

Annex 3A-4 Calculation of Odour Emission Rate in TSTP

Facilities	NO. (A)	Surface Area (B) (m ²)	Total Surface Area (A) x (B) = (C) (m ²)	Emission Rate ⁽¹⁾ (ou/m ² /s)	Emission Rates (ou/s)	Emission Location	Total Odour Emission in each location (H ₂ S at inlet)		Emission Rate after odor removal efficiency	
							(ou/s)	removal efficiency %	(ou/s)	
Packaged pretreatment plant	3	21.88	65.60	8.79	576.62	TSTP No.1	TSTP No. 1	3,450.43	99.50	17.25
Salnes filter	3	4.61	13.80	8.79	121.30	TSTP No.1				
EQ. tank 1	1	67.64	67.60	8.79	594.20	TSTP No.1				
EQ. tank 2	1	125.85	125.90	8.79	1,106.66	TSTP No.1				
Lifting pumping station	1	7.77	7.80	8.79	68.56	TSTP No.1				
Steel oxic tank	6	10.44	62.64	8.79	550.61	TSTP No.1				
Steel DAF tank	3	16.40	49.20	8.79	432.47	TSTP No.1				
sludge holding tank	1	5.83	5.80	26.40	153.12	TSTP No.2	TSTP No. 2	153.12	99.50	0.77

Note:

(1) The emission calculation for the odour source was in accordance with the odour assessment presented in Approved Environmental Impact Assessment of the Upgrading of Cheung Chau Sewage Collection, Treatment and Disposal Facilities and Harbour Area Treatment.