Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Gateway Trucking - Proposed Full Spectrum EDB Basins (A-D)

Facility Location & Jurisdiction: East-side of S. Franceville Coal Mine - City of Colorado Springs, County of El Paso

User Input: Watershed Characteristics

0.060 Watershed Slope = ft/ft Watershed Length = 940 ft Watershed Area = 9.98 acres 41.4% Watershed Imperviousness = 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

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

User Input

WQCV Treatment Method = Extended Detention ▼

User Defined User Defined User Defined User Defined Stage [ft] Area [ft^2] Stage [ft] Discharge [cfs] 0.00 13 0.00 0.00 1.00 303 1.00 0.02 2.00 2,350 2.00 0.04 3.00 3.00 6,312 0.06 4.00 9,368 4.00 0.11 5.00 11,130 5.00 5.82 6.00 13,036 6.00 11.66 6.50 14,043 6.50 12.15

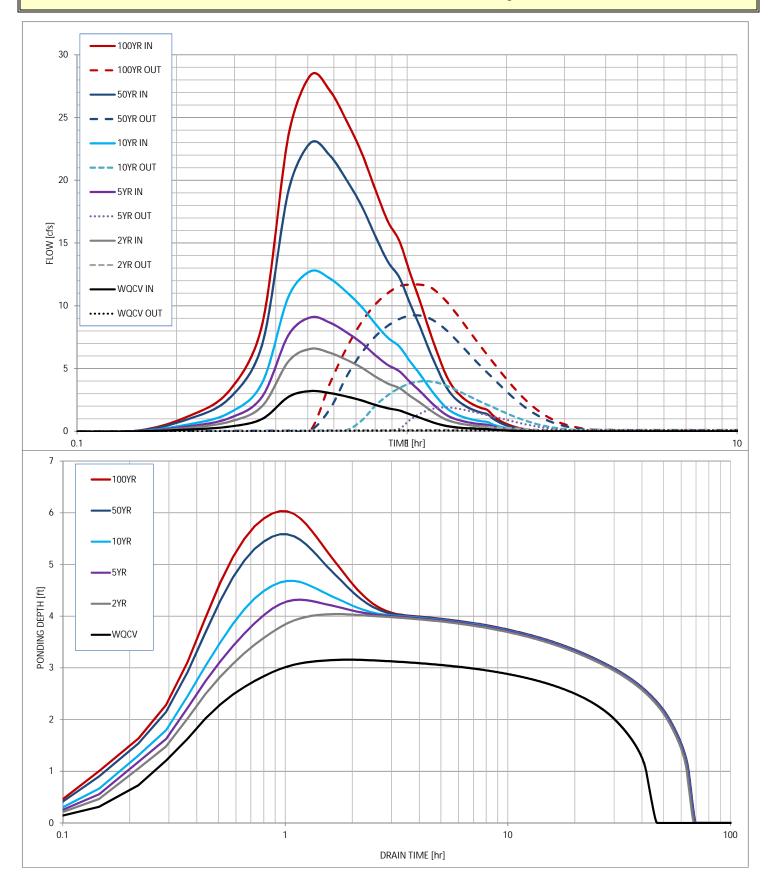
After completing and printing this worksheet to a pdf, go to: https://maperture.digitaldataservices.com/gvh/?viewer=cswdif create a new stormwater facility, and attach the pdf of this worksheet to that record.

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 =		1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.153	0.344	0.477	0.673	1.221	1.510	acre-ft
OPTIONAL Override Runoff Volume =	0.17						acre-ft
Inflow Hydrograph Volume =	0.166	0.344	0.477	0.672	1.220	1.510	acre-ft
Time to Drain 97% of Inflow Volume =	41.1	60.4	59.2	57.3	52.4	50.1	hours
Time to Drain 99% of Inflow Volume =	43.3	63.8	63.5	62.7	60.7	59.7	hours
Maximum Ponding Depth =	3.16	4.04	4.32	4.68	5.58	6.03	ft
Maximum Ponded Area =	0.16	0.22	0.23	0.24	0.28	0.30	acres
Maximum Volume Stored =	0.157	0.321	0.383	0.469	0.704	0.834	acre-ft

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