
APPENDIX 12.1

**Key Assessment Assumptions, Limitation of Assessment
Methodologies and related Prior Agreement(s)**

Appendix 12.1 Key Assessment Assumptions, Limitation of Assessment Methodologies and related Prior Agreement(s)

| Assessment Methodologies | Key Assessment Assumptions | Limitations of Assessment Methodologies / Assumptions | Prior Agreements with EPD | |
|--|---|--|----------------------------------|--|
| | | | EIA Study Brief Clause Reference | Relevant Documentation |
| Air Quality Impact | | | | |
| <p>The air quality impact assessment for the Project follows Annex 4 and Annex 12 of the Technical Memorandum on Environmental Impact Assessment (TM-EIAO) and requirement from the EIA Study Brief (ESB-288/2015).</p> <p>Qualitative assessment was conducted for air quality impact in both construction and operational phase.</p> | <p>The qualitative assessment was conducted based on the Project design and construction details available at the time of the EIA study.</p> | N/A | Not required | N/A |
| Noise Impact | | | | |
| <p><u>Construction Noise</u> The noise impact assessment for the project follows Annex 5 and Annex 13 of the EIAO-TM, the requirement in the EIA Study Brief (ESB-288/2015) and Technical Memorandum on Noise from Construction Works other than Percussive Piling (GW-TM) under the Noise Control Ordinance (NCO).</p> | <p>The construction noise was predicted based on standard acoustic principles. Sound Power Levels (SWLs) of powered mechanical equipment (PME) were taken from Table 3 of the GW-TM. Where no SWL is provided in the GW-TM, reference was made to British Standard BS5228 “Code of practice for noise and vibration control on construction and open sites”, Part 1 or other previous similar studies or from measurements taken at other sites in Hong Kong.</p> | <p>The prediction of construction noise impact was based on the procedures in GW-TM under the NCO. The programme and plant inventory for proposed construction works adopted in the assessment might vary in future.</p> | Appendix B | Agreement of assessment area and selected assessment points (Appendix 4.4) |
| <p><u>Fixed Plant Noise</u> The noise impact assessment for the project follows Annex 5 and Annex 13 of the EIAO-TM as well as the requirements given in EIA Study Brief (No. ESB-288/2015) and</p> | <p>The total maximum permissible sound power level (Max. SWL) of the identified fixed noise sources were determined by adopting standard acoustics principles. The distance is assumed to be the</p> | N/A | Appendix B | Agreement of assessment area and selected assessment points (Appendix 4.4) |

| Assessment Methodologies | Key Assessment Assumptions | Limitations of Assessment Methodologies / Assumptions | Prior Agreements with EPD | |
|---|---|---|----------------------------------|---------------------------------|
| | | | EIA Study Brief Clause Reference | Relevant Documentation |
| Technical Memorandum for the Assessment of Noise from Places other than Domestic Premises, Public Places or Construction Sites (IND-TM) under NCO. | minimum distance between the NSR and the Project boundary, and all items of operational plant to be operated simultaneously during the operation period. | | | |
| Hazard to Human Life | | | | |
| The Hazard to Life Assessment for the Project follows Annex 4 of the EIAO-TM as well as the requirements given in EIA Study Brief (No. ESB-288/2015) Assessment was conducted for Hazard to Life impact in both construction and operational phase. | The assessment methodology, key assumptions, etc. followed the data available in "Integration of Siu Ho Wan and Silver Mine Bay Water Treatment Works" EIA report | N/A | Appendix C | Agreement of Methodology Paper. |
| Water Quality Impact | | | | |
| The water quality impact assessment for the Project follows Annexes 6 and 14 of the EIAO-TM as well as the requirements given in EIA Study Brief (No. ESB-288/2015). Qualitative assessment was conducted for water quality impact in both construction and operational phase. | N/A | N/A | N/A | N/A |
| Waste Management Implications | | | | |
| 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-288/2015). | The waste quantities to be generated from the Project during construction and operational phases were estimated based on the engineering assessment. | N/A | N/A | N/A |
| Ecological Impact (Terrestrial and Aquatic) | | | | |
| The ecological impact assessment for the Project follows: | The assessment and evaluation of ecological impact was undertaken based | N/A | N/A | N/A |

| Assessment Methodologies | Key Assessment Assumptions | Limitations of Assessment Methodologies / Assumptions | Prior Agreements with EPD | |
|---|---|---|----------------------------------|------------------------|
| | | | EIA Study Brief Clause Reference | Relevant Documentation |
| 1. Annexes 8 and 16 of the EIAO-TM for the criteria, general approach and methodology for assessment of ecological impacts 2. EIAO Guidance Note No. 3/2010, No. 6/2010, No. 7/2010 and No. 10/2010 for general guidelines for conducting ecological baseline surveys and environmental mitigation measure recommendations | on the results of literature review, and ecological field survey. | | | |
| Landscape and Visual Impact | | | | |
| The landscape and visual impact assessment was prepared based on existing available information and in accordance with EIAO-TM Annexes 10 & 18 and EIAO GN No. 8/2010. | N/A | N/A | N/A | N/A |

Note: N/A Not applicable