

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: TIMBERLINE STORAGE YARD	
Owner name: WMAO, LLC., TIM EMICK	
Location Address:	
8110 OPPORTUNITY VIEW, COLORADO SPRINGS,	CO 80939
Latitude and Longitude:	
38.884712 degrees North, 104.675593 degrees West	
Assessor's Parcel #: 53000-00-176 Section: 28	Township: 13 south Range: 65 west
Expected Completion date: May 2020	
Design Foliating Acres:	Design Storm: 100- year storm
Design Engineer Email Address: geno@mscivil.com	
To ensure compliance with C.R.S. 37-92-602(8), the completed Sto Detention and Infiltration Design Data Sheet must be attached . Thttps://maperture.digitaldataservices.com/gvh/?viewer=cswdif#	he form can be found here:
List all permanent water quality control measure(s) (EDBs, rain ga	rdens, etc):
Timberline extended detention basin	
For all projects for which the constrained redevelopment sites sta	andard is applied, provide an explanation of why it is
not practicable to meet the full design standards.	
Attach Operations and Maintenance (O&M) Plan describing the long-term observation, maintenance, and operation of control me maintenance activities. If multiple, different water quality control & M Plan must be provided for each facility.	easure(s), including routine inspection frequencies and
Attach Private Detention Basin / Stormwater Quality Best Mana	gement Practice Maintenance Agreement and
Easement addressing maintenance of BMPs that shall be binding	-
Attachments:	Review Engineer
Stormwater Detention and Infiltration Design Data Sheet O & M Plan	EPC Project File No. PPR-19-042
Maintenance and Access Agreement	

Stormwater Detention and Infiltration Design Data Sheet

Workhook Protected

Worksheet Protected

Stormwater Facility Name: Pond 1

Facility Location & Jurisdiction: Timberline Storage Yard, El Paso County / El Paso County

User Input: Watershed Characteristics

Watershed Slope =	0.014	ft/ft
Watershed Length =	1880	ft
Watershed Area =	63.84	acres
Watershed Imperviousness =	22.5%	percent
Percentage Hydrologic Soil Group A =	30.0%	percent
Percentage Hydrologic Soil Group B =	70.0%	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

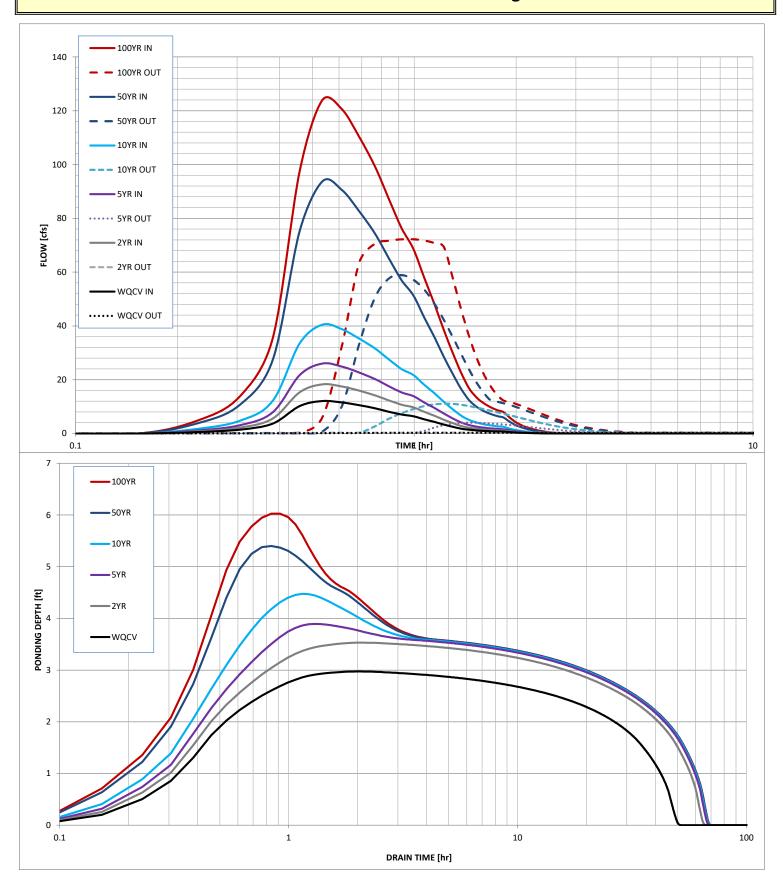
User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft] Discharge [cf	
0.00	147	0.00	0.00
0.58	1,342	0.58	0.06
1.58	7,126	1.58	0.13
2.58	20,841	2.58	0.22
3.58	29,318	3.58	0.31
4.58	32,153	4.58	12.39
5.58	35,136	5.58	69.14
6.58	38,190	6.58	76.05
7.58	41,363	7.58	82.38
8.58	46,212	8.58	169.40
9.58	50,369	9.58	559.48
10.08	52,235	10.08	847.36

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 =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.668	1.016	1.450	2.269	5.340	7.102	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.668	1.015	1.449	2.268	5.331	7.101	acre-ft
Time to Drain 97% of Inflow Volume =	44.4	57.5	58.4	56.1	48.1	44.2	hours
Time to Drain 99% of Inflow Volume =	46.9	60.8	62.7	61.8	58.2	56.3	hours
Maximum Ponding Depth =	2.97	3.53	3.89	4.47	5.40	6.03	ft
Maximum Ponded Area =	0.55	0.66	0.69	0.73	0.79	0.84	acres
Maximum Volume Stored =	0.627	0.966	1.212	1.628	2.337	2.842	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



AsBuilt SDI-Pond 1.xlsm, Design Data 6/7/2023, 3:18 PM