

PROJECT DESCRIPTION –

LEHIGH SOUTHWEST CEMENT CO. PROCESS WATER TREATMENT PLANT PROJECT

Date: January 5, 2017

From: Joe Ziemann, P.E.
Water Works Engineers

To: Santa Clara County Planning Office

To Whom it may Concern,

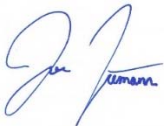
The Permanente Quarry (Lehigh) is a limestone and aggregate mining operation located in the unincorporated foothills of Santa Clara County, Cupertino. The Lehigh cement plant is an authorized use operating under Use Permit No. 173.023, issued May 8, 1939. The Lehigh-Permanente quarry is a “vested mine” operation, as determined by the Board of Supervisors on February 8, 2011. A “vested mine” is a mine that was established legally within the regulations in place at that time, and is allowed to continue until the use ceases.

The proposed facility is being constructed to comply with a cease and desist order placed on the cement plant by the Regional Water Quality Control Board and to comply with the plant’s site-specific NPDES permit (Order No. R2-2014-0010) / NPDES CA0030210), which requires that all process and stormwater generated from the cement plant area is treated prior to discharge to Permanente Creek. A schematic flow diagram of the cement plant process water and stormwater conveyance and treatment system is attached for reference.

In the past two years, the County has been involved in permitting the construction of the new stormwater detention ponds that are part of the overall process water conveyance system. Lehigh is currently operating a 400 gpm “interim treatment system”, as required by the NPDES permit, which is effectively a pilot plant that is demonstrating the effectiveness of the selected treatment process. The proposed Final Process Water Treatment Plant is the permanent treatment system which will replace the temporary “interim” system, and will have a capacity of 1,200 gpm.

The proposed Process Water Treatment Plant will be constructed on a site within the Lehigh property that currently serves as an outdoor equipment storage yard. This location was selected by Lehigh Staff taking into consideration several factors including the Reclamation Plan, ease of construction, minimizing grading required, and the hydraulic profile of the overall process water conveyance system. The proposed Treatment Plant will be housed in a 9,100 square foot metal building. Several process water tanks will also be installed outside of the building on concrete pad foundations.

Regards,



Water Works Engineers

Lehigh Cement Process Water Treatment Flow Schematic

