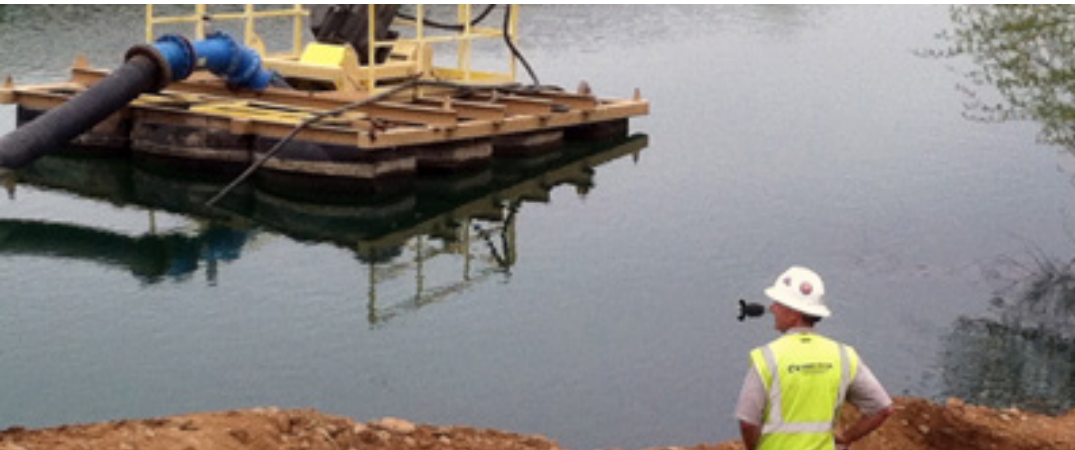




CORNELL PUMP COMPANY

# APPLICATIONS

## MINING



## CONSTRUCTION COMPANY INCREASES AGGREGATE PRODUCTION WITH CORNELL TECHNOLOGY

**Saves more than \$30,000 annually through new installation efficiency and productivity increases.**

A large California construction company boasting over 5,000 employees had a seepage problem. As one of the top ten producers of aggregate and sand/gravel products, the company wanted to extract aggregate from a gravel pit frequently filled with water, mainly because the pit sits atop an underground river.

To combat the water, the company installed another manufacturer's pump on barges to dewater the pit and transfer the water out of the area. These vertical pumps were not performing to expectations. More water than was acceptable was filling the pit. The problem was exacerbated when the company dug for new material; they got closer to the underground river.

The area Cornell distributor had a solution: barge-mount several pumps at 45-degree angles to maintain efficiencies and minimize suction lift. The barges and a four-foot by three-foot strainer basket with a solid steel top to prevent vortex was designed with Cornell Pump engineering. The pumps also had to be more efficient, given the high cost of electricity in this area of California.

Two Cornell 12NHTB-F18DB pumps utilizing grease-lubed bearing frames drive the new design. Cornell NHTB pumps were chosen because of their superior solids handling characteristics. Through the increased efficiencies of the pumps, the aggregate company saves more than \$10,000 per pump annually, plus tens of thousands of dollars per year in increased production from not extracting materials under higher water conditions.