Hydroromarchite  \(\text{Sn}^{2+}_{3}\text{O}_2\text{(OH)}_2\)

Crystal Data:  Tetragonal.  *Point Group*:  \(4/m 2/m 2/m\).  In thin crusts intermixed with romarchite.

Physical Properties:  Hardness = n.d.  \(\text{D(meas.)} = \text{n.d.}\)  \(\text{D(calc.)} = [2.40]\)


Cell Data:  *Space Group*:  \(P4/mnc\) (synthetic).  \(a = 7.98(1)\)  \(c = 9.17(1)\)  \(Z = 2\)

3.50 (100), 2.77 (90), 2.96 (80), 3.26 (50), 1.92 (50), 1.90 (50), 2.48 (40)

Chemistry:  Boundary Falls, Canada; X-ray spectrographic scans detected only tin.

Occurrence:  As an alteration product on tin pannikins immersed in a river.

Association:  Romarchite.

Distribution:  At Boundary Falls, Winnipeg River, Ontario, Canada, where tin pannikins had been dropped by a voyageur between 1801 and 1821.

Name:  As a HYDROUS mineral related to *romarchite*.

Type Material:  Royal Ontario Museum, Toronto, Canada, M28744.