

**Appendix 5.9 Concurrent Projects and Potential Cumulative Water Quality Impacts**

**Table 1 Summary of Concurrent Projects Included in Hydrodynamic Modelling**

Project No.	Project Name	Nature of Project	Potential Cumulative Water Quality Impacts	Significant Cumulative Impacts	
				Construction Phase	Operation Phase
1	Reclamation for Kau Yi Chau Artificial Islands	Reclamation works for artificial islands and associated construction access	The proposed artificial island reclamations are approximately 8km away from the Project's reclamation area, considering the reclamation extent, there may be hydrodynamic and water quality impacts. However upon after analysing the results from hydrodynamic and water quality models, no adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No
2	Lung Kwu Tan Reclamation	Reclamation works to meet land supply demands	The proposed Lung Kwu Tan reclamation is approximately 13km away from the Project's reclamation area, considering the reclamation extent, there may be hydrodynamic and water quality impacts. However upon after analysing the results from hydrodynamic and water quality models, no adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No
3	Sunny Bay Reclamation	Reclamation works to meet land supply demands	The proposed Sunny Bay reclamation is within the Project's assessment area, considering the reclamation extent, there may be hydrodynamic and water quality impacts. However no public information regarding the construction phase is made available yet, nonetheless the preliminary reclamation extent is included in the hydrodynamic model. No adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No
4	Tsing Yi Lantau Link	Reclamation works for bridge supports	The proposed reclamation for Tsing Yi-Lantau Link's bridge footing is approximately 3km away from the Project's reclamation extent may be hydrodynamic and water quality impacts. However no public information regarding the construction phase is made available yet, nonetheless the preliminary reclamation extent is included in the hydrodynamic model. No adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No
5	Tung Chung New Town Area Extension	Reclamation works to meet land supply demands	The reclamation for Tung Chung New Town Extension is approximately 10km away from the Project's reclamation extent. Reclamation works are ongoing and it is projected to be completed in 2023, well before the construction phase of the Project. Considering the reclamation extent, there may be hydrodynamic and water quality impacts. However upon after analysing the results from hydrodynamic and water quality models, no adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No
6	Road P1 (Tai Ho Wan Sunny Bay Section)	Reclamation works as part of the alignment of a highway	The proposed reclamation for Road P1 are approximately 6km away from the Project's reclamation area. Considering the reclamation extent, there may be hydrodynamic and water quality impacts. However upon after analysing the results from hydrodynamic and water quality models, no adverse cumulative hydrodynamic and water quality impacts are anticipated.	No	No

**Appendix 5.9 Concurrent Projects and Potential Cumulative Water Quality Impacts**

**Table 2 Summary of Concurrent Projects Included in Construction Phase Water Quality Modelling**

Project No.	Project Name	Nature of Project	Potential Cumulative Water Quality Impacts	Significant Cumulative Impacts	
				Construction Phase	Operation Phase
1	Road P1 (Tai Ho Wan Sunny Bay Section)	Reclamation works as part of the alignment of a highway	The proposed reclamation for Road P1 are approximately 6km away from the Project's reclamation area, considering the overlap of dredging activities, the concurrent project is included in the construction phase water quality model to assess the cumulative impacts. However, results shows that there are no adverse cumulative water quality impacts given that proper mitigation measures are implemented.	No	No

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**Table 3 Summary of Concurrent Projects Within the Assessment Area**

