







Overview and Progress

Environmental Monitoring and Audit

Tung Chung West

11th PLG Meeting

Date: 22 October 2024

11th Professional Liaison Group Meeting – Agenda

Tung Chung West

- a) Matters Arising from Last Meeting Nil
- b) Overview and Progress
- c) Environmental Monitoring and Audit









Tung Chung West

b) Overview and Progress

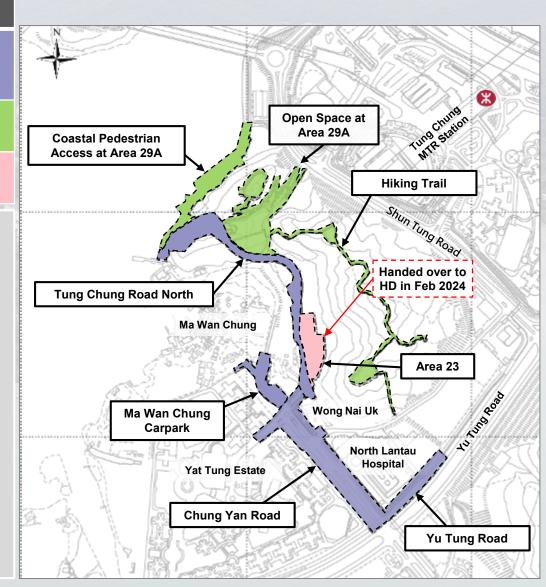
Contract No. NL/2020/05 - Site Formation & Infrastructure Works at Ma Wan Chung

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:-

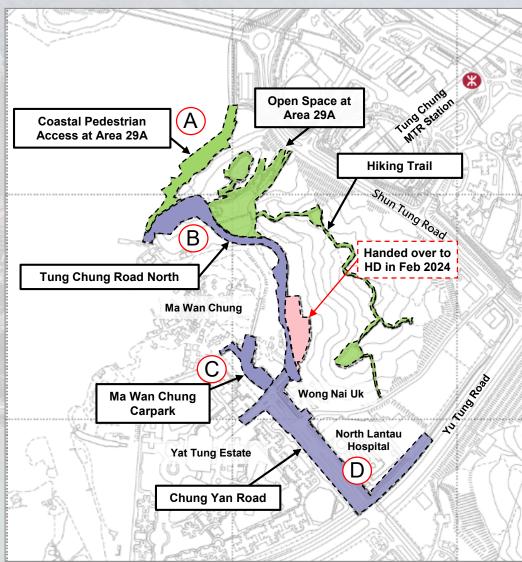
- Slope works at Tung Chung Road North
- Construction of underground utilities and road works at Ma Wan Chung Carpark, Yu Tung Road, Chung Yan Road & Tung Chung Road North
- · Construction of covered walkway at Chung Yan Road
- · Construction of retaining walls
- Upgrading works of existing hiking trail at Area 29A
- Construction of Coastal Pedestrian Access



Contract No. NL/2020/05 - Site Progress









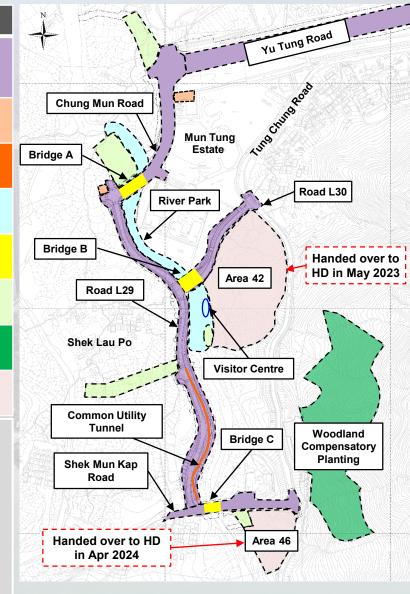


Contract No. NL/2020/06 - Site Formation and Infrastructure Works at Tung Chung Valley, Phase 1

