

LOCAL VESSELS ADVISORY COMMITTEE

**Kai Tak Development -
Kai Tak approach channel and Kwun Tong typhoon shelter
improvement works (Phase 1)**

PURPOSE

1. The paper aims to brief members on the proposed Kai Tak approach channel (KTAC) and Kwun Tong typhoon shelter (KTTS) improvement works (Phase 1) and seeks members' views on the proposed arrangement of works.

BACKGROUND

2. The Kai Tak Development (KTD) is one of the ten major infrastructure projects announced by the Administration. Apart from turning the former airport site into an urban development with housings, education, hospital and community facilities, KTD also seeks to energize the East Kowloon district and create new job opportunities through a mix of tourism, sport and green projects. The projects are grouped into three packages for completion. The first package of KTD, including public housing developments, the first berth of the cruise terminal and associated infrastructure works are under active construction for completion in 2013. Detailed design for the remaining infrastructure works also commenced in 2009 for staged completion. The whole KTD is expected to be substantially completed in 2021.

3. To match with the operation of the cruise terminal, there is a need to improve the water quality of KTAC and KTTS. KTAC receives runoff from a catchment of about 1800 hectares in the old urban area of East Kowloon. Over the past decades, KTAC has been receiving tremendous amount of discharge of organic pollutants from the hinterland. Coupled with an elongated shape of water body, the water circulation of KTAC has been poor, leading to accumulation of contaminated sediments on the sea-bed and resulting in poor environmental conditions. To enable public enjoyment of the waterfront a series of mitigation measures, including the subject proposed improvement works, have been recommended in the approved Environmental Impact Assessment Report for KTD.

PROJECT DESCRIPTION

4. The proposed improvement works at KTAC and KTTS and associated waterways include:

- (i) in-situ bio-remediation treatment of sediment over an area of about 90 hectares of seabed to abate odour impact;
- (ii) localized dredging at KTAC to ensure sufficient water depth is available to effect odour suppression;
- (iii) repair and improvement works to the embankments of the associated waterways and outfalls; and
- (iv) demolition of disused dolphin

The location and extent of improvement works are shown in **Annex I**. We plan to substantially complete the above works by 2013.

5. The abatement of odour impact by in-situ bioremediation treatment of sediment is achieved by injecting oxidizing agent, such as calcium nitrate solution into the sediment to accelerate degradation of organic pollutants and odourous substances present in the sediment. Vessels will need to move inside the waterways of KTAC and KTTS to carry out the works. To minimize possible impact on the operation of the typhoon shelter and nearby marine facilities, such as Kwun Tong Public Cargo Working Area (KTPCWA), Kwun Tong Public Pier and Kwun Tong Vehicular Ferry Pier, we plan to carry out the works in zones and in stages. Tentatively, we plan to start works concurrently from the upstream of KTAC and northwest corner of KTPCWA, progressing towards the southeast direction. As only small vessels and associated facilities will be employed for carrying out the bioremediation works, impact on the operation of the typhoon shelter and nearby marine facilities will be minimal.

6. Owing to the fact that there are no existing marine facilities at KTAC, the proposed localized dredging works at KTAC shall not affect the operation of existing typhoon shelter and nearby marine facilities. The dredged sediment will be loaded onto barges and delivered to designated marine dumping area in East Sha Chau.

7. As only relatively small scale of works will be involved in the proposed repair and improvement works to the embankments of the associated waterways and

