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Indoor Air Quality Consulting Services

DF Technical & Consulting Services Ltd. provides a client based comprehensive approach to Indoor Air Quality matters. Indoor Air Quality (IAQ) is a very broad topic and in-experience can result in a flawed survey resulting in wasted time and resources. DF Technical employs trained individuals with an understanding of the Indoor Environment, thus maximizing the inspection process targeting areas of concern and answering the questions for all interested parties.

Air Quality may include some or all of the following parameters;

Mould and Bacteria

Volatile Organic Compounds

Dust Particle counting

Air Movement profiles

Carbon Monoxide

Carbon Dioxide

Temperature /Humidity

Nitrogen Dioxide

Contaminant migration from adjoining sources

Ozone

The Process;

Perform a site walk through inspection to evaluate conditions within the facility or building to determine the sampling strategy necessary to answer the IAQ questions and determine sources of contaminants

Develop the sampling and investigation program, selecting analysis locations to answer the IAQ questions and determine sources of contaminants

Review procedures within the facility that may contribute to IAQ issues and related matters, including maintenance procedures, cleaning products, occupant activities and activities in adjacent spaces, space layout and configuration contributing factors

Evaluate all collected data and compare to results to client comments of issues as well as site observations during inspection period

Prepare a report of findings outlining contaminants and issues noted during inspection. Assist in developing corrective measures to reduce or eliminate IAQ concerns

Review findings with client to ensure understanding of findings

Asbestos Containing Materials (ACM)



Asbestos is a naturally occurring fiber used in numerous applications within buildings for fire rating of materials, insulation properties and product durability. However, health concerns related to fiber exposure have deemed ACM as a risk factor within buildings containing this material. DF Technical & Consulting Services Ltd. will provide inspection and consulting services necessary to answer the questions about Asbestos within your facility or building.

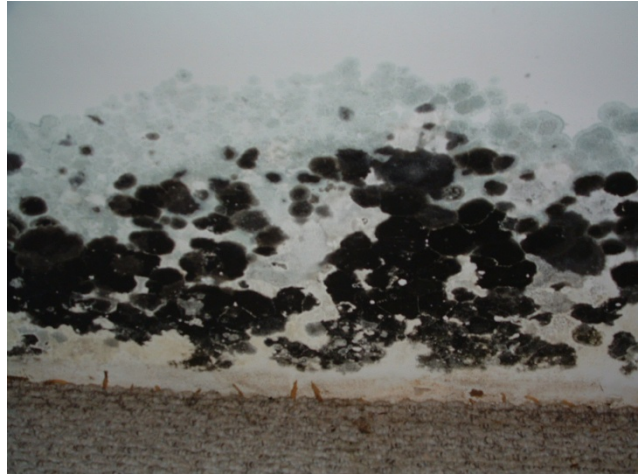
Asbestos Survey's – in order to manage the risk first you must understand if you first have Asbestos and where this material exists in your building. Bulk material assessment of building materials for potential Asbestos Content

Management Planning - if you have Asbestos in the building, the overall condition of the material must be understood and management planning aids in outlining procedures all individuals must adhere to when performing tasks in and around ACM building materials

Abatement Procedures (removal of ACM within the building) – DF Technical will work with the clients to develop appropriate abatement procedures to reduce risk to occupants, contractors and the building assets during removal activities including visual and air monitoring in areas of concern and surrounding areas

Develop and Implement Asbestos Awareness Programs in generic or site specific manners

Moisture Monitoring and Mould Assessments



Mould issues within buildings are a result of Moisture issues affecting the structure, either through leakage, condensation or occupant activities. Mould Remediation is the process by which contaminated materials are removed from the building while minimizing cross contamination of other areas of the building. As mould is a symptom of moisture issues, to ensure the long term effectiveness of all Remediation projects an understanding of the moisture source(s) must be included as part of the mould assessment and reduction of redundancies in procedures.

DF Technical & Consulting Services Ltd. will evaluate the building for moisture sources including building envelop failures, leakage issues or occupant based moisture sources that may be the source or contributing to mould development within the building.

