

# Tung Chung New Town Extension



2<sup>nd</sup> PLG Meeting  
Date : 10 June 2019



Civil Engineering and  
Development Department

# Agenda



1. Confirmation of Last Meeting Minutes & Matters Arising from Last Meeting
2. Latest Progress of Reclamation Contract
3. Report of Environmental Monitoring and Audit
4. Discussion of Real Time Tracking and Monitoring System for Dump Trucks
5. AOB

# 1. Confirmation of Last Meeting Minutes

# Matters Arising from Last Meeting

Para. 4.1(1)(d):

Benchmark for the action and limit levels of ecological monitoring

- *To analyze the ecological data to review the criteria of action and limit levels.*

Para. 4.1(1)(g):

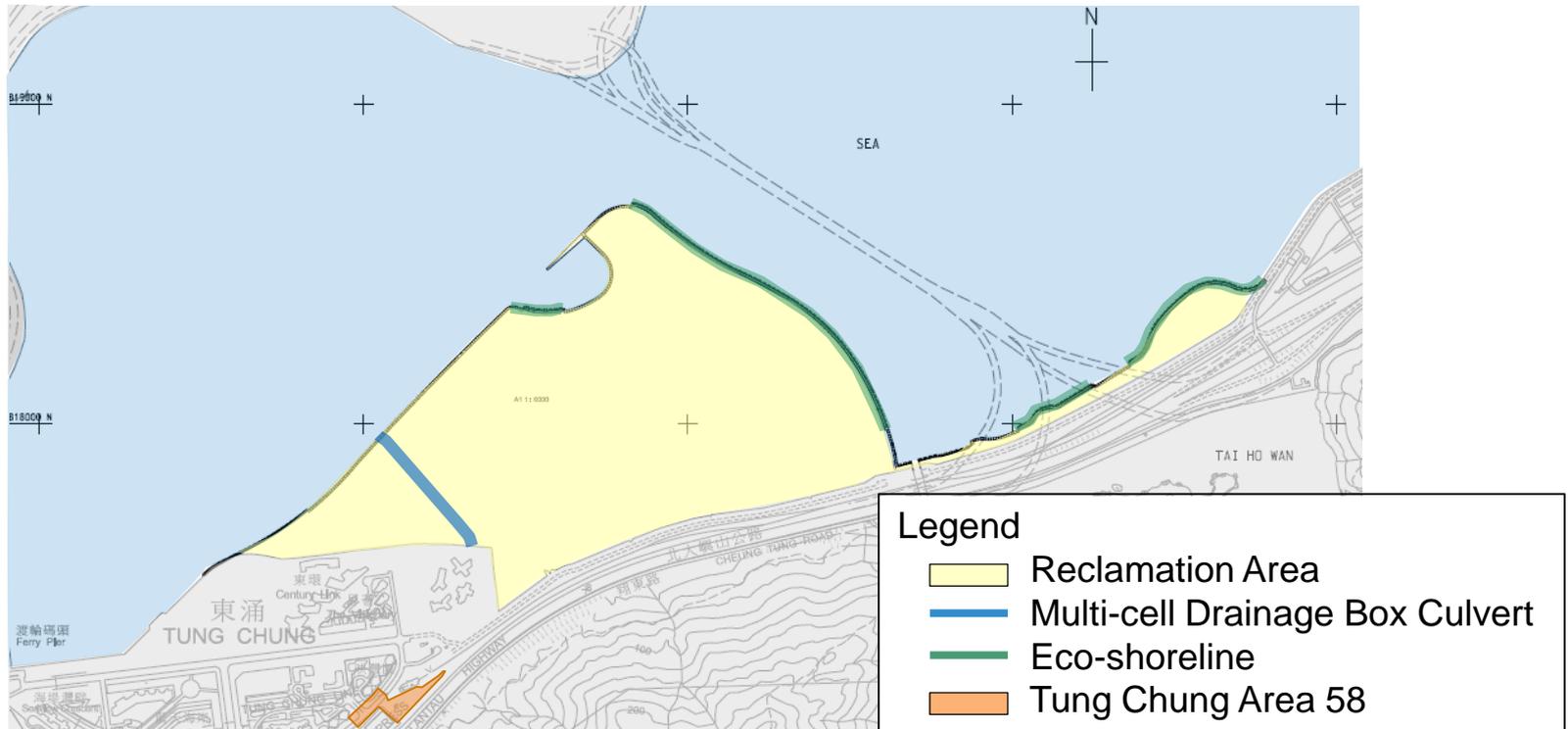
Monitoring of seagrass beds at San Tau

- *To consider any additional benefit on the ecological monitoring at San Tau for the project.*

