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Ph and Total Solids Control For Concrete Producers

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Fortrans Inc. manufactures a self-contained pH control and monitoring system that uses CO₂ gas to neutralize high pH process water and lower total suspended solids in process water produced at ready mixed concrete plants. The Model 5000S pH Control and Monitoring System offers precise pH control, monitoring of pH and lowers "Total Suspended Solids" of process water contained in pits, settling basins and lagoons. Use of the system will provide clean water that meets the EPA criteria to discharge to the environment or to recycle.

The Model 5000S pH Control and Monitoring System offers proven technology to enable operators of ready mixed concrete plants to control the pH and Total Suspended Solids of process water. After the pH is lowered to 7.5 the typical total suspended solids are between 10-18 mg/L without filtration. This enables the facility to meet the pH requirements as well as the 30 mg/L TSS most permits demand before the water can be released. The treated water may recycled to batch concrete, irrigate rock, rinse the interiors of the drums on the concrete trucks and rinse the exteriors of the trucks as well without staining or scaling of the finishes.

The Model 5000S systems cost 60% to 70% less to operate and maintain than acid based pH control systems and are much safer than acid systems. The systems do not require a separate tank and are guaranteed to perform to the owner's satisfaction.

This system has been certified by an independent engineering firm to operate as specified. The units are shipped fully assembled and only require an electrical connection and a supply of carbon dioxide gas plus a CO₂ regulator.

The system will treat approximately 75,000 gallons over a 24 hour period. The system is also available as a skid mounted unit. (Model 5000SK) Higher capacity Systems are also available up to 200,000 GPD.

Over 200 of these systems are operating at ready mixed concrete plants in the US. The systems are low maintenance, highly reliable and affordable. Fortrans has a wealth of knowledge in this technology and has provided concrete

producers with an affordable and guaranteed solution for treating high pH process water over the last 8 years. One company in the Boston area saved approximately \$400,000 per year in water storage and disposal costs after installing a Model 5000SK system.



Model 5000S pH Control System