Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: **JeniShay Farms**

Facility Location & Jurisdiction: El Paso County

User Input: Watershed Characteristics

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Extended Detention Basin (EDB)	EDB	
Watershed Area =	5.13	acres
Watershed Length =	950	ft
Watershed Length to Centroid =	993	ft
Watershed Slope =	0.047	ft/ft
Watershed Imperviousness =	30.3%	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
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Note: Lc/L Ratio > 0.9 Lc / L Ratio = 1.05

User Defined User Defined User Defined User Defined Area [ft^2] Discharge [cfs] Stage [ft] Stage [ft] 0.00 485 0.00 0.00 1.00 1,050 1.00 747.00 1,945 2.00 2.00 2200.00 3.00 2,976 3.00 4749.00 4.00 4,258 4.00 8319.00 5.00 5,787 5.00 13295.00 6.00 7,480 6.00 19782.00 27068.00 6.90 8,711 6.90

Location for 1-hr Rainfall Depths (use 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'.

These numbers or units appear to be off. Revise to match UD Detention worksheet in Drainage Report

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.

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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	0.92	1.19	1.44	2.13	2.47	in
CUHP Runoff Volume =	0.065	0.096	0.154	0.232	0.543	0.712	acre-ft
Inflow Hydrograph Volume =	N/A	0.096	0.154	0.232	0.543	0.712	acre-ft
Time to Drain 97% of Inflow Volume =	>120	0.7	0.7	0.6	0.8	0.8	hours
Time to Drain 99% of Inflow Volume =	>120	0.7	0.7	0.6	0.8	0.8	hours
Maximum Ponding Depth =	1.81	0.00	0.00	0.00	0.00	0.00	ft
Maximum Ponded Area =	0.06	0.01	0.01	0.01	0.01	0.01	acres
Maximum Volume Stored =	0.065	0.000	0.000	0.000	0.000	0.000	acre-ft

Routed Hydrograph Results

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