

# Elsiar (Cu, Mo)

The **Elsiar Cu-Mo Porphyry Property** is located about 35 kilometers northwest of Terrace British Columbia, is comprised of 5330 hectares of contiguous claim units. Eagle Plains Resources Ltd. currently holds a 100% option (less 2% NSR) on the property.

## 2005 Drilling on the Elsiar Project



The property boasts excellent infrastructure including a dense network of logging roads and a hydroelectric line running through it. EPL has also established an excellent relationship with the city of Terrace, First Nations People of the KitsumKalum Band, and secured core storage and logging facilities within the town.

### Geology

In two field seasons, EPL has taken the Elsiar property from a single Mo stockwork showing, to an exciting Cu-Mo-Au porphyry target ready for an

aggressive drill program: the 2004 program saw an airborne geophysical survey, extensive geochemical surveys, and minor drilling, while the 2005 field work involved follow-up and reconnaissance geochemical sampling, detailed geologic mapping and a 2,500 m diamond drill program.

The property is centered upon an intrusive complex of at least four 100 m diameter, Cretaceous-age quartz biotite porphyry stocks and plugs of the Coast Crystalline Complex, that have intruded Jurassic to Cretaceous-age sedimentary rocks of the Bowser Lake Group. Composition of the intrusives varies from quartz monzonite to tonalite to minor microdiorite. The property displays classic geologic features of a BC Cu-Mo porphyry system including: multiple small-scale, intermediate intrusive plugs; a hornfels (silica + biotite ± phyllosilicates) halo, phyllic and potassic alteration assemblages associated with dense mineralized qtz stockworks; geochemical zonation with respect to Cu, Mo and Au, and elevated W + Bi + Si geochemical signatures in silts and soils.

Three types of mineralization are documented on the property: **Type I** - primary / syngenetic, possible exhalative, sulphide (Py + Po ± Cpy) mineralization; **Type IIa** - Cu-Mo qtz stockwork mineralization within intrusive plugs and host sedimentary rocks and; **Type IIb** - Quartz breccia Au-Mo mineralization along intrusive contacts. Au mineralization, discovered in 2005, is considered a major discovery pertaining to the economic potential of the property.

### 2004 and 2005 Work Programs

The property also boasts an 800m x 800m Cu-Mo soil anomaly, delineated in 2004 and 2005 by EPL, that is coincident with an airborne magnetic anomaly discovered in 2004. Soil sampling surveys have been very successful in targeting mineralized stockwork and numerous geochemical (Cu, Au) targets discovered in 2005 remain to be tested by detailed groundwork and follow up drill programs.

The 2004 and 2005 diamond drill programs consisted of 23 holes from 7 pads, totaling 3040m / 9971 ft; the majority of which (19 of 23) intersected sub-economic or anomalous values of Cu, Mo or Au. The 2005 drill program was successful in identifying gold as a significant component of the porphyry system; something that EPL has suspected since acquisition (based on regional geology, geophysics and geochemistry).

The property first saw drilling in 2004 when EPL tested the Elsiar Cu-Mo Qtz stockwork with 3 holes from one pad, totaling 483.8m / 1586.9 ft. Ore-grade copper intercepts were encountered in all holes over narrow widths, with mineralization noted throughout the entire length of the drill-holes. Due to poor ground conditions all holes were terminated in mineralized material. The 2005 program involved 20 holes from 6 pads totaling 2556.2m / 8384.3 ft of drilling; program was designed to test geologic and geochemical targets defined in 2004 and early 2005; follow-up drilling to the 2004 program was also performed.

The majority of holes collared, , over a 3.5 km<sup>2</sup> area, intersected mineralized stockwork, and alteration assemblages / geology consistent with porphyry style mineralization. High-grade gold mineralization was also intersected (**1m @ 14 g/T Au; LC05018**) at the Giv'R showing.

The results from the 2005 program continue to support the potential for the Elsiar Property to host porphyry style Cu – Mo +/- Au deposits and high-grade Au - Ag mineralization. This report includes recommendations for future work on the project, which include continued grass roots exploration within previously unexplored areas of the property and more detailed work in areas of interest identified by historical programs. A detailed budget for this work is included in this report.

The total expenditures on the property by Eagle Plains Resources in 2005 were \$631,199.00

## **2008 Work Program**

Work conducted by Eagle Plains Resources Ltd. on the LCR property was carried out in two phases. The first phase of exploration was a geochemical survey (soiling and silting), the second phase consisted of geological mapping, and additional geochemical soiling and silting. The project was based out of Terrace, BC. Access to the property was provided by Lakelse Air's Bell 206 based out of Terrace, BC, approximately 45 km southeast of the property. Some lower elevations of the property were able to be accessed with a 4x4 truck along logging roads. Work consisted of detailed geological mapping, following up geochemical anomalies, silting, and contour soiling.

Contour soil lines were designed to follow up silt geochem anomalies from previous exploration programs, as well as the first phase of 2008. Geological mapping and rock sampling was focused on the area surrounding anomalous soil sample LC53 08+25W, which contained extremely elevated concentrations of Au (>25 g/t), Cu (>2000 ppm), Mo ( >2000 ppm). A metre scale soiling grid was designed to determine the extent of mineralization associated with sample LC53 08+25W. New rock exposures created by the expansion of the logging road were also mapped.

A total of 1827 soil samples, 111 silt samples, and 9 rock samples were taken during the 2008 field program. Samples were shipped to Eco Tech Laboratories in Kamloops, BC for analysis. Soil and silt samples were analyzed for 28 element ICP, plus an Au aqua regia ICPMS finish. Rock samples were analyzed for 28 element ICP, plus a fire assay for Au; ore grade analysis (AAS) was used on samples which were above ICP detection limit in either Mo, Cu, Ag, Pb, or Zn. All samples were collected, handled, catalogued and prepared for shipment by Eagle Plains Resources staff. The geochemical data was then entered into the Eagle Plains exploration GIS database for preliminary analysis.

All exploration and reclamation work was carried out in accordance to the BC Mines Act and BC Workers Compensation board requirements.

Total 2008 exploration expenditures by Eagle Plains Resources on the LCR property are yet to be reported.

### **2008 Exploration Results –Geological Mapping**

Geological mapping of the LCR property around anomalous soil sample LC53 08+25W indicates that the anomaly is related to a metre scale clay rich horizon within a discrete shear zone. Other small sinistral faults were noted in the area, suggesting that this region may have been affected by a large scale shear zone. Porphyritic sills/dykes, 1-3 m in thickness are common in the area, and appear to predate any shearing. Similar porphyritic sills/dykes were observed during geological mapping along logging roads at lower elevations in the southern portion of the property. Fe-staining and pyrite mineralization is common along the contact between porphyry units and quartz wacke.

### **Option Agreements**

The Elsiar project has been subject to two option agreements. Northern Continental Resources held an option between January 2004 and January 2006. Pursuant to the agreement, the 2005 work program was funded by Northern Continental and carried out through Eagle Plains Resources Ltd. wholly owned subsidiary, Bootleg Exploration Inc. During this time the project was developed from a relatively unexplored property into an advanced Cu-Mo-Au porphyry target.

In January 2008, Sandstorm Resources Ltd. and Eagle Plains Resources Ltd. announced an option agreement on the Elsiar Property. The 2008 work was funded as per this option agreement and in June 2009, Sandstorm elected to terminate the option due to a change in their business model.

All of the claims are in good standing until at least November 15, 2012. The Elsiar Project is available for option and represents a project of merit.

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