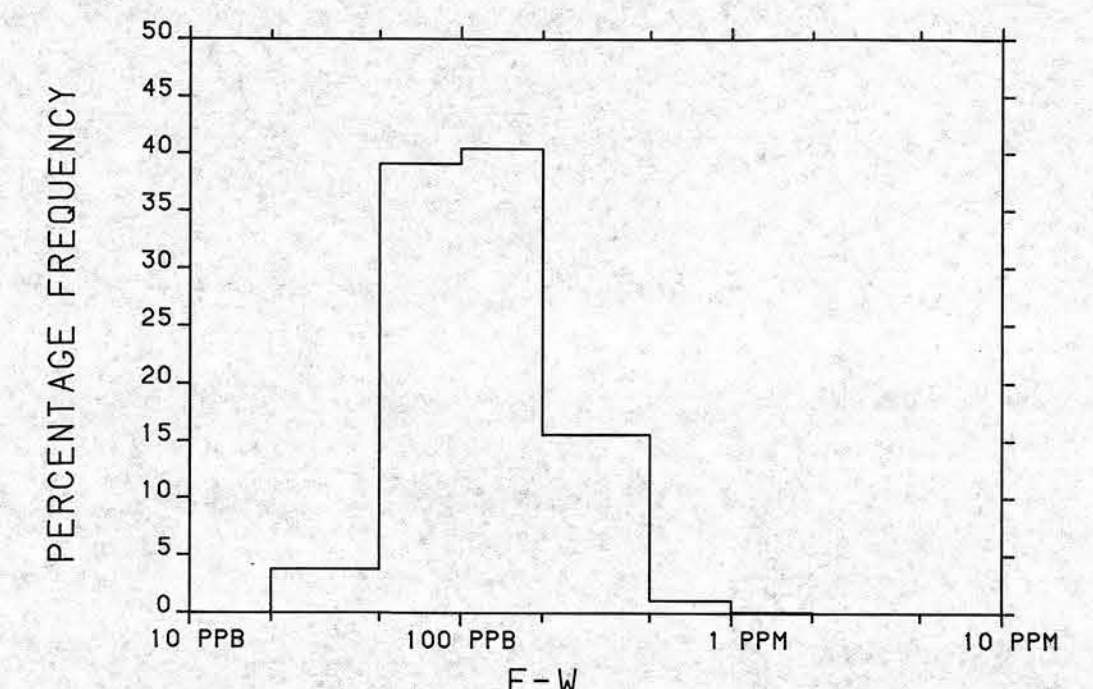
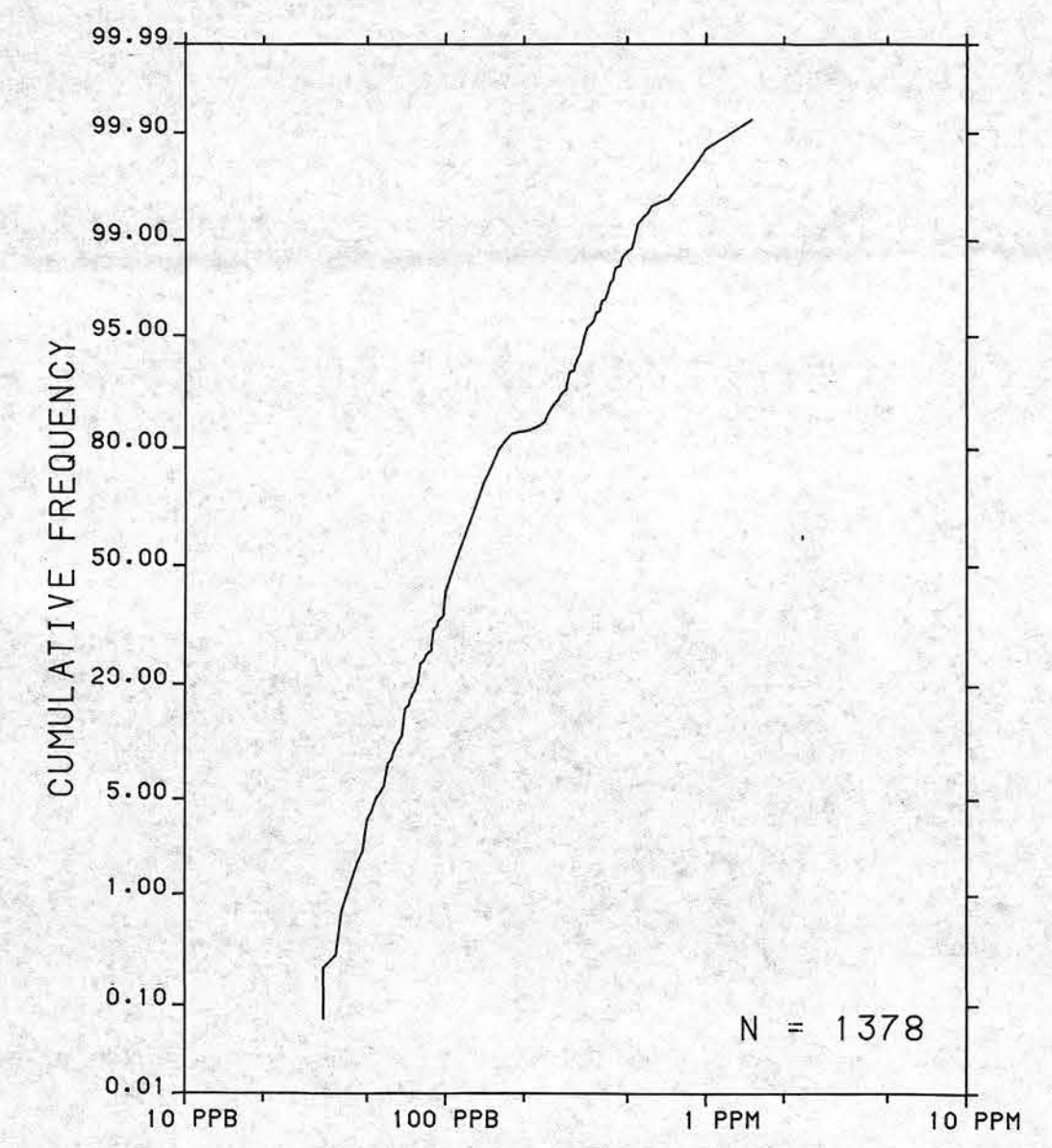
