						
RP01	<i>Aquilaria sinensis</i>	土沉香	4.50	116.60	2.50	Good	Fair	Fair	Fair	Yes	Retain	-	Replacement Planting
RP02	<i>Aquilaria sinensis</i>	土沉香	4.50	106.70	2.50	Good	Fair	Fair	Fair	Yes	Retain	-	Replacement Planting
RP04	<i>Aquilaria sinensis</i>	土沉香	4.00	85.40	2.00	Good	Fair	Fair	Fair	Yes	Retain	-	Replacement Planting



ANNEX I

ECO-SHORELINE MONITORING

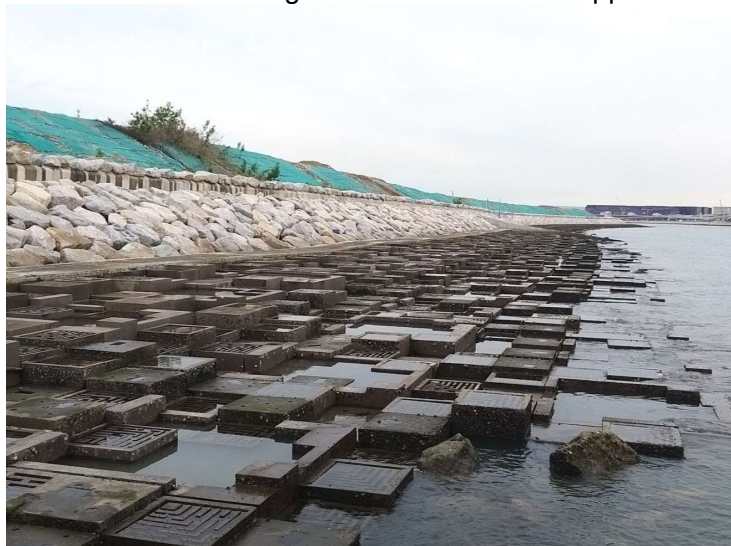
## Photographic Records for Mangrove, Vertical and Rocky Eco-shoreline in June 2025



General View of Mangrove Eco-shoreline at Upper Terrace



General View of Mangrove Eco-shoreline at Lower Terrace



General View of Rocky Eco-shoreline



General View of Vertical Eco-shoreline



ANNEX J

SOFT SHORE ECOLOGY



ANNEX J1

MONITORING SCHEDULE

**Tung Chung New Town Extension (East)**  
**Post-Construction Soft Shore Ecological Monitoring Schedule (June 2025)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
	Soft Shore Monitoring at Tai Ho Bay	Soft Shore Monitoring at Tung Chung Bay				
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
	Soft Shore Monitoring at Tung Chung Bay	Soft Shore Monitoring at Tung Chung Bay				
29-Jun	30-Jun					



