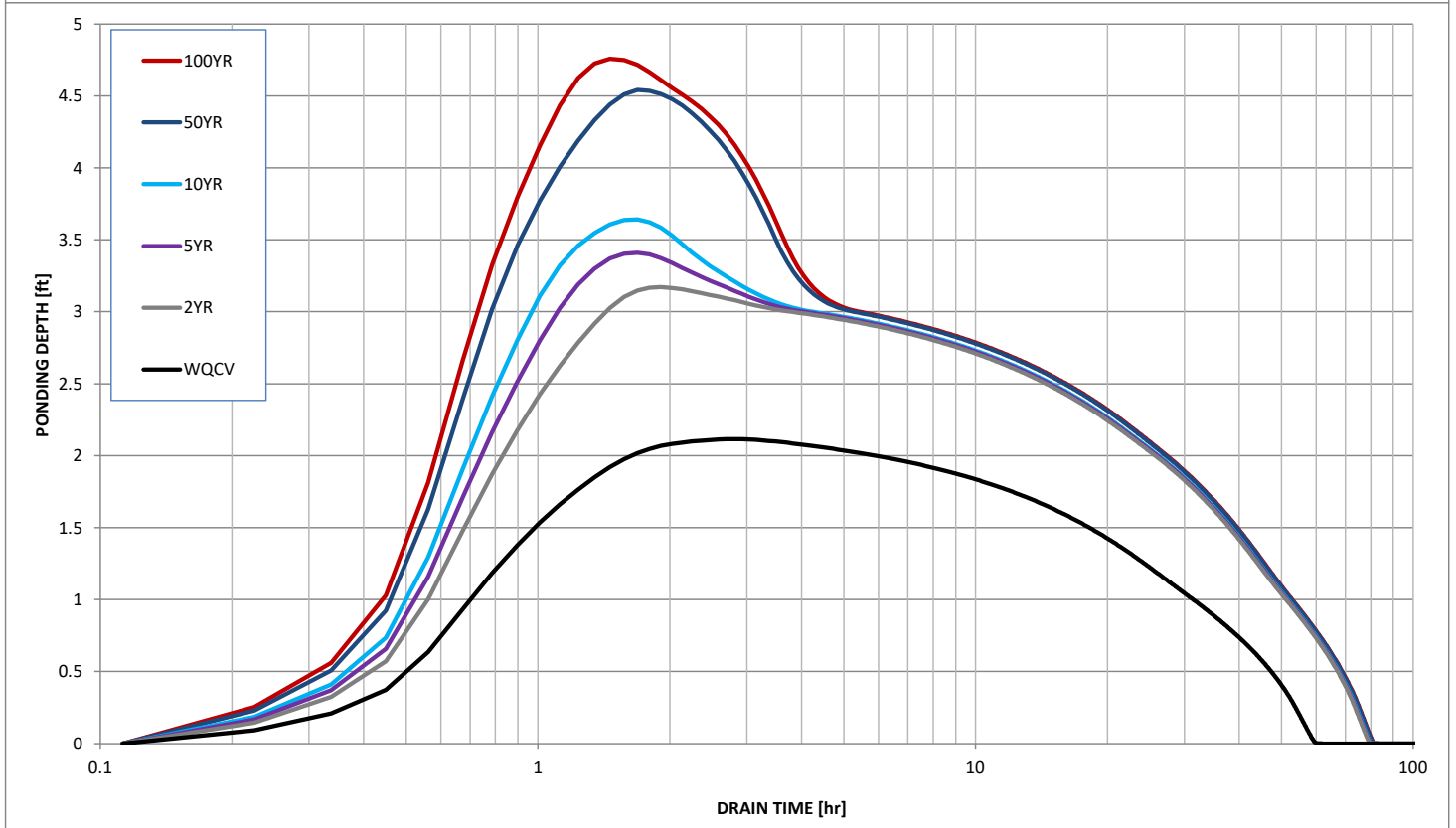
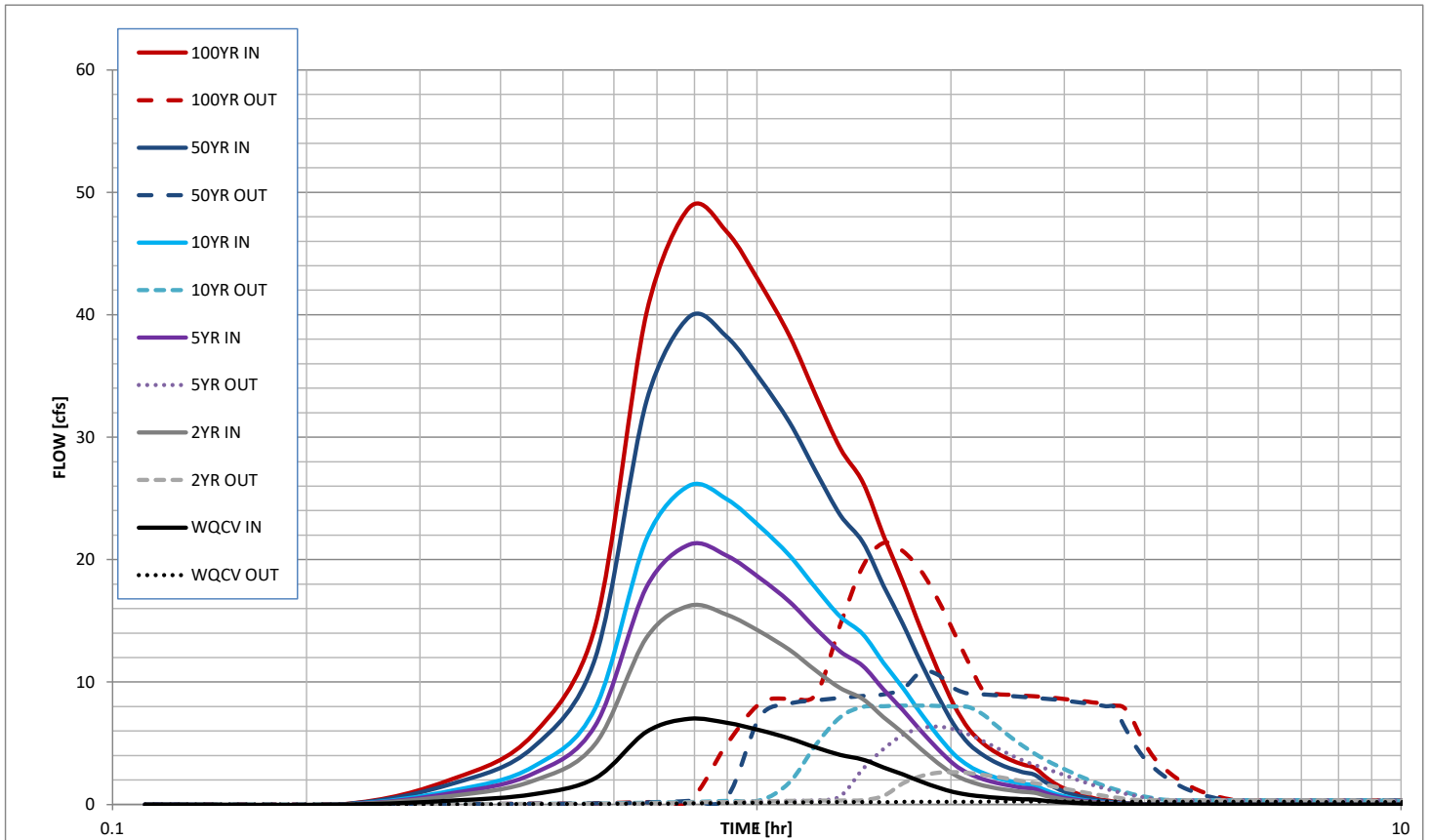
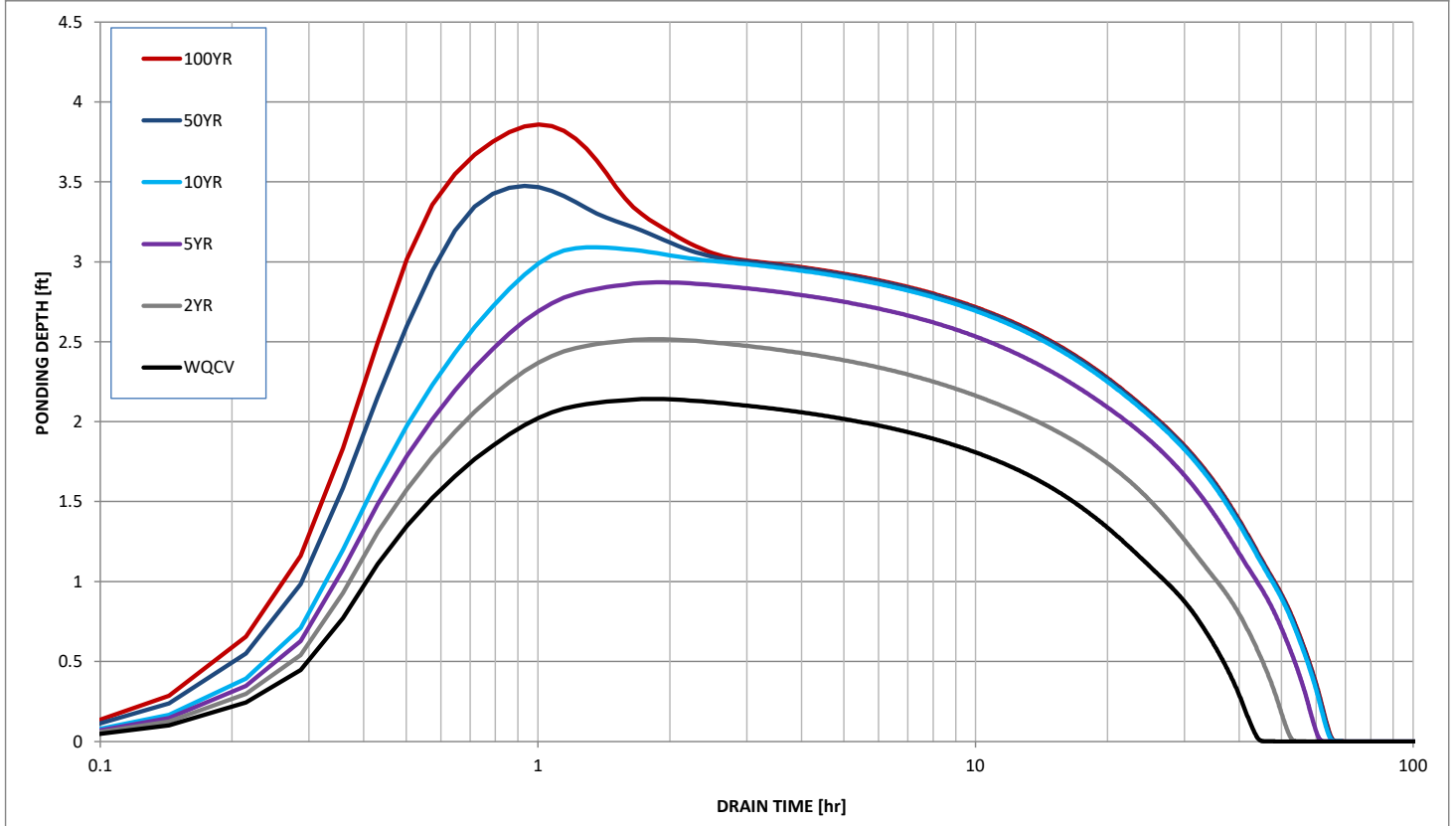
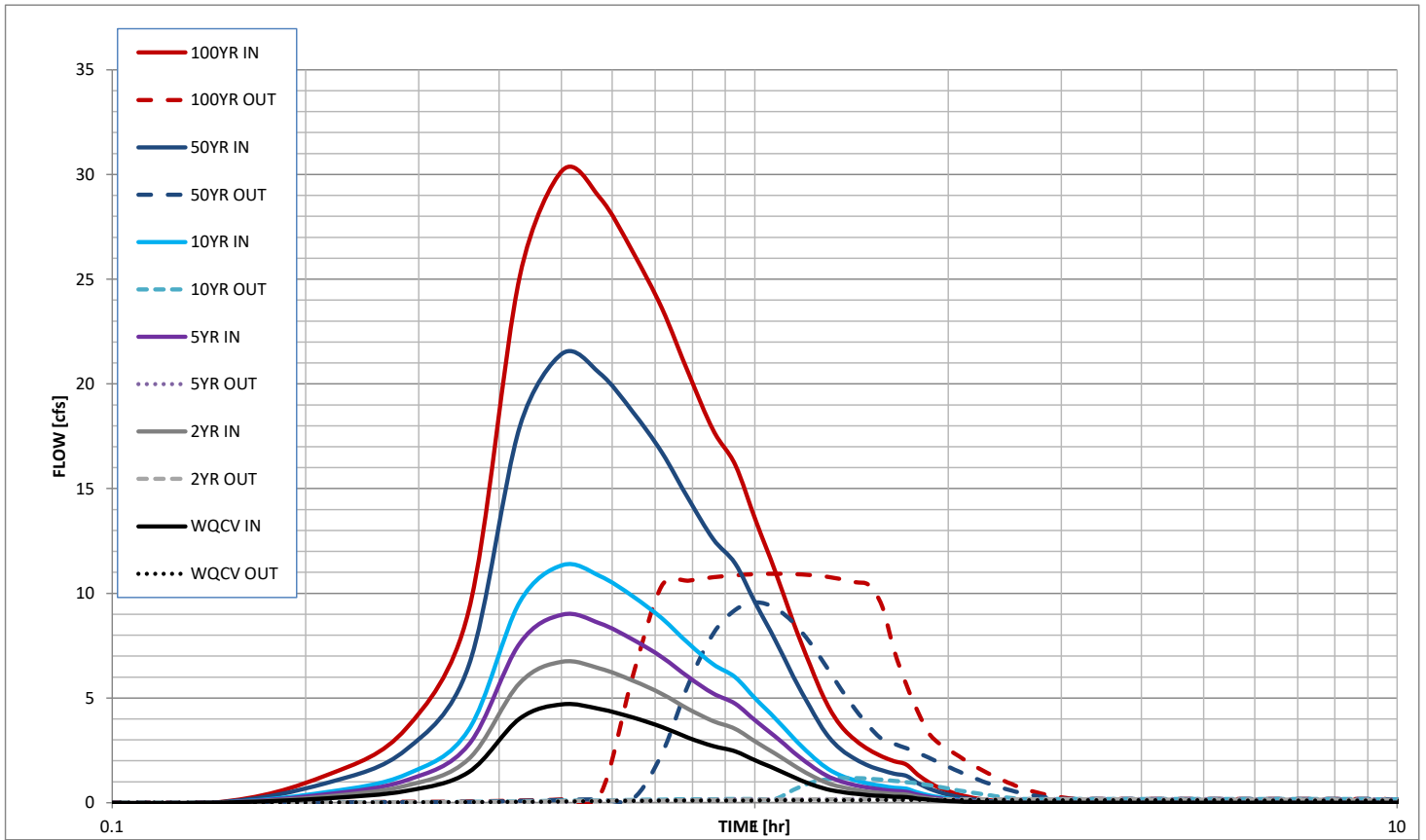


Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Waterbury Filing No. 1 & 2 EDB Pond 3 DP 29

Facility Location & Jurisdiction: Stapleton Dr. & Bandernero Dr Intersection

User Input: Watershed Characteristics

Watershed Slope = 0.022 ft/ft
 Watershed Length = 1900 ft
 Watershed Area = 82.44 acres
 Watershed Imperviousness = 49.0% percent
