



creating solutions for today's environment

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## Geothermal Industry Services & Experience

JBR has over 20 years of experience providing environmental services at more than 30 geothermal exploration, development, and utilization projects in the West. This work has included feasibility studies, initial baseline studies, Operation Plans, National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) compliant documents, well permitting, Hydrologic Monitoring Plans, and full permitting for new geothermal power plants and associated transmission lines, pipelines, and access roads. JBR has also provided compliance audits, environmental monitoring, emissions testing, spill control plans (SPCC), and Compliance Inspection Contractor (CIC) and permit amendment services for operating geothermal plants. This experience gives us a solid understanding of the technical and environmental challenges facing the geothermal power industry in the West. Our geothermal clients include Ormat, Magma Energy, Nevada Geothermal Power, Gradient Resources, and U.S. Geothermal.



### Electric Power Industry Experience

JBR has over 20 years of specialized work experience with the electric power industry. We have worked at over 70 electric power-generating stations and hundreds of transmission and distribution facilities. Our historical client list includes regulated and non-regulated power providers, from small rural companies to the largest utilities in the West. This experience gives us a solid understanding of operational and engineering constraints, as well as public concerns and ways to address them.

### NEPA & CEQA Experience

JBR has completed more than 250 environmental analyses including Environmental Assessments (EAs), Environmental Impact Statements (EISs), and Environmental Impact Reports (EIRs) under both NEPA and the CEQA for projects throughout the West. We have a successful track record of preparing legally defensible, comprehensive, and technically sound documents pursuant to NEPA and CEQA. We have worked for numerous federal agencies, including the Bureau of Land Management (BLM), the Environmental Protection Agency (EPA), the U.S. Fish and Wildlife Service (USFWS), the U.S. Forest Service (USFS), the National Park Service, the U.S. Army Corps of Engineers (USACOE), and the Bureau of Indian Affairs (BIA). JBR has also worked closely with State Environmental Quality and Wildlife Departments and Historic Preservation Offices in Nevada and Utah.

### Geothermal Services

- NEPA & CEQA Compliance Documents
- Regulatory Compliance & Permitting
- Ecological Baseline Studies
- Threatened & Endangered Species (TES) Studies
- Air Quality Modeling, Permitting, & Monitoring
- Surface & Groundwater Management
- Cultural Resources Studies & Clearances
- Geology & Hydrogeology
- Construction Compliance Monitoring
- Environmental Compliance Audits
- Transmission & Pipeline Routing Studies
- Remediation & Site Closure
- Visual Resource Assessments
- BMP Training & Inspections
- Power Plant Safety Audits
- Environmental Health & Safety Training
- Solid & Hazardous Waste Management
- Environmental Due Diligence

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Denver, CO - 303.968.6774

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Billings, MT - 406.256.3829  
Butte, MT - 406.723.7980

Missoula, MT - 406.926.2132  
Elko, NV - 775.738.8766  
Reno, NV - 775.747.5777

Medford, OR - 541.770.6977  
St. George, UT - 435.652.8301  
Seattle, WA - 425.977.4994

## Project Experience

### Tuscarora Geothermal Project, Independence Valley, NV

The Tuscarora Springs Geothermal Project in northeast Nevada consists of exploration activity, drilling of production and injection wells, permitting for an initial 15 MW power plant, and construction of a 24-mile transmission line, including an EA for the transmission line. JBR obtained the necessary environmental permits; conducted baseline investigations; coordinated with federal, state, and local agencies; completed a groundwater resources investigation to find cooling water sources; monitored and managed drilling activities for the groundwater investigation; and provided support for a variety of other activities at the site.

### Drum Mountains and Whirlwind Valley Geothermal Exploration Projects, Delta, UT

Ormat Technologies, Inc. proposed exploration drilling on several of its geothermal leases in the Drum Mountains and Whirlwind Valley areas of Juab and Millard counties in Utah. JBR prepared Operations Plans for submittal to the BLM Fillmore Field Office and conducted baseline field surveys for cultural resources, wildlife habitats, and special status species. JBR then prepared the EA on both of the Operations Plans to analyze the potential impacts on and off-lease of exploration operations including access roads, up to 27 exploration drill pads for temperature gradient, observation and production wells, personnel camps, gravel sources, and water supply wells.

### Magma Energy (U.S.) Corp. Environmental Assessment, Soda Lake, NV

The Soda Lake property is located approximately six miles northwest of Fallon, Nevada, and has two operating geothermal power plants. Magma wants to explore additional geothermal resources within the vicinity of its existing facilities. JBR conducted field surveys for TES plant and wildlife species, noxious weeds, and general vegetation and wildlife. JBR then used this information to prepare an EA for multiple drill pads and associated access roads. These pads are to be used to drill and test observation wells and drill production wells.



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## Project Examples

- **Geothermal Power Plant, CA** - Emissions Testing
- **Gradient Resources Patua Geothermal Plant, NV** - SPCC, Continuous Emissions Monitoring (CEM), Phase I ESA, & CIC Services
- **Magma Energy McCoy II, NV** - NEPA/EA
- **Magma Energy Soda Lake, NV** - NEPA/EA
- **Nevada Geothermal Operating Company Blue Mountain, NV** - Noise Measurements, SPCC, & Visible Emissions Observations (VEO)
- **Ormat Leach Hot Springs, NV** - Operations Plan, Biological Surveys, EA, & Hydrological Monitoring Plan
- **Ormat McGinness Hills, NV** - TES Plant Species Surveys & Noise Monitoring
- **Ormat Desert Peak, NV** - TES Survey
- **Ormat Jersey Valley, NV** - CIC Services
- **US Geothermal, NV** - GIS Mapping

