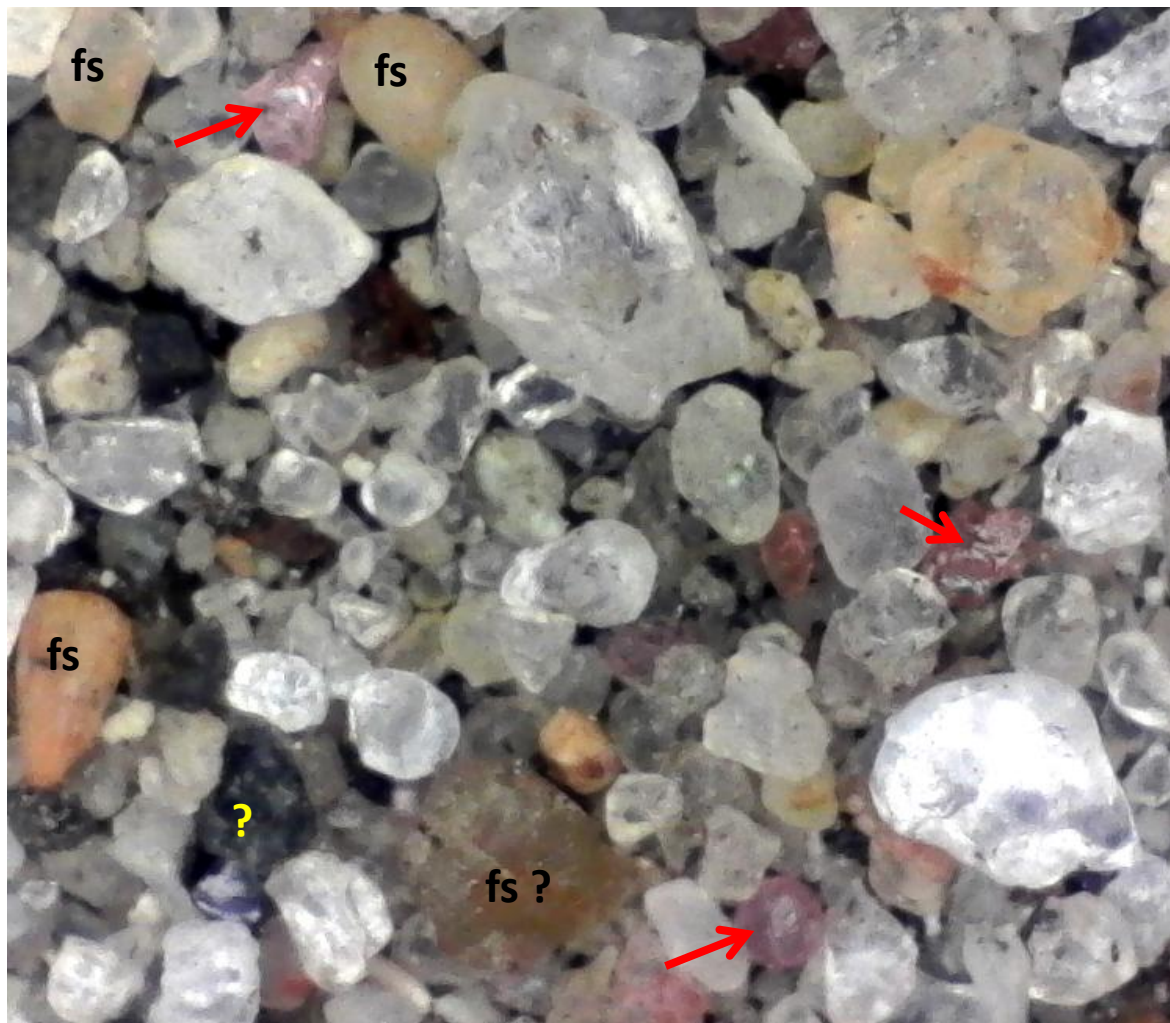


MN-1t: Upper Red Lake shoreline, Otto, MN.

N48.093372 W94.589716



I judge this sand to have fair sorting. Grains range from about 0.3mm to almost 3mm, spanning most of the range of medium and coarse grained sand. There is no large gravel or silt in the sample. Most grains are subrounded, some might be considered angular. The dominant mineral is quartz. Some grains are transparent while others appear frosted or milky implying multiple sources or transport mechanisms. There is a bit of feldspar (fs) and likely some tumbled rock fragments. A fair amount of the quartz is iron-stained and along with the feldspar produces the sand's tan/brown color. The blackish material is organic and likely of local origin. It is light and rises to the surface when the sample is shaken.

FOV ~ 5mm across

Red arrows point to garnet grains that are found throughout the sand. The rounded garnet near the bottom may even have some crystal faces