



June 10, 2016

Mike DuCuennois  
Yellowstone Mountain Club LLC  
Yellowstone Development LLC  
PO Box 161097  
Big Sky, MT 59716

**Re: Yellowstone Club Pond Slope Reclamation Plan (CVID # 19027)**

Dear Mr. DuCuennois,

The Department of Environmental Quality (DEQ) has reviewed the Yellowstone Club Pond Slope Reclamation Plan, submitted by Confluence Consulting, Inc. on May 12, 2016. DEQ has provided comments that need to be addressed by you. DEQ requests that a response to the comments, the Notice of Intent, and Storm Water Pollution Prevention Plan be submitted by July 10, 2016.

Please provide replies to the following:

- How was the detention basin sized?
- Please clarify if the basin will be used for stormwater erosion or long term stability purposes?
- Do velocities slow down enough in the basin to allow for sediment to drop out?
- Will getting equipment into the area for routine maintenance be an issue?
- The area is proposed to be partially stabilized by seeding. Prior conversations with Yellowstone Club staff indicate that previous attempts of seeding in the area had marginal results. How will this seeding be improved from previous attempts?
- Please provide the flow calculations used for the channel and water bar designs. Include: area drained and annual average amount of snow/rain fall. Were the channel and water bars designed to handle a rain on snow event?
- How was the velocity determined in the collector channel?
- What is the velocity and what subsequent shear stress was used to size the gradation in the collector channel?
- The details 1 and 4 on sheet 6 indicate rock riprap for most of the collector channel and just 2 inches of topsoil on the bottom reach of the collector channel, respectively, as called out on Sheet 4. Are these detail numbers reversed?
- Will 2 inches of seeded topsoil remain stable on the steep slopes in this application? Shear stress analysis would/should verify the stability of the soil in this application.
- Sheet 1 shows grading work beginning about the 8030 level, and the March approved plan to repair the outfall piping above 8140. What is the plan for the erosion channels from 8140 to 8030?
- Will the entire disturbed area be seeded for stabilization? Plans do not indicate that.
- What is the BMP specification for the erosion control fabric?
- What is the BMP specification for the straw mulch?
- Where on the grading plan are the areas where straw mulch, erosion control fabric, and hydro mulch will be applied?
- The sizing of the rip rap is defined on Sheet 6; however, the specifications do not define where or what size to use (Sheet 5), please clarify.
- Do the fabrics to be installed require any type of prepared bedding? If so, please provide the specifications.
- Are the fabrics to be installed permeable to water infiltration into the underlying ground, or will all waters collected flow into the detention pond?
- How many cubic yards of soil were scoured from the mountain side?

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- Were any wetlands filled in at the valley bottom?

Please notify me prior to any work commencing onsite. If you have any questions, concerns, or believe any of the information above is inaccurate or incomplete, please contact me at the phone number or email address listed below.

Sincerely,



Shasta Steinweden  
Environmental Enforcement Specialist  
Enforcement Division  
Montana Department of Environmental Quality  
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cc: Tom Livers, DEQ Director  
Ron Edwards, Big Sky Water and Sewer District  
Madison Disaster and Emergency Services and County Sanitarian  
Rich McEldowney, Confluence Consulting, Inc.