



ANNEX G5

INVESTIGATION REPORTS OF  
ENVIRONMENTAL QUALITY LIMIT  
EXCEEDANCE

## Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	13 August 2024
Time	11:33
Monitoring Location	LFG17
Parameter	Carbon Dioxide
Limit Level	2.4%
Measured Level	2.8%
Possible reason	<p>During the landfill gas monitoring event, the carbon dioxide monitoring results of the landfill gas wells adjacent to LFG17 (LFG16: 0.5% and LFG18: 0.2%) are well within the respective limit levels. All landfill gas (methane) monitoring results are well within the respective Limit Levels. In addition, no exceedance of Limit Levels for landfill gas monitoring at service voids, utilities pits and manholes (conducted on 7 August 2024) was recorded in the reporting period. Hence, there is a low possibility that the elevation of carbon dioxide level at LFG17 is due to landfill gas migration from SENTX operation or at least it is not conclusive to base on these results to demonstrate that the exceedance was due to landfill gas migration.</p> <p>Repeat measurement was conducted on 14 August 2024 to confirm findings. Carbon dioxide level of 2.3% (below the Limit Level) was detected at LFG17 during the additional sampling event, which demonstrate no consecutive landfill gas impact at the monitoring well. It is possible that the elevated level of carbon dioxide detected at LFG17 on 13 August 2024 could be due to background fluctuation.</p> <p>Due to the background influencing factor and the subsequent monitoring result at LFG17 did not show any exceedance, there is no adequate evidence showing that the carbon dioxide exceedance measured at LFG17 on 13 August 2024 was deemed to Project-related activities.</p>
Action Taken / Action to be Taken	<p>Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is reminded to implement relevant and appropriate mitigation measures according to the updated EM&amp;A Manual to avoid any exceedance of the Action and Limit Levels.</p> <p>ET will continue to closely monitor the landfill gas monitoring results and collect additional data for investigation and further review, if necessary.</p>
Remarks	-

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Date: 21 August 2024

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