## **2. Latest Progress of Reclamation Contract**

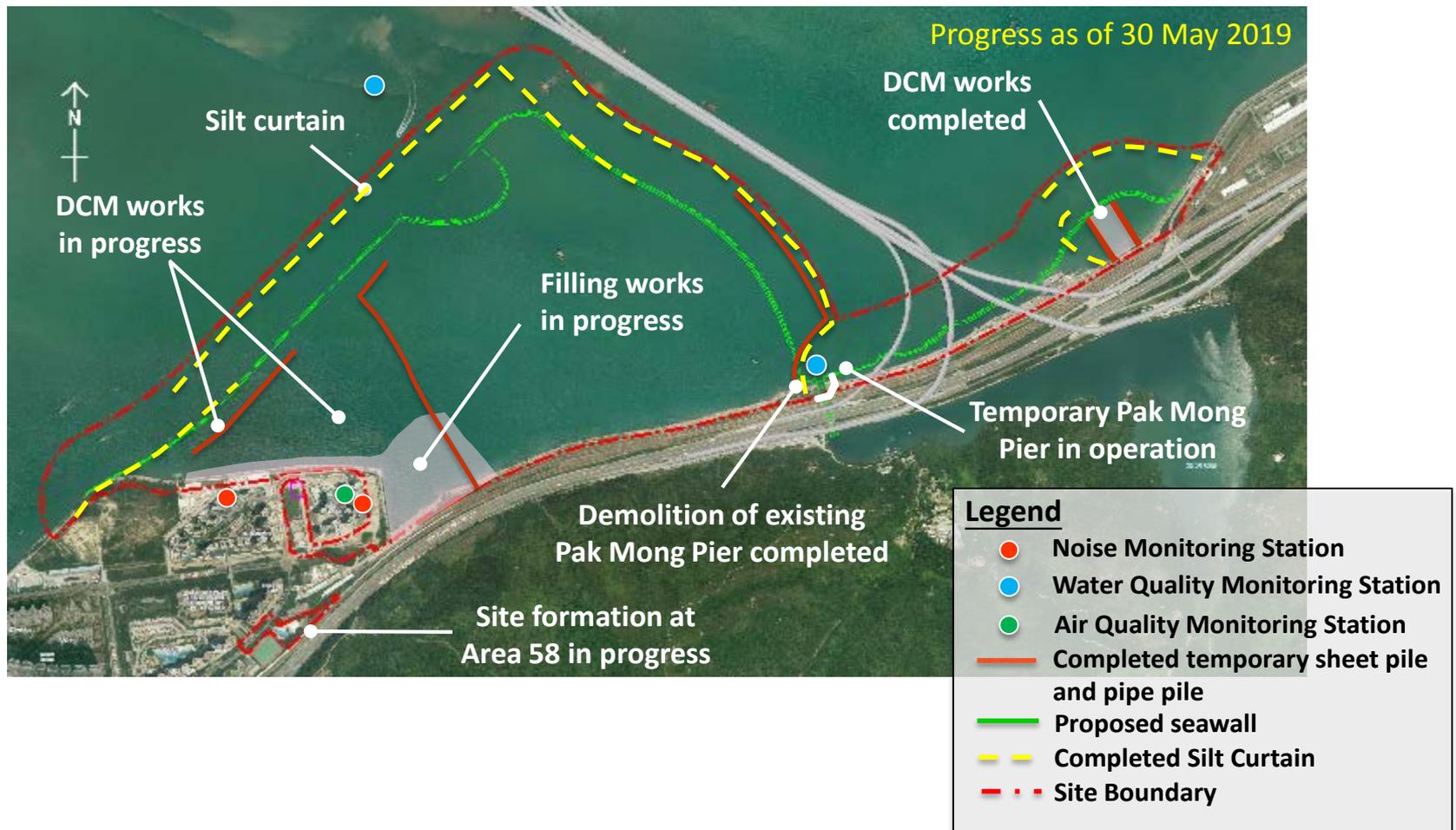
**Contract No. NL/2017/03  
Tung Chung New Town Extension -  
Reclamation and Advance Works**

