

El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form

This document **must be completed and submitted** with required attachments to the County for projects requiring a detention and/or a water quality facility. A separate completed form must be submitted for each facility.

Project name:	Retreat at Time	perRidge Filir	ng No. 2				
Owner name:	TimberRidge D	evelopment (Group, LLC				
Location Addre	ss:						
N/A East	of the int. of Voll	mer Rd. and	Poco Rd.				
Latitude and Lo	ongitude:						
38.9794, -1	04.6627						
Assessor's Parc	el #: 52272-00-0)01 Se	ection: 27, 2	8 Tow	nship: 12S	Range: 65W	
Expected Comp	oletion date: 2022	2					
Project acreage	2: 75.829 Ac.	Design Po	onding Acres:	0.61	Design Storm	100 yr. 🚽	
Design Enginee	r Email Address:	Mwhorton@c	lassicconsu	lting.net			
Detention and	pliance with C.R.S. 3 Infiltration Design D ure.digitaldataservi	oata Sheet must	be attached.	The form car		gn Data Sheet)	
List all permane	ent water quality co	ntrol measure(s) (EDBs, rain	gardens, etc)	:		
Pond 3 - El	DB with associat	ed forebay, t	rickle chanr	el, micropo	ool and outlet b	ох	
For all projects	for which the const	rained redevel	opment sites s	tandard is ap	plied, provide an	explanation of why i	t is
not practicable	to meet the full des	sign standards.					
long-term obse maintenance ad	rvation, maintenan	ce, and operation, different wate	on of control I	neasure(s), ir	ncluding routine ir	procedures that ensunspection frequencient in the section frequencient in the section, a separation, a separation, a separation, a separation, a separation, a separation, a separation in the section is separation.	es and
	Detention Basin / S ressing maintenance		•	•		ce Agreement and the permanent BMP	'S.
Attachments:					Review Engineer C Project File No.	JR/CP	
Stormwater De O & M Plan	tention and Infiltrat	tion Design Data	a Sheet	EP	C Project File No.	SF-21-021	

Maintenance and Access Agreement

Stormwater Detention and Infiltration Design Data Sheet

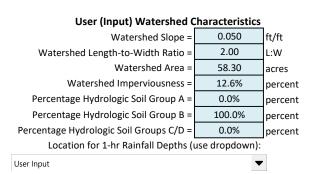
Workbook Protected

Worksheet Protected

Retreat at TimberRidge Filing No. 2 - Pond 3 **Stormwater Facility Name:**

Approx. 1700' Northeast of int. of Vollmer Rd. and Poco Rd., El Paso County

Facility Location & Jurisdiction:



User Input: Detention Basin Characteristics

WQCV Design Drain Time = 40.00 hours

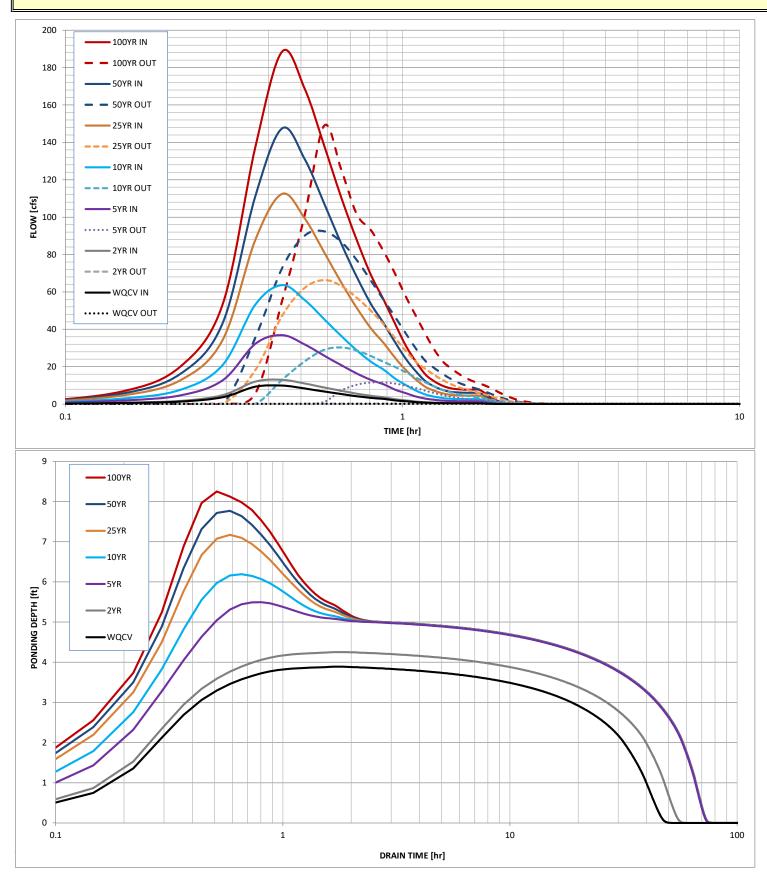
	User Defined	User Defined	User Defined	User Defined		
	Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]		
	0.00	115	0.00	0.00		
	1.00	951	1.00	0.04		
	2.00	2,623	2.00	0.08		
	3.00	6,974	3.00	0.12		
	4.00	14,005	4.00	0.18		
	5.00	18,701	5.00	0.22		
	6.00	21,062	6.00	23.55		
	7.00	23,542	7.00	59.09		
	8.00	26,140	8.00	102.46		
	9.00	28,818	9.00	287.24		
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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 Hydro	graph Results						_
Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in
Calculated Runoff Volume =	0.390	0.513	1.461	2.519	4.423	5.795	7.407	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =	0.390	0.512	1.460	2.519	4.422	5.793	7.400	acre-ft
Time to Drain 97% of Inflow Volume =	40	47	59	54	48	44	39	hours
Time to Drain 99% of Inflow Volume =	43	51	65	62	59	57	55	hours
Maximum Ponding Depth =	3.89	4.25	5.49	6.19	7.17	7.77	8.25	ft
Maximum Ponded Area =	0.303	0.348	0.456	0.494	0.550	0.586	0.615	acres
Maximum Volume Stored =	0.368	0.486	0.995	1.327	1.836	2.176	2.467	acre-ft

SDI_Design_Data - Pond 3 rev, Design Data



Stormwater Detention and Infiltration Design Data Sheet