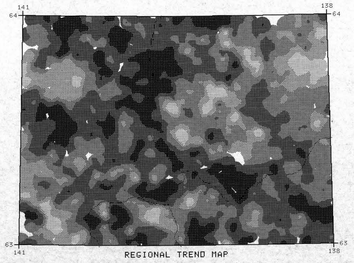

The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function ($1/d^3$) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.

SURFICIAL GEOLOGY

No comprehensive surficial or geomorphological data exists for the map area up to the release of this geochemical open file. A detailed geomorphology and surficial materials map, compiled by G.W. Morrison of Indian Affairs and Northern Development, Whitehorse, is forthcoming.

Geological Survey of Canada
Mineral Resources Division
Exploration Geochemistry Subdivision

CONTRACTORS

Sample collection by Monaghan Delph Miller Limited, Don Mills, Ontario
Sample preparation by Golder Associates, Ottawa

Sediment chemical analyses by Bondar Clegg and Company Ltd., Ottawa, Ontario

Au analyses by Chemex Labs Limited, Vancouver
Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

Canada

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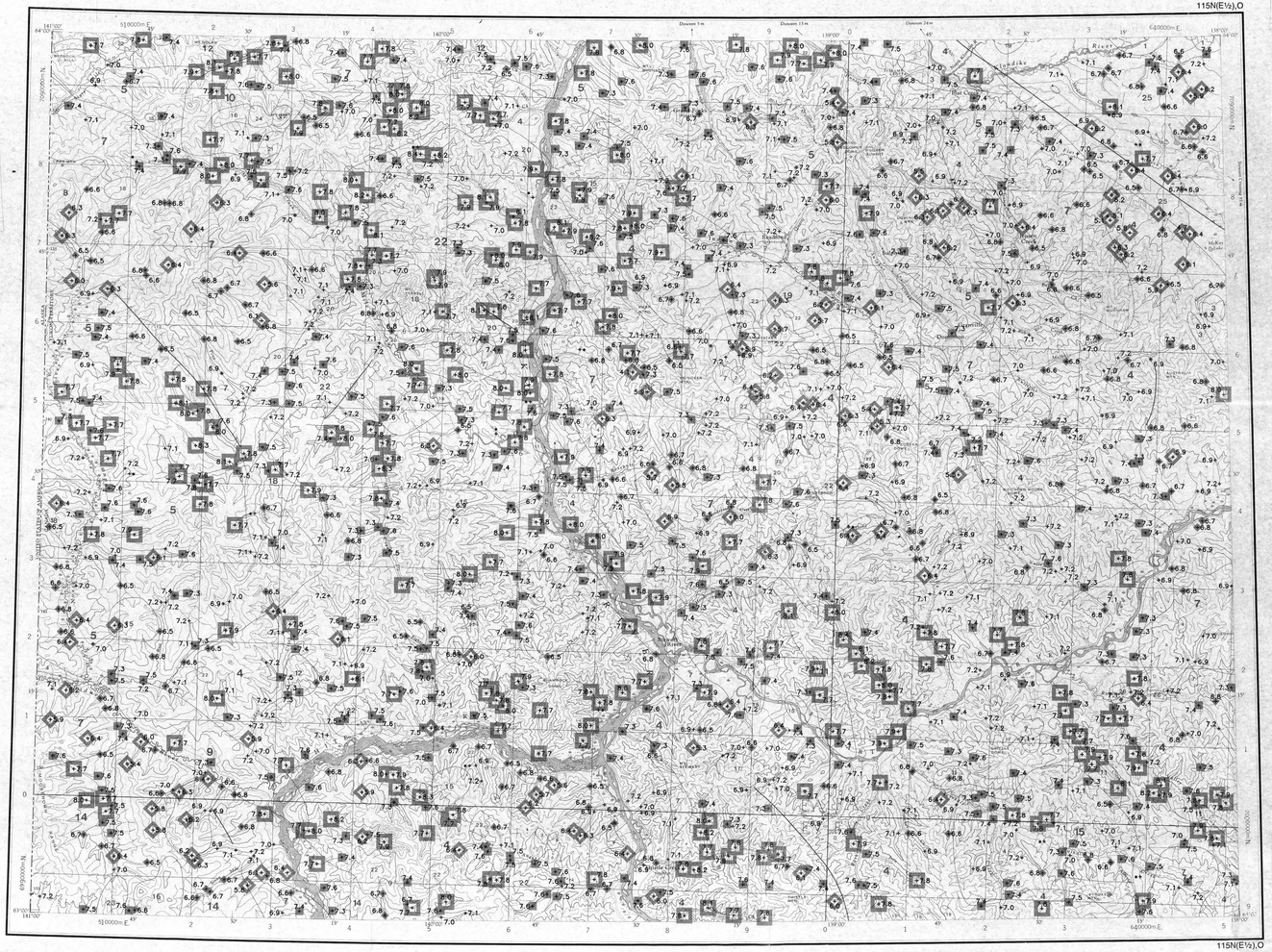
Contribution to the Canada/Yukon Subsidiary Agreement on Mineral Resources 1985-1989 under the Canada/Yukon Economic Development Agreement

