

Building Permits Reinstated and Remediation System Installed During Building Construction Salvages \$16M Building

Location: Northern Georgia

Client: Major Publication Company

Contract Amount: \$270,000

PROBLEM

Construction on a \$16 M publication building was stopped for four months by the State Fire Marshal when building permits were revoked due to gasoline found in elevator shaft excavations. A geotechnical firm was initially engaged that indicated that there were thousands of gallons of gasoline under the footprint of the construction site.

SOLUTION

Remtech was engaged by the building owner to attempt to resolve the contamination problem and have building permits reinstated by the State Fire Marshal.

Remtech demonstrated that fuel in the fractured rock formation was hydraulically connected with minimal fuel production during pump tests. A Sandborne map was discovered in the attic of the city planners office that depicted a filling station located under the contractors construction trailer. The trailer was moved and a forensic excavation was conducted. No USTs were discovered, but remnants of an old pump island were located. Chemical linkage was established (by sampling) from the old tank pit to the fuel footprint demonstrating that the source had been removed.

Remtech prepared a remedial action plan that was accepted by the State Fire Marshal and County permitting officials that allowed construction on the building to resume during the plan implementation.

COST/BENEFITS

- Building permits reinstated and \$16M building completed
- Subfloor ventilation system and recovery wells integrated with building floor construction
- Remtech mobile groundwater treatment system used in final construction
- Remediated 600 cy of contaminated soils onsite during construction
- Recovered less than 150 gallons of free product and gasoline vapor levels under the building were reduced below 10% of LEL within 6 weeks and below detection limits within two years.



Completed Publication Facility



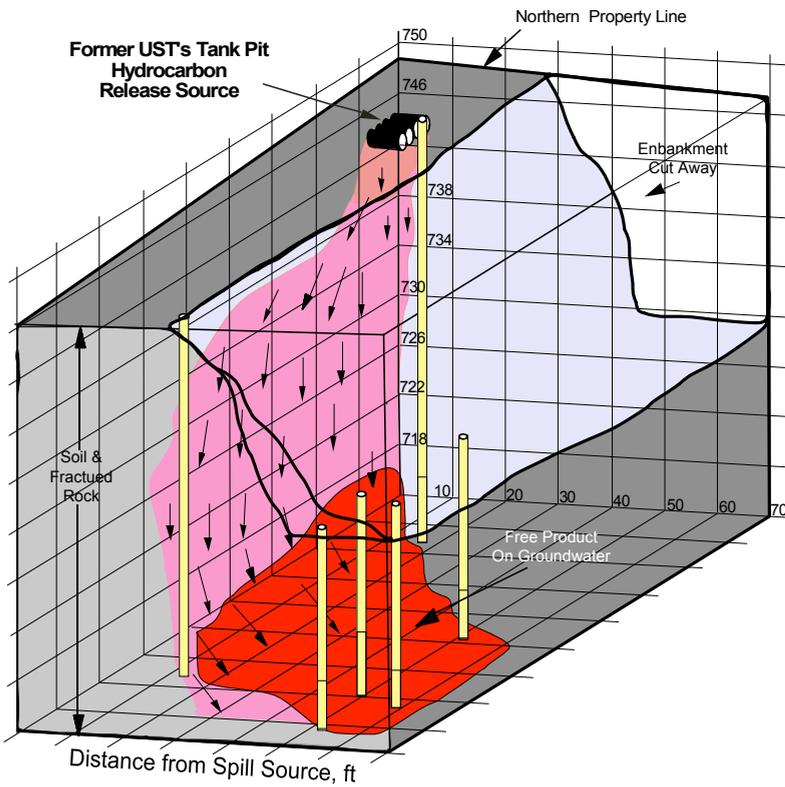
Contamination in Fractured Rock



Integrated Building Treatment System



Treatment System Housed in Bldg Annex



3D Source Contamination Contour Linkage



Subfloor Ventilation Network Installed in Gravel Under Membrane



Subfloor Ventilation and Vapor Membrane System



Rotary Percussion Drilling in Fractured Rock



Remtech BioVent & Ventilation System Housed in Building Annex



Remtech Groundwater Treatment System Housed in Building Annex