**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 D(meas.) = n.d. D(calc.) = 2.525 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*: x < v, 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 VO<sup>2+</sup> and the presence of the 5.832 (6) reflection in X-ray powder diffraction data.]

Chemistry:		(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]

(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<sub>0.56</sub>(VO)<sub>0.44</sub>Al<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub>(F,OH)<sub>2</sub>•5H<sub>2</sub>O, a new mineral from the Great Australia mine, Cloncurry, Queensland, Australia, and its relationship to nevadaite, Australian J. Mineral., 13(1), 5-13.