



creating solutions for today's environment

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Solid & Hazardous Waste Management

JBR Environmental Consultants, Inc. (JBR) has extensive experience with both solid and hazardous waste management and in Resource Conservation and Recovery Act (RCRA) services. We assist clients in assessing and monitoring waste streams; ensuring appropriate storage, labeling, handling, and disposal of hazardous wastes; and training staff in proper handling and record-keeping procedures. JBR has produced Solid and Hazardous Waste Management Plans (SHWMPs) for the majority of large mining operations and coal-fired power plants throughout the West.

JBR has developed an Electronic Incident Response Manual® that includes state-of-the-art, innovative software designed for safety and health professionals, facility management, supervisors, and other emergency personnel. We custom design the software for the individual needs and unique characteristics of each facility. JBR's software allows our clients to have instant access to all of the critical information necessary to successfully respond to and manage facility emergencies or environmental incidents.



Project Experience

Toxic Release Inventories, Multiple Projects

JBR has performed Toxic Release Inventories (TRIs) for numerous facilities since 1998. This Emergency Preparedness Community-Right-to-Know (EPCRA) regulation requires qualifying industries to annually disclose their release of listed 'toxic' chemicals to the environment. JBR has provided TRI services to some of the largest mining facilities in Utah and Nevada. We have also provided TRI services in Alaska, Washington, Wyoming, Idaho and Colorado. JBR is adept in exemption determinations, threshold calculations, release computations, self disclosure of necessary changes to previous years' reports, and Form R electronic submittals. Our current and past clients include: Barrick North American, Newmont Mining, Glamis Gold, Brush Resources, Bowie Resources, Pend Oreille, and Ash Grove Cement.

Solid & Hazardous Waste Services

- Compliance audits
- Facility investigations
- Waste inventories
- Waste stream characterizations
- Waste handling and disposal management
- Waste management plans
- Emergency response plans
- Personnel training
- Preparation of incident response manuals
- EPCRA-Toxic Release Inventories

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Project Experience

SHWMP for a Confidential Utility

JBR worked closely with corporate and facility professionals to develop and implement compliant SHWMPs for eight coal-fired and seven gas-fired generation facilities located in the Rocky Mountain West. As a first step, JBR developed a template SHWMP for a coal-fired facility and one for a gas-turbine facility. JBR then provided third-party review of the remaining plans produced at each facility. These comprehensive plans addressed all the necessary steps required for an applicable and functional SHWMP, including:

- Reviewing site-specific waste characterization and management procedures
- Reviewing and improving personnel training programs
- Updating waste characterization, record-keeping, and reporting procedures
- Providing site-specific layouts, drawings, and process flow diagrams
- Reviewing and improving waste streams handling methods
- Developing preparedness and prevention contingency plans

Once the template plans were developed, JBR provided input and further waste characterization for each of the remaining 13 generation plants. Each facility had exclusive challenges and specific contingencies that required unique attention in order to have a site-specific functional plan.

SHWMP for a Mining Operation, CO

JBR prepared a SHWMP for an in situ leach salt mining operation on the Colorado Plateau. JBR services included:

- On-site identification of waste streams and review of current management practices
- Characterization of wastes and generator status determination
- Development of:
 - » Waste management strategies
 - » Inspection and record-keeping procedures
 - » Contingency plan
 - » Training requirements and waste minimization strategies
- Preparation of a draft SHWMP
- Review of the plan with facility personnel for feasibility determination
- Incorporation of comments and procedural changes into the final SHWMP
- Implementation of the plan and training at the facility

The project had several challenges due to the potential amount of waste generated by in situ leaching and the location of nearby streams. JBR worked with facility professionals to produce a workable product; implementation of the SHWMP required many of JBR's procedures and improvements. The client deemed the plan well organized, user-friendly, and applicable to the situation.

SHWMP

The Solid and Hazardous Waste Management Plans prepared by JBR fulfill key operational objectives including:

- Consolidating all required hazardous waste documentation
- Creating a user-friendly guide that directs handling and management procedures for all solid and hazardous wastes
- Ensuring regulatory compliance with complex federal and state regulations
- Creating a functioning waste management program