ANNEX J2

MONITORING RESULTS

**Table J2.1 Results for Horseshoe Crabs during Qualitative Walk-through Surveys in June 2025**

Sighting #	Species	Prosomal Width (cm)	Total Length (cm)
<b>Monitoring Date: 9 June 2025</b>			
<b>Monitoring Station: THW</b>			
1	<i>Tachypleus tridentatus</i>	1.1	1.7
2	<i>Tachypleus tridentatus</i>	0.9	1.1
3	<i>Tachypleus tridentatus</i>	0.8	1.0
4	<i>Tachypleus tridentatus</i>	1.2	1.9
5	<i>Tachypleus tridentatus</i>	0.9	1.2
6	<i>Tachypleus tridentatus</i>	0.7	1.0
7	<i>Tachypleus tridentatus</i>	0.8	1.0
8	<i>Tachypleus tridentatus</i>	0.9	1.2
9	<i>Tachypleus tridentatus</i>	0.9	1.0
10	<i>Tachypleus tridentatus</i>	0.8	1.1
11	<i>Tachypleus tridentatus</i>	0.8	1.0
12	<i>Tachypleus tridentatus</i>	1.1	1.8
13	<i>Tachypleus tridentatus</i>	0.8	1.0
14	<i>Tachypleus tridentatus</i>	0.9	1.1
15	<i>Tachypleus tridentatus</i>	1.5	2.8
16	<i>Tachypleus tridentatus</i>	1.5	2.7
17	<i>Tachypleus tridentatus</i>	1.1	1.8
18	<i>Tachypleus tridentatus</i>	1.1	1.9
19	<i>Tachypleus tridentatus</i>	1.0	1.7
20	<i>Tachypleus tridentatus</i>	0.8	1.1
21	<i>Tachypleus tridentatus</i>	1.1	1.8
22	<i>Tachypleus tridentatus</i>	0.8	1.0
23	<i>Tachypleus tridentatus</i>	1.0	1.7
24	<i>Tachypleus tridentatus</i>	1.1	2.0
25	<i>Tachypleus tridentatus</i>	0.9	1.1
26	<i>Tachypleus tridentatus</i>	1.0	1.6
27	<i>Tachypleus tridentatus</i>	0.8	1.0
28	<i>Tachypleus tridentatus</i>	0.8	1.1
29	<i>Tachypleus tridentatus</i>	0.8	1.1
30	Unidentified <sup>(a)</sup>	0.6	0.7
31	<i>Tachypleus tridentatus</i>	0.8	1.1
32	<i>Tachypleus tridentatus</i>	0.9	1.1
33	<i>Tachypleus tridentatus</i>	1.1	1.8
34	<i>Tachypleus tridentatus</i>	1.1	1.9
35	<i>Tachypleus tridentatus</i>	1.0	1.2
36	<i>Tachypleus tridentatus</i>	0.9	1.0
37	<i>Tachypleus tridentatus</i>	0.8	1.0
38	<i>Tachypleus tridentatus</i>	1.1	1.8
39	<i>Tachypleus tridentatus</i>	4.6	7.6
40	<i>Tachypleus tridentatus</i>	2.0	3.5
41	<i>Tachypleus tridentatus</i>	1.0	1.8
42	<i>Tachypleus tridentatus</i>	1.2	3.0
43	<i>Tachypleus tridentatus</i>	1.1	2.8
44	<i>Tachypleus tridentatus</i>	1.5	2.5
45	<i>Tachypleus tridentatus</i>	1.2	2.0
46	<i>Tachypleus tridentatus</i>	1.4	2.6
47	<i>Tachypleus tridentatus</i>	0.9	1.1
48	<i>Tachypleus tridentatus</i>	1.1	1.9
49	<i>Tachypleus tridentatus</i>	1.1	1.8
50	<i>Tachypleus tridentatus</i>	1.1	1.9
51	<i>Tachypleus tridentatus</i>	0.7	1.0
52	<i>Tachypleus tridentatus</i>	1.1	2.0
53	<i>Tachypleus tridentatus</i>	0.8	1.0
54	<i>Tachypleus tridentatus</i>	1.0	1.9

55	<i>Tachypleus tridentatus</i>	1.1	1.8
	<b>Mean (Range)</b>	<b>1.1 (0.6 – 4.6)</b>	<b>1.7 (0.7 – 7.6)</b>

**Monitoring Date: 10 June 2025**

**Monitoring Station: TCB3**

1	<i>Tachypleus tridentatus</i>	2.2	4.0
2	<i>Tachypleus tridentatus</i>	1.7	3.6
3	<i>Tachypleus tridentatus</i>	1.5	2.7
4	<i>Tachypleus tridentatus</i>	1.6	2.7
5	<i>Tachypleus tridentatus</i>	0.8	1.4
6	<i>Tachypleus tridentatus</i>	1.4	2.3
7	<i>Tachypleus tridentatus</i>	1.5	2.5
8	<i>Tachypleus tridentatus</i>	2.2	3.9
9	<i>Tachypleus tridentatus</i>	1.3	1.9
10	<i>Tachypleus tridentatus</i>	3.9	7.1
11	<i>Tachypleus tridentatus</i>	1.7	2.6
12	<i>Tachypleus tridentatus</i>	0.9	1.2
13	<i>Tachypleus tridentatus</i>	1.2	2.0
14	<i>Tachypleus tridentatus</i>	1.2	1.9
15	<i>Tachypleus tridentatus</i>	0.8	1.0
16	<i>Tachypleus tridentatus</i>	0.8	1.0
17	<i>Tachypleus tridentatus</i>	0.8	1.1
18	<i>Tachypleus tridentatus</i>	0.9	1.2
19	<i>Tachypleus tridentatus</i>	1.1	1.8
	<b>Mean (Range)</b>	<b>1.4 (0.8 – 3.9)</b>	<b>2.4 (1.0 – 7.1)</b>

