

Table 6-5 Wastewater Sampling Results from Existing Markets

Locations & Activities	TN (mg/L)	TP (mg/L)	COD (mg/L)	BOD (mg/L)	SS (mg/L)	Oil & Grease (mg/L)	pH
CSW Temporary Poultry Market Floor Washing	350	78	3400	1450	2,000	240	-
CSW Temporary Poultry Market Crate Washing	130	20	810	300	410	-	-
CSWWM Phase I Operation Sources (including floor washing)	22	1.9	140	62	200	-	-
CSWWM Phase I - Egg Market Operation Sources	-	-	120	47	1,900	-	9
CSWWM Phase I - Vegetable Market Operation Sources (including floor washing)	6	0.4	50	13.5	20	25	6

Floor Washing Estimation

6.4.5 Discharge flow rate of floor washing mainly depends on washing frequency and floor area. Based on the figures provided by ASD for the proposed fruit market as shown in Table 6-6, effluent flow rates for the proposed freshwater fish, egg, vegetable markets, VMO, FMO and slaughter house are projected.

Table 6-6 Estimated Effluent Flow Rate for Proposed Poultry and Fruit Markets by ASD

Locations	Floor washing (Frequency / day)	Floor washing (m ³ /day)
Poultry Markets	2	300
Fruit Market	1 per week	216

6.4.6 Predicted pollution loading of floor washing for each individual market is based on the sampling results in Table 6-5. Pollution loading for the floor washing of the slaughter house in the loading/unloading area is conservatively assumed to be the same as the poultry market, whereas the projection for fruit market was based on figures of the vegetable market. Table 6-7 summarises the estimated flow rate and pollution loading of floor washing.

Table 6-7 Estimated Flow Rate and Pollution Loading for Floor Washing

Locations	Flow Rate (m ³ /day)	TN (mg/L)	TP (mg/L)	COD (mg/L)	BOD (mg/L)	SS (mg/L)	Oil & Grease (mg/L)
Poultry Market 1 & 2	300	350	78	3,400	1,450	2,000	240
Vegetable Market	19	6	0.4	50	13.5	20	25
Fruit Market 1 & 2	31	6	0.4	50	13.5	20	25
Fish Market	71	22	1.9	140	62	200	25
Slaughter House (applicable for both manual and centralised slaughter house)	149	350	78	3,400	1,450	2,000	240
Egg Market	11	-	-	120	47	1,900	-
Market Operated by VMO	10	6	0.4	50	13.5	20	25
Market Operated by FMO	33	22	1.9	140	62	200	25
Total (Poultry Markets & Slaughter House)	449	350	78	3,400	1,450	2,000	240
Total (Other Markets)	174	15	1	108	44	245	23

Trade Effluent Estimation

6.4.7 Effluent discharge flow rates from each of the proposed egg, vegetable, VMO and FMO markets is expected to be similar to that of the proposed fruit market as stated in Table 6-6. The fruit market effluent discharge flow rate therefore has been applied to the egg, vegetable, VMO and FMO markets in the proposed Market Complex.