

*Thousands of successful
environmental projects
and three decades
of serving the
oil & gas industry*



REMEDIAL SERVICES FOR THE OIL & GAS INDUSTRY

LBG's REMEDIAL SERVICES FOR THE OIL & GAS INDUSTRY

- Wellhead Cleanups
- Tank Batteries
- Historic Waste Disposal Pits
- Disposal Well Closures
- Gathering Pipelines
- Crude Oil Pumping Stations
- Natural Gas Compressor Stations
- Dehydration Units
- Transportation Pipelines
- Gas Processing Plants
- Gas Storage Facilities

Providing high-quality remediation services on oil & gas assets can only come from years of experience. Since the mid-1980's, Leggette, Brashears & Graham, Inc. (LBG), has conducted environmental remediation-related work on oil & gas production assets. Our knowledge extends to the assessment and clean-up of crude oil, condensate and produced water releases associated with wellheads, tank batteries, pipelines, compressor and pumping stations, gas processing plants, and gas storage facilities.

In fact, LBG is uniquely qualified to assist oil & gas companies in successfully characterizing and addressing environmental impacts at production facilities. We completed our first retail petroleum contamination project in 1953 and our first remediation project began in 1956.

Having years of experience in environmental cleanups at upstream petroleum sites, LBG is positioned to offer cost-effective services for sites located in the oil and gas producing states of the U.S. and abroad.



LBG'S REMEDIATION SERVICES FOR THE OIL & GAS INDUSTRY

Pipeline and Tank Battery Remediation

- Produced Water Releases
- Condensate Releases
- Crude Oil Releases

Oil & Gas Production Remediation

- Produced Water/Saltwater Remediation
- Mercury Remediation and Disposal
- NORM Monitoring and Remediation
- Surface Impact Cleanup at Wellheads
- Soil Remediation Around Tanks and Process Equipment
- Tank Battery Dismantlement and Remediation

Regulatory and Public Liaison

- Federal, State, and Local Agency Liaison
- Regulatory Compliance Management
- Surface Owners

Remediation of Hydrocarbon Impacts in Soil

- Surfactant-Enhanced In-Place Landfarming
- Soil Excavation and On-Site Landfarming/Off-Site Disposal
- Soil Mix and Till In-Place for Non-Sensitive Sites

Produced Water Soil Remediation

- Assessment of Sodium Levels in Surface Soils (CEC, ESP)
- Recommendations for Level of Remedial Treatment
- Calcium-Based Soil Amendments for Short-Term Remediation Requirements
- Gypsum and Organic Soil Amendments for Long-Term Remediation Requirements
- Revegetation and Monitoring

Groundwater Plume Closure

- Institutional Controls/Deed Restrictions
- Plume Management Zones
- Risk Assessment/Risk Reduction
- Groundwater Classification
- Monitored Natural Attenuation
- Groundwater Pump and Treat

Characterization of Chloride Contamination in Soil and Groundwater

- Electrical Conductivity Logging
- Field Chloride Sample Analyses
- Geochemical Sampling
- Geochemical Analysis
- Expert Witness
- Litigation Support
- Differentiate background from produced water

Free-Product Remediation

- LNAPL Technical Impracticality Demonstrations
- Surfactant Enhanced Product Recovery
- Multi-Phase Extraction
- Two-Pump Recovery Wells



Leggette, Brashears & Graham, Inc.

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