**Monitoring Date: 24 June 2025**

**Monitoring Station: TCB2**

1	<i>Tachypleus tridentatus</i>	3.5	7.0
2	<i>Tachypleus tridentatus</i>	2.2	4.0
3	<i>Tachypleus tridentatus</i>	1.6	2.7
4	<i>Tachypleus tridentatus</i>	1.6	3.0
5	<i>Tachypleus tridentatus</i>	1.5	2.7
	<b>Mean (Range)</b>	<b>2.1 (1.5 – 3.5)</b>	<b>3.9 (2.7 – 7.0)</b>

Note:

- a) One (1) horseshoe crab individual at THW was recorded with prosomal width of 0.6cm and total length of 0.7cm. This individual was considered to be too small for species identification by the naked eye and were recorded as unidentified species.

**Table J2.2 Results for Seagrass during Qualitative Walk-through Surveys in June 2025**

Sighting #	Species	Area (m <sup>2</sup> )	Area Coverage (%)	Seagrass Area (m <sup>2</sup> )
<b>Monitoring Date: 10 June 2025</b>				
<b>Monitoring Station: TCB3</b>				
1	<i>Halophila ovalis</i>	2.0	25%	0.5

**Table J2.3**      *Results for Other Intertidal Soft Shore Communities during Qualitative Walk-through Surveys in June 2025*

Monitoring Station	Shore Height *	No. of Species
TCB1	H	20
	M	25
	L	23
	<b>Overall</b>	<b>37</b>
TCB2	H	22
	M	17
	L	16
	<b>Overall</b>	<b>24</b>
TCB3	H	23
	M	22
	L	24
	<b>Overall</b>	<b>36</b>
THW	H	22
	M	22
	L	17
	<b>Overall</b>	<b>30</b>

\* H: +2mCD; M: +1.5mCD; L: +1mCD

**Table J2.4 Results for Other Intertidal Soft Shore Communities during Quantitative Transect Surveys in June 2025**

Monitoring Station	Shore Height *	Top Three Dominant Species	Density (ind. / m <sup>2</sup> )
TCB1	H	1 <i>Cerithidea diadjariensis</i>	379.2
		2 <i>Batillaria multiformis</i>	129.6
		3 <i>Cerithidea cingulata</i>	39.2
	M	1 <i>Cerithidea cingulata</i>	164.8
		2 <i>Cerithidea diadjariensis</i>	156.8
		3 <i>Batillaria multiformis</i>	100.8
	L	1 <i>Batillaria zonalis</i>	36.0
		2 <i>Barbatia virescens</i>	7.2
		3 <i>Lunella coronata</i>	4.0
TCB2	H	1 <i>Cerithidea diadjariensis</i>	93.6
		2 <i>Cerithidea cingulata</i>	9.6
		3 <i>Batillaria zonalis</i>	3.2
	M	1 <i>Cerithidea diadjariensis</i>	116.0
		2 <i>Cerithidea cingulata</i>	63.2
		3 <i>Batillaria zonalis</i>	1.6
	L	1 <i>Cerithidea cingulata</i>	22.4
		2 <i>Cerithidea diadjariensis</i>	20.0
		3 <i>Batillaria zonalis</i>	4.8
TCB3	H	1 <i>Batillaria zonalis</i>	1883.2
		2 <i>Batillaria multiformis</i>	1241.6
		3 <i>Nassarius festivus</i>	542.4
	M	1 <i>Batillaria zonalis</i>	383.2
		2 <i>Batillaria multiformis</i>	193.6
		3 <i>Cerithidea cingulata</i>	113.6
	L	1 <i>Cerithidea diadjariensis</i>	111.2
		2 <i>Batillaria zonalis</i>	98.4
		3 <i>Cerithidea cingulata</i>	96.0
THW	H	1 <i>Cerithidea diadjariensis</i>	211.2
		2 <i>Geloina erosa</i>	36.8
		3 <i>Cerithidea cingulata</i>	6.4
	M	1 <i>Cerithidea diadjariensis</i>	418.4
		2 <i>Nassarius festivus</i>	52.0
		3 <i>Geloina erosa</i>	14.4
	L	1 <i>Cerithidea diadjariensis</i>	384.0
		2 <i>Batillaria zonalis</i>	76.0
		3 <i>Cerithidea cingulata</i>	52.0

