

Environmental Outcome Profile

Use of locally-manufactured eco-materials at Pier Foundation



Non-reflective solar panel

Pile foundation without solid pier design

Recycled glass bricks for pavement

Retain existing pier structure

Minimize affected Corals through pier design and coral translocation

Project Site
(124m length, 6-26m width)



Pier Improvement at Tung Ping Chau

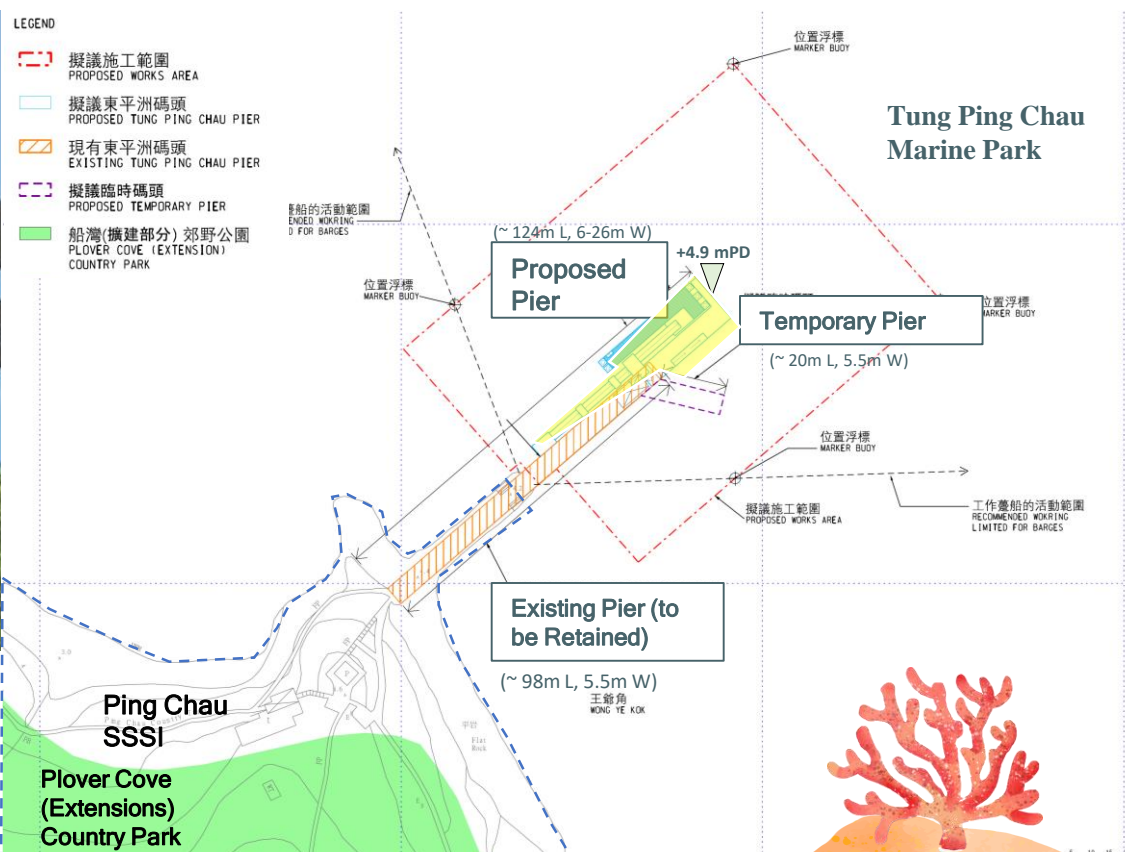


Y-shaped funnel

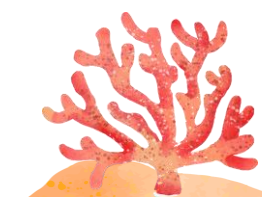


Oversized casing

Minimize construction phase impact through a combination of construction methods, such as Y-shaped funnel and double casing.



