

Agenda



- 1. Welcome Speech and Introduction
- 2. Membership and Terms of Reference
- 3. Brief on TCNTE Project
- 4. Reclamation Contract Overview and Progress
- 5. Report of Environmental Monitoring and Audit (EM&A)
- 6. Discussion of Complaint Handling
- 7. AOB and Date of Next Meeting



1. Welcome Speech and Introduction

Community Engagement





Construction Site Zero Accident



Removal of Tree Branches after Typhoon



Bronze Award of CIC Sustainable Construction Award



Mid-autumn Festival with the Elderly



2. Membership and Terms of Reference

Membership



Chairman: Deputy Head of SLO, CEDD, or his/her delegate

Secretary: Senior Engineer of SLO, CEDD

Members:

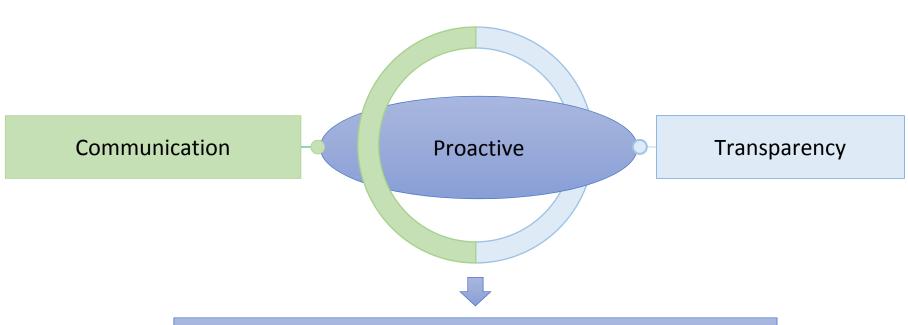
- Ir. Thomas CT CHAN, Honorary Treasurer, Environmental Division, HKIE
- Professor Kenneth MY LEUNG, School of Biological Sciences, HKU
- Dr. Simon WONG, Ocean Park Conservation Foundation Hong Kong
- Dr. Cynthia YAU, Division of Life Science, HKUST
- Professor Quentin Zhong Qi YUE, Department of Civil Engineering, HKU
- Project team of SLO, CEDD
- Environmental Teams of TCNTE project
- Independent Environmental Checker of TCNTE project

Introduction



Specific Condition 2.1 under EP 519/2016

Setting up of Community and Professional Liaison Groups (CPLG)



- Disseminate information
- Promote community cooperation and participation
- Implement suitable local environmental enhancement works

Term of Reference



To advise/facilitate Civil Engineering and Development Department (CEDD) on enhancing transparency and communication with relevant professional/experts, as well as enquiries on all environmental issues related to the Tung Chung New Town Extension project.

向土木工程拓展署提供意見及幫助以提升東涌新市鎮擴展工程項目的透明度,並加強與相關專業人員/專家的溝通,以及處理有關環境問題的查詢。

 To advise/facilitate CEDD on promoting community cooperation and participation and implementation of suitable local environmental enhancement works in the relevant Environmental Permit.

向土木工程拓展署提供意見及幫助以促進社區合作和參與,並按照相關環境許可證所載進行適當的地區環境改善工程。



3. Brief on TCNTE project

Brief on TCNTE Project



Existing population capacity: 124,000

Involve development of about 245 ha.

Land Formed by reclamation:

130 ha

Population:

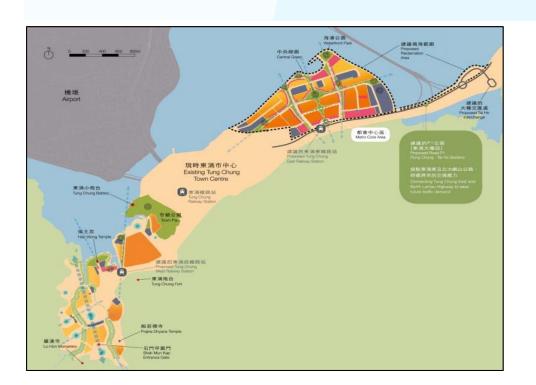
+ 145,500

Job opportunities:

+ 40,000

Residential flats:

+ 49,600



Total population of about **269,500** upon full extension.

