

Using Profix® To Convert Hazardous Waste Generation Of Waste Stream To Dischargeable Waste Stream And Non-Hazardous Disposal Of Solids: A Case Study

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Abstract: A company generates a metals and oil and grease laden wastewater. The company pH stabilizes the water and sends to an on-site evaporator. Once the majority of the water is evaporated, the remaining wet sludge is put in drums, which are then dried in a drum drier. The dry sludge is then disposed in a hazardous landfill. The company wants to reduce costs associated with evaporation and drum drying and hazardous disposal of the waste. This paper will look at treatment methods using polymer chemistry and a unique rice hull ash product called ProFix® to sequester the metals and O&G and solidify the remaining cake. The solid cake will pass TCLP tests for non-hazardous landfill and can be disposed of in a non-hazardous landfill. The water will have sufficient metals and O&G removed to allow for discharge into the Municipal Sewer System for treatment.