

Hayes Lenhart

From: Hayes Lenhart
Sent: Monday, December 11, 2017 12:04 PM
To: 'Mark.Perry@state.co.us'
Cc: 'Donna.Smith@state.co.us'; Wayne Lorenz (wlorenz@wrightwater.com); Ann Nichols
Subject: Notice to Construct Non-Jurisdictional Water Impoundment Structure - FLMD WTP
Attachments: Forest Lakes Metropolitan District - Water Treatment Plant - Stormwater Impoundment Structure.pdf

Hello Mark – this is Hayes Lenhart with Wright Water Engineers in Denver. Attached is a completed Notice to construct a Non-Jurisdictional Water Impoundment Structure in Water Division 2, Water District 10, for the Forest Lakes Metropolitan District (FLMD). This is a stormwater quality and detention structure which has been designed in accordance with El Paso County drainage requirements. It is designed to completely drain within 12 to 24 hours of a storm event (depending on the size of the storm).

Please feel free to call me with any questions or concerns, or if you require additional information about the structure.

Best Regards,

Hayes

Hayes Lenhart, P.E.

Associate Water Resources Engineer

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COLORADO

Division of Water Resources

Department of Natural Resources

www.water.state.co.us P 303.866.3581

NON-JURISDICTIONAL WATER IMPOUNDMENT STRUCTURE¹

This notice is required per Section 37-87-125, C.R.S. (1998) and must be submitted to the Division Engineer's Office a minimum of 45 days prior to construction.

OWNER INFORMATION

Name: Forest Lakes Metropolitan District Telephone/E-Mail: (719) 337-9270 / anicholsduffy@aol.com
Address: 2 North Cascade Avenue, STE. 1280 Colorado Springs CO 80903
Responsible Person: Ann Nichols Telephone/E-Mail: () / Same as above
Contractor: Velocity Constructors, Inc. Telephone/E-Mail: (303) 984-7800 / jjacob@velocityci.com

STRUCTURE INFORMATION

Name of Dam: FLMD Water Treatment Plant Bioretention Facility Water Division: 2 Water District: 10
Location: (Provide Section, Township, Range, and GPS Point taken at crest of dam above streamline/outlet)
- Section: 27, Township: 11S, Range: 67W, 6th P.M.
- Northing 4407.423 meters, Easting 4941.354 meters (Datum should be UTM, NAD 83)

Dam Dimensions:

- Vertical Height²: 5 ft., Length: 15 ft., Crest Width: 3 ft., Slopes: U/S: 4 (H:1V), D/S 50 (H:1V)

Reservoir:

- Surface Area¹: 0.05 acres, Capacity¹: 0.075 acre-feet, Drainage Area*: 1.05 acres
*(If drainage area is unknown leave blank and a spillway size will be assigned):

Emergency Spillway: (See Table 1, Spillway Sizing Guidelines)

Note: Facility has been designed to release 500-year event over emergency spillway with 0.7 feet of freeboard

- Bottom Width: 3 ft., Side Slopes: 4 H:1V, Freeboard³: 1 ft.

Outlet Conduit Type: Reinforced Concrete Pipe, Size: 18 inches, Location: through embankment

Stream Name or Water Source⁴: Stormwater Runoff Proposed Water Use: None

Water Court Case or WDID : Not applicable - Water is ponded and released in 24 hours for flood control and stormwater quality treatment

Signature of Owner [Signature] Date 12/9/17

Office Use Only

DIVISION ENGINEER'S REQUIREMENTS:

Dam I.D.

Signature of Division Engineer Date

1 A "Non-Jurisdictional Structure" is a dam creating a reservoir with a capacity of 100 acre-feet or less and a surface area of 20 acres or less and a vertical height (footnote 2) of 10 feet or less. Non-jurisdictional size dams are regulated and subject to the authority of the State Engineer consistent with sections 37-87-102 and 37-87-105 C.R.S.
2 "Vertical Height" is measured from the elevation of the lowest point of the natural surface of the ground or the invert of the outlet conduit (whichever is lower) where that point occurs along the longitudinal centerline of the dam up to the crest of the emergency spillway of the dam.
3 "Freeboard" is the vertical distance from the bottom of spillway to the crest of the dam. Minimum Freeboard is 3 feet.
4 If construction in reservoir intercepts groundwater, a well permit is required. (Well permit applications can be found at www.water.state.co.us)