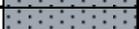


Sample Description For Virginia Beach Geoprobe Site 62A 18

Depth	Lithology	Recovery	Description
0-4		90	Upper 3 ft is a dark brown to gray organic rich sandy silt. 3-4 ft is a clean, med brown, subangular to subrounded, moderately well sorted qtz fine sand. DM abundant. Mica common. Occasional stems are found in the core. Soil is moist from 3.5-4 ft
4-8		90+	Same dark brown fine sand as above to 6.8 ft. Tan from 6.8 ft, but otherwise the same. Material appears to be fully saturated beginning at 4 or 4.5 ft.
8-12		90+	Same tan, fine sand as above to 10.8 ft. At 10.8 ft it grades quickly to a tan, subangular, lower med and lower coarse sand. DM and colored grains common. No mica.
12-16		95	Upper 0.3 ft is a med, dark brown, v fine pebbly, v coarse qtz sand. DM common. Colored grains abundant. Material begins to fine at 12.3 and by 12.7 ft is a med dark brown, v fine sand w/ abundant mica and DM. SC = 328 μ S/cm.
16-19.5		95	Liner cracked. Collected 3 jar samples. 16-18 ft: grayish brown, clean, subangular, v fine sand. Mica extremely abundant. DM abundant. 18-18.7 ft: abrupt transition to a tan, v fine to med pebbly, upper v coarse sand. Abundant colored grains. No mica. 18.7-19.5 ft: med dark brown, moderately well sorted, lower coarse to med v coarse sand. No mica. Large DM common. Colored grains common.
20-23.5		<10	Liner cracked. 20-21 ft: light tannish gray fine sand. Mica common. DM abundant. Somewhere around 21-22 ft was a silty layer of uncertain thickness and composition, but impermeable enough to effect a color change in the material below it. About 22-23.5 ft: upper v fine to lower fine, well sorted sand. Mica common. DM uncommon. Flat dark material - possibly organics?
24-27.5		100+	Upper portion of core is gray, very fine sandy silt. Appears to become sandier by 25 ft and by 26 ft, the material looks similar to that at the end of core liner. Material at 27.5 ft is a gray, clean, v fine sand. DM and mica common. Silt fraction is v small. Much free water in liner. SC = 250 μ S/cm. Large uncertainty in SC, the material didn't separate so there was a large suspended fraction.
28-31.5		100+	Liner shredded during retrieval, but full core recovery. Collected 3 jar samples. 28-28.5 ft: poorly sorted, gray, med and coarse sand. V slightly silty or v fine sandy fraction. Mica and v coarse sand uncommon. 28.5-31.0 ft: abrupt contact w/ above material. V fine sandy silt to clayey silt and silty v fine sand. Interbedded on a 2-15 cm scale. Very tight. 31.0-31.5 ft: v tight, gray, slightly silty, v fine to lower fine sand. Mica common.
32-35.5		90-95	Liner split on retrieval. Collected jar samples. 32-33 ft: gray, slightly silty, v fine to fine sand. Mica and DM common. No plasticity. Abundant small shell frags. Some entire bivalve halves. 33-33.5 ft: gray, dense, plastic, silty clay. Mica common. 33.5-34 ft: gray, med to lower coarse sand. Abundant shell frags and entire small bivalve halves. 34-35 ft: dense, plastic, gray, silty, clay. Mica common. 35-35.5 ft: same as 33.5-34 ft grading to a less shelly, clean, med sand. No mica. 4 drill flights of water.
36-39.5		100	Upper 2 ft would be a good aquifer if extensive. 36-38 ft: v shelly, coarse sand. Shell frags range from fine sand to med pebble sized. Good porosity and highly permeable. 38-38.5 ft: transition zone. Grain size decreases and shell material becomes less abundant. 38.5-39.5 ft: gray, v fine to fine sand. Mica abundant. DM common. 6 drill flights of water.
40-43.5		100+	Clean, subangular to rounded, well sorted, fine qtz sand. Mica abundant. DM common. Occasional bits of organic material. No shell. Free water in sleeve. Probably a low yielding water supply. 5 drill flights of water.
44-47.5		100+	Upper 0.1-0.2 ft is same as above. Transitions to a clayey silt. At 44.4 ft is a layer of organic rich, dark brown, silty fine sand and from this point until the 47.5 ft is an interbedding organic-rich fine sand, fine sand, fine sandy silt, clayey silt, and organic clayey silt. Interbedding is on the scale of 0.5 ft. Rare woody frags occur in the organic silts. Free water in liner. Moderate porosity, poor permeability. 1 drill flight of water.

Sample Description For Virginia Beach Geoprobe Site 62A 18

48-50.5		150+	Advance of probe stopped cold at 50.5 ft. Retrieved the sample and discovered a full 4 ft liner after only 2.5 ft of driving! Material is the same silty fine sand as above. The brown color is lost at 48.5 ft. material looks like a silty fine sand to about 49.5 ft at which point it becomes marked finer.
53-54		100+	Gray, clean, well sorted, subangular to well rounded qtz sand. No mica. DM rare. Upper v coarse sand is rare.