# **Tung Chung New Town Extension**



12<sup>th</sup> PLG Meeting Date: 6 June 2025



### Agenda

- 1. Confirmation of Last Meeting Minutes
- 2. Tung Chung East
  - a) Matters Arising from Last Meeting
  - b) Overview and Progress
  - c) Environmental Monitoring and Audit (EM&A)
- 3. Tung Chung West
  - a) Matters Arising from Last Meeting
  - b) Overview and Progress
  - c) Environmental Monitoring and Audit (EM&A)
- 4. AOB

# 2. Tung Chung East a. Matters Arising from Last Meeting

# 2. Tung Chung Eastb. Overview and Progress

# **Tung Chung East Reclamation (Completed)**

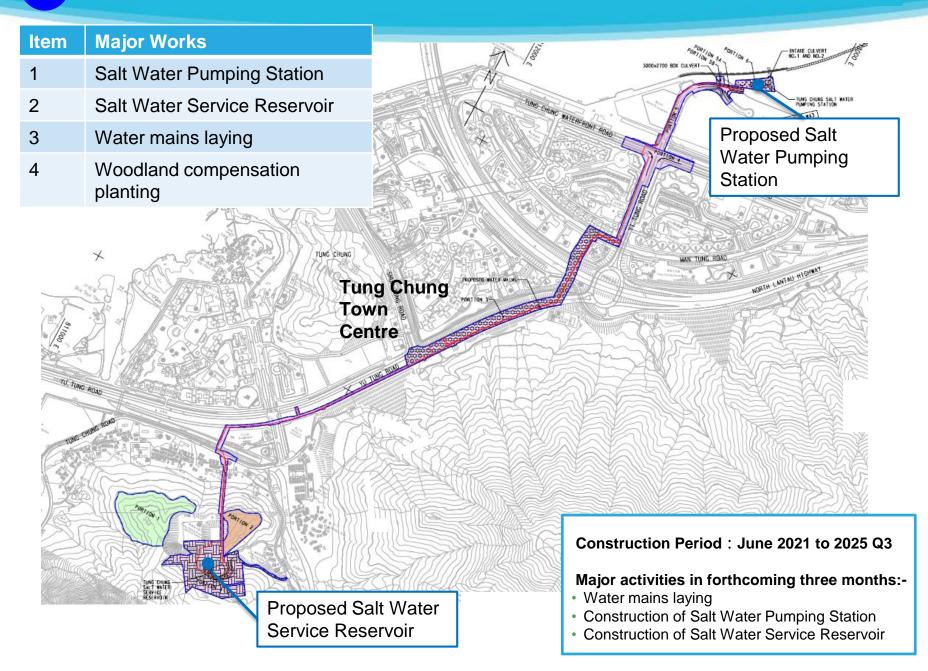


- $^{(1)}$  130 hectares land reclamation by non-dredged method
- ② Construction of 4.9 km seawalls partly with eco-shorelines (3.8km)

# **Tung Chung East Reclamation (Completed)**



#### Contract No. NL/2020/02



#### Contract No. NL/2020/02

# Salt Water Pumping Station (SWPS)

# Construction Period 2021 Q4 to 2025 Q3

#### **Related Works**

- E&M Works
- ABWF Works

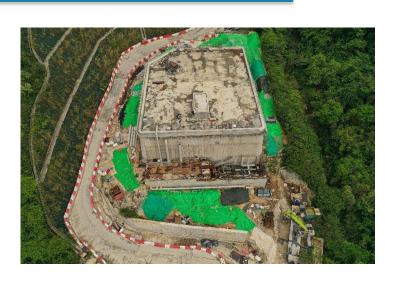


### **Salt Water Service Reservoir**

# Construction Period 2022 Q2 to 2025 Q3

#### **Related Works**

E&M Works



# **Watermain Laying**

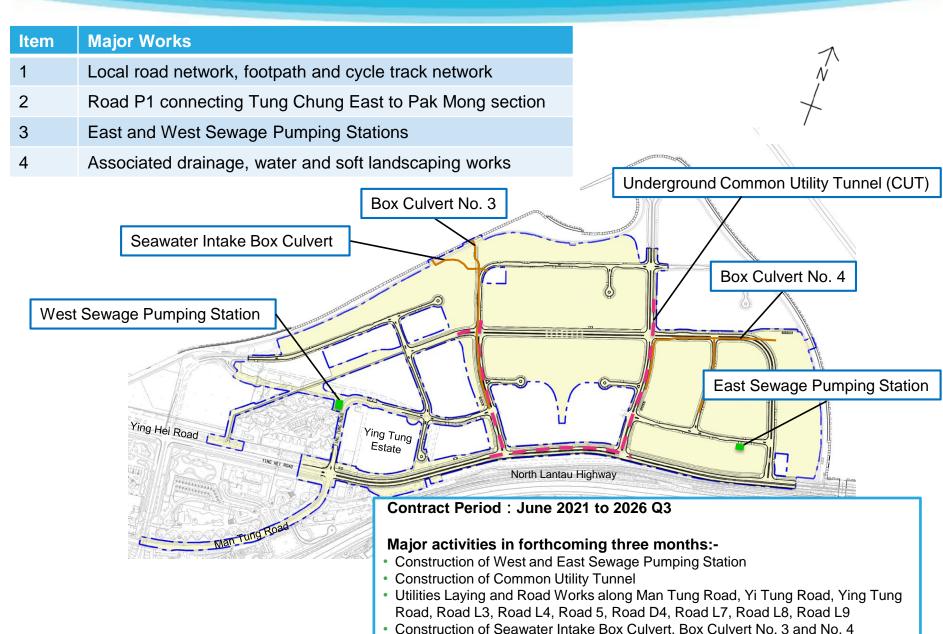
Construction Period 2021 Q4 to 2025 Q3

- TTA and traffic diversion
- Watermain Laying



# СЗ

#### Contract No. NL/2020/03



## **West Sewage Pumping Station (WSPS)**

# **Anticipated Commissioning Date** 2025 Q3

- ABWF works
- T&C works



# **Common Utility Tunnel (CUT) (Phase 1)**

# Construction Period 2021 Q3 to 2025 Q3

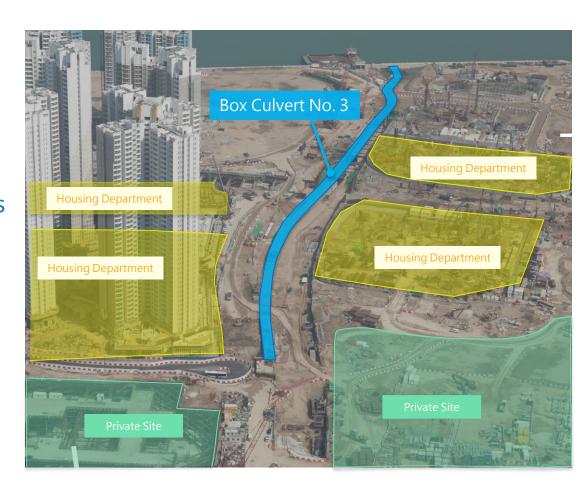
- Underground R.C. structures
- Backfilling Works



