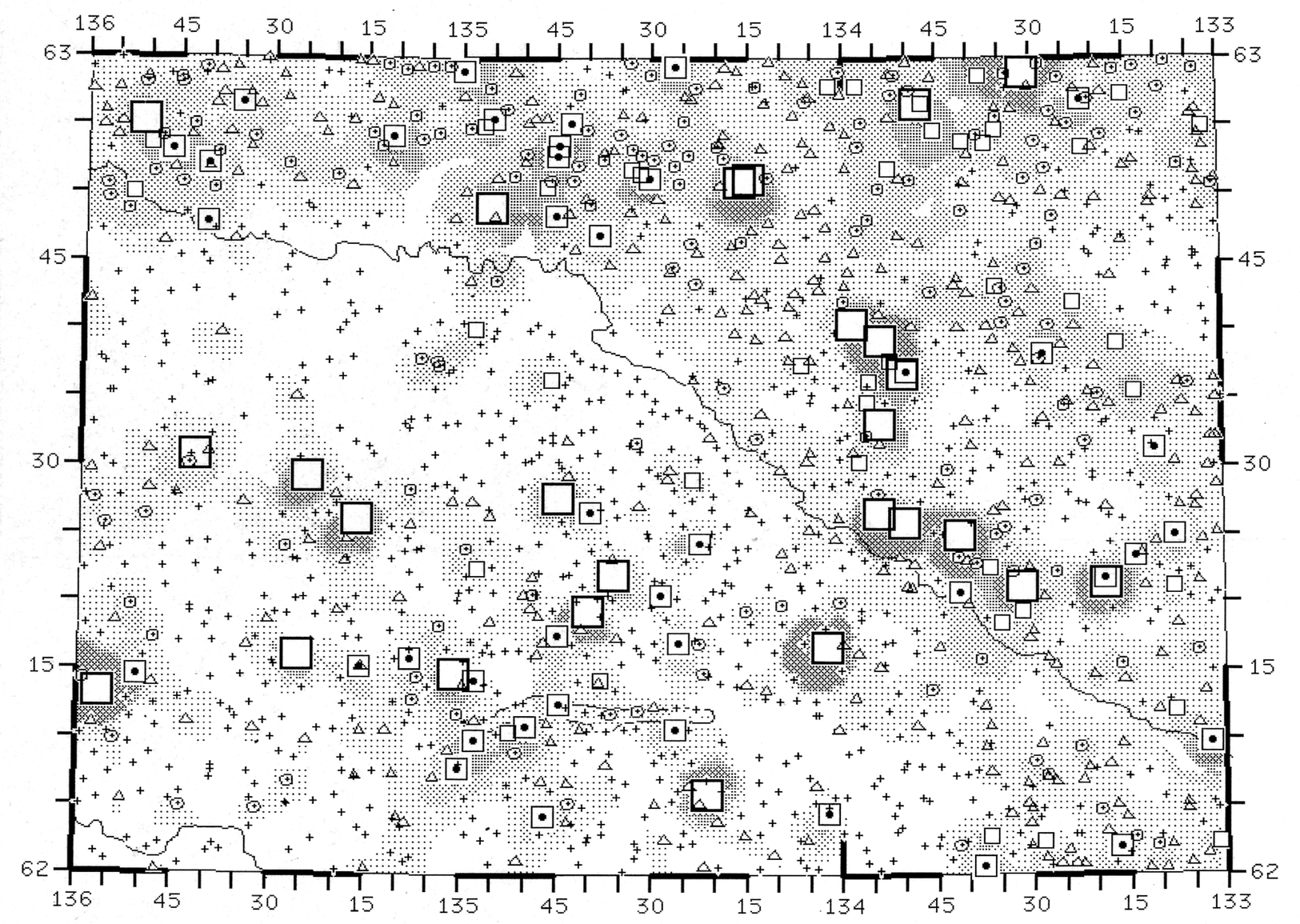


REGIONAL TREND MAP

0 20 40 60
KILOMETERS - SCALE 1:1000000

GOLD IN STREAM SEDIMENTS

PPB	NTILE
316.0	MAX
20.0	98
10.0	95
7.0	90
4.0	80
2.0	50
0.5	MIN

1379 SAMPLES

PPB	NTILE
316.0	MAX
10.0	95
7.0	90
4.0	80
2.0	50
0.5	MIN

1379 SAMPLES

GSC OPEN FILE 1961
CANADA - YUKON
MINERAL DEVELOPMENT
AGREEMENT (1985-1989)

Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

Contribution à l'Entente auxiliaire Canada/Yukon sur l'exploitation minérale 1985-89 dans le cadre de l'Entente Canada/Yukon sur le développement économique.

