112-19-629
Hayes River near the confluence with Gods River
Elevation (top): 58 m asl
UTM Zone 15, NAD83: 507925E, 6248129N

Ice-flow data and interpretation	Sediment interpretation	Stratigraphic unit [thickness]	Description
	Marine (postglacial)	8 [7.8 m]	Fine to medium sand; horizontally bedded; well sorted
			Gravel; clast supported; contains abundant shells, including whole valves of *Hiatella arctica*; granule- to large pebble-sized clasts
			Very fine sand; bedded with thin (<1 cm thick) clay laminae every 5–20 cm
			Sand and gravel; bedded; beds are ~0.2 m thick; gravel beds are coarse with up to boulder-sized clasts; some rip-up diamicton 'clasts' in the lower gravel bed; sharp, horizontal lower contact
	Till (glacial)	6 [7.8 m]	Brown (Munsell colour 10YR 4/3) diamicton; massive, matrix supported; sandy-silt matrix; crumbly appearance with oxidation rind on joint surfaces; 10–15% clasts; sharp, horizontal lower contact
	Fluvial or glaciofluvial	5 [0.6 m]	15.6–16.0 m: sandy gravel; matrix supported; 40% clasts that are granule to large pebble in size; poorly sorted
			16.0–16.2 m: sandy gravel and diamicton; heterogeneous bed
	Marine? (nonglacial)	5 [1.6 m]	16.2–16.3 m: medium to coarse sand with shell fragments
			16.3–16.6 m: very fine sand and medium to coarse sand; thinly (<0.05 m) bedded; well sorted
			16.6–17.8 m: very fine sand and medium to coarse sand; bedded; each bed is 0.3 m thick; well sorted; sharp, horizontal lower contact
	Till (glacial)	4 [2.0 m]	Dark greyish-brown (Munsell colour 2.5Y 4/2) diamicton; massive, matrix supported; clayey sandy-silt matrix; blocky appearance with oxidation rind on joint surfaces; 15% clasts; contact between unit 3 and 4 is placed at 20.0 m bgs where there is a sharp change in the clast fabric orientation
		3 [4.0+ m]	~12 m of colluvium to river level

Clay, Silt, Sand, Gravel, Diamicton

Depth (m): 0, 4, 8, 12, 16, 20, 24

W9765 — 348°, n=30, S_1=0.67, V_1=348°, 168°

112-19-629-A01 — 313°, S_1=0.63, V_1=133°, n=38

112-19-629-C01 — S_1=0.79, V_1=220°, 220°, n=30

W9769 — 314°, S_1=0.63, V_1=314°, n=30

W9771 — 327°, S_1=0.62, V_1=327°, n=30

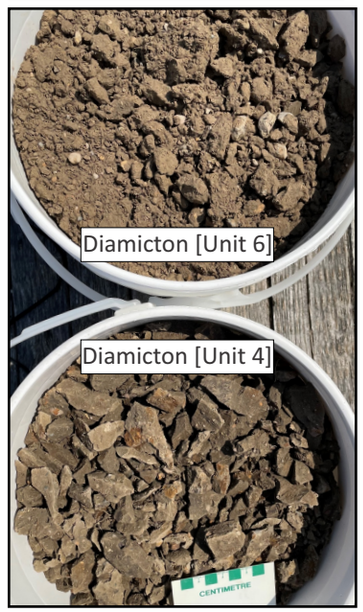
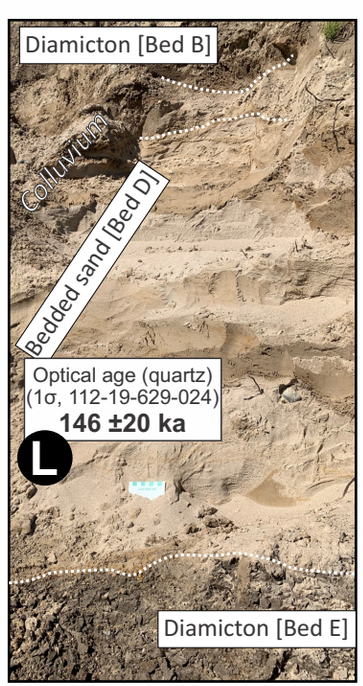
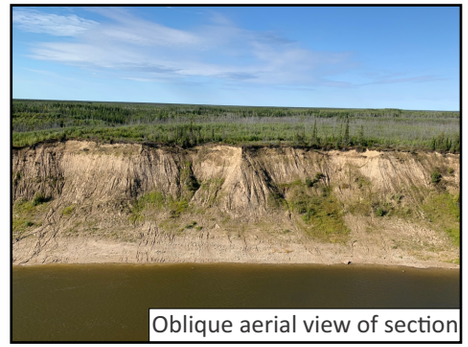
Simplified till clast-lithology (ct. %) — 0, 50, 100

<2 mm grain size (wt. %) — 0, 50, 100

Unit 6

Unit 4 (*J*)

Granitoid
Hudson Bay Basin
Greenstone/greywacke
Sand
Silt
Clay

J: oolitic jasper clast observed

Whole valve of *Hiatella arctica*