

# Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected                      Worksheet Protected

**Stormwater Facility Name: Pond HNF2- Pond B**

**Facility Location & Jurisdiction: Sterling Ranch Sudivision, Vollmer Road, El Paso County / El Paso County**

**User Input: Watershed Characteristics**

Watershed Slope =  ft/ft

Watershed Length =  ft

Watershed Area =  acres

Watershed Imperviousness =  percent

Percentage Hydrologic Soil Group A =  percent

Percentage Hydrologic Soil Group B =  percent

Percentage Hydrologic Soil Groups C/D =  percent

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

WQC Treatment Method =  ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	10	0.00	0.00
0.33	49	0.33	0.04
0.41	65	0.41	0.04
1.41	3,181	1.41	0.08
2.41	12,986	2.41	0.16
3.41	18,085	3.41	0.21
4.41	21,210	4.41	0.57
5.41	24,408	5.41	0.85
6.41	27,857	6.41	28.75
7.41	31,439	7.41	53.07
8.41	35,190	8.41	348.44
9.41	37,675	9.41	844.57

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**

	WQC	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.442	1.068	1.711	2.260	3.723	4.472	acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	0.442	1.067	1.711	2.259	3.722	4.472	acre-ft
Time to Drain 97% of Inflow Volume =	37.5	58.6	65.5	63.5	59.0	57.0	hours
Time to Drain 99% of Inflow Volume =	39.3	62.4	70.8	70.0	67.8	66.7	hours
Maximum Ponding Depth =	2.99	4.36	5.44	5.79	6.58	6.97	ft
Maximum Poned Area =	0.37	0.48	0.56	0.59	0.65	0.68	acres
Maximum Volume Stored =	0.413	1.000	1.566	1.765	2.259	2.516	acre-ft

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