



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: Mayberry, Colorado Springs

Owner name: Colorado Springs Mayberry, LLC

Location Address:

SW of 22325 Highway 94, Calhan, CO

Latitude and Longitude:

Lat 38 deg 50' 03" N; Long 104 deg 25' 03" W

Assessor's Parcel #: 34000-00-358 Section: 14 Township: 14S Range: 63W

Expected Completion date: September 2020

Project acreage: 228 43 Ac. cont. Design Ponding Acres: 1.0 0.87 Ac. ponded Design Storm: 100-Year

Design Engineer Email Address: john@jpsengr.com

To ensure compliance with C.R.S. 37-92-602(8), the completed Stormwater Detention and Infiltration Design Data Sheet **must be attached**. The form can be found here: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif#> (click on Download SDI Design Data Sheet)

List all permanent water quality control measure(s) (EDBs, rain gardens, etc):

Extended Detention Basin (EDB) - Detention Pond C1

For all projects for which the constrained redevelopment sites standard is applied, provide an explanation of why it is not practicable to meet the full design standards. N/A

Attach Operations and Maintenance (O&M) Plan describing the operation and maintenance procedures that ensure the long-term observation, maintenance, and operation of control measure(s), including routine inspection frequencies and maintenance activities. If multiple, different water quality control measures are used at the same location, a separate O & M Plan must be provided for each facility.

Attach Private Detention Basin / Stormwater Quality Best Management Practice Maintenance Agreement and Easement addressing maintenance of BMPs that shall be binding on all subsequent owners of the permanent BMPs.

Attachments:

Stormwater Detention and Infiltration Design Data Sheet
O & M Plan
Maintenance and Access Agreement

Review Engineer JDR

EPC Project File No. SF-18-025

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Watershed Slope = 0.010

Watershed Length =	2660	ft
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Watershed Length =	2660	ft
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Imperviousness = 51.7% per cent

Age Hydrologic Soil Group A = 100.0% percent

Percentage Hydrologic Soil Group B = percent

Percentage Hydrologic Soil Groups C/D = percent

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

User Input

<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>

attach the pdf of this worksheet to that record.

[illegible]

WOCV	2 Year	5 Year	10 Year	50 Year	100 Year
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Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.755	1.765	2.318	2.851	4.391	5.393	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.755	1.764	2.318	2.850	4.390	5.391	acre-ft
Time to Drain 97% of Inflow Volume =	47.3	63.2	64.0	63.0	59.6	57.2	hours
Time to Drain 99% of Inflow Volume =	51.5	69.7	71.4	71.2	69.8	68.5	hours
Maximum Ponding Depth =	1.95	3.40	3.94	4.39	5.57	6.03	ft
Maximum Poned Area =	0.60	0.69	0.73	0.76	0.84	0.87	acres
Maximum Volume Stored =	0.689	1.624	2.002	2.339	3.280	3.674	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

