



## IML KINETIC TESTING SERVICES

Inter-Mountain Labs, Inc. (IML) has been performing many forms of kinetic testing since it started operations in 1979. IML began performing ASTM Method D5744-07: Standard Test method for Laboratory Weathering of Solid Materials Using a Humidity Cell, in 2008. IML routinely performs the following kinetic testing procedures: humidity cells, column tests, bottle leach tests, Nevada's Meteoric Water Mobility procedure and biological procedures. IML has the unique advantage of having engineers on staff to support the development and operation of testing apparatuses and a full service analytical laboratory to provide results.

### Unique Staffing Advantages

- Over 30 years in business providing analytical services
- Experienced engineers employed in a laboratory setting
- Decades of experience controlling environmental conditions
- Staff of degreed scientists: 10 chemists, 3 meteorologists, 2 electrical engineers, 2 civil engineers, 2 geologists, 2 microbiologist, 2 biologist, 2 range scientist, chemical engineer, and soil scientist

### Infrastructure Advantages

- ⇒ Nevada Certified Lab, audited by Don LaFara from NDEP in the 2nd Quarter of 2010
- ⇒ New state of the art facility in Sheridan, WY (built in 2004)
- ⇒ Dedicated humidity cell chambers capable of performing 65 tests concurrently
- ⇒ IML has full service ore, rock, core and soils processing and splitting facility
- ⇒ IML provides Nevada certified "in-house" analysis of extracts, reducing holding and turn-around times
- ⇒ IML has duplicate or multiple instruments for each technique such as: ICP-MS, ICP-OES, IC, RFA, Auto-titrators, pH/EC/Eh meters, Hg Analyzers, sample prep blocks, GC-MS, GC-PID, and GC-FID

### Example Projects

- Humidity cell tests for African and Peruvian gold mines to assess environmental weathering impacts
- Powder River Basin coal overburden, spoil, and backfill column tests for groundwater impact studies
- Wyoming soil column tests for land application of coal bed methane produced water impact studies
- Uranium column tests as heap leach pilots for uranium extraction and trace metals impact studies
- Coal bottom ash and fly ash sequential batch leach studies for ground water impacts
- Biological Acid Production Potentials, kinetic test for the State of Nevada for acid generating material
- Nevada Meteoric Water Mobility Test, kinetic test for rain water impacts to ground and surface waters

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