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June 4, 2018

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RE: BYZANTINE QUARRY HIGHWALL INSPECTION, JUNE 4, 2018

Inspection time 9am, conditions warm and dry. The writer visited the Byzantine Quarry Site on June 4, 2018 to inspect the working face and highwall condition. As described in the May 26, 2017 inspection report, the strike of the limestone, limestone marl, and siltstone sequence of sedimentary rock varies +- 10 degrees of N20W with dips up to 30 degree east. This conformation results in a potential for bedrock separation and failure reflected in exposed bedding plane and loose rock generated along the working face edge from the un-blasted rock face westward up to twenty feet from the highwall edge. The site has seen little mining over the past year with various sized aggregate stockpiles on site located at the bottom pit level a short distance from the operating face, which follows the strike of the sedimentary rocks basically north-south with a 30 degree dip to the east. The rock under extraction is exposed for nearly 500' along strike in two 25-30' benches. The upper bench varies in depth from 40-70'. The exposed eastward dipping bedding plane is covered with loose material pushed or thrown down from the upper bench lying at angle of repose. The loose rock pile is bermed to restrict vehicle proximity to loose rock. At the terminal point of mining at the north and south ends of the site, the steeply dipping bedding planes are exposed. These excavations show the east dipping bedrock in solid contact with the underlying rock unit with no unstable or sign of rock movement noted along the contact zone. The site is dry and no springs, seepage of moisture, or damp zones were noted anywhere within the mining area. The upper bench had been leveled roughly with a bulldozer and all loose material pushed over the active mining face for access to Front End Loader for crushing system loading on the lower mining level when necessary.(no crushing or screening equipment presently on site.). The upper bench varies in depth as referenced above and is bordered on the west side by a shallow drainage that follows the strike direction and will result in a minimal vertical highwall cut along strike of the southern two thirds of the pit's operating face after removal of the bench is completed.

The inspection included scrutiny of the ground condition of the upper bench edge starting as close as possible to the edge and including up to twenty feet from the face edge. The entire length of the working face was looked at with no signs of tensional cracking or separation of bedded rock at distance from the face edge. The upper bench proved to be a dry, stable, if not un-even surface, ready for drilling operations.

Summary and Conclusions

The Byzantine mine site is an active mine site with natural geologic conditions that could potentially result in rock fall or unexpected mining face failure due to movement along bedding planes. To date, no movement of bedrock along the bedding planes in question have been identified within the active mining area and safe mining practices are employed to minimize personnel and equipment exposure to highwall faces. Moreover, the configuration of the pit will eventually result in the removal of the of the second bench to result in exposure of the drainage channel located along the western side of the upper bench, minimizing the vertical cut of remaining highwall face. This dry site shows no signs of rock slippage, movement, or tensional cracking along exposures of up-dip bedrock. No water, surface or groundwater expression or any other factor was noted that might exacerbate existing geologic conditions to result in imminent ground control concerns. Safety berms were in place to keep vehicles and personnel on foot a reasonable distance from the working face. The Byzantine highwall condition appears to be stable at this time and mining practices employed are suitable and appropriate for the conditions encountered.

If you have any questions regarding this report, do not hesitate to contact me. Thank you for the opportunity to be of service.

Respectfully Submitted,

KSKlco, Consulting Geologist
Azurite, Inc.