

# Case History

## SAS Drill Cuttings Cleaning



Products:- SAS105SC, SAS116B.

### "FASTER DRILLING CAPACITY, CLEANER CUTTINGS DISCHARGE AND SIGNIFICANT COST SAVINGS"

A leading Aberdeen based, North Sea service provider asked Surface Active Solutions to demonstrate the advantages of using one of our products from our range of water based microemulsion forming surfactants, in their cuttings cleaning system.

The results were verified by an independent accredited laboratory using retort, solvent extraction, FT/IR, and GC/MS analysis techniques.



### Statistics

- Processing throughput of **25 - 30 Metric Tonnes** drill cuttings per hour
- Oil content reduced to **0.8 - 3.0%wt** oil on dry cuttings
- **Surfactant and water recycled** within closed loop treatment system
- Surfactant product **GOLD rated** through the CEFAS CHARM Model for use offshore in the North Sea
- No Taint warnings
- No flag for substitution warnings
- Residence time of cuttings in the system was **less than 30 seconds**

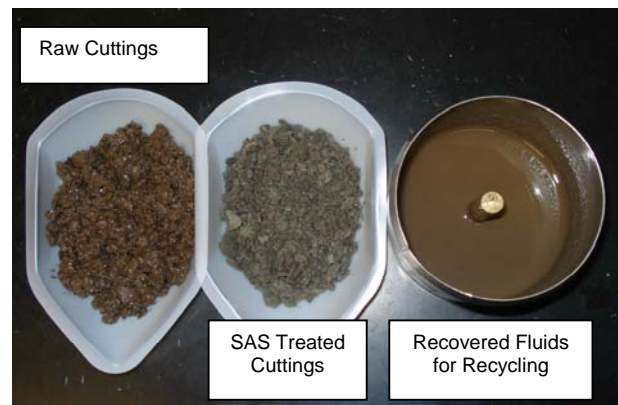
### SAS SYSTEM USING SAS ME PRODUCTS

Discharge 0.8 - 3.0% OOC  
 Max 25 - 30 Tonnes/Hr Capacity  
 Integral Transfer System  
 Built in Redundancy  
 Minimal Moving Parts  
 Built in Oil Cleaning  
 Lower Running Costs  
 4.5 KW per Tonne Power Required.

### CUTTINGS DRYERS

Discharge <6.9% OOC  
 Max 15 Tonnes/Hr Capacity on 12 1/4" Hole  
 Additional System Required  
 No Redundancy  
 Many Moving Parts  
 Additional Oil Cleaning Reg.  
 High Running Costs  
 8-10 KW per Tonne Power Required.

### Photograph to show waste drill mud cuttings before and after SAS MicroEmulsion treatment



North Sea shale cuttings (Left) and after treatment with SAS ME chemistry (Centre) + recovered fluids for recycling (Right).

The information presented is complete and accurate to the best of our knowledge and belief. Since the applications and conditions in which the products may be used are outwith our control, all recommendations and suggestions regarding their use are made without guarantee or warranty. Furthermore, SAS cannot accept any liability for loss or damage which may be incurred in connection with the use of our products. In addition, SAS cannot accept any liability for loss or damage incurred as a result of an infringement or an alleged infringement of any third party intellectual property rights caused (directly or indirectly) by the use of our products (in a manner that contradicts our suggested methods of use for such products).