



## **GEOPHYSICAL AND GEOCHEMICAL SURVEYING**

These surveys are conducted by either walking on the land, or flying in the air, along a pre-defined grid on the land subject to a claim. Sensitive instruments are used to measure physical, chemical, magnetic, or seismic variations in the ground.

The data is analyzed in a lab in order to map out the areas along the grid that show signs of mineral substances for further study.

These surveys normally occur during the EX-2, EX-3, and EX-4 stages of exploration (see the [diagram](#)).



Grids for land-based surveys require line cutting (clearing of trees and brush). The environmental impacts of these surveys are normally local and temporary.

Airborne surveys produce fewer impacts, but can produce noise and disturb wildlife.

All line cutting activities require a permit from the MERN and all surveyors must have a valid claim.