

## **Appendix VIII**

### **2000 Till Sample Processing, Picking and Probing**

#### **Cominco Ltd. / Exploration Research Laboratory**

Processing Flowsheet (1 page)

#### **I. & M. Morrison Geological Ltd.**

Indicator Mineral Selection Process (1 page)

Picking Results (1 page)

#### **R.L. Barnett Geological Inc.**

Methodology of Sample Preparation and

Electron Microprobe Mineral Analysis (3 pages)

Probed Eclogites (1 page and 1 plot:  $\text{TiO}_2$  vs  $\text{Na}_2\text{O}$ )

Probed Clinopyroxene (1 pages and 2 plots:  $\text{Cr}_2\text{O}_3$  vs.  $\text{CaO}$ ;  $\text{Cr}_2\text{O}_3$  vs  $\text{Na}_2\text{O}$ )



## Navigator Exploration

**From:** <Susie.Woo@cominco.com>  
**To:** <navigator@telus.net>  
**Sent:** March 12, 2001 4:14 PM  
**Attach:** V00-678H Navigator Ex.xls  
**Subject:** Heavy Mineral data

JA (Jim) McLeod, M.A.Sc., P.Eng.  
E.R.L. Manager

as requested, heavy mineral data

<<V00-678H Navigator Ex.xls>>

Also for your information, procedures/method of processing:

- 1) Samples were weighed except for the first 10 and then wet sieved in a nest of screens.
  - +18 mesh (+1 mm)
  - 18 to +35 mesh (-1 mm to +.5 mm)
  - 35 to +60 (-.5 mm to +.25 mm)
  - 60 mesh (-.25 mm)
- 2) Resulting fractions were dried and weighed.
- 3) -60 fraction had slimes decanted and result was dried and weighed.
- 4) Dried product of -18/+35 (all but last 21 samples) and -35/+60 were concentrated in TBE (2.96 S.G.) and resulting sink concentrated in MI (3.32 S.G.) ending up with float and sink products.

Hope this info is useful. If you require any more info please don't hesitate to contact me.

Susie Woo  
E.R.L. Administrator

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# I. & M. MORRISON GEOLOGICAL SERVICES LTD.

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## LABORATORY PROCEDURES

- ⇒ Samples received at I. and M. Morrison Geological Services Ltd.
- ⇒ Samples checked in against packing list, any discrepancies or breakage noted, and processing lab informed
- ⇒ A batch number is assigned to samples
- ⇒ Sample numbers entered into computer inventory, sample record is generated, samples placed in numerical order
- ⇒ Instruction sheet for samples is generated by supervising geologist and samples assigned to lab personnel
- ⇒ Samples are examined for minerals by trained lab technicians using the following equipment: binocular microscopes with magnification range of 6x to 70x, quartz halogen fiber optic illuminators, conveyor belt to handle grains, tweezers, petri dishes
- ⇒ When sample is completed, the area around the microscope is cleaned thoroughly, the potential indicator mineral grains are placed in vial and labelled, the reject portion of the sample placed in the original container
- ⇒ Results are entered into the sample record by technician and sample placed in bin
- ⇒ Sample is weighed, label on vial verified by data entry person to ensure that it matches the label on sample, results entered into computer, vial placed in vial file to be examined by geologist, reject portion of sample placed in storage
- ⇒ All picked grains verified by geologist, revised sample record generated
- ⇒ Some or all of the selected grains sent for microprobe analysis, as directed by client
- ⇒ Revised sample record entered into computer, final copy printed and proofed
- ⇒ Results reported to client by geologist via phone, fax or e-mail with hard copy and disk sent out by mail or courier if requested
- ⇒ Please note that anomalous results are reported to client on an ongoing basis