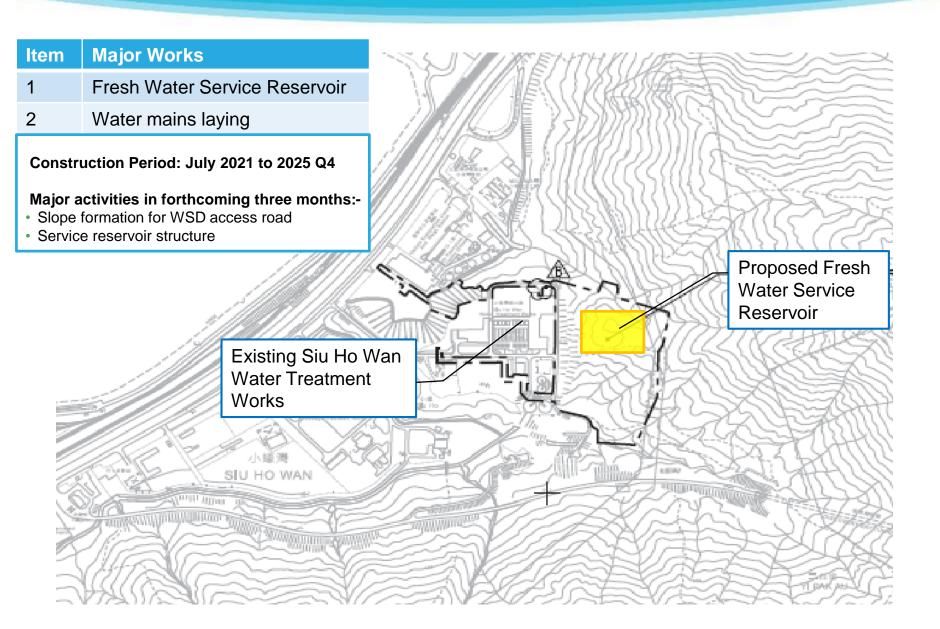
#### **Box Culvert No. 3**

Construction Period 2023 Q4 to 2025 Q3

- Precast Units Installation
- Underground R.C. structures



#### Contract No. NL/2020/04



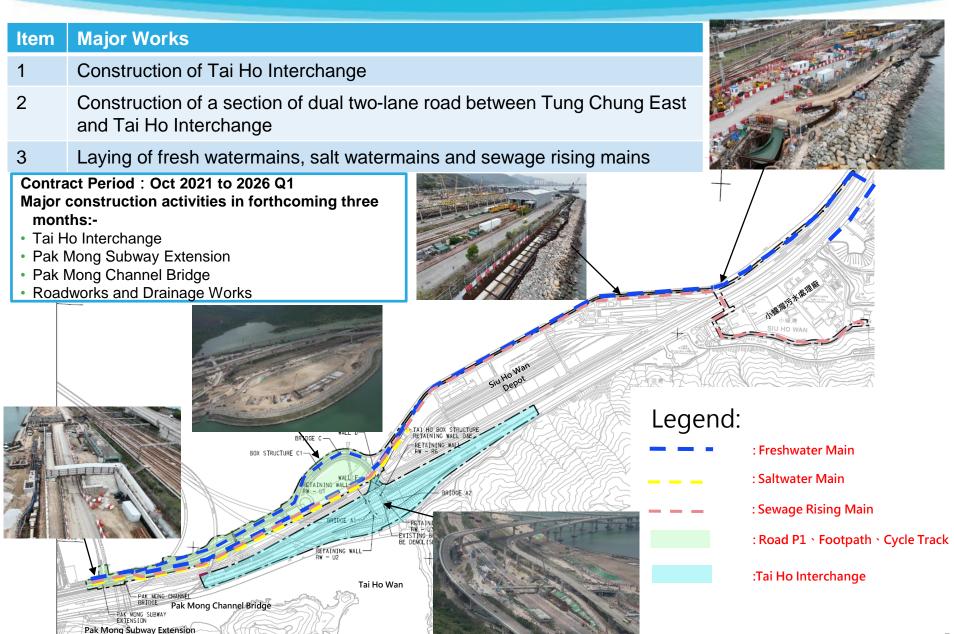
#### **Fresh Water Service Reservoir**

# Construction Period 2022 Q2 to 2025 Q4

- R.C. structures
- Slope works



#### Contract No. NL/2020/07

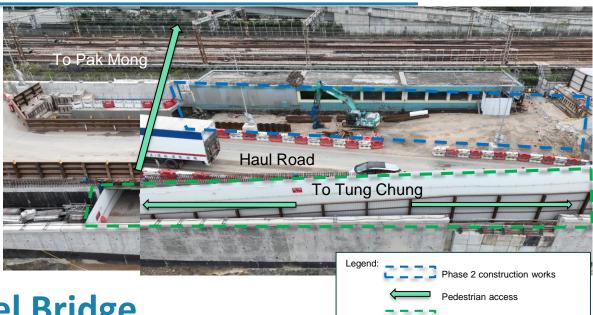


# **Pak Mong Subway Extension**

**Construction Period** 2022 Q2 to 2026 Q1

#### **Related Works**

- R.C. structure
- Demolition of existing subway



### **Pak Mong Channel Bridge**

**Construction Period** 2023 Q1 to 2025 Q4

- **Bridge construction**
- Laying of utilities



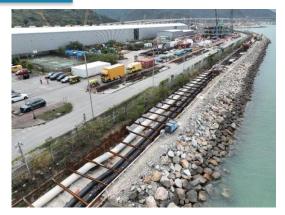


# Main-laying works (Rising, Fresh and Salt Water Mains)

#### Construction Period 2021 Q3 to 2025 Q4 Related Works

 Testing and Backfilling of rising mains, fresh and salt watermains





# **Construction of Tai Ho Interchange**

#### Construction Period 2022 Q3 to 2026 Q1 Related Works

- R.C. structure
- Bridge erection
- Temporary Traffic
   Arrangement for road and drainage works



