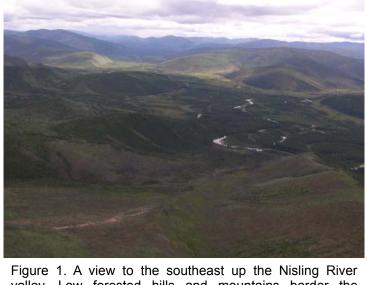
# MARGINAL NOTES

PHYSIOGRAPHY AND DRAINAGE The Klaza River map area encompasses the confluence of the Klaza and Nisling rivers near the southeastern end of the Dawson Range (Fig. 1). The landscape consists of unglaciated low-dissected mountains with summits below 1372 m elevation. The elevation of the Nisling and Klaza river floodplains are at approximately 762 m. SURFICIAL GEOLOGY

The unglaciated surficial deposits consist of weathered bedrock colluvium, fluvial deposits, aeolian deposits, and organic material. At the highest elevations, on summits and ridge tops, the surficial deposits consist of locally weathered bedrock that has undergone minimal gravitational transport. Eroded bedrock landforms, such as tors, are not as common as in other areas of the Dawson Range, likely due to the bedrock geology. Slope deposits consist of colluviated weathered bedrock veneers and blankets that have textural properties reflecting the local bedrock lithologies. Aeolian additions into the soil profiles may be significant, especially near the Nisling River valley where dune sand deposits were mapped (Fig. 2). Along the Klaza River, silty loess deposits are more common. Colluviation of the aeolian deposits has resulted in thick accumulations of poorly drained sediment in the valley bottoms. Thick accumulations of resedimented White River volcanic ash (tephra) were also noted in the map area (Fig. 3). According to Clague et al. (1995) the eruption occurred 1140 years B.P. The thickness and coarseness (fine to medium sand texture) of tephra in this area is attributed to the map areas location under the main trajectory of the ash plume. The bearing of the ash plume axis is approximately 65° according to the location of similar deposits to the southwest at Grace Lake, Toshingermann Lake, and Klutlan glacier. Bedrock outcrop in the map area is most common on ridge tops and near the Klaza River where it has truncated ridges on the north side of the valley (Fig. 4). Evidence of glaciation in the map area is limited to glaciofluvial deposits in the Nisling River valley near its confluence with the Klaza River. These deposits originate from meltwater draining off the Cordilleran ice sheet margin in the Aishihik Lake area and Tyrell Creek to the southeast.

PERMAFROST Evidence of permafrost was found at all elevations in the map area. Thermokarst lakes are particularly common, likely due to the abundance of loess that has accumulated in the valleys. Inactive areas of the Nisling River floodplain are also underlain by permafrost. This is particularly obvious by the lack of tree growth on large areas on large of the floodplain. Pingos were noted in the northwest corner of the map area.

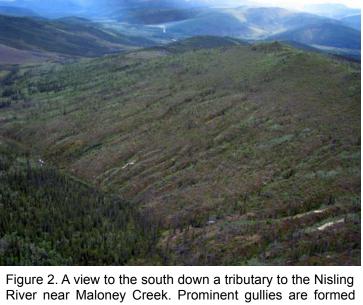
DATA SOURCES This surficial geology map was interpreted from high resolution digital stereo imagery (2.5 m panchromatic CartoSat-1 satellite data captured in 2007) and hard copy 1:40 000 scale aerial photographs flown in 1987 and 1989. Selective field checking was performed in June 2007 and July 2008.



valley. Low forested hills and mountains border the meandering Nisling River in this area. Significant aeolian sediments (silt and sand) were generated off the Nisling River floodplain during glacial periods and blown into the surrounding hills.



into a tributary fluvial fan. Thick accumulations of White River ash overlie overbank silt and organic deposits. These thick ash layers are the result of resedimentation and location of the area within the primary fallout zone of the eruption.



