

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: **Pond 1**

Facility Location & Jurisdiction: **Bradley Point Filing No. 1**

User Input: Watershed Characteristics

Watershed Slope =	<input type="text" value="0.010"/>	ft/ft
Watershed Length =	<input type="text" value="1370"/>	ft
Watershed Area =	<input type="text" value="8.97"/>	acres
Watershed Imperviousness =	<input type="text" value="33.3%"/>	percent
Percentage Hydrologic Soil Group A =	<input type="text" value="100.0%"/>	percent
Percentage Hydrologic Soil Group B =	<input type="text" value="0.0%"/>	percent
Percentage Hydrologic Soil Groups C/D =	<input type="text" value="0.0%"/>	percent
Location for 1-hr Rainfall Depths (use dropdown):		

User Input ▼

WQCV Treatment Method = Extended Detention ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	10	0.00	0.00
0.25	56	0.25	0.01
0.50	103	0.50	0.01
0.75	149	0.75	0.01
1.00	195	1.00	0.02
1.25	1,434	1.25	0.02
1.50	2,673	1.50	0.03
1.75	3,912	1.75	0.03
2.00	5,151	2.00	0.04
2.25	10,701	2.25	0.06
2.50	16,252	2.50	0.05
2.75	21,802	2.75	0.06
3.00	27,353	3.00	2.65
3.25	37,989	3.25	15.00

After completing and printing this worksheet to a pdf, go to: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif> create a new stormwater facility, and attach the pdf of this worksheet to that record.

Routed Hydrograph Results

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.50	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.121	0.184	0.256	0.349	0.706	0.889	acre-ft
OPTIONAL Override Runoff Volume =	0.12	0.12	0.17	0.22	0.50	0.70	acre-ft
Inflow Hydrograph Volume =	0.121	0.117	0.167	0.214	0.503	0.699	acre-ft
Time to Drain 97% of Inflow Volume =	38.2	37.5	47.3	57.7	74.4	72.2	hours
Time to Drain 99% of Inflow Volume =	40.0	39.3	49.4	60.3	79.7	78.8	hours
Maximum Ponding Depth =	2.25	2.24	2.41	2.54	2.91	3.03	ft
Maximum Ponded Area =	0.25	0.24	0.33	0.39	0.58	0.65	acres
Maximum Volume Stored =	0.109	0.105	0.155	0.202	0.381	0.452	acre-ft

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