### **Eco-shoreline Monitoring**

#### Background:

• Eco-shoreline Implementation Plan was submitted in accordance with Project Environmental Permit (Permit No. EP-519/2016) Condition 2.14

#### Eco-shoreline Implementation Plan includes the following:

- Monitoring works on Mangrove Eco-shoreline, Rocky Eco-shoreline and Vertical Eco-shoreline
  - include Avifauna, Epifauna, Infauna, Vegetation and various physical parameters
  - carry out twice during dry season and twice during wet season
- Ichthyoplankton and Juvenile Fish survey
  - carry out on a monthly basis from May to August
- Monitoring Work for 3 years (2024-26)



Mangrove Eco-shoreline



Rocky Eco-shoreline



Vertical Eco-shoreline

# **Eco-shoreline Monitoring**

#### Monitoring Location:



# Contract No. NL/2020/03

### **Eco-shoreline Monitoring**

#### Current Progress:

- 1<sup>st</sup> year monitoring works were completed
- 2<sup>nd</sup> year monitoring works
  - Monitoring Works in Dry Season were completed
    - Half-year report was submitted to EPD
  - Monitoring Works in Wet Season is on-going
  - Ichthyoplankton and Juvenile Fish survey from May to August is on-going

### **Eco-shoreline Monitoring**

#### 2<sup>nd</sup> Year Eco-shoreline and Reference Monitoring in Dry Season:

- The conclusion is summarized as below:
  - 12, 6 and 5 bird species were found in the Mangrove Eco-shoreline, Rocky Eco-shoreline and Vertical Eco-shoreline respectively versus 3 bird species found in its reference for Rocky Eco-shoreline.
  - 18 epifauna and infauna species and were found in Mangrove Eco-shoreline
  - 65 epifauna species were found in the Rocky Eco-shoreline versus 23 species found in its reference.
  - 32 epifauna species were found in the Vertical Eco-shoreline versus 19 species found in its reference.

#### Mangrove eco-shoreline

- Normal condition with acceptable mortality
- Algae observed, which may hinder the growth and affect the survival of mangrove

#### **Rocky and Vertical**

- Higher biodiversity was observed
- Higher number of species was present in eco-shoreline than the conventional reference locations
- The intrusions and water pool may provide microhabitats with lower heat and desiccation stress

# 2. Tung Chung East

c) Environmental Monitoring and Audit

# **Dedicated Website under EP-519/2016**

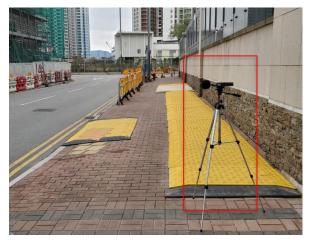
Website: <a href="http://env.tcnte.hk/index-TCE.html">http://env.tcnte.hk/index-TCE.html</a>



# Protection and Mitigation Measures on Construction Activities



Water spraying by water truck for dust control



Noise monitoring



Wheel washing bay with high pressure jet



Noise barrier



Green net installation



Noise mitigation measures

# **Protection and Mitigation Measures on Construction Activities**



Real time tracking and monitoring system for dump trucks



Trip ticket for waste control

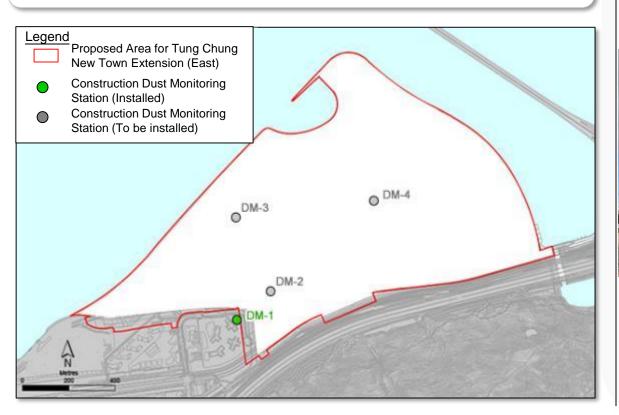
# **EM&A Monitoring – Air Quality**



**Air Quality Monitoring** 

Frequency Three times every six days

Monitoring Parameter 1-hour Total Suspended Particulate



# Monitoring Results between Sep 2024 and Apr 2025

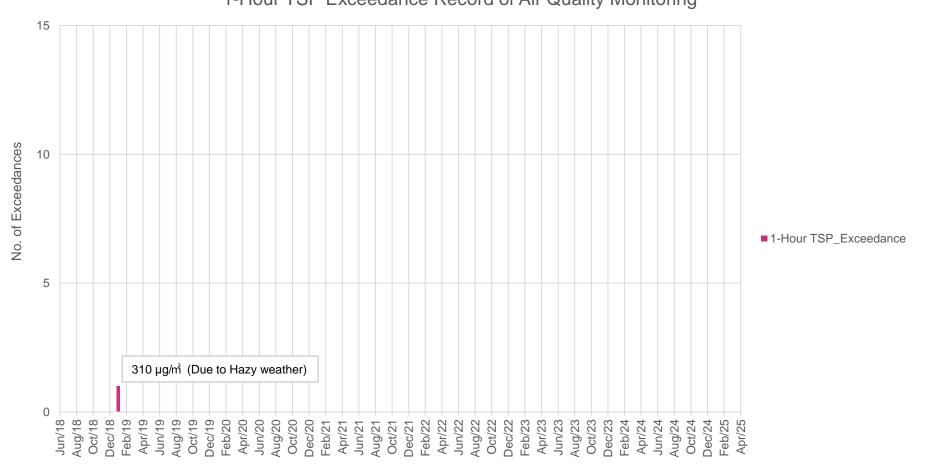
No project-related exceedance was recorded.



