

# Environmental Compliance

Air Resource Specialists (ARS) provides comprehensive permitting and compliance support to industrial, commercial, and governmental clients.



Our expertise covers a broad range of small to large manufacturing, fabrication, and extractive industries.

- Identify permitting needs
- Assist compliance with evolving requirements of:
  - Clean Air Act
  - Clean Water Act
  - State/local regulations

## Clean Air Act Services

- Identify when air quality permits are necessary for new or modified facilities
- Provide technical analyses for permit applications
- Define applicable and non-applicable regulations
- Quantify emissions
- Dispersion modeling and impact assessment
- Select appropriate emissions abatement practices
- Negotiate permit language
- Recommend and implement strategies for ongoing compliance monitoring
- Provide expert testimony



## Clean Water Act Services

- National Pollutant Discharge Elimination System (NPDES) Permitting, including direct discharges, pre-treatment permitting, and storm water
- Storm Water Pollution Prevention Plans (SWPPPs) for both Construction and Industrial Sources including Notices of Intent (NOIs)
- Spill Prevention Control and Countermeasure (SPCC) Plans
- Spills and Releases Reporting and Recordkeeping
- Facility Response Plans (FRPs)



## Greenhouse Gas (GHG) Services

Clean Air Act

- Perform baseline GHG emissions inventories
- GHG reporting and recordkeeping – Compliance with EPA's Final Mandatory Reporting of Greenhouse Gases Rule
- Track GHG emissions and effective data management
- Assist with applicable regulatory and/or GHG permitting requirements



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## Greenhouse Gas (GHG) Services (continued)

Carbon Lifecycle Assessment (LCA) and Climate Change Management

- Determine carbon footprint - quantify the amount of greenhouse gases emitted by a facility or accumulated over the lifecycle of a product or service
- Develop climate change and GHG management plans
- Create and define overall strategy, objectives, protocols, and documents
- Evaluate mitigation options and carbon costs/benefits (includes technology modifications, switching fuels, energy efficiency improvements, and market tools (carbon offsets, credits))
- Rank options considering cost and potential future carbon costs/benefits

## Dispersion Modeling and NEPA Planning

- Support Clean Air Act Construction, Operating, and PSD permits
- Support EIS and regional assessments of source impacts
- Apply appropriate model and modeling approach for each project
- Compile emission calculations and air emissions inventories
- Conduct air dispersion modeling of short-range and long-range impacts
- Evaluate multiple NEPA development scenarios
- Respond to technical questions at public hearings



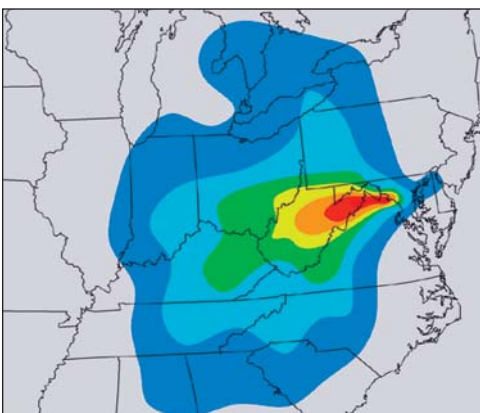
## Emissions Inventories

- Emissions quantification of industrial and commercial pollution sources for:
  - Annual reporting
  - Emissions fees payment
  - Emissions calculations for common industrial sources, complex sources, and large-scale construction projects subject to NEPA requirements
- Emission calculation spreadsheets and instructions facilitate increased self-sufficiency on future inventories



## Audits / Compliance Assistance

- Provide clients with skills and tools to internally manage day-to-day environmental compliance
- Provide independent and confidential assessment of air and water quality compliance
- Support industry corrective actions before official regulatory inspections
- Confidential reports identify compliance requirements and list recommendations
- Summarize complex permit language into convenient checklists
- On-call for support as needed for compliance and report requirements



## Expert Testimony

- Clarify the meaning and implications of air quality regulations and permits
- Quantify the precision and accuracy of air quality data, emission inventories, model results, and other parameters used in analyses
- Explain data collection, data analysis, and modeling methods and the appropriateness of the methods selected for a specific analysis
- Present air quality emission calculations and modeling assumptions and the implication of the assumptions on model results
- Interpret air quality data and modeling results
- Compare similar analyses and outcomes
- Describe analytical and permitting timelines and milestones relative to specific applications