

4 WATER QUALITY IMPACT

4.1 Introduction

4.1.1 No off-site marine water quality impact would be expected from the Project and given that there would not be any marine-based works for the proposed works, water quality monitoring is not considered necessary. However, it is recommended that regular site audits (at least once per week) be undertaken to inspect the construction activities and works areas in order to ensure the recommended mitigation measures are properly implemented. Proposed mitigation measures for containing and minimizing water quality impacts are listed in the implementation schedule given in **Appendix A**.

4.2 Site Audits

4.2.1 Implementation of regular site audits (at least once per week) is to ensure that the recommended mitigation measures are to be properly undertaken. It can also provide an effective control of any malpractices and therefore achieve continual improvement of environmental performance on site.

4.2.2 Site audits shall include site inspections and monitoring audits.

Site Inspections

4.2.3 Site inspections shall be carried out by the ET and shall be based on the mitigation measures for water pollution control recommended in the implementation schedule as attached in **Appendix A**. In the event that the recommended mitigation measures are not fully or properly implemented, deficiency shall be recorded and reported to the site management. Suitable actions are to be carried out to:

- Investigate the problems and the causes;
- Issue action notes to the Contractor which is responsible for the works;
- Implement remedial and corrective actions immediately;
- Re-inspect the site conditions upon completion of the remedial and corrective actions; and
- Record the event and discuss with the Contractor for preventive actions.

Monitoring Audits

4.2.4 Monitoring audits are to be undertaken to ensure that a valid discharge license has been issued by EPD prior to the discharge of effluent from the Project site. Parameters included in the WPCO licence, will also be included in the monitoring programme. The chemical testing of water samples collected in the monitoring programme should be undertaken by a Hong Kong Laboratory Accreditation Scheme (HOKLAS) accredited laboratory. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements and that the recommended water quality mitigation measures are properly implemented. In case of non-compliance, suitable actions should be undertaken to:

- Notify the site management for the non-compliance;
- Identify the sources of pollution;
- Check the implementation status of the recommended mitigation measures;
- Investigate the operating conditions of the on-site treatment systems;
- Implement corrective and remedial actions to improve the effluent quality;
- Increase monitoring frequency until the effluent quality is in compliance with the discharge licence requirements; and
- Record the non-compliance and propose preventive measures.

