

8 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

8.1 Introduction

- 8.1.1 This section elaborates the requirements of EM&A for the Project, based on the assessment results of various environmental issues.
- 8.1.2 The objectives of carrying out EM&A for the Project include the following:
- to provide a database against which any environmental impacts of the Project can be determined;
 - to provide an early indication should any of the environmental control measures or practices fail to achieve the acceptable standards;
 - to monitor the performance of the Project and the effectiveness of mitigation measures;
 - to verify the environmental impacts predicted in this EIA;
 - to determine project compliance with regulatory requirements, standards and government policies;
 - to take remedial action if unexpected problems or unacceptable impacts arise; and
 - to provide data to enable an environmental audit.
- 8.1.3 The EM&A reporting shall be carried out in paper based plus electronic submission upon agreeing the format with the ER and EPD. All the monitoring data (baseline and impact) shall also be submitted in electronic format.
- 8.1.4 The following sections summarise the recommended EM&A requirements. Details of EM&A are provided in the EM&A Manual.

8.2 Noise Impact

- 8.2.1 No noise sensitive receiver was identified within 300m from the Project. Construction noise monitoring is therefore not considered necessary
- 8.2.2 No environmental monitoring and audit for potential noise impact during the operation phase is considered necessary.

8.3 Air Quality Impact

- 8.3.1 With the implementation of the proposed dust suppression measures & good site practices, no unacceptable dust impact would be expected at the air sensitive receivers. No air quality monitoring during the construction phase is considered necessary. However, regular inspections of the construction activities and works areas should be conducted during the construction phase to ensure proper implementation of the recommended mitigation measures.
- 8.3.2 No air quality monitoring and audit during the operation phase is considered necessary.

8.4 Water Quality Impact

- 8.4.1 No adverse water quality impact would be expected during the construction and operation of the Project, provided recommended mitigation measures are properly implemented. Water quality monitoring is therefore not considered necessary. However, it is recommended that regular site inspections during the construction phase should be undertaken to inspect the construction activities and works areas in order to ensure the recommended mitigation measures are properly implemented.

8.5 Waste Management Implications

- 8.5.1 Waste management will be the Contractor's responsibility to ensure that all waste produced during the construction of the Project are handled, stored and disposed of in accordance with the good waste management practices and relevant legislation and waste management guidelines.
- 8.5.2 It is recommended that the waste materials generated during the construction activities, such as C&D materials, should be audited at regular intervals to ensure that proper storage, transportation and disposal practices are implemented. This would ensure the waste generated would be properly disposed of. The Contractor would be responsible for the implementation of any mitigation measures to minimize waste or mitigate problems arisen from waste materials.
- 8.5.3 A WMP, as a part of the EMP, should be prepared in accordance with ETWB TC(W) No. 19/2005 and submitted to the Engineer for approval. The recommended mitigation measures should form the basis of the WMP. The monitoring and auditing requirement stated in ETWB TC(W) No. 19/2005 should be followed with regard to the management of C&D materials.

8.6 Landscape and Visual Impact

- 8.6.1 Landscape and visual monitoring and auditing will be the Contractor's responsibility to ensure that all potential impacts on the landscape resources and the visually sensitive receivers during the construction of the Project are alleviated to an acceptable level in accordance with the recommended landscape and visual mitigation measures, the EIAO-TM criteria and EPD's regulations and requirements. Appropriate landscape and visual mitigation measures recommended in this EIA Report should form the basis for the site monitoring and review by the Contractor at the construction phase.
- 8.6.2 Details of the landscape and visual monitoring and auditing programme during design, construction and operation phases are provided in the EM&A Manual.