



**COLORADO**

**Division of Reclamation,  
Mining and Safety**

Department of Natural Resources

1313 Sherman Street, Room 215  
Denver, CO 80203

December 4, 2018

Greg Lewicki and Associates, PLLC  
Attn: Katie Todt  
3375 W. Prowers Circle  
Littleton, Colorado 80123

**RE: Colorado Rose Red Granite Quarry, DRMS Permit Number M-1978-332  
Amendment No. 2 (AM02) Application, Adequacy Review No. 5, Geotechnical Analysis**

Dear Ms. Todt,

The Colorado Division of Reclamation, Mining and Safety (DRMS or Division) has reviewed the Geotechnical Analysis submitted with the adequacy response received on November 15, 2018. DRMS is concerned about the potential for a massive block failure in the surface quarry. Table 1 in the analysis submitted indicates there is a principle joint set striking essentially east-west through the site with a dip angle 75° to the south. Our understanding is the highwall in the quarry will generally trend east-west as well, with 30-foot near vertical intra-bench highwalls. If this principle joint set were to daylight near the toe of one of the intra-bench highwalls, the potential for a massive block failure seems likely. Please provide a cross-section showing the local geologic structures and how the intra-bench highwalls will be designed and constructed to control and mitigate a massive block failure.

This concludes the Division's review of the Geotechnical Analysis submitted for the AM02 application. The decision date for this application is December 27, 2018. If you have any questions feel free to contact me at (303) 866-3567, extension 8120 or [Jared.Ebert@state.co.us](mailto:Jared.Ebert@state.co.us).

Sincerely,

Jared Ebert  
Environmental Protection Specialist III

EC: Caleb Liesveld, Colorado Rose Red, Inc. [Caleb@coloradorosered.com](mailto:Caleb@coloradorosered.com)  
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