

SDI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **Colorado Springs, El Paso County**

Sand Filter (SF)	SF	
Watershed Area =	1.23	acres
Watershed Length =	472	ft
Watershed Length to Centroid =	300	ft
Watershed Slope =	0.025	ft/ft
Watershed Imperviousness =	58.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours

User Input

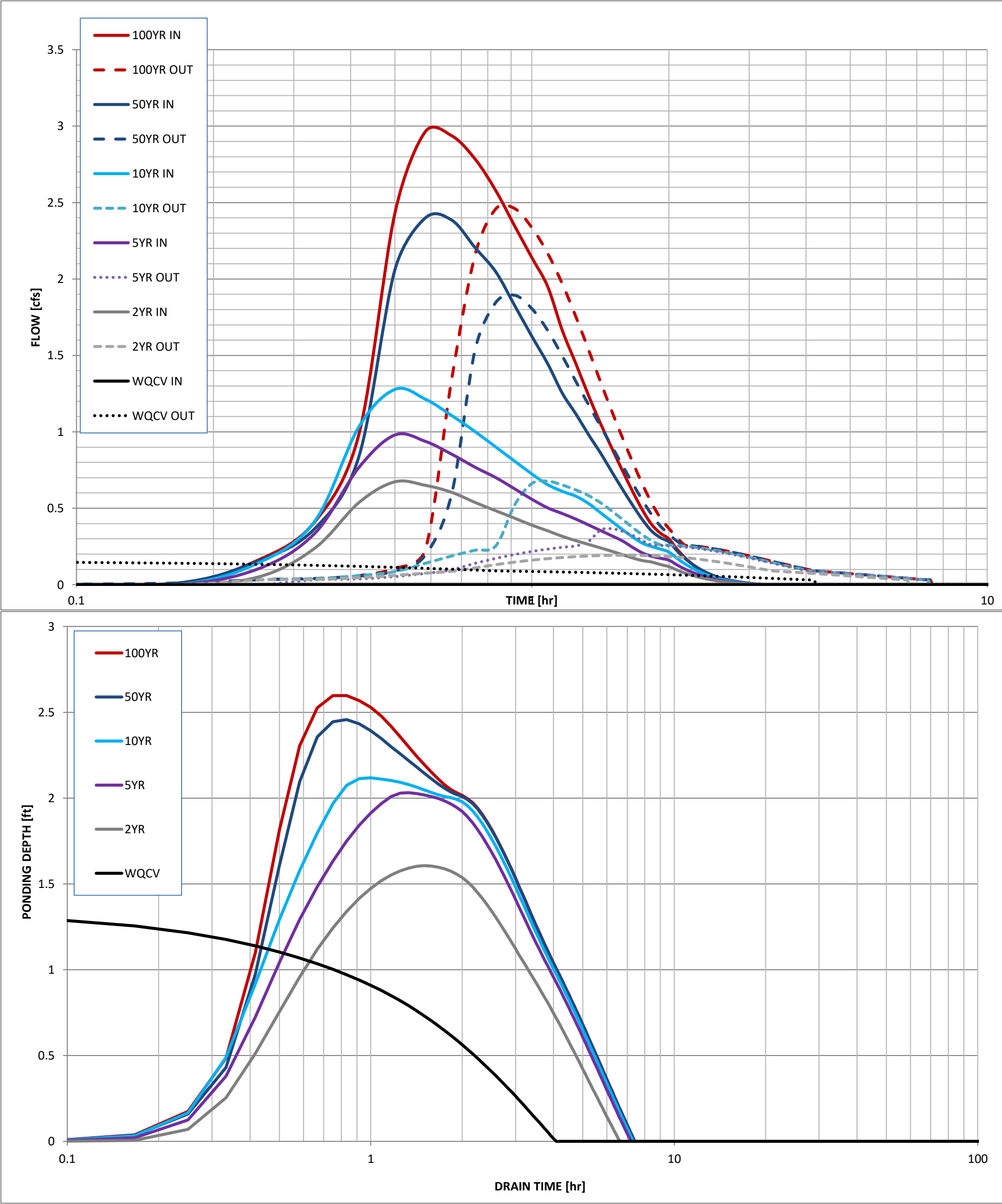
Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[illegible]