Item	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	Common Utility Tunnel
5	River Park & Visitor Centre
6	Bridges across Tung Chung Stream
7	Sustainable Urban Drainage System
8	Woodland Compensatory Planting (Completed)
9	Site Formation at Area 42 & Area 46 (Completed and handed over to HD)

Contract Period : May 2021 to 2025 Major activities in coming three months :-

- Construction of underground utilities and road works at Yu Tung Road, Chung Mun Road, Road L29, Road L30 & Shek Mun Kap Road
- Construction of sewage pumping stations
- Construction of Common Utility Tunnel
- Construction of River Park and Visitor Centre
- Construction of bridges

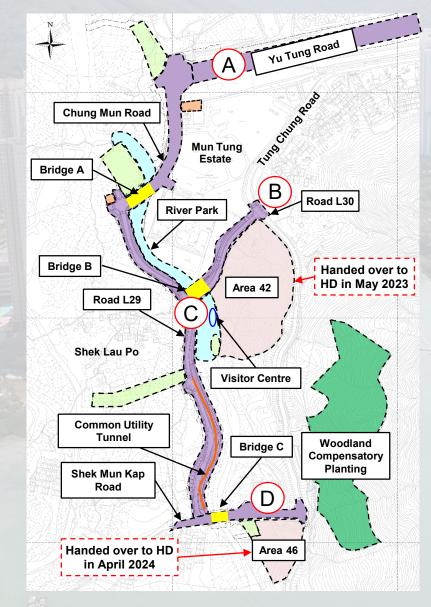




Contract No. NL/2020/06 - Site Progress



















Tung Chung West

c) Environmental Monitoring and Audit

Management Organisation



Major Components of EM&A for the Project in TCW

Environmental Submissions to be made before and during the construction including:

- Complaint Management Plan
- Waste Management Plan
- 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
- Detailed Compensatory Woodland Planting Plan
- Plan for Review of Use of New Low Noise Road Surfacing Material(s)

Environmental Monitoring during the construction stage:

- Air Quality Monitoring
- Noise Monitoring
- Stream Water Quality Monitoring
- Ecology Monitoring (Stream Water, Fish Species and Aquatic Invertebrates)
- Regular Site Inspection

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

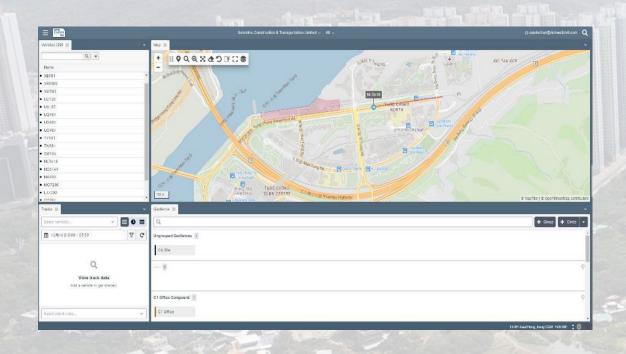


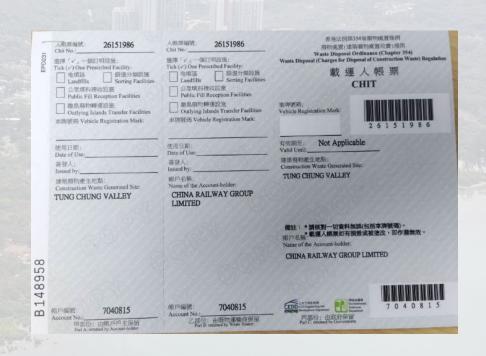
Concrete breaking by quieter method (Rock Splitter)



Wastewater treatment facility

Environmental Mitigation Measures for Construction Activities (Cont'd)





