

Standard Soil Sample Geochem procedure

Sample Preparation

The samples have been sorted and dried. The samples have then been split with a riffle splitter and a portion then pulverised in a ring pulveriser

Analytical Methods

The sample(s) have been digested with a mixture of Acids including Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This digest approaches a Total digest for many elements however some refractory oxides are not completely attacked. If Barium occurs as the Sulphate mineral, then at high levels (more than 4000 ppm) it may re-precipitate after the digest giving seriously low results. Ba, Ce, Dy, Er, La, Nb, Rb, Sr, Y have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry. Ca, Co, Cr, Cu, Fe, Mg, Mn, Ni, Ti, Zn have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

Partial Leach Soil Sample Geochem procedure

Sample Preparation

No sample preparation was required on these samples.

Analytical Methods

The samples have been treated with a diluted Hydrochloric Acid leach to extract elements from the surface coatings on sample grains. Recovery of elements is always PARTIAL however the results may be used in establishment of path-finder elements Ba, Ce, Co, Cu, Dy, Er, La, Nb, Ni, Rb, Sr, Y, Zn. have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry. Ca, Cr, Fe, Mg, Mn, Ti have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.