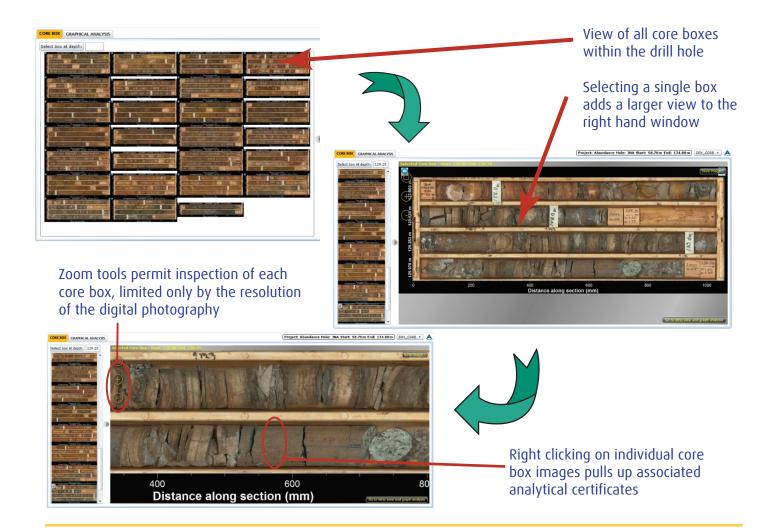




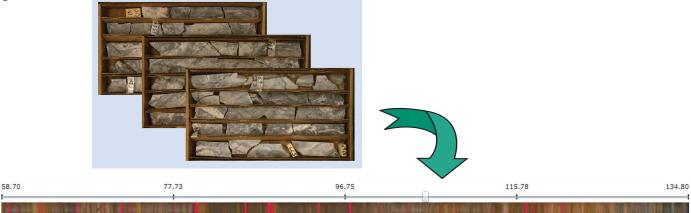
### CoreViewer™ provides online access to core photographs, geochemistry and depth-related data from anywhere, anytime.

ALS Minerals CoreViewer<sup>™</sup> pairs quantitative analytical data with real-depth visualization of a continuous core strip, constructed from high resolution digital photographs of core boxes. All core photography and associated data is securely managed and archived in perpetuity, accessible through ALS Webtrieve<sup>™</sup>. Geochemical data depth-linked to the core strip is accessed via a client-controlled security key, blind to ALS personnel. To start using this service, all you need is high resolution JPG photographs of core boxes, which may be taken at select ALS laboratories or submitted by you. CoreViewer<sup>™</sup> correlates captured images with current, historic or future ALS analytical data.



# **CoreViewer<sup>™</sup> - Simple, Convenient, Effective**

The first step in accessing the power of CoreViewer<sup>™</sup> conversion of high-resolution digital images of individual core boxes into a single digital core strip. Depth intervals of missing or non-recovered core are preserved in the final "strip" view (shown here as red bars). The process of conversion from core box to strip ensures that every pixel of the core photo is accurately depth registered.



#### Core photography and associated assay data accessed from Webtrieve<sup>™</sup>

| ALS         | Workorders Reports Search QC Wizard CoreViewer Preferences News Terms Contacts Help Log Out   Home > CoreViewer Projects CoreViewer Projects Key: ALS Key: ALS Key: ALS Reset Submit |             |       |      |       |                  |                   |                | The CoreViewer <sup>TM</sup> page within<br>Webtrieve <sup>TM</sup> contains all projects<br>associated with core photography |
|-------------|--|-------------|-------|------|-------|------------------|-------------------|----------------|---|
| Client Code | Project  | Drill Hole  | Units | From | То    | Number of Photos | Associated A      | nalytical Data |   |
| QUA         | ALS Minerals Test  | Demo Hole   | ft    | 0    | 603   | 74               | <u>VA11021140</u> | LINK           |   |
| QUA         | ALS Minerals Test  | <u>M001</u> | ft    | 0    | 603   | 74               | <u>VA12017931</u> | LINK           | Data and photographs are  |
| QUA         | ALS Minerals Test  | <u>M002</u> | ft    | 0    | 603   | 74               | VA12017932        | LINK           | linked by a client-controlled   |
| QUA         | ALS Minerals Test  | <u>M003</u> | ft    | 0    | 603   | 74               |                   | LINK           | ,<br>key  |
| QUA         | ALS Minerals Test  | <u>M004</u> | ft    | 0    | 603   | 74               |                   | LINK           | Assay workorders are associ-  |
| QUA         | Abundance  | JNA         | m     | 58.7 | 134.8 | 54               | VA13074632        | LINK           | ated with drill core photo-<br>graphs   |