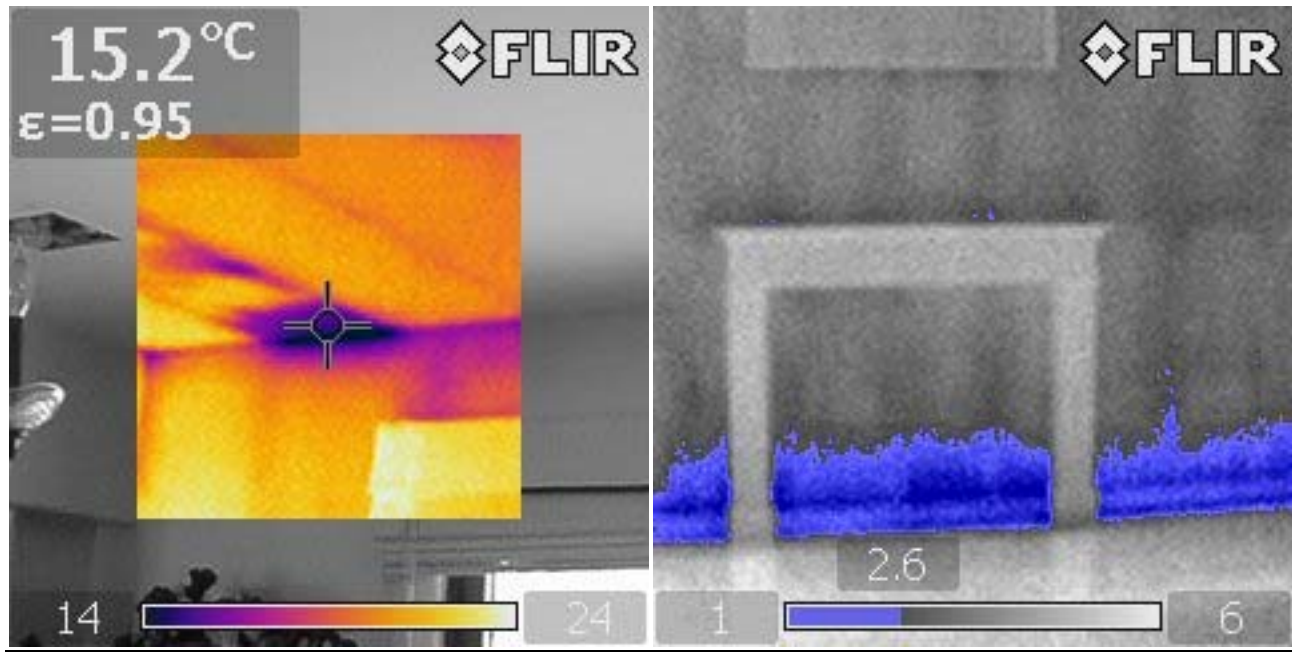
Mould Assessments include;

Visual inspections for sources of mould

Analytical sampling for source and health impact potential from spore exposure

Moisture assessments may include moisture meters, thermal scanning, hygrometer or relative humidity monitoring

Infrared Thermal Imaging



Moisture penetrations into building materials are major precipitators to mould growth and in most cases cannot be seen immediately by the naked eye. The use of state of the art Infrared Thermal Imaging Technology for the use on building envelope issues and suspected interior water loss problems are now remedied by the use of such equipment. Our Industry certified Infrared Thermographers can assist in the location of suspected water loss sources, water intrusions, heat loss and overall building envelope integrity.

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Infrared Thermography Inspections include;

Thermal Heat Signatures for indications of infrared temperature differences in building materials that may relate to moisture intrusion or heat loss/gain

Non-Destructive testing of building materials for identification of potential moisture intrusions, confirmed with moisture scanning/probing equipment for verification.

Reportable findings in a concise written inspection report.

Industrial Hygiene or Occupational Monitoring



The science behind Industrial or Occupational Monitoring involves the understanding of the contaminants that have the potential to harm the human body and that are generated in the workplace as part of an overall process. These processes may include;

Process related - Welding , gouging, grinding/cutting, painting, sand or abrasive blasting, electroplating, noise exposure, compressed breathing air, confined space monitoring

Function related – exposure to exhaust gases introduced into the workplace from exhaust systems, fork lift activity and other vehicle activity

DF Technical employ individuals with an understanding of the special and specific issues that exist in the workplace and devise a monitoring program to best assess your facility needs to meet Regulatory Requirements, Health and Safety considerations and any form of internal considerations within our clients operation.

Not only are our consultants able to answer the direct questions pertaining to exposure but also indirect considerations or secondary sources created during the processes. By understanding the process and spin-off effects, sampling strategies can be developed more cost effectively and directed to answer the necessary questions.

DF Technical will also evaluate the facility, the collected data and all pertinent information to aid in solutions to problems where they may exist.

Building Envelop Sciences



Originally, building envelop studies were thought to pertain to energy management and the overall reduction of energy cost. In simple form the building envelop involves the exterior of the building including the overall structural materials as well as the cosmetic details and finishes.

Building Envelop studies have evolved of the past numbers of years around the concerns of water leakage into buildings causing significant damage to the overall structure and extensive repair costs .

Moisture Monitoring, Thermal Image Scanning, Pressure decay testing along with physical inspection of a building are some inspection methods utilized in Building Envelop Studies. These inspections can aid building owners, property managers, risk management individuals along with other interested parties in understating potential factors that may negatively impact the integrity of the building envelop