



ELECTROCOAGULATION FOR WASTE WATER TREATMENT PLANT



Electrocoagulation (EC), is a rapidly growing area of wastewater treatment, less well known as radio frequency diathermy or short wave electrolysis, is a technique used for wash water treatment, wastewater treatment, industrial processed water, and medical treatment. Electricity-based electrocoagulation technology removes contaminants that are generally more difficult to remove by filtration or chemical treatment systems, such as emulsified oil, total petroleum hydrocarbons, refractory organics, suspended solids, and heavy metals.

Electrocoagulation Capabilities:

- Removes heavy metals as oxides that pass TCLP
- Removes suspended and colloidal solids
- Breaks oil emulsions in water
- Removes fats, oil, and grease
- Removes complex organics
- Destroys & removes bacteria, viruses & cysts
- Etc



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Electrocoagulation Benefits:

- Meet Discharge Requirements
- Reduce Sludge Volume
- No Chemicals
- Process Multiple Contaminants
- Process Waste Streams with up to 5% solids.
- Harvest Proteins, Oils, and Metals
- Less processing fee (monthly cost)
- Land required is relatively small
- The execution / use very simple tools
- There is virtually no need of Chemical materials
- Able to process various types of liquid waste
- Less sludge generated from the process
- Risk of workmanship is very small
- Faster processing time

Electrocoagulation Application in Industry:

- Hazardous Waste Plant
- Oil and Gas
- Mining
- Automotive Industries
- Petrochemical
- Manufacturing Industries
- Etc

Services:

- Treatability studies
- Field-scale demonstration pilots
- System installation, commissioning, & follow-up service
- Operator training courses
- Client-tailored research & development
- Integration with Reverse Osmosis, Ultrafiltration and other downstream polishing technologies

Sample of Application:

WWTP Electrocoagulation system at Hazardous Waste Treatment Plant at Mojokerto with Capacity 48 M³ per day:



WWTP Electrocoagulation system at Electronic Manufacturing Plant at Depok with Capacity 800 M³ per day:



WWTP Electrocoagulation system at Automotive Manufacturing Plant at East Jakarta with Capacity 200 M³ per day:

