Crystal Data: Monoclinic. Point Group: 2/m. As acicular crystals to 0.4 mm in sprays to 0.8 mm.

Physical Properties: Cleavage: Perfect on $\{100\}$ (by analogy to serpierite). Tenacity: Brittle. Fracture: Irregular. Hardness = ~ 3 D(meas.) = 3.25(3) D(calc.) = 3.33

Optical Properties: Transparent. *Color*: Pale blue. *Streak*: Pale blue. *Luster*: Vitreous. *Optical Class*: Biaxial (-). $\alpha = 1.596(3)$ $\beta = 1.636(3)$ $\gamma = 1.643(3)$ 2V(calc.) = 44.5° *Orientation*: n.d. *Pleochroism*: Weak, X = pale yellowish blue, Y = pale blue, Z = pale greenish blue.

Cell Data: Space Group: C2/c. a = 22.049(2) b = 6.212(2) c = 21.839(2) $\beta = 113.19(3)^{\circ}$ Z = 8

X-Ray Diffraction Pattern: Block 14 open cut, Broken Hill, New South Wales, Australia. 10.167 (100), 2.645 (60), 5.076 (55), 2.439 (50), 3.380 (35), 2.167 (35), 2.704 (30)

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	(1)
CdO	9.25
CaO	4.95
PbO	0.04
CuO	40.49
ZnO	8.48
SO_3	24.01
H_2O	[16.59]
Total	103.83

(1) Block 14 open cut, Broken Hill, New South Wales, Australia; average electron microprobe analysis supplemented by IR spectroscopy, H_2O calculated for charge balance; corresponds to $(Cd_{0.62}Ca_{0.39})_{\Sigma=1.01}(Cu_{2.89}Zn_{1.10})_{\Sigma=3.99}(SO_4)_2(OH)_6\cdot 3H_2O$.

Occurrence: Secondary mineral in the oxidation zone of a galena, Cd-bearing sphalerite, and chalcopyrite deposit.

Association: Neidermayrite, pyromorphite.

Distribution: From the Kintore and Block 14 open cuts, Broken Hill, New South Wales, Australia.

Name: Honors Edward William *Aldridge*, owner of the Duke of Cornwall Hotel, Broken Hill, Australia and collector of the first major Broken Hill mineral specimen collection (1888-1891).

Type Material: South Australian Museum, Adelaide, South Australia (G33030).

References: (1) Elliot, P. and A. Pring (2015) Aldridgeite, a new mineral from the Block 14 open cut, Broken Hill, New South Wales. Australian J. Mineral., 17, 67-71.