Dust monitoring near Ying Tung Estate (DM-1)

## **EM&A Monitoring – Air Quality**

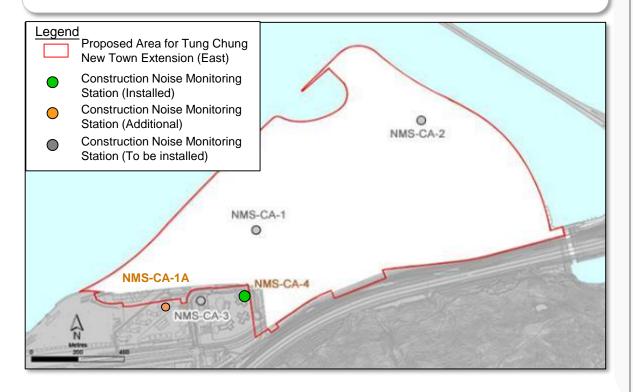
# Tung Chung New Town Extension - Reclamation and Advance Works 1-Hour TSP Exceedance Record of Air Quality Monitoring



### **EM&A Monitoring – Noise**



#### **Noise Monitoring**



# Monitoring Results between Sep 2024 and Apr 2025

Results of noise monitoring indicated that noise levels were within acceptable level (75dBA)

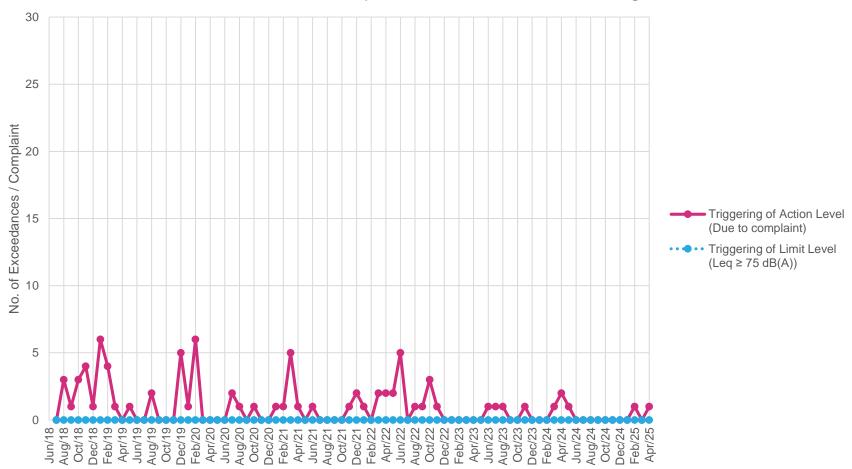


Noise monitoring near Ying Tung Estate (NMS-CA-4)

### **EM&A Monitoring – Noise**

#### **Tung Chung New Town Extension - Reclamation and Advance Works**

Exceedance / Complaint Record of Noise Monitoring



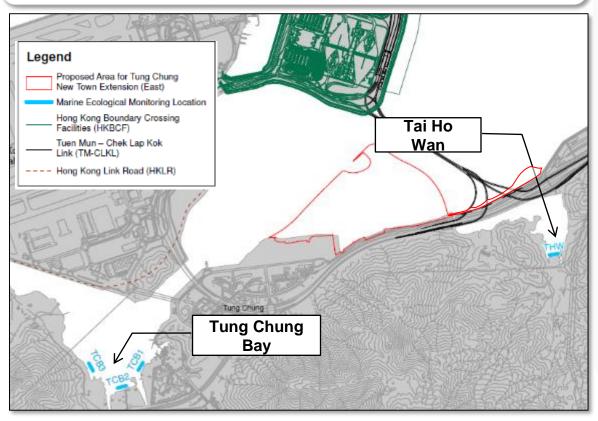
# **EM&A Monitoring – Ecology**



#### **Ecological Monitoring**

Frequency Quarterly

Monitoring Parameter Horseshoe Crabs, Seagrass, Intertidal
Soft Shore Communities



# Monitoring Results between Sep 2024 and Mar 2025

Horseshoe crabs were found in both Tung Chung Bay and Tai Ho Wan.

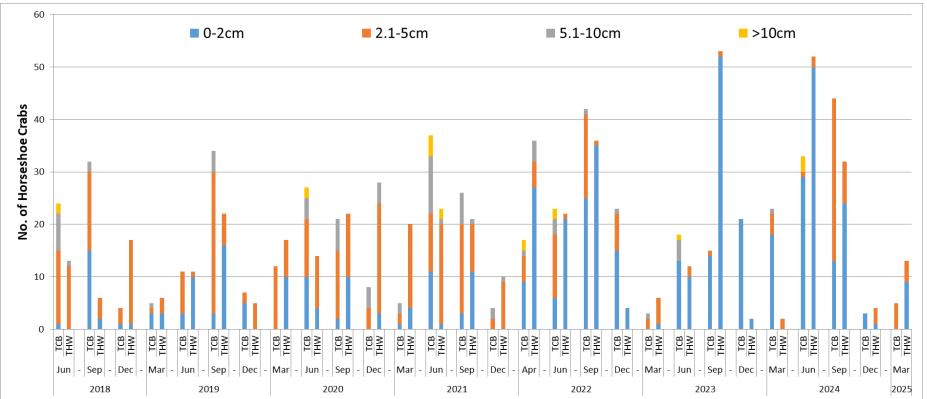




#### **Horseshoe Crab**

- Numbers of horseshoe crabs varied over time and were generally higher in summer period (May Sep)
- Small juvenile horseshoe crabs (prosomal width <2 cm) were recorded during all impact monitoring since Sep 2018

#### **Size (Prosomal Width) of Horseshoe Crabs**



Baseline (May-Jun 18) Post-Construction Monitoring (Dec 2023)

# **Complaint received**

Date	Water	Air	Noise	Others (Light, Waste. Ecology)
September 2024	0	2	0	0
October 2024	0	1	0	0
November 2024	0	0	0	0
December 2024	0	0	0	0
January 2025	0	1	1	0
February 2025	1	2	1	0
March 2025	0	0	1	1
April 2025	0	0	1	0
Categories for recent complaints	Plume near seawall	<ul><li>Dust</li><li>Muddy track</li></ul>	<ul> <li>Noise at night and during restricted hours</li> </ul>	• Floodlight

