Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: Cole View Water Quality Pond

Facility Location & Jurisdiction: El Paso County, CO

User Input: Watershed Characteristics

Watershed Slope =	0.015	ft/ft
Watershed Length =	625	ft
Watershed Area =	1.83	acres
Watershed Imperviousness =	31.5%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

WQCV Treatment Method = N/A

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	10	0.00	0.00
0.50	10	0.50	0.00
1.50	742	1.50	0.01
2.50	1,135	2.50	0.01
3.50	1,609	3.50	0.01
4.50	2,150	4.50	10.04
5.00	2,749	5.00	27.75

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 =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =		0.039	0.052	0.066	0.117	0.158	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =		0.039	0.051	0.065	0.117	0.158	acre-ft
Time to Drain 97% of Inflow Volume =		51.0	**64.6**	79.0	75.7	73.6	hours
Time to Drain 99% of Inflow Volume =		54.8	68.6	83.5	81.6	**80.3**	hours
Maximum Ponding Depth =		2.74	3.13	3.51	3.61	3.67	ft
Maximum Ponded Area =		0.03	0.03	0.04	0.04	**0.04**	acres
Maximum Volume Stored =		0.037	0.049	0.062	0.066	0.068	acre-ft

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