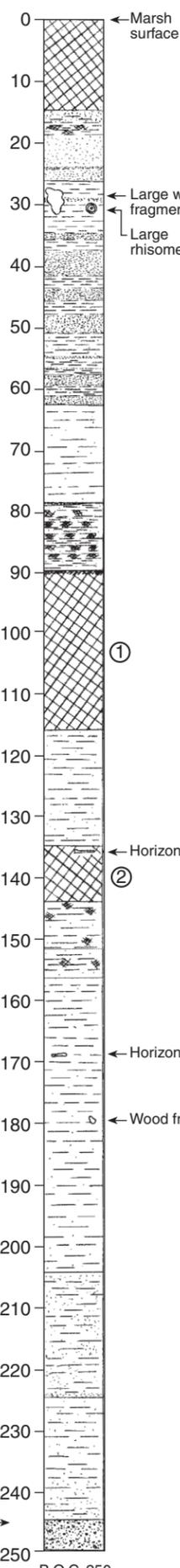


**Core 02-V6
(20% compaction)**



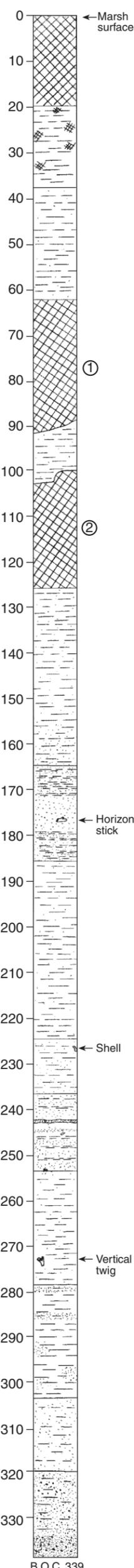
Depth Interval

- 0-15**
Modern peat marsh
- 15-26.5**
Sand, olive gray, f. to v.f. grained, trace mica (~5%), single grain supported, weakly laminated, common v.f. horizontal roots, trace macro plant fragments, contains 2 cm thick sandy mud layer at 15 cm. w/ ~30% fine sand, woody debris, and common fine roots, contains 2 cm thick olive brown mud layer at 17 cm w/ less sand than above and concentrated horizontal peat, contains a rusty 5 mm thick oxidized sand layer at 24.5 cm, lower contact over 1 mm.
- 26.5-63**
Interbedded fine sand with silty organic mud, dark gray and black respectively, sand texture is loamy w/ ~10-20% silt, trace mica (<5%), and trace organic detritus, mud laminae are predominantly silt w/ trace fine sand, very few v.f. roots, and discontinuous horizontal peat mats, contains a 5 cm long redwood stick between 28 and 32 cm, lower contact over 1 mm.
- 63-79**
Silty mud, black, ~5-8% clay, very few v.f. horizontal roots, trace f. sand, few v.f. pores, weak horizontal partings, massive, slight odor, ~20% organics, lower contact over 1 mm, base of contact has a 2 mm thick discontinuous f. to v.f. sand laminae.
- 79-90**
Peaty mud interbedded w/ dark gray to brown silt w/ up to 40% organics, weakly laminated, trace sand and mica grains, few coarse peat fragments, very few v.f. random roots, velvety texture, laminae are predominantly 5 mm thick, lower contact over 1 mm.
- 90-116**
Peat, dark reddish brown, well decomposed, strong odor, ~80% organics, contains seeds (<1 mm diameter), few v.f. random roots, few coarse peat fragments, mineral component silt, no mica, uppermost 0.5 cm of unit has dark coarse peat fragments that may have been rooted in the unit.
- 116-135**
Mud, silt loam, dark gray, massive, trace mica (~5%), mica increases towards base of unit, <20% clay, ~80% silt, trace v.f. random roots, weak sub-horizontal partings, lower contact over 1 mm.
- 135-144**
Peat, dark grayish brown, well decomposed, ~80% organic peat, mineral component silt, trace mica, very few random roots, few coarse peat fragments near base, 2 cm long horizontal stick at 136 cm, lower contact over 3-5 mm.
- 144-156.5**
Mud, silt loam to silt, dark olive brown, micaceous, very few v.f. and f. roots, very few v.f. pores, massive, ~20% organics, ~10-15% clay, ~70% silt, lower contact over 5 mm.
- 156.5-204.5**
Mud, silt loam, dark olive brown, micaceous, ~7-12% clay, ~60% silt, ~30% organics, similar to unit above but more organics, contains horizontal stick 2.5 cm long at 169 cm, lower contact over 3-5 mm.
- 204.5-225**
Sandy silt loam, dark olive brown, ~10% v.f. sand w/ trace coarse sand and granules, micaceous (<5%), ~10-20% organics, slight odor, massive, weakly laminated in lower 4 cm of unit, trace coarse plant fragments, very few v.f. random roots, contains a 3 cm thick silt loam without sand directly above 5 mm thick v.f. grained sand laminae at base, lower contact over 1 mm.
- 225-245**
Mud, silt loam w/ sand, dark brown, micaceous, ~10% organics, very few v.f. random roots, trace coarse sand near top of unit increasing downward to ~15% coarse sand at base, granules up to 3 mm long, common v.f. random roots near base, few coarse peat fragments, lower contact gradual over 10 mm.
- 245-250**
Gravel w/ coarse sand, clean, angular clasts up to 5 mm include quartz and feldspar, interpreted as an alluvial channel deposit, contact between overlying unit and gravel unit was observed in the core catcher, core refusal at 250 cm.