# 12th Professional Liaison Group Meeting - Agenda

- 3. Tung Chung West
- a) Matters Arising from Last Meeting Nil
- b) Overview and Progress
- c) Environmental Monitoring and Audit







3. Tung Chung West

b) Overview and Progress

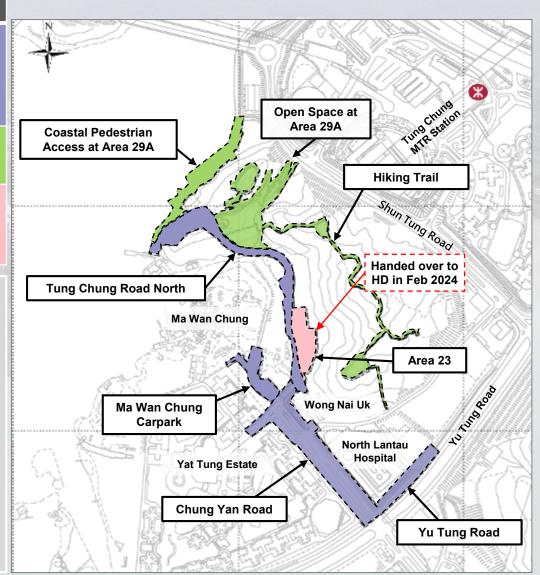
### Contract No. NL/2020/05 - Site Formation & Infrastructure Works at Ma Wan Chung

	Item	Major Works
	1	Widening of Tung Chung Road North, Construction of Ma Wan Chung Carpark and Road Improvement Works and Drainage Works at Chung Yan Road
	2	Construction of Open Space at Area 29A and Coastal Pedestrian Access
	3	Site Formation of Area 23 (Completed and handed over to Housing Department)

Contract Period: May 2021 to 2025

Major activities in coming three months:-

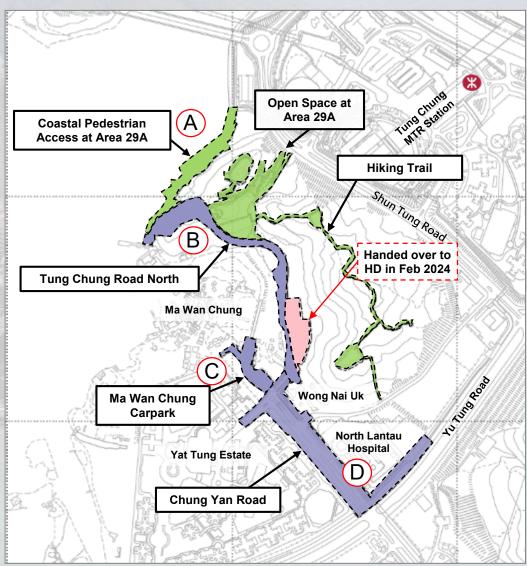
- Slope works
- Construction of underground utilities and road works
- Construction of retaining walls
- Upgrading works of existing hiking trail



# Contract No. NL/2020/05 - Site Progress





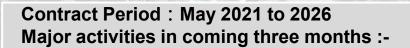




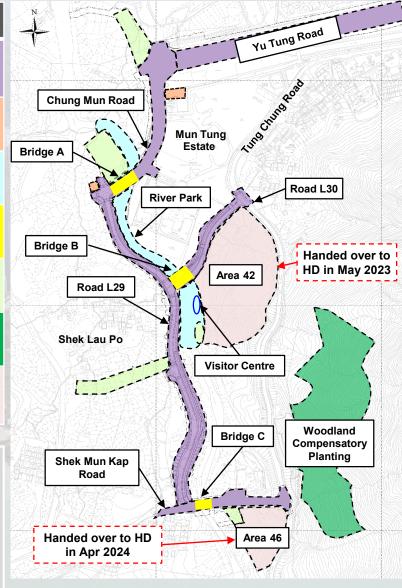


#### Contract No. NL/2020/06 - Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1

ltem	Major Works
1	Road Works at Yu Tung Road, Chung Mun Road, Road L29, Road L30 & Shek Mun Kap Road
2 & 3	Sewage Pumping Stations
4	River Park & Visitor Centre
5	Bridges across Tung Chung Stream
6	Sustainable Urban Drainage System
7	Woodland Compensatory Planting (Completed)
8	Site Formation at Area 42 & Area 46 (Completed and handed over to HD)



- Construction of underground utilities and road works
- Construction of sewage pumping stations
- Construction of retaining walls
- Construction of River Park and Visitor Centre
- Construction of bridges
- Construction of box culvert
- Construction of attenuation ponds