Provide about **877,000 m²** GFA for office, retail and hotel uses.

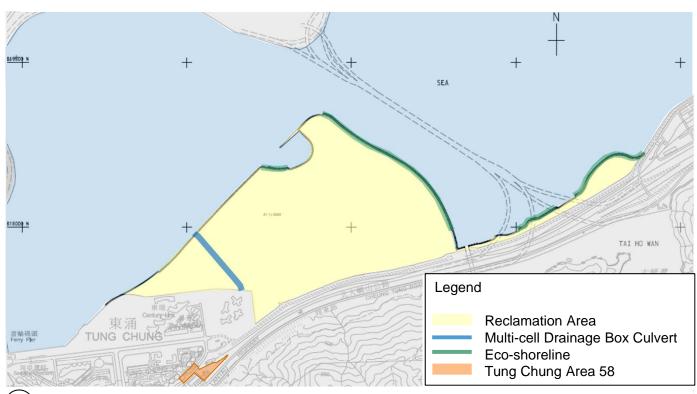


4. Reclamation Contract Overview and Progress

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

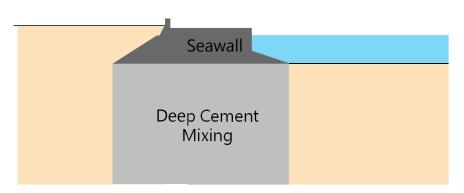
Key Environmental Design

- a) Non-Dredging Method:Deep Cement Mixing (DCM)
- b) Eco Shoreline
- c) GPS/AIS System
- d) Reuse of Glass Cullet



Key Features

- Stabilisation of Ground
- No Dredging Works
- No Disposal of Marine Mud



Typical Section of Seawall and DCM



DCM Barge for Marine DCM Installation

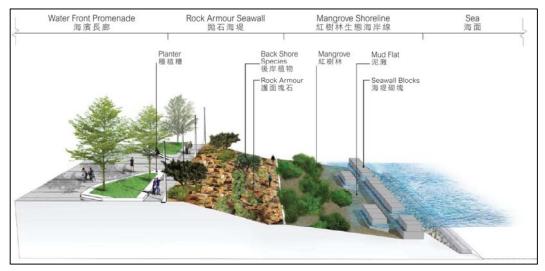
Key Environmental Design



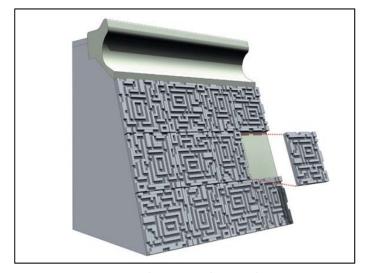
- a) Non-Dredging Method: Deep Cement Mixing (DCM)
- b) Eco Shoreline
- c) GPS/AIS System
- d) Reuse of Glass Cullet

Key Features

- Increase biodiversity
- Natural environment integrating into the community



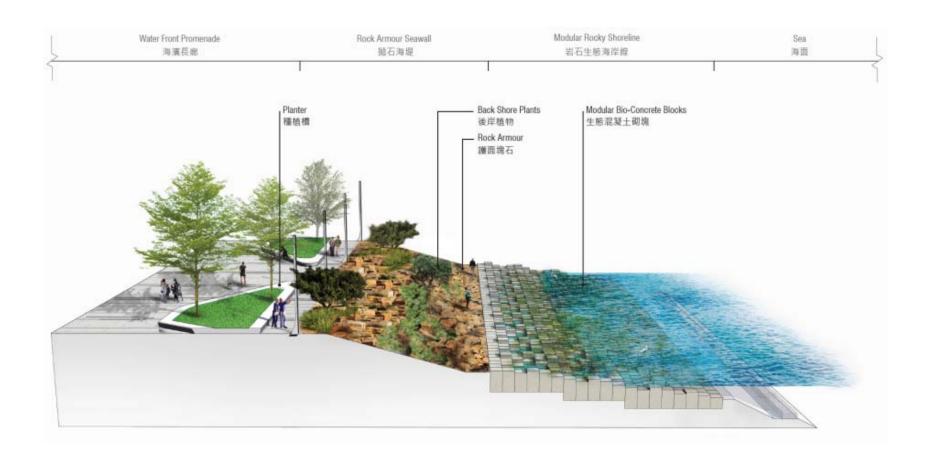
Typical Section for Eco Shoreline



Vertical Eco shoreline

Rocky Eco Shoreline





Key Environmental Design

- a) Non-Dredging Method: Deep Cement Mixing (DCM)
- b) Eco Shoreline
- c) GPS/AIS System
- d) Reuse of Glass Cullet