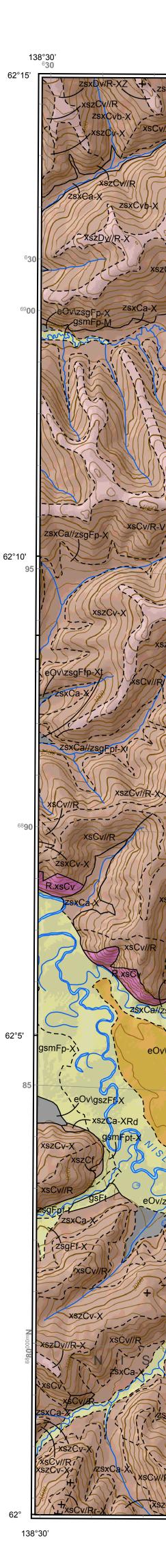
on slopes blanketed by aeolian sand. The sand originated off the Nisling River floodplain during glacial periods.

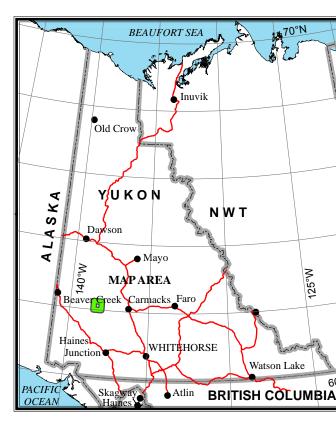


Figure 4. A view to the north of the Klaza River floodplain. Bedrock outcrops (see highlighted area) are common on the north side of the valley where the river has truncated bedrock ridges.

## SELECTED REFERENCES

Clague, J.J., Evans, S.G., Rampton, V.N., and Woodsworth, G.J., 1995. Improved age estimates for the White River and Bridge River tephras, western Canada. Canadian Journal of Earth Sciences vol. 32: p. 1172–1179. Gordey, S.P. and Makepeace, A.J. (compilers), 2003. Yukon digital geology, version 2.0. Geological Survey of Canada Open File 1749, and Yukon Geological Survey Open File 2003-9(D), 2 CD-ROMS. Howes, D.E. and Kenk, E., 1997. Terrain classification system for British Columbia, Version 2. B.C. Ministry of Environment and B.C. Ministry of Crown Lands, Victoria, B.C.







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FIVE THOUSAND METRE GRID

CONTOUR INTERVAL 100 FEET

Zone 7

Elevations in feet above Mean Sea Level

Universal Transverse Mercator Projection North American Datum 1983

138°20'

SCALE 1:50 000 kilometres

SURFICIAL GEOLOGY **KLAZA RIVER** YUKON 115J/01

138°15'

138°10'

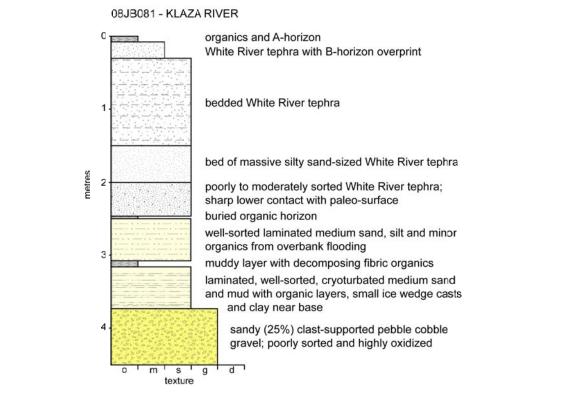
zsxCa//zsgFp-X

08PL053 - KLAZA RIVER CUTBANK LF layer fine-grained (silty) White River tephra pocket slopewash; fine sandy silt; cryoturbated, oxidized sand lenses 3-8 cm thick buried peat with abundant twigs up to 2 cm in diameter buried wood and twigs with oxidized, mottled fine sand lenses up to 13 cm thick buried peat slopewash with buried trees up to 20 cm in diameter oxidized coarse sand and cobble gravel; matrix supported

