

Geophysical Surveys Using a Generator

What is this Activity?

Geophysical surveys use power generators to measure the electromagnetic properties in bedrock.

Minerals or ores in the bedrock often act as conductors for electromagnetic energy. Their electromagnetic properties will be different from bedrock that does not have zones of minerals or bodies of ore.

Geophysical surveys look for these differences to find areas that are likely to contain minerals or ores and target them for further exploration.

Ground surveys can involve laying out kilometres of wire and driving metal rods into the ground. At the end of the survey companies will recover all of the wire, rods and materials used and remove them from the site.

Footprint on the Land

The footprints will vary in size, in time, the equipment used and the number of workers present.

Control grids made by line cutting are usually needed to complete the survey. These cut lines are generally less than 1.5 meters in width.

To learn about the footprint of a specific geophysical survey it is best to speak to the proponent of the Exploration Plan.



Mining Act Requirements

An **exploration plan** must be submitted for this activity.

Provincial Standards for Early Exploration

All early exploration activities that require an Exploration plan or permit must follow the Provincial Standards for Early Exploration.

There are three parts to these Provincial Standards:

1. Rules for carrying out exploration plan activities
2. Rules for carrying out exploration permit activities
3. Rules for rehabilitation of exploration plan and exploration permit activities.

During geophysical surveys using a generator, the Provincial Standards for an exploration plan must be followed.

Post signs at exploration access points to warn people of a potential electrical hazard. Leave signs in place for the duration of the survey activity.

For the official and most up to date information on the rules for carrying out these exploration and rehabilitation activities, please refer to:

- [The Mining Act](#)
- [Exploration Plans and Exploration Permits Regulation](#)
- [Provincial Standards for Early Exploration](#)

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