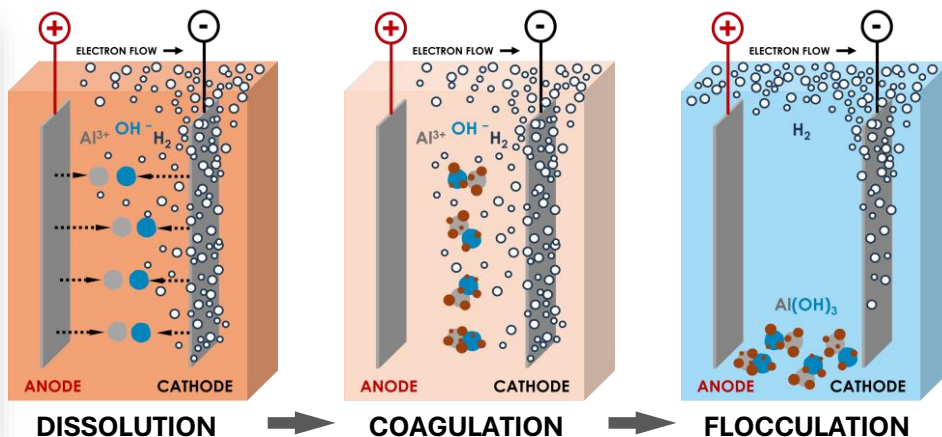


THE ELECTRIC FLOCCULANT GENERATOR



Portable, Chemical-Free Stormwater Treatment Solution

Electrical flocculation is a water treatment process that leverages electric current to destabilize and aggregate suspended contaminants. As current passes through metal electrodes, electrolysis induces the dissolution of metal ions into the solution. These ions undergo hydrolysis, forming coagulant species that facilitate the adsorption and entrapment of pollutants such as suspended solids, oils, and heavy metals. The resulting flocs settle gravitationally, allowing for efficient separation and removal.



The Electric Floc Generator efficiently removes a wide variety of pollutants.

TSS
suspended solids
76%

Fe
iron
73%

Cu
copper
80%*

Zn
zinc
33%

Cd
cadmium
60%

Pb
lead
82%

PO₄³⁻
phosphat
68%

SiO₂
silica
40%

* Below Detectable Limits

Product Features



Highly Effective



Compact & Scalable



Portable or Permanent



Energy-Efficient



Chemical-Free



Versatile



Safe



Automated Controls

Applications

Engineered to integrate seamlessly with existing stormwater management systems, enhancing their efficiency and effectiveness.



Construction Stormwater



Urban Stormwater



Agricultural Stormwater



Mining

Learn more at:
www.aub.ie/floc

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Fagan Consulting, in collaboration with Auburn University, is developing the Electric Flocculant Generator, with support from a Small Business Innovation Research contract awarded by the U.S. Department of Transportation, alongside supplemental grant funding from Innovate Alabama. Note that all performance results presented are preliminary. Patent pending.