

CASE STUDY: KING QUARRY

King Quarry - Northern Wisconsin's foremost producer and supplier of natural stone products, was established in 1958 and is located in the picturesque community of Sugar Camp, Wisconsin. King Quarry provides natural stone materials for all applications, which range from the smallest washed sands to decorative stones to multi-ton boulders, and a never-ending choice of variation in colors, shapes, textures and styles.

King Quarry's expansion from road construction to architectural design stone products increased their production and created a need for new equipment, so they purchased a TXS Saw from Park Industries. The Park TXS is a superior piece of equipment for architectural stone companies, but like all wet saws, it creates large amounts of slurry water. The city regulations for King Quarry's industrial park prohibits the discharge of wastewater solids, and King Quarry approached Park Industries with their sludge water dilemma.

Park provides hands-on machine and maintenance training at their state-of-the-art Park Tech Center. While at the Park Tech Center, the King Quarry operators noticed an ALAR AutoVac® that was filtering solids and recycling water created by the Park TXS. Impressed with the simplicity of the AutoVac®, King Quarry contacted ALAR. After discussions with ALAR's knowledgeable engineers and sales managers, King Quarry knew that the AutoVac® was the solution to their problem.



Major Deciding Factors for King Quarry's AutoVac® Purchase

- ✓ Self-Cleaning Filter
- ✓ No Chemical Handling or Chemical Costs
- ✓ No Settling Ponds
- ✓ Few Moving Parts
- ✓ Made in America

King Quarry's water recycling system utilizes three (3) 1,700-gallon above ground settling tanks. The first tank feeds settled solids to the Alar AutoVac® and overflows the clean water into the second and third tank; water from the third tank is recycled back to the TXS saws. The ½-micron clean water from the AutoVac® is used as a final rinse for King Quarry's veneer product, and as cooling water for a 5000°F flame tip that is located on a heat-flaming machine.

City regulations aside, the AutoVac® would pay for itself in 3 ½ years through water conservation; saving over 15,000 gallons of fresh water per 8-hour day – almost 4 million gallons per year! King Quarry also discovered how to utilize the waste solids coming off the AutoVac® by recycling them in asphalt and baseball field materials.

King Quarry holds high esteem for the natural surroundings it operates in. They not only provide Commercial Builders, Masons, Landscapers and Homeowners with endless natural stone possibilities, they make sure the job gets done in an environmentally friendly way by using the best equipment available.



WATER RECYCLING SYSTEMS & EQUIPMENT SINCE 1970

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