Yukon

Canada

0 20 40 60
KILOMETERS - SCALE 1:1000000

SURFICIAL GEOLOGY

Q — Undivided surficial deposits, includes unconsolidated gravels, sands, silt, alluvium, colluvium, till, glaciofluvial deposits, kames, eskers and outwash deposits

R — Bedrock; includes discontinous veneer of undivided glacial drift

SYMBOLS

Surficial deposit boundary ....

Limit of ice advance ....

Major meltwater channels, indicating direction of flow .....

Drumlinoid form; direction of glacial movement inferred, not inferred ....

Sources of information:

Cockfield, W.E. (1935) Laberge Sheet - Yukon Territory, Geological Survey of Canada Map 372A, Scale 1: 253,440

Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1969) Glacial Map of Yukon Territory - South of 65 degrees north latitude; Geological Survey of Canada Map 6-1968; Scale 1: 1,000,000

Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada Map 1253A; Scale 1: 5,000,000

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
EXPLORATION GEOCHEMISTRY SUBDIVISION

CONTRACTORS

Collection: Northway Map Technology, Ltd.,Don Mills, Ontario

Preparation: Golder Associates, Ottawa

Sediment Analysis: Bondar-Clegg and Company Ltd., Ottawa
Chemex Labs Limited, Vancouver (Au only)

Water Analysis: Chemex Labs Limited, Vancouver

Cartography: GSC – Geological Information Division
Terra Surveys Ltd., Ottawa

Reproduction: Ashley Reproductions Ltd., Ottawa

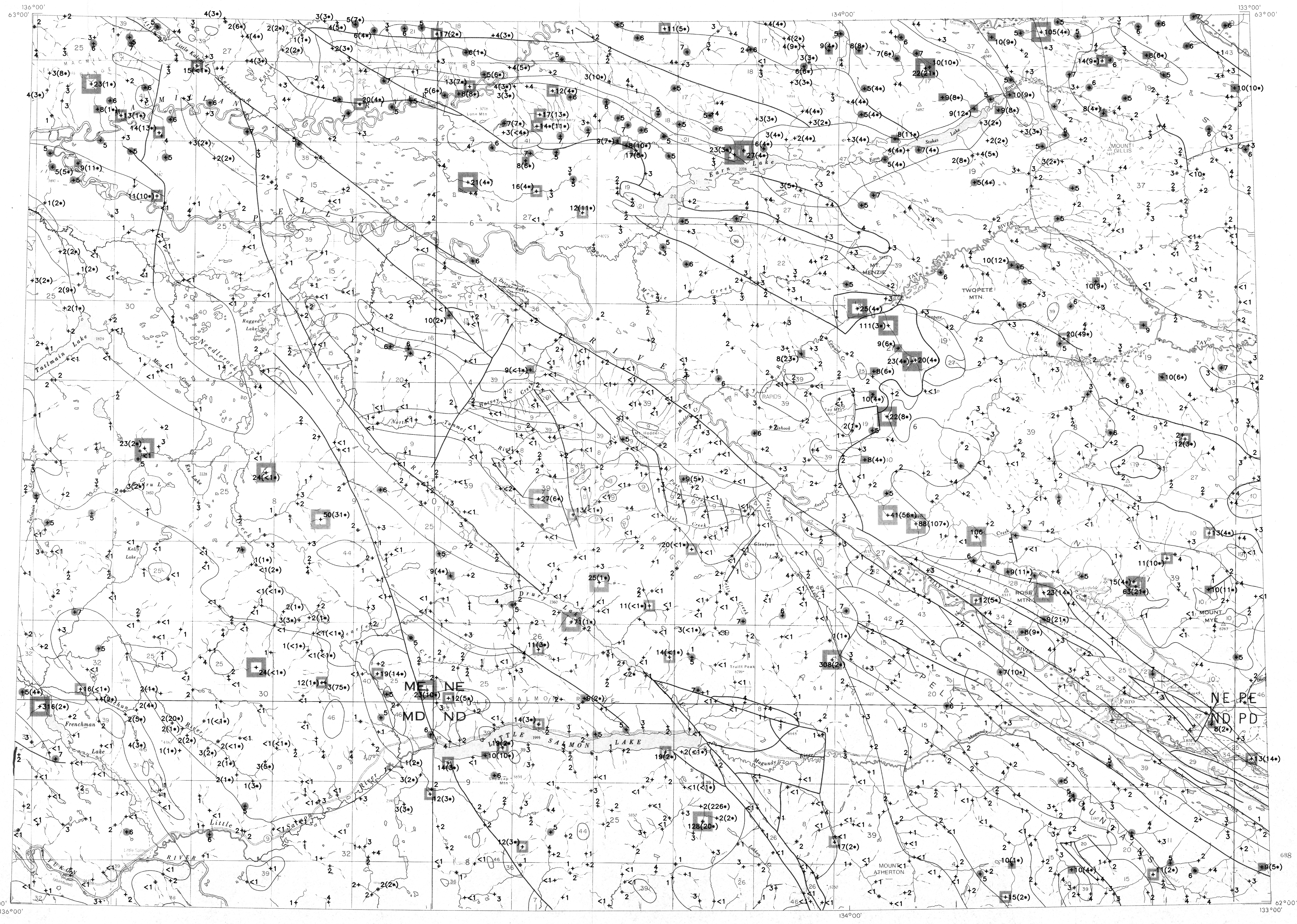
Copies of the OpenFile are available from:
Geological Survey of Canada
Publications Distribution
601 Booth Street
Ottawa, Ontario K1A 0E8
Tel.: (613) 995 – 4342

