

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

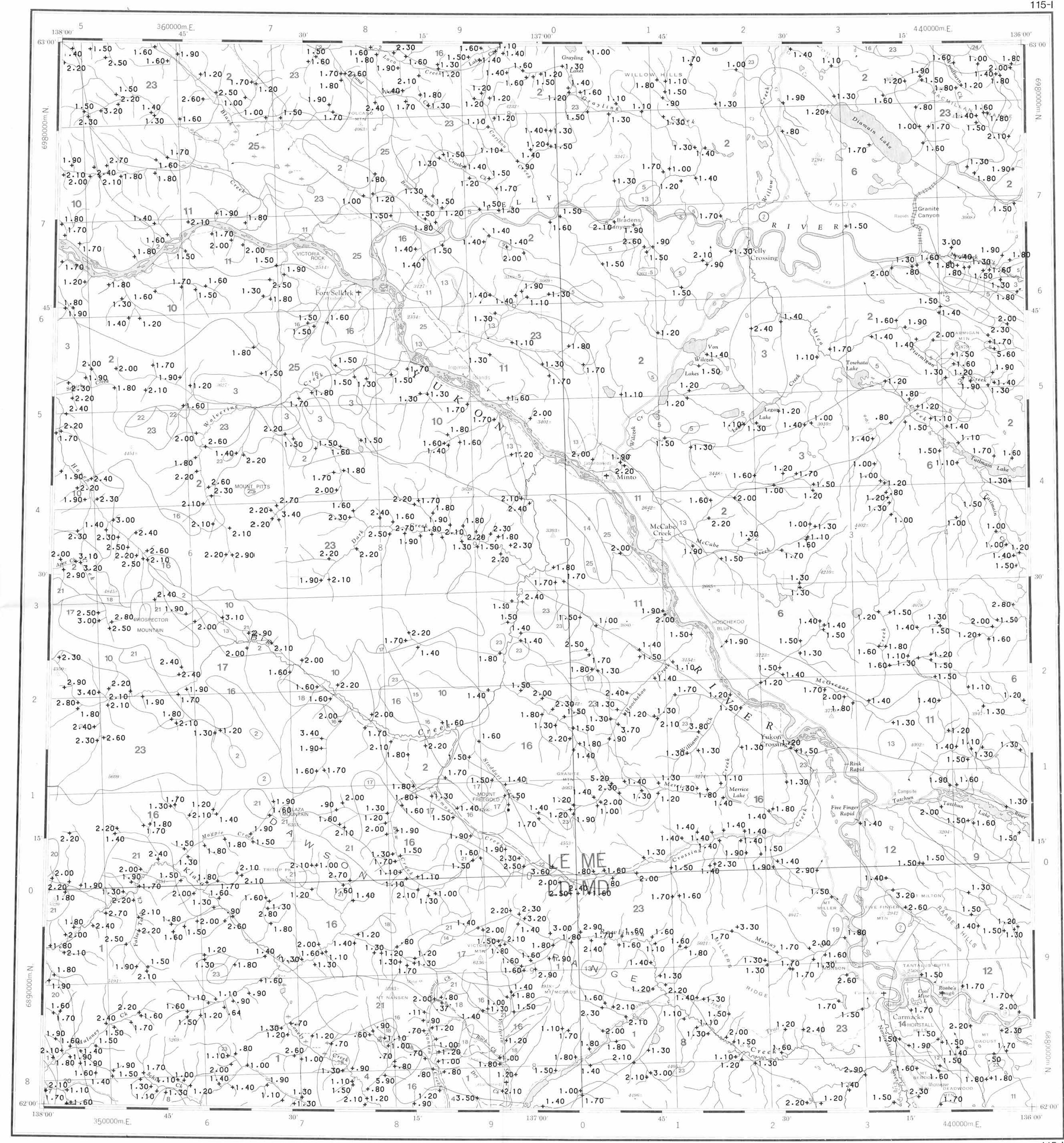
- SYMBOLS**
- Surficial deposit boundary
 - Limit of Pre-Reid ice advance
 - Limit of McConnell (Ruby) ice advance
 - Meltwater channels, outwash deposits, indicating direction of flow
 - Glaciation lineation parallel to ice flow direction, includes fluting, crag and tail, roches moutonnées and drumlinoid forms, direction of flow 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 (1:25,000 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)



LEGEND

QUATERNARY	RECENT
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	TPF 58 Feldspar porphyry dykes, flows
19	TVB 58 Basalt
EARLY TERTIARY	ETF 57 Granite and syenite porphyry, rhyolite
CRETACEOUS	KY 52 Syenite, monzonite
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	TV 42 Basaltic greenstone
11	TV 42 Basaltic greenstone
10	TGDN 42 Foliated hornblende granodiorite, quartz
UPPER TRIASSIC	LEWIS RIVER GROUP
9	UTC 45 Limestone
MESOZOIC UNDIVIDED	MQM 41 Porphyritic quartz monzonite
8	MQM 41 Porphyritic quartz monzonite
7	MGD 41 Granodiorite, quartz monzonite
6	MGN 41 Foliated hornblende granodiorite, quartz monzonite
PALEOZOIC UNDIVIDED	PC 09 Limestone
5	PC 09 Limestone
4	PM 09 Amphibolite, schist, gneiss
3	PGDN 09 PELLY GNEISS: Foliated to gneissic granodiorite
PALEOZOIC	CARBONIFEROUS AND PERMIAN
2	CPSN 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
HADRYNIAN AND CAMBRIAN	HCSN 08 Schist, gneiss, quartzite
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 115, 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