

To: Participants, Sullivan-Aldridge Metallogenic Project
From: Project Co-ordinators (John Lydon, Bob Turner, Trygve Hoy)
Date: November 2, 1990

Re: **STATUS OF SULLIVAN-ALDRIDGE METALLOGENIC PROJECT**

Summary:

Lydon, Turner and Leitch had a 3 day visit with Cominco staff of Sullivan mine and Cranbrook exploration office. A fourth day was spent on a field tour with Hoy. The purpose of visit was to evaluate the availability of data for the project. The meeting was suggested by Cominco at our meeting (Duke, Hoy, Lydon, Turner, Leitch, Hoy) with Cominco staff in September.

Data will be made available by the mine, on a controlled access basis (limited number of on site researchers). Cominco regional drill core and drill logs (with some modifications) will be available. Co-ordination of field studies by various researchers is needed to minimize demands on Cominco staff.

An executive memo summarizing the project with a schedule for 1991 field studies, and modifications to proposed research, has been requested by Cominco staff. We need information on your intended research and schedule to complete this.

Sullivan Mine data:

General:

John Lydon, Craig Leitch and Bob Turner had a two day tour of mine office data, drill core and underground.

To minimize the demands on Cominco staff, Cominco has requested that the number of onsite researchers at the mine be limited. For 1991, this probably means 3 persons. Other researchers should act through these "onsite" researchers to obtain data/samples.

(1) Underground access:

Only a small portion of the Sullivan deposit is currently accessible by underground workings. Timing is important because access is tied to development schedules. A Cominco staff member must accompany any researcher underground.

Currently accessible areas are:

- (a) active areas of mining which are Southeastern fringe, parts of western ore body and parts of bedded ores;
- (b) active haulage ramps and development drifts in the footwall of the orebody. A map of accessible ramps and development drifts is available from John Lydon in Ottawa.

(2) Mine drill core:

In general, available core can support core logging studies in most parts of the mine though Cominco will allow only limited and supervised sampling of core. About 30% of the total underground drilling at Sullivan has been retained and is stored outdoors. Core boxes are stacked four feet high on palettes. An adjacent core logging shed maybe available for work.

Condition of core is variable, but generally appears to be good. Core is 40% E size (0.75" diam.), 60% AX size (1.25" diam.) Drill holes at 200 foot centers throughout the deposit (in some cases density is greater) are available for logging, but sampling of materials must be very limited and controlled by Cominco. Researchers logging core on the property must be accompanied by a Cominco employee in the core area (mine safety rules) and work is limited to mine office hours (M-F, 6:30 to 3:00). An inventory of drill core is currently in progress by Cominco.

(3) Office mine data:

Data available in the mine office include maps, cross-sections, reports and the mine model.

(a) Cross-sections: - 1:40 scale cross-sections at 50 foot intervals have been compiled for both geology (lithology, structure) and grades. Sections are continuously updated with drill core and development mapping data.

(b) Drift/ramp maps: 1:200 scale with lithology, structure; locally with larger scale sketches of features or rarely photos.

(c) Reports: An extensive collection of reports (mostly descriptive) on all aspects of the mine fill a large bank of filing cabinets. All current studies should be aware of previous Cominco studies. A listing of subject areas is included.

Regional drill core:

Cominco's exploration office in Cranbrook oversees surface drilling in the Aldridge, including the periphery of the Sullivan mine (e.g. Concentrator Hill, Sullivan-North Star trend). Drill core is stored on the Sullivan mine property, and access to the core must meet mine staff rules (accompanied by a Cominco employee, mine office hours only). Cominco will make all drill core available for study and the Doug Anderson, manager of the Cranbrook office has compiled a map of the best stratigraphic drill holes throughout the Aldridge, including those of other companies (available from John Lydon in Ottawa). Discussions with other companies for access to their core have not begun.

Other available sample suites:

Two extensive sample suites are available for collaborative studies (e.g. isotopic studies, geochemistry, geochronology). Contact the owners if interested.

1) Trygve Hoy: regional samples throughout Aldridge Fm. and Moyie Sills; collected during 50,000 scale mapping.

2) Dave Shaw: alteration types in the Sullivan mine.

UPDATED PROPOSALS/PLANNING FOR 1991 :**Workshop:**

A field workshop will be held during the spring or early summer of 1992 for the purpose of presenting research results of the first year. The workshop will be held in Kimberley or Cranbrook. It is possible to hold a June 1991 workshop if there is interest expressed.

Revision of Proposals:

We need to start planning for the 1991 season. We would like to submit to Cominco by November 30 a short update of the Project that includes the field schedules for research projects that will start in 1991. Whether MDA funds will be available for this project is currently unclear; please indicate what work can proceed without MDA funding.

We need the following information from you by Nov. 20.

- 1) any changes to personnel, research goals for your project
- 2) your 1991 field work schedule for your Sullivan-Aldridge project (tentative dates please)
 - with MDA funding
 - without MDA funding
- 3) your schedule for other work on project for 1991 (we need to know which projects will be initiated and what your anticipated progress will be during 1991)
- 4) your view of the exploration relevance of your proposal
- 5) your need for sample materials (i.e. see above).
- 6) are you interested in attending a June 1991 workshop?