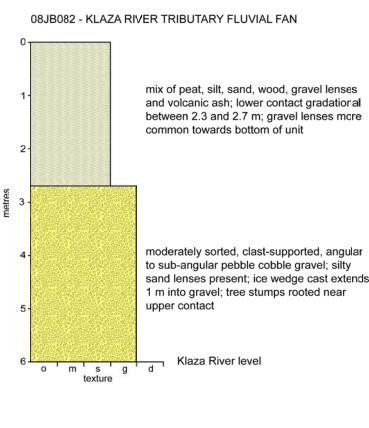
138°25'

6**35**000mE

138°20'



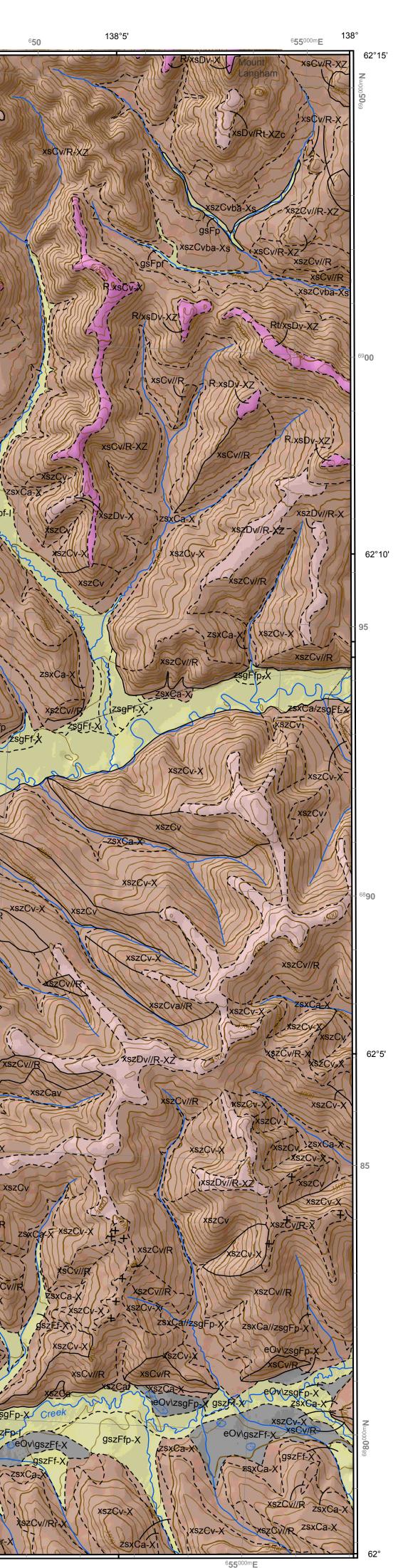
138°15'



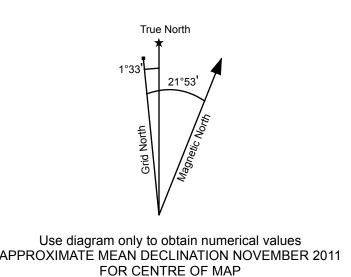
138°10'

#### mix of peat, silt, sand, wood, gravel lenses and volcanic ash; lower contact gradational between 2.3 and 2.7 m; gravel lenses more

#### to sub-angular pebble cobble gravel; silty sand lenses present; ice wedge cast extends 1 m into gravel; tree stumps rooted near



138°5'



115J/07	115J/08	115I/05 PROSPECTOR MOUNTAIN GSC map 1876A	
MOUNT PATTISON open file 2013-11	APEX MOUNTAIN open file 2013-12		
115J/02	115J/01	115I/04 FALSE TEETH CREEK GSC map 1876A	
ONION CREEK open file 2013-8	KLAZA RIVER open file 2013-7		
	MAP LOCATION		
115G/15	115G/16	115H/13	
KIYERA LAKE open file 2009-46	RHYOLITE CREEK open file 2009-47	SCHIST CREEK GSC map 22-1987	

