



Engineers · Surveyors · Planners · Environmental Scientists

December 2020

## **DRAINAGE NARRATIVE**

Sahara Sand of Franklin  
Mining Permit Plans  
Coles Mill Road  
Monroe & Franklin Townships  
GCG File No. 9973

The site is presently operating as mining site for the extraction of sand and gravel since the 1960s. It is proposed to expand the site in order to provide more material to mine since the extraction of sand and gravel is a diminishing resource. Extraction and processing of materials is done by an electric powered suction dredge. As the material is extracted, the lake (pond) increases in size.

Stormwater from the paved access road sheet flows into two stormwater basins, one on each side of the access road. These basins were constructed at the time of the access road and were designed at that time to infiltrate runoff from the roadway.

Stormwater runoff from the disturbed areas of the site are designed and graded to sheet flow to the interior of the site and ultimately into the pond, where all runoff is recharged. There is a 300-ft buffer to the wetlands and a 200-ft buffer around the perimeter of the site that remains undisturbed in its vegetated condition. Runoff from the undisturbed areas of the site sheet flow in its natural drainage pattern. Therefore, any stormwater runoff from this site will remain as it was prior to mining operations or it will be reduced due to the reduction of areas draining offsite.

The average water elevation of the pond is at elevation 114 which is approximately 6 feet lower than the lowest point of the perimeter service road/haul road near the wetlands buffer. If in the unlikely event, the pond water surface was to rise over 6 ft then water would overflow to the wetlands at the north end of the site.

The existing stormwater basins are owned and maintained by Sahara Sand of Franklin, Inc., c/o Lawrence J. Silvi, II & John L. Silvi, 355 Newbold Road, Fairless Hills, PA, 19030, phone number 267-907-9154.

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