# Contract NL/2017/03 Overview

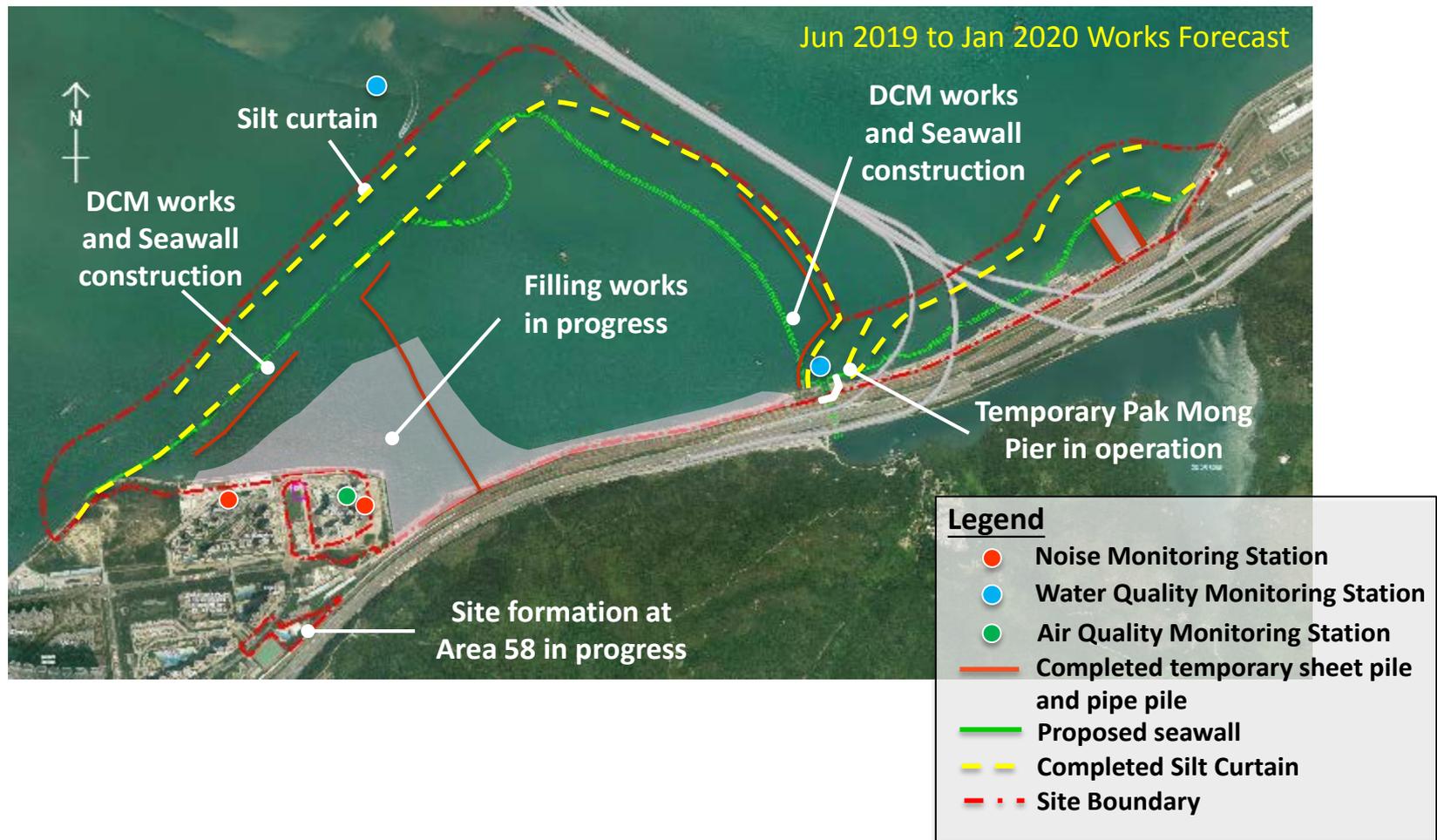


- ① 130 hectares land reclamation by non-dredged method
- ② Construction of 4.9 km seawalls partly with eco-shorelines
- ③ Construction of 470m extension of multi-cell drainage box culvert
- ④ Site formation for future development in Tung Chung Area 58