環境保護署
Environmental Protection Department



> Timeline

EIA Study Brief

EIA Report

Environmental Permit

Issued on 9 Feb 2018

Approved on 29 Dec 2020

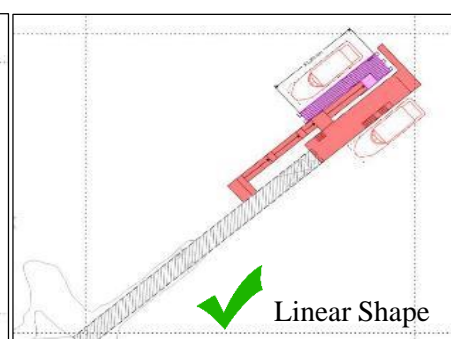
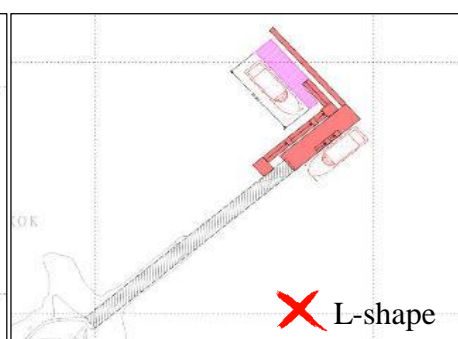
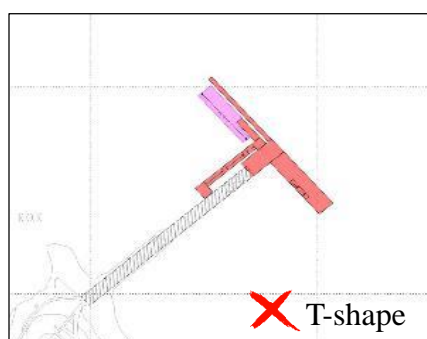
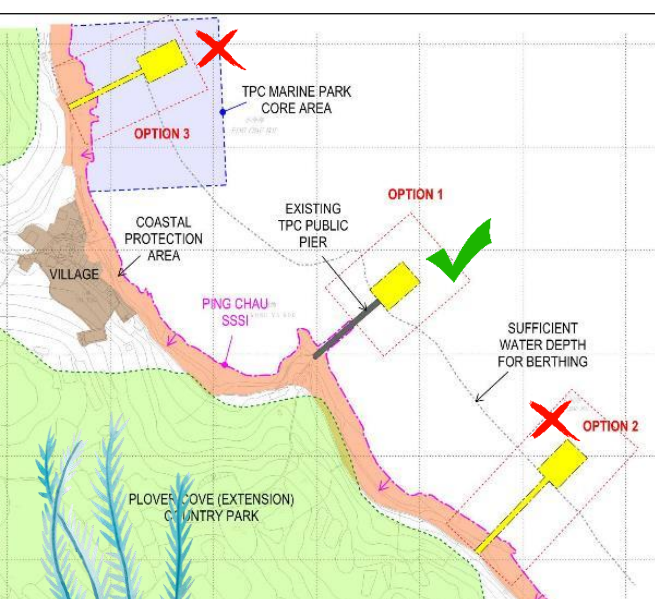
Issued on 19 Feb 2021

> Project Background



- The Project was identified by the Pier Improvement Programme (Phase 1) in 2017 Policy Address.
- The Project is needed because:-
 - ⚠ **Narrow landing step:** 2 landing steps at the existing pier head are narrow and steep, and do not meet the standard pier design requirements.
 - ⚠ **Inadequate berthing length:** The length at existing pier head (14-15m) is far less than the standard berthing length for typical passenger vessels (25-30m).

> Consideration of Alternatives



3 Pier Locations and 3 Pier Designs

Minimal number of corals affected

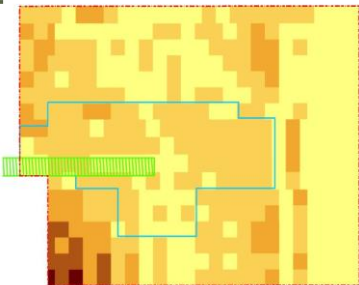
> Key Environmental Issues

The EIA has PROTECTED...

