Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: **Detention Basin B**

Facility Location & Jurisdiction: **Eagle Forest Subdivision, El Paso County, CO**

User Input: Watershed Characteristics

Watershed Slope =	0.026	ft/ft
Watershed Length =	850	ft
Watershed Area =	8.60	acres
Watershed Imperviousness =	7.0%	percent
Percentage Hydrologic Soil Group A =		percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =		percent

Location for 1-hr Rainfall Depths (use dropdown):

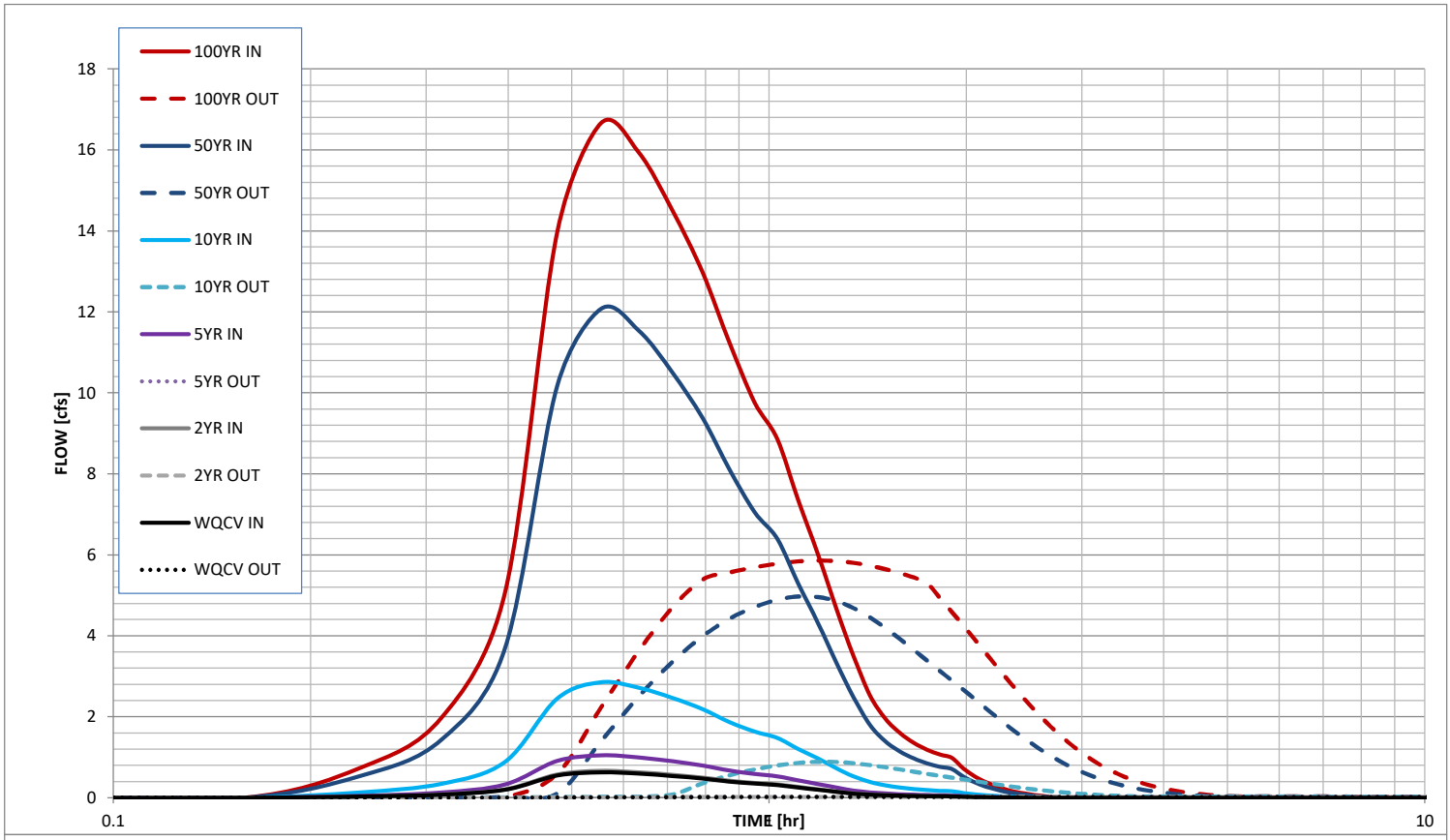
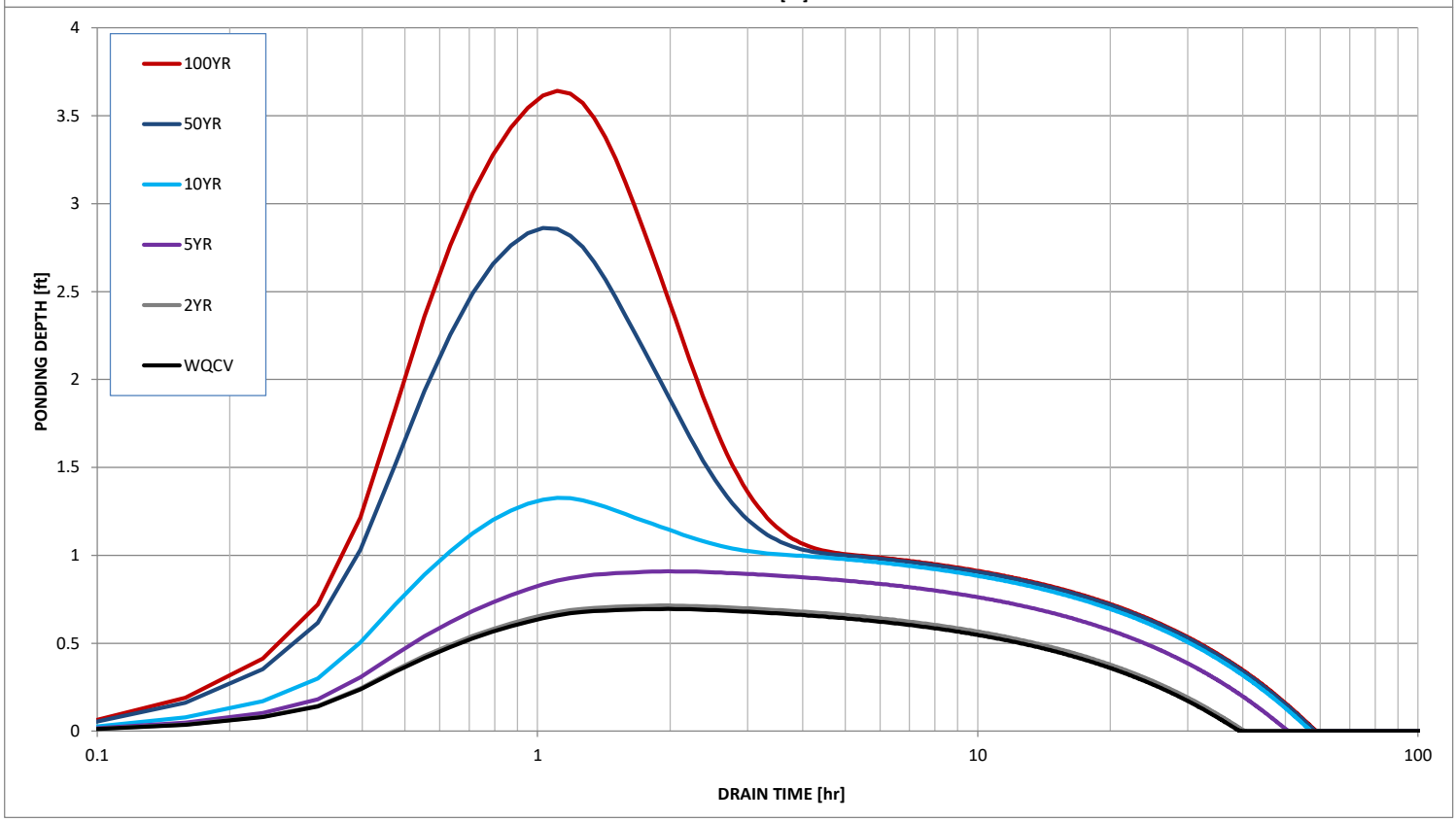
User Input

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
1.00	5,726	1.00	0.03
3.00	8,427	3.00	5.34
4.00	9,834	4.00	6.15
6.00	13,000	6.00	95.75

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

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.035	0.036	0.058	0.161	0.692	0.958	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.034	0.036	0.058	0.160	0.692	0.958	acre-ft
Time to Drain 97% of Inflow Volume =	32.6	33.4	**42.0**	42.6	28.3	23.3	hours
Time to Drain 99% of Inflow Volume =	35.4	36.4	45.7	48.7	40.9	**38.2**	hours
Maximum Ponding Depth =	0.69	0.71	0.91	1.33	2.86	3.64	ft
Maximum Ponded Area =	0.09	0.09	0.12	0.14	0.19	**0.21**	acres
Maximum Volume Stored =	0.031	0.033	0.054	0.109	0.363	0.521	acre-ft

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