

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.

Geological Survey of Canada
 Resource Geophysics and Geochemistry Division
 CONTRACTORS
 Sample collection by Rogers Exploration Services Ltd., Whitehorse
 Sample preparation by Golder Associates, Ottawa
 Gold analysis by Chemex Labs Limited, Vancouver, B.C.
 Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

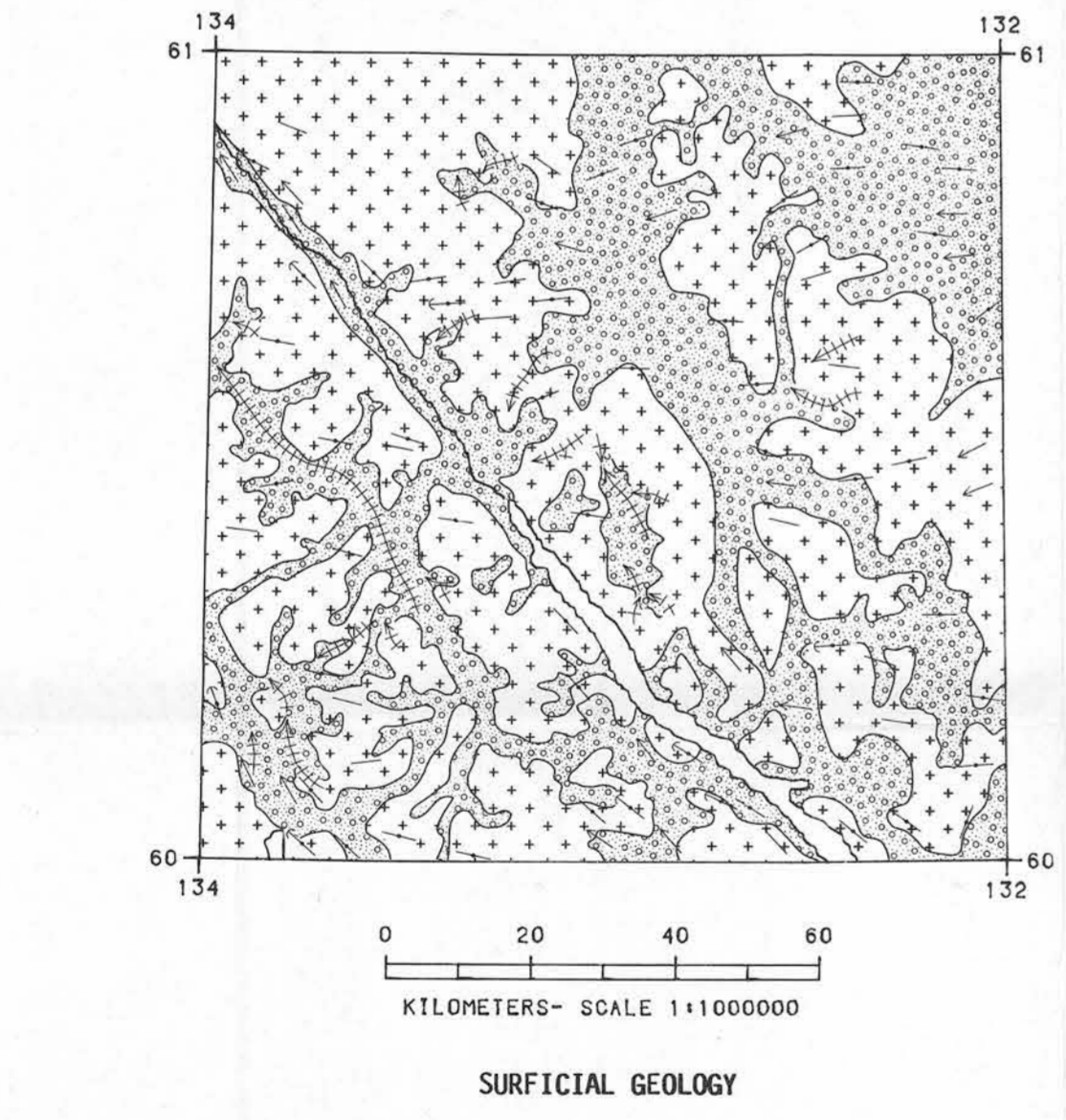
This map forms one of a series of maps released by the Geological Survey of Canada, Open Files 1217 to 1220. Each Open File consists of maps of various geochemical variables: 21 for stream sediment, 3 for stream water and 1 sample site location

Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
 880 Wellington St.
 Bay 238
 Ottawa, Ontario
 K1R 6K7

The data are also available in digital form. For further information please contact:

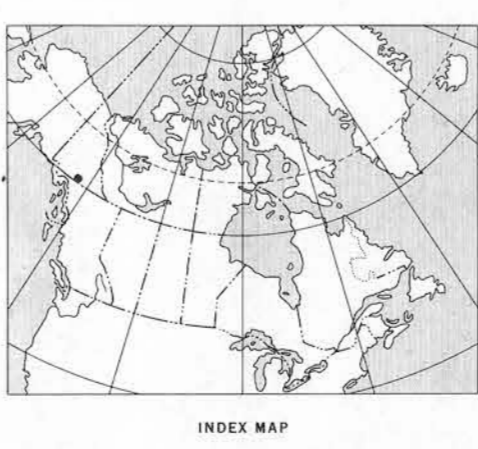
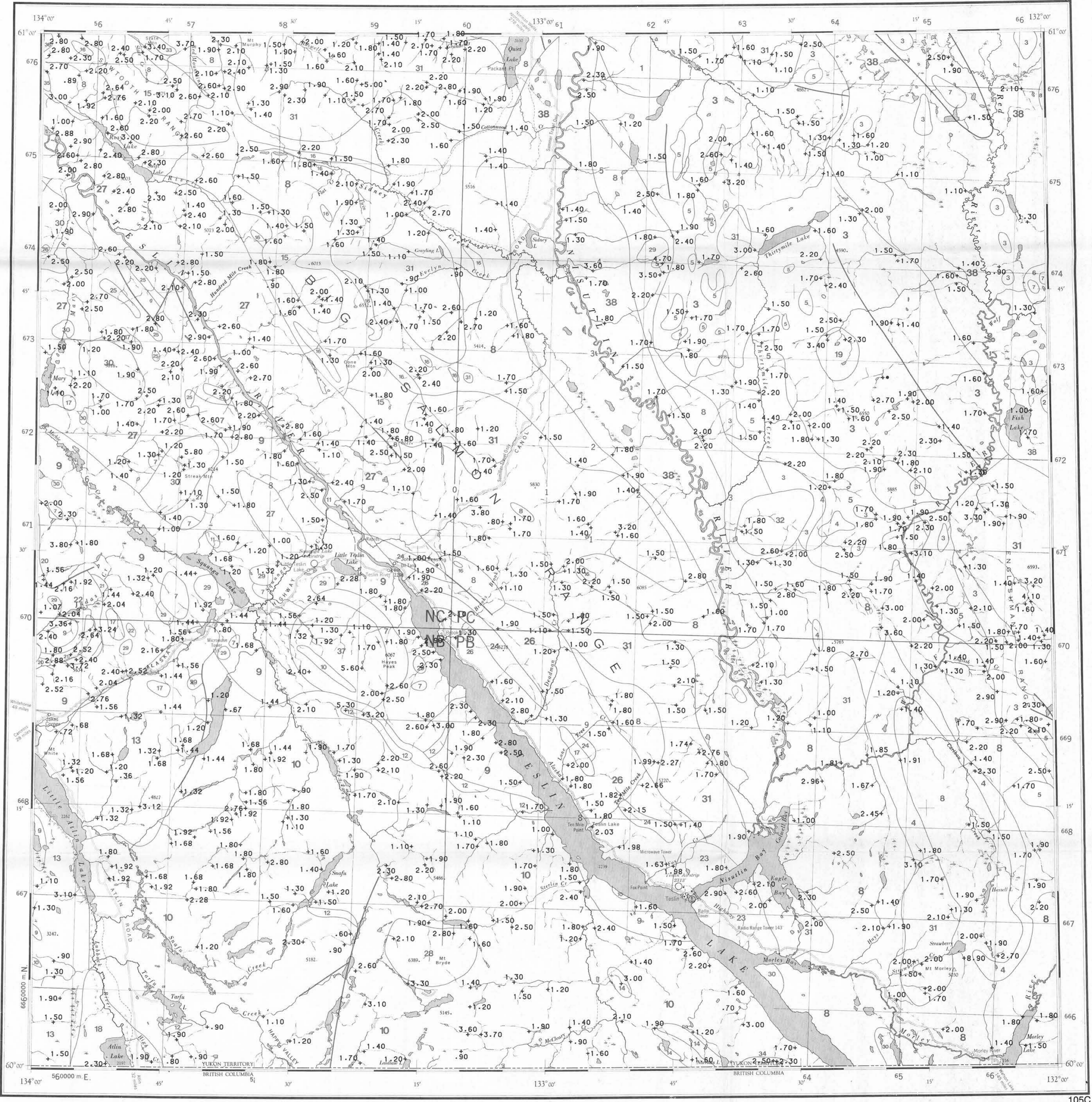
The Director
 Computer Science Centre
 Department of Energy, Mines and Resources
 Ottawa, Ontario
 KIA 0E4



Undivided surficial deposits; includes alluvium, glacial till, ground moraine, outwash and ice contact deposits, colluvium.
 Bedrock exposures; includes discontinuous veneer of undivided glacial drift, local alpine glaciation features.

