

APPENDIX A2

SAMPLE PREPARATION

The samples were washed by stirring with water to separate and remove floating organic material. (Note that sample lumps were also loosened during the stirring). The water was drained from the samples and the samples were dried at 110 degrees Celsius.

The dried samples were thinly spread on a large piece of khaki paper and a strong magnet was passed closely over the whole sample to remove any magnetic material present

The samples were gently roll mixed and five gram grab samples were taken and weighed out for digestion purposes. These sample are referred to as coarse raw samples.

The samples were split using a six-container stainless steel rotary sample divider. A sixth of the sample portions was ground in a tungsten carbide mill and the other five portions were recombined. This portion will be distinguished as the milled portion.

Both the derived, raw coarse and milled samples were digested in platinum crucible with hydrofluoric acid / sulphuric acid /nitric acid mix to remove silica.

The salts left behind from the removal of both silica and hydrofluoric acid were fused with sodium carbonate / boric acid flux in a 1000 degrees muffle furnace.

The fusion was dissolved in hydrochloric acid and made up for analysis by ICP.

Reagent blank, reference material Glass sand SpS analysis were also conducted. Working Solution Standards from Index Minerals were also measured against our ICP standards.