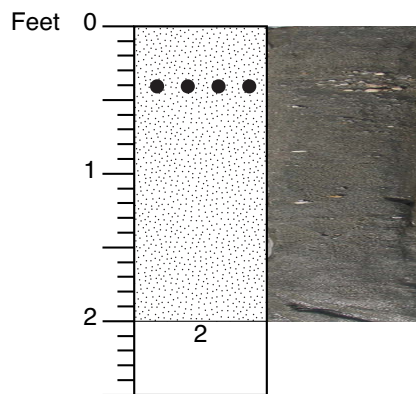


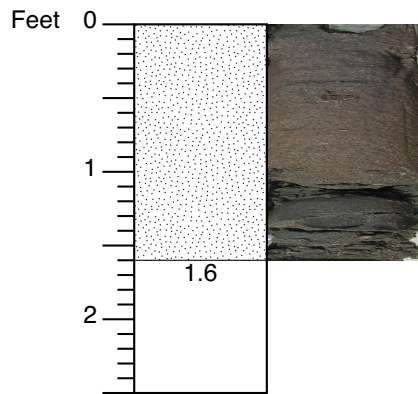
SAND, medium to coarse; rock at 0.5 ft; fill; soupy sand below

SH-SMY-A Core #2
Start depth: 5 ft
Stop depth: 10 ft
Recovery (ft): 1.3
Date: 5/13/14
Described by: KGM, NSK



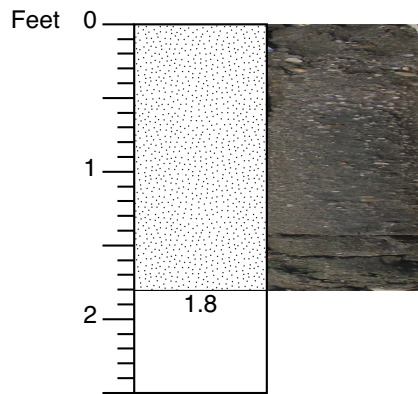
SAND; medium; quartz, 3-5% ohm; massive; rounded to well rounded; granuliferous layer with a few pebbles at 0.4-0.5 ft (Note: granules on the surface of cores found below this one may be caved from here); 5Y 4/1 dark gray

SH-SMY-A Core #3
Start depth: 10 ft
Stop depth: 12.5 ft
Recovery (ft): 2
Date: 5/13/14
Described by: KGM, NSK



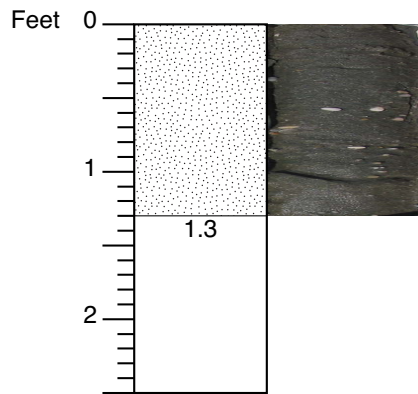
SAND; medium to coarse, scattered granules; ohms 3-4%;
0-1 ft: pebble caved from parking lot; 10YR 4/1

SH-SMY-A Core #4
Start depth: 12.5 ft
Stop depth: 15 ft
Recovery (ft): 1.6
Date: 5/13/14
Described by: KGM, NSK



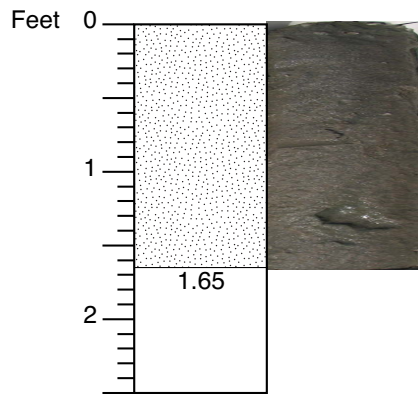
SAND; medium to coarse, granular, few pebbles, large pebble in core; ohm <3%; less granular at base; 10YR 4/1 gray

SH-SMY-A Core #5
Start depth: 15 ft
Stop depth: 17.5 ft
Recovery (ft): 1.8
Date: 5/13/14
Described by: KGM, NSK