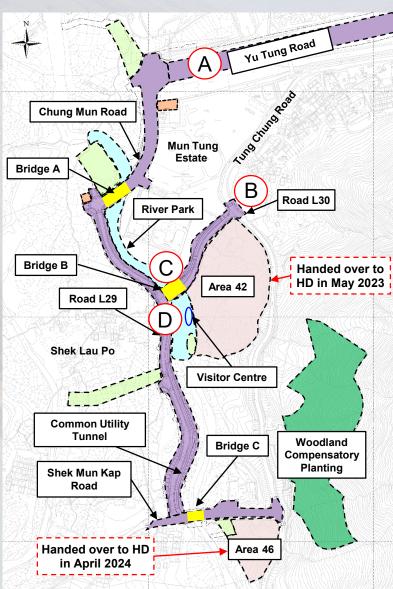


### Contract No. NL/2020/06 - Site Progress





Road L30 Underground Utilities Works & Roadworks



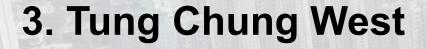












c) Environmental Monitoring and Audit

### **Environmental Mitigation Measures for Construction Activities**



Water spraying via sprinklers at main access road



Wheel washing facility at the site exit



Water spraying by water truck along haul road



Covering excavated stockpiles by impervious sheeting

# **Environmental Mitigation Measures for Construction Activities** (Cont'd)



Deployment of noise barrier

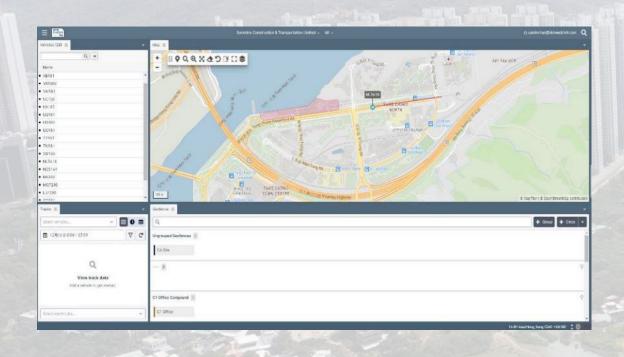


Wrapping of breaker tip with noise acoustic material



Wastewater treatment facility

# **Environmental Mitigation Measures for Construction Activities** (Cont'd)





Realtime tracking on the travelling routes of dump trucks

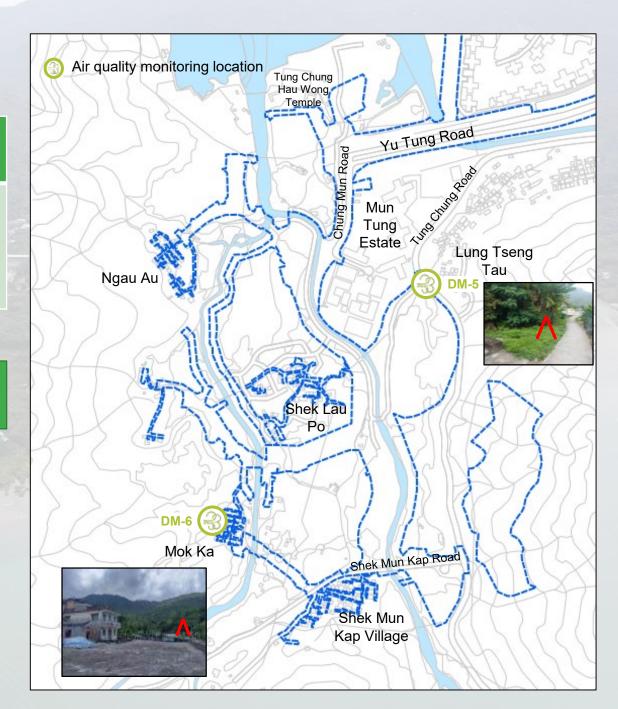
CHIT for waste disposal

# **EM&A Monitoring – Air Quality**

À	ID	Description	Monitoring Parameter	Monitoring Frequency
	DM-5	Lung Tseng Tau	41, 700	Three times
	DM-6	Mok Ka	1-hr TSP	every six days

Monitoring Results from Sep 2024 to Apr 2025

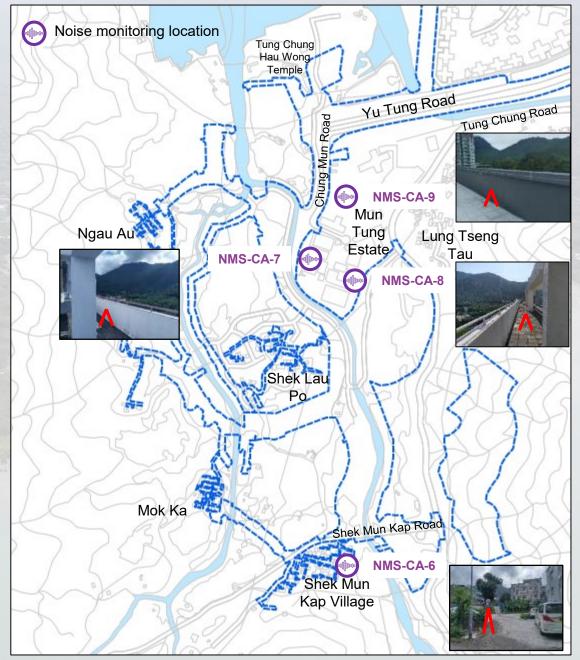
No exceedance was recorded



# **EM&A Monitoring – Noise**

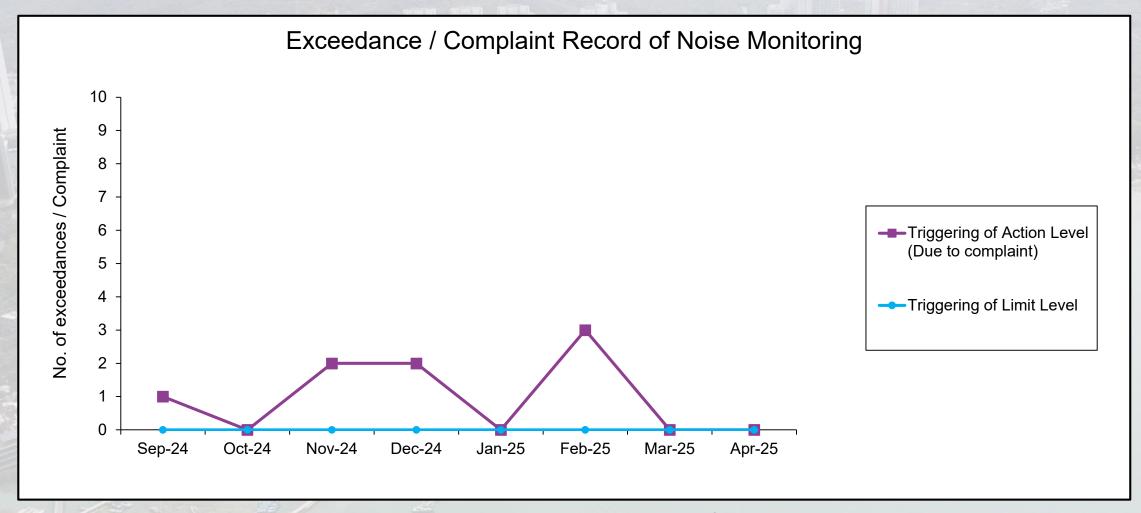
ID	Description	Monitoring Parameter	Monitoring Frequency	
NMS-CA-5	Village house in Ma Wan Chung			
NMS-CA-6	Village house in Shek Mun Kap			
NMS-CA-7	YMCA of Hong Kong Christian College (Roof Floor)	A-weighted equivalent continuous sound	Once per week	
NMS-CA-8	Caritas Wu Cheng- Chung College (Roof Floor)			
NMS-CA-9	Hong Chi Shiu Pong Morninghope School (Roof Floor)			





