SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: Pond A2

These don't match the MHFD spreadsheet in the drainage report.

Facility Location & Jurisdiction: Overlook Filing No. 1- El Paso County

User In	put: Wate	ershed Cha	aracteristics
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Extended Detention Basin (EDB)	EDB	
Watershed Area =	61.98	acres
Watershed Length =	2,500	ft
Watershed Length to Centroid =	1,250	ft
Watershed Slope =	0.030	ft/ft
Watershed Imperviousness =	10.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.09	6 percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths (u	use dropdov	vn):
User Input		•

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'.

These drain times are signficantly different than what is reported in the drainage report. See comments there

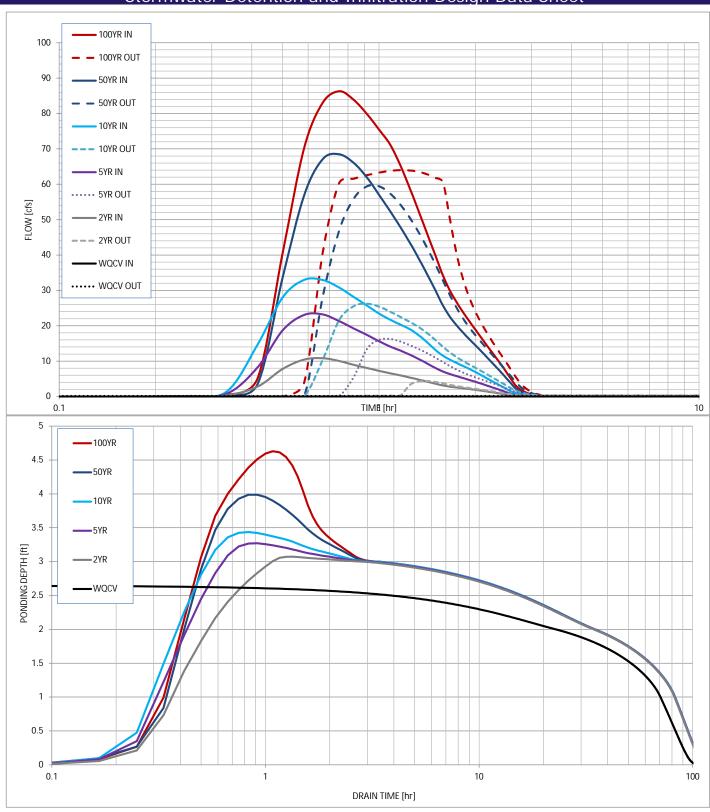
After completing and printing this worksheet to a pdf, go to: https://maperture.digitaldataservices.com/gvh/?viewer=cswdif Create a new stormwater facility, and attach the PDF of this worksheet to that record.

Routed Hydrograph Results

Design Storm Return Period =	WQCV /	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.346	0.827	1.827	2.824	5.814	7.559	acre-ft
Inflow Hydrograph Volume =	N/A	0.827	1.827	2.824	5.814	7.559	acre-ft
Time to Drain 97% of Inflow Volume =	79.0	80.4	66.3	54.8	28.3	21.4	hours
Time to Drain 99% of Inflow Volume =	87.3	92.5	84.6	78.9	65.1	58.2	hours
Maximum Ponding Depth =	2.65	3.07	3.27	3.44	3.99	4.63	ft
Maximum Ponded Area =	0.41	0.54	0.59	0.63	0.76	0.83	acres
Maximum Volume Stored =	0.346	0.550	0.662	0.764	1.144	1.658	acre-ft

User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
0.00	173	0.00	0.00
1.00	1,719	1.00	0.02
2.00	9,084	2.00	0.04
3.00	22,994	3.00	0.28
4.00	33,136	4.00	60.32
5.00	38,308	5.00	66.23
6.00	44,332	6.00	105.18
7.00	51,031	7.00	268.50





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Stormwater Facility Name: Pond B1

Facility Location & Jurisdiction: Overlook Filing No. 1- El Paso County

User Input: Watershed Characteristics

Extended Detention Basin (EDB)	•	EDB	
Watershed Area =	=[40.47	acres
Watershed Length =	=	3,000	ft
Watershed Length to Centroid =	=	1,500	ft
Watershed Slope =	=	0.045	ft/ft
Watershed Imperviousness =	=	10.0%	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 ((us	se dropdown)	
User Input		▼	