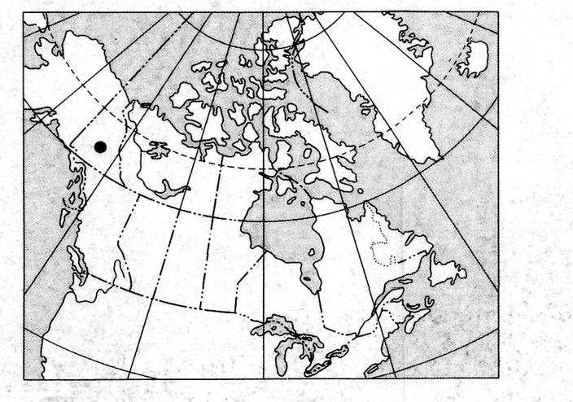
CONCENTRATION		FREQUENCY
21 to 316	⊡	N= 26(1.9%)
11 to 20	⊡	N= 41(3.0%)
8 to 10	■	N= 41(3.0%)
5 to 7	●	N= 159(11.5%)
0 to 4	+	N=1112(80.6%)

Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

GEOLOGICAL SURVEY OF CANADA — COMMISSION GÉOLOGIQUE DU CANADA

NTS 105L, 105K ($W\frac{1}{2}$)





INDEX MAP

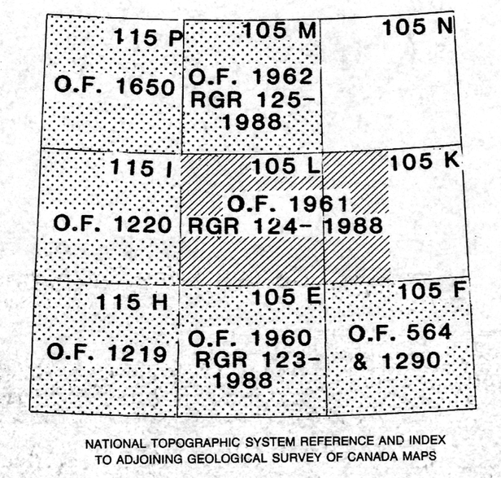
GOLD (ppb)
STREAM SEDIMENTS
GSC OPEN FILE 1961
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 124-88
CANADA – YUKON
MINERAL DEVELOPMENT AGREEMENT (1985 – 1989)

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
CENTRAL YUKON, 1988

Scale 1:250 000 - Échelle 1/250 000

Kilometres 5 0 5 10 15 20 Kilomètres

Universal Transverse Mercator Projection — Projection transverse universelle de Mercator



GOLD (ppb)
STREAM SEDIMENTS
GSC OPEN FILE 1961
CENTRAL YUKON, 1988

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

47*	Qs	64**	glacial and surficial deposits

TERTIARY

PLIOCENE

46	Pv	62	basalt

LATE TERTIARY

45	LTg	62	rhyolite porphyry, granite, granodiorite

EARLY TERTIARY

44	ETf	57	granite and syenite porphyry

LOWER TERTIARY

43	lTs	58	conglomerate, sandstone, and shale
42	Tfp	58	feldspar porphyry dykes and flows
41	Tvr	58	rhyolite, quartz feldspar porphyry

CRETACEOUS

40	Ky	52	syenite, monzonite
39	Kqm	52	quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
38	Kgdp JKdi	52 51	granodiorite and monzonite porphyry diorite, hornblende diorite
37	KSF	52	SOUTH FORK: andesite, dacite, basalt

