



ALLUVIUM-FAN COMPLEX: sand, gravel, silt, and muck and peat

DRIFT BENCHES: glacial drift and older

ndetermined origin (may be constructional

deposits; discontinuous benches of

glacial or erosional "Older")

QUATERNARY POST-FRASER GLACIATION NON-GLACIAL MODERN ALLUVIUM: sand, gravel, silt, and minor muck and peat; at/or near present base-level (floodplain, channel, delta, and shoreline deposits)

FAN DEPOSITS: poorly sorted gravel, sand, silt, and clay

marl, and peat

FRASER GLACIATION

LANDSLIDE DEPOSITS: blocks and rubble, mainly bedrock

BOG DEPOSITS: muck, mucky peat,

KAMLOOPS DRIFT LACUSTRINE ENVIRONMENT LACUSTRINE DEPOSITS UNDIFFERENTIATED:

silt, clay, and sand LACUSTRINE DEPOSITS: silt with Lt Lv minor clay and sand; Lt, deposits thick enough to mask underlying

topography (generally more than 10 feet

COLLAPSED LACUSTRINE DEPOSITS:

TERRACE DEPOSITS: gravel, sandy

thick); Lv, thin veneer not masking

underlying topography (generally less than 10 feet thick) LACUSTRINE COMPLEX: silt, sand, Lx and gravel; complex of deep water and shoreline deposits and features

silt, sand, clay, and minor gravel; ridged and kettled deposits disrupted by melting of underlying ice FLUVIAL ENVIRONMENT

> gravel, and sand; Ts, stream terrace; Td, delta terrace KETTLE TERRACE DEPOSITS; gravel sandy gravel, and sand; terrace form broken by kettle holes; includes kettled stream terrace; kame terrace; and

kettled delta terrace RILL COMPLEX: lag gravels, channelbottom gravels, areas of unmodified till, small areas of hummocky gravel, and local pockets of backwater silt (in general morainal deposits washed and channelled

HUMMOCKY GRAVELS; poorly sorted gravel and sand characterized by irregular nummocks and kettles; includes kames and eskers

by meltwater)

GLACIAL ENVIRONMENT MORAINAL DEPOSITS: till with minor sand, gravel, and silt; M, undifferentiated; Mr, ridged (characterized by sharp ridges and kettles); Md, drumlinoid (characterized by streamlined forms)

PRE-FRASER GLACIATION GLACIAL AND NON-GLACIAL "OLDER" UNCONSOLIDATED SEDIMENTS: sand, silt, gravel, and till deposited prior to the last ice advance (generally overlain by Fraser and younger deposits); shown only where deposits contribute to the present

geomorphology

UNDIVIDED DEPOSITS: (forested areas mapped largely by airphoto interpretation); U, mainly undifferentiated morainal deposits but may contain small areas of younger deposits; Ur, mainly glacial, fluvial, and lacustrine environment deposits with ridged or kettled topographic expression

R Rock outcrop and areas of near-surface rock . . Geological boundary (defined, approximate, assumed) Glacial striae Trend of drumlinoid or streamlined feature (direction of ice movement known, unknown) . . Landslide escarpment . . Esker (direction of stream flow known, unknown). Till ridge ... THE TOTAL Meltwater channel (minor, major) . . Raised shoreline features . . Gravel pit (in Fraser and younger deposits,

GEOMORPHIC LEGEND

in Pre-Fraser deposits)

	TOPOGRAPHIC EXPRESSION			
MAP UNIT	SURFACE EXPRESSION	LOCAL RELIEF IN FEET	TOPOGRAPHIC SITUATION	MATERIAL
Α	Flat Channels Low escarpments	10	Valley bottom Lake shore	Clay to grave
F	Smoothly sloping fan Small channels Low escarpments	10	Valley side Changes in stream gradient Stream junction	Clay to grave
В	Round or elongate form Flat	10	Closed depressions Seepage areas	Organic Clay Silt
S	Hummocks and ridges Closed depressions Lobate or fan form	50	High relief areas of Tertiary bedrock	Landslide debris
L	Flat to gently rolling (depending on thickness and underlying topography)	10	Valleys	Clay to fine sand
Lc	Gently to sharply rolling	25	Valleys Valley sides	Clay to sand
Т	Flat with escarpments between terrace levels	10	Valley sides and bottoms	Sand and gravel
Tk	Flat to rolling Closed depressions Local escarpments	100+	Valley sides and bottoms	Sand and gravel
W	Small hummocks Channels	50	Valley slopes	Silt to gravel Till
Н	Hummocks and ridges Closed depressions	100	Valley bottom and sides	Sand and gravel
М	Gently rolling Closed depressions	25	Valley sides Areas of low to moderate relief	Till
Mr	Hummocks and ridges Closed depressions	25	Valley sides Areas of low to moderate relief	Till
Md	Streamlined ridges and grooves Closed depressions	100+	Areas of low to moderate relief	Till
XX	Flat to rolling (depending	10-100+	Valley bottom fills Valley side benches	Clay to grave