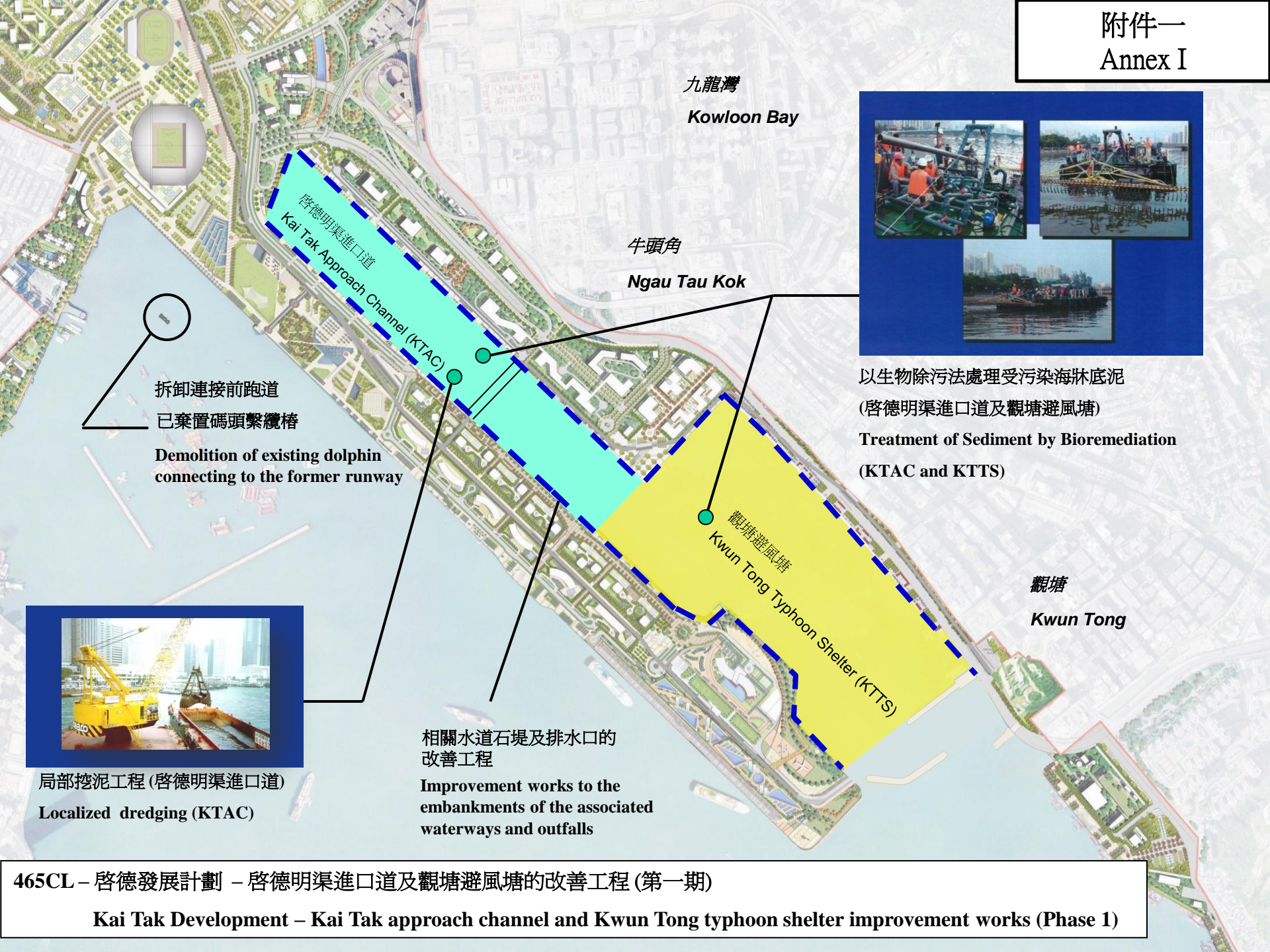
outfalls and demolition of the disused dolphin, impact on the operation of nearby marine facilities and vessels will be minimal.

8. To ensure minimum impacts of the above works on the operations of KTTS and the nearby marine facilities, the contractor will be required to liaise with the affected operators the arrangement of works prior to the commencement of works and special arrangement will also be made during typhoon seasons.

VIEWS SOUGHT

9. Members are invited to give their views on the proposed works arrangement.

Kowloon Development Office
Civil Engineering and Development Department
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九龍灣
Kowloon Bay

牛頭角
Ngau Tau Kok

觀塘
Kwun Tong

啓德明渠進口道
Kai Tak Approach Channel (KTAC)

觀塘避風塘
Kwun Tong Typhoon Shelter (KTS)



以生物除污法處理受污染海牀底泥
(啓德明渠進口道及觀塘避風塘)
Treatment of Sediment by Bioremediation
(KTAC and KTTS)

拆卸連接前跑道
已棄置碼頭繫纜樁
Demolition of existing dolphin
connecting to the former runway



局部挖泥工程 (啓德明渠進口道)
Localized dredging (KTAC)

相關水道石堤及排水口的
改善工程
Improvement works to the
embankments of the associated
waterways and outfalls