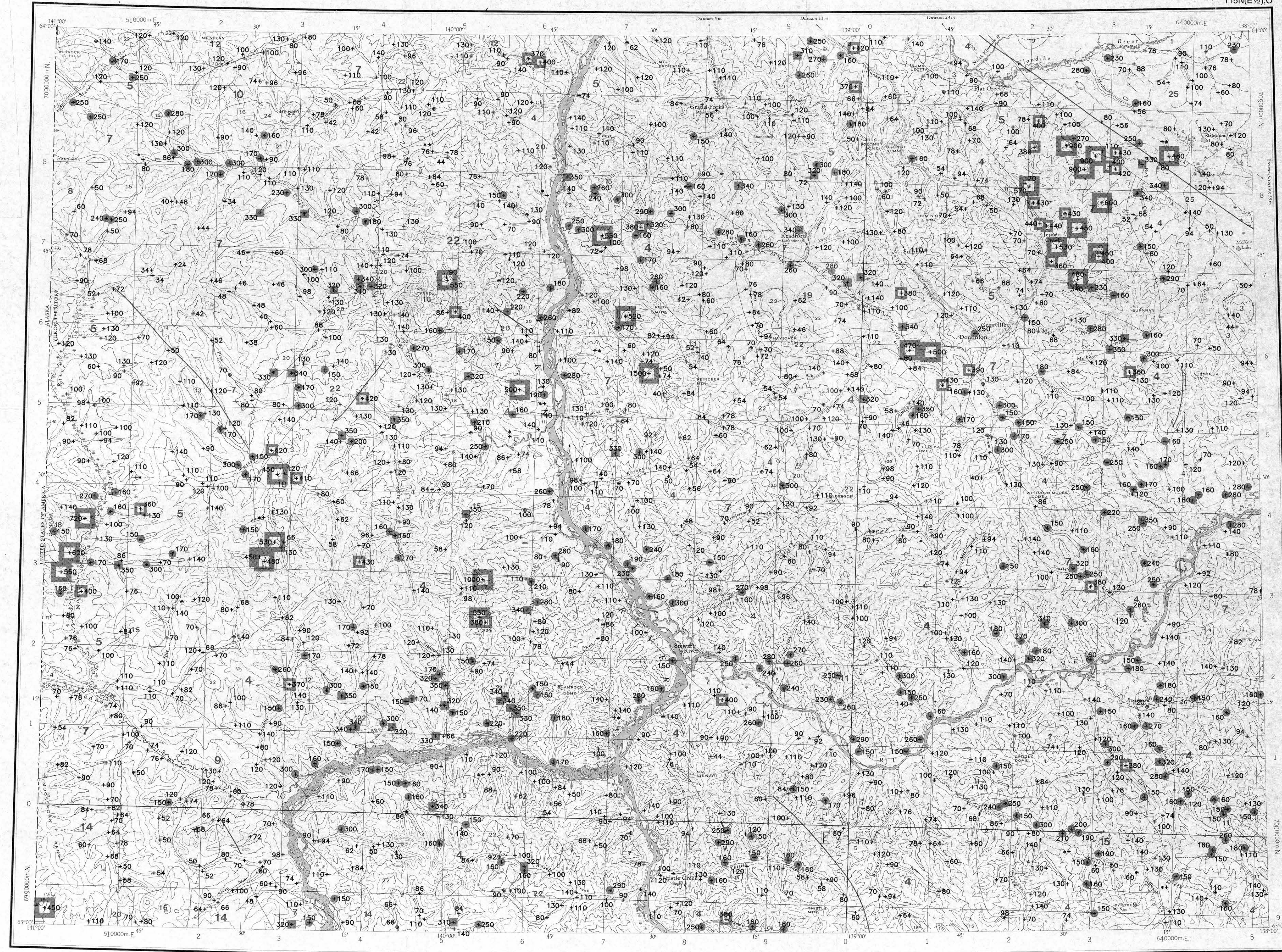