JURASSIC AND CRETACEOUS

36	JKT	51	TANTALUS: conglomerate, siltstone, arkose, coal

JURASSIC

35	JL	47	LABERGE GROUP: greywacke, arkose, conglomerate

TRIASSIC

34	Tcg	42	polymictic conglomerate
33	Ts	42	sandstone, siltstone
32	Tv	42	basaltic greenstone

UPPER TRIASSIC

31	uTLW uTc	45 45	LEWES RIVER GROUP: greywacke, argillite, conglomerate LEWES RIVER GROUP: limestone

MESOZOIC

30	Mgdn	41	foliated hornblende granodiorite, quartz monzonite

PENNSYLVANIAN AND PERMIAN

29	PPAc	35	ANVIL RANGE GROUP: limestone
28	PPAt	35	ANVIL RANGE GROUP: chert

CARBONIFEROUS AND PERMIAN

27	CPAv	35	ANVIL RANGE GROUP: andesite, basalt, slate, chert, limestone
26	CPv	35	andesite, basalt, chert, tuff
25	CPsn	35	schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX

PALEOZOIC AND MESOZOIC

24	PTub PMub CPub	40 40 35	pyroxenite, serpentinite ultramafic rocks serpentinite, diorite, pyroxenite, peridotite

CARBONIFEROUS

23	Cc	30	limestone

MISSISSIPPIAN

22	MEu	34	EARN GROUP (upper): chert, argillite, quartzite, limestone
21	MK	34	KALZAS: limestone, argillite, chert

DEVONIAN AND MISSISSIPPIAN

20	DMS	29	SYLVESTER GROUP: shale, chert arenite, conglomerate, basic volcanic rocks
19	DME	29	EARN GROUP: undivided; shale, chert arenite, conglomerate
18	DMCP	29	CRYSTAL PEAKS: chert pebble conglomerate

DEVONIAN

17	DEl	25	EARN GROUP (lower): slate, quartzite, limestone

SILURIAN AND DEVONIAN

16	SDAc	24	ASKIN GROUP: dolomite, limestone
15	SDAq	24	ASKIN GROUP: quartzite, shale
14	SDcq	24	dolomite, quartzite, argillite

ORDOVICIAN, SILURIAN, AND LOWER DEVONIAN

13	OSDR	19	ROAD RIVER: black graptolitic shale, chert

CAMBRIAN AND ORDOVICIAN

12	COH	14	HARVEY GROUP: shale, phyllite
11	COK	14	KECHIKA GROUP: phyllite, limestone
10	COp	14	shale, limestone

LOWER CAMBRIAN

9	lCHC	11	HARVEY GROUP: limestone
8	lCHq	11	HARVEY GROUP: quartzite, schist

PALEOZOIC AND MESOZOIC

7	PTc Pc	40 09	limestone limestone
6	Pv	09	greenstone, amphibolite

PALEOZOIC

5	Pgdn	09	PELLY GNEISS: foliated to gneissic granodiorite

HADRYNIAN AND CAMBRIAN

4	HCsn	08	schist, gneiss, quartzite

HADRYNIAN

3	Hc	07	crystalline limestone
2	Hqp	07	gritty quartzite, argillite, shale, phyllite (may include lower Cambrian)
1	Hp	07	shale, phyllite

* Map unit number for rock type

**A mnemonic code assigned to rock type and age recorded as part of field observations.

SYMBOLS

Geological boundary ....

Fault ....

No data .... *

Single analysis, 10g sample weight .... +27

Single analysis, <10g sample weight .... +27*

Repeat analysis, both samples 10g .... +27 (14)

Repeat analysis, first sample 10g, repeat <10g .... +27(14*)

Single analysis, 10g sample, less than detection limit of 1 ppb ... +<1

Field duplicate site .... *

Geology base and legend are derived from:

Gabrielse, H., Tempelman-Kluit, D.J., Blusson, S.L., and Campbell, R.B.,(1980) Map 1398A, MacMillan River, Yukon - District of Mackenzie - Alaska, NTS Map area 105, Geological Survey of Canada: Energy, Mines and Resources Canada, Scale 1:1,000,000

Elevation in feet above mean sea level

Magnetic declination at the center of the map area (62°30'N; 134°30'E) in 1989 is 30°29'E decreasing 12.2' annually. Magnetic declination ranges from 29°47'E, decreasing 11.6'annually, in the southwest corner of the map area, to 31°12'E, decreasing 12.9' annually, in the northeast corner of the map area.

GOLD (ppb)
STREAM SEDIMENTS
GSC OPEN FILE 1961
CENTRAL YUKON, 1988