\* H: +2mCD; M: +1.5mCD; L: +1mCD

Group	Species	TCB1			TCB2			TCB3			THW		
		H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)
Algae	<i>Ulva sp.</i>	+						+	+				
Algae	<i>Gelidium sp.</i>		+	+					+	+			
Barnacle	<i>Balanus amphitrite</i>	+		+			+	+		+		+	+
Bivalve	<i>Anomalocardia squamosa</i>			+									
Bivalve	<i>Barbatia virescens</i>		+	++						+			
Bivalve	<i>Coecella chinensis</i>		+	+						+			+
Bivalve	<i>Cyclina sinensis</i>				+		+	+		+		+	
Bivalve	<i>Geloina erosa</i>	+			+	+		+			+++	++	+
Bivalve	<i>Laternula anatina</i>	+										+	+
Bivalve	<i>Saccostrea cucullata</i>	+	++	+++	+	+	++	+	++	+++	+	++	++
Bivalve	<i>Septifer virgatus</i>			+					+	+		+	
Crab	<i>Macrophthalmus sp.</i>	+	+					+		+			
Crab	<i>Metapograpsus frontalis</i>		+		+								
Crab	<i>Metapograpsus quadridentatus</i>		+	+	+	+	+		+	+	+		+
Crab	<i>Parasesarma pictum</i>				+	+	+	+			+		
Crab	<i>Perisesarma bidens</i>										+++		
Crab	<i>Portunus pelagicus</i>			+									
Crab	<i>Uca arcuata</i>		+		++	+	+	+			+	+	+
Crab	<i>Uca borealis</i>			+	+	+	+++	+			+	+	+
Crab	<i>Uca lactea</i>	++	+	+	+	+	+	+	++		+++	+	
Fish	<i>Periophthalmus modestus</i>	+	+	+	++	+	+	+	+	+	+	++	+
Gastropod	<i>Batillaria multiformis</i>	+++	++	+	+	+	+	+++	+++	+++	+	+	+
Gastropod	<i>Batillaria zonalis</i>	++	++	++	+	+	+	+++	+++	+++	+	+	+++
Gastropod	<i>Cellana grata</i>				+				+				
Gastropod	<i>Cellana toreuma</i>		+						+				
Gastropod	<i>Cerithidea cingulata</i>	+++	+++	+	+	++	++	+++	+++	+++	+	+	+++
Gastropod	<i>Cerithidea diadjarimensis</i>	+++	+++	+	++	++	++	+++	+++	+++	+++	+++	+++
Gastropod	<i>Cerithidea rhizophorarum</i>							+			++	+	
Gastropod	<i>Clithon spp.</i>	+	+		+	+		++	+	+	+	+	+
Gastropod	<i>Hamineoa sp.</i>	+											
Gastropod	<i>Littoraria ardouiniana</i>	+						+			+		
Gastropod	<i>Littoraria articulata</i>	+	+	+	+	+		+	+	+		+	
Gastropod	<i>Littoraria melanostoma</i>	+						+			+		
Gastropod	<i>Lunella coronata</i>		+	+			+		+	+			
Gastropod	<i>Monodonta labio</i>	+	++	+	++	+		+	++	++			
Gastropod	<i>Nassarius festivus</i>							+++	++		+	++	+++
Gastropod	<i>Nerita albicilla</i>		+	+	+	+	+		+	+		+	+
Gastropod	<i>Nerita polita</i>		+		+	+	+	+	+	+		+	+
Gastropod	<i>Terebralia palustris</i>										++	+	
Gastropod	<i>Terebralia sulcata</i>				+						+++	+	
Gastropod	<i>Thais clavigera</i>		+							+			
Hermit Crab	<i>Clibanarius sp.</i>	+	+								+		
Hermit Crab	<i>Diogenes sp.</i>			+					+	+			
Horseshoe Crab	<i>Tachypleus tridentatus</i>				+			+			+	+	
Horseshoe Crab	Unidentified sp.							+			+		
Seagrass	<i>Halophila ovalis</i>							+					
Sea Slater	<i>Ligia oceanica</i>				+++								
Seaslug	<i>Onchidium sp.</i>										++		
Worm	<i>Sipunculus sp.</i>	+	+	+					+	+			
Worm	Ribbon Worm sp.		+							+			

Remark: '+' denotes the species was relatively uncommon at the area;  
 '++' denotes the species was relatively common at the area;  
 '+++' denotes the species was relatively abundant at the area.