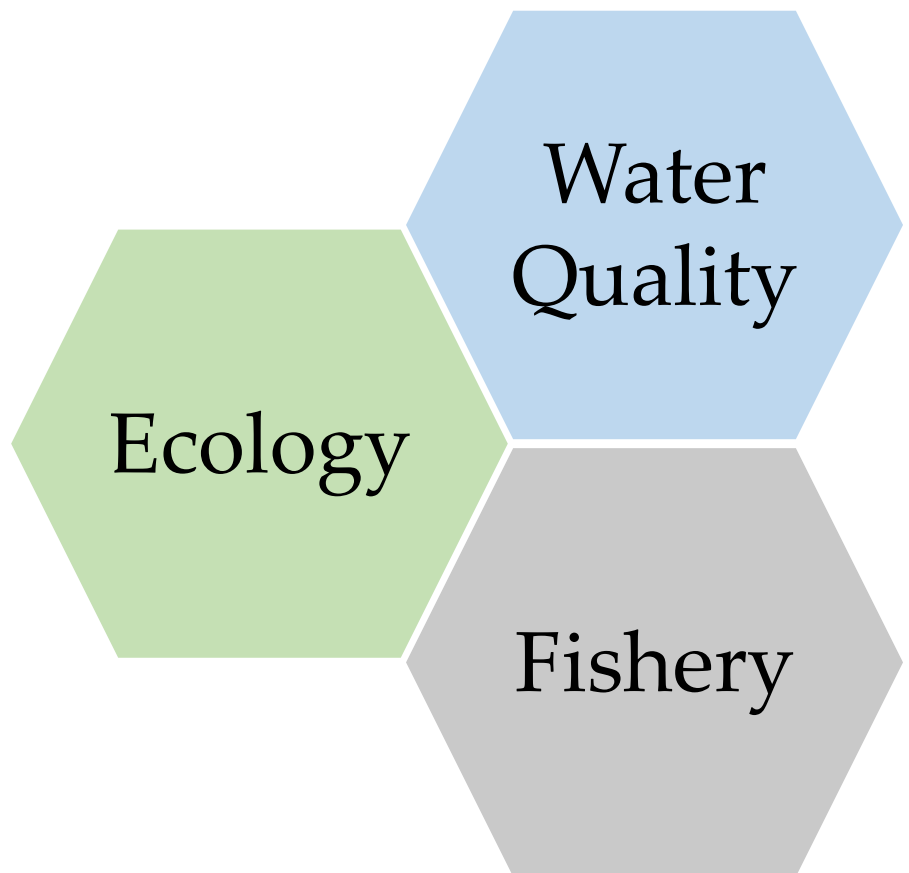
- ▶ **68** coral colonies (outside works area) due to Preferred option of pier (including 6 colonies of 1 rare species *Platygyra yaeyamaensis* (八重山扁腦珊瑚))
- ▶ Another **80** coral colonies (within works area) to be translocated



Platygyra yaeyamaensis
八重山扁腦珊瑚



Coral Survey



The EIA has AVOIDED...

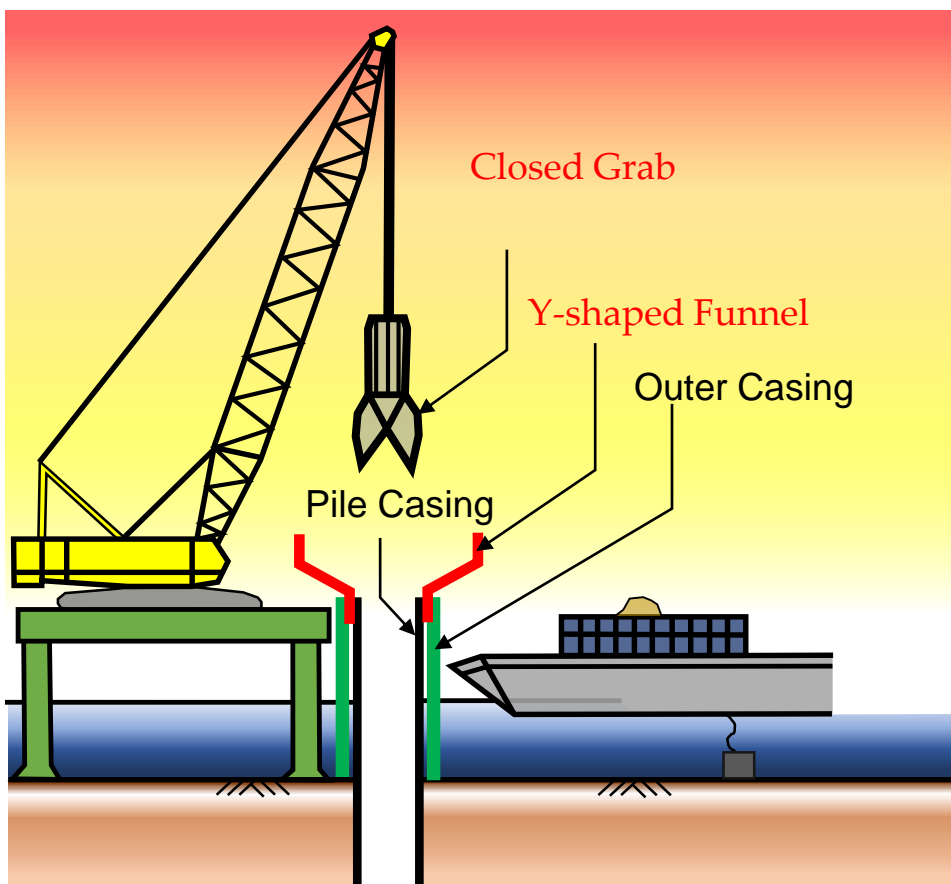
160 m² encroachment to area with high density coral colony

