

Give yourself some breathing room.



# VERDACITY

## Indoor Air Quality Testing

As a Subcontracted Specialty Consultant, Verdacity provides construction and design teams the edge to compete on a highly demanding stage. We specialize in pre-occupancy IAQ testing, flushout, and documentation for **risk mitigation, risk management, green rating system compliance, and integrated project delivery.**

With experience in all project delivery methods and major green rating systems, we connect directly with you to contribute to your professional success.

### CORE SERVICES

- Testing strategy and procedure development
- On-site meter reading
- Laboratory testing
- Reporting and documentation submittals
- Certification administration & coordination



**TO LEARN MORE, CONTACT:**

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# What's in the air we breathe?

## A Guide to Common Indoor Air Pollutants & Their Health Effects

POLLUTANT NAME & MAXIMUM ALLOWABLE CONCENTRATION	MAJOR SOURCES/CAUSES	POTENTIAL HEALTH EFFECTS
<b>Particulate Matter (PM2.5 TSP)</b> <i>Less than 12 µg/m³</i>	Cigarettes, wood/coal stoves, fireplaces, aerosol sprays, dust	Eye/nose/throat irritation, increased susceptibility to respiratory infections and bronchitis, lung cancer
<b>Carbon Dioxide (CO<sub>2</sub>)</b> <i>Less than 1,000 ppm</i>	Sick building syndrome (SBS), excessive building occupancy, inadequate ventilation	Fatigue, eye/nose/throat irritation, headaches, chest discomfort, respiratory tract symptoms
<b>Total Volatile Organic Compounds (TVOC)</b> <i>Less than 500 µg/m³</i>	Aerosol sprays, solvents, glues, cleaning agents, pesticides, paints, moth repellents, air fresheners, dry cleaned clothing, water	Eye, nose and throat irritation, headaches, loss of coordination, liver/kidney/brain damage, cancer
<b>Relative Humidity (RH)</b> <i>30-60%</i>	Condensation, oversized HVAC unit, poor building envelope/roof, water leakage, poor moisture control	Respiratory infections, allergies, bacteria/virus transmission, mite/fungal growth
<b>Carbon Monoxide (CO)</b> <i>Less than 9 ppm</i>	Non-vented or malfunctioning gas appliances, wood/coal stoves, tobacco smoke, vehicle exhaust emissions	Headache, nausea, angina, impaired vision/mental functioning, fatal at high concentrations
<b>Ozone (O<sub>3</sub>)</b> <i>Less than 0.07 ppm</i>	Malfunctioning air treatment systems, office photocopiers/printers	Eye/nose/throat irritation, coughing, chest discomfort, reduced lung function, shortness of breath
<b>Formaldehyde (CH<sub>2</sub>O)</b> <i>Less than 27 ppb</i>	Building materials, tobacco smoke, household products, unventilated fuel-burning appliances (gas stoves, kerosene space heaters)	Watery eyes, eye/nose/throat irritation (burning); coughing, wheezing, nausea, skin irritation

Verdacity's team has incredible knowledge in all aspects of [sustainability], from project inception all the way through construction. They continually prove to be an integral part of any project's success that they are involved in. We have the utmost respect for all of the Verdacity team members and value every project we have the fortune of working on together.

Zach Thompson  
Thompson Construction, Inc.

### Sectors Served

- Federal Government
- National Laboratories
- State and Municipal Government
- Higher Education Institutions
- K-12 Schools
- Civic and Commercial Buildings
- Data Centers
- Warehouse and Distribution Centers

