BOREHOLE LOG

PROJET: ADAPT
SITE: Beaver Creek
BOREHOLE NO.: BC2.1B
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

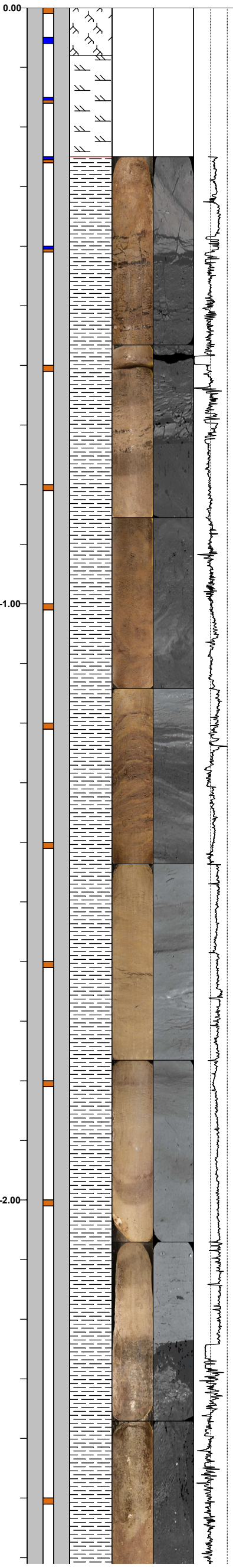
Instrumentation
- PVC casing

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 (%)
- ρ Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)



Depth (m)	Stratigraphy	Soil description	Sampling method	Recovery	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 ρ	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
		Topsoil																										
		Organic matter slightly decomposed. Thaw front at 0,25 m.			D-Uf																							
		Organic matter and silt. Visible porous ice with ice veins.			Ud-F	BC2,1B_25-27															38.851	1.316	6.142	0.959	0.321			
		Silt. Mostly microlenticular and porous invisible cryostructure. Thick ice lenses between 0,39 and 0,42 m and between 0,71 m. and 0,74 m.			Ud-F	BC2,1B_57-59															61.858	1.079	4.725	0.800	0.230			
					Ud-F	BC2,1B_59-61															66.226	1.085	5.498	0.940	0.279			
					Ud-F	BC2,1B_88-90															65.278	1.472	4.754	0.948	0.267			
					Ud-F	BC2,1B_90-92															64.005	1.435	4.283	0.894	0.259			
					Ud-F	BC2,1B_117-119															58.536	1.056	2.482	0.686	0.157			
					Ud-F	BC2,1B_119-121															28.706	1.668	1.251	0.422	0.050			
					Ud-F	BC2,1B_148-150															56.555	0.995	2.717	0.721	0.163			
					Ud-F	BC2,1B_150-152															-1.049	1.148	1.228	0.272	0.060			
					Ud-F	BC2,1B_178-180															28.944	1.229	1.347	0.435	0.089			
					Ud-F	BC2,1B_180-182															40.693	1.595	1.651	0.497	0.121			
					Ud-F	BC2,1B_208-210															30.157	1.382	1.451	0.426	0.088			
					Ud-F	BC2,1B_210-212															27.463	1.521	1.453	0.445	0.086			
		Silt. Suspended cryostructure. Very ice rich.			Ud-F	BC2,1B_238-240															59.721	1.155	5.189	0.928	0.242			
		Silt. Porous visible cryostructure.			Ud-F	BC2,1B_240-242															64.004	1.076	6.649	1.018	0.315			

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		Silt and gravel. Microlenticular cryostructure et crustal ice.			Ud-F	BC2,1B_271-273														49.063	1.235	7.157	1.032	0.340			
					Ud-F	BC2,1B-284-286														58.344	1.196	3.089	0.654	0.192			
-3.00					Ud-F	BC2,1B_300-302														55.232	0.908	2.607	0.585	0.159			

Stratigraphic information: Image; CT (HU) 3071 / -1024; TI profile (HU) -1024 / 1024 / 3071

Sampling characteristic: Volume (%) *Soil* / *Ice* / *Air* 0 / 100

End of borehole at 3,02 m.

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