630 m² demolition work of existing pier in marine park

320 m² dredging area due to the adoption of non-dredge method

Solid pier foundation to allow fish to pass through the pier

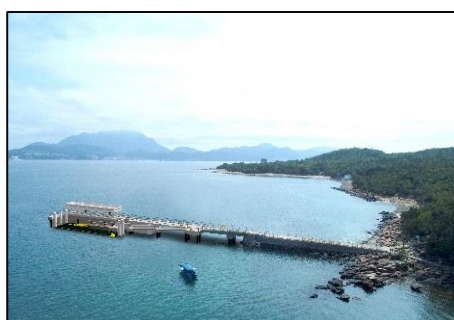
> Key Mitigation Measures



- ▶ Confine suspended solid with the use of double casing system, Y-shaped funnel and closed grab excavator
- ▶ Limit the use of closed grab excavator (1 at any time)
- ▶ Diver survey during placement of mooring sinker



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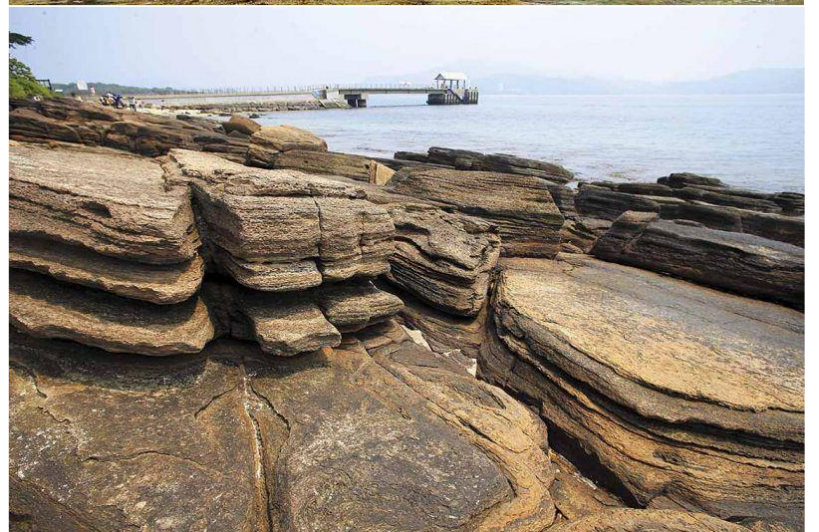
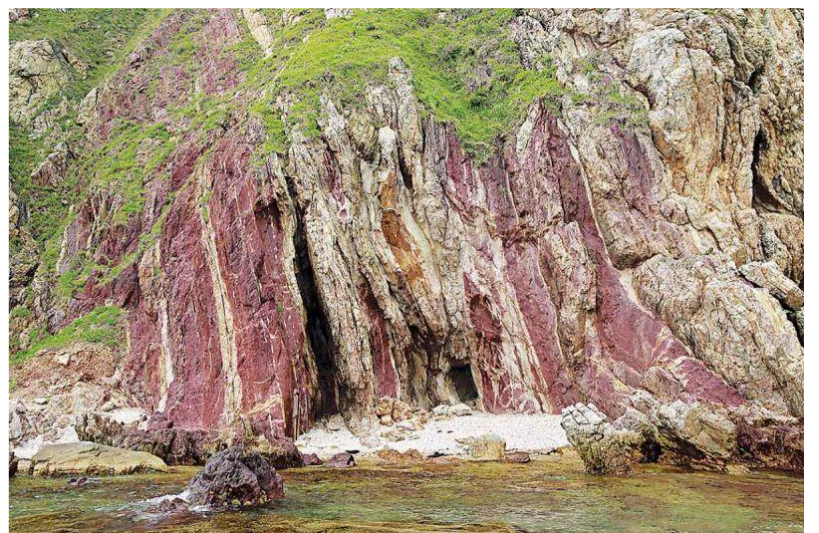
Enhancement to Pier Design (Color Scheme, Materials)

Monitor the Coral Translocation
(1) **Recruitment Rate**
(2) Enhancement of coral donor site (e.g. **Artificial Reef**)

Baseline

Post-monitoring

	T1		T1
	T2		T2



Pier Design compatible to surrounding environment, in particular the pier is located within Hong Kong UNESCO Global Geopark