



creating solutions for today's environment

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Air Quality Permitting, Modeling, Monitoring, & Management

JBR Environmental Consultants, Inc. (JBR) and newly merged Applied Environmental Consultants provide comprehensive air quality services, from initial facility planning to source retirement. Our technical professionals have the expertise and experience in air quality regulations to successfully resolve permitting and compliance issues for all types of industrial facilities. Our recently added source monitoring and ambient monitoring capabilities broaden our compliance and permitting qualifications. Our clients have consistently achieved their planning and permitting objectives while maintaining regulatory compliance with the help of the cost-effective solutions developed and implemented by the technical and project management staff at JBR.

Air Quality Services

Air Dispersion Modeling/Impact Analysis

- AERMOD, CALPUFF, CALMET
- SCREEN3, Gly-Calc, HAP-Calc, E&P tanks
- Mobile source modeling

Air Quality Compliance Audits

- Monitoring, record keeping, and reporting
- On-site evaluations
- Compliance certification templates

Ambient Air Quality Monitoring

- Monitoring exemption evaluations
- Monitoring system placement evaluations
- Monitoring equipment installation
- Auditing
- Data collection and reporting
- Agency liaison

Emission Inventories

- Annual reporting
- Permitting and "netting" evaluations
- Minor source
- Conformity analysis

Emission Source Monitoring (Stack Testing)

- All common EPA, CARB, AQMD, and other approved methods
- Specialty stack testing

Greenhouse Gas & Carbon Footprint Analysis

- Applicability evaluations
- Monitoring plans
- Reporting



Meteorological Monitoring

- System and site evaluations
- System installation
- System operation and reporting
- Turnkey services for larger structures
- Agency liaison

Operating Permit Applications & Construction Permits

- Major and minor New Source Review permits
- Part 70 and 71 permits
- Minor source Title V
- Permit modifications
- Permit renewals

Regulatory Analysis, Planning, Guidance, & Negotiations

- Applicability determinations
- Permitting strategies
- Emission banking, offsets, and credits
- Regulatory negotiations
- NEPA-air resources

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Reno, NV	775.747.5777

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

Project Experience

Salt Lake City International Airport Air Quality Services, UT

JBR has been providing air quality services to the Salt Lake City Department of Airports since 2000. Salt Lake City International Airport is required to comply with the Federal Aviation Administration (FAA), the Environmental Protection Agency (EPA) regulations, and the State of Utah's Air Quality Division. JBR prepared several permit modifications, performed compliance investigations, and developed emission inventories. Because federal funds are used for airport projects, JBR assured construction improvement project or equipment upgrades demonstrated compliance with "Conformity" rules under the Clean Air Act.

Precious Metals & Other Mining Operations

JBR has been providing continuing air quality services to numerous mining clients including gold, silver, copper, beryllium, coal and other commodities since 1988. As a result, JBR has developed a complete understanding of such mining operations and applicable regulations that apply to such facilities and support operations. Services provided by JBR to its mining clients have included meteorological and ambient air quality monitoring for existing and proposed new mines; permitting of new mines; modifications to existing mining operations; air impact analyses for both permit applications and Environmental Impact Statements (EIS); emission source testing of various operations; and preparation of dust control plans. Emission inventories have included not only those of typical mining operations but also non-conventional sources such as mobile source tailpipe emissions for EIS analyses.

Ambient Air Quality & Meteorological Monitoring

JBR provides complete ambient air quality, meteorological monitoring, and data processing services. Site-specific data is critical to air impact analyses since off-site data is frequently misrepresentative of local conditions, resulting in unrealistic impacts. JBR's most recent meteorological monitoring system is a solar-powered, 60-meter tower instrumented at three levels with data telemetered directly to the client's offices and downloaded to PCs. Instrumentation on the tower is mounted on separate elevator systems that can be lowered to ground level for safe maintenance, calibrations, and audits.

Air Quality Services for Brush Resources, Inc., UT

Brush Resources, Inc. operates the only beryllium mine and mill in the western hemisphere. The JBR Team has provided full air quality services for Brush Resources, Inc. for the past 18 years. We have completed numerous New Source Review (NSR) applications, emission inventories, Risk Management Plans (RMPs), and renewals. JBR provided the initial ambient air system design and the continued compliance assistance for the 40 CFR Part 61, Subpart C, National Emission Standards for Hazardous Air Pollutants (NESHAPs) for beryllium. The first issued Title V permit in Utah was a result of JBR working closely with plant personnel in the submittal of a complete application. In turn, JBR worked closely with Utah Division of Air Quality to help develop the contents and determine the criteria for the first Title V renewal application in the state.

Industry Experience

- **Electric power plants**
(coal, natural gas, biofuels, solar, hydro)
- **Oil & gas facilities**
(refineries & production facilities)
- **Mines & mineral processing facilities**
(gold, silver, copper, beryllium, coal)
- **Recycling operations**
(steel mini mills, paper, rendering)
- **Aggregate & asphalt processing plants**
- **Pipelines & compressor stations**
- **Bulk petroleum & chemical storage facilities**
- **Cement production facilities**
- **Lime production & related processes**
- **Manufacturing facilities**
- **Wood products industry**
- **Food production plants**
- **Transportation projects**
- **Airports**
- **Highway projects**
- **Municipalities**
- **Waste water treatment plants**



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