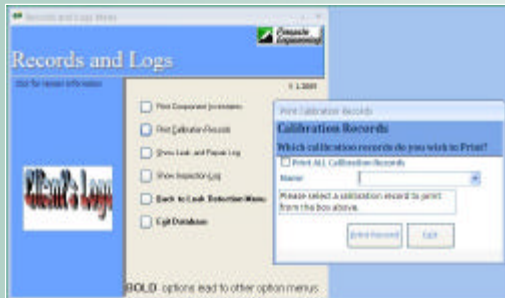


Leak Detection and Repair Programs

*“Are you keeping accurate records?
Is your current LDAR monitoring and record keeping in compliance?”*



Pinnacle's LDAR database program has a user-friendly computer interface.

SERVICES:

Gap Analysis

- Subpart VV or VVa compliance
- EPA Method 21 compliance

LDAR Database Program Development

- New LDAR program implementation
- Modifying an existing LDAR program
- Updating a program from VV to VVa

EPA Method 21 Training

- Calibration procedures
- Correct calibration compound and concentration

Subpart VV and VVa Training

- Leak thresholds
- Monitoring requirements
- Triggers for change
- Recordkeeping changes

Webinars

- First 1 hour webinar FREE (Introduction to database)

OUR APPROACH:

The many regulations and record keeping requirements for New Source Performance Standard (NSPS), Subpart VV (40 CFR 60.480), and Subpart VVa (40 CFR 60.480a) make it difficult for facilities to retain fully compliant, accurate records when implementing and maintaining a Leak Detection and Repair (LDAR) program. Pinnacle has developed a simple solution in a user friendly database that makes it easy to track LDAR program information to maintain compliance.

Pinnacle's LDAR database program can be easily incorporated into a facility's current system by integrating a current LDAR program into the database format remotely, or coming onsite to do a complete program implementation. In addition, Pinnacle can provide a gap analysis to determine if a facility's current LDAR program is in full compliance with Federal Regulations.

BENEFITS TO YOU:

- Pinnacle's database keeps important records readily accessible and organized, and allows facility managers to plan inspections at appropriate times.
- Pinnacle's understanding and experience of Subpart VV, VVa and EPA Method 21 allows for a quick and cost effective gap analysis for any LDAR program.
- We can assist facilities with meeting tight implementation deadlines.
- Pinnacle can provide onsite hands-on training involving: when to monitor, how to properly monitor, calibration of the monitoring instrument, and database training.
- Pinnacle provides various methods of customer support, you pick the one that works for you. You can call, e-mail, or participate in a webinar with Pinnacle personnel.

PINNACLE SOLUTIONS:

Pinnacle has experience implementing LDAR programs for clients in Minnesota, Wisconsin, Iowa, North Dakota, South Dakota, Nebraska, Kansas, Idaho, Oregon, and California.

Pinnacle's database has simplified record keeping tasks for a number of ethanol clients, and assisted them in achieving compliance with air permitting requirements. Program solutions include developing a program for a facility with no existing LDAR program, incorporating upgrades into an existing LDAR program, and updating a program from Subpart VV to Subpart VVa.

Innovative Thinking. Cost Effective Solutions.

Pinnacle Engineering provides a broad range of expert advice for industrial, financial, developer and municipal partners.



INDUSTRIAL SERVICES

Air Quality Services

- Air emission control
- Process engineering
- Air toxics/dispersion modeling
- Process optimization
- Stack test management
- Air quality permitting & variances
- Regulatory negotiations

Ethanol/Renewable Energy Services

- Air quality compliance
- Water quality services
- Hydrology/Hydrogeologic Engineering
- Environmental permitting/compliance
- Information management

Hydrology/Hydrogeologic Engineering

- Water supply source analyses
- Aquifer response testing
- Well siting & design

Environmental Compliance

- Auditing
- Environmental Management Systems (ISO 14000)

Information Management

- Internet-based data management

Industrial Hygiene

- Indoor air quality testing
- Mold assessment/remediation
- Water intrusion/moisture control
- Employee exposure monitoring
- Noise surveys
- Confined space classification
- HVAC inspections

Health and Safety

- Program development/training
- Loss control/injury prevention
- H & S management systems
- Process safety management (PSM/RMP)

Water Quality Services

- Water/wastewater treatment
- Pollution prevention plans
- Wastewater treatability studies
- Wastewater discharge permitting

ENVIRONMENTAL ENGINEERING

Site Investigation and Remediation

- Remedial investigation/site assessments
- Clean-up & corrective action designs
- Voluntary Investigation & Clean-up (VIC) Program
- Voluntary Petroleum Investigation & Clean-up (VPIC) Program
- Monitoring well sampling

Brownfield Redevelopment

- Regulatory coordination
- Site investigations
- Historic reviews
- Liability protections
- Funding review & assistance

Property Transfer

- Background reviews
- Site assessment: transaction screens
- Phase I site assessments
- Phase II site investigations
- Third-party reviews
- Property transfer documentation
- Public funding review
- Site clean-up

Ecological/Wetland Services

- EAW/EIS preparation
- Wetland delineation studies
- Wetland design & construction
- Flora/fauna inventories
- Historical/archeological investigations

Geotechnical Engineering

- Soil & groundwater investigations
- Engineering reports
- Surveying
- Foundation/paving design
- Construction inspection & materials testing

Telecommunication Services

- Property transfer
- Boundary surveys
- NEPA checklists
- Geotechnical assessments
- Construction testing/special inspections
- Section 106 (NHPA) evaluations
- Environmental assessments



Land Development/Redevelopment

- Geotechnical engineering
- Wetlands (delineation, mitigation, permits)
- Site investigations (Phase I/II)
- Site remediation
- Environmental reviews (EAW,EIS, AUAR)
- Liability assurance
- Funding review & assistance

Storage Tanks

- Regulatory compliance audits
- Pre-removal site assessments
- Site investigations/Remedial services
- Tank removals/upgrades
- Funding reimbursement assistance

Water Resource Services

- Dredging/Permitting
- Sediment & wildlife surveys
- Wetlands delineation/mitigation
- Storm water planning

Mold & Water Intrusion Services

- Mold/Water assessment & remediation
- Moisture control
- Immediate response

Asbestos & Pre-demolition Services

- Asbestos surveys & abatement
- Lead surveys & abatement
- Indoor air quality testing
- Building & Pre-demolition surveys

PROCESS ENGINEERING SERVICES

Facility/Plant Engineering

- Wastewater treatment
- Water reuse and segregation
- Cleaning and pretreatment
- Electro finishing
- Surface coating
- HVAC design and modifications
- Fire code reviews
- Chemical process design
- Project management