



Geotechnical Testing

AGAT Laboratories is a leading provider of material, aggregate, soil and rock testing. Using state-of-the-art equipment, AGAT provides routine and customized solutions for all geotechnical and materials testing applications. Mining, tailings, construction and aggregate are just a few of the areas routinely serviced by AGAT and our team of experts. AGAT is committed to providing the highest quality products for our clients. All testing is subject to rigorous quality control measures and multiple levels of data review. We know the importance of quick turnaround with results you can trust. Our goal is to work collaboratively with our clients to ensure they are getting the product they need, when they need it.

Soils

- Index testing and Physical Properties (sieve, Hydrometer, Atterbergs, Compaction and Density Proctors)
- Corrosion (Soluble Sulphates, Chlorides, Resistivity, pH)
- Environmental Soil Analysis (Advanced testing for contamination, or leachability)
- Hydraulic Properties (Permeability, Conductivity) Physical and Mechanical Properties
- Thermal and Electrical Properties (thermal resistivity and electrical conductivity)
- Advanced Soil Mechanics (UCS, Triaxial, Direct Shear, Direct Simple Shear)

Aggregate & Rock

- Gradation Analysis (Particle size)
- Abrasion Testing (Los Angeles Abrasion, Micro Deval)
- Slake Durability, Flakiness and Elongation Index
- Soundness (Sodium Sulfate/Magnesium Sulfate Test)
- Strength and Hardness (UCS, Triaxial, Direct Shear)
- Advanced Rock Mechanics (Modulus and Acoustic Waves)
- CT Scanning (Shelby Tubes, Core)

Concrete & Grout

- Slump Testing
- Durability Assessments
- Permeability Testing
- Porosity Analysis
- Rapid Chloride Permeability
- Hydraulic Conductivity
- Air Voids & Petrographic Analysis

AGAT Divisions

Additional key divisions that can compliment your project needs:

- Mining and Geochemistry
- Acid Rock Drainage (ARD/ML Testing)
- Environmental Testing
- Geology & Petrography
- Core CT Scanning
- Specialized Tailings Testing

Key Industries We Support

- Civil Infrastructure
- Environmental Engineering
- Energy
- Hydro Dams
- Road building
- Mining and Resources
- Tailings Ponds
- Tunneling
- Renewables

Accreditation

AGAT Laboratories is accredited for specific tests as listed in the laboratory's current scope of accreditation by the following organizations:

- Canadian Council of Independent Laboratories CCIL
- APEGA Certificate (Alberta)
- The Standards Council of Canada (SCC)
- The Canadian Association for Laboratory Accreditation (CALA)
- SAI Global
- ISO/IEC 17025:2017
- ISO 9001:2015

Technical Seminars

We are proud to offer customized training seminars designed to provide your team with technical information on laboratory processes and quality control. These seminars can be delivered in our state-of-the-art training facilities or directly at your office and on your schedule. to set one up, please contact your business development representative.

Why AGAT is a Trusted Partner



Leading Turnaround Times



Team of Technical Experts



Critical Lab Capacity



Coast to Coast Coverage



Multi-Divisional Support

Please note that this is not an exhaustive list of all sampling guidelines, but focuses on key areas of consideration. For more information please contact your designated AGAT representative or info@agatlabs.com