

Sample Description For Virginia Beach Geoprobe Site 61C 40

| Depth | Lithology | Recovery | Description |
|-------|---|----------|--|
| 0-2 |  | 100 | Brown, sandy silt w/ streaks of rusty orange colored sand. Few cm-sized layers of organic material |
| 2-4 |  | 100 | Same as above to 3.8 ft, then the color changes to gray, but material doesn't change |
| 4-6 |  | 60+ | Bottom 0.8 ft fell out during trip up hole. From 4-4.3 ft is same as above. Below this is a 7-10 mm bed of dark brown material which grades to a medium dark brown color. This med dark brown material runs to 4.7 ft. At 4.7 ft, the material changes to a very clean, tan, fine sand w/ scarce DM. |
| 6-10 | | | Driller Note: Continuing until it feels different. Got very hard at 10 ft. |
| 10-12 |  | 100 | Lost 0.7 ft from bottom of sample [during trip up ?]. From 10-10.5, the material is the same as fine sand seen at 4.7 ft. This grades downward to a gray, medium sand at 10.5-10.6 ft. By 11.3 ft, v coarse sand to v fine pebbles are mixed in with the gray, med sand. |
| 12-14 | | | Driller Note: Very hard driving. Hard hammering required. |
| 14-16 |  | 100 | Material gets so packed in the liner, that it cannot advance further up the tube. We are now below the WT. Clean, gray, v fine to fine sand w/ abundant DM. Free water visible in liner. |
| 16-20 | | | Driller Note: Same driving as 11.3-15.3 |
| 20-22 |  | 100 | Same as 14-15.3 ft. |
| 22-27 | | | Driller Note: Driving feels similar to above all the way to 26.5. From 26.5 to 28.5, driving was much easier -- hard pushing to light hammering. At 28.5, it got hard again. |
| 27-29 |  | 70 | Liner shattered during retrieval. Collected a jar sample. The material is the same throughout the interval. It is a silty, shelly, med to coarse sand. The shell frags are generally fine to lower med sand-sized, but occasionally as large as v. fine pebbles. There is much water in this material. It is |
| 29-34 | | | Driller Note: 29-33 is same as above. At 33 ft, driving became very easy -- easy pushing, truck rising very little. |
| 34-36 |  | 100 | Interval has 10 cm-scale interbedding of v fine sandy silt and silty clay. Fine grain sand-sized mica flecks are in the sandy silt. Finer grained mica throughout. Material is moderately plastic. |
| 36-44 | | | Driller Note: Driving became a little harder around 41 ft - the truck is now rising when pushing. Pushing is still very smooth. |
| 44-46 |  | 100 | Fine, sandy silt w/ abundant shell frags grading to a slightly silty fine sand. The upper material is slightly plastic. The lower material is very slightly plastic, is not as shelly as the upper, and mica is common. The mica flecks in the upper material are larger. |
| 46-48 | | | Driller Not: Hard drilling beginning at 46.5 ft. |
| 48-50 |  | 100 | Material is an subrounded to well rounded, upper fine to lower med qtz sand w/ DM common and rare mica. Lenses of very shelly material are common. There is much free water in the liner. |

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| 50-54 | | | Driller Note: Very hard driving from 50-54 ft. Nearly stopped our progress. |
| 54-55 |  | 100 | Slightly silty fine to med sand w/ abundant shell frags. Lenses of siltier material present. SC = 478 μ S/cm |