

EnSafe Inc. has the experience and capabilities to provide services in all phases of underground storage tank (UST) and aboveground storage tank (AST) management, from site characterization and remediation, especially in relation to petroleum and solvent USTs/ASTs, as well as the development of tank management programs, including spill prevention, control, and countermeasures (SPCC) planning to Integrated Contingency Plans and Facility Response Plans, spill drills, and training under the Oil Pollution Act of 1990 (OPA 90).

creative thinking. custom solutions.

FREE-PHASE RECOVERY

Rapid response to AST/UST releases is integral to minimizing long-term remediation costs and EnSafe commonly collaborates with local contractors to minimize delays and quickly stabilize the release. EnSafe is currently managing a fuel release associated with a hotel's emergency generator tank, which poses a risk to a nearby wetland. Through a combination of an emergency response soil removal and an expedited assessment of the free-phase extent in groundwater, a multi-modal free-product recovery system (low-pressure vapor extraction, dual-phase extraction, skimmers, petroleum traps, and manual bailing) was established to prevent offsite migration of the fuel release. Approximately 280 gallons of diesel fuel have been recovered with nearly all wells exhibiting only a sheen on groundwater today. The rapid response lessened the potential impact to the nearby wetland as evidenced in dissolved diesel-phase constituents being local only to the spill area. Through rapid investigative and remedial response and understanding free-product behavior, EnSafe is able to optimize free product recovery and groundwater remediation costs associated with fuel releases.

UST/AST INVESTIGATION & REMEDIATION

EnSafe has significant experience in managing the assessment, design, and remediation for contaminated sites, including those where the source of contamination is a UST/AST system. This experience has allowed our staff to successfully execute all phases of UST/AST site investigation and remediation management, including initial site characterization, environmental assessment, development of corrective action plans, design of remediation systems, installation and maintenance of remediation equipment, and preparation of monitoring reports and site-specific standard requests. In addition, EnSafe has extensive experience in writing permit applications, negotiating with regulators for air and water permits, often required for remediation systems. EnSafe has successfully managed many UST and AST sites from assessment to closure using a combination of innovative investigative tools (i.e., soil gas, membrane interface probes) which is key to site characterization and successful site remediation.

Professional geologists with registrations in multiple states
Hydrogeologists
Professional engineers with registrations in multiple states
Compliance specialists
Corrective Action Project Managers (Texas Leaking Petroleum Storage Tank program)

Innovative Technologies

Monitored natural attenuation
Solidification/stabilization/fixation
Soil vapor extraction (SVE)
Bioremediation
Air sparging
Groundwater containment
Groundwater pump and treat
Air stripping and carbon absorption
Low-temperature thermal desorption
Soil excavation, treatment, and disposal
Enhanced in situ degradation (anaerobic/aerobic sequencing)
Chemical oxidation
Funnel-and-gate technology
Permeable reactive barrier

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