

# Case History

## Model 230 Auto-Vac®

### Benefits:

- ◆ Eliminate Sewer Discharge
- ◆ City Water Usage Is Reduced To Only Make-Up Water
- ◆ Eliminate Dredging of Solids
- ◆ Provide Continuous Clean Water Supply To Saw
- ◆ Extend Saw Blade Life



## Auto-Vac Provides 1/2 Micron Clean Water

Quad City Brick & Stone, Bettendorf, IA processes Indiana Limestone, Wisconsin Limestone, Rustic and Cocoa to produce face brick, cut stone and retaining walls.

To expand capabilities and increase production, a decision was made to purchase a jaguar saw from Park Industries.

The addition of the saw proposed new challenges. What technology is available to provide the required 10-gallon per minute water supply? Is it possible to remove the solids from the process water without dredging a settling tank?

During a visit to Park Industries, maintenance personnel viewed an Alar Auto-Vac® filtering solids from saw process water in Park's test bay. Problem's solved!

Quad City Brick purchased an Auto-Vac® Model 230 from Alar Engineering Corporation. Alar manufactures sixteen different Auto-Vac® sizes to accommodate volumes large or small.

A 3500-gallon in-ground dirty tank was installed to accept dirty process water from the saw, as well as hand polishing tools and wash-up water. A 3500-gallon in-ground clean tank was installed next to the dirty tank with an opening to allow clean to overflow into the dirty tank and feeds the Auto-Vac®. Process water is filtered down to 1/2 micron and discharged into the clean tank. A Teel Jet Pump is utilized to draw from the clean tank and feed the saw, hand polishers and provide wash-up water completing a "closed-loop" system. Dry solids are discharged from the Auto-Vac® into a dumpster.

An optional "automatic shut-off" was purchased with the Auto-Vac®. This allows the unit to operate unattended, even after hours. When the filtration cycle is complete, the system shuts down automatically. After a brief wash-up cycle, the operator restarts the filtration process.



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