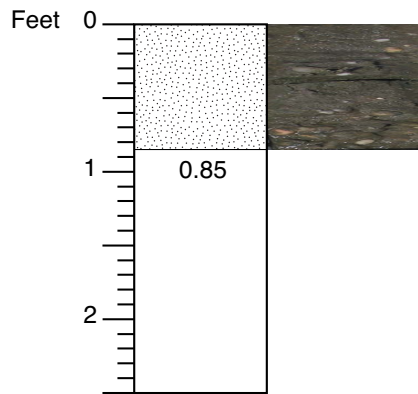
SaAND; medium to coarse; ohm ~5%; pebbles appear to be caved; 10YR 4/1 dark gray

SH-SMY-A Core #6
Start depth: 17.5 ft
Stop depth: 20 ft
Recovery (ft): 1.3
Date: 5/13/14
Described by: KGM, NSK



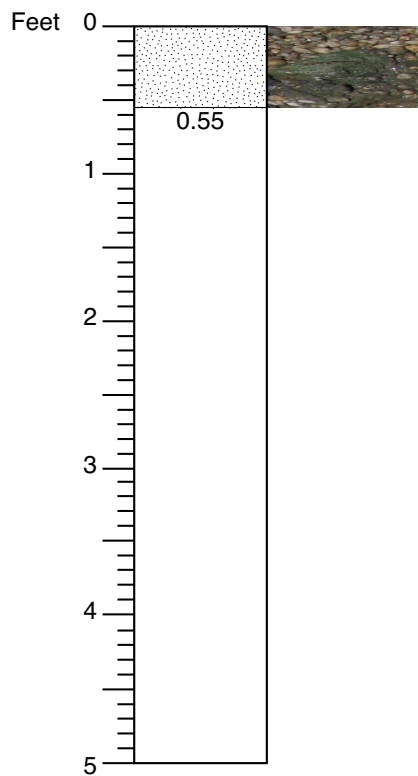
SAND; medium to coarse; ohm <3%;pPebbles appear to be caved; 10 YR 4/1 dark gray

SH-SMY-A Core #7
Start depth: 20 ft
Stop depth: 22.5 ft
Recovery (ft): 1.65
Date: 5/13/14
Described by: KGM, NSK



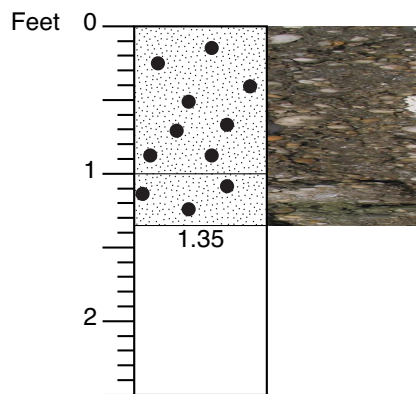
SAND; medium to coarse; ohm 3%; granules and pebbles on outside only from caving; 10YR 4/1 dark gray

SH-SMY-A Core #8
Start depth: 22.5 ft
Stop depth: 25 ft
Recovery (ft): 0.85
Date: 5/13/14
Described by: KGM, NSK



Washed out fines, left pebbles 0-0.2 ftSome core with
intruded pebbles10Y 4/1 dark greenish gray Greenish sand,
medium ~3% Ohm Glauconite? `

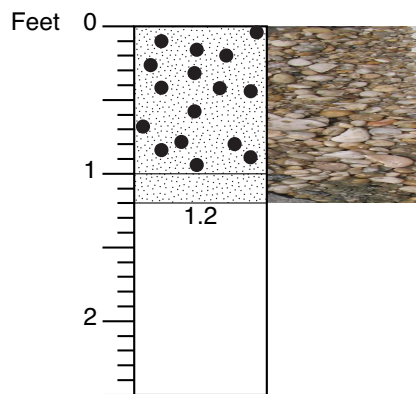
SH-SMY-A Core #9
Start depth: 25 ft
Stop depth: 30 ft
Recovery (ft): 0.55
Date: 5/13/14
Described by: KGM, NSK