#### **EM&A Monitoring – Noise**

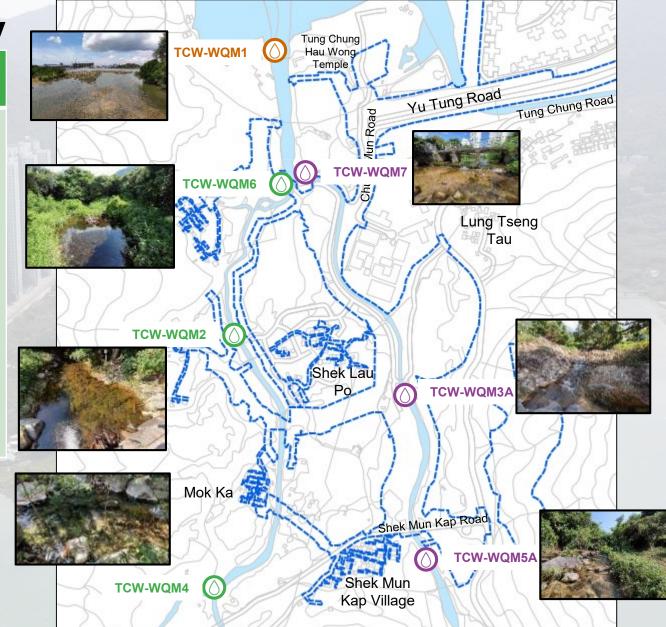
Statistics of Exceedance from Sep 2024 to Apr 2025



Exceedance as recorded in the reporting period was due to the receipt of noise complaint

## **EM&A Monitoring – Water Quality**

ID	Description	Monitoring Parameter	Monitoring Frequency	
TCW-WQM-1	Downstream of Tung Chung Stream			
TCW-WQM-2	Middle of Tung Chung Stream (West)	<ul> <li>Temperature</li> <li>Salinity</li> <li>Conductivity</li> <li>pH</li> <li>Dissolved</li></ul>	3 days per week	
TCW-WQM-3A	Middle of Tung Chung Stream (East)			
TCW-WQM-4	Upstream of Tung Chung Stream (West)			
TCW-WQM-5A	Upstream of Tung Chung Stream (East)			
TCW-WQM-6	Downstream of Tung Chung Stream (West)	Collus		
TCW-WQM-7	Downstream of Tung Chung Stream (East)			



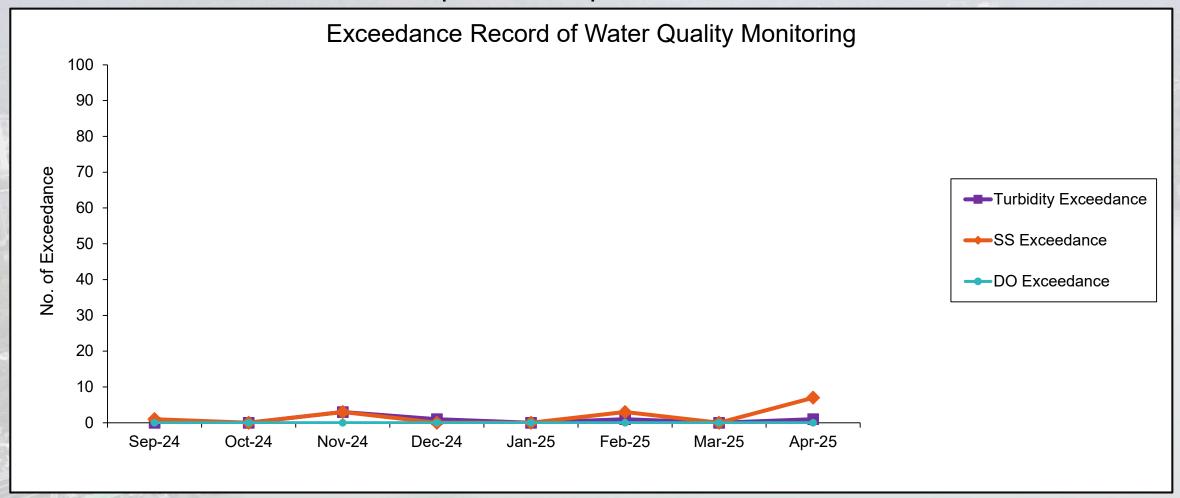
Stream water quality monitoring location (River Mouth)

Stream water quality monitoring location (West Tributary)

Stream water quality monitoring location (East Tributary)

#### **EM&A Monitoring – Water Quality**

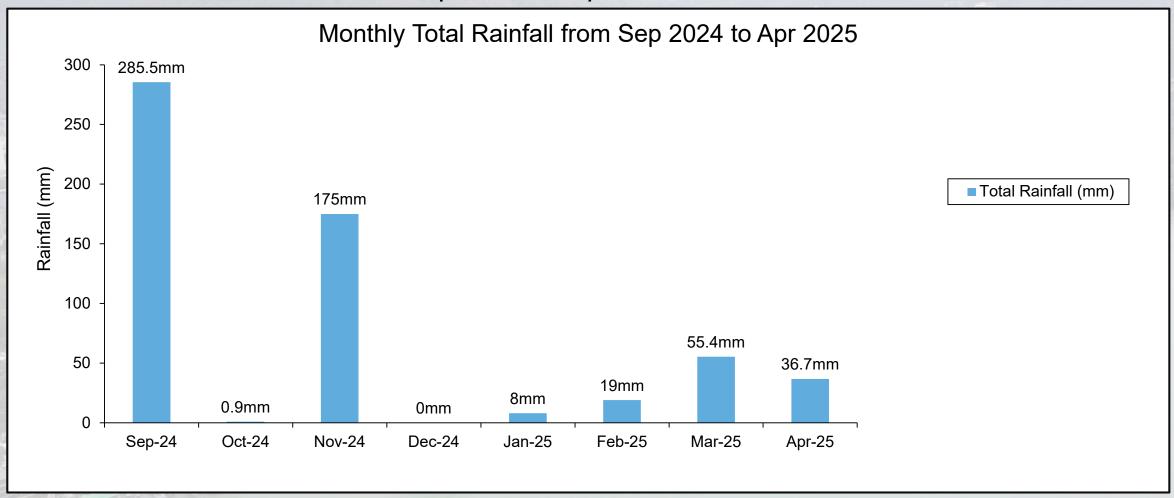
Statistics of Exceedance from Sep 2024 to Apr 2025



- 1. Impact monitoring is carried out at seven stations for three times per week.
- 2. Exceedances as recorded in the reporting period were mainly due to the inclement weather.
- 3. The implementation of environmental mitigation measures by Contractor was in general satisfactory and no deficiencies in practices were observed.