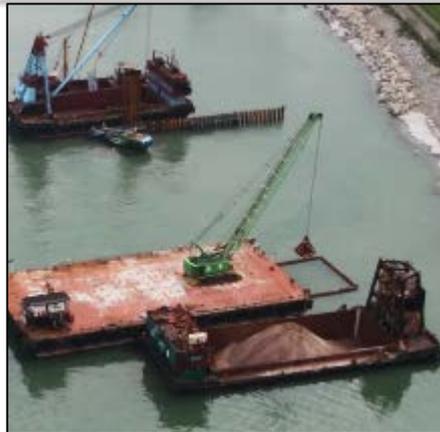
# Current Project Progress



# Next Six Months Works Forecast



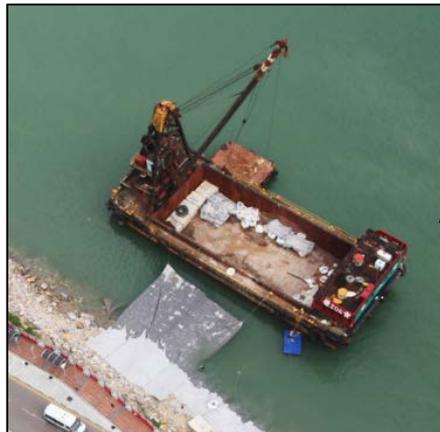
# Non-dredged Reclamation



Placing sand blanket which acts as drainage layer



Placing public fill for the reclamation

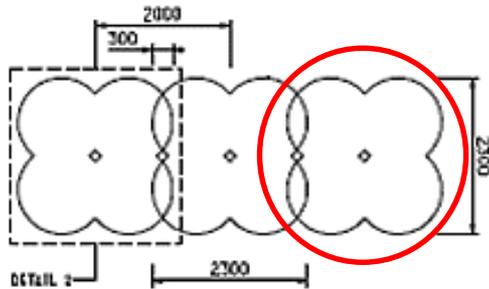
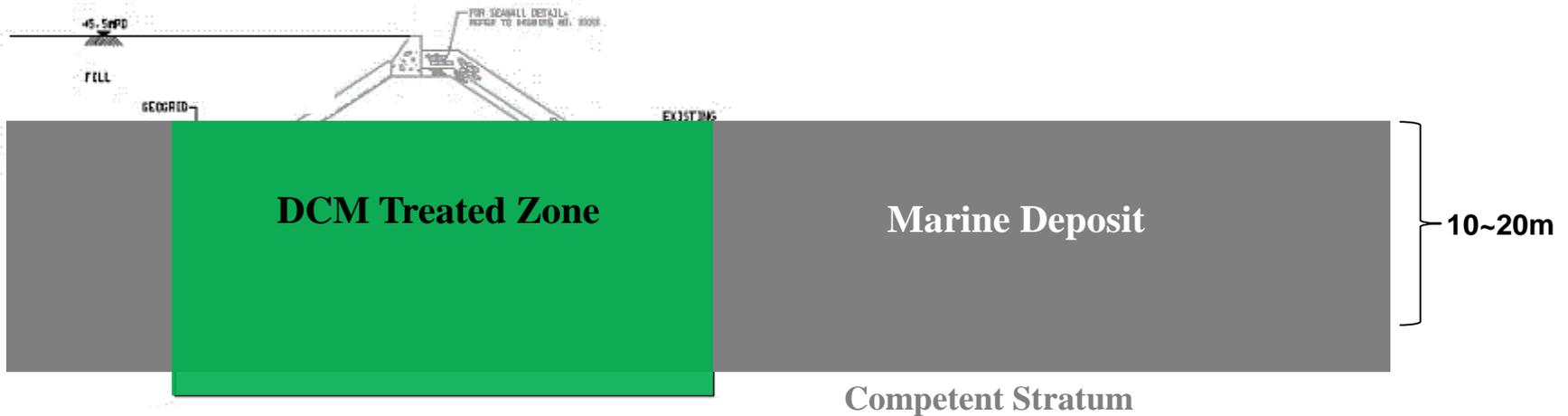


Laying geotextile for seabed protection

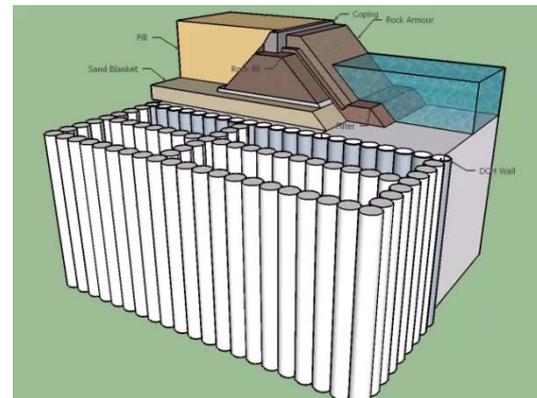
Installing prefabricated vertical drains to drain pore water away



# DCM under Seawall



Overlapped DCM Clusters



# Newsletter Issues



**第三期通訊**  
NEWSLETTER ISSUE NO.3

2019-02

歡迎參閱第三期東涌新市鎮擴展—填海及前期工程(NL/2017/03)通訊。本通訊將介紹本工程用作填海的公眾填料並提供工程的進度及相關資訊。  
今期出版的通訊適逢春節，我們謹祝大家新春快樂，身體健康！

### 公眾填料—循環再用的拆建物料 Public Fill - Re-use of C&D Materials

東涌新市鎮擴展—填海及前期工程非常注重環境保護。除了採用更為環保的非浚挖式填海技術及深層水泥拌合法外，本工程更會循環再用從本工程或其他工程產生的惰性建築物料(例如挖掘所得的物料)作為填海物料，使香港得以持續發展，亦有助減低使用公眾填料庫的壓力，為環保出一分力。此外，本工程會使用趸船由將軍澳及/或屯門填料庫運送公眾填料至東涌工地作填海之用。



將軍澳填料庫  
Fill bank at Seung Kwan O



使用趸船運送公眾填料  
Transportation of public fill by barge



**甚麼是公眾填料** What is public fill?  
因建造、挖掘及拆卸等工程而產生剩餘物料，當中約九成為可再用或可循環再造的惰性物料，統稱為公眾填料。因公眾填料是由岩石、混凝土、瀝青、瓦礫、磚塊、碎石及泥土等組成，故適宜用於填海或工地平整工程。  
For the construction and demolition materials generated from construction, excavation and demolition works, about 90% of them are reusable or recyclable inert materials, which are commonly known as public fill. Comprising of rocks, concrete, asphalt, rubbles, bricks, stones and earth, public fill is suitable for reuse in reclamation and site formation works.



