

Appendix 12.1 – Key Assessment Assumptions and Limitations of Assessment Methodologies

Assessment Methodology	Key Assessment Assumptions	Limitations of Assessment Methodologies / Assumptions	Prior Agreements with EPD / Other Authorities		Proposed Alternative Assessment Tools / Assumptions (if applicable)
			EIA Study Brief (ESB-302/2017) Clause Reference	Relevant Documentation	
Air Quality Impact					
Construction Phase					
The air quality impact assessment follows: Annexes 4 and 12 of the EIAO-TM and requirement from the EIA Study Brief (ESB-302/2017).	<ul style="list-style-type: none"> The construction works will be of small-scale and confined within small work area and that construction activities will not take place at the entire construction work site at the same time, but to be undertaken at multiple work fronts at different construction periods. The construction activities at different work fronts will not take place concurrently. 	The construction programme is indicative and subject to contractors' actual operation.	Clause 3.4.3.3	Working Paper on Identification of Air Sensitive Receivers	N/A
Operational Phase					
The air quality impact assessment follows: Annexes 4 and 12 of the EIAO-TM and requirement from the EIA Study Brief (ESB-302/2017).	<ul style="list-style-type: none"> Only electric vehicles will be used to provide the hassle-free bonded cross-boundary bus trips, and potentially bonded limousine trips subject to regulatory approval, between the ITT and HKBCF Island via the Bonded Vehicular Bridge and Associated Roads. 	N/A	Clause 3.4.3.3	Working Paper on Identification of Air Sensitive Receivers	N/A

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Noise Impact					
The noise impact assessment follows: Annexes 5 and 13 of the EIAO-TM and requirement from the EIA Study Brief (ESB-302/2017).	<ul style="list-style-type: none"> No existing and planned NSRs which rely on opened windows for ventilation is identified within the assessment area. 	N/A	Clause 3.4.4.3	Working Paper on Noise Impact Assessment	N/A
Water Quality Impact					
Construction Phase					
The water quality impact assessment followed: Annexes 6 and 14 of the EIAO-TM. Qualitative assessment was conducted for the water quality impact.	<ul style="list-style-type: none"> The construction method of the Project is based on the engineering assessment. 	N/A	N/A	N/A	N/A
Operational Phase					
The water quality impact assessment followed: Annexes 6 and 14 of the EIAO-TM and requirement from the EIA Study Brief (ESB-302/2017). Change of flow regime due to the presence of the marine bridge piles of the Project has been identified and quantitatively assessed by using Delft3D model.	<ul style="list-style-type: none"> Coastline configuration for water quality assessment is based on the committed / on-going / planned coastal developments. The general layout and dimensions of the marine bridge piles of the Project is based on the engineering design. 	N/A	Appendix C-1	Methodology Paper for Water Quality Impact Assessment	N/A

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Waste Management Implication					
The waste management implication assessment for the Project follows Annexes 7 and 15 of the EIAO-TM as well as the requirements given in EIA Study Brief (No. ESB-302/2017).	<ul style="list-style-type: none"> The waste quantities to be generated from the Project were estimated based on engineering assessment. 	N/A	Appendix D	Sediment Sampling and Testing Plan	N/A
Marine Ecology					
The ecological impact assessment for the Project follows: <ul style="list-style-type: none"> Annexes 8 and 16 of the EIAO-TM for the criteria, general approach and methodology for assessment of ecological impacts. EIAO Guidance Note No. 3/2010, No. 6/2010, No. 7/2010 and No.11/2010 for general guidelines for conducting ecological baseline surveys and environmental mitigation measure recommendations. 	<ul style="list-style-type: none"> The assessment and evaluation of ecological impact was undertaken based on the results of literature review and ecological field surveys. 	N/A	N/A	N/A	N/A
Landscape and Visual Impact					
The landscape and visual impact assessment followed Annexes 10	<ul style="list-style-type: none"> The assessment is based on conservative assumptions that compensatory trees HKBCF island as planned by other 	Assessment of sensitivity of receivers and the	N/A	N/A	N/A

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and 18 of the EIAO-TM and the EIAO Guidance Note No. 8/2010.	<p>projects were planted prior to the Project construction, in which HKBCF planting program is uncertain during the assessment period.</p> <ul style="list-style-type: none"> The future management / maintenance of the proposed new trees will be handed over to the project proposer in accordance to Development Bureau Technical Circular (Works) (DevB TCW) No. 10/2013 – Tree Preservation. 	magnitude of changes of Project works are inherently subjective.			
Cultural Heritage					
<p>The cultural heritage impact assessment for the Project follows:</p> <ul style="list-style-type: none"> A&MO (Cap. 53) Annexes 10 and 19 of the EIAO-TM EIA Project Study Brief (ESB-302/2017) GCHIA GMAI; and HKPSG. 	<ul style="list-style-type: none"> No cultural heritage resource is identified within the proposed project area. Thus, no impact is anticipated and no mitigation measure is needed. 	N/A	Appendix G	Working Paper on Cultural Heritage Impact Assessment	N/A