

## HUTTONITE



Huttonite is a relatively rare mineral known chiefly from beach sand deposits and certain alkaline igneous rocks. It is the monoclinic dimorph of thorite, and forms a series with cheralite and monazite. Northern Peninsula.

**Dickinson County:** Approximately 3 km northeast of Loretto: Huttonite in solid solution with monazite has been identified by energy dispersion electron microprobe analysis in polished sections of rocks from the lower Proterozoic Fern Creek Formation (though X-ray diffraction data are lacking). Other associated minerals of interest include monazite and an unidentified fluor-hydroxy-REE mineral (q.v.). The samples analyzed came from outcrops along the access road leading to the dam (Argast, 2002).

**UPDATE FROM: Robinson, G.W., and Carlson, S.M., 2013, Mineralogy of Michigan Update: published online by A.E. Seaman Mineral Museum, Houghton, MI, 46p.**