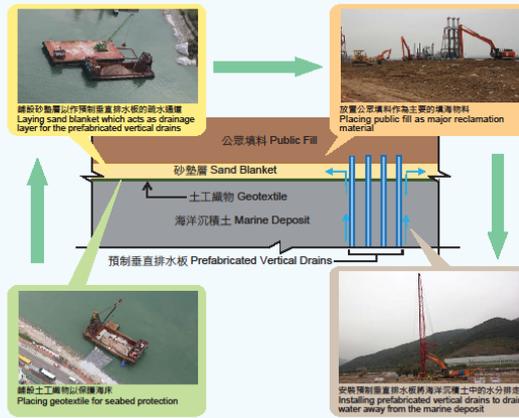
**第四期通訊**  
NEWSLETTER ISSUE NO.4

2019-05

歡迎參閱第四期東涌新市鎮擴展—填海及前期工程通訊。本通訊將介紹非浚挖式填海流程並提供工程進度及相關資訊。

### 非浚挖式填海流程 Workflow of non-dredged reclamation

東涌新市鎮擴展—填海及前期工程採用非浚挖方法，進行填海工程。面對複雜的施工環境，承建商應以合適的填海技術及程序，以克服不同的挑戰。



To take note of construction progress

# 3. Report of Environmental Monitoring and Audit

# Dedicated Website under EP-519/2016



Website: <http://env.tcnte.hk/index.html>



## Tung Chung New Town Extension

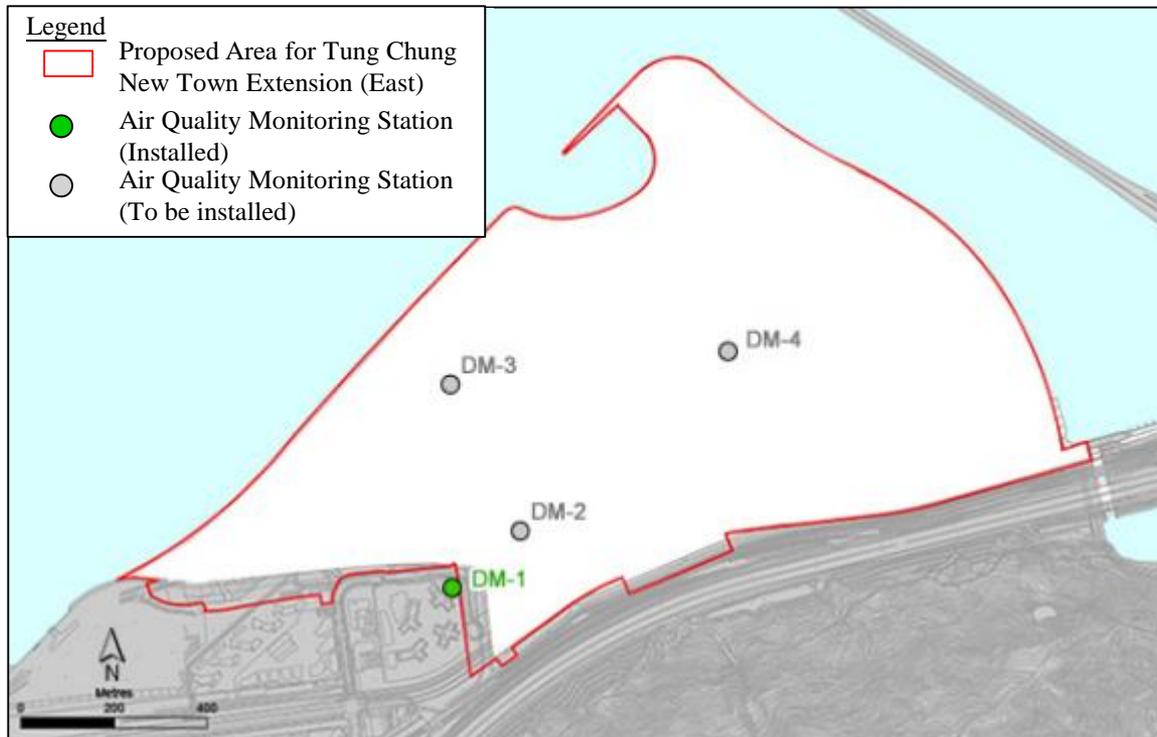
This dedicated website is set up in accordance with the requirements in the Environmental Permit (EP) (EP NO. EP-519/2016) to enable user-friendly public access of information of the Tung Chung New Town Extension and the associated environmental monitoring data.

