

C.4 Quantity of Storm Water Discharge

Stormwater flow rates were calculated using the *Rules Relating to Storm Drainage Standards* (City and County of Honolulu, 2000) for drainage areas of 100 acres or less. A storm recurrence interval of 25 years was used to estimate the quantity of runoff.

Table 2-1

Site Number	On-Site Disturbed Area Runoff (cfs)
PID 1501	13.62
Pearl City Baseyard	26.51
PID 467	8.08
Total	48.21

Table 2-1 summarizes stormwater runoff quantities calculated for each of the 3 project sites (**Tables 2-2** and **2-3** show the values used to determine these runoff quantities). The disturbed area runoff accounts for the anticipated storage/staging area.

Project Site 1 – PID 1501

Table 2-2

Description	Runoff Coefficient	Rainfall Intensity (in/hr)	Exposed Area (ac)	Flow Rate (cfs)
On-Site Disturbed Area	0.67	6.37	3.19	13.62

Project Site 2 – Pearl City Baseyard

Table 2-3

Description	Runoff Coefficient	Rainfall Intensity (in/hr)	Exposed Area (ac)	Flow Rate (cfs)
On-Site Disturbed Area	0.80	5.32	6.23	26.51

*Runoff quantities for Pearl City Baseyard are based off stormwater discharged onto the site from the existing overpass and uncovered areas of the site.

Project Site 3 – PID 467

Table 2-4

Description	Runoff Coefficient	Rainfall Intensity (in/hr)	Exposed Area (ac)	Flow Rate (cfs)
On-Site Disturbed Area	0.89	6.30	1.44	8.08