

INNOVATION STORY : OILFIELD SERVICES TECHNOLOGY

WASTEWATER + RM-10™ = \$SAVINGS



THE INNOVATION: An absorbent that transforms hazardous liquid waste for safer, cheaper disposal

BACKGROUND: Many production plants face the dilemma of how to both safely and affordably dispose of hazardous liquid waste. On top of more stringent environmental regulation, the disposal of hazardous waste is typically three to four times the cost of non-hazardous waste and it requires more administration and additional documentation for waste manifests, reporting and record keeping.

CETCO Oilfield Services, a wholly owned subsidiary of AMCOL, has the perfect solution to this problem. Its proprietary bentonite based RM-10® technology can trap hazardous components by causing fine particulates in the liquid to clump together into flocculants. The resulting flocculants can then be easily separated from the filtered liquid and are safe and non-leachable, allowing for simple and safe disposal. Because of its versatility, RM-10® can be applied to many industries for different wastewater filtration applications.

RESULT: One successful application of RM-10® occurred in a metal fabricating plant. This plant generates as much as 800 gallons of liquid waste every week containing soap and suspended solids. Since its chemical parts per million was over 20 times the regulated amount, the plant was unable to directly discharge its process water back into the environment. The plant attempted to address the issue with the use of a centrifuge unit, but this alone was not sufficient. After introducing RM-10® to their waste discharge process, the plant was able to convert its liquid waste into waste flocculants that could then easily be disposed of. As an additional benefit for the plant owners in utilizing the versatile RM-10® chemistry, they found that they are now able to treat a new wastewater stream containing hexavalent chromium through a single addition of RM-10®.

Since the plant owner's implementation of RM-10® technology, they have been able to get their water to meet all government water regulations, and are now able to quickly and safely release their wastewater, reducing costs and allowing continuous operations at the plant.

AMCOL's passion for innovation continues to help our customers solve problems and improve efficiency.



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