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Crystal Data: Tetragonal. Point Group: $4/m \ 2/m \ 2/m$. Prismatic crystals, to 0.1 μ m, with basal or pyramidal terminations, in pulverulent masses.

Physical Properties: Hardness = ~ 5 D(meas.) = n.d. D(calc.) = 4.25

Optical Properties: Semitransparent. Color: Canary-yellow, pale tan. Optical Class: Uniaxial (+) (synthetic). $\omega = 2.00(1)$ $\epsilon = 2.14(1)$

Cell Data: Space Group: $I4_1/amd$ (synthetic). a = 7.105(3) c = 6.20(1) Z = 4

X-ray Powder Pattern: Evans-Lou quarry, Canada. 3.56 (100), 1.824 (75), 2.66 (50), 2.51 (30), 2.21 (25), 1.774 (20), 4.74 (17)

Chemistry: (1) Evans-Lou quarry, Canada; identity of wakefieldite-(Y) depends on Y and V determined as major elements, and correspondence of its X-ray pattern with synthetic YVO₄.

Occurrence: In quartz in a zoned granite pegmatite (Evans-Lou quarry, Canada).

Association: Hellandite, quartz, kainosite-(Y), montmorillonite (Evans-Lou quarry, Canada).

Distribution: In the Evans-Lou quarry, near Wakefield Lake, Quebec, Canada. From the White Tank Mountains, Maricopa Co., Arizona, USA.

Name: For Wakefield Lake, nearby the Evans-Lou quarry, Canada, and the dominant rare earth, *yttrium*.

Type Material: Geological Survey of Canada, Ottawa, 12165; University of Ottawa, Ottawa; Royal Ontario Museum, Toronto, Canada, M30382.

References: (1) Miles, N.M., D.D. Hogarth, and D.S. Russell (1971) Wakefieldite, yttrium vanadate, a new mineral from Quebec. Amer. Mineral., 56, 395–410.