...×⊗

ENVIRONMENT	FACIES				
ENVINONMENT	Water	Water > ice	Ice > water	Ice	
Lacustrine	Lt Lv		Lx		
Fluvial	Ts Td	Tk W	Н		
Glacial			-	M Mr Md	

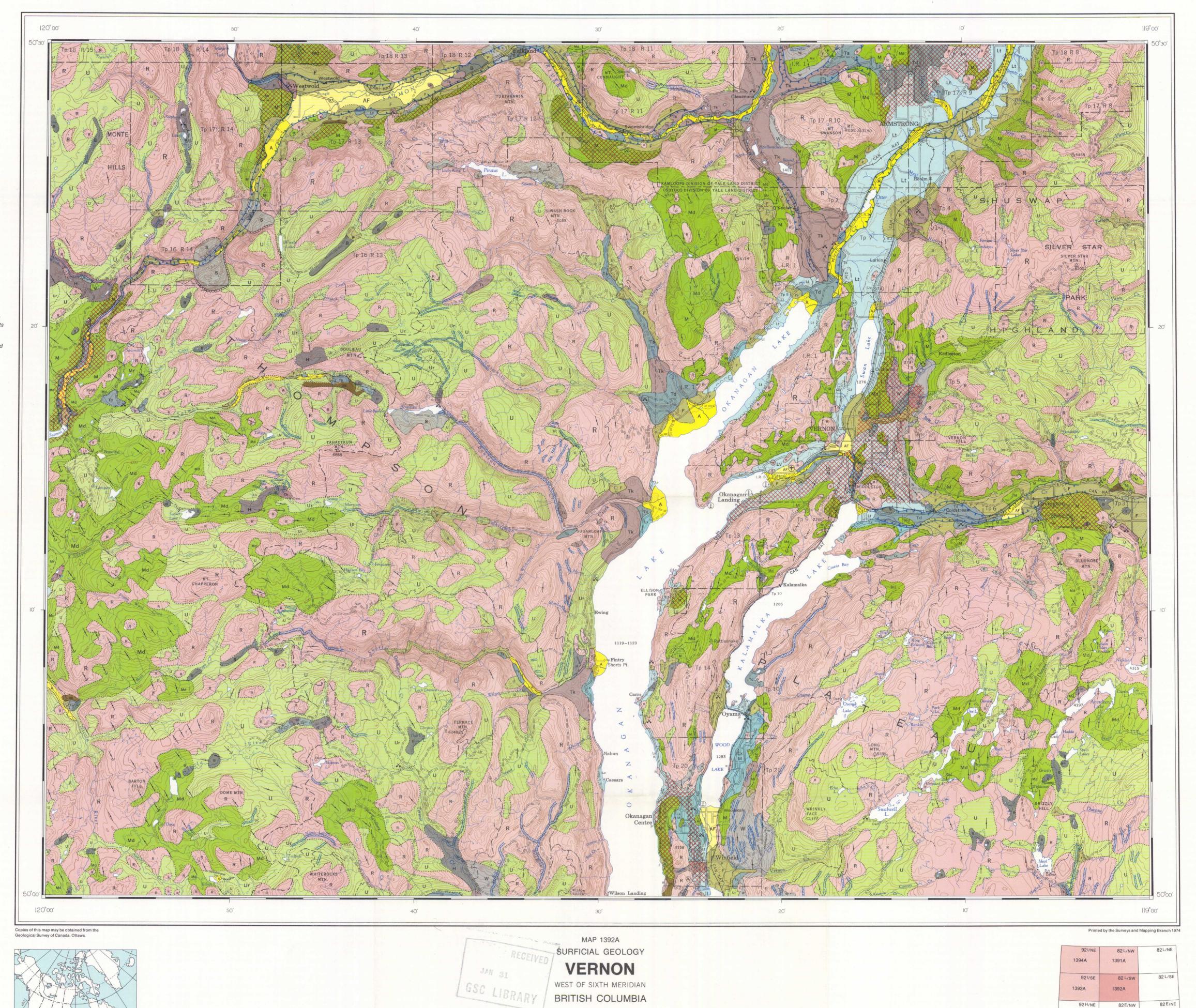
Water facies-Water is the depositing agent; forms are those of fluvial and lacustrine deposits
Water > ice facies- Water is the depositing agent; form of deposits is somewhat modified
by presence of glacial ice
Ice > Water facies - Water is the main depositing agent; depositional forms are completely
modified or entirely controlled by presence of glacial ice
Ice facies- Ice is the main depositing agent; forms are those of ice deposited materials

Geological observations by R.J. Fulton, 1963-65, A.A. Berti, 1964 and G.W. Smith, 1965 To accompany Memoir 380 by R.J. Fulton

Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user

would be welcomed by the Geological Survey of Canada Base-map produced by the Geographic Division, Surveys and Mapping Branch, Department of Lands, Forests, and Water Resources Victoria, B.C. 1958-59 Approximate magnetic declination 1974, 22°43' East decreasing 2.8' annually



Scale 1:126,720

1 inch to 2 miles

Universal Transverse Mercator Projection

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

MAP 1392A

VERNON

BRITISH COLUMBIA

1392A

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