### **TERRAIN CLASSIFICATION SYSTEM** This surficial geology map was classified using the Terrain Classification System for British Columbia (How

minor modification to meet standards set by the Yukon Geological Survey. For example, we have added s subclasses to accomodate the wider variety of permafrost features found in Yukon. We have also addec distinguish materials deposited during different Pleistocene glaciations. A sample map unit label is shown below to illustrate the terrain classification system. Surficial materials form the core of the polygon map unit labels and are symbolized with a single upper case letter. Lower case textures are written to the left of the surficial material, and lower case surface expressions are written to the right. An upper case activity qualifier (A = active; I = inactive) may be shown immediately following the surficial material designator. The glacial qualifier "G" may alternatively be written immediately following the surficial material to indicate glacially modified materials. Age is indicated by a capital letter that follows the surface expression but precedes the process modifiers. Geomorphological processes (capital letters) and subclasses (lower case letters) always follow a

sgFGptM-Xs <sup>*</sup> ↑ ↑ ↑ ↑ ↑	GEOMORPHOLOGICAL PROCESS(ES) (-X = permafrost) SUBCLASS(ES) (s = sheetflow) - AGE (M = McConnell)
	-SURFACE EXPRESSION (pt = plain, terrace)
	-QUALIFIER (G = glacial; A = active; or I = inactive)
	-SURFICIAL MATERIAL (F = fluvial) -TEXTURE (sg = sand, gravel)

COMPOSITE SYMBOL DELIMITERS:

dash symbol ("-").

Due to scale limitations, up to 4 terrain units may be included in a single map unit label (e.g. sgFGptM.dsmMbM/xsCv\zcLGpM-XsV). Each component is separated by a delimiter that indicates relative proportions between the components (".", "/", "//") or a stratigraphic relationship "\").

### " - terrain units on either side of the symbol are of approximately equal proportion "/" - terrain unit(s) before the symbol is more extensive than the one(s) following "//" - terrain unit(s) before the symbol is considerably more extensive than the one(s) following

"\" - terrain unit(s) before the "\" symbol stratigraphically overlies the one(s) following

1st terrain unit / 2nd terrain unit //3rd terrain unit  $\setminus$  Underlying terrain unit >50% of map unit / 30-49% of map unit // 10-29% of map unit

	SURFICIAL MATERIALS
accumulatior parent mater	terials are non-lithified, unconsolidated sediments. They are produced by weathering, se n, human and volcanic activity. In general, surficial materials are of relatively young geologic rial of most (pedological) soils. Note that a single polygon will be coloured only by the domina by exist in that unit.
0	HOLOCENE Organic: Organic deposits are accumulations of vegetative matter thicker than 1 m. The floodplains, areas of near-surface permafrost such as north-facing slopes, and located drainage. Thin veneers of organic material are widespread and generally unmapped. Consists of peat with fibric to mesic decomposition.
E	Eolian: Sediment transported and deposited by wind. The dominant eolian sediment in the is predominantly silty in texture with a smaller fraction of fine sand. Loess veneers and be the landscape during the last (McConnell) glaciation. On stable sites, the loess is intact, colluviated areas, the loess is reworked into the soil profile and its presence is indicated Resedimented loess is a major component of colluvial aprons in the area. Ice-rich permalying eolian sediments.
С	Colluvium: Material transported and deposited by down-slope, gravity-driven processes landslides and snow avalanches. Colluvium is the dominant surficial material in the escaped Pleistocene glaciation. It commonly has a stratified structure with a highly varia controlled by the parent material, transport mechanism and travel distance. Colluvium generally derived from weathered bedrock and loess, resulting in a silt-rich diamicto bedrock clasts. On steeper slopes colluvium is generally coarser grained, as it has bee wasting processes such as rock fall, debris flows and avalanches. Slower processes such and creep occur on gentler slopes and produce finer grained colluvium. Colluvial aprone commonly ice-rich and are primarily composed of resedimented loess and peat.
F FA	Fluvial: Sediments transported and deposited by modern streams and rivers, found in flo Fluvial deposits typically consist of well-sorted stratified sand and gravel comprising sul In unglaciated regions, low order streams are confined to very narrow V-shaped valleys a generally not mapped due to scale limitations; their sediments, however, are more coars derived than in higher order streams. Active fluvial (FA) materials are subject to regular flo
	Glaciofluvial: Sediments transported and deposited by glacial meltwater above, in, belo Glaciofluvial materials are deposited in meltwater channels, eskers, plains, terraces, ka consist of moderately to well-sorted, rounded, stratified sand and gravel, although the r locally depending on transport distance. Near surface ground ice is generally absent in there is a poorly drained underlying unit present.
FG <sup>M</sup>	LATE WISCONSIN - MCCONNELL (M)
FG <sup>&gt;M</sup>	PRE-LATE WISCONSIN - MCCONNELL (>M)
FG <sup>R</sup>	ILLINOIAN - REID (R)
FG <sup>&gt;R</sup>	EARLY PLEISTOCENE - PRE-REID (>R)
	Morainal: Morainal (till) materials are diamicts deposited by either: primary glacial pro- deformation and melt-out (ablation); or secondary glacial processes caused by gravity term applies to all types of till including flow tills, which are not directly deposited by gravity relatively coarse grained and tend to have a hummocky or rolling surface expression; loc finer grained matrix with fewer clasts and a smoother surface expression. Tills are gene on slopes. Permafrost is widespread within morainal deposits. As most of the region sediments are rare in the map area. Even in upland areas that show evidence of all sediments remain as they have likely been buried in colluvium and/or modified by inte processes.
M <sup>M</sup>	LATE WISCONSIN - MCCONNELL (M)
M <sup>&gt;M</sup>	PRE-LATE WISCONSIN - MCCONNELL (>M)
M <sup>G</sup>	EARLY WISCONSIN - GLADSTONE (G)
M <sup>R</sup>	ILLINOIAN - REID (R)
M <sup>&gt;R</sup>	EARLY PLEISTOCENE - PRE-REID (>R)
LG	Glaciolacustrine: Stratified sand, silt and clay deposited in a lake that formed on, in, und contain dropstones (ice-rafted clasts). Ice-rich permafrost and thermokarst erosion is w as they are generally poorly drained with high <i>in situ</i> moisture contents that promote lenses. Glaciolacustrine sediments are rarely exposed in the region.
R	PRE-QUATERNARY Bedrock: Bedrock in this area is dominated by mid-Cretaceous Whitehorse Suite granodi Range Batholith in the northwest corner and Nisling Range Batholith south of Klaza Riv Paleozoic and older metamorphic lithologies (schist, quartzite, orthogneiss, amphibolite the central part of the area immediately north and south of Klaza River. Upper Cretac basalt, porphyry, and/or breccia) occur in the northeast portion of the map sheet near M

{	Range Batholith in the northwest corner and Nisling Range Batholith south of Klaza Paleozoic and older metamorphic lithologies (schist, quartzite, orthogneiss, amphibo the central part of the area immediately north and south of Klaza River. Upper Cre basalt, porphyry, and/or breccia) occur in the northeast portion of the map sheet nea Makepeace, 2003).
)	Weathered bedrock: bedrock decomposed or disintegrated <i>in situ</i> by processes weathering, such as freeze-thaw. Weathered bedrock is common on unglaciated upla and near tors. The material texture is coarse grained and sandy where derived fro silty component may be present due to incorporation of loess by cryoturbation.

	SYMBOLS		
	GEOLOGICAL BOUNDARIES:		GROUND OBSERVAT
	defined approximate assumed	•	(labelled with site num
	AGE OF GLACIAL FEATURES:	×	stratigraphic section
	McConnell (M) - late Wisconsin Gladstone (G) - early Wisconsin Reid (R) - Illinoian Pre-Reid (>R) - early to middle Pleistocene age unspecified		radiocarbon sample cosmogenic sample heavy mineral sample
	GLACIAL FEATURES:		erratic, unspecified ag erratic, Gladstone
	moraine ridge		erratic, Reid
	meltwater channel	$\bigtriangleup$	no erratics found
	cirque		OTHER SURFACE FE
	arete		
	GLACIAL LIMITS:	▲.▲ +	open system pingo; ur tor
* -* -* * -* -* **	defined approximate assumed	<b>T</b>	drumlin (coloured by g cryoplanation terrace kettle
	OTHER LINEAR FEATURES:	V	landslide, active layer
	escarpment lineation (fault, joint, tension crack) sand dunes strandline	₩Ö ×	palsa thermokarst pond placer mine Yukon mineral occurre
	TOPOGRAPHIC FEATURES:		
$\sim$	contours streams trails		

trais wetlands

ves and Kenk, 1997), with
some permafrost process d an age classification to

ses such as creep, solifluction, e region as most of the area ariable texture and composition ium on uplands and slopes is

sub-angular to rounded clasts. flooding.

kames and deltas. Sediments e nature and texture may vary n glaciofluvial deposits unless

processes such as lodgement vity and water. Therefore, this y glacial ice. Ablation tills are odgement tills typically have a nerally colluviated when found egion is unglaciated, morainal alpine glaciation, no morainal ntense periglacial and colluvial

under or beside a glacier; may widespread in these deposits ote the growth of massive ice

odiorites, including the Dawson River. These batholiths intrude te and/or gneiss) that underlie taceous volcanics (dacite, tuff, ear Mount Langham (Gordey and

s of chemical and/or mechanical lands, especially along ridge tops rom plutonic bedrock, although a

ATION SITES:

y glacial age) er detachment

rrence

sediment deposition, biological gical age and they constitute the ninant surficial material, but other . They are commonly found in ocations where there is poor . Organic material in the map n the map area is loess, which d blankets were deposited over act, whereas in cryoturbated or ated by the "z" textural symbol. rmafrost is common within low-

floodplains, fans and terraces.

elow, or adjacent to a glacier.

FEATURES: uncollapsed, collapsed

Organic terms

composed of unconsolidated materials, whereas bedrock slopes may be steeper; local relief >1 m; in plan, an assemblage of

icton containing angular, local been deposited by rapid mass such as sheetwash, solifluction ons found on lower slopes are

ys and their fluvial deposits are barse grained and more locally

umber, e.g. 10JB004)

**GEOLOGICAL SURVEY** 

TEXTURE

Texture refers to the size, shape and sorting of particles in clastic sediments, and the proportion and degree of decomposition of plant fibre in organic sediments. Texture is indicated by up to three lower case letters, placed immediately before the surficial material designator, listed in order of decreasing abundance. Specific clastic textures

a - blocks: angular particles >256 mm in size b - boulders: rounded particles >256 mm in size k - cobbles: rounded particles >64 - 256 mm in size p - pebbles: rounded particles >2 - 64 mm in size s - sand: particles between >0.0625 - 2 mm in size

z - silt: particles 2 µm - 0.0625 mm in size c - clay: particles ≤2 µm in size Common clastic textural groupings d - mixed fragments: a mixture of rounded and angular particles >2 mm in size

x - angular fragments: a mixture of angular fragments >2 mm in size (*i.e.*, a mixture of blocks and rubble) g - gravel: a mixture of two or more size ranges of rounded particles >2 mm in size (e.g., a mixture of boulders, cobbles and pebbles); may include interstitial sand r - rubble: angular particles between 2 and 256 mm; may include interstitial sand m - mud: a mixture of silt and clay; may also contain a minor fraction of fine sand

y - shells: a sediment consisting dominantly of shells and/or shell fragments o - organic: general organic materials

e - fibric: the least decomposed of all organic materials; it contains amounts of well-preserved fibre (40% or more) that can be identified as to botanical origin upon rubbing u - mesic: organic material at a stage of decomposition intermediate between fibric and humic h - humic: organic material at an advanced stage of decomposition; it has the lowest amount of fibre, the highest bulk density, and the lowest saturated water-holding capacity of the organic materials; fibres that remain after rubbing constitute less than 10% of the volume of the material