# EM&A Monitoring – Air Quality



## Air Quality Monitoring

**Frequency** Three times every six days  
**Monitoring Parameter** 1-hour Total Suspended Particulate



**Monitoring Results between  
Dec 2018 and May 2019**

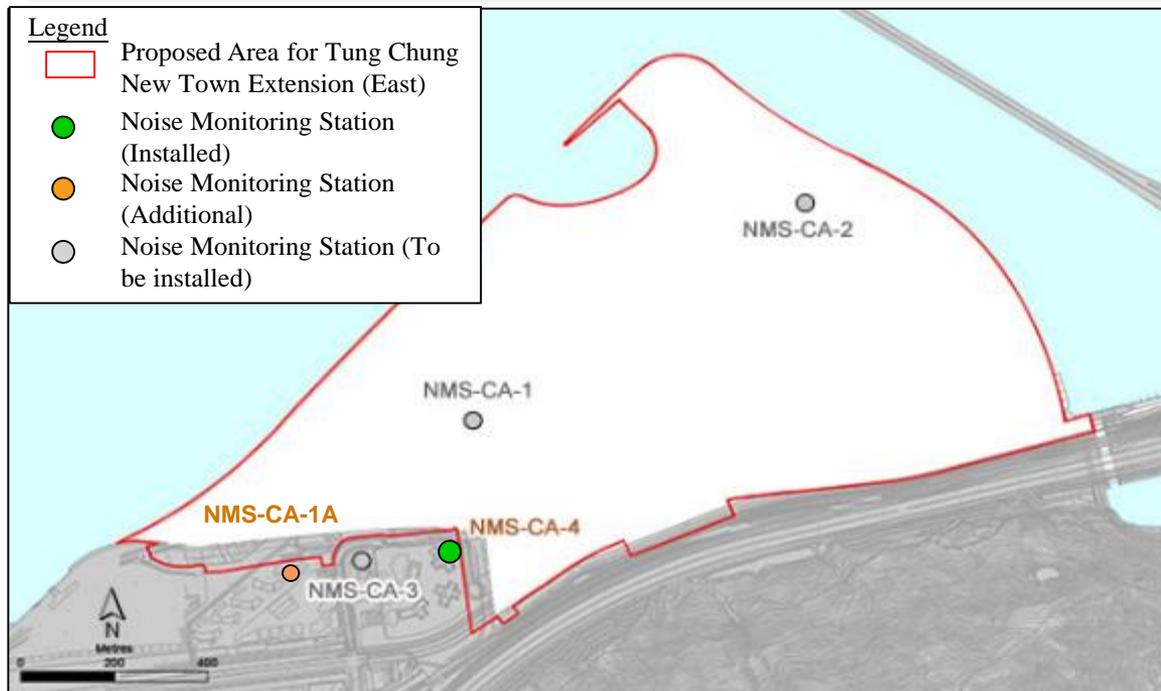
No project-related  
exceedance was recorded.

# EM&A Monitoring – Noise



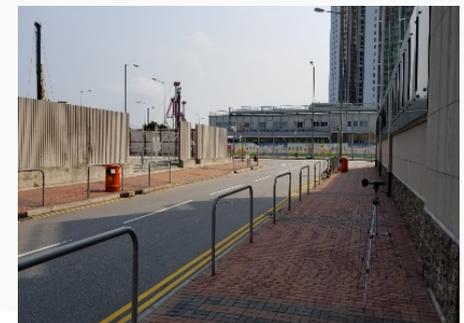
## Noise Monitoring

**Frequency** Once per week  
**Monitoring Parameter**  $L_{eq}$  (30mins)



## Monitoring Results between Dec 2018 and May 2019

- Results of noise monitoring indicated that noise levels were within acceptable level.
- The ET conducted investigations on the noise-related complaints and recommended Contractor to implement appropriate mitigation measures to reduce noise nuisance to nearby residential areas.



# EM&A Monitoring – Water Quality



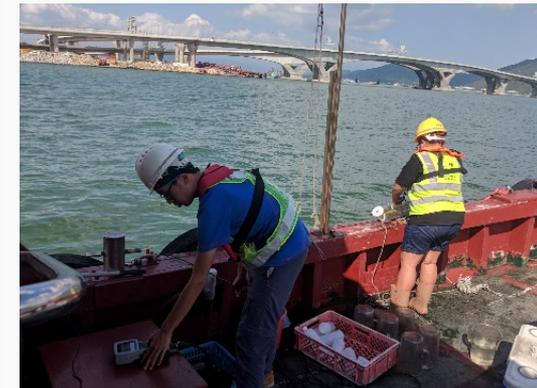
## Water Quality Monitoring

**Frequency** 3 times per week, at mid-flood & mid-ebb tides  
**Monitoring Parameter** Dissolved Oxygen, pH Value, Salinity, Turbidity, Suspended Solids, Temperature



## Monitoring Results between Dec 2018 and May 2019

No project-related exceedance was recorded.