SAND; medium to coarse, with granules and pebbles; caved

SAND; medium, pebbles and granules intruded (not much intact core); ~3% ohm; 10Y 4/1 dark greenish gray

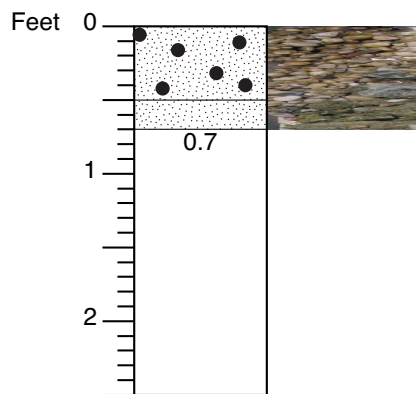
SH-SMY-A Core #10
Start depth: 30 ft
Stop depth: 32.5 ft
Recovery (ft): 1.35
Date: 5/13/14
Described by: KGM, NSK, RMF



GRANULES AND PEBBLES; caved material

SAND; medium to coarse; ~3% ohm; very little intact sediment retained); 10Y 5/1 greenish gray

SH-SMY-A Core #11
Start depth: 32.5 ft
Stop depth: 35 ft
Recovery (ft): 1.2
Date: 5/13/14
Described by: KGM, NSK, RMF



PEBBLES/GRANULES; caved material

0SAND; medium to coarse, light/white band, shell material; 4 cm granule, 'parking lot'; rounded granules with sand matrix, likely intruded into sand during drilling; <3% ohm; 10Y 4/1 dark greenish gray

SH-SMY-A Core #12

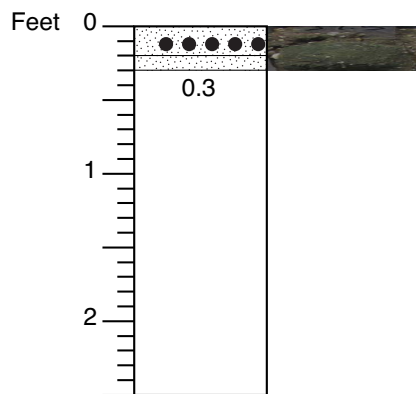
Start depth: 35 ft

Stop depth: 37.5 ft

Recovery (ft): 0.7

Date: 5/13/14

Described by: KGM, NSK, RMF



CAVED GRANULES

SAND; medium; some granules intruded in; 2-3% ohm;
largest piece of intact unit in last 3 runs; 10Y 4/1 dark
greenish gray