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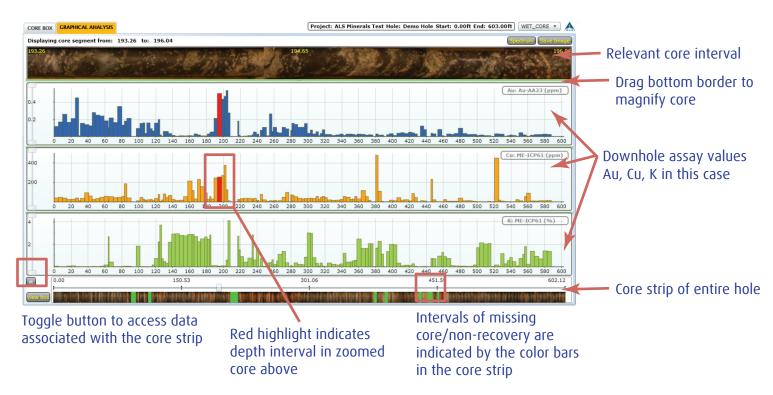
Once core photos are uploaded, two main windows appear within CoreViewer<sup>™</sup>. In the first view, all core box photographs can be viewed and assessed individually or as a group. For each core box, the associated analytical certificates are available at a click of the mouse button. Images can be zoomed for finer detail and exported for inclusion in reports, websites and presentations.

The digitizing process takes care of drilling blocks, broken and misaligned core, and sections of missing core to produce a continuous core strip



## **CoreViewer<sup>TM</sup> - Secure Photo/Data Management and Archiving**

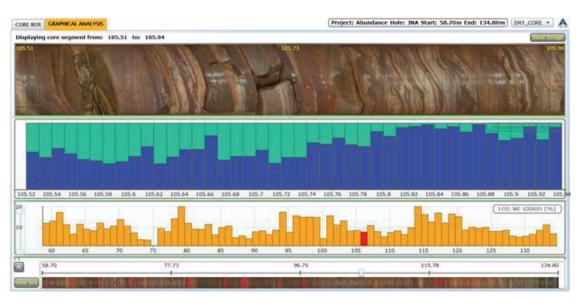
The second window is where all of the analytical data is visualized along with core photography. Core can be magnified at any point, by enlarging the upper core view. Navigation to any part of the hole is rapid and seamless by either clicking on the core strip, moving the slider, or dragging the zoomed core window left and right. Up to three parameters can be visualized in addition to the core photograph, and can be replaced on the fly from the selection list, toggled from the bottom left of the view.



The strip view and graphical analysis windows permit easy to use integration of the core photograph with other relevant data such as geochemistry, hyperspectral data, and borehole geophysics.

The link betweem geochemical data and core photographs is password protected, and access is managed by the client. Data and photos are encrypted but can be viewed at any time, in any part of the world, through secured web access.

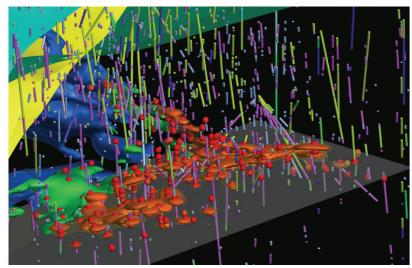
The image to the right shows an example of drill core from an Iron Ore deposit. In addition to assay geochemical data, hyperspectral data of Fe minerals (hematite and goethite) are also shown. Here the geochemical data spans the entire core, whereas the hyperspectral mineralogy is zoomed to the same scale as the upper core view.

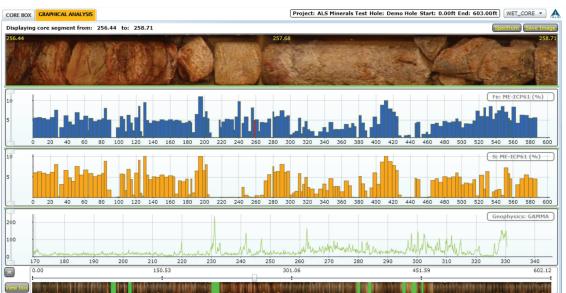


### CoreViewer<sup>™</sup> - Access and Collaborate at Anytime, Anywhere

In addition to visualization of data stored on ALS servers, CoreViewer<sup>™</sup> offers collaboration with a number of 3D mine modeling software packages, permitting rapid connection of deposit models with core photographs, geochemical assay data, geophysics data spectral mineralogy.

CoreViewer<sup>TM</sup> is offered to ALS clients in conjunction with WebTrieve<sup>TM</sup>. Clients pay only for the cost of uploading the core box photographs and constructing the core strip. There are no further or on-going costs for this service.







Selecting a hole in 3D modeling software opens up a CoreViewer<sup>TM</sup> window, allowing access to core photos and all associated data.

#### ALS GEOCHEMISTRY CLIENT SERVICES

Canada - Vancouver +1 604 984 0221 USA - Reno +1 775 356 5395 Mexico - Hermosillo +52 662 260 7586 Peru - Lima +51 1 574 5700 Chile - Santiago +56 2 2654 6100 Brazil - Belo Horizonte +55 31 3045 8400 Europe - Loughrea +353 91 841 741 Africa - Johannesburg +27 11 608 0555 Australia/Asia - Brisbane +61 7 3243 7222

ClientServicesWCAN@alsglobal.com ClientServicesUSA@alsglobal.com ClientServicesMEX@alsglobal.com ALSLI.ServClientesMin@alsglobal.com Santiago.MineralServices@alsglobal.com ALSBH.ClientServMin@alsglobal.com ALSM.Loughrea@alsglobal.com ClientServicesAfrica@alsglobal.com Geochemistry.Australasia@alsglobal.com



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