Crystal Data: Triclinic. Point Group: $\overline{1}$. As masses of platy crystals, tabular on $\{010\}$, with minor $\{100\}$, $\{\overline{1}01\}$, and $\{101\}$, to 0.3 mm.

Physical Properties: Cleavage: Perfect on {010}. Fracture: Uneven to subconchoidal. Tenacity: Brittle. Hardness = 3-4 D(meas.) = n.d. D(calc.) = 4.50

Optical Properties: Transparent to translucent. Color: Emerald-green to pale green; brownish white in reflected light with turquoise-blue internal reflections. Streak: Pale green. Luster: Vitreous to adamantine on cleavages. Optical Class: Biaxial. n = [1.71-1.73]

Cell Data: Space Group: $P\overline{1}$. a = 8.9903(7) b = 10.1197(8) c = 8.9959(7) $\alpha = 102.654(1)^{\circ}$ $\beta = 92.432(1)^{\circ}$ $\gamma = 70.432(1)^{\circ}$ Z = 1

X-ray Powder Pattern: Centennial Eureka mine, Utah, USA. 3.097(100), 9.28(70), 4.65(70), 3.018(60), 2.658(50), 2.468(50), 1.740(50)

Chemistry:

	(1)	(2)
$\mathrm{As_2O_5}$	23.17	22.53
${ m TeO}_2$	29.99	31.30
FeO	0.26	
CuO	38.51	39.00
CaO	2.52	2.75
${\rm H_2O}$	[4.39]	4.42
Total	[98.84]	100.00

(1) Centennial Eureka mine, Utah, USA; by electron microprobe, total Fe as FeO, H₂O calculated $from \ stoichiometry; \ corresponds \ to \ (Ca_{0.92}Fe_{0.07})_{\Sigma=0.99}Cu_{9.94}(Te_{0.96}O_3)_4(As_{1.04}O_4)_4(OH)_2 \bullet 4H_2O.$ (2) $CaCu_{10}(TeO_3)_4(AsO_4)_4(OH)_2 \cdot 4H_2O$.

Occurrence: A very rare secondary mineral formed by the reaction of enargite and tellurium-enriched solutions.

Association: Enargite, beudantite, quartz.

Distribution: Found on a dump at the Centennial Eureka mine, 1.5 km southwest of Eureka, Tintic district, Juab Co., Utah, USA.

Name: For Juab Co., Utah, USA, where the first specimen was collected.

Type Material: The Natural History Museum, London, England, 1997,1; Canadian Geological Survey, Ottawa, Canada, 67959.

References: (1) Roberts, A.C., R.A. Gault, M.C. Jensen, A.J. Criddle, and E.A. Moffatt (1997) Juabite, Cu₅(Te⁶⁺O₄)₂(As⁵⁺O₄)₂•3H₂O, a new mineral species from the Centennial Eureka mine, Juab County, Utah. Mineral. Mag., 61, 139-144. (2) (1997) Amer. Mineral., 82, 1262 (abs. ref. 1). (3) Burns, P.C., C.M. Clark, and R.A, Gault (2000) Juabite, $CaCu_{10}(Te^{4}+O_{3})_{4}(AsO_{4})_{4}(OH)_{2}(H_{2}O)_{4}$: crystal structure and revision of the chemical formula. Can. Mineral., 38, 809–816.