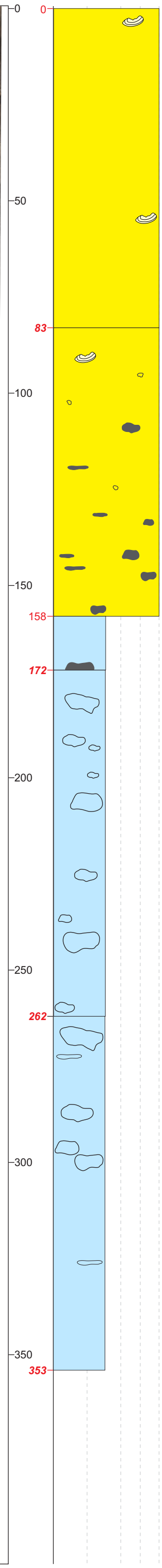
UNH-13

U.S.G.S Field Activity #: 1984-016-FA

Latitude: 42.9850 Longitude: -70.6700



Depth (cm)	Lithology: Mud / Sand / Gravel	DESCRIPTION	Color	Sample Depth (cm)	GSM (%) Gravel	GSM (%) Sand	GSM (%) Mud	Sand Fraction Only Mean Phi	Sand Fraction Only Sorting Phi	GSM (%) Gravel	GSM (%) Sand	GSM (%) Mud	Whole Sample Mean Phi	Whole Sample Sorting Phi	Depositional Environment	Seismic Unit
0–83	Sand	**Fine Sand**. Dusky yellow green (5GY4/2). ~90% Quartz, sub-angular, massive with faint mottling through out; large shell fragments.		20–25	0.2	90.1	9.7			0.0	92.5	7.5	2.9	0.76	Sand mounds since the last post-glacial lowstand.	**Unit 4**.Holocene sand sheets and mounds. From the top of the core up to 158 cm.
83–158	Sand	New core section. **Fine Sand**. Dusky yellow green (5GY4/2). Numerous shell fragments; cm-scale clay lenses and compacted pods; rock fragments up to 3 cm.		65						0.0	93.9	6.1	2.9	0.63		
				93						0.0	91.0	9.0	2.9	0.95		
				139						0.1	87.1	12.8	3.0	1.36		
158–172	Clay	**Clayey Silt or Silty Clay** . Dusky yellow green (5GY4/2). Distinct contact; very compact 10-cm clay or silt pod at base with iron staining.		161						0.0	20.7	79.3	7.4	3.61	Glacial-marine deposit with a substantial ice-rafting component.	**Unit 2**.Glacial-Marine Mud with a significant ice rafting component. From 158 cm to the bottom of the core.
172–262	Clay	New Core Section. **Clayey Silt or Silty Clay**. Dusky yellow green (5GY4/2). Very compact zone at 208 cm; Fine sand pods or lenses irregularly spaced throughout core; decreasing in occurrence towards base of section; iron staining in compact zones.		182						0.2	43.5	56.3	5.7	3.32		
				250–252	0.0	21.7	78.3			0.6	11.4	88.0	8.0	3.47		
262–353	Clay	New Core Section. **Clayey Silt or Silty Clay**. Dusky yellow green (5GY4/2). Fine sand lenses and pods at top and 284 cm.		286						1.1	75.7	23.2	3.7	2.25		
				316						0.0	25.3	74.7	7.1	3.66		

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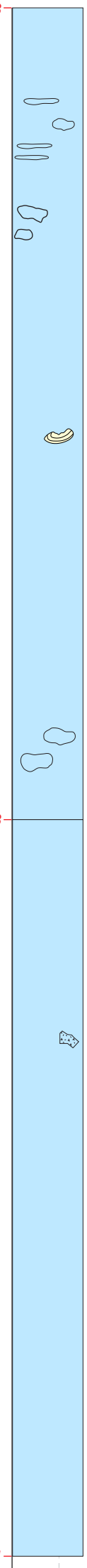
Photo (1984)	Photo (2019)	Depth (cm)	Lithology: Mud – Clay	Mud – Silt	Sand – VF	Sand – F	Sand – M	Sand – C	Sand – VC	Gravel – Granule	Gravel – Pebble	Gravel – Cobble	DESCRIPTION	Color	Sample Depth (cm)	Gravel	Sand	Mud	Mean Phi	Sorting Phi	Gravel	Sand	Mud	Mean Phi	Sorting Phi	Depositional Environment	Seismic Unit
		353 400 450 500 503 550 600 641											New Core Section. **Clayey Silt or Silty Clay**. Dusky yellow green (5GY4/2). Fine sand lenses and pods at 400 cm, 410 cm, 490 cm, 505 cm. Shell fragment at 445 cm; compact clays with iron staining.		413 423	0.0	8.2	91.8			0.0	7.3	92.7	8.4	3.23	Glacial-marine deposit with a substantial ice-rafting component.	**Unit 2**.Glacial-Marine Mud with a significant ice rafting component. From 158 cm to the bottom of the core.
													New Core Section. **Clayey Silt or Silty Clay**. Dusky yellow green (5GY4/2). Rock fragment (angular& basaltic) in sand lense with very fine to fine sand, shell fragment at 530 cm.		573						0.0	9.6	90.4	8.6	3.36		