Note: actual contact depth is 314 cm. Due to compaction in core (20%), contact shown where observed in core.

B.O.C. 250

**Core 02-V7
(14.4% compaction)**



Depth Interval

- 0-20**
Modern marsh peat
- 20-38**
Peaty mud, silt loam, black, ~20% clay, massive, common v.f. roots, few f. vertical roots, no mica, lower contact over 3 mm.
- 38-62.5**
Mud, silt loam, dark brown to black, massive, few f. vertical, common v.f. random roots, ~10% clay, no mica, unit is similar to unit above but less clay and lighter color, lower contact over 1-2 mm.
- 62.5-92**
Peat, dark reddish brown, fibrous, common coarse peat fragments, many v.f. random roots, ~80% organics, ~20% mineral component (silt), contains seeds, below 76 cm peat is more decomposed w/ fibrous to velvety texture.
- 92-103**
Mud, silt loam, dark gray, few to common f. pores, trace med. random roots, no mica, few v.f. random roots, massive, slight odor, <10% clay, lower contact over 2 mm.
- 103-126**
Peat, dark reddish brown, ~80-90% organics, well decomposed, common v.f. random roots, common coarse peat fragments, velvety structure, lower contact over 5 mm.
- 126-165**
Mud, silt loam, dark olive brown, micaceous, (~5%), massive, common v.f. random and trace f. random roots, contains <5% woody debris, ~10-15% clay, ~75-80% silt, no odor, ~25-30% v.f. sand throughout unit, sand concentration increases near base, lower contact over 3 mm.
- 165-186**
Interlaminated sand and loamy sand, dark gray, some laminae are dark brown color indicating reworked organic mud from below, ~10% mica, >80% sand, <10-20% silt, trace wood and twigs, trace v.f. and f. roots, contains a horizontal stick (2 cm long and 0.5 cm in diameter) at 377 cm, mud laminae are concentrated in upper 7 cm and lower 7 cm of unit, lower contact over 2 mm.
- 186-225**
Mud, silt loam, dark olive brown, organic odor, micaceous (<5%), few f. and v.f. random roots, trace woody debris, massive, <10% clay, ~10% organics, contains small twigs w/bark at 209 cm, lower contact over 10 mm.
- 225-237**
Sandy silt loam, dark olive brown, ~20% v.f. sand, trace coarse sand, massive, organic odor, ~10% organics, trace v.f. random roots, lower contact over 5 mm.
- 237-254**
Loamy sand with gravel, dark gray to brown, >70% sand, trace woody debris, trace v.f. random roots, weakly laminated, individual laminae range from 0.5-1 cm thick, contains a 1 cm thick coarse sand layer, some pockets of silt near base suggest bioturbation, lower contact over 3 mm.
- 254-279**
Silt loam, dark olive brown, massive ~15-20% clay, few v.f. random roots, trace gravel, trace mica, contains a woody twig from 273-275 cm, organic odor, ~10% organics, lower contact over 2 mm.
- 279-304**
Silt loam, dark olive brown, massive, ~10% clay, very few v.f. roots, trace woody debris, no odor, trace mica, similar to unit above but more sand, sand occurs in patches and in layers between 280-282 cm and 285-287 cm, lower contact over 10 mm.
- 304-320**
Loamy sand, dark olive brown, trace mica, ~80-90% v.f. grained sand, trace med. to coarse sand, trace angular gravel up to 4 mm, lower contact over 10 mm.
- 320-339**
Loamy sandy gravel, dark olive brown, massive to single grained structure, feldspar and granitic clasts are angular and up to 1 cm diameter, below 334 cm material is a pure sandy gravel, interpreted as an alluvial channel, core refusal at 339 cm.

B.O.C. 339

Figure 10. Detailed stratigraphic descriptions for vibra-cores 02-V6 and 02-V7. The location of buried marsh soils as described in text are numbered and shown on the right side of core.