



- SERVICES**
- Investigations
  - Remediation Project Design
  - Bid Services & Contract Administration
  - Expert Witness
  - Mold
  - Bacteria
  - Volatile Organic Compounds
  - Particulate Identification
  - Formaldehyde
  - Radon
  - Hydrogen Sulfide & Sulfur Dioxide
  - Moisture Testing
  - Ventilation System Evaluation

## Service Overview

Nova has significant experience in performing Indoor Air Quality (IAQ) evaluations, monitoring IAQ remediation projects, developing corrective engineering procedures, training employees, and performing periodic audits. Sampling and testing can be performed to measure exposure to airborne microbiological contaminants, chemical hazards, or excessive noise or heat. Evaluations may also entail an analysis of engineering control strategies, including installation of ventilation systems, process modifications, or product substitution.

Nova's projects often address regulatory and liability concerns of employers or homeowners and respond to employee/resident questions or complaints. Typical IAQ investigations require a site walk-through to identify indoor conditions that may lead to symptoms of allergies, illness, and/or general discomfort. Sampling and testing are performed via culturing and non-culturing analytical techniques to measure bioaerosols (aeroallergens and/or bacteria) present in the air and building materials. The IAQ investigation also includes the inspection of and sampling of HVAC system(s) and associated ducting. Expert witness testimony and advisory services are provided to clients involved in health-related claims.

## Experience

Nova's trained professionals include Certified Industrial Hygienists and Certified Safety Professionals with many years of experience in evaluating, identifying, and controlling indoor environmental concerns. Trained staff has provided numerous IAQ services evaluating the air quality and building conditions of multiple-story office and apartment buildings and single-level office structures. Nova helps its clients identify control methods and remediation procedures, providing solutions to resolve air quality concerns.



### RICK LEINES, REM, CESCO

#### Vice President - Industrial Hygiene (IH) & Hazardous Materials Group

Mr. Leines is Vice President of the IH & Hazardous Materials Group, working out of Lenexa, Kansas. He has spent his 25+ years of experience in the environmental, health, and safety (EHS) industry serving clients by managing a wide variety of EHS projects at industrial, commercial, state, and federal facilities throughout the United States. He is responsible for business development, contract and project management, industrial hygiene and safety-related services, project oversight, training of clients and staff, regulatory review, and reporting.

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25 Story Office Building  
Des Moines, IA

## CASE STUDY

### Summary

The client contracted Nova to provide comprehensive building inspections on a floor-by-floor basis to determine if building deficiencies and environmental issues were present, causing significant health effects to employees.

### Solution

Vertical exterior sealants were replaced to address extensive water infiltration on curtain walls, which had led to significant mold and bacteria growth within the building. Issues with the building's HVAC system were identified, leading to a floor-by-floor replacement and upgrade of the entire ventilation system (units, ducts, and controls). Exhaust issues were identified that were associated with the underground parking facilities. Exhaust and fresh air equipment and operating procedures were evaluated and adjusted, ensuring that automobile exhaust did not affect the building occupants.