SURFACE EXPRESSION Surface expression refers to the form (assemblage of slopes) and pattern of forms expressed by a surficial material at the land surface. This three-dimensional shape of the material is equivalent to 'landform' used in a non-genetic sense (e.g., ridges, plain). Surface expression symbols also describe the manner in which unconsolidated surficial materials relate to the underlying substrate (e.g., veneer). Surface expression is indicated by up to three lower case letters, placed immediately following the surficial material designator, listed in order of decreasing extent. a - apron: a wedge-like slope-toe complex of laterally coalescent colluvial fans and blankets. Longitudinal slopes are generally less than 15° (26%) from apex to toe with flat or gently convex/concave profiles b - blanket: a layer of unconsolidated material thick enough (>1 m) to mask minor irregularities of the surface of the underlying material, but still conforms to the general underlying topography; outcrops of the underlying unit are rare

c - cone: a cone or sector of a cone, mostly steeper than 15° (26%); longitudinal profile is smooth and straight, or slightly concave/convex; typically applied to talus cones f - fan: sector of a cone with a slope gradient less than 15° (26%) from apex to toe; longtitudinal profile is smooth and straight, or slightly concave/convex h - hummock: steep sided hillock(s) and hollow(s) with multidirectional slopes dominantly between 15-35° (26-70%) if

non-linear, generally chaotic forms that are rounded or irregular in cross-profile; commonly applied to knob-and-kettle glaciofluvial terrain I - delta: landform created at the mouth of a river or stream where it flows into a body of water; gently sloping surfaces between 0-3° (0-5%), and moderate to steeply sloping fronts between 16-35° (27-70%); glaciofluvial deltas in the map area are typically coarse-grained with steep sides and gently inclined kettled or channeled surfaces

m - rolling: elongate hillock(s); slopes dominantly between 3-15° (5-26%); local relief >1 m; in plan, an assemblage of parallel or sub-parallel linear forms with subdued relief (commonly applied to bedrock ridges and fluted or streamlined till plains) p - plain: a level or very gently sloping, unidirectional (planar) surface with slopes 0-3° (0-5%); relief of local surface irregularities generally <1 m; applied to (glacio)fluvial floodplains, organic deposits, lacustrine deposits and till plains

r - ridge: elongate hillock(s) with slopes dominantly 15-35° (26-70%) if composed of unconsolidated materials; bedrock slopes may be steeper; local relief is >1 m; in plan, an assemblage of parallel or sub-parallel linear forms; commonly applied to drumlinized till plains, eskers, morainal ridges, crevasse fillings and ridged bedrock t - terrace: a single or assemblage of step-like forms where each step-like form consists of a scarp face and a horizontal or gently inclined surface above it; applied to fluvial and lacustrine terraces and stepped bedrock topography

v - veneer: a layer of unconsolidated materials too thin to mask the minor irregularities of the surface of the underlying material; 10 cm - 1m thick; commonly applied to eolian/loess veneers and colluvial veneers GEOMORPHOLOGICAL PROCESSES

Geomorphological processes are natural mechanisms of weathering, erosion and deposition that result in the modification of the surficial materials and landforms at the earth's surface. Unless a qualifier (A (active) or I (inactive)) is used, all processes are assumed to be active, except for deglacial processes. Up to three upper case letters may be used to indicate processes. These are listed in order of decreasing importance and placed after the surface expression symbol, following a dash (-) symbol.

Subclasses are used to provide more specific information about a general geomorophological process, and are represented by lower case letter(s) placed after the related process designator. Up to two subclasses can be associated with each process. Process subclasses used on this map are defined with the related process below.