SH-SMY-A Core #13

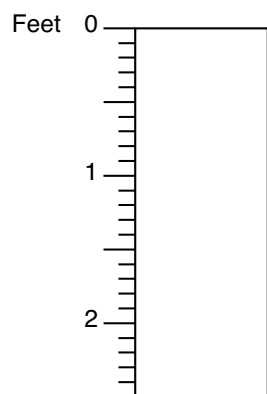
Start depth: 37.5 ft

Stop depth: 40 ft

Recovery (ft): 0.3

Date: 5/13/14

Described by: KGM, NSK, KMM, RMF



No Recovery

SH-SMY-A Coer #14

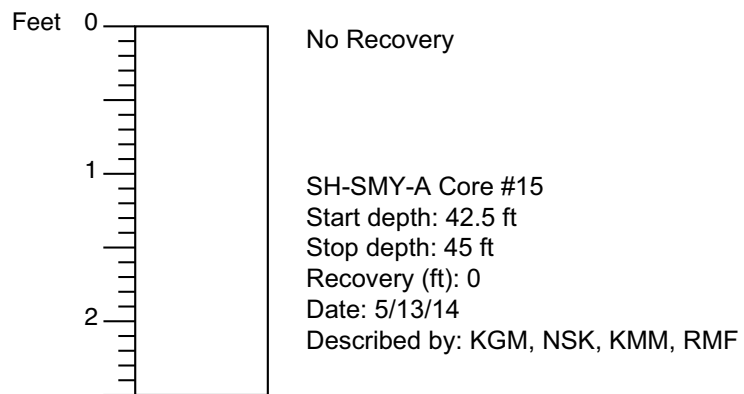
Start depth: 40 ft

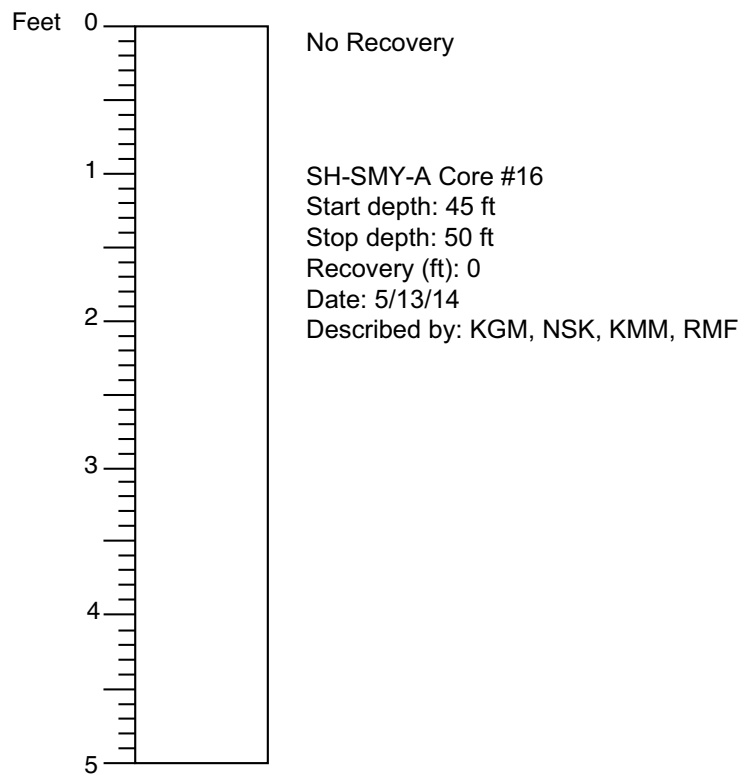
Stop depth: 42.5 ft

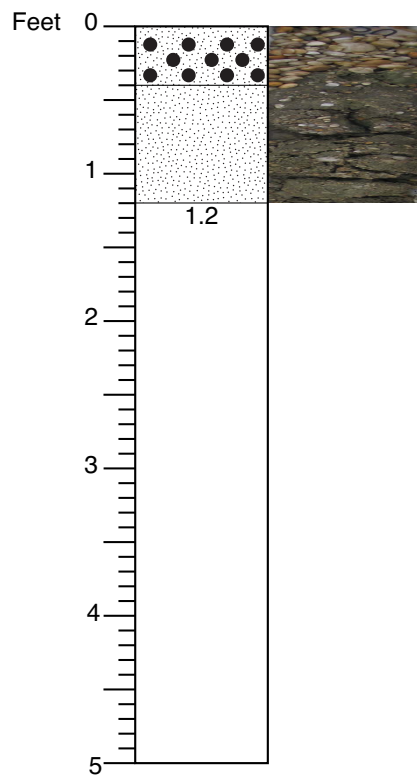
Recovery (ft): 0