Yukon Government

GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE DES MINES ET DES RESSOURCES

115N(E½),O



115N(E½),O

CONCENTRATION	FREQUENCY
7.7 to 8.4	N= 286(20.8%)
7.3 to 7.6	N= 393(28.5%)
6.9 to 7.2	N= 370(26.9%)
6.5 to 6.8	N= 213(15.5%)
4.1 to 6.4	N= 116(8.4%)

INDEX MAP

Copies of map material and listings of field observations, analytical data and methods, from which the open file was prepared, are available from:

K.G. Campbell Corporation
880 Wellington St.
Bay 230
Ottawa, Ontario
K1R 6K7

Digital data are available on IBM-PC compatible diskette from:

Geological Survey of Canada
Publications Distribution
601 Booth St.
Ottawa, Ontario K1A 0E8
Tel.: (613)995-4342

pH
STREAM WATERS
GSC OPEN FILE 1364
REGIONAL GEOCHEMICAL RECONNAISSANCE MAP 100-1986

CANADA - YUKON
SUBSIDIARY AGREEMENT ON MINERAL RESOURCES (1985-1989)

STREAM SEDIMENT AND WATER GEOCHEMICAL SURVEY
WESTERN YUKON, 1986

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

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Elevation in feet above mean sea level

Base map at the same scale published by the Surveys and Mapping Branch in 1963

Mean magnetic declination 1987, 30°25' East, decreasing 13.5' annually. Readings vary from 30°25'E in the SE corner to 30°20'E in the NW corner of the map area

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJACENT GEOLOGICAL SURVEY OF CANADA MAPS

pH
STREAM WATERS
GSC OPEN FILE 1364
WESTERN YUKON, 1986

LEGEND

QUATERNARY

RECENT

SELKIRK GROUP

26	RS 64*	Basalt, andesite flows, breccia, tuff

PLEISTOCENE AND RECENT

25	QS 64	Glacial and surficial deposits

TERTIARY

24	TDI 57	Diorite

OLIGOCENE AND MIOCENE

23	OMA 61	AMPHITHEATRE: Sandstone, conglomerate, shale, coal

CARMACKS GROUP

22	OMCV 61	Andesite, basalt, breccia
21	OMD 61	DONJEK: Tuff, breccia

OLIGOCENE

CARMACKS GROUP

20	OCS 60	Conglomerate, sandstone, shale

LOWER TERTIARY

19	TTS 58	Conglomerate, sandstone, shale
18	TVR 58	Rhyolite, quartz feldspar porphyry

EARLY TERTIARY

	ETF 57	Granite and syenite porphyry, rhyolite

CRETACEOUS

16	KY 52	Syenite, monzonite
15	KQM 52	Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite

TRIASSIC

14	TGDN 42	Foliated hornblende granodiorite, quartz

PALEOZOIC AND MESOZOIC UNDIVIDED

13	PMUB 40	Ultramafic rocks

PALEOZOIC UNDIVIDED

12	PN 09	NASINA: Graphitic quartzite, schist
	PC 09	Limestone
10	PTV 09	Chert, volcanic rocks, slate
9	PV 09	Greenstone, amphibolite
8	PQMM 09	Foliated muscovite quartz monzonite
7	PGDN 09	PELLY GNEISS: Foliated to gneissic granodiorite

PERMIAN

SKOLAI GROUP

6	PS 36	Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate

CARBONIFEROUS AND PERMIAN

5	CPS 35	Quartz - muscovite schist
4	CPSM 35	Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
3	CPUB 35	Serpentinite, diorite, pyroxenite, peridotite

DEVONIAN

2	DC 25	Limestone, marble

ORDOVICIAN, SILURIAN AND LOWER DEVONIAN

1	OSDR 19	ROAD RIVER: Black graptolitic shale, chert

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

Geological boundary
Fault
No analytical result
Field duplicate sample sites

Geological 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 Sheet 105, 115, Geological Survey of Canada, Energy, Mines and Resources Canada. 1:1 000 000 Scale.

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