

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:			
Owner name:			
Location Address:			
Latitude and Longitude:			
Assessor's Parcel #:	Section:	Township:	Range:
Expected Completion date:			
Project acreage: Design	n Ponding Acres:	Design Storn	n:
Design Engineer Email Address:			
To ensure compliance with C.R.S. 37-92-602(8) Detention and Infiltration Design Data Sheet m https://maperture.digitaldataservices.com/gv/	nust be attached. The	form can be found here:	ign Data Sheet)
List all permanent water quality control measu	re(s) (EDBs, rain gard	ens, etc):	
For all projects for which the constrained redennot practicable to meet the full design standar		lard is applied, provide ar	n explanation of why it is
Attach Operations and Maintenance (O&M) Plong-term observation, maintenance, and opermaintenance activities. If multiple, different w & M Plan must be provided for each facility.	ration of control meas	sure(s), including routine	inspection frequencies and
Attach Private Detention Basin / Stormwater	Quality Best Manage	ment Practice Maintenar	nce Agreement and
Easement addressing maintenance of BMPs th	•		-
Attachments:		Review Enginee	r
Stormwater Detention and Infiltration Design I O & M Plan	Data Sheet	EPC Project File No	
Maintenance and Access Agreement			

Please remove SDI sheets. SDI form is What types of facilities require notification per SB-212? only necessary for PBMPs with detention Water Quality Only Flood Control Included (except for WQ only EDB's and WQ only Grass Buffers Not Required Not Required underground detention), per this table: Grass Swales Not Required Not Required Bioretention (with or Stormwater Det Not Required eet without an underdrain) N/A Green Roof Not Required Extended Detention Basin Required Required Sand Filter Not Required Stormwater Facility Name: Phase-I: Ell Permeable Pavement Not Required Required Systems Not Required Media Filter Drain Not Required Facility Location & Jurisdiction: 322 S Ellico Underground Detention Vaults Constructed Wetland Required N/A, SUBJECT TO WATER RIGHTS Pond Constructed Wetland User Defined User Defined User Input: Watershed Characteristics fined N/A, SUBJECT TO WATER RIGHTS RG Channel t^2] Stage [ft] Discharge [cfs] Rain Garden (RG) - Bioretention CSR 37-92-602(8) FAQ UDFCD 2015-08-26 0.62 0.00 0.00 Watershed Area = 312 0.50 0.02 Watershed Length = 1.00 0.02 Watershed Length to Centroid = 106 0.010 9 1.50 17.00 Watershed Slope = Watershed Imperviousness = 58.0% Retention Pond N/A, SUBJECT TO WATER RIGHTS Percentage Hydrologic Soil Group A = 100.0% Percentage Hydrologic Soil Group B = 0.0% percent Percentage Hydrologic Soil Groups C/D = 0.0% percent Target WQCV Drain Time = 12.0 hours Location for 1-hr Rainfall Depths (use dropdown): User Input After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure. Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'. 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 =	N/A	1.02	1.35	1.65	2.44	2.82	in
CUHP Runoff Volume =	0.010	0.026	0.036	0.046	0.080	0.099	acre-ft
Inflow Hydrograph Volume =	N/A	0.026	0.036	0.046	0.080	0.099	acre-ft
Time to Drain 97% of Inflow Volume =	10.2	17.3	16.6	16.0	14.6	13.9	hours
Time to Drain 99% of Inflow Volume =	12.6	19.8	19.2	18.7	17.4	16.9	hours
Maximum Ponding Depth =	0.64	1.00	1.01	1.02	1.04	1.05	ft
Maximum Ponded Area =	0.03	0.04	0.04	0.04	0.04	0.05	acres
Maximum Volume Stored =	0.010	0.022	0.022	0.022	0.023	0.024	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