**EROSIONAL PROCESSES** V - gully erosion: running water, mass movement and/or snow avalanching, resulting in the formation of parallel and sub-parallel, long, narrow ravines

FLUVIAL PROCESSES B - braiding channel: active floodplain consists of many diverging and converging channels separated by unvegetated bars I - irregularly sinuous channel: a clearly defined main channel displaying irregular turns and bends without repetition of similar features; backchannels may be common, and minor side channels and a few bars and islands may be present, but regular and irregular meanders are absent

J - anastamosing channel: a channel zone where channels diverge and converge around many islands. The islands are vegetated and have surfaces that are far above mean maximum discharge levels M - meandering channel: a clearly defined channel characterized by a regular and repeated pattern of bends with relatively

MASS MOVEMENT PROCESSES

F - slow mass movements: slow downslope movement of masses of cohesive or non-cohesive surficial material and/or bedrock by creeping, flowing or sliding

L - mass movement with an unspecified rate

uniform amplitude and wave length

R - rapid mass movements: rapid downslope movement by falling, rolling, sliding or flowing of dry, moist or saturated debris derived from surficial material and/or bedrock

Subclasses: (b) rockfall; (d) debris flow; (g) rock creep; (s) debris slide; (u) slump in surficial material PERIGLACIAL PROCESSES

C - cryoturbation: movement of surficial materials by heaving and/or churning due to frost action (repeated freezing and thawing)

S - solifluction: slow gravitational downslope movement of saturated non-frozen overburden across a frozen or otherwise impermeable substrate

X - permafrost processes: processes controlled by the presence of permafrost, and permafrost aggradation or degradation

Z - general periglacial processes: solifluction, cryoturbation and nivation, possibly occuring in a single polygon Subclasses: (e) thermokarst erosion; (f) thaw flow slides; (l) segregated ice; (n) pingo; (t) thermokarst subsidence; (r) patterned ground; (s) sheetwash; (w) ice-wedge polygons

DEGLACIAL PROCESSES

E - channeled by meltwater: erosion and channel formation by meltwater alongside, beneath, or in front of a glacier H - kettled: depressions in surficial materials resulting from the melting of buried glacier ice T - ice contact: landforms that developed in contact with glacier ice such as kames

SURFICIAL MATERIAL AGE APPROXIMATE GLACIAL MAXIMUM MARINE ISOTOPE STAGE GLACIATION TIME PERIOD M - McConnell late Wisconsin 15 000 years ago G - Gladstone early Wisconsin 55 000 years ago R - Reid 130 000 vears ago IIIInolan >R - Pre-Reid early to Middle Pleistocene 2.6 million to 200 000 years ago 8-102

ACKNOWLEDGEMENTS The authors would like to thank Northern Affairs Canda and Natural Resources Canada for their financial assistance and logistical collaboration. Camp logistics were provided by Larry and José at Tincup Lodge in 2008; without their hardwork and cooperation, the field work would not have run as smoothly as it did. A sincere thank you goes out to all the field assistants

helicopter transportation was provided by Trans North and Kluane Helicopters.

**RECOMMENDED CITATION** 

who contributed to this map, including: Sydney Van Loon, Catherine van der Lely and Victor Bond. Safe and reliable

Lipovsky, P.S. and Bond, J.D., 2013. Surficial geology of Klaza River (115J/01), Yukon (1: 50 000 scale). Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Open File 2013-7. Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey. Paper copies of this map may be obtained from Yukon Geological Survey, Geoscience Information and Sales, Energy, Mines and Resources, Government of Yukon, Room 102 - 300 Main St., Whitehorse, Yukon, Y1A 2B5. Phone: 867-667-3201, Fax: 867-667-3198, E-mail: geosales@gov.yk.ca. A digital PDF (Portable Document Format) file of this map may be downloaded free of charge from the Yukon Geological Survey website: http://www.geology.gov.yk.ca.

> Yukon Geological Survey Energy, Mines and Resources Government of Yukon

Open File 2013-7

Surficial Geology of Klaza River (NTS 115J/01) Yukon (1:50 000 scale)



Panya S. Lipovsky and Jeffrey D. Bond