Group	Species	TCB1																	
		H1	H2	H3	H4	H5	Density (ind. / m <sup>2</sup> or % cover)	M1	M2	M3	M4	M5	Density (ind. / m <sup>2</sup> or % cover)	L1	L2	L3	L4	L5	Density (ind. / m <sup>2</sup> or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0%
Bivalve	<i>Anomalocardia squamosa</i>						0						0				3		2.4
Bivalve	<i>Barbatia virescens</i>						0			2	1		2.4	4		1	3	1	7.2
Bivalve	<i>Coecella chinensis</i>						0					1	0.8			1			0.8
Bivalve	<i>Cyclina sinensis</i>						0						0					1	0.8
Bivalve	<i>Geloina erosa</i>			1		1	1.6						0						0
Bivalve	<i>Laternula anatina</i>			1			0.8						0						0
Bivalve	<i>Saccostrea cucullata</i>	<5%				<5%	0%		10%	5%	<5%	<5%	3%	10%	10%	25%	5%	10%	12%
Bivalve	<i>Septifer virgatus</i>						0%						0%	<5%		<5%			<5%
Crab	<i>Macrophthalmus sp.</i>						0	1					0.8						0
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>						0						0						0
Crab	<i>Uca lactea</i>					1	0.8						0						0
Gastropod	<i>Batillaria multiformis</i>	32	7	2	101	20	129.6		4	8	28	86	100.8		2				1.6
Gastropod	<i>Batillaria zonalis</i>	6	4	4	2	3	15.2	9	6	5	20	2	33.6	11	4	8	8	14	36.0
Gastropod	<i>Cellana toreuma</i>						0			1			0.8						0
Gastropod	<i>Cerithidea cingulata</i>	16	5	20		8	39.2		114		62	30	164.8						0
Gastropod	<i>Cerithidea diadjariensis</i>	142	56	49	168	59	379.2	48	40	10	54	44	156.8	4	6				8.0
Gastropod	<i>Clithon spp.</i>						0				6	5	8.8						0
Gastropod	<i>Littoraria articulata</i>						0			2			1.6						0
Gastropod	<i>Lunella coronata</i>						0						0			3	2		4.0
Gastropod	<i>Monodonta labio</i>						0		2			4	4.8	2				3	4.0
Gastropod	<i>Nassarius festivus</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0		1				0.8						0
Gastropod	<i>Terebralia palustris</i>						0						0						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Gastropod	<i>Thais clavigera</i>						0	1					0.8						0
Hermit Crab	<i>Clibanarius sp.</i>						0						0		1		2		2.4
Hermit Crab	<i>Diogenes sp.</i>						0						0						0
Seaslug	<i>Onchidium sp.</i>						0						0						0
Worm	<i>Sipunculus sp.</i>					1	0.8			1			0.8			1	1		1.6
Worm	Ribbon Worm sp.						0	1				3	3.2						0

Group	Species	TCB2																	Density (ind. / m <sup>2</sup> or % cover)
		H1	H2	H3	H4	H5	Density (ind. / m <sup>2</sup> or % cover)	M1	M2	M3	M4	M5	Density (ind. / m <sup>2</sup> or % cover)	L1	L2	L3	L4	L5	Density (ind. / m <sup>2</sup> or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0				<5%		<5%
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0						0
Bivalve	<i>Coecella chinensis</i>						0						0						0
Bivalve	<i>Cyclina sinensis</i>				1		0.8						0				1		0.8
Bivalve	<i>Geloina erosa</i>		1		1		1.6			1			0.8						0
Bivalve	<i>Laternula anatina</i>						0						0						0
Bivalve	<i>Saccostrea cucullata</i>					<5%	<5%						0%	<5%	5%	5%	<5%		2%
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%
Crab	<i>Macrophthalmus sp.</i>						0						0						0
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>					1	0.8						0			1			0.8
Crab	<i>Uca lactea</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>						0						0						0
Gastropod	<i>Batillaria zonalis</i>	4					3.2		2				2		2	4			4.8
Gastropod	<i>Cellana toreuma</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>		10		2		9.6	70	3		4	2	63.2	26			2		22.4
Gastropod	<i>Cerithidea diadjariensis</i>	14	38	19	10	36	93.6	30	15	18	52	30	116.0	8	4	5	2	6	20.0
Gastropod	<i>Clithon spp.</i>						0						0						0
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>						0						0						0
Gastropod	<i>Nassarius festivus</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>						0						0						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Gastropod	<i>Thais clavigera</i>						0						0						0
Hermit Crab	<i>Clibanarius sp.</i>						0						0						0
Hermit Crab	<i>Diogenes sp.</i>						0						0						0
Seaslug	<i>Onchidium sp.</i>						0						0						0
Worm	<i>Sipunculus sp.</i>						0						0						0
Worm	Ribbon Worm sp.						0						0						0

