creating solutions for today's environment

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Above Ground & Underground Storage Tank Services

JBR Environmental Consultants, Inc. (JBR) has provided clients with wide-ranging services for hundreds of projects involving above ground storage tanks (ASTs) and underground storage tanks (USTs). JBR's established AST/UST program emphasizes a full-service approach tailored specifically for the customer. It can range from the installation and upgrade of ASTs and associated appurtenances, to environmental oversight during AST/UST demolition and removal, to site closure. JBR's broad and varied AST/UST experience allows for rapid evaluation of multiple aspects of a storage tank project. Best strategies are developed and employed early in the process, saving our clients both time and money.

Related Experience

JBR has managed a wide variety of AST/UST projects, including commercial fueling, bulk terminal, pipeline, and industrial process tank sites. Our clients include private and public property owners, tenants, purchasers and sellers, banks, major oil companies, and insurance companies. Our work has involved installing, assessing, removing, and decommissioning storage tanks inside buildings, in remote locations, on military bases, in national parks, and on numerous port and municipal properties in compliance with the applicable agency regulations. If environmental cleanup on these sites is required, JBR has the resources needed to conduct investigations and implement remedial actions using the most economical, yet technically sound, methods. Equipment such as our Geoprobe® system, company-owned and-operated soil vapor extraction system (SVE), dataloggers, and software systems minimize costs of site characterization and site remediation while maximizing the quality of information gathered. Our environmental cleanup experience includes the most current remediation methods, including vapor extraction, pump and treat for hydraulic control and containment, in situ and ex situ bioremediation, air sparging, and soil excavation.

AST & UST Services

Our team provides the following:

- Tank dispensing and leak detection systems installation
- Tank and piping upgrades
- Tank decommissioning and removal with environmental oversight
- Spill containment engineering and installation
- SPCC Plans and inspections
- Erosion and sediment control plans and inspections during construction
- Permitting (demolition, NPDES 1200C, etc.)
- Residual fuel and contaminated soil management for disposal
- Site investigations and feasibility studies
- Risk assessment
- Design, installation, and monitoring of groundwater and soil remediation systems
- Soil, soil vapor, and groundwater compliance sampling
- Alternative cleanup technology evaluations
- Oversight during soil excavation, grading, and backfill
- Site remediation and closure
- 3-D groundwater modeling to identify plumes from surface and subsurface spills; estimate time of release and probable migration; and evaluate groundwater well placement, pumping rates for remediation, and development of water quality projections for impact analyses
- Regulatory reporting

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Project Experience

Service Station AST Installation & Upgrades, Yellowstone National Park, WY

JBR was contacted by the Yellowstone Park Service Stations when the Old Faithful Yellowstone Park Service Station needed upgrading. JBR provided a Spill Prevention, Control, and Countermeasure (SPCC) Plan and then designed and installed new above ground storage tanks and an offloading spill pad. Working with park engineers, JBR upgraded the piping system with double wall piping and a leak detection system and installed new pumps with credit card readers. JBR also provided contractor services to upgrade seven more retail fueling facilities in Yellowstone Park with new double wall piping systems, double wall tanks, leak detection systems, spill containment systems, electronic credit card readers, dispensers, and associated operating equipment.

Soil & Groundwater Remediation, Wapato, WA

During decommissioning and removal of four USTs, two fuel dispenser islands, and associated piping at a TOC Holdings Co. property, a gasoline-range petroleum hydrocarbon release was discovered. The property is located on the Yakama Indian Reservation and falls under USEPA oversight. JBR supervised the excavation and removal of approximately 175 cubic yards of petroleum-contaminated soil (PCS) for placement in an on-site soil treatment cell. The vertical and lateral extent of PCS migrated beyond the expected excavation area. JBR supervised the installation of eight groundwater monitoring wells, initiated quarterly groundwater monitoring, and negotiated with USEPA on site-specific, risk-based soil and groundwater cleanup levels. JBR designed and installed an SVE system to remediate the PCS soil in the treatment cell and to treat in situ contamination. JBR requested and received a No Further Action Determination from the USEPA, allowing TOC to sell the property.

AST Tank Farm Decommissioning & Environmental Oversight/Investigation, Portland, OR

JBR provided environmental oversight during the decommissioning of two AST farms at the former TOC Holdings Northwest Terminal. Prior to demolition, JBR acquired the necessary permits and prepared the contractor construction specifications. JBR provided environmental oversight during demolition and removal of 36 ASTs, associated pipelines, and other appurtenances; decommissioning of the stormwater treatment system including removal of three underground stormwater containment tanks; reconfiguration of the onsite groundwater treatment system; management and observation of best management practices (BMPs) by JBR's certified erosion and sediment control inspector; demolition debris and contaminated soil management; waste characterization sampling; and evaluation of data for disposal. JBR also conducted an investigation to assess post-demolition soil conditions in the former AST areas. Throughout the process, JBR negotiated with Oregon DEQ and the city of Portland to keep the project on schedule with completion in 4 months.

Xanterra Parks and Resorts, WY

JBR provided project management and construction services to upgrade boiler system fueling regulatory requirements in Yellowstone National Park at Old Faithful, Lake Hotel, and Lake Lodge with new tanks, a double wall piping system, and leak detection system. JBR provided upgrades to a marine fueling system at Bridge Bay Marina which included installation of tanks, a double wall piping system, dispensers, and a leak detection system. Installation and upgrades to the fleet fueling system were provided at the Old Faithful Bus Barn for operation of snow coaches and tour buses. JBR also installed upgraded fueling systems for emergency generators in Yellowstone Park.