

Case History:

CETCO Scores a Perfect 10 with RM-10®



Filter Press



The first beaker is the untreated hex chromium plating waste. The second beaker contains trivalent chromium after adding a reducing agent with RM-10 flocculating the chromium solids. The third beaker is of the treated, clean water.

Eliminating Hazardous Waste Disposal

CETCO Oilfield Services' Industrial Wastewater Treatment Division has over 30 years experience in treating industrial wastewater, helping clients meet compliance requirements and reduce costs. Additionally, CETCO Oilfield Services' RM-10® flocculant has been successfully applied in the aerospace sector, turning a previously hazardous waste product into a delisted sludge.

The aerospace facility has a plating line, which utilizes hexavalent chromium. During the plating process wastewater contaminated with chromium is produced. Wastewater treatment is required to reduce the chromium to a less hazardous and a less soluble state.

The previous wastewater treatment program applied at the plant featured a conventional all-organic polymer for flocculation and settling out of the precipitated metals and other suspended solids in a settling tank. The settled sludge was then dewatered in a filter press to reduce water content. When the Toxicity Characteristic Leaching Procedure (TCLP) was performed on the resulting filter cake, it was classified as hazardous waste. Disposal of hazardous waste is typically three to four times the cost of non-hazardous waste and it requires more administration and additional documentation for waste manifests, reporting and record keeping.

CETCO Oilfield Services considerably reduced costs for the aerospace client by applying its patented RM10 bentonite based flocculent in place of the conventional flocculent. The bentonite particles in the CETCO flocculent absorb the Chrome (III) in the wastewater and render the metal non-leachable. TCLP testing of the cake resulting from the CETCO process proved the waste to no longer be hazardous. This has allowed for less costly disposal and a decrease in the client's overall waste treatment costs.

WATER TREATMENT | PIPELINE | WELL TESTING | WASTEWATER | RENTALS | NITROGEN SERVICES



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