Powerful drill core visualization and interpretation tools, brought to your local lab

ALS Geochemistry hosts TerraCore International’s Core Imaging Spectrometers™ (CIS) in several major exploration regions. These instruments generate detailed hyperspectral mineral maps and high resolution true color images of drill core. The mineral map identifies a wide variety of fine grained and intermixed alteration minerals, while mineral abundances and other statistics are compiled from the scan data. Visualization tools starting with ALS CoreViewer™ allow cross-platform compatible viewing of detailed mineralogy and unprecedented investigation of your core.

ALS Geochemistry and TerraCore International provide cutting-edge hyperspectral core scanning technology to empower your exploration targeting ability and boost the quality of your resource modeling.
Mineral mapping on core at the millimeter scale

The Core Imaging Spectrometer™ is a continuous hyperspectral core scanner that generates mineral maps at 1mm spatial resolution. Each pixel contains the full spectral signature from the visible and short wave infrared spectrum (400-2500nm) with a 5nm spectral resolution. This enables the identification of fine grained alteration minerals that are often not distinguishable by eye, as well as changes in composition within a single mineral type. This can be important in the clay minerals, where composition adds more information to mineral assemblages than presence or absence alone.

High throughput, fast and accurate spectral interpretation

The CIS™ is capable of scanning up to 1500 meters of core per day, keeping pace with your drilling program. Interpretation of spectra is semi-automated when project geology is identified, allowing fast turnaround on results relevant to your exploration project. Completed mineral maps and abundance data are uploaded to ALS CoreViewer™, allowing online examination of core photography and hyperspectral mineralogy from camp, head office, or anywhere your geologists might be located via secure web based distribution.

All data that can be displayed in CoreViewer™ is archived in perpetuity, guaranteeing you year-round digital access to core that may be stored on site. Access to the archives is free to ALS clients.
A variety of cross-platform compatible deliverables to fit your needs

Fit-for-purpose mineral maps may be exported for analysis in your core scanning software of choice, such as IntelliCore™ by GeoSpectral International. For example, you may only want to see a subset of minerals, or you may want to show a particular mineral parameter via a color scale.

Mineral statistics suitable for archiving in any data management system are always provided along with the complete mineral map and true color core photos.

Access the power of hyperspectral imaging in active exploration and mining regions

The ALS CoreViewer™ interface is online, convenient and secure. CoreViewer™ can display core photos, mineral maps, geochemical results, geophysics and more, all side by side, so you can visually integrate and interpret the wide array of downhole information available. All data can be downloaded in database-ready file formats, saving time and effort in cleaning your data before it can be used. Leading 3D modeling software packages can link with CoreViewer™ to bring up individual drill holes from inside your model and all their associated data, helping you ground-truth your model and improve confidence in your estimates.
Maximize efficiency in your resource modeling workflow

The location of Core Imaging Spectrometers™ in ALS Geochemistry labs around the world gives you access to a full suite of core services and geochemical analysis, including core cutting, secure logging facilities, core archive management, and analytical services covering the full project life cycle - all in one location.

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ALS offers complete testing services at all stages of your project’s life cycle through ALS Geochemistry, Metallurgy, Mine Site Services, and Environmental. Please visit www.alsglobal.com for more information on all of our service lines and a complete list of our global locations.

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