Stormwater Detention and Infiltration Design Data Sheet

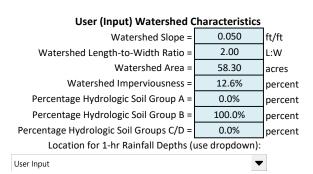
Workbook Protected

Worksheet Protected

Retreat at TimberRidge Filing No. 2 - Pond 3 **Stormwater Facility Name:**

Approx. 1700' Northeast of int. of Vollmer Rd. and Poco Rd., El Paso County

Facility Location & Jurisdiction:



User Input: Detention Basin Characteristics

WQCV Design Drain Time = 40.00 hours

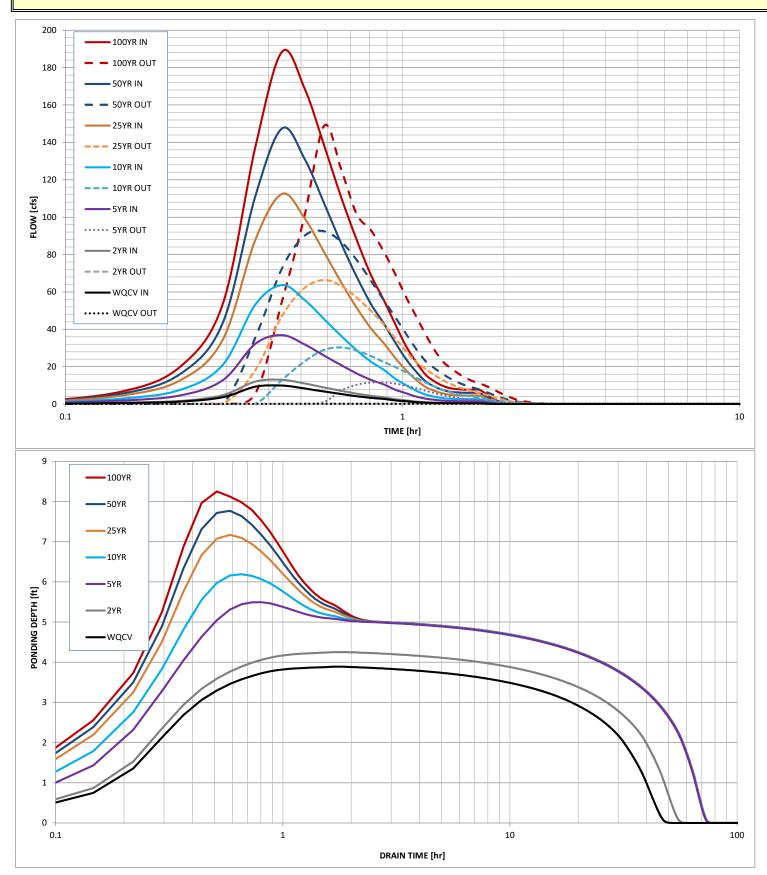
	User Defined	User Defined	User Defined	User Defined
	Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
	0.00	115	0.00	0.00
ſ	1.00	951	1.00	0.04
	2.00	2,623	2.00	0.08
	3.00	6,974	3.00	0.12
	4.00	14,005	4.00	0.18
	5.00	18,701	5.00	0.22
	6.00	21,062	6.00	23.55
	7.00	23,542	7.00	59.09
	8.00	26,140	8.00	102.46
	9.00	28,818	9.00	287.24
Γ				
ſ				
ſ				
ľ				
ľ				
ľ				
Ī				
ľ				
ľ				
ľ				
ľ				
ľ				
ľ				
ŀ				
ŀ				
L				

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	25 Year	50 Year	100 Year		
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in	
Calculated Runoff Volume =	0.390	0.513	1.461	2.519	4.423	5.795	7.407	acre-ft	
OPTIONAL Override Runoff Volume =								acre-ft	
Inflow Hydrograph Volume =	0.390	0.512	1.460	2.519	4.422	5.793	7.400	acre-ft	
Time to Drain 97% of Inflow Volume =	40	47	59	54	48	44	39	hours	
Time to Drain 99% of Inflow Volume =	43	51	65	62	59	57	55	hours	
Maximum Ponding Depth =	3.89	4.25	5.49	6.19	7.17	7.77	8.25	ft	
Maximum Ponded Area =	0.303	0.348	0.456	0.494	0.550	0.586	0.615	acres	
Maximum Volume Stored =	0.368	0.486	0.995	1.327	1.836	2.176	2.467	acre-ft	

SDI_Design_Data - Pond 3 rev, Design Data



Stormwater Detention and Infiltration Design Data Sheet