

Appendix I

Water Demand Assessment

Water Demand Assessment

The fresh water and flushing water demands for the proposed development are estimated based on the residential population and land of use of the Site. The breakdowns of the demand projection are presented in below table.

Development Type	Population Head/ Area (m ²)	Freshwater				Flushing Water		
		Unit Demand	Service Trade	Water Demand	10% contingency	Unit Demand	Water Demand	10% contingency
		(m3/ head/ day)	(m3/ head/ day)	(m3/ day)	(m3/ day)	(m3/ head/ day)	(m3/ day)	(m3/ day)
Domestic	360	0.39	0.05	158.40	174.24	0.07	25.2	27.72
Clubhouse	6	0.28	--	1.68	1.85	0.07	0.42	0.46
Swimming Pool	--	--	--	337.5	--	--	--	--
Irrigation	1523.04	--	0.07	106.61	117.27	--	--	--
			Total	604.19	630.86	--	25.62	28.18
			Total Fresh Water Demand (Excl. FS)	659.04				
Fire Service	--	--	--	6000	--	--	--	--
			Total Fresh Water Demand (Incl. FS)	6,659.04				

It is prepared in accordance with WSD's DI No.1309 and Manual of Mainlaying Practice 2012.

The fire-fighting requirement for residential zone is 6000m³/d according to Departmental Instruction No.1309, WSD