



ANNEX F9

INVESTIGATION REPORTS OF
ENVIRONMENTAL QUALITY LIMIT
EXCEEDANCE

Interim Notification of Environmental Quality Limit Exceedances	
Project	South East New Territories (SENT) Landfill Extension
Date	7 – 16 August 2025
Monitoring Location	Pump Station No. 4X (Cell 4X)
Parameter	Leachate Level
Limit Level	186 cm
Measured Level	<p>Pump Station No. 4X (Average of Meter No. X-7 and No. X-8)</p> <p>7 August 2025: 202 cm</p> <p>8 August 2025: 221 cm</p> <p>9 August 2025: 238 cm</p> <p>10 August 2025: 243 cm</p> <p>11 August 2025: 247 cm</p> <p>12 August 2025: 243 cm</p> <p>13 August 2025: 241 cm</p> <p>14 August 2025: 230 cm</p> <p>15 August 2025: 219 cm</p> <p>16 August 2025: 204 cm</p>
Possible reason for Action/ Limit Level Non-compliance	<p>From the on-site rainfall record of August 2025, heavy rainfall events (up to 318 mm per day) were recorded from 7 to 16 August 2025. Amber, red and black rainstorm warning signal were also issued by the Hong Kong Observatory on 2, 4, 5 and 14 August 2025. 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 1,980 m³ recorded from 7 to 16 August 2025, with daily effluent discharge limit of 2,000 m³ as stipulated in the WPCO license).</p>
Actions taken/ 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.

Interim Notification of Environmental Quality Limit Exceedances

Remarks	-
---------	---

Prepared by: Solana Leung

Designation: Environmental Team

Date 2 September 2025

Interim Notification of Environmental Quality Limit Exceedances	
Project	South East New Territories (SENT) Landfill Extension
Date	11 August 2025
Time	09:45
Monitoring Location	DP3
Parameter	Suspended Solids (SS)
Limit Level	30 mg/L
Measured Level	43.9 mg/L
Possible reason for Action/ Limit Level Non-compliance	<p>From the on-site rainfall record of August 2025, heavy rainfall events were recorded on 2, 4 and 5 August 2025 before the sampling event. Amber, red and black rainstorm warning signal were also issued by the Hong Kong Observatory on 2, 4 and 5 August 2025.</p> <p>No works which may lead to potential SS increase (e.g. active stockpiling and excavation works) was conducted in the vicinity of surface water channel leading to DP3 on the sampling day based on on-site observations and construction activities described by the Contractor.</p> <p>During the sampling event, no raining was recorded, and no other sources (e.g. other project sites) was identified in the vicinity of surface water channel leading to DP3 which might cause the SS exceedance at DP3. Site surface runoff at DP3 channel was treated by the Wetsep prior to discharge. The contaminated runoff from the unpaved areas during the previous rainfall events could also be the potential source of SS contributing to the exceedance. The SS exceedance at DP3 was therefore deemed to Project-related activities.</p> <p>In accordance with Table 4.5b of the updated EM&A Manual, repeat measurement was conducted on 22 August 2025 to confirm findings. Surface water samples with SS concentration of 21.6 mg/L and 22.4 mg/L (below the Limit Level) were sampled at DP3, which demonstrate no consecutive surface water quality impact at the monitoring location.</p>
Actions taken/ to be taken	<p>In accordance with Table 4.5b of the updated EM&A Manual, the monitoring frequency shall be increased to weekly until no exceedance of Limit Level. It should be noted that the turnaround time for the laboratory analysis of the surface water sample is 5 working days and the preliminary result for the monitoring event conducted on 11 August 2025 was available on 18 August 2025. Repeat measurement was scheduled on 22 August 2025, and the SS results at DP3 are well below the Limit Level. Hence, the weekly surface water monitoring at DP3 shall not be triggered.</p> <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</p>

Interim Notification of Environmental Quality Limit Exceedances

according to the updated EM&A Manual to avoid any exceedance of the Action and Limit Levels.

In addition, the Contractor shall review the efficiency of the Wetsep near sediment trap and monitor the Wetsep operation regularly to ensure it is functioning properly at all times.

Remarks

-

Prepared by: Solana Leung

Designation: Environmental Team

Date 2 September 2025