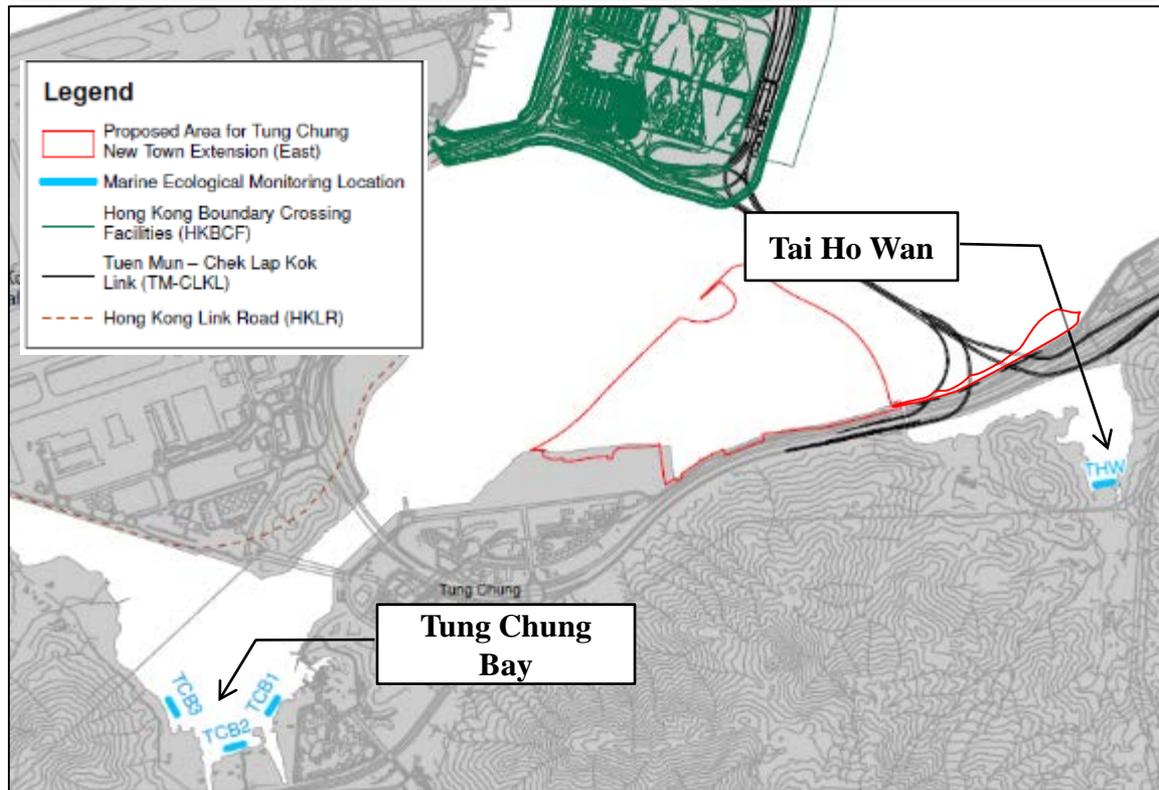


# EM&A Monitoring – Ecology



## Ecological Monitoring

<b>Frequency</b>	Quarterly
<b>Monitoring Parameter</b>	Horseshoe Crabs, Seagrass, Intertidal Soft Shore Communities

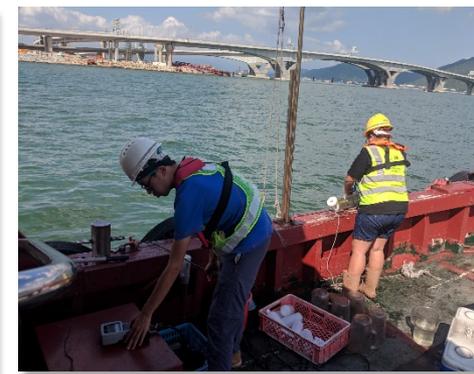
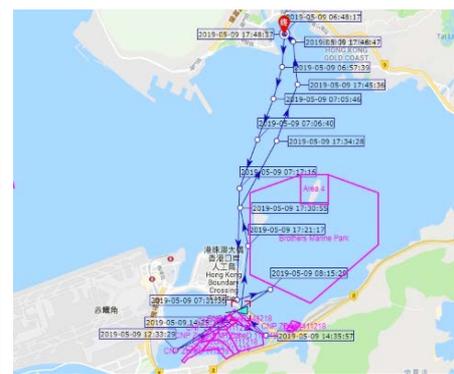


## Monitoring Results between Dec 2018 and May 2019

Ecological monitoring was conducted in March 2019. Horseshoe crabs were found in both Tung Chung Bay and Tai Ho Wan.