Project No.	Project Name	Nature of Project	Potential Cumulative Water Quality Impacts	Significant Cumulative Impacts	
				Construction Phase	Operation Phase
1	Tuen Mun Bypass	A new highway with an approximate length of 7.5km linking the Tuen Mun-Chek Lap Kok Tunnel, and the YLH and KSWH	Only land based works are proposed. The Project and Tuen Mun Bypass would both use the Lam Tei Interchange. Potential adverse water quality impacts include construction site run-off, however with the proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for land-based works.	No	No
2	Widening of Yuen Long Highway (Section between Lam Tei Quarry and Tong Yan San Tsuen Interchange)	Highway improvement works to increase road capacity	The works would be within 500m of the Project alignment. Only land-based works are proposed where construction site run-off may be generated. With proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for both the construction and operational phase.	No	No
3	Hung Shui Kiu / Ha Tsuen New Development Area	A new town development area to meet housing and land supply needs	The sections near Lam Tei would be within 500m of the Project alignment. Only land-based works are proposed, where construction site run-off may be generated. For the operational phase, the sewage generated would be discharged to public sewers properly. With proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for both the construction and operational phase.	No	No
4	Underground Quarrying at Lam Tei, Tuen Mun	Development of an underground quarry	Lam Tei Quarry is within 500m of the Project alignment. There may be accidental groundwater infiltration and changes in groundwater levels for both construction and operational phases. Any potential cumulative impact would be addressed in its respective EIA study.	No	No
5	Widening of Fuk Hang Tsuen Road (Between Castle Peak Road – Lam Tei and Fuk Hang Tsuen Lane)	Road widening works	The proposed works is scheduled to be completed by Q1 2025. The works would be within 500m of the Project alignment. Only land-based works are proposed where construction site run-off may be generated. With proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for both the construction and operational phase.	No	No
6	Cycle Track between Tsuen Wan and Tuen Mun (Tuen Mun to So Kwun Wat Section)	Development of a new cycling track	Both marine and land based works are proposed. The marine works located near Sam Shing Estate is located within 500m of the Project alignment, and would involve the construction of the viaduct section, a pre-bored H-pile foundation method will be adopted and marine dredging would be avoided, hence no cumulative water quality impacts are anticipated. For land-based works and operational phase, with the proper implementation of mitigation measures, no cumulative water quality impacts are anticipated.	No	No
7	Cycle Track between Tsuen Wan Bayview Garden and So Kwun Wat	Development of a new cycling track	This project is still under study during the preparation of this EIA study, potential cumulative impact would be further reviewed and addressed in its respective environmental study.	No	No
8	Widening of Castle Peak Road - Castle Peak Bay	Road widening works	The works would be within 500m of the Project alignment. Only land-based works are proposed where construction site run-off may be generated. With proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for both the construction and operational phase.	No	No
9	Ground Investigation Works within Tai Lam Country Park for Route 11 (Section between Yuen Long and North Lantau)	Ground Investigation Works	The works would be within 500m of the Project alignment, which will be completed prior to commencement of construction of the Project. No cumulative water quality impacts are anticipated.	No	No

**Appendix 5.9 Concurrent Projects and Potential Cumulative Water Quality Impacts**

**Table 4 Summary of Concurrent Projects Beyond 500m of the Project or With Limited Public Information**

Project No.	Project Name	Nature of Project
1	Hong Kong Island West - Northeast Lantau Link	Road project consists of immersed tube sea tunnel, land viaduct, land tunnels and at-grade road.
2	Public Housing Development near Tan Kwai Tsuen, Yuen Long	Development of housing sites to meet housing needs.
3	Relocation of Tuen Mun Water Treatment Works to Caverns	Relocation of a water treatment works to cavern
4	Proposed Public Housing Developments at Ping Shan South, Yuen Long, Lam Tei North and Nai Wai, Tuen Mun	Development of public housing sites to alleviate territorial housing needs.
5	Development at Lam Tei North East	Land development for housing and economic purposes.
6	Sunny Bay Development	Reclamation and infrastructure works.
7	Developments of Tuen Mun East and Adjacent Green Belt Cluster [1]	Land use planning for potential sites in Tuen Mun East

Notes:

[1] The location of the project is yet to be confirmed at this stage.

[2] For concurrent project which is still under study and under planning during the preparation of this EIA study, potential cumulative impact would be further reviewed and addressed in its respective environmental study