

Electrocoagulation

Water Recovery and Reuse

Results

The following test results were reported by a qualified independent laboratory or government facility and are specific examples of the patented electrocoagulation process. As part of your company's qualification, we will conduct a similar test with a wastewater sample supplied by you. Tell us your wastewater concerns and we will let you know what an Electrocoagulation System can do for you.

Metals, Ions, Solids, Hardness, and Turbidity

Contaminant	Before (mg/l) (ppm)	After (mg/l) (ppm)	Removal Rate %
Aldrin (pesticide)	0.06	ND (0.001)	98
Aluminum	224	ND (0.7)	99+
Ammonia	49	19.4	60
Arsenic	0.076	ND (<0.002)	97
Barium	0.014	ND (<0.001)	93
Benzene	90.1	0.3590	99+
BOD ₅	1,050	14	98
Boron	4.86	1.41	70
Cadmium	0.13	ND (<0.004)	96
Calcium	1,321	21.4	98
Chlorpyriphos	5.87	ND (0.03)	99+
Chromium	139	ND (<0.1)	99+
Cobalt	0.12	0.0214	82
Copper	0.80	ND (<0.0020)	99+
Cyanide (free)	723	ND (<0.02)	99+
Cypermethrin	1.3	0.07	94
DDT	0.26	0.002	99+
Diazinon	34	0.21	99+
Ethyl Benzene	428	0.372	99+
Fluoride	1.1	0.415	62
Gold	5.72	1.38	75
Iron	68.34	0.19	99+
Lead	0.59	0.0032	99+
Lindane	0.14	ND (0.001)	99+
Magnesium	13.15	0.04	99+
Manganese	1.06	0.018	98
Mercury	0.72	ND (<0.003)	98
Molybdenum	0.35	0.029	91
MP-Xylene	41.6	0.057	99+
MTBE	21.58	0.0462	99+
Nickel	183	0.07	99+
Nitrate	11.7	2.6	77
Nitrite	21	12	42
Nitrogen TKN	1,118.88	59.08	94
NTU	35.38	0.32	99
O-Xylene	191	0.416	99+
PCB	0.0007	ND (<0.0001)	85
Petroleum Hydrocarbons	72.5	ND (<0.2)	99+

Contaminant	Before (mg/l) (ppm)	After (mg/l) (ppm)	Removal Rate %
Phosphate	28	ND (0.2)	99+
Platinum	4.4	0.68	84
Potassium	200	110	45
Propetamphos	80.87	0.36	99+
Selenium	68	38	44.
Silicon	21.07	ND (0.10)	99+
Sulfate	104	68	34
Silver	0.008	0.0006	92
Tin	0.213	ND (<0.020)	90
Toluene	28,480	0.227	99+
TSS	1,560	8	99+
Vanadium	0.262	ND (<0.002)	99+
Zinc	221	0.140	99+

Bacteria	Before (cfu) or (mpn)	After (cfu) or (mpn)	Removal Rate %
Bacteria	110,000,000 cfu	2,700 cfu	99+
Coliform	318,000,000 cfu	ND (<1) cfu	99+
E. coli	>2,419.2 mpn	ND (<0.01) mpn	99+
Enterococcus	83 mpn	ND (<10.) mpn	82
Total Coliform	>2,419.2 mpn	ND (<0.1) mpn	99+

Radioisotopes	Before (pCi/L)	After (pCi/L)	Removal Rate %
Americium-241	71.99 pCi/L	0.57 pCi/L	99+
Plutonium-239	29.85 pCi/L	0.29 pCi/L	99+
Radium	1093 pCi/L	0.10 pCi/L	99+

	Before mg/L	After mg/L	
Uranium	0.13 mg/L	0.0002 mg/L	99+

Dyes	Before (NTU)	After (NTU)	Removal Rate %
Ref. 006-691	125.1	12.1	90
Ref. 006-692	129.4	2.2	98
Ref. 006-854	68.30	0.68	99+
Ref. 006-851	2,340	4.5	99+

Notes: ND = Not Detected at the Reporting Limit
 mg/l = milligram per liter or part per million
 pCi/L = picocuries per liter
 cfu = colony forming unit
 mpn = most probable number
 NTU = Nephelometric Turbidity Units