



creating solutions for today's environment

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Site Assessment & Site Investigation

JBR Environmental Consultants, Inc. (JBR) performs comprehensive, practical assessments of the environmental condition and potential liabilities of residential, commercial, and industrial sites. Site investigations are completed with a thorough understanding of the data needed to complete risk assessments and remedial design. JBR's Phase I ESA's meet the US Environmental Protection Agency's All Appropriate Inquiries criteria and the associated ASTM E 1527-05 standard.

Project Experience

Multiple Phase I ESAs for a Major Agricultural Supplier

JBR provided Phase I Environmental Site Assessments (ESAs) at 10 grain-loading and off-loading facilities and seed-treating plants. This project was necessary to allow the property owner to satisfy one of the requirements for the innocent landowner defense under CERCLA (Superfund) liability. These ESAs were performed under a tight schedule using ASTM E 1527-05 standards.

Sediment & Shellfish Sampling, Central Dock, Coos Bay, OR

JBR personnel worked with Hall-Buck Marine to collect and analyze sediment and shellfish samples from Coos Bay near the Central Dock facility in Coos Bay, Oregon. The purpose of the sampling program was to assess whether or not sediment and shellfish in Coos Bay were adversely affected from the shipment of copper ore concentrate from the dock facility. Samples were tested for priority pollutant metals, trace metals, and indicator metals. The analyses were compared with metal concentrations presented by the National Oceanic and Atmospheric Administration as representative of low (Effects Range-Low [ER-L]) and median (Effects Range-Median [ER-M]) for potential biological effects.



Services

- Phase I ESAs
- Phase II ESAs (site investigations)
- Due diligence investigations
- Property condition assessments
- Facility inspections and waste sampling
- Release investigations
- Complete characterization of the extent and magnitude of environmental impacts
- Contaminant fate and transport modeling
- Risk assessments (ecological and human health)

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Project Experience

Multiple Phase I ESAs for a National Steel Manufacturing Company

JBR was contracted by a premier national steel company to perform both Phase I and Phase II ESAs at five scrap steel recycling facilities in the Salt Lake City and Denver areas. Potential issues at the sites included petroleum, chlorinated solvents, PCBs, heavy metals, and radiological materials. Coordination and confidentiality were of the utmost importance for these key potential purchases. Based on JBR's Phase I reports, Phase II investigations were planned and executed to determine the nature and extent of potential contamination. JBR followed up by developing cost estimates for site cleanup on each site to assist our client with purchase price, planning, and seller negotiations.

Multiple Phase I ESAs for a Major National Retailer

JBR successfully performed Phase I ESAs at over 20 sites for one of America's major retail chains. ESAs were performed under client confidentiality. The ESAs were assigned, and the final product was required, under tight deadlines. JBR recommended follow-up investigations of many of the sites, tailoring the activities to the likely contaminants of concern and areas most likely impacted. Subsequent investigations included soil and groundwater sampling, asbestos sampling, and oversight of the removal of waste oil and other materials. JBR developed a Solid and Hazardous Waste Management Plan for one of the sites to guide construction managers on the proper way to deal with both known and unknown materials at the site. All Phase Is were completed on time and to our client's complete satisfaction.

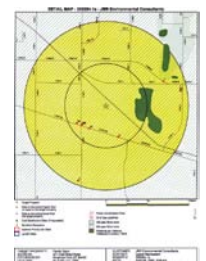
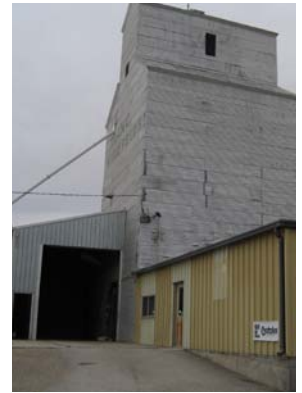
Site Assessment & Remediation of a Jet Fuel Spill at Salt Lake City International Airport, UT

JBR provided technical support and collected samples during the cleanup of jet fuel released during an incident at the Salt Lake City International Airport. JBR was contracted by the excavation company responsible for the cleanup and assisted with negotiations between the airport, the insurance company, and the Utah Department of Environmental Quality. A JBR engineer was present during the overnight excavation and fill activities to screen for remaining contamination using a photo ionizing detector and to collect confirmation samples from the areas deemed clean. The large area of potential contamination required skilled and experienced staff to accurately characterize and ensure any residual jet fuel was well below both regulatory benchmarks and airport criteria. JBR assisted the excavation contractor with completing the project on schedule and with well-documented evidence that the assessment criteria had been successfully considered.

Investigation Programs

Our staff of engineers and hydrogeologists can quickly design site investigation programs to determine the presence and extent of contamination in soil and groundwater.

- Surface sampling to identify localized soil contamination
- Subsurface borings to identify the vertical and horizontal extent of contaminants
- Installation of monitoring wells to assess impacts on groundwater quality
- Direct-push soil probing for subsurface soil sampling, water sampling, and small diameter monitoring wells



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