### **EM&A Monitoring – Water Quality**

Statistics of Exceedance from Sep 2024 to Apr 2025



Note: Monthly rainfall data was extracted from the manned weather station located at Hong Kong International Airport by Hong Kong Observatory.

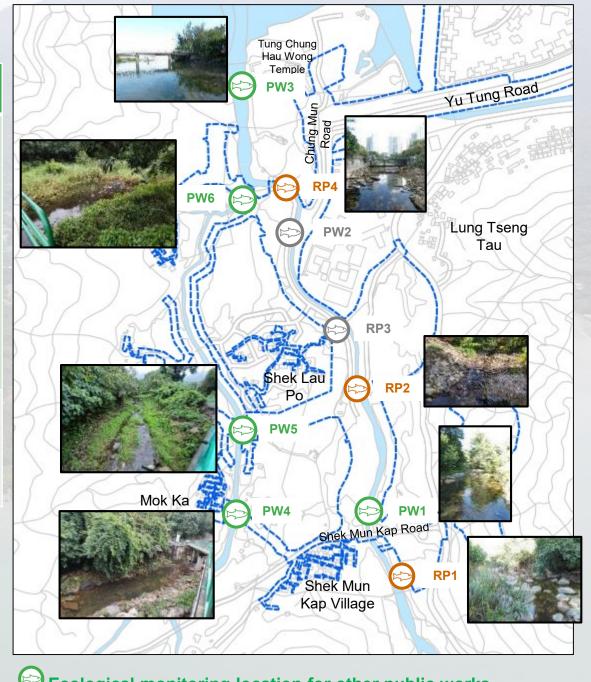
### **EM&A Monitoring – Ecology**

ID	Description	Monitoring Parameter	Monitoring Frequency		
RP1	Conservation Zone (Natural Section)	<ul> <li>Water Quality [Note]</li> <li>Taxa diversity of Fish Species and Aquatic Invertebrate</li> </ul>			
RP2	Upstream of River Park				
RP3	Revitalisation Zone (Channelised Section)				
RP4	Downstream of River Park		Once per month		
PW1	Near Public Works				
PW2	Near Public Works				
PW3	Near Public Works				
PW4	Near Public Works		Decelies and a Marin a		
PW5	Near Public Works		Baseline monitoring was completed in Mar		
PW6	Near Public Works		2024		

#### Notes:

- Ammonia as N рН
- Salinity Total Kjeldahl Nitrogen
- Temperature E. Coli
- **Biochemical Oxygen Demand** Turbidity
- Dissolved Oxygen Chemical Oxygen Demand

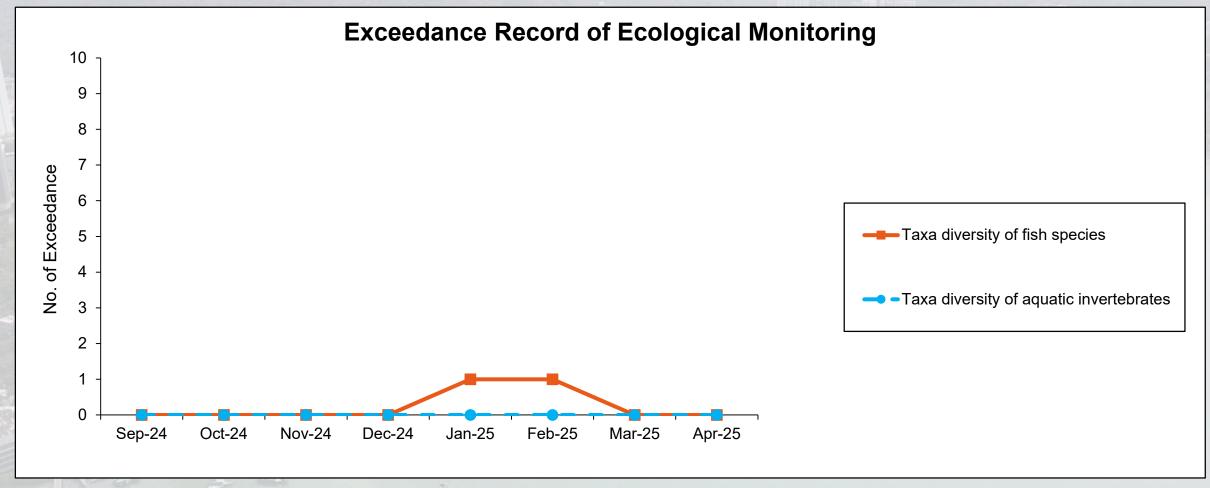
Suspended Solids Oil & Grease Ecological Monitoring at the monitoring station RP3 and PW2 were suspended since March 2023 with the commencement of temporary river diversion in Tung Chung Stream.



Ecological monitoring location for other public works Ecological monitoring location for the proposed River Park 18

#### **EM&A Monitoring – Ecology**

Statistics of Exceedance from Sep 2024 to Apr 2025



- 1. Exceedances as recorded in the reporting period were mainly due to seasonal variation.
- 2. The implementation of environmental mitigation measures by Contractor was in general satisfactory and no deficiencies in practices were observed.

# **Complaint Received**

Month	Air	Noise	Water	Others (Waste, Ecology, Landscape and Visual)
Sep-2024	0	1	0	0
Oct-2024	1	0	1	0
Nov-2024	1	2	0	0
Dec-2024	1	2	0	0
Jan-2025	1	0	0	0
Feb-2025	1	3	0	0
Mar-2025	0	0	1	0
Apr-2025	0	0	0	0
Nature of Complaints	<ul> <li>Construction sites at Ngau         Au and YHKCC</li> <li>Construction site near North         Lantau Hospital</li> <li>Construction dust from the         junction point between Yu         Tung Road and Chung Mun         Road</li> </ul>	<ul> <li>Chung Yan Road construction site</li> <li>Site Office of TCW</li> <li>Construction site at Ngau Au</li> </ul>	<ul> <li>Suspected discharge from construction site near North Lantau Hospital</li> <li>Suspected discharge from site office of TCW</li> </ul>	

