



ACTIVATED SODIUM PERSULFATE & PEROXIDE TREATABILITY STUDY

RETAIL GASOLINE STATION LAFAYETTE, INDIANA

Client:	Private Consulting Firm
Contaminants:	BTEX/MTBE and SVOC's
Impacted Matrix:	Soil and Ground Water
Scope of Work:	Modified Advanced Oxidation Technology (mAOT) Treatability Study and Source Area Treatment.
Oxidant:	Persulfates and Peroxides

Project Specifics: SESCOIENCES was contracted to design and implement a chemical oxidation treatability study within areas of historic benzene, MTBE, and SVOC's impact.

mAOT testing activities were implemented (during hours of business facility operation) over the course of three days utilizing proprietary oxidant/ catalyst mixtures in combination with Subterranean Hydrocarbon Oxidation Circulation (SHOC) in-situ delivery techniques.



Geochemical indicator parameters and contaminant concentration levels were monitored in "real-time" throughout the study and at scheduled intervals over the period of 90-days upon test completion.

mAOT treatability study activities provided the site specific parameters necessary for full scale chemical oxidation treatment design while simultaneously providing source area contaminant reduction (decrease of approximately 68%).

Current Site Status: **Full Scale Corrective Action Pending**