Group	Species	TCB3																	Density (ind. / m <sup>2</sup> or % cover)
		H1	H2	H3	H4	H5	Density (ind. / m <sup>2</sup> or % cover)	M1	M2	M3	M4	M5	Density (ind. / m <sup>2</sup> or % cover)	L1	L2	L3	L4	L5	Density (ind. / m <sup>2</sup> or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%	10%		5%	5%		4%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0		3			2	4
Bivalve	<i>Coecella chinensis</i>						0						0		1		1		1.6
Bivalve	<i>Cyclina sinensis</i>		1	1			1.6						0				1		0.8
Bivalve	<i>Geloina erosa</i>	1					0.8						0						0
Bivalve	<i>Laternula anatina</i>						0						0						0
Bivalve	<i>Saccostrea cucullata</i>		<5%	5%			4%	<5%	5%			10%	3%	30%		20%	25%		15%
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%
Crab	<i>Macrophthalmus sp.</i>					1	0.8						0			1			0.8
Crab	<i>Metapograpus quadridemtatus</i>						0						0			1	1		1.6
Crab	<i>Parasesarma pictum</i>				1		0.8						0						0
Crab	<i>Uca lactea</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>	744	28	375	213	192	1241.6	17	24	111	90		193.6	4	56	3	4	6	58.4
Gastropod	<i>Batillaria zonalis</i>	972	12	752	177	441	1883.2	148	36	218	75	2	383.2	18	70	8	11	16	98.4
Gastropod	<i>Cellana toreuma</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>	9	10	93	28	36	140.8	18	16	2	50	56	113.6		42		10	68	96.0
Gastropod	<i>Cerithidea diadjarimensis</i>	7	5	6	30	27	60.0	28	34	48	24	4	110.4	24	23	32	48	12	111.2
Gastropod	<i>Clithon spp.</i>	2		11		3	12.8						0						0
Gastropod	<i>Littoraria articulata</i>						0	6		1			5.6		2				1.6
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>	3					2.4				2		1.6		5		3		6.4
Gastropod	<i>Nassarius festivus</i>	330	20	292	12	24	542.4	6		26			25.6						0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>						0						0						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Gastropod	<i>Thais clavigera</i>						0						0			1			0.8
Hermit Crab	<i>Clibanarius sp.</i>						0						0						0
Hermit Crab	<i>Diogenes sp.</i>						0		1				0.8				1		0.8
Seaslug	<i>Onchidium sp.</i>						0						0						0
Worm	<i>Sipunculus sp.</i>						0	2					1.6		4				3.2
Worm	Ribbon Worm sp.						0						0	3					2.4

