

# Wash Plant Optimization



Chemical selection shows proven results

As the frac sand mining industry has become more and more competitive, business sustainability depends on running the most efficient and cost effective processes throughout the entire plant. This is critically important in the wash plant, where the wrong choices can lead to higher operating costs, inefficient water use and reduced production volumes.

Hydrite has joined with Superior Analytical Instruments (SAI) to provide frac sand mines with turnkey solutions that include the highest quality product offering with advanced automation technology that allows for optimized chemical dosing. Together, this improves water quality and delivers significant cost savings.

Hydrite and SAI will keep your wash plants operating efficiently while providing high quality water at the lowest overall cost.

Let us help reduce your cost per ton by effective plant optimization

TRIAL RESULTS	Average tons of sand produced per day	lb. of floc per day	Tons of sand produced per lb. of floc	Gallons of CAT produced per day	Tons of sand produced per gal. of CAT (consumed)
Summer (W/O Hydrite's Chemistry)	13,901	662	22.1	148.32	94
Fall (W/ Hydrite's Chemistry)	15,459	475	32.2	112.6	137

Increase of 10 tons of sand per pound of floc consumed equates to \$6,600/month of chemical savings

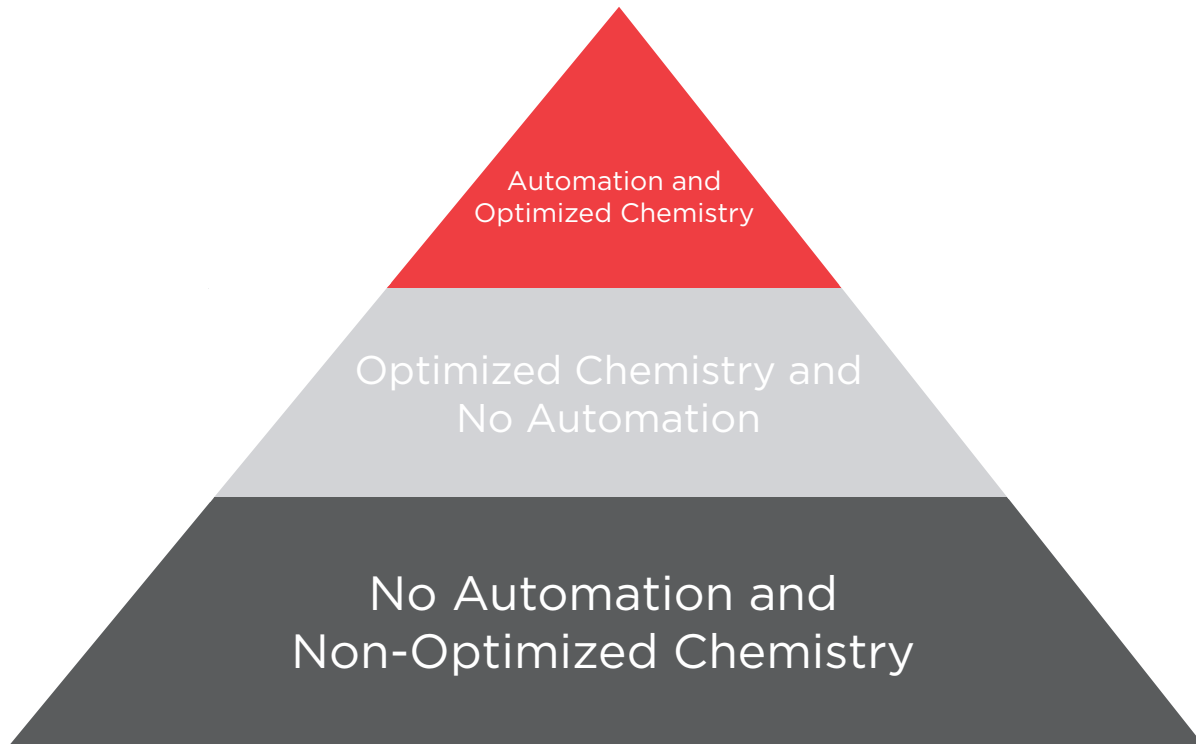
Increase of 43 tons of sand per gallon of cat equates to a \$1,465/month chemical savings

Providing Creative Solutions



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## STEPS TO OPTIMIZED EFFICIENCY AND MAXIMIZED PRODUCTION



Identify the bottle necks in your system. The wash plant is often the area which dictates the throughput of your mine.

A full implementation of thickener automation and high quality optimized chemistry can reduce this bottle neck, and allow you to put more tons on the ground every day.

In a recent site evaluation, a user saw record high production rates with a decrease in pounds of chemistry fed. That's the Hydrite/SAI solution.



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