Date: 5/13/14

Described by: KGM, NSK, KMM, RMF







GRANULES AND PEBBLES; caved

SAND; medium, with granules (2 cm max); 3%oOhm; 10Y/
5GY 4/2 dark grayish olive

SH-SMY-A Core #17

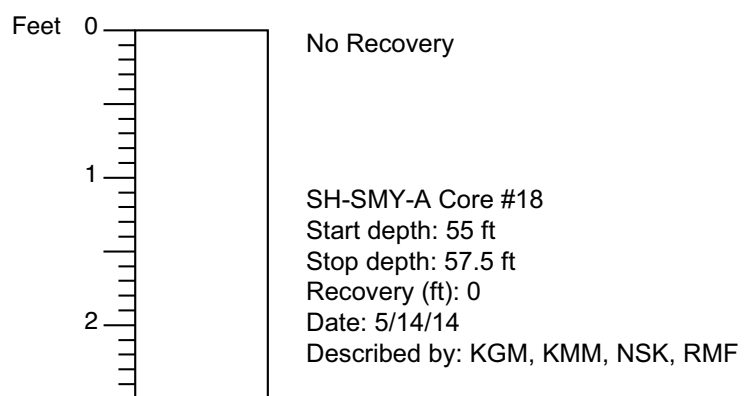
Start depth: 50 ft

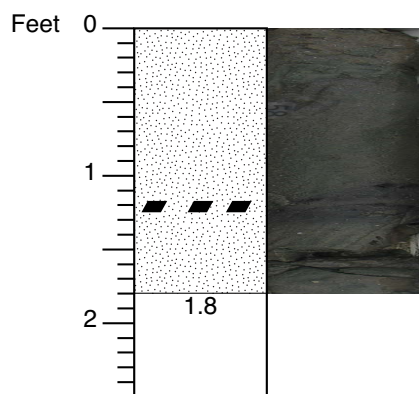
Stop depth: 55 ft

Recovery (ft): 1.2

Date: 5/13/14

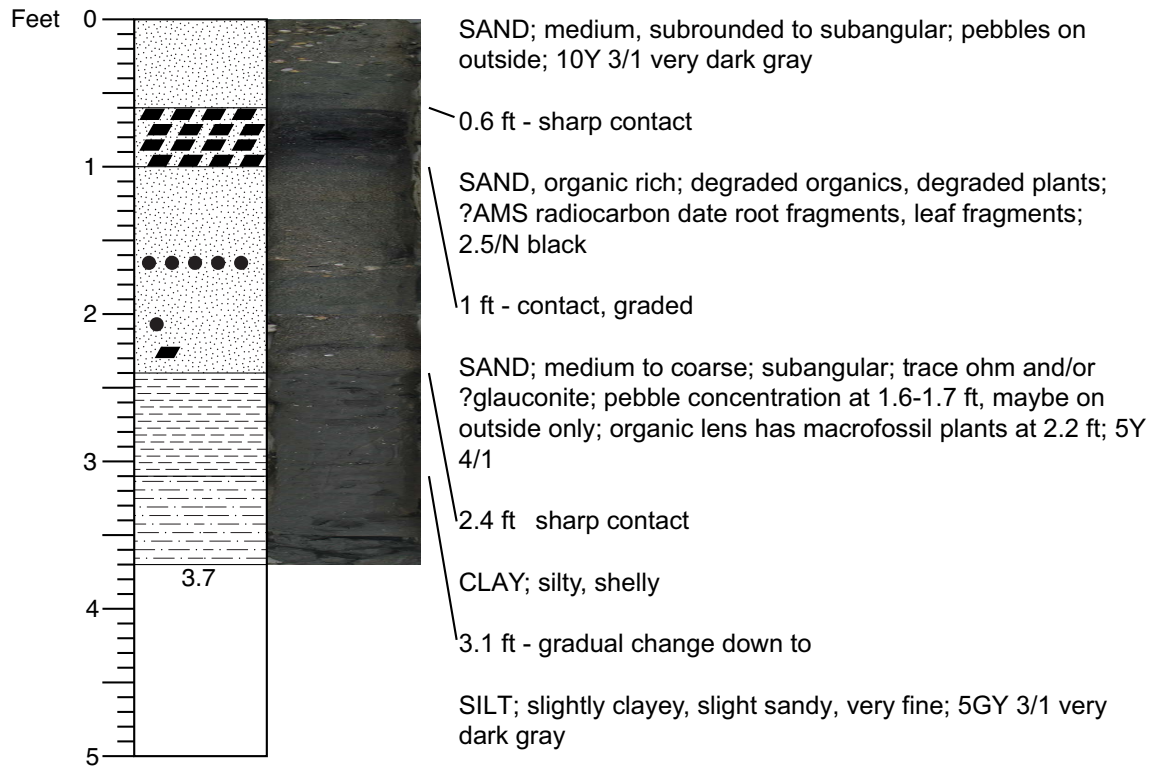
