BOREHOLE LOG

PROJET: ADAPT
SITE: Beaver Creek
BOREHOLE NO.: BC2.1A
COORDINATES: Lat: 62.336235 N Long: 140.832096 W
ELEVATION:
START DATE: 2013-07-18
END DATE: 2013-07-18

Instrumentation
- Temperature sensor (Decagon ECT)
- Temperature sensor (YSI 44033)
- Volumetric water content, temperature and bulk electrical conductivity (Decagon 5ET)
- Volumetric water content (Decagon EC-5)
- Pressure sensor

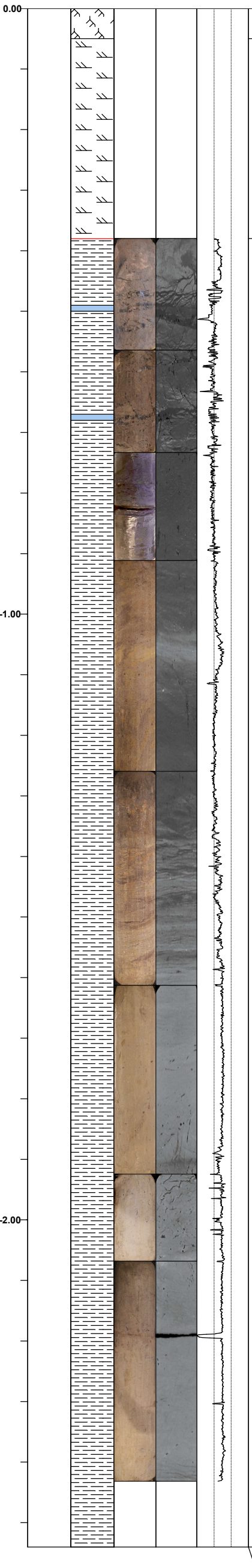
Instrumentation
- PVC casing

Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

Recovery
- Recovered
- No recovery

Sample state
- *Ud-F* Undisturbed and frozen
- *Ud-Uf* Undisturbed and unfrozen
- *D-F* Disturbed and frozen
- *D-Uf* Disturbed and unfrozen

C/H/N
- *w* Water content (%)
- *p* Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)



Depth (m)	Stratigraphy	Soil description	Sampling method	Sample state	Sample name	Volume (%) Soil / Ice / Air	Water content (%)	Salinity (ppm)	Grain size G	Grain size S	Grain size M-C	Consistency wl	Consistency wp	Consistency Ip	Consistency IL	USCS	Consol. kPa 25	Consol. kPa 50	Consol. kPa 100	C/H/N w	C/H/N p	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
0.00		Topsoil		D-Uf																							
		Little decomposed organic matter. Thaw depth at 0,38 m.																									
		Silt and organic matter. Lenticular and microlenticular cryostrucure. Possibly the base of the active layer at 0,50 m. Presence of ice veins between 0,56 and 0,67 m. From 1,68 m, the permafrost is ice-poor with nonvisible porous ice.		Ud-f	BC2,1A_44-45															38.761	1.487	5.367	0.837	0.269	2530	25	Peat
				Ud-f	BC2,1A_56-58															58.246	1.021	3.647	0.763	0.207			
					BC2,1A_58-59															62.952	1.222	4.861	0.867	0.257			
					BC2,1A_71-73															60.918	1.340	4.564	0.894	0.230			
				Ud-f	BC2,1A_73-74															68.959	0.805	4.643	0.808	0.250			
					BC2,1A_91-92															62.964	1.298	4.707	0.783	0.252			
				Ud-f	BC2,1A_92-93															49.440	0.828	3.463	0.724	0.218	7850	30	Peat
-1.00					BC2,1A_129-130															57.931	1.101	4.503	0.821	0.235			
				Ud-f	BC2,1A_130-131															52.445	1.481	3.704	0.697	0.233			
					BC2,1A_167-168															29.583	1.535	1.057	0.300	0.043			
				Ud-f	BC2,1A_168-170															28.787	1.981	1.057	0.326	0.042			
					BC2,1A_197-198															38.205	1.492	1.166	0.332	0.050			
-2.00				Ud-f																							
					BC2,1A_218-219															25.670	0.989	1.184	0.365	0.059			
				Ud-f																							
					BC2,1A_252-254															30.675	1.678	1.272	0.336	0.064			
		End of borehole at 2,54 m.																									

Version 1.4 E. L'Hérault and A-S. Carbonneau (2015-06)