

Oil Industry Operation Wastewater Treatment

Wastewater on a self-contained drilling platform comes from several sources. The following examples are samples obtained from the seven oil-drilling platforms off of the coast of Nigeria. The first platform had samples from the industrial laundry, kitchen, emulsified wastewater, cutting oily-water and drilling mud. The samples were treated individually and then combined so as to simplify the platform operations with only 2 treatment systems. All samples treated easily with the FloccinAgents™. To meet reuse or discharge limits, post treatment with micro-filtration and reverse osmosis will be added to the treatment process.

Industrial Laundry



The Industrial Laundry sample was received at a pH of 6.6. It treated easily with Floccin™ at a dosage of 0.12 grams in 100 ml or about 10 lbs/1,000 gallons.

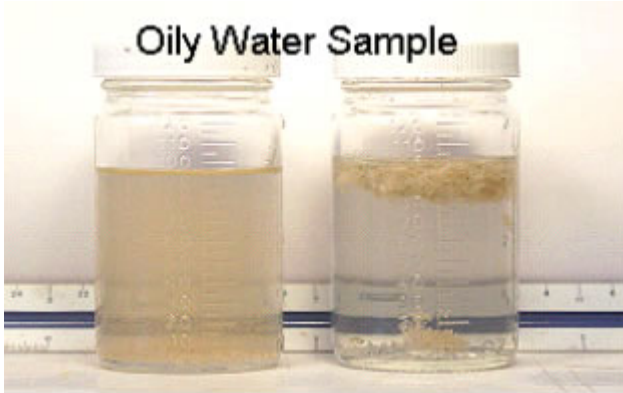
Constituent	Untreated	Treated
TDS	472.5 ppm	673 ppm
Conductivity	905.1 μ S	1,363 μ S
Suspended solids	335 ppm	15 ppm

Oily Wastewater Sample

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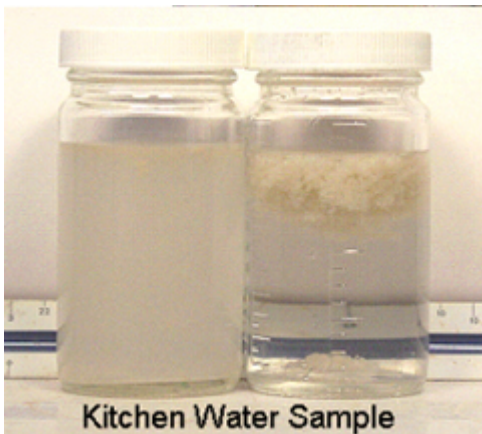
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The Oil/Water sample was received at a pH of 8.5. The sample was treated with Floccin™ at a dosage of 0.1 gram/100ml or 8.3 lbs/1,000 gallons. Note the drop in TDS/Conductivity.

Constituent	Untreated	Treated
TDS	9,006 ppm	8,977 ppm
Conductivity	15.33 mS	15.29 mS
Suspended solids	171 ppm	56 ppm

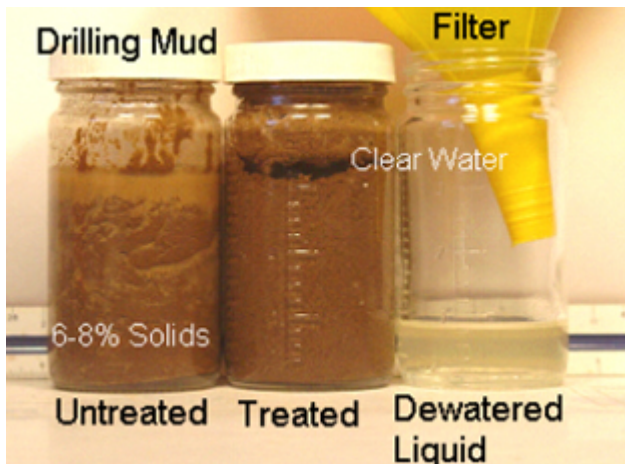
Kitchen Wastewater Sample



The Kitchen Wastewater sample was at a pH of 5.0 so caustic was added to bring it up to 6.0. The sample was treated with Floccin™ at a dosage of 0.1 gram/100ml or 8.3 lbs/1,000 gallons. Note the drop in TDS/Conductivity.

Constituent	Untreated	Treated
TDS	557.1 ppm	457.3 ppm
Conductivity	1,063 μ S	876.2 μ S
Suspended solids	421 ppm	11 ppm

Drilling Mud Wastewater Sample



The 1 part Drilling Mud to 5 parts Cutting Oils wastewater sample was at a pH of 6.5. The sample was treated with Floccin™ at a dosage of 0.1 gram/100ml or 8.3 lbs/1,000 gallons.

Constituent	Untreated	Treated
TDS	12.41 ppt	42.04 ppt
Conductivity	65.5 mS	65.5 mS
Suspended solids	6-10% solids	85 ppm

Combined Wastewater Samples

Kitchen and Laundry Wastewater



The 50% Kitchen to 50% Laundry wastewater sample was at a pH of 5.0 so caustic was added to bring it up to 6.5. The sample was treated with Floccin™ K at a dosage of 0.1 gram/100ml or 8.3 lb s/1,000 gallons.

Constituent	Untreated	Treated
TDS	411 ppm	515 ppm
Conductivity	790 μ S	912 μ S
Suspended solids	250 ppm	12 ppm

Cutting Oils and Mud Wastewater Sample



The 1 part Drilling Mud to 5 parts Cutting Oils wastewater sample was at a pH of 6.5. The sample was treated with Floccin™ at a dosage of 0.1 gram/100ml or 8.3 lbs/1,000 gallons.

Constituent	Untreated	Treated
TDS	9,566 ppm	9,865 ppm
Conductivity	16.25 mS	16.74 mS
Suspended solids	1,375 ppm	61 ppm

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