

## Investigation Report of Environmental Quality Limit Exceedance

Project	South East New Territories (SENT) Landfill Extension
Date	28 May 2020
Time	DP4T: 15:13 DP6: 14:48 and 14:57 (Duplicate)
Monitoring Location	DP4T and DP6
Parameter	Surface Water (Suspended Solids (SS))
Action / Limit Levels	DP4T and DP6: Action level: >11.7 mg/L Limit level: >12.7 mg/L
Measured Level	DP4T: 42.2 mg/L DP6: 17.7 mg/L DP6 (Duplicate): 16.4 mg/L
Possible reason	<p>DP4T:</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 DP4T on the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water overflow to the DP4T channel was observed. Surface runoff collected at DP4T channel was treated by the Wetsep prior to discharge. Environmental deficiency was not observed during the weekly site inspection in the morning. The Contractor has taken the necessary control /mitigation measures outlined in the updated EM&amp;A Manual.</p> <p>From the on-site rainfall record of May 2020, heavy rainfall event was recorded on 22, 23, 25 and 26 May 2020. Red rainstorm warning signal was issued by the Hong Kong Observatory on 25 May 2020. No raining was recorded during the sampling event.</p> <p>During the sampling event, no other sources (e.g. existing SENT Landfill and Clearwater Bay Country Park) was identified in the vicinity of surface water channel leading to DP4T which might cause the SS exceedance at DP4T. Contaminated runoff from the haul road and other unpaved areas during the previous rainfall events could be the potential source of SS contributing to the exceedance. The SS exceedance at DP4T was therefore deemed to Project-related activities.</p> <p>DP6:</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 DP6 on the sampling day based on on-site observations and construction activities described by the Contractor. During the sampling event, no potential surface water overflow to the DP6 channel was observed. Silt fencing was</p>

	<p>constructed along the DP6 channel to minimise SS runoff to the channel. Surface runoff collected at DP6 channel was treated by the Wetsep prior to discharge. Environmental deficiency was not observed during the weekly site inspection in the morning. The Contractor has taken the necessary control /mitigation measures outlined in the updated EM&amp;A Manual.</p> <p>From the on-site rainfall record of May 2020, heavy rainfall event was recorded on 22, 23, 25 and 26 May 2020. Red rainstorm warning signal was also issued by the Hong Kong Observatory on 25 May 2020. During the sampling event, no other sources (e.g. (e.g. Clearwater Bay Country Park) was identified in the vicinity of surface water channel leading to DP6 which might cause the SS exceedance at DP6. Contaminated runoff from the haul road and other unpaved areas during the previous rainfall events could be the potential source of SS contributing to the exceedance. The SS exceedance at DP6 was therefore deemed to Project-related activities.</p> <p>It should be noted that although the measured SS level exceeded the limit level of the EM&amp;A programme, it is still well within the WPCO effluent discharge limit of SS for the Junk Bay Water Control Zone (30 mg/L). The discharge of surface water with this SS level from DP6 will not cause adverse water quality impact to the Junk Bay Water Control Zone.</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 Level.</p> <p>In addition, the Contractor is reminded to compact the exposed soil at the site to minimise SS runoff and review the treatment capacity and the number of the Wetseps to ensure all surface water is treated before discharge at DP4T and DP6.</p>
Remarks	-

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