

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
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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 analysis 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:

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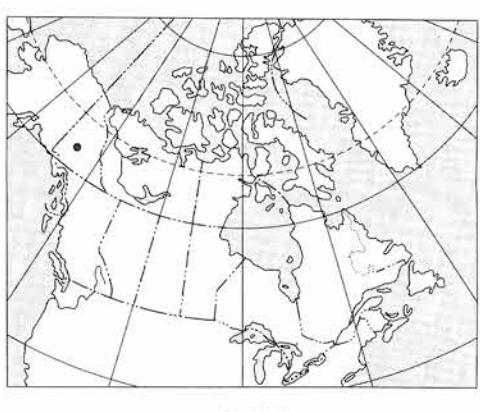
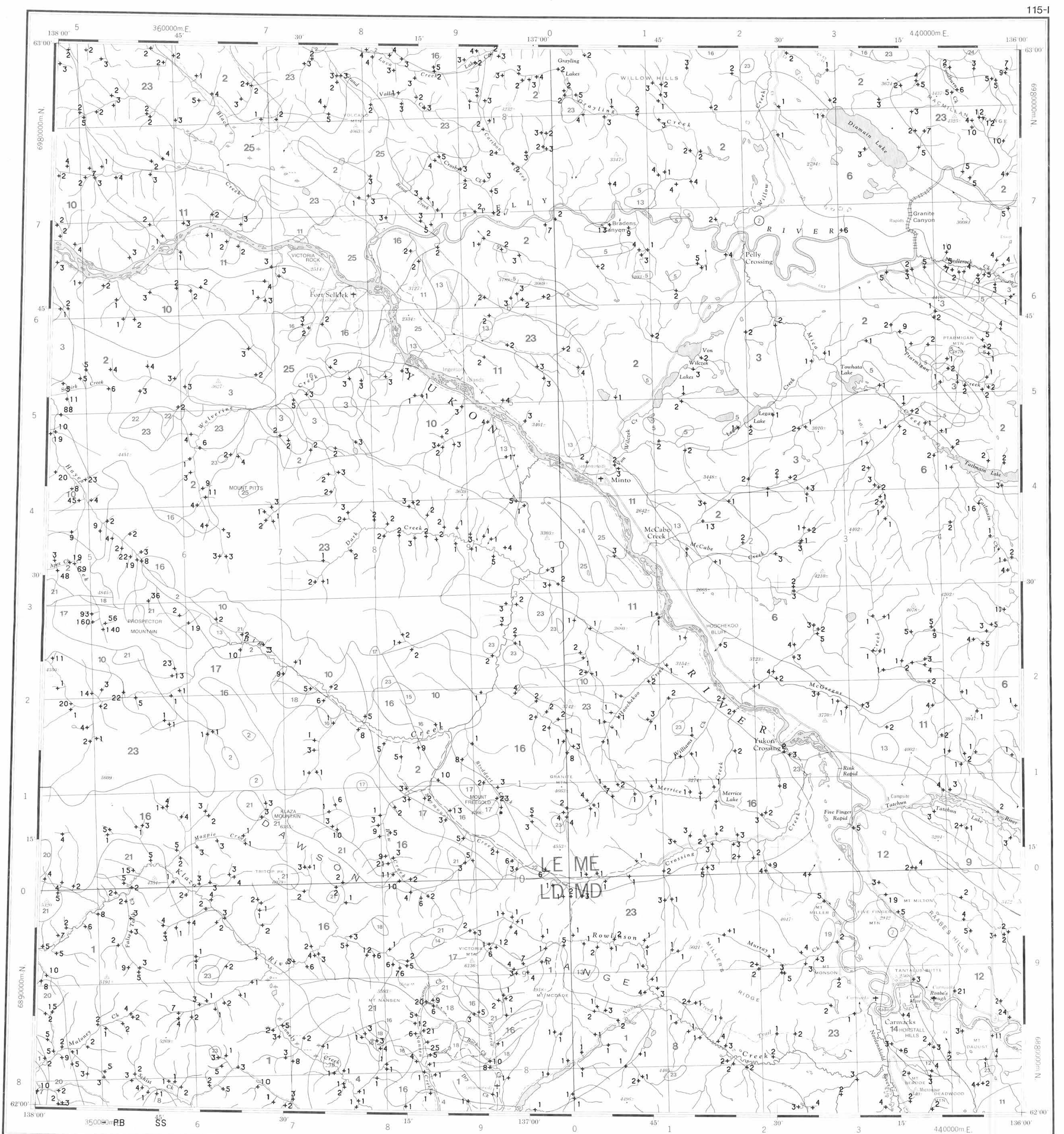
The data are also available in digital form. For further information please contact:

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- Undivided surficial deposits; alluvium, glacial till and moraine, outwash and ice contact deposits, volcanic ash, Toess, colluvium
- Glaciers and permanent snowfields
- Bedrock exposures; includes discontinuous veneer of undivided glacial drift

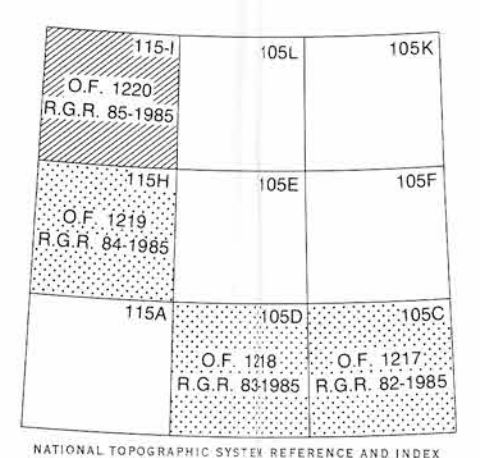
- Surficial deposit boundary
- Limit of Pre-Reid ice advance
- Limit of McConnell (Ruby) ice advance
- Meltwater channels, outwash deposits, indicating direction of flow
- Glacial lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow indicated
- Drumlinoid form, direction of movement inferred, not inferred

Sources of information:
Bostock, H.S. (1936) Geology - CARMACKS SHEET, Yukon Territory, Canada Department of Mines, Bureau of Economic Geology, Geological Survey, Map 340A (1:253,440 scale)
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
Prest, V.K., Grant, D.R., and Rampton, V.N. (1967) Glacial Map of Canada, Geological Survey of Canada (1:5 000 000 scale)



LEAD (ppm)
GSC OPEN FILE 1220
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 85-1985
CANADA-YUKON
MINERAL DEVELOPMENT AGREEMENT (1984-89)
STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
SOUTHERN YUKON TERRITORY, 1985
Scale 1:250 000
Elevation in feet above mean sea level
Mean magnetic declination 1986, 30°25' East, decreasing 13.6' annually. Readings vary from 30°14' E in the SE corner to 30°36' E in the NW corner of the map area

Base map at the same scale published by the Surveys and Mapping Branch in 1974. Streams were revised by the Geological Survey of Canada for this edition.



PERIOD	UNIT	DESCRIPTION
QUATERNARY	RECENT	
	SELKIRK GROUP	
	25 RS 64*	Basalt, andesite flows, breccia, tuff
TERTIARY	LATE TERTIARY	
	24 LTG 62	Rhyolite porphyry, granite, granodiorite
	OLIGOCENE AND MIOCENE	
	CARMACKS GROUP	
	23 OMCV 60	Andesite, basalt, breccia
	OLIGOCENE	
	CARMACKS GROUP	
	22 OCS 60	Conglomerate, sandstone, shale
	EOCENE	
	MOUNT NANSEN GROUP	
21 EMN 59	Acid to intermediate tuff, breccia	
LOWER TERTIARY		
20 TFP 58	Feldspar porphyry dykes, flows	
19 TVB 58	Basalt	
EARLY TERTIARY		
18 ETF 57	Granite and syenite porphyry, rhyolite	
CRETACEOUS	17 KY 52	Syenite, monzonite
	16 KQM 52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
	JURASSIC AND CRETACEOUS	
	DEZADEASH GROUP	
	15 JKD 51	Argillite, greywacke, conglomerate, volcanics
	14 JKT 51	TANTALUS: Conglomerate, siltstone, arkose, coal
	13 JKDI 51	Diorite, hornblende diorite
	JURASSIC	
	LABERGE GROUP	
	12 JL 47	Greywacke, arkose, conglomerate
TRIASSIC		
11 TV 42	Basaltic greenstone	
10 TGDN 42	Foliated hornblende granodiorite, quartz	
UPPER TRIASSIC		
LEWES RIVER GROUP		
9 UTC 45	Limestone	
MESOZOIC UNDIVIDED		
8 MQM 41	Porphyritic quartz monzonite	
7 MGD 41	Granodiorite, quartz monzonite	
6 MGDN 41	Foliated hornblende granodiorite, quartz monzonite	
PALEOZOIC UNDIVIDED		
5 PC 09	Limestone	
4 PM 09	Amphibolite, schist, gneiss	
3 PGDN 09	PELLY GNEISS: Foliated to gneissic granodiorite	
CARBONIFEROUS AND PERMIAN		
2 CPSN 35	Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX	
HADRYNIAN AND CAMBRIAN		
1 HCSN 08	Schist, gneiss, quartzite	

*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. Tempelman-Kluit, S.L. Blusson and R.B. Campbell, Geological Survey of Canada, Energy, Mines and Resources Canada, 1980. 1:1 000 000 scale