All dump trucks equipped with GPS system



Key Features

- Real-time Monitoring (RSS, ET, IEC, Contractor)
- Prevent Illegal Dumping



Setting-up of Restricted Area (Tung Chung Road)

Key Environmental Design



- a) Non-Dredging Method: Deep Cement Mixing (DCM)
- b) Eco Shoreline
- c) GPS/AIS System
- d) Reuse of Glass Cullet

Key Features

- Sand Substitute for Reclamation
- Turn Waste into Valuable Resource
- Reduce Waste and Alleviate the Pressure on Landfill



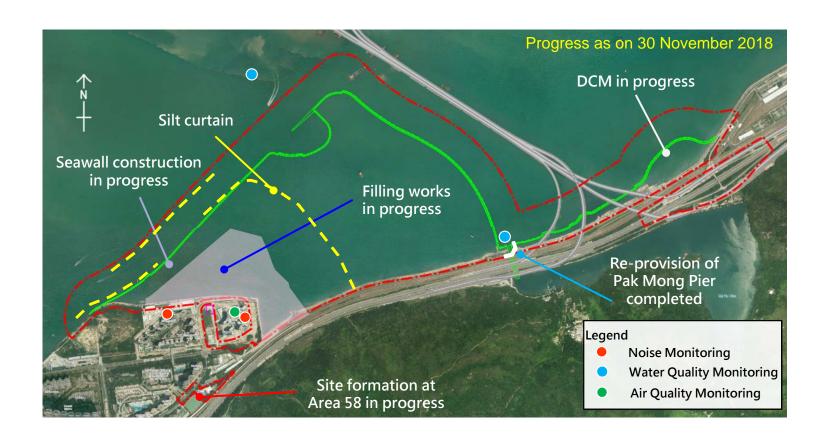




Pulverized Glass Cullet

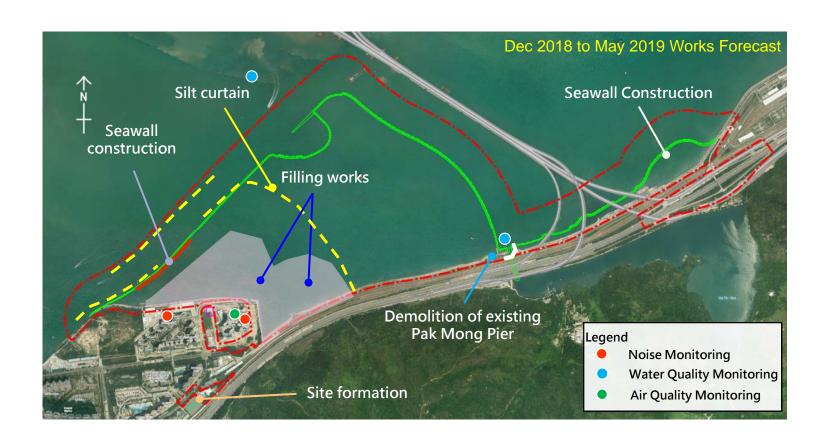
Current Project Progress





Next Six Months Works Forecast





Newsletter Issues







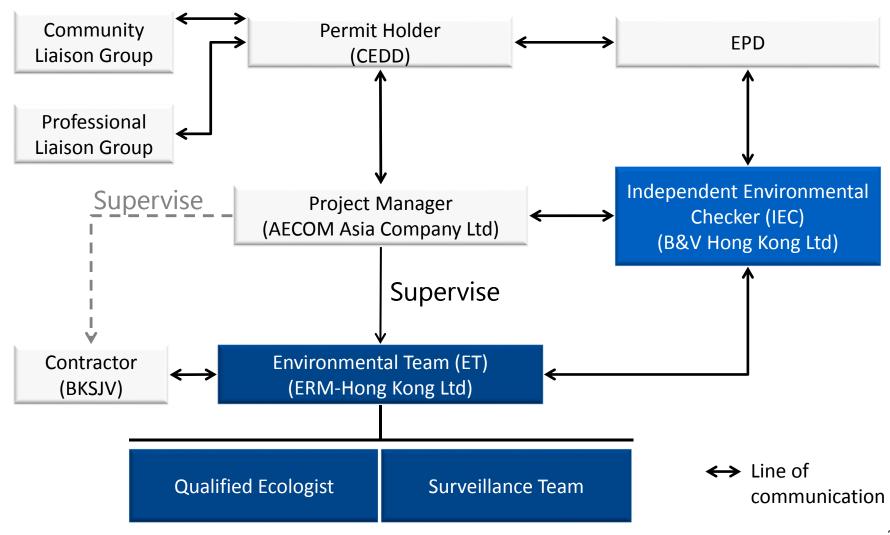
To take note of construction progress



5. Report of Environmental Monitoring and Audit (EM&A)

EM&A Management Organization





ET and IEC



Roles and Duties of ET and IEC include -

Environmental Team (ET)

- Certify the environmental acceptability of construction works
- Audit the Contractor's site practice and work methodologies
- Pre-empt environmental problems pro-actively
- Qualified Ecologist as part of the ET to carry out work relating to ecological aspects
- Surveillance Team as part of the ET to conduct site inspection on suspected illegal dumping and filling of C&D materials

Independent Environmental Checker (IEC)

- Audit the overall EM&A performance
- Verify the environmental acceptability of construction works
- Offer objective and professional advice on environmental issues, when requested

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.

Major Components of EM&A



Submissions under Environmental Permit

Environmental submissions to be made before or during the construction including:



• Works Vessel Travel Route Plan



• Silt Curtain Deployment Plan



• Spill Response Plan



Dolphin Watching Plan



• Waste Management Plan



• Complaint Management Plan

Environmental Monitoring and Audit

Environmental parameters are monitored through systematic procedures:



• Air Quality Monitoring



Noise Monitoring



• Water Quality Monitoring



 Ecological Monitoring (Soft Shore Ecology)



Regular Site Inspection

Mitigation Measures





Works Vessel Travel Route Plan

Mitigation Measures

- Restriction on vessel trips
- Restriction on vessel speed
- Restriction on travel route (e.g. Tung Chung Buoyed Channel)
- Real-time tracking of works vessels



Silt Curtain Deployment Plan

- Installation of silt curtain
- Inspection of silt curtain before commencement of daily works
- Collection of floating refuse at regular intervals



Spill Response Plan

- Provision of drip trays for chemical containers
- Provision of spill kits on site
- Designated location for chemical waste storage
- Regular toolbox trainings and chemical spill drills

Mitigation Measures





Dolphin Watching Plan

Mitigation Measures

- Implementation of dolphin exclusion zone
- Regular inspection of silt curtains
- Regular refresher training to dolphin watchers



Waste Management Plan

- Reuse of C&D materials
- Implementation of trip ticket system
- Real time tracking and monitoring (RTTM) system of dump truck's travel routings and parking locations



Complaint Management Plan

- Set up of a dedicated complaint hotline (9862 2910)
- Set up of a dedicated complaint email (nl201703.info@gmail.com)

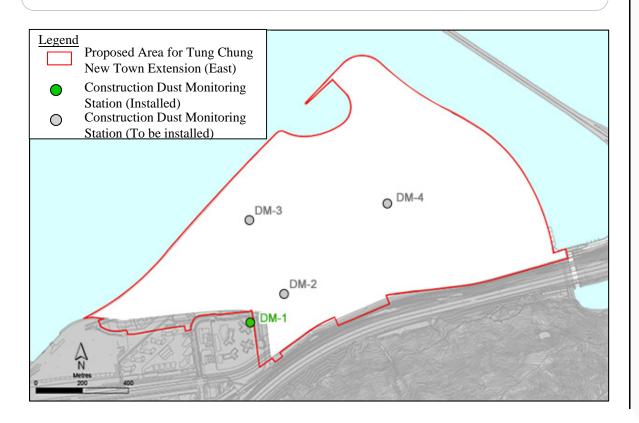
EM&A Monitoring – Air Quality



Air Quality Monitoring

Frequency Three times every six days

Monitoring Parameter 1-hour Total Suspended Particulate





Monitoring Results as on 30 Nov 2018

No project-related exceedance was recorded.



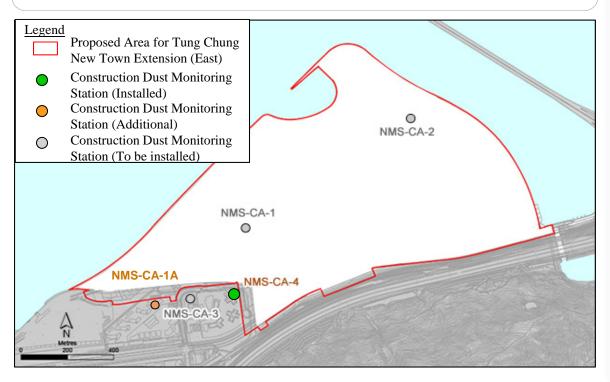
EM&A Monitoring – Noise



Noise Monitoring

Frequency Once per week

Monitoring Parameter L_{eq (30mins)}





Monitoring Results as on 30 Nov 2018

- 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.

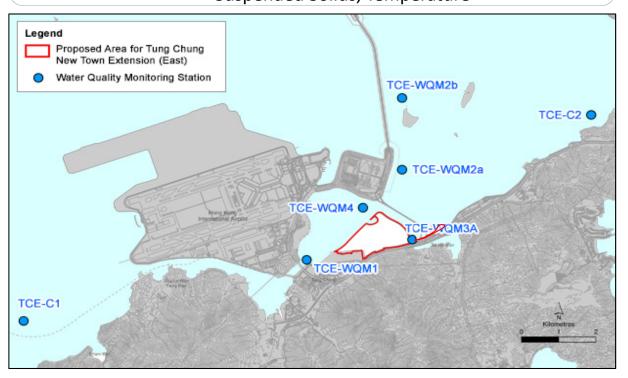


EM&A Monitoring – Water Quality



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 as on 30 Nov 2018

No project-related exceedance was recorded.

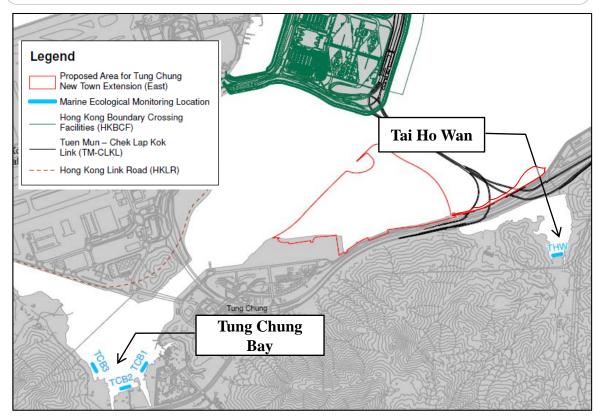


EM&A Monitoring – Ecology



Ecological Monitoring

Frequency Quarterly
Monitoring Parameter Horseshoe Crabs, Seagrass, Intertidal
Soft Shore Communities





Monitoring Results as on 30 Nov 2018

Ecological monitoring was conducted in September 2018. Horseshoe crabs were found in both Tung Chung Bay and Tai Ho Wan.







Site Inspection



Regular Site Inspection

Frequency
Inspection Criteria

Once per week and ac-hoc site inspection On-site mitigation measures for air quality, noise control, water quality and waste management





Stockpiles of aggregate covered by tarpaulin to prevent windblown dust.



Construction Noise Permit (CNP)



Quality Powered Mechanical Equipment (QPME)



Monitoring Results as on 30 Nov 2018

Immediate actions were taken to rectify the observations from the inspection team.

Site Inspection





Regular Site Inspection



Disorder. No. dec



Water sampling

Laboratory test

Perimeter silt curtain



GPS tracking on dump trucks



Waste separation bins



Drip trays for chemical storage

Site Inspection





Regular Site Inspection



Chemical spill drill



Available spill kits at the site



Real-time tracking of dump truck travel routings

Protection and Mitigation Measures on Construction Activities





Installation of perimeter silt curtain



Designated storage area for chemical waste



Water spraying for dust control



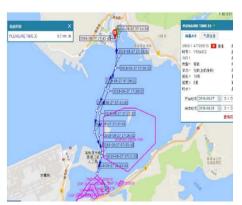
Set-up of cage type silt curtain



Covered stockpile with tarpaulin sheet



Independent water quality monitoring



Speed control of works vessels



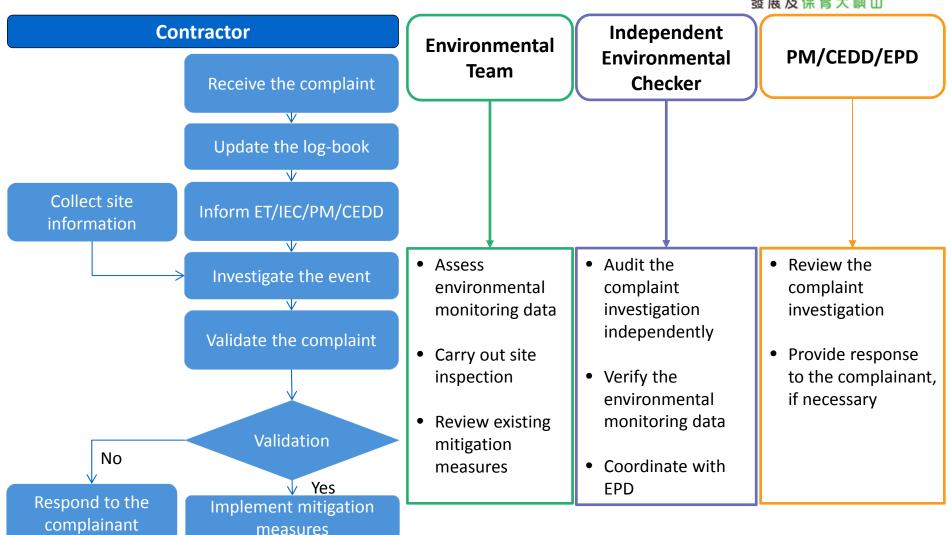
Dolphin watching



6. Discussion of Complaint Handling

Complaint Handling Flowchart





Complaint Handling Flowchart (cont'd)

complainant



發展及保育大嶼山 Independent **Contractor** PM/CEDD/EPD **Environmental Team Environmental** Checker • Review effectiveness of Review Implement mitigation effectiveness of the mitigation measures implemented mitigation Recommend additional • Verify the mitigation measures environmental Review environmental monitoring data monitoring data Review effectiveness of • Report to EPD, if Yes additional mitigation Exceedance? necessary Audit the • Review the detail No Prepare detail complaint handling investigation investigation report procedure report **Update EM&A** Verify the detail investigation report reports Response to the

Summary of Complaint Received



Period (July – November 2018)	Water Quality	Air Quality	Noise	Waste Management
Number	1	1	9	2
Project-related Prosecution	No	No	No	No

Noise Complaint Cases

9 complaints on construction noise nuisance since the commencement of the reclamation works

- Investigations were conducted for each environmental complaint
- Ad-hoc noise monitoring were conducted near CenturyLink and Ying Tung Estate.
- No limit level exceedance was recorded or noncompliance was found.

Action Taken:

- The Contractor was reminded to minimise construction noise levels near residential areas
- Additional noise monitoring points
- Protective noise barrier





Ad-hoc Noise Monitoring



Additional Noise Monitoring Point



Protective Noise Barrier

Discussion



Apart from the current complaint channels (such as dedicated complaint hotline, complaint email, Hotline "1823" or email/phone to EPD), any further channels should be established for the public to enquire the environmental issues?

Apart from the CLG/PLG and complaint channels, is there any suggestion for enhancing transparency and communication of the Project in the community?



7. AOB and Date of Next Meeting



Thank you