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Dan Tezak, President
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1087 E. Holiday Drive
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RE: BYZANTINE QUARRY HIGHWALL INSPECTION, MAY 24, 2019

Conditions cool and damp, with late spring afternoon rain events within the past few days resulting in damp soil conditions in general. The quarry floor was damp but without mud puddles or standing water. The quarry face has not changed appreciatively over the past year, with no new crushing on site during the past year. The approximately 500' of mining face is exposed in two producing faces m/l 30' high. The rock face is sloping towards the pit floor. The face is partially covered (50%) with loose material thrown down from above. No water flow, damp zones, or expression of water could be found at any location along the base of the working face or along the toe of the slope. No bedding plane separation was noted anywhere along the direction of strike nor any evidence of failure of rock along the steeply dipping bedding plane.

The second operating bench (drill bench) was recently cleaned with a dozer for preparation for drilling, exposing bedrock along the entire length of the operating face. At the north end of pit, the north end of excavation is demarcated by undisturbed bedrock which outcrops about 20-30' above the second bench elevation. The eastward dipping bedrock is exposed in cross section at this location. The cross section view of bedrock at this location shows no evidence of slippage, presence of water, or potential rock movement due to gravity. No water expression, springs, seeps, or damp ground could be viewed along the toe of the second bench contacting undisturbed bedrock.

A third upper elevation of the disturbed area was reconnoitered that included the large knob of bedrock at the north end of the excavation which defines the northern extent of mining. A dozer cut around the west side (upper) was made some years ago that has not been disturbed since. The exposed bedding plane contact showed no sign of rock displacement, water expression, or differential movement of bedrock. Along the southern reaches of the upper transect, the north to south path crosses an eastern flowing drainage that follows the bedding plane and exposes the upper limestone beds again as a cross section of the sedimentary sequence above the second mine bench. The writer walked down the drainage channel/bedding plane from top to bottom, inspecting the exposed bedding plane contact above the drainage channel contact. Again, no expression of moisture, rock movement, broken rock along bedding plane, or potential instability of bedrock was noted.

Summary and Conclusions

The Byzantine Quarry site has experienced no change regarding ground stability potential since viewed in 2018. Mining benches, working faces, and undisturbed terrain located directly above action mine operations remain stable and in conformation imposed by bulldozer for expedient drill and blast operations or as yet un-disturbed bedrock areas. No water expression or differential movement of rock across the bedding plane can be viewed anywhere in the pit, albeit that the natural bedding angle pitches toward the toe of the face at a steep angle. To date, no un-controlled or un-scheduled rock fall has occurred at this site. Nevertheless, exposed working faces are bermed off for restricted access to the face near the toe or the face is covered with loose rock thrown down or pushed down from above. The site is stable and dry and not likely to change as mining progresses westward into the eastern flank of calcareous sediments comprising the east limb of the Royal Gorge Uplift.

In the event you have any questions regarding my May 24 visit and report, please do hesitate to contact me. Thank you.

Respectfully Submitted,

KSKlco, Consulting Geologist
Azurite, Inc.