



AquaTex™ COG

WASTEWATER RESOURCES INC.

AquaTex™ COG is a coal, oil, and gas wastewater treatment system designed to treat frac water or produced water from well sites through separation, filtration and multistage processes.

Wastewater is collected in a mixing tank, a flocculent polymer compound is added and mixed, precise amounts of air are added as the wastewater passes through a flocculator and then into a hydraulic separator. The wastewater is then saturated with fine microscopic air bubbles that attach themselves to the flocculated particles. These particles rise to the top where they form a sludge blanket and pass out the top of the separator as the blanket rises. An optional outlet can be located at the bottom for heavier settled solids that tend to sink. The sludge can then be placed in the pit for cover up as nontoxic.

The clean treated water can be discharged or polished through specific membrane technology for further treatment or reuse. The process allows for a huge reduction in fresh water usage, reduces transportation cost, limits environmental exposure, and expands the life cycle of existing injection wells.

Advantages

- Limit new water supply requirements
- Reduce costly water purchases
- Reduce water hauling truck traffic/cost
- Accelerate pit closure times
- Enhance environment by reusing scarce water resources vs. disposing underground



The WRI AquaTex™ COG System

Design Philosophy

- Treatment vs. Disposal
- Mobile treatment train
- Significantly reduce water usage
- Limit environmental exposures