The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/d³) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched, or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.



| CONCENTRATION | FREQUENCY |
|---------------|-----------------|
| 441 to 1500 | N = 27 (2.0%) |
| 351 to 440 | N = 33 (2.4%) |
| 301 to 350 | N = 54 (3.9%) |
| 141 to 300 | N = 265 (19.2%) |
| 24 to 140 | N = 999 (72.5%) |



- LEGEND
- QUATERNARY
- RECENT
 - SELKIRK GROUP
 - RS 64* Basalt, andesite flows, breccia, tuff
 - PLEISTOCENE AND RECENT
 - QS 64 Glacial and surficial deposits
 - TERTIARY
 - TDI 57 Diorite
 - OLIGOCENE AND MIOCENE
 - OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
 - CARMACKS GROUP
 - OMCV 61 Andesite, basalt, breccia
 - OMD 61 DONJEU: Tuff, breccia
 - OLIGOCENE
 - CARMACKS GROUP
 - OCS 60 Conglomerate, sandstone, shale
 - LOWER TERTIARY
 - ITS 58 Conglomerate, sandstone, shale
 - TVR 58 Rhyolite, quartz feldspar porphyry
 - EARLY TERTIARY
 - ETF 57 Granite and syenite porphyry, rhyolite
 - CRETACEOUS
 - KY 52 Syenite, monzonite
 - KM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite
 - TRIASSIC
 - TGDN 42 Foliated hornblende granodiorite, quartz
 - PALEOZOIC AND MESOZOIC UNDIVIDED
 - PMUB 40 Ultramafic rocks
 - PALEOZOIC UNDIVIDED
 - PM 09 WASINA: Graphitic quartzite, schist
 - PC 09 Limestone
 - PTV 09 Chert, volcanic rocks, slate
 - PV 09 Greenstone, amphibolite
 - POMN 09 Foliated muscovite quartz monzonite
 - PGDN 09 PELLY GNEISS: Foliated to gneissic granodiorite
 - PERMIAN
 - SKOLAI GROUP
 - PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate
 - CARBONIFEROUS AND PERMIAN
 - CPS 35 Quartz - muscovite schist
 - CPSN 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX
 - CPUB 35 Serpentinite, diorite, pyroxenite, peridotite
 - DEVONIAN
 - DC 25 Limestone, marble
 - ORDOVICIAN, SILURIAN AND LOWER DEVONIAN
 - 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 1364, 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.

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.

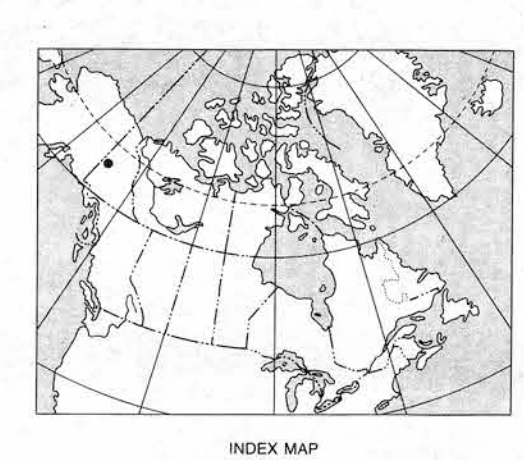
Geological Survey of Canada
 Mineral Resources Division
 Exploration Geochemistry Subdivision

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

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



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 238
 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

FLUORIDE (ppb)
 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 - Echelle 1/250 000

Kilometers 5 10 15 20 Kilometres

Projection Transverse Mercator Projection
 © Crown Copyrights reserved

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

