

The TANBREEZ mining project plans to mine Kakortokite. Kakortokite is composed of a series of three different layers. Each layer has distinct colouring due to the different combinations of minerals; arfvedsonite (black), eudialyte (red) and feldspar-nepheline (white).

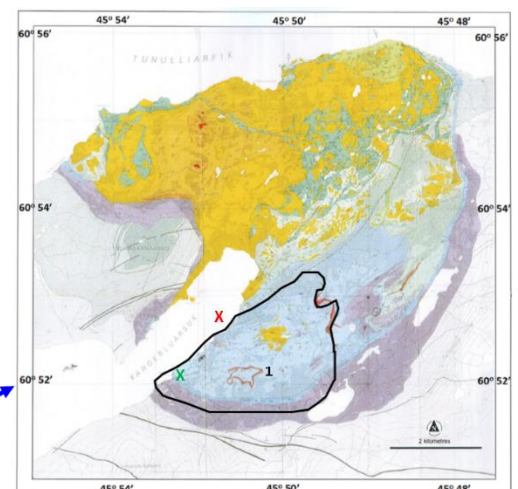
The project consists of an open mine pit, a processing plant, a port, a mine camp with supporting facilities, a tailings deposit, and internally connecting roads. The processing of the ore is a simple process where no chemicals are used, and consists of a crushing plant followed by a magnetic separator (a process that utilizes the minerals' different attractions to magnetic fields). The outcome of the separation is made up of three fractions: a black magnetic concentrate (arfvedsonite), a red concentrate (eudialyte), and a white non-magnetic concentrate (feldspar).

The project will consist of the following:

- Mine site (open pit)
- Processing plant (crushing and magnetic separation)
- Tailings deposit (Fosters Lake)
- Mine camp
- Port site (Located in the Kangerluarsuk Fjord, main access point for ships which will bring supplies and manpower)
- Storage (located at the port site for concentrates)
- Separate fuel storage near the harbour
- Helipad
- Infrastructure (roads between the mine site, processing plants, mine camp, tailings deposit, and to the port)
- Energy supply (heavy fuel power generators)
- Water supply (water will be supplied from the fjord and existing elevated lakes)
- Sewage treatment (liquid waste generated at the camp will be treated and discharged into the Fjord)
- Waste (solid waste generated at the site will be treated in an incineration plant on site).

The project plan is to initially mine approximately 500,000 tonnes of ore per annum (tpa) producing feldspar concentrate and eudialyte concentrate. The deposit is estimated to have a size of 4300 million tonnes, and therefore will be in operation for generations.

Currently, the construction phase is expected to start after the exploitation license is granted, whereas the operation phase is expected to start 18 months after the granting.



Location of Tanbreez site

1. Existing Tanbreez Ore body – Zr, REE, Nb, Ta
- X Port & Plant Site
- X Proposed Initial Mine