SR 0279, Section A64
Slurry Use Plan

Step 1. The Shore Pac ® will be premixed in a surface tank with municipal water. The municipal water will be pretreated DE-CHLOR at a rate of 2 pounds per 1,000 gallons to neutralize the chlorine present. The chlorine must register at a level of less than 3 ppm prior to the introduction of Shore Pac ®.

Step 2 The municipal water will also be pretreated with soda ash to treat out various contaminants to polymers (magnesium and calcium) which will adjust the pH of the mix water to between 8 and 10. The rate at which the soda ash will be mixed is 6 pounds to 1,000 gallons of water.

Step 3 The dosage of Shore Pac ® to water will be between 1.2 to 2.0 pounds per cubic yard (or 6.0 to 10.0 pounds per 1,000 gallons. This is in accordance with the drilling and mixing guide provided in table 3.1 (attachment 1).
The slurry mix will be tested for viscosity using a marsh funnel to ensure it is of the proper flow rate (60-85 sec/quart).

Step 4 Upon reaching the shaft's final depth, an initial cleaning of the bottom of the rock socket shall be performed with the proper tool (mud bucket). The shaft will be allowed to stand static and undisturbed for a period of time. Samples will be taken using a double-ball bailer at least once during excavation from near-bottom, middle and upper portions of each shaft. These samples will have a specific weight test performed and their results recorded.

Step 5 The slurry will be recycled for use in the next drilled shaft. The slurry will be pumped into a holding tank (the last three feet of impacted slurry will be mixed into a spoils pile and wasted) and tested for viscosity and pH. The appropriate steps will be taken to ensure it falls within the acceptable ranges stated above.

Step 6 Repeat steps 3 through 5 for the remaining shafts.

Any remaining Shore Pac ® is broken down with the chemical oxidizer (sodium hypo chlorite solution, or household bleach). This solution is added at a rate of 3 gallons per 3,000 gallons. The slurry is reverted back to basic water.