Described by: KGM, KMM, NSK, RMF



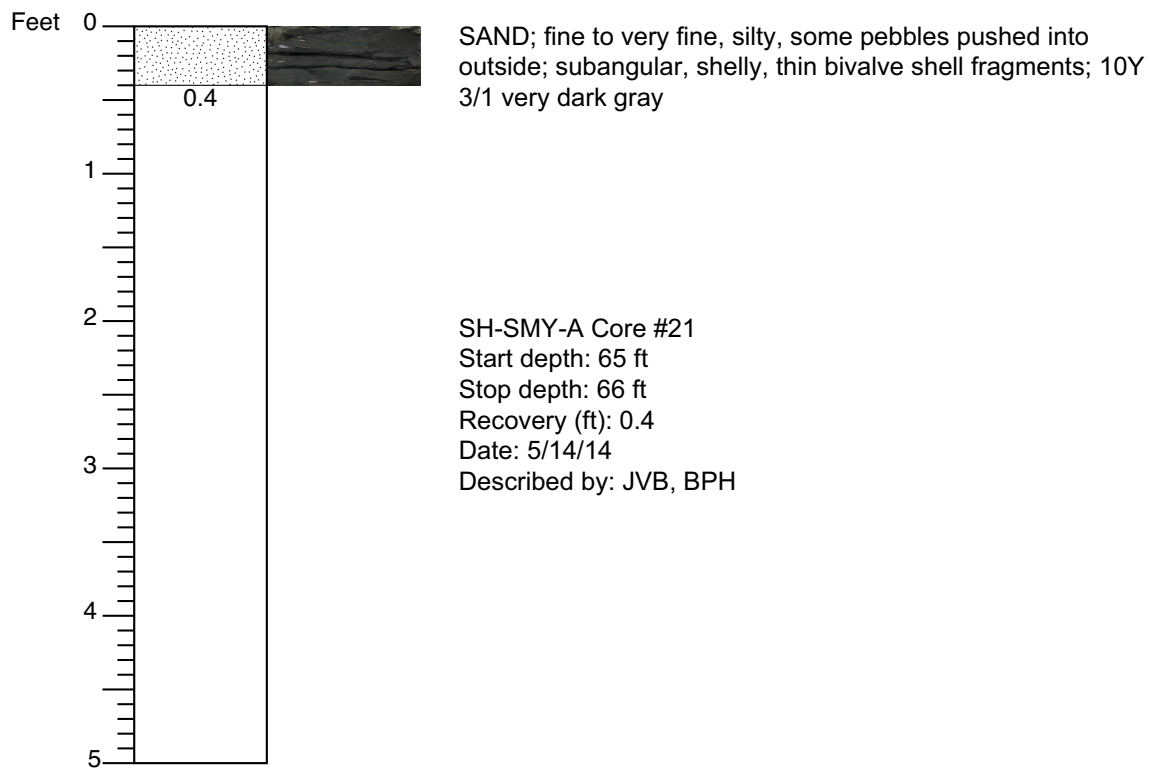


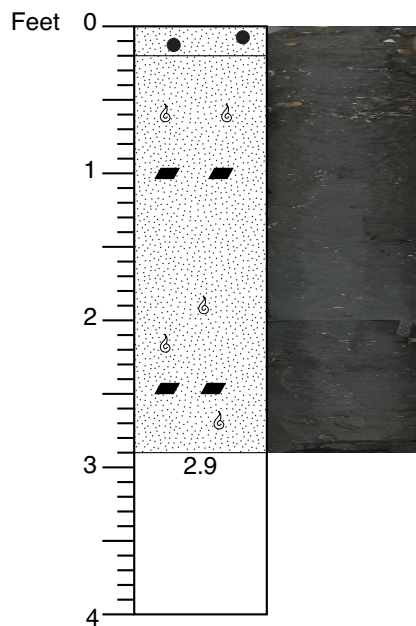
SAND; medium, trace silt; quartz, trace glauconite;
subangular; lignitic bed: 1.15-1.35 ft; 10Y 3/1 very dark
greenish gray

SH-SMY-A Core #19
Start depth: 57.5 ft
Stop depth: 60 ft
Recovery (ft): 1.8
Date: 5/14/14
Described by: JVB, CJL, BB



