

# **FILTERTECH** *Industrial Liquid Filtration Systems*



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**Subject:** Your waste water sample submitted 66% acid rinse + 33% caster water mixture

The sample of unfiltered waste mixture was received and tested to show the effect of dry chemistry addition as it relates to the separation of solids from unfiltered water sample.

**Centrifuged Sample:** 1.5% solids by volume

The beginning parameters are as follows using a 200 ML sample.

**Material as Received:**

Temperature	60°F
Turbidity	803 NTU
pH	7.5
Color	Cloudy brown/green

**Unfiltered Mixture as Received**



Using the 200 ML sample, while thoroughly mixing, temperature was raised to 100°F. Added 1.6 grams dry separation chemistry and allow mixing approximately 10 minutes at high speed to hydrate dry chemistry.

### Separated Sample After Treatment



The sample was then processed through filter media one pass and final clean sample collected.

### Filtered Water



### Final readings of the clean water are as follows:

Temperature	100°F
Turbidity	10 NTU
pH	9.8
Color	Clear and colorless

**Unfiltered Mixture; Clear filtered Mixture; Collected solids**



Parameter (in ppm or mg/L)	Untreated	After Treatment
Appearance	Cloudy, green	Clear, colorless
Suspended Solids	294	77
pH	8.73	7.67
Cadmium	<0.005	<0.005
Chromium (total)	0.09	<0.005
Copper	114	4.10
Nickel	0.05	<0.005
Lead	<0.02	<0.02
Zinc	0.31	<0.005

**Summary**

The sample showed typical reaction to dry chemistry formulation in both time and separation completeness. No adjustment of the formulation is recommended. The solids stayed permeable during filtration.