Realtime tracking on the travelling routes of dump trucks

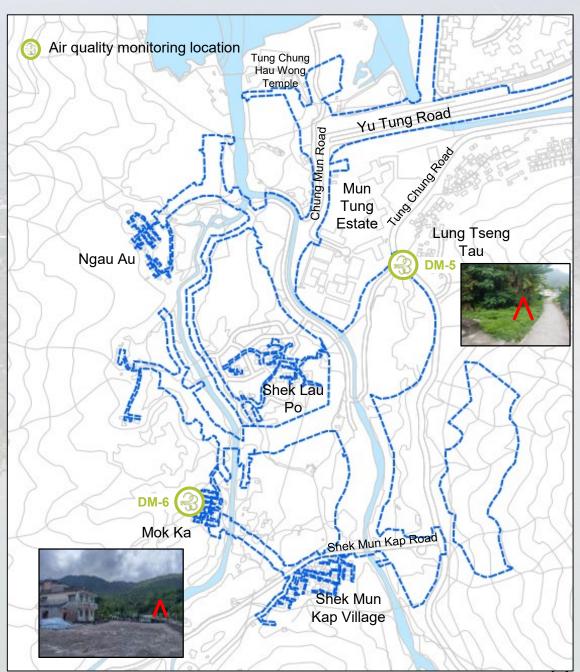
CHIT for waste disposal

EM&A Monitoring – Air Quality

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

Monitoring Results from Mar 2024 to Aug 2024

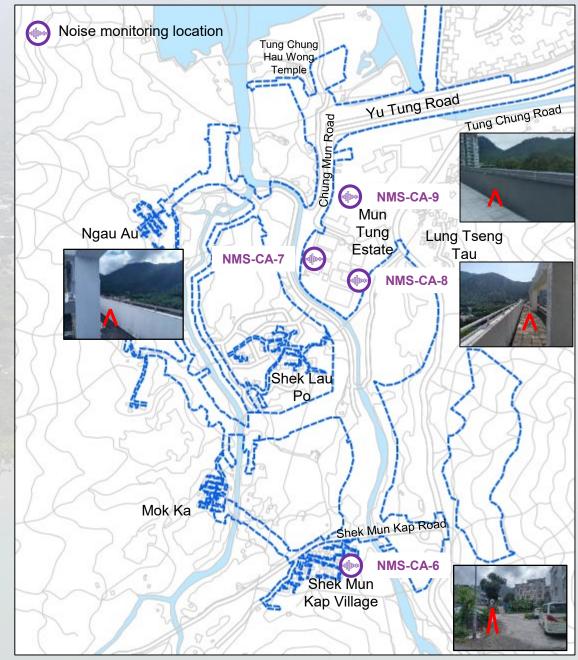
No exceedance was recorded



EM&A Monitoring – Noise

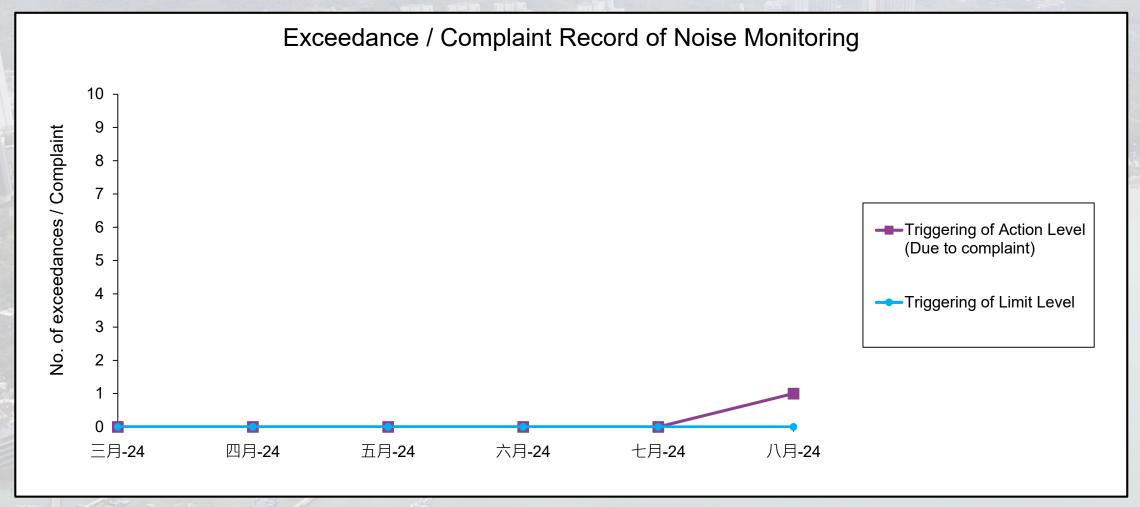
	ID	Description	Monitoring Parameter	Monitoring Frequency
	NMS-CA-5	Village house in Ma Wan Chung	A-weighted equivalent continuous sound	
	NMS-CA-6	Village house in Shek Mun Kap		
	NMS-CA-7	YMCA of Hong Kong Christian College		Once per week
1	NMS-CA-8	Caritas Charles Vath College (Roof Floor)	pressure level L _{eq}	
	NMS-CA-9	Hong Chi Shiu Pong Morninghope School (Roof Floor)		





