Crystal Data: Monoclinic. *Point Group*: 2/*m*. As aggregates of acicular crystals to 1 mm, elongated along [100]. *Twinning*: On {100}.

Physical Properties: Cleavage: None. Tenacity: Brittle. Fracture: Uneven. Hardness = $2 \cdot D(\text{meas.}) = \text{n.d.}$ $D(\text{calc.}) = 2.525 \cdot \text{Non-fluorescent.}$

Optical Properties: Transparent. *Color*: Sky-blue. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (-) $\alpha = 1.541(2)$ $\beta = 1.548(2)$ $\gamma = 1.550(2)$ 2V(calc.) = 56° *Orientation*: X = a, Y = b, Z = c. *Pleochroism*: Faint, but distinct; Y = Z = pale blue, X = very pale greenish blue. *Dispersion*: Y = very weak.

Cell Data: *Space Group*: P2/c. a = 4.9573(2) b = 12.1824(4) c = 18.9749(8) $\beta = 90.933(6)$ ° Z = 4

X-Ray Diffraction Pattern: Great Australia mine, Cloncurry, Queensland, Australia. 6.101 (100), 5.621 (91), 9.515 (67), 3.976 (21), 3.338 (21), 4.753 (17), 3.163 (17) [Distinguished from nevadaite by analytical confirmation of the presence of VO²⁺ and the presence of the 5.832 (6) reflection in X-ray powder diffraction data.]

Chemistry	,
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	(1)
CuO	10.29
VO_2	8.32
Al_2O_3	23.63
Fe_2O_3	0.32
P_2O_5	32.54
F	4.34
H_2O	[22.4]
$-\mathbf{O} = \mathbf{F}$	1.83
Total	100.00

(1) Great Australia mine, Cloncurry, Queensland, Australia; average electron microprobe analysis supplemented by Raman spectroscopy, H_2O by difference; corresponds to $[Cu_{0.56}(VO)_{0.44}]_{\Sigma=1.00}(Al_{2.02}Fe_{0.02})_{\Sigma=2.04}(PO_4)_2F_{1.00}(OH)_{1.00} \cdot 4.92H_2O.$

Occurrence: A product of the weathering in silicified goethite-hematite gossan.

Association: Malachite, pseudomalachite, cuprite, native copper.

Distribution: From the B Tangye lode, Great Australia mine, Cloncurry, Queensland, Australia.

Name: For the town of *Cloncurry*, near where specimens were first collected.

Type Material: Geosciences Department, Museum Victoria, Australia (M49502).

References: (1) Colchester, D.M., P. Leverett, A.R. McKinnon, J.L. Sharpe, P.A. Williams, D.E. Hibbs, P. Turner, and V.H. Hoppe (2007) Cloncurryite, Cu_{0.56}(VO)_{0.44}Al₂(PO₄)₂(F,OH)₂·5H₂O, a new mineral from the Great Australia mine, Cloncurry, Queensland, Australia, and its relationship to nevadaite, Australian J. Mineral., 13(1), 5-13.