



SENDING OUT AN “SOS”

We started doing chemical System Optimization Studies (SOS) for our customers on older systems and found some BIG problems that had to be solved first.



ENVIRO CORP
SYSTEMS & SOLUTIONS

MECHANICAL AUDIT & SYSTEM OPTIMIZATION STUDY

ADDRESS SAFETY CONCERNS

After visiting customer sites we found that in most older systems there were serious safety and mechanical risks that could cause an injury or a shutdown.

REDUCE COST

We also found that most systems use more chemical than necessary for the job required. This is usually due to waste from mechanical issues but also because of poor operating parameters regarding water quality, chemical properties and water temperature. Ignoring these issues costs your company money everyday.



Reagent systems tend to get secondary attention and their cost, due to inefficiencies, is generally not quantified.

MECHANICAL AUDIT & SYSTEM REVIEW

Our service programs are especially effective for older systems. If you are operating one, you need us.

We routinely find a multitude of issues which affect the operation of our customer's lime slaking or chemical makedown systems. We provide a report which identifies the safety risks and outlines all of the inefficiencies that are costing you money. We follow this up with a consultation to review the diagnosed issues. Following the consultation, we provide a quote for a retrofit, a rebuild or parts replacements or whatever is identified as necessary to return the system's operation to optimum performance.

The detailed audit of our customer's system is compiled after our technician spends a day or sometimes several days on site and investigates and documents all aspects of the operation including:

- Safety issues
- Reliability concerns and potential problems
- Inefficiencies which are keeping it from optimum operating parameters
- Wear and tear and other matters which can cost money in wasted chemical or through system shutdown for repair or maintenance
- Performance of mechanical components is compared against design specifications.

SYSTEM OPTIMIZATION STUDY

Our System Optimization Study reduces the amount of chemicals used in achieving the system results required by your application.

There are a multitude of factors which impact on the reactivity of slurries and therefore the efficiency of the chemical used and its cost to the process.

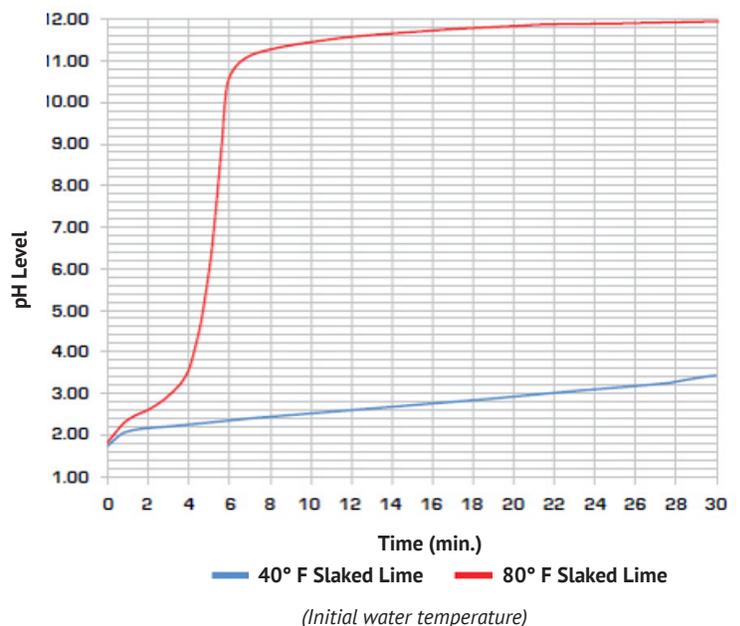
The chart below illustrates the differences in the ability of two weight equivalent amounts of slaked lime to change the pH. The red line shows the efficiency of the slaked lime under STT recommended conditions. The blue line shows the efficiency of poorly slaked lime at site conditions, from the same source.

Properly slaked lime works faster and with less lime. It shows that even if there is 30 minutes and longer retention time available to change the pH, poorly slaked lime is inefficient.

Information such as this, combined with water temperature and water quality can have a measurable impact on chemical consumption.

This is an impact we can quantify and compare against system improvements allowing you to determine the cost benefit.

NEUTRALIZATION RATE CURVE



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