Group	Species	THW																	
		H1	H2	H3	H4	H5	Density (ind. / m <sup>2</sup> or % cover)	M1	M2	M3	M4	M5	Density (ind. / m <sup>2</sup> or % cover)	L1	L2	L3	L4	L5	Density (ind. / m <sup>2</sup> or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%			<5%	<5%		<5%
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0						0
Bivalve	<i>Coecella chinensis</i>						0						0			1			0.8
Bivalve	<i>Cyclina sinensis</i>						0			1			0.8						0
Bivalve	<i>Geloina erosa</i>	12	6	9	13	6	36.8	6	6	1	5		14.4			1	1		1.6
Bivalve	<i>Laternula anatina</i>						0	1	1	4			1.2		1				0.2
Bivalve	<i>Saccostrea cucullata</i>					<5%	<5%	5%			5%	10%	4%				10%		2%
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%
Crab	<i>Macrophthalmus sp.</i>						0						0						0
Crab	<i>Metapograpsus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>				1		0.8						0						0
Crab	<i>Uca lactea</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>						0				6	4	8						0
Gastropod	<i>Batillaria zonalis</i>						0						0	15	22	4	9	45	76.0
Gastropod	<i>Cellana toreuma</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>			2	6		6.4	3					2.4	38	7	6	4	10	52.0
Gastropod	<i>Cerithidea diadjariensis</i>	68	63	72	48	13	211.2	120	118	83	108	94	418.4	142	130	21	65	122	384.0
Gastropod	<i>Clithon spp.</i>			2			1.6					1	0.8					6	4.8
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>						0						0						0
Gastropod	<i>Nassarius festivus</i>				1		0.8		2	5		58	52.0	8	2	30		10	40.0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>	3		1	1		4.0						0						0
Gastropod	<i>Terebralia sulcata</i>	1	3	3			5.6						0						0
Gastropod	<i>Thais clavigera</i>						0						0						0
Hermit Crab	<i>Clibanarius sp.</i>						0						0						0
Hermit Crab	<i>Diogenes sp.</i>						0						0						0
Seaslug	<i>Onchidium sp.</i>					4	3.2						0						0
Worm	<i>Sipunculus sp.</i>						0						0						0
Worm	Ribbon Worm sp.						0						0						0



## ANNEX J3    EVENT AND ACTION PLAN

**Annex J3**      **Event and Action Plan for Soft Shore Ecological Monitoring**

Event	Action			
	ET	IEC	ER	Contractor
Density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	<ol style="list-style-type: none"> <li>1. Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences;</li> <li>2. Identify source(s) of impact;</li> <li>3. Inform the IEC, ER and Contractor;</li> <li>4. Check monitoring data;</li> <li>5. Discuss additional monitoring and any other measures, with the IEC, ER and Contractor.</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 proposals for additional monitoring and any other measures submitted 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. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET;</li> <li>2. Make agreement on the measures to be implemented.</li> </ol>	<ol style="list-style-type: none"> <li>1. Inform the ER and in writing;</li> <li>2. Discuss with the ET and the IEC and propose measures to the IEC and the ER;</li> <li>3. Implement the agreed measures;</li> <li>4. Resubmit proposals of remedial actions 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>



## ANNEX K LANDSCAPE AND VISUAL MONITORING



# ERM

ANNEX K1

EXAMPLES OF LANDSCAPE AND VISUAL  
MITIGATION MEASURES



Photo 1 – Tree protection zone for preserved plant species of conservation importance