EM&A Monitoring – Noise

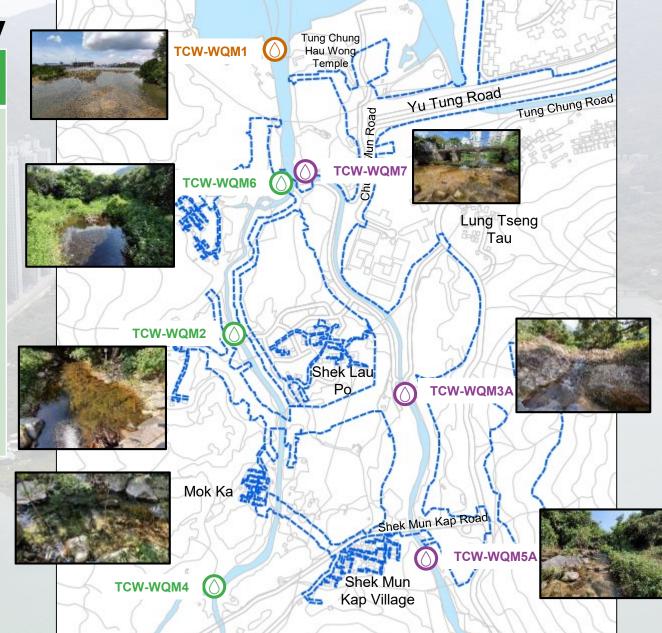
Statistics of Exceedance from Mar 2024 to Aug 2024



- 1. Exceedance as recorded in the reporting period was due to the receipt of noise complaint.
- No measurement exceedance in noise was recorded.
- 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

ID	Description	Monitoring Parameter	Monitoring Frequency
TCW-WQM-1	Downstream of Tung Chung Stream	Temperature	
TCW-WQM-2	Middle of Tung Chung Stream (West)		
TCW-WQM-3A	Middle of Tung Chung Stream (East) • Salinity • Conductivity • pH		
TCW-WQM-4	Upstream of Tung Chung Stream (West)	Dissolved Oxygen	3 days per week
TCW-WQM-5A	Upstream of Tung Chung Stream (East)	TurbiditySuspendedSolids	
TCW-WQM-6	Downstream of Tung Chung Stream (West)	Sullus	
TCW-WQM-7	Downstream of Tung Chung Stream (East)		