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

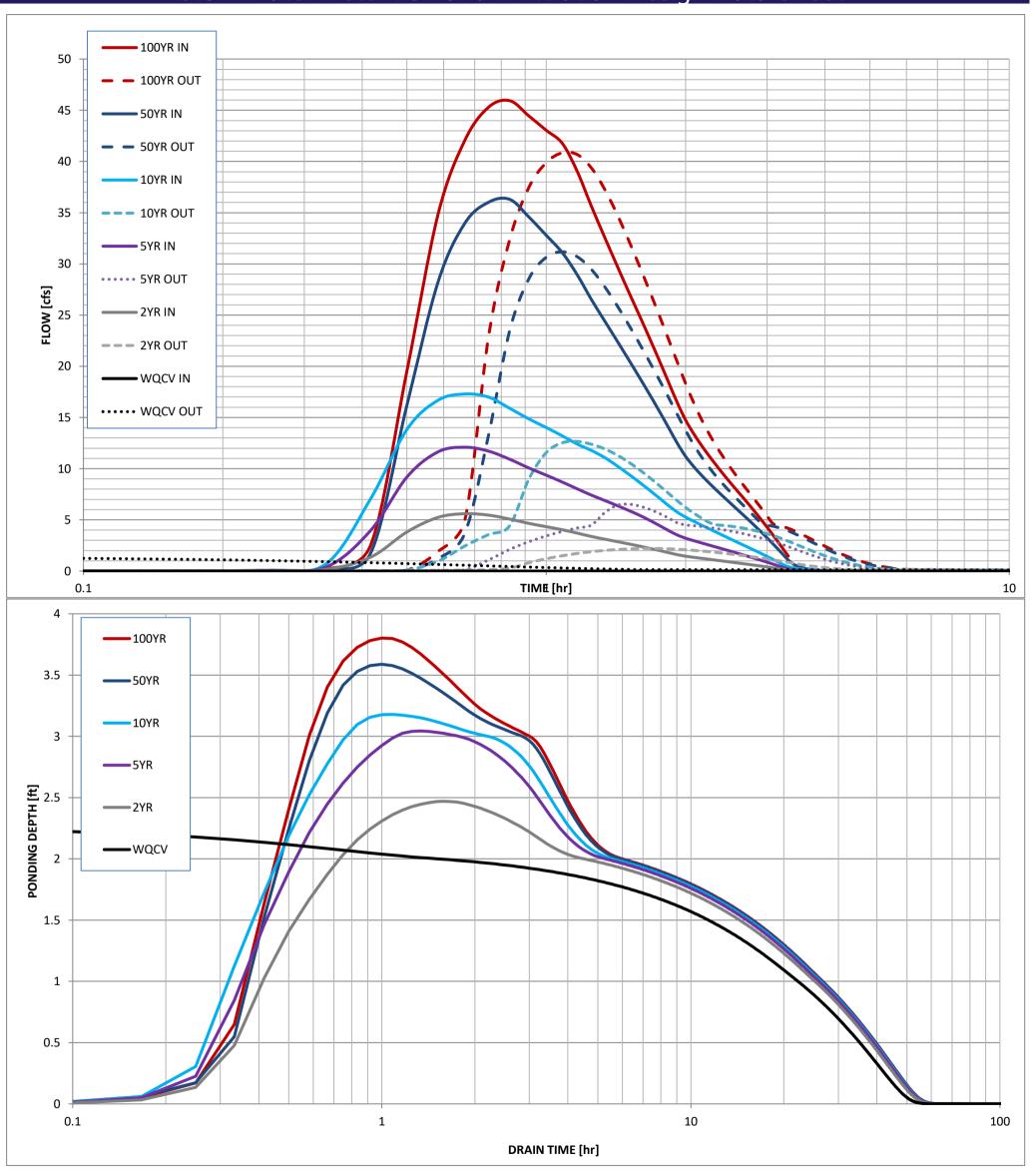
Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

User Defined	User Defined	User Defined	User Defined	
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]	
0.00	139	0.00	0.00	
1.00	1,816	1.00	0.02	
2.00	9,806	2.00	0.14	
3.00	20,473	3.00	4.54	
4.00	30,839	4.00	49.96	
5.00	38,709	5.00	155.07	
6.00	46,803	6.00	369.35	

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Routed Hydrograph Results

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Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	I
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.226	0.540	1.194	1.845	3.800	4.940	acre-ft
Inflow Hydrograph Volume =	N/A	0.540	1.194	1.845	3.800	4.940	acre-ft
Time to Drain 97% of Inflow Volume =	34.9	29.3	21.0	17.2	9.8	6.7	hours
Time to Drain 99% of Inflow Volume =	41.9	39.5	33.4	28.8	21.1	18.8	hours
Maximum Ponding Depth =	2.28	2.47	3.04	3.18	3.59	3.80	ft
Maximum Ponded Area =	0.29	0.34	0.48	0.51	0.61	0.66	acres
Maximum Volume Stored =	0.227	0.287	0.522	0.591	0.817	0.954	acre-ft



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Stormwater Facility Name: Pond B8

Facility Location & Jurisdiction: Overlook Filing No. 1- El Paso County

User Input: Watershed Characteristics

Extended Detention Basin (EDB)	EDB	
Watershed Area =	62.83	acres
Watershed Length =	4,000	ft
Watershed Length to Centroid =	2,000	ft
Watershed Slope =	0.050	ft/ft
Watershed Imperviousness =	9.0%	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 (u	se dropdown):	ı
User Input	•	

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'.

User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
0.00	180	0.00	0.00
1.00	812	1.00	0.02
2.00	7,385	2.00	0.12
3.00	21,644	3.00	0.26
4.00	30,169	4.00	28.81
5.00	35,429	5.00	36.64
6.00	40,734	6.00	48.62
7.00	46,264	7.00	177.29
8.00	48,000	8.00	409.63

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

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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	2.25	2.52	in
CUHP Runoff Volume =	0.321	0.793	1.795	2.801	5.843	7.619	acre-ft
Inflow Hydrograph Volume =	N/A	0.793	1.795	2.801	5.843	7.619	acre-ft
Time to Drain 97% of Inflow Volume =	31.9	36.1	30.8	27.3	19.2	15.6	hours
Time to Drain 99% of Inflow Volume =	37.8	42.6	37.9	35.6	30.6	28.3	hours
Maximum Ponding Depth =	2.75	3.11	3.40	3.65	4.79	5.58	ft
Maximum Ponded Area =	0.41	0.52	0.57	0.62	0.79	0.88	acres
Maximum Volume Stored =	0.323	0.490	0.646	0.797	1.610	2.265	acre-ft

