

However, documents reviewed indicated that non-monitoring of these landfill gases could lead them migrating off-site and cause odour and potentially dangerous conditions.⁴¹

Recommendation:

The OAG recommends that the Environmental Health Division should;

- **Appropriately make an effort to manage and monitor landfill gases to avoid any negative impacts on the environment.**
- **Develop a plan on how these tests will be conducted to assess the toxicity of air released at the waste cells.**

Management Comment

The KDC concurred with both the observation and recommendation and indicated that "tests for ambient air will be done twice annually starting financial 2015/16 whilst Landfill gases will be monitored appropriately".

A further tender number KWDC/TR/PH-HQ/001/2017 was rejected by the Adjudication Committee on 11/10/17 for insufficiency of funds. However, efforts will be made to source funds for the project during this financial year (2017/18)

3.3.2 LEACHATE MONITORING

Monitoring of landfill operations is critical to assess the impact of the landfill on water quality and water regime in the vicinity of the landfill. This is to ensure that water in the vicinity of the landfill is not contaminated. Additionally, ground water sampling from the boreholes and pond is to be carried out every six (6) months to sample and analyse leachate and determine the leachate substances.⁴²

⁴¹ Guidelines for the Disposal of Waste by Landfill, 1997

⁴² Botswana Landfill Guidelines