

Appendix 5.2 Concurrent Projects and Potential Cumulative Water Quality Impacts

Project No.	Project Name	Nature of Project	Potential Cumulative Water Quality Impacts	Significant Cumulative Impacts	
				Construction Phase	Operation Phase
1	Route 11 (Section between Yuen Long and North Lantau)	A new highway with an approximate length of 20km between North West New Territories and North Lantau.	Both marine and land based works are proposed. The reclamation works for Route 11 are more than 1 km away from the Project and there are no marine works proposed under the Project, hence no cumulative water quality impact is anticipated for marine works. For land-based works, Route 11 and the Project would both use the Lam Tei Interchange, however with the proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for land-based works.	No	No
2	Traffic Improvement Scheme in Tuen Mun - Widening and Addition of Slip roads at Lung Fu Road/ Tuen Mun Road/ Wong Chu Road/ Hoi Wing Road	Road improvement works to increase road capacity.	The proposed works is scheduled to be completed by 2031 or before. 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	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
4	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
5	Cycle Track between Bayview Garden and So Kwun Wat	Development of a new cycling track.	The project is still under planning. Details of construction programme is not available during the preparation of this EIA study for detailed cumulative impact assessment.	No	No
6	Reprovision of Tuen Mun Swimming Pool and Tuen Mun centre Golf Centre Practice Green	Reprovision of recreation facilities	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
7	Tuen Mun South Extension	Extension of the existing Tuen Ma Line (TML) to meet local transportation needs.	Both river and land based works are proposed. The proposed river-based works would involve construction of the viaduct section, where new piers would be installed on Tuen Mun River which is within 500m of the Project alignment. Cofferdams and precast pile cap shells would be used. With these measures in place, water quality impacts would be localised and transient. Land-based works are also proposed, and no cumulative impacts are anticipated with the proper implementation of mitigation measures.	No	No
8	Planned Property Development at Area 16, Tuen Mun	Potential residential development	Construction works and alignment of TMB within 500m of this concurrent project is underground, no adverse construction and operational phase impact is anticipated.	No	No

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9	Sports Ground and Open Space with Public Vehicle Park in Area 16, Tuen Mun	Proposed Ground and Open Space	Construction works and alignment of TMB within 500m of this concurrent project is underground, no adverse construction and operational phase impact is anticipated.	No	No
10	Public Housing Developments at Tuen Mun Central - Wu Shan Road	Development of public housing sites to alleviate territorial housing needs.	Housing sites in Tuen Mun (i.e. Wu Shan Road and Hang Fu Street etc.) fall within 500m of the Project alignment. Only land-based works are anticipated where construction site run-off may be generated. Connections to public sewers will be designed for the operational phase. With the proper implementation of mitigation measures, no cumulative water quality impacts are anticipated for both construction and operational phase.	No	No
11	Widening of Yuen Long Highway (Section between Lam Tei Quarry and Tong Yan San Tsuen Interchange)	Road improvement works to increase road capacity	This concurrent project is located more than 500m away from the Project, hence no cumulative impacts are anticipated. In addition, only land-based works are anticipated.	No	No
12	Widening of Castle Peak Road - Castle Peak Bay	Road improvement works to increase road capacity	There is no overlap of construction period. Therefore, cumulative impact during construction phase is not anticipated.	No	No
13	Widening of Fuk Hang Tsuen Road (Between Castle Peak Road – Lam Tei and Fuk Hang Tsuen Lane)	Road improvement works to increase road capacity	There is no overlap of construction period. Therefore, cumulative impact during construction phase is not anticipated.	No	No
14	Development at Lam Tei North East	Land development for housing and economic purposes.	Lam Tei North East Area 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
15	Relocation of Tuen Mun Water Treatment Works to Caverns	Relocation of a water treatment works to cavern.	The existing Tuen Mun Water Treatment Works is currently being studied to be relocated to the cavern space at the Lam Tei Quarry site for land supply purposes. There may be accidental groundwater infiltration and changes in groundwater levels for both construction and operational phases.	No	No
16	Lung Kwu Tan Reclamation and the Replanning of Tuen Mun West Area	Land development for housing and economic purposes.	Details of construction programme and plant inventory is not available during the preparation of this EIA study for detailed cumulative impact assessment.	No	No