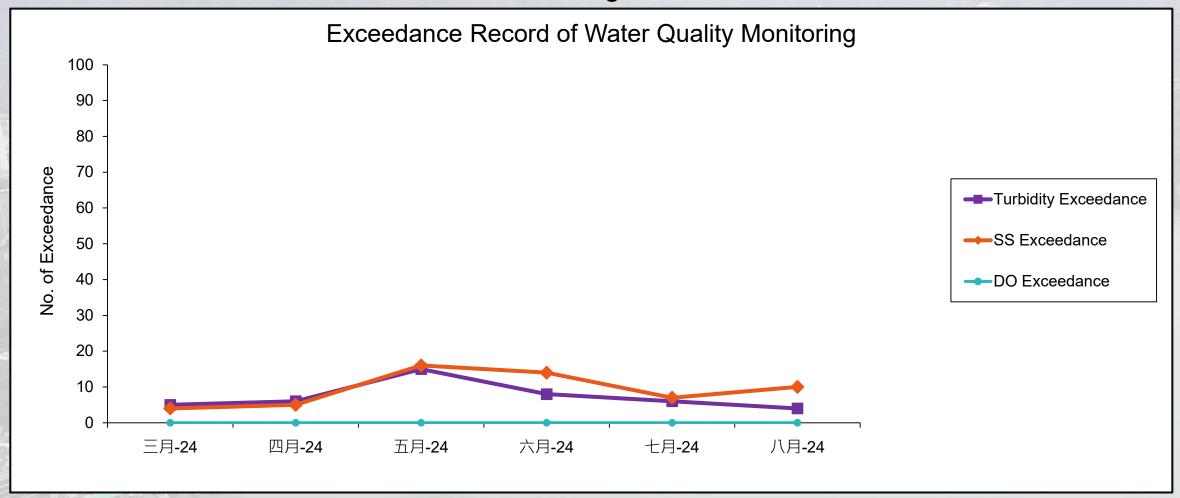


Stream water quality monitoring location (West Tributary)

Stream water quality monitoring location (East Tributary)

EM&A Monitoring – Water Quality

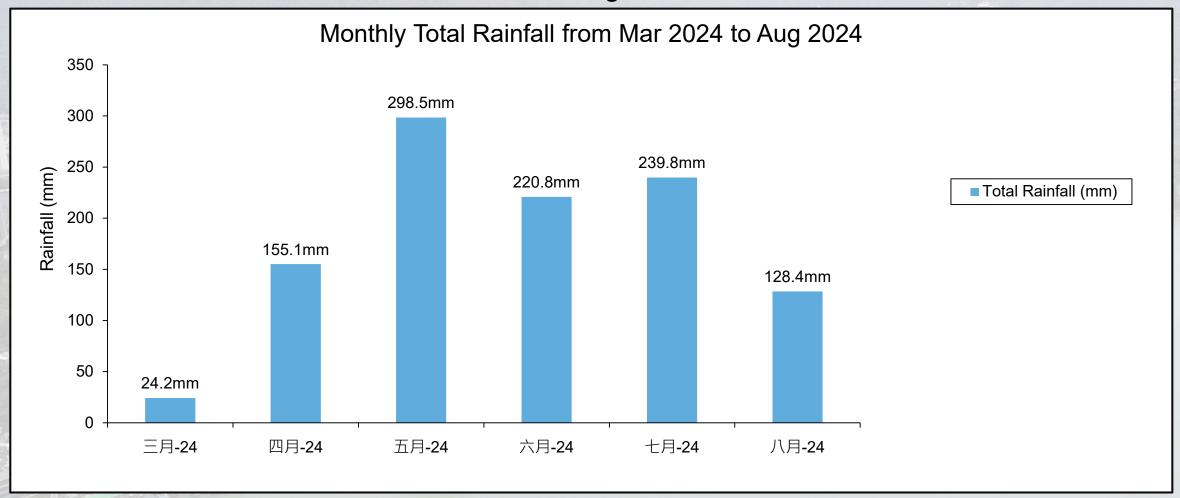
Statistics of Exceedance from Mar 2024 to Aug 2024