# Protection and Mitigation Measures on Construction Activities

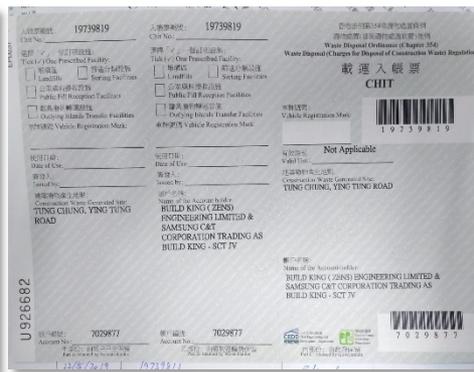


Installation of perimeter silt curtain

Dump truck monitoring system

Speed control of works vessels

Independent water quality monitoring



Noise monitoring

Water spraying for dust control

Covered stockpile with tarpaulin sheet

Trip ticket system

# Additional mitigation measures implemented

- Mechanical equipment of DCM barges were covered with acoustic mats
- Mechanical equipment of DCM barges were oriented away from the nearby NSRs
- Additional noise monitoring conducted at nearby residential buildings



Acoustic mat on auger



Acoustic mat for power generator



Noise monitoring at 19/F of Ying Chui House

## 4. Discussion of Real Time Tracking and Monitoring System for Dump Trucks

# Real Time Tracking and Monitoring system (RTTM)



First public works project specified RTTM system for dump trucks under the EIA Ordinance.

The purpose:

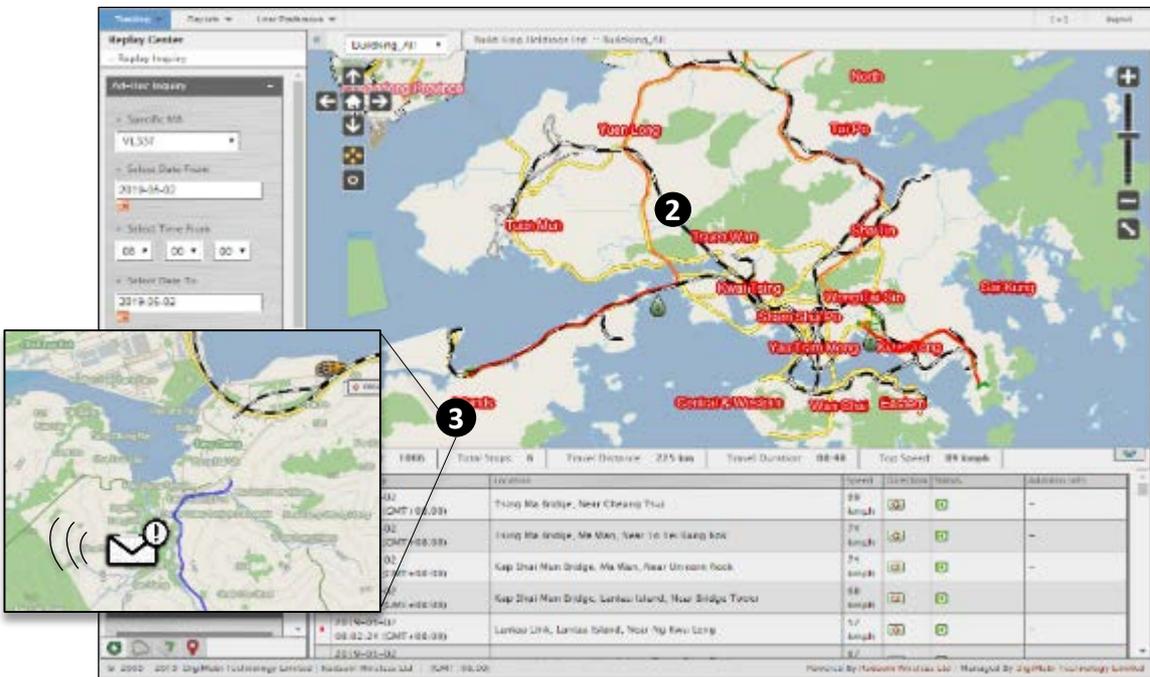
- prohibit illegal dumping and landfilling of C&D materials

Implementation status:

- All dump trucks engaged on site are equipped with **Global Positioning System (GPS)** for tracking and monitoring their travel routings and parking locations

# Real Time Tracking and Monitoring system

## Operation of RTTM system



**1**

Dump trucks are installed with a registered GPS which allow the GPS signal to be transmitted to the control center.

**2**

Date, time and travel route are recorded which allow round-the-clock monitoring of the routing of dump trucks.

**3**

“Tung Chung Road” is designated as a restricted area under this Project. If the dump truck entered the restricted area, an automatic E-mail notification will be generated immediately to relevant parties.

# Real Time Tracking and Monitoring system

## Surveillance



Environmental  
Team

- ✓ Check the deployed dump trucks against the daily list
- ✓ Track the time and routing of dump trucks
- ✓ Check the disposal records under the Trip Ticket System
- ✓ Investigate each suspicious track of illegal dumping / entrance to the restricted area

## Discussion



- Any questions or queries on the current real time tracking and monitoring system?
- Possible enhancement on the current real time tracking and monitoring system?

## 5. AOB

**Thank you**