 Percentage Hydrologic Soil Group A = 100.0% percent
 Percentage Hydrologic Soil Group B = 0.0% percent
 Percentage Hydrologic Soil Groups C/D = 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	100	0.00	0.00
0.25	2,785	0.25	0.10
0.50	5,470	0.50	0.14
0.75	8,155	0.75	0.18
1.00	10,840	1.00	0.20
1.25	13,525	1.25	0.23
1.50	16,210	1.50	0.25
1.75	18,895	1.75	0.37
2.00	21,580	2.00	0.43
2.25	26,334	2.25	0.48
2.50	31,088	2.50	0.53
2.75	35,842	2.75	0.57
3.00	40,596	3.00	0.60
3.25	45,330	3.25	0.73
3.50	50,105	3.50	0.81
3.75	54,895	3.75	0.87
4.00	59,613	4.00	0.93
4.25	62,301	4.25	0.98
4.50	64,989	4.50	1.03
4.75	67,677	4.75	4.39
5.00	70,365	5.00	14.71
5.25	73,504	5.25	28.91
5.50	75,742	5.50	46.13
5.75	78,430	5.75	60.71
6.00	81,118	6.00	62.35
6.25	82,113	6.25	74.47
6.50	83,503	6.50	111.77
6.75	84,696	6.75	163.81
7.00	85,888	7.00	227.74
7.25	87,081	7.25	302.17
7.50	88,274	7.50	386.27
7.75	89,466	7.75	479.48
8.00	90,659	8.00	581.41

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 =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	1.398	3.156	4.151	5.117	8.003	9.913	acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	1.397	3.155	4.151	5.111	7.999	9.910	acre-ft
Time to Drain 97% of Inflow Volume =	41.7	61.8	62.5	61.0	56.7	54.1	hours
Time to Drain 99% of Inflow Volume =	44.2	66.4	68.1	67.6	65.8	64.7	hours
Maximum Ponding Depth =	3.12	4.47	4.88	5.15	5.77	6.26	ft
Maximum Poned Area =	0.98	1.48	1.58	1.66	1.80	1.89	acres
Maximum Volume Stored =	1.316	3.019	3.647	4.089	5.164	6.075	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