- 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 Mar 2024 to Aug 2024



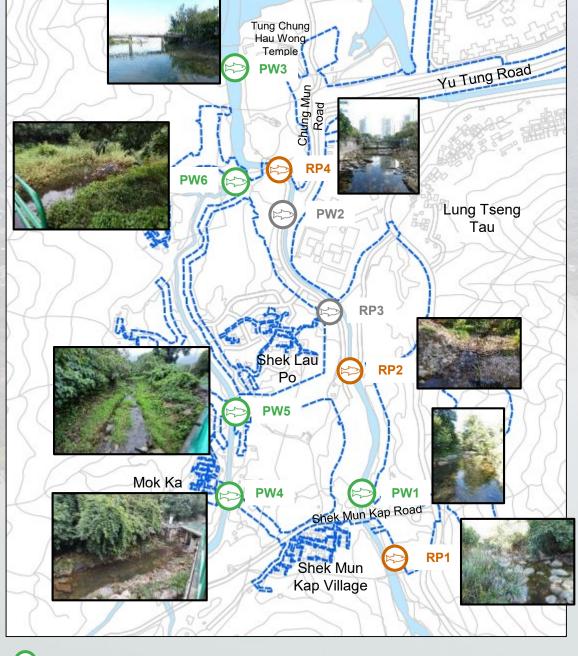
Note: Monthly rainfall data was extracted from the manned weather station located at Hong Kong International Airport by Hong Kong Observatory.

EM&A Monitoring – Ecology

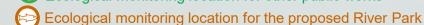
ID	Description	Monitoring Parameter	Monitoring Frequency
RP1	Conservation Zone (Natural Section)		
RP2	Upstream of River Park		
RP3	Revitalisation Zone (Channelised Section)		
RP4	Downstream of River Park		Once per month
PW1	Near Public Works	 Water Quality [Note] Taxa diversity of Fish 	
PW2	Near Public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

Notes:

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

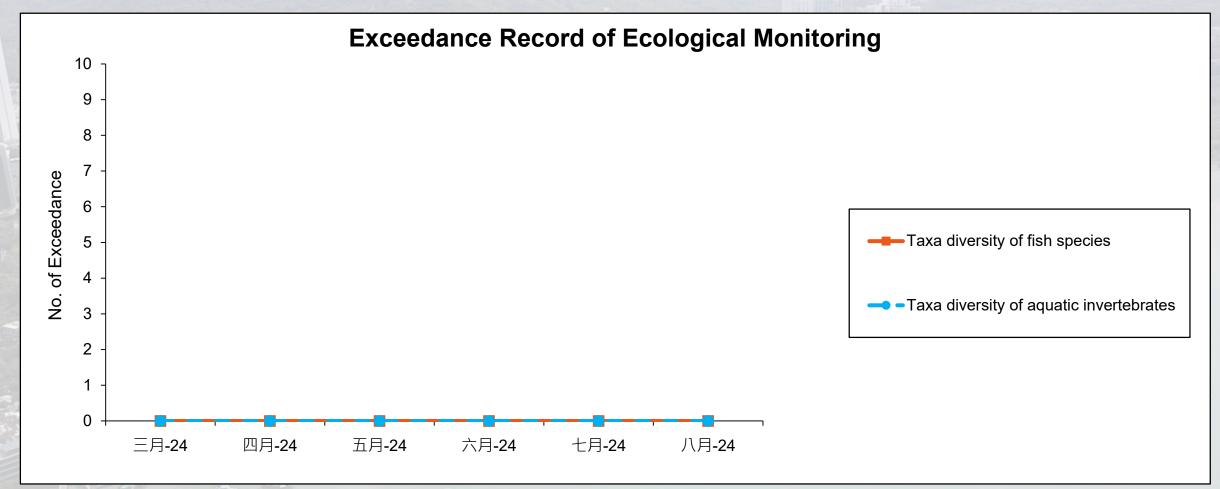


Ecological monitoring location for other public works



EM&A Monitoring – Ecology

Statistics of Exceedance from Mar 2024 to Aug 2024



No Exceedance

Complaint Received

Month	Air	Noise	Water	Others (Waste, Ecology, Landscape and Visual)
Mar-2024	0	0	1	0
Apr-2024	1	0	1	0
May-2024	0	0	0	0
Jun-2024	3	0	0	0
Jul-2024	0	0	0	0
Aug-2024	0	1	1	0
Sep-2024	0	1	0	0
Nature of Complaints	Construction dust from construction sites near YHKCC and Yu Tung Road	Chung Yan Road construction siteSite Office of TCW	 Suspected discharge at Tung Chung Stream Muddy water at Shek Mun Kap Road 	