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	N/A	0.97	1.26	1.52	2.26	2.63	in
CUHP Runoff Volume =	0.024	0.052	0.075	0.098	0.177	0.219	acre-ft
Inflow Hydrograph Volume =	N/A	0.052	0.075	0.098	0.177	0.219	acre-ft
Time to Drain 97% of Inflow Volume =	3.8	6.1	6.5	6.4	5.9	5.7	hours
Time to Drain 99% of Inflow Volume =	4.0	6.4	7.0	7.0	6.8	6.8	hours
Maximum Ponding Depth =	1.36	1.61	2.03	2.12	2.46	2.60	ft
Maximum Poned Area =	0.02	0.03	0.03	0.03	0.04	0.04	acres
Maximum Volume Stored =	0.024	0.030	0.041	0.044	0.055	0.060	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet

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Stormwater Facility Name: **Infiltration Area N**

Facility Location & Jurisdiction: **Colorado Springs, El Paso County**

User Input: Watershed Characteristics

Sand Filter (SF)	SF	
Watershed Area =	0.80	acres
Watershed Length =	204	ft
Watershed Length to Centroid =	102	ft
Watershed Slope =	0.024	ft/ft
Watershed Imperviousness =	57.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours

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

User Input	▼
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After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[illegible]

After completing and printing this worksheet to a pdf, go to:

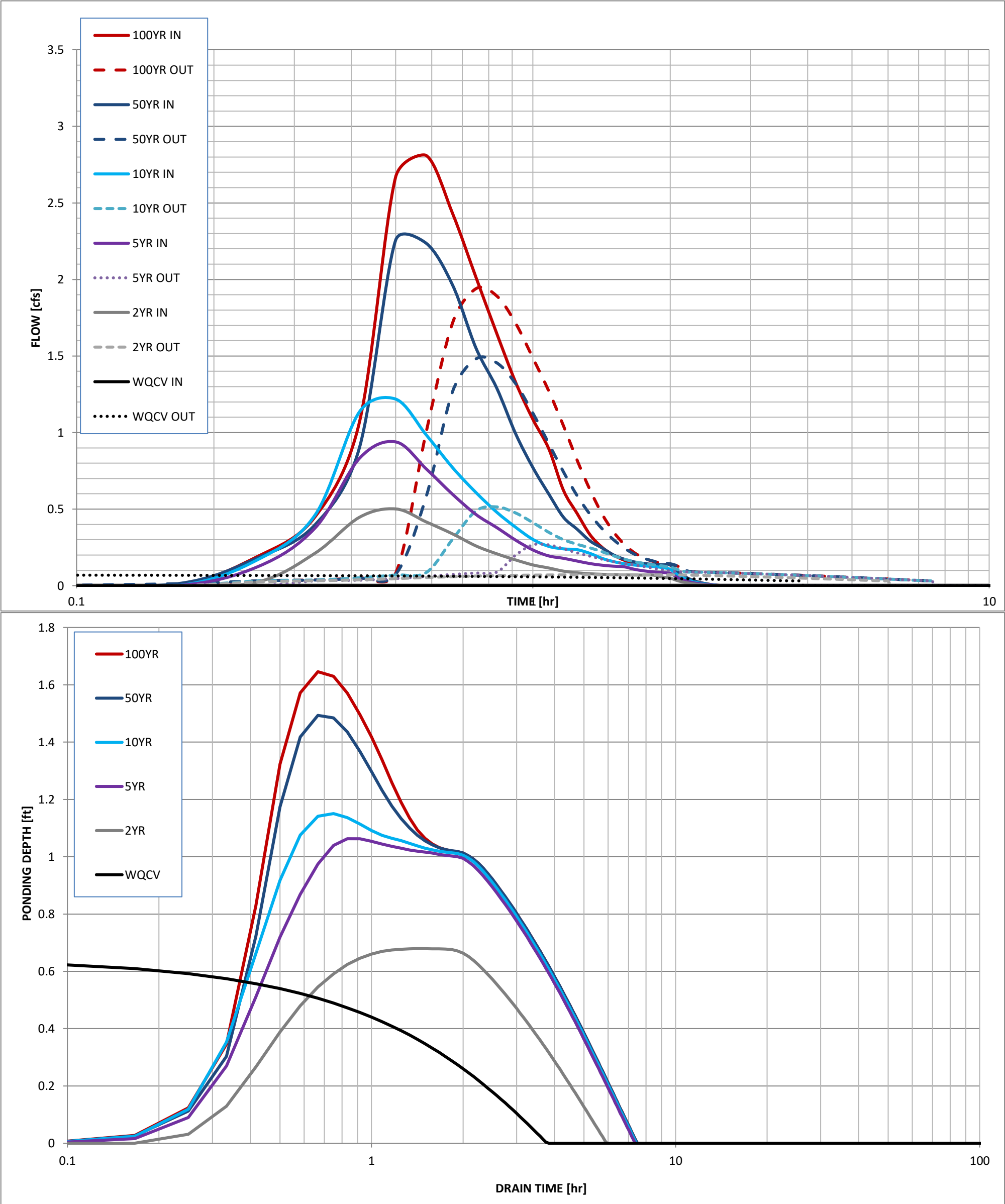
<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>

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 =	N/A	0.81	1.26	1.52	2.26	2.63	in
CUHP Runoff Volume =	0.015	0.025	0.046	0.060	0.109	0.135	acre-ft
Inflow Hydrograph Volume =	N/A	0.025	0.046	0.060	0.109	0.135	acre-ft
Time to Drain 97% of Inflow Volume =	3.7	5.7	6.9	6.8	6.4	6.2	hours
Time to Drain 99% of Inflow Volume =	3.8	5.8	7.3	7.3	7.1	7.0	hours
Maximum Ponding Depth =	0.66	0.68	1.06	1.15	1.49	1.65	ft
Maximum Poned Area =	0.03	0.03	0.03	0.03	0.04	0.04	acres
Maximum Volume Stored =	0.015	0.016	0.027	0.029	0.041	0.046	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



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Facility Location & Jurisdiction: **Colorado Springs, El Paso County**

Rain Garden (RG) - Bioretention	▼	RG	
Watershed Area =	1.30	acres	
Watershed Length =	415	ft	
Watershed Length to Centroid =	225	ft	
Watershed Slope =	0.024	ft/ft	
Watershed Imperviousness =	17.7%	percent	
Percentage Hydrologic Soil Group A =	0.0%	percent	
Percentage Hydrologic Soil Group B =	100.0%	percent	
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	
Target WQCV Drain Time =	12.0	hours	

User Input

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[illegible]

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	N/A	0.81	1.26	1.52	2.26	2.63	in
CUHP Runoff Volume =	0.009	0.010	0.029	0.048	0.132	0.178	acre-ft
Inflow Hydrograph Volume =	N/A	0.010	0.029	0.048	0.132	0.178	acre-ft
Time to Drain 97% of Inflow Volume =	2.8	3.5	7.0	8.8	8.2	7.8	hours
Time to Drain 99% of Inflow Volume =	2.8	3.6	7.2	9.2	9.1	9.0	hours
Maximum Ponding Depth =	0.31	0.12	0.60	1.00	1.07	1.08	ft
Maximum Poned Area =	0.03	0.03	0.03	0.03	0.03	0.03	acres
Maximum Volume Stored =	0.009	0.004	0.018	0.030	0.032	0.033	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

