AUG 13, 1983 LONG LAKE H. AWMACK

32868 Cu showing on west shore of Long Lake. Fg greywacke (?), silicified and qtz-brecciated. Vuggy qtz veinlets. 1% py and minor bornite (+ chalcocite ??) disseminated in qtz. Much malachite; patches of azurite (from tetrahedrite ??). Silicification and mineralization in small patches (largest 1m × 3m, not wholly altered) with no apparent structural control.

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SPECIMENS - LONG LAKE

AUG 13/83	32868	Cu show - silicified greywacke
AUG 14/83	HA83-77	Kechika - black shale
	78	Chert - Kechika Syl
	79	Limy greywacke - Kechika Syl
	80	Float - Fe carb-po-py
	32869	Clay altered, rad
	32870	Fe carb, py, aspy
AUG 15	81	A-desth Tuff - Syl vein
	32871	Qtz vein
	32872	Qtz-clay-py
	32873	Qtz-clay-py
	32874	Qtz-clay-py
	32875	Fe-carb, marcasite
AUG 16, 1983	82	Atan - thumbedded siltstone
	32876, 83	Atan - qtz sandstone
	32877	" " (thumbedded)
	32878	Atan - red limestone
AUG 17, 1983	84	Limey Siltstone
AUG 18, 1983	85	Kechika grey dolomite
	86	Unit 6 - qtz sandstone (Atan)

AUG 14, 1983 LONG LAKE

Traverse up camp creek - no outcrop for long distance. Lowest o/cs are black shale, thinly cleaved (parallel to bedding), slightly goethitic probably graphitic. At least one 50 cm band of finely crystalline black limestone, massive (uncleaved) Contact parallels shale cleavage; both slightly warped 120/65 SW

HA83-77 Black shale; fg, well-cleaved, graphitic? minor fg disseminated py, minor qtz(?) clasts (is sandstone. Kechika gp.

HA83-78 Light grey chert, minor fg dissem py. Cut by many black hairline fractures, some black calcite stringers. Banded with 4cm bands of chert interbanded with 0.5cm bands phyllitic argillite. X160/80W

The chert is locally green-grey (argillaceous), soft and phyllitic (but still with good chert pockets/beds)

HA83-79 Limy greywacke; light grey, finely clastic fizzes somewhat with HCl, calcite stringers. No py Bands up to 3m wide in black shale.

Minor cpy in qtz vein float

32869 Zone of strongly clay altered rock in o/c of ?,
dk grey chert and black shale. Much yellow and
green clay minerals and some malachite. Zone <2m wide,
exposed for 3m length ⊀ 120/70 SW (?) ~/m
Much pyrite in remainder of o/c. Carb-altered
and vein qtz float nearby.

HA83-80 10 m upstream, in float. Fe-carb
altered andesitic breccia with 5% coarse pyrr
3% radiating marcasite.

32870 Fe-carb altered breccia. Abdt fg py, lesser
aspy, rare coarse radiating marcasite. Bright
orange weathering. Exposed for 12 x 2 m in
creek, open on all sides. ⊀ Trends 170. Andesites
o/c down and upstream.

AUG 15, 1983 LONG LAKE

Traverse up creek

WA83-81 Andesite tuff, 1% disseminated py fg, green-grey, sericitic?, weak fe-carb altered andesite

32871C Milky qtz vein, abdt soft black phyllitic pyritic (vfg, dissem) ribbons parallel to walls. In andesite (v pyritic) 5m W of contact with 10m wide parallel serpentinite body. Vein is 140 cm wide here (open to east), probably pinches up and down (not enough float). ↑ 125/80N

32872C Qtz-clay ser-py altered andesite. 5% vfg py along stringers and disseminated. Rare aspy. Milky qtz-cal veins (look dead; not sampled). Irregular zone ~ 20m wide, trends 125° (Note: would almost line up with 32871C)

32873C Strongly silicified (+ clay/sericite) andesite 2% fg py. Brecciated locally. Two zones 60 cm and 100 cm wide 10m apart ↑040/90

32874 Strongly clay altered and silicified rock. Up to 10% py. Rubble (clay altered rock v. soft). Much rubble for

for 100 m to east, rusty rock (but less altered).
~~Rare~~ Minor native sulphur. N-S trending alt^n zone?
(i.e. across valley).

32875 Fe-carb altered rock, 10% mariposite, red qtz + ankerite. No sulphides. Several boulders, near place (?)
Big vein qtz (Fe carb fractures) boulders below.
From the amount of F-C boulders, I think the zone runs up the gully.

AUG 16, 1983 LONG LAKE

Traverse to carbonates above Rosella Ck

HA83-82 Atan - thin-bedded siltstone, fg, grey-brown, soft, no rxn with HCl. Rubbly and recessive (Creeks probably follow str.lo of ss.)

Ls and dol very variable. Ls - black, arg. lmaceous to white, finely crystalline, grey to rdbr weathering. Dol - mainly white, finely crystalline rdbr to grey weathering.

Spec from farther south, same though thicker bedded (more massive, less rubbly), blue-grey.

HA83-83 Atan - qtz sandstone, mod graded, well-sorted clean orthoquartzite. # slightly limonitic 32876 from this same o/c. First in a series of samples to try to find source for Rosella Ck placers.

32877 Atan qtz sandstone; slight yellowish tinge (white) earthy hematite along ~~stringers~~ fractures and in patches

32878 Atan brickered limestone (hematitic); possibly stromatolitic; red shale bands. Underlain by thin-bedded clastic

grey limestone. Overlain by massive grey limestone ~3m thick. Cf Sabkha

Next ridge west has 10m red ls underlying 10 m grey ls.

AUG 17, 1983 LONG LAKE

Snow.

#83CAA-1 B Rdbr 30 cm silt/clay/sand 1% org
Fir ~2° slope Taken from wall of second most northerly trench, east side of Long Lake. Neither tractor trench hits bedrock. They apparently tried to hit recessive unit west of prominent grey ridge and east of less prominent black limestone. No existing Mond. Cu Pb Zn Au As

Two trenches further south expose black, unaltered limestone; no sulphides.

HA83-84 Limey claystone - soft, olive grey claystone to siltstone, quite limey. Limestone nodules. Thin bedded (or cleaved?). Irregular platey rubble, recessive. Finer-grained to west (ie top)

AUG 18, 1983 LONG LAKE

Traverse west of central middle and southern Long Lake.

Prominent ridge east of long lake is clean orthoquartzite sandstone, v. similar to unit 2 QS (of spec 3287b, 77) although not limonitic. Cream-colored, med-fine grained, very uniform grain size, entirely rounded qtz grains, massive (bedding traces are evident), resistant to weathering (unit 6 - Altan qtz sandstone). No carbonates.

Stratigraphically upwards (ie west up ridge face), the qtz sandstone becomes finergrained and dolomitic. Beds are narrower, rock is greyer. (HA83-85) Sulphurous odor. Kechika dolostone. Grey-weathering.

Farther up, the bedded dolomite is replaced by a sedimentary breccia of grey dolomite clasts in a creamy dolomite matrix.

HA83-86 Altan qtz sandstone (see top of page for description)

Note: Kechika dolo is black (but sulphurous) grey (weathering) at S end of lake.