

Annex F9

Investigation Reports of
Environmental Quality
Limit Exceedance

Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	17 - 22 June 2023
Monitoring Location	Pump Station No. 4X (Cell 4X)
Parameter	Leachate level
Limit Levels	> 186 cm
Measured Level	<u>Pump Station No. 4X (Average of Meter No. X-7 and No. X-8)</u> 17 June 2023: 234 cm 18 June 2023: 279 cm 19 June 2023: 299 cm 20 June 2023: 287 cm 21 June 2023: 260 cm 22 June 2023: 216 cm
Possible reason	<p>From the on-site rainfall record of June 2023, heavy rainfall events (up to 90 mm per day) were recorded from 17 to 22 June 2023. Amber and red rainstorm warning signals were also issued by the Hong Kong Observatory on 17 and 18 June 2023. As confirmed by the Contractor, the leachate collection system and leachate treatment plant were under normal operating conditions during the reporting period.</p> <p>Accumulation of surface water at Cell 4X was observed during the reporting period, which could contribute to the leachate level exceedances. Based on this observation, the leachate level exceedances at Pump Station No. 4X were deemed to Project-related activities.</p> <p>It is understood that the large volume of leachate (contaminated surface runoff) accumulated at Cell 4X has exceeded the leachate treatment capacity (daily maximum effluent discharge volume of 1,633 m³ recorded from 17 to 22 June 2023, with daily effluent discharge limit of 2,000 m³ as stipulated in the WPCO license).</p>
Action Taken / Action to be Taken	Examination of environmental performance of the Project will be continued during the weekly inspections. The Contractor is reminded to closely monitor the operating conditions of the leachate collection system (e.g. set alarm when the leachate level reach about 80% of the Limit Level) and pump out the leachate for treatment to avoid any exceedance of the Limit Level.
Remarks	-

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