Ethanol Industry Services

"Pinnacle's approach to serving the renewable fuels industry is straightforward: Free our clients to focus on production."

Services:

- **Air Quality Compliance**
  - Air Quality Permitting & Variances
  - Air Dispersion Modeling
  - Stack Testing Management
- **Water Quality Compliance**
  - Water Appropriations Permitting
  - Waste & Storm Water Permitting
  - Waste Water Treatment Studies
- **Hydrology and Hydrogeologic Engineering**
  - Water Supply Source Analyses
  - Aquifer Response Testing
  - Well Siting and Design
- **Environmental Engineering**
  - Wetland Delineations & Mitigations
  - Phase I/II Environmental Assessments
  - Fatal Flaw Analyses
- **Geotechnical Investigations**
  - Soil Borings
  - Engineering Reports
  - Deep Foundation/Piling Analyses
  - Foundation Evaluations
- **Operations Compliance**
  - Customized Compliance Programs
  - Regulatory Negotiations
  - Public Affairs
  - Public Compliance Reporting
- **Process Engineering**
  - Facility Engineering Services
  - Asset Evaluations
  - Code Compliance

Our Approach:

Pinnacle's three divisions, Industrial, Process and Environmental engineering, provide a unique set of services to our expanding client base. Our highly trained engineers and staff ensure that your facility is in compliance with current regulations. We work on our client's side of the table to serve their best interests.

Benefits To You:

- Pinnacle's guidance and knowledge of air emissions testing, air permit modifications, regulatory negotiations, continuous air emissions control technology, and general environmental permitting eases staff workload and provides technical professional support in dealing with compliance issues and regulatory negotiations.

- Pinnacle's process and stack testing expertise allows us to focus on process optimization to achieve environmental compliance. A performance test can become a tool for operating your facility at a higher efficiency and lower costs.

Pinnacle Solutions:

- Pinnacle's emission testing experience helps determine test methods that return the most value. During an engineering test at an ethanol plant to determine the optimum thermal oxidizer combustion temperature, real-time HAP's analysis of the exhaust demonstrated the system was not in compliance with the facility's air permit. Real-time results allowed a combustion specialist to quickly diagnose the problem. The thermal oxidizer was repaired and easily passed a subsequent performance test.
- **Our client login portion of our web site** is an internet-based solution for managing environmental compliance. Clients access compliance records, permits, daily O&M requirements, and any custom information needed through their dedicated site.

Pinnacle Engineering

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