

MetClear* MR2405 Improves Effluent Clarity for Midwest Electroplate

Background

A Midwest electroplater used carbamate as a metal precipitating agent to remove high levels of zinc from its wastewater. The fluctuations in the wastewater (flow rate, zinc level, cleaners, etc.) required a very high dosage of carbamate to be effective. The floc was very light and fluffy, and the clarity of the effluent was often unacceptable. Flowrate of the wastewater was 50,000 gallons/day (189,215 L).

Challenge

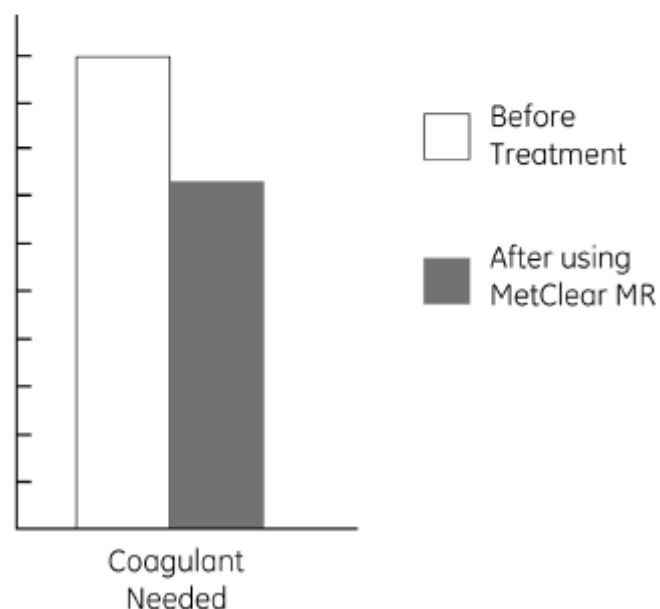
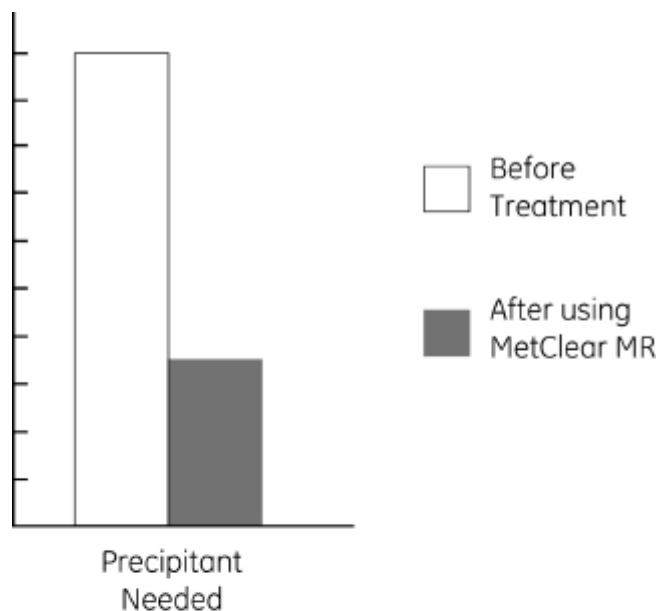
The high dosage of carbamate required by the program was costly. Significant levels of coagulant were also necessary to provide effluent clarity that met discharge requirements.

Solution

MetClear MR2405 replaced the carbamate program. The floc characteristics of the precipitated metals did not require the high coagulant dosages.

Results

The precipitant requirements dropped by more than 65%, with the zinc levels in the effluent remaining below the discharge limit of 1 ppm (mg/L) at all times. There is now exceptional clarity throughout the entire system, and the filter cake is higher in solids. Coagulant dosage requirements dropped by 25%.



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