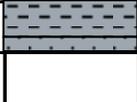
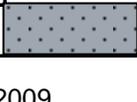


Sample Description For Virginia Beach Geoprobe Site 62C 19

Depth	Lithology	Recovery	Description
0-4		85	Brown, silty, med sand. Angular pebbles and smaller well rounded pebbles. Zones of orangish oxidation throughout. Occasional woody frags. Some of the upper portion is probably fill.
4-8		90+	Color changes from brown to gray at 4.4 ft and becomes wet around 5 ft. Becomes much finer grained at 4.2 ft. Material appears to be the same from 4.2 ft to the end. At 8 ft: dark gray, v fine sandy silty w/ occasional lenses of silty, v fine to fine sand. Large wood frags rare.
8-12		100	Same gray sandy silt as above to 9.2 ft. The bottom of the silty is marked by a thin, brown zone of med to lower coarse sand. 9.2-10.4 ft is a gray, sandy silt. At 10.4 ft the material grades to a fine to lower med sand. At 11.2, the material grades up to a gray, clean subrounded to rounded lower med sand. DM common. No mica.
12-16		100	12-13.3 ft: same as above. 13.3-14.5 ft: material is more tan in color, which may be due to the migration of very rusty water from a zone at 15 ft. 14.5-15 ft: transition zone. Material coarsens. 15-15.7 ft: very rusty orange, coarse sand. The water from this zone is becoming dispersed throughout the sample. 15.7-16 ft: same as 14.5 ft.
16-20		100	16-17.7 ft: clean, coarse, qtz sand. DM and v coarse sand grains common. 17.7-18.3 ft: transition zone. Grades to a very coarse sand and back to a coarse sand. 18.3-20 ft: Coarse sand grades down to a gray, med sand by the bottom of the sample. Much free water in the sample liner. The fluid has a tannish color and has changed the color of the entire sample. The transition from tan to gray is somewhere in this interval.
20-24		90	Liner split during retrieval. Collected 2 jar samples. 20-20.5ft: Gray, med to fine sandy silt. Moderately plastic. Interfingers of silty fine to med sand. 20.5-24 ft: gray, clean, subangular to rounded qtz sand. DM common. Very difficult to drive through.
24-29.5			Driller Note: Same material as 20.5-24 ft. Hard hammering required.
29.5-31.5		100	Lost upper 1.1 ft of liner during retrieval. Material uniform throughout. Gray, clean, rounded, upper fine to lower med qtz sand. Mica abundant. DM uncommon.
31.5-36			Driller Note: Driving became much easier at 35.5 ft.
36-38		70	36-37.5 ft: gray, v fine to fine sand. Mica and DM common. 37.5-38 ft: gray, fine, sandy silt to clayey silt. Much free water in liner. 2 drill flights of water.
38-42			Driller Note: Very easy pushing from 38-42 ft. Occasional harder zone, but generally feels like a silt. At 40 ft, driving became consistently easy with no hard zones.
42-44		50	Lost lower half of sample. Inner rod was fully extended, so it either ran out of the barrel or was too plastic to break off in the liner. 42-42.9 ft: slightly to moderately silty, v fine to fine sand. Mica common. Slightly plastic. Interfingers of siltier material. 42.9-43.1 ft: gray, poorly sorted, fine to
44-47			Driller Note: 44-46.5 ft is still easy driving. At 46.5 ft it got harder. Light hammering needed to collect next sample.
47-49		85	Moderately well sorted, upper med to coarse sand. Lenses of silty, fine to med sand in the lower foot of the sample. DM uncommon. Colored grains rare.

Sample Description For Virginia Beach Geoprobe Site 62C 19

49-52			Driller Note: Easier driving. No hammer needed to 50 ft and none needed to collect sample to 53. At 53 ft, hard hammering required to collect sample.
52-53.5		90	Liner split during retrieval. Collected 2 jar samples. 52-53 ft: gray, stiff, silty clay. Material coarsens to a very silty, med to coarse sand at 53 ft. 53-
53.5-63			Driller Note: 53.5-60/61 ft is very difficult driving. (Clean med sand??) A bit easier from 61-62.5 then stopped dead at 63 ft.
63-64		0	No sample. Inner rod broke while trying to unscrew plug in sampler.