

**Remediation of Motive Fuel Release Entering
Electrical Cooperative Building During Flood**
Location: Atlanta, Georgia
Client: Electrical Construction Company
Contract Cost: \$240,000+

PROBLEM

An major electrical cooperative experienced fuel entering its computer grid control building, electrical vaults, and elevator shafts during a flood. Fuel was also migrating offsite via a creek. The coop engaged Remtech Engineers to find the source and remediate the fuel.

SOLUTION

Remtech set up fuel recovery systems under the building and an interceptor trench with recovery wells to stop fuel from entering the building. Three containment/recovery points were also setup in the creek. Fuel was pumped into frac tanks and ventilation systems were set up to remove vapors from the building.

Test borings were conducted to locate the plume source. The responsible party was identified to be an upgradient electrical construction company who intern retained Remtech to find the source and remediate the problem.

Over five-acres were investigated with ground penetrating radar and metal detection equipment to attempt to locate an underground storage tank. No point source was found. Additional test borings and 35 test pits (converted into multiphase extraction wells) traced the fuel foot print to an underground culvert and preferential pathways that flowed towards towards the Coop building. The source was determined to be releases from motive fueling of the contractors equipment over many years that had accumulated in a low spot that flood waters flushed out.

Principal tasks completed by Remtech on this project were: installation of two lined interceptor trenches, 35 multiphase extraction trenches, seven recovery wells, recovery of 43,560 gal of petroleum contact water, recovery of 1,000 gal of pure fuel, and excavation of 440 tons of contaminated soil. The construction company brought in their corporate remediation company and excavated and disposed of several acres of contaminated soil to a depth of approximately eight feet.

COST/BENEFITS

At \$50,000 into the project, the responsible party was demonstrated to be an entity other than the Electrical Coop that initially engaged Remtech. The construction company complemented Remtech's aggressive containment and recovery actions that minimized their liabilities and ultimate cleanup costs.



Fuel Follows Floodwater into Building



Culvert Draining Fuel from Contractor Facility



Interceptor Trench Installed Next to Building to Stop Fuel Infiltration



Completed Interceptor Trench with Recovery Wells