PECORAITE
\[ \text{Ni}_3 \text{Si}_2 \text{O}_5 (\text{OH})_4 \]

Pecoraite is a relatively rare member of the kaolinite-serpentine group. It often occurs as a low-temperature alteration product of millerite, and is typically poorly crystallized, rendering it difficult to distinguish from its more common polymorph, népouite. Northern Peninsula.

**Marquette County:** Presque Isle, Marquette: Energy dispersion X-ray spectra obtained from a number of pale yellow-green to bright grass green minerals replacing millerite from this locality all show significant amounts of Ni, Si and O, with minor, variable amounts of Mg. An X-ray powder diffraction pattern obtained from the mineral shows it is nearly amorphous, but with several very weak peaks that match well for pecoraite with admixed calcite.

Microcrystals of hematite on pecoraite from Presque Isle, Marquette County, field of view approximately 2.3 mm; Shawn Carlson specimen, John Jaszczak photograph.