Test Work Services and Capabilities

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RIGHT SOLUTIONS RIGHT PARTNER
Metallurgical Laboratory

One, Two and Three Product Flotation Flowsheets (Rougher, Cleaner and Cycle) and Reagent Schemes
Coarse Particle Flotation
Mild Steel, Inert and Stirred Mill Grinding Applications
Gravity Concentrations
Leaching Applications (including Cyanide and Acid)
Settling and Filtration Tests, Viscosity Measurements
Magnetic Separation, Davis Tube

Mineralogy Laboratory

Mineral Identification
Mineral Fragmentation and Liberation
Modal Analysis
ADIS—Automated Digital Imaging Search
QEMSCAN
X-Ray Diffraction (XRD)
Process Mineralogy/Plant Survey Analysis
Characterization of Concentrates
Trace Mineral Search

Analytical Laboratory

Atomic Absorption and ICP Analysis
Leco Sulphur/Carbon Analyzer
Fire Assay
Multi-acid Digestions and Fusions
Classic Titration and Gravimetric Analysis
Assay Methods Calibrated to Certified Reference Materials
**Sample Preparation/Sizing**

- Attritioning
- Blending
- Bulk Density
- Compositing
- Crushing
- Cyclosizing
- Desliming
- Grinding
- Laser Sizing
- Moisture Content Determination
- Particle Size Distribution Analysis
- Pulp Density Determination
- Screening—Wet/Dry
- Specific Gravity, Bulk Density
- Size-By-Size Analysis
- Splitting

**Comminution**

- Bond Abrasion Index
- Bond Ball Mill Work Index
- Bond Rod Mill Work Index
- Bond Impact Crushing Work Index
- Bond Low Energy Impact Test
- JK Drop Weight and SMC
- Levin Open Circuit Grindability
- Point Load
- Core Cutting Capability

**Pilot Plant**

- Feed Rates Ranging Between 60 to 200 kg/hr
- Representative Concentrate and Tailings Production
- Wide Variety of Flowsheet Arrangements
- Magnetic Separation Low and Medium Intensity
- Dense Media Separation
- IsaMill Signature Plot
ALS Metallurgy Kamloops is a fully integrated mineral processing laboratory. Our facility is located in Kamloops, BC with 20,000 square feet of laboratory and office space with about 55 technical staff. Our operation is ISO 9001:2008 certified. ALS Metallurgy has established a reputation as a leader in process development, circuit optimization and mineralogical analysis.

ALS Metallurgy is a multi-faceted global business and can provide a range of further testing services at its various branches.

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