

# Drilling & Exploration Wastewater Treatment

Waste streams generated by drilling and exploration activities vary from contaminated wash and ballast water, to emulsified fluids containing drilling fluid, cuttings, seawater and the like. Conventional methods of disposal usually consist of containerization and transportation to shore which are costly, logistically time consuming and labor intensive.

## ADVANTAGES

- Ability to treat and discharge waste fluids on-site
- No interruption to drilling activities
- More economical than off-site transportation and disposal
- Compact, self-contained system
- High process rates

We can rapidly mobilize our equipment, personnel and media to your rig in order to eliminate off-site disposal. This is accomplished by using our state-of-the-art mobile wastewater treatment equipment to treat wastewater streams to below EPA overboard discharge standards. Our Monosep™ brand system consists of proprietary coalescing media, chemical treatment, flotation, filtration and adsorption of organic contaminants.

## TREATMENT PROCESS

Wastewater generated from drilling activities can be containerized in our 120-barrel flotation vessel until sufficient volumes are generated. The treatment process consists of:

- 1) Processing the fluids through a 120-barrel flotation tank. This vessel has four compartments, each equipped with flotation for removal of oil and grease contamination, weirs for removal and collection of contaminates, and a vapor vent system.
- 2) Fluids exiting the flotation vessel are transferred with high volume centrifugal pumps, and are routed to a downstream radial flow designed vessel containing solids filtration cartridges and oil adsorption media. Typically, this step in the process will remove up to 95% of the total suspended solids and oil and grease.
- 3) The final step in the process includes final polishing of the fluids using granular activated carbon. Once the fluids exit the final step of the process, samples are collected and analyzed on-site to ensure compliance before being discharged.

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