

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Latigo Trails Filing 9 - Pond G1

Facility Location & Jurisdiction: El Paso County, Colorado

User Input: Watershed Characteristics

Watershed Slope =	0.030	ft/ft
-------------------	-------	-------

Watershed Length =	1775	ft
--------------------	------	----

Watershed Area =	15.22	acres
------------------	-------	-------

Watershed Imperviousness =	17.7%	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

Extended Detention

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 =

One-Hour Rainfall Depth =

Calculated Runoff Volume =

OPTIONAL Override Runoff Volume =

Inflow Hydrograph Volume =

Time to Drain 97% of Inflow Volume =

Time to Drain 99% of Inflow Volume =

Maximum Ponding Depth =

Maximum Ponded Area =

Maximum Volume Stored =

in

acre-ft

acre-ft

acre-ft

hours

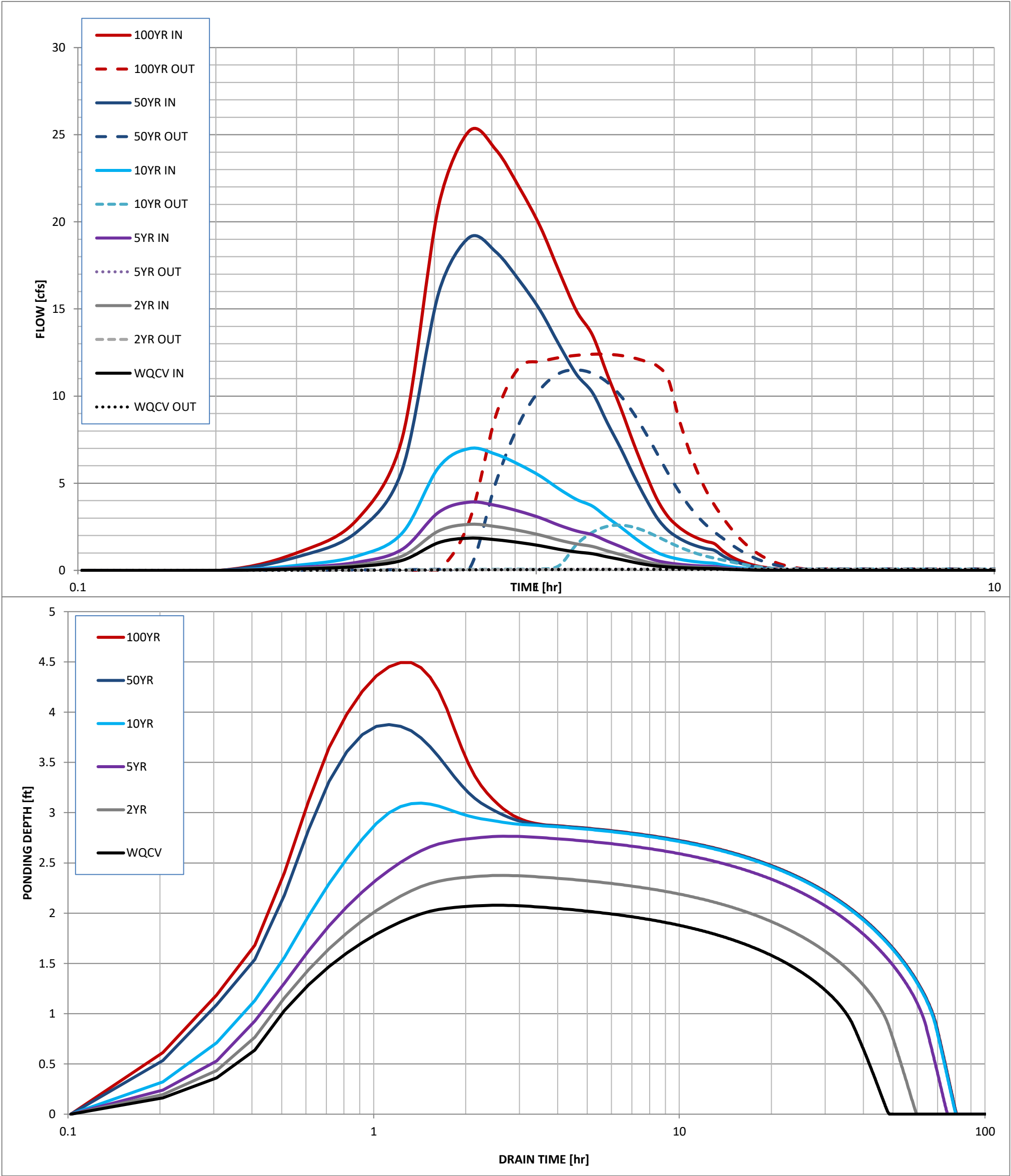
hours

1 ft

acres

acre-ft

Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

User Input: Watershed Characteristics

0.035

4610

237.10

13.8%

0.0%

100.0%

0.0%

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

User Input

Extended Detention [illegible]

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 =		1.726	2.240	3.395	6.713	21.047	28.290	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =		1.726	2.239	3.395	6.712	21.038	28.288	acre-ft
Time to Drain 97% of Inflow Volume =		31.8	31.5	30.6	27.9	17.4	12.6	hours
Time to Drain 99% of Inflow Volume =		33.4	33.4	33.3	32.4	28.1	26.2	hours
Maximum Ponding Depth =		3.97	4.22	4.72	5.70	7.49	7.99	ft
Maximum Poned Area =		0.97	1.04	1.19	1.49	2.01	2.14	acres
Maximum Volume Stored =		1.438	1.683	2.239	3.564	6.713	7.746	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