Photo 2 – General view of compensation woodland



Photo 3 – Erection of site hoardings in unobtrusive colours



Photo 4 – Natural Rock Material/Planting for Artificial Seawall

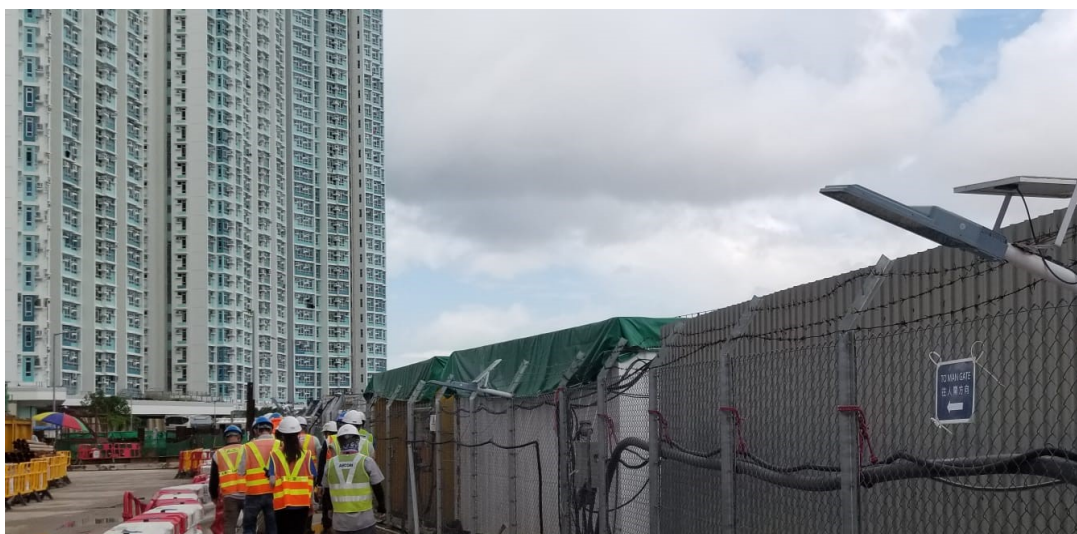


Photo 5 – Orientation of night time lighting to minimize glare impact



ANNEX K2

EVENT AND ACTION PLAN FOR  
LANDSCAPE AND VISUAL MITIGATION  
MEASURES

**Annex K2**      *Event and Action Plan for Landscape and Visual*

Event	Action			
	ET	IEC	ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	1. Check report. 2. Recommend remedial design if necessary.	1. Undertake remedial design if necessary.	
Non-conformity on one occasion	1. Inform the IEC, ER and the Contractor 2. Discuss remedial actions with IEC, ER and Contractor 3. Monitor remedial actions until rectification has been completed	1. Check report. 2. Check Contractor's working method 3. Discuss with ET, ER and Contractor on possible remedial measures. 4. Advise ER on effective of proposed remedial measures. 5. Check implementation of remedial measures	1. Confirm receipt of notification of non-conformity in writing 2. Review and agree on the remedial measures proposed by the Contractor 3. Ensure remedial measures are properly implemented	1. Identify source and investigate the non-conformity 2. Amend working methods agreed with ER as appropriate 3. Rectify damage and undertake any necessary replacement
Repeated Non-conformity	1. Identify sources 2. Inform the Contractor, IEC and ER 3. Discuss inspection frequency 4. Discuss remedial actions with IEC, ER and Contractor 5. Monitor remedial actions until rectification has been completed 6. If non-conformity stops, cease additional monitoring	1. Check inspection report 2. Check Contractor's working method 3. Discuss with ET, ER and Contractor on possible remedial measures 4. Advise ER on effectiveness of proposed remedial measures	1. Notify the Contractor 2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented 3. Supervise implementation of remedial measures	1. Identify source and investigate the non-conformity 2. Amend working methods agreed with ER as appropriate 3. Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.



## ANNEX L

## CUMULATIVE STATISTICS ON EXCEEDANCES, ENVIRONMENTAL COMPLAINTS, NOTIFICATION OF SUMMONS AND STATUS OF PROSECUTIONS

**Table L1**      **Cumulative Statistics on Exceedances**

		Total No. recorded in this reporting period (1)	Total No. recorded since project commencement
Air Quality (1-hr TSP)	Action	0	0
	Limit	0	0
Noise	Action	0	84
	Limit	0	0
Water Quality	Action	0	0
	Limit	0	0
Marine Ecology	Action	0	0
	Limit	0	0

Remark:

(1) Exceedances, which are not project related, are not shown in this table.

**Table L2**      **Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions**

Contract No.	Reporting Period	Cumulative Statistics		
		Complaints	Notifications of Summons	Prosecutions
Contract 1	This Reporting Period (1 – 30 June 2025)	0	0	0
	Total no. received since project commencement	111	0	0
Contract 2	This Reporting Period (1 – 30 June 2025)	1	0	0
	Total no. received since project commencement	8	0	0
Contract 3	This Reporting Period (1 – 30 June 2025)	1	0	0
	Total no. received since project commencement	75	0	0
Contract 7	This Reporting Period (1 – 30 June 2025)	0	0	0
	Total no. received since project commencement	3	0	0



ANNEX M

MONITORING SCHEDULE FOR THE NEXT  
REPORTING PERIOD

**Tung Chung New Town Extension (East)**  
**Air Quality and Noise Monitoring Schedule (July 2025)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Jul	02-Jul	03-Jul	04-Jul	05-Jul
						Air Quality and Noise Monitoring
06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul
					Air Quality and Noise Monitoring	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
				Air Quality and Noise Monitoring		
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
			Air Quality and Noise Monitoring			
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
		Air Quality and Noise Monitoring				



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Guyana	South Korea
Hong Kong	Spain
India	Switzerland
Indonesia	Taiwan
Ireland	Tanzania
Italy	Thailand
Japan	UAE
Kazakhstan	UK
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