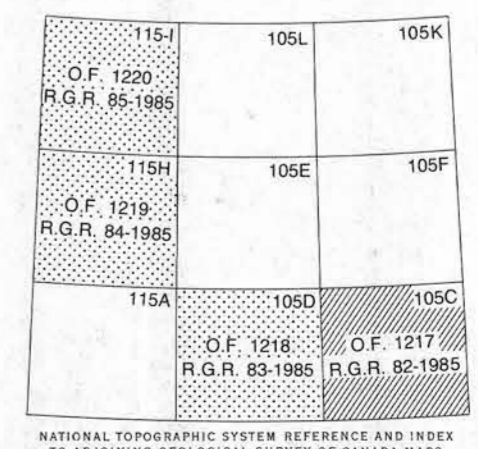
Surficial deposit boundary
 Meltwater channels, outwash deposits, indicating direction of flow
 Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow known, unknown
 Drumlinoid form, direction of movement inferred, not inferred

Sources of information:
 Hughes, O.L., Campbell, R.B., Muller, J.E., and Wheeler, J.O. (1968) Glacial Map of Yukon Territory, Geological Survey of Canada, Map 6-1968, (1:1 000 000 scale) to accompany GSC Paper 68-34.
 Mulligan, R. (1963) Geology TESLIN, Yukon Territory, Geological Survey of Canada, Map 1125A (1:250 400 scale).
 Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale).



IRON (%)
 GSC OPEN FILE 1217
 REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 82-1985
 CANADA-YUKON
 MINERAL DEVELOPMENT AGREEMENT (1984-89)
 STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
 SOUTHERN YUKON TERRITORY, 1985
 Scale 1:250 000
 Universal Transverse Mercator Projection
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Base map at the same scale published by the Surveys and Mapping Branch in 1979. Streams were revised by the Geological Survey of Canada for this edition.



QUATERNARY	38	QS 64*	Glacial and surficial deposits
TERTIARY	37	LTG 62	Rhyolite porphyry, granite, granodiorite
		PV 62	Basalt
		ESL 59	Acid to intermediate tuff, breccia
		ESL 58	Basalt
LATE TERTIARY	35	EMW 59	Acid to intermediate tuff, breccia
		SLOKO GROUP	
PLIOCENE	34	ESL 59	Rhyolite, trachyte
		ESL 58	Basalt
Eocene	33	KTV 56	Andesite and dacite porphyry
CRETACEOUS AND TERTIARY	32	KY 52	Syenite, monzonite
		KQM 52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alkali
		KGD 52	Granodiorite
JURASSIC AND CRETACEOUS	29	JKDI 51	Diorite, hornblende diorite
		JKB 51	Gabbro, diorite, some ultramafic rocks
TRIASSIC AND JURASSIC	27	TJS 46	Argillite, sandstone, siltstone
		TJSV 46	Volcanic and sedimentary rocks
		TJC 46	Limestone
		TJVP 46	Augite, hornblende feldspar porphyry
TRIASSIC	23	TV 42	Basaltic greenstone
UPPER TRIASSIC	22	UTLW 45	Greywacke, argillite, conglomerate
		UTC 45	Limestone
		UTL 45	Andesite, basalt
		MGD 41	Granodiorite, quartz monzonite
		MGDN 41	Foliated hornblende granodiorite, quartz monzonite
MESOZOIC UNDIVIDED	19	MGD 41	Granodiorite, quartz monzonite
		MGDN 41	Foliated hornblende granodiorite, quartz monzonite
PERMIAN AND TRIASSIC	17	PTUB 40	Pyroxenite, serpentinite
PALEOZOIC UNDIVIDED	16	PC 09	Limestone
		PGDN 09	PELLY GNEISS: Foliated to gneissic granodiorite
PERMIAN	14	PT 36	TESLIN: Limestone
CARBONIFEROUS AND PERMIAN	13	CPH 35	HORSEFEED: Limestone
		CPK 35	KEDAHDA: Limestone
PENNSYLVANIAN	11	CPC 35	Limestone
		CPK 35	KEDAHDA: Chert, argillite
MISSISSIPPIAN	9	CPV 35	Andesite, basalt, chert, tuff
		CPSN 35	Schist, gneiss; includes BIG SALMON METAMORPHIC COMPLEX
PENNSYLVANIAN	7	CPUB 35	Serpentinite, diorite, pyroxenite, peridotite
MISSISSIPPIAN	6	PG 33	Limestone
CARBONIFEROUS	5	MC 34	Limestone
ENGLISHMAN'S GROUP	4	CC 30	Limestone
SILURIAN AND DEVONIAN	3	CE 30	Quartzite, phyllite, schist, chert, conglomerate, limestone
		CTP 30	Chert, argillite, phyllite, quartzite
SILURIAN AND DEVONIAN	2	SDQ 24	Dolomite, quartzite, argillite

*A mnemonic code assigned to rock types and recorded as part of field observations

Geological boundary
 Fault
 No analytical result

Geological base and legend are derived from: Map 1398A, MACMILLAN RIVER, YUKON - DISTRICT OF MACKENZIE - ALASKA, NTS SHEET 105, 115. Compiled by H. Gabrielse, D.J. Tompkins-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale