



Electrocoagulation and other  
wastewater treatment technologies

## **KASELCO**

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# *Benefits*

## KASELCO Electrocoagulation Wastewater Treatment

### **Excellent Results (i.e. Low Concentrations)**

Treatment levels are typically below the capabilities of conventional chemical precipitation. This makes electrocoagulation the method of choice for operations discharging under permits with low limits.

### **Peace of Mind**

Comply with current and future regulations. Have a bigger margin above your discharge limits.

### **Low Capital Costs**

Standard packages and engineered systems are attractively priced. Systems may be designed to retrofit your current wastewater treatment system, resulting in substantial savings over current operations.

### **Low Operating Costs**

Operating costs can be dramatically reduced. If you no longer pay for reagent chemicals, can reduce polymer consumption, reduce filter press operations, reduce solid sludge generation, wouldn't you save a lot of money?

### **Simultaneous Treatment**

A remarkable aspect of KASELCO Electrocoagulation is that several contaminants can be treated simultaneously. This eliminates the need to segregate waste streams and treat them separately. Most chemicals you use to treat the waste are no longer required. The process will accept a wide pH range. What does this mean? Mix your Chromium VI and other streams together. (Cyanide does need to be destroyed in advance of EC, however, down to at least 7 PPM).

### **No or Low chemical reagent use**

In many cases (especially the "Slam Dunk" wastes) the use of chemicals for treatment is eliminated. In any event, we tune the EC to minimize the use of any pre- or post- EC adjustments.

### **Better Metals Removal**

The metals concentrations in the KASELCO effluent are lower than chemical processes can attain.

### **Reduced Salts in Effluent**

Low or no use of reagents reduces the sodium, sulfates and chlorides in your effluent as compared with chemical treatment.

### **Chemical Reagent Elimination or Reduction**

pH adjustment is often not necessary. An increase in pH during our process and the lower solubility of iron-metal oxides allows a much wider raw waste pH range than typical chemical processes.

### **Lower Sludge Quantities Created**

Lower (or zero) use of reagents dramatically reduces the amount of sludge produced resulting in lower disposal costs. Could be 40% to 60% reduction in sludge over chemical methods.

### **Stable Sludge**

KASELCO Electrocoagulation produces solids that pass US EPA TCLP testing – including heavy metals like Chromium VI. If your waste is not a listed waste, disposal costs can be significantly reduced. Even if they are, recycling is an option. Regardless, we make less of it anyway.