

Solace of Colorado Springs (Lot 1)

- SDI Pond A
- SDI Pond B

SDI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **El Paso County**

Extended Detention Basin (EDB)		▼	EDB	
Watershed Area	=	7.89	acres	
Watershed Length	=	790	ft	
Watershed Length to Centroid	=	340	ft	
Watershed Slope	=	0.020	ft/ft	
Watershed Imperviousness	=	49.4%	percent	
Percentage Hydrologic Soil Group A	=	1.0%	percent	
Percentage Hydrologic Soil Group B	=	99.0%	percent	
Percentage Hydrologic Soil Groups C/D	=	0.0%	percent	
Target WQCV Drain Time	=	40.0	hours	

User Input

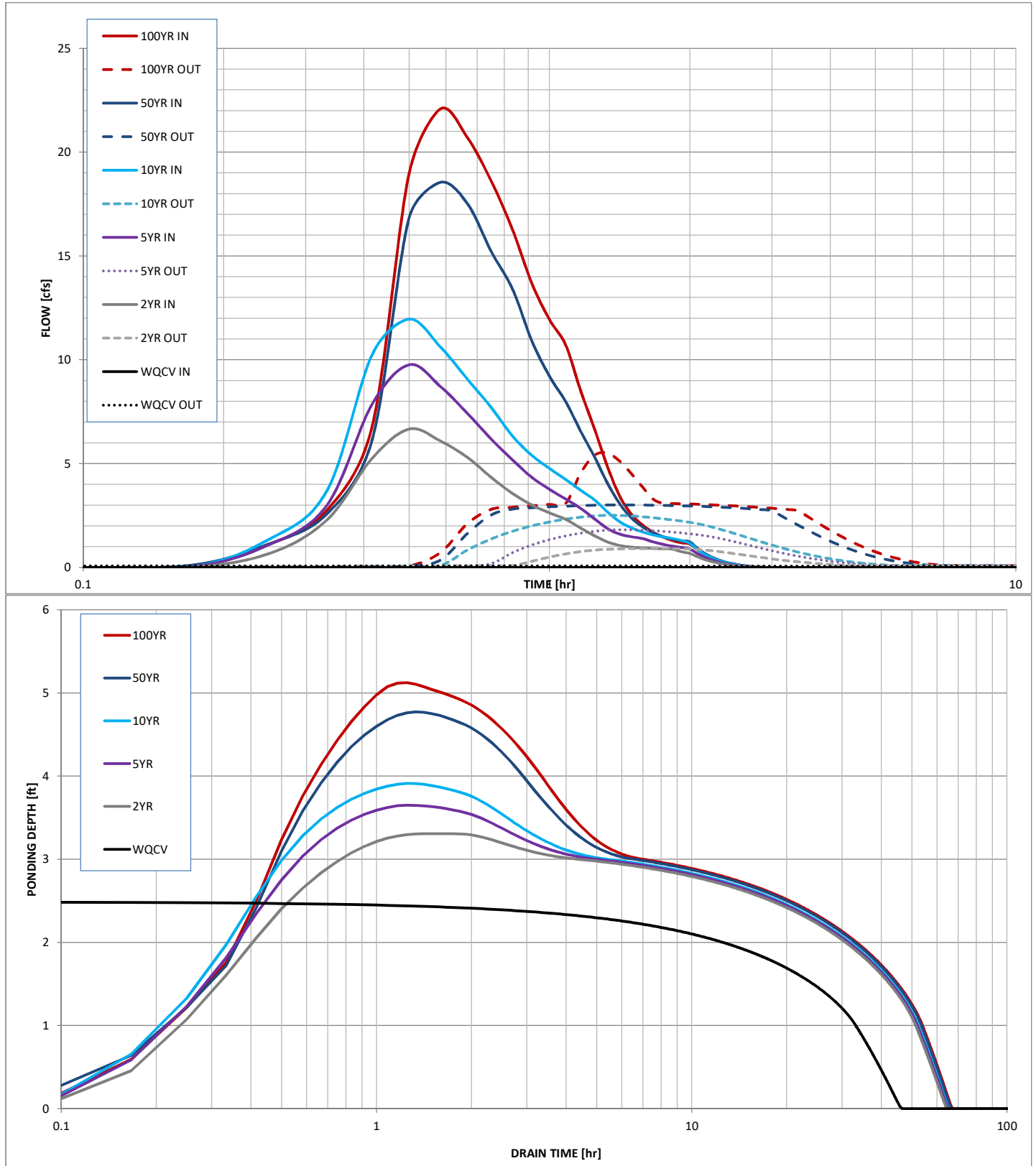
Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

[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	1.19	1.50	1.75	2.26	2.52	in
CUHP Runoff Volume =	0.135	0.382	0.546	0.691	1.052	1.247	acre-ft
Inflow Hydrograph Volume =	N/A	0.382	0.546	0.691	1.052	1.247	acre-ft
Time to Drain 97% of Inflow Volume =	38.1	50.8	48.9	47.4	44.6	43.0	hours
Time to Drain 99% of Inflow Volume =	41.5	56.5	55.6	54.8	53.6	52.9	hours
Maximum Ponding Depth =	2.49	3.31	3.65	3.91	4.77	5.12	ft
Maximum Poned Area =	0.15	0.24	0.28	0.31	0.38	0.41	acres
Maximum Volume Stored =	0.135	0.294	0.381	0.460	0.758	0.899	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



SDI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **El Paso County**

Extended Detention Basin (EDB)		▼	EDB	
Watershed Area	=	17.50	acres	
Watershed Length	=	1,631	ft	
Watershed Length to Centroid	=	740	ft	
Watershed Slope	=	0.014	ft/ft	
Watershed Imperviousness	=	40.6%	percent	
Percentage Hydrologic Soil Group A	=	1.0%	percent	
Percentage Hydrologic Soil Group B	=	99.0%	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	1.19	1.50	1.75	2.26	2.52	in
CUHP Runoff Volume =	0.264	0.729	1.088	1.408	2.246	2.702	acre-ft
Inflow Hydrograph Volume =	N/A	0.729	1.088	1.408	2.246	2.702	acre-ft
Time to Drain 97% of Inflow Volume =	35.7	47.7	46.6	45.5	43.7	42.9	hours
Time to Drain 99% of Inflow Volume =	38.0	52.3	52.6	52.6	53.2	53.6	hours
Maximum Ponding Depth =	2.60	3.37	3.79	4.15	5.24	5.81	ft
Maximum Poned Area =	0.35	0.52	0.60	0.64	0.73	0.75	acres
Maximum Volume Stored =	0.265	0.608	0.843	1.066	1.810	2.238	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

