



## Drilling Head Manufacturer

This facility makes diamond faced oil field well drilling heads and uses water with additives to provide machining coolant and grinding compounds for their operations. The suspended solids of the sample received was over 300 ppm and over time this plugs the piping requiring down time to remove the buildup of these solids.

The current process pumps the water from the Filtered Water Tank to the process machines and then the water (dirty) to the Influent Process Water Tank. It is then pumped through the 68 cu. ft. filter press for solids filtering and flows to back to the Filtered Water Tank in a closed loop system. The facility reclaims the solids from the filter press as it contains diamond shavings. The facility wants to remove more of the solids from the system to provide cleaner water and reduce the abrasion in the processing machines.

The sample of waste water was tested and the Floccin™ 1105 was used at a dosage of 0.77 gram/1,000 ml (6.25 lbs/1,000 gallons). The pH was unchanged at 9.4 pH (no pH adjustment was needed). The water quality was clear and the suspended solids was less than 20 ppm. The photo of the untreated and treated samples are shown below.



### Recommendations:

The Floccin™ could be easily feed into the Influent Process Water Tank and with a Mixer or recirculation pump thoroughly mixed before being pumped to the Filter Press. The result would be control of the water quality in the process.