

Name KEY

1. What is geochemical sampling important?

Geochemical sampling can give a better representation of the presence of valuable minerals than in a hand specimen.

2. Define the term dispersion halo.

Dispersion is the process of dispersing elements outward from a source.

3. Describe the difference between a primary dispersion halo and a secondary dispersion halo.

Primary- Primary dispersion occurs in rocks at or near the time of formation of a mineral deposit.

Secondary- Secondary dispersion refers to dispersion which occurs in the secondary environment long after the formation of a mineral deposit.

4. List at least one advantage and one disadvantage of stream sediment sampling surveys.

Advantage - It gives a greater ability to detect an ore body from a greater distance.

Disadvantage – It only gives a general idea of the location of an ore body. It does not pin point its location.

5. List and describe three different rock sampling survey methods.

Grab sample – Sample confined to a small area (<1ft).

Composite sample – Sample consists of small chips of uniform rock material collected of a large area (>5 ft).

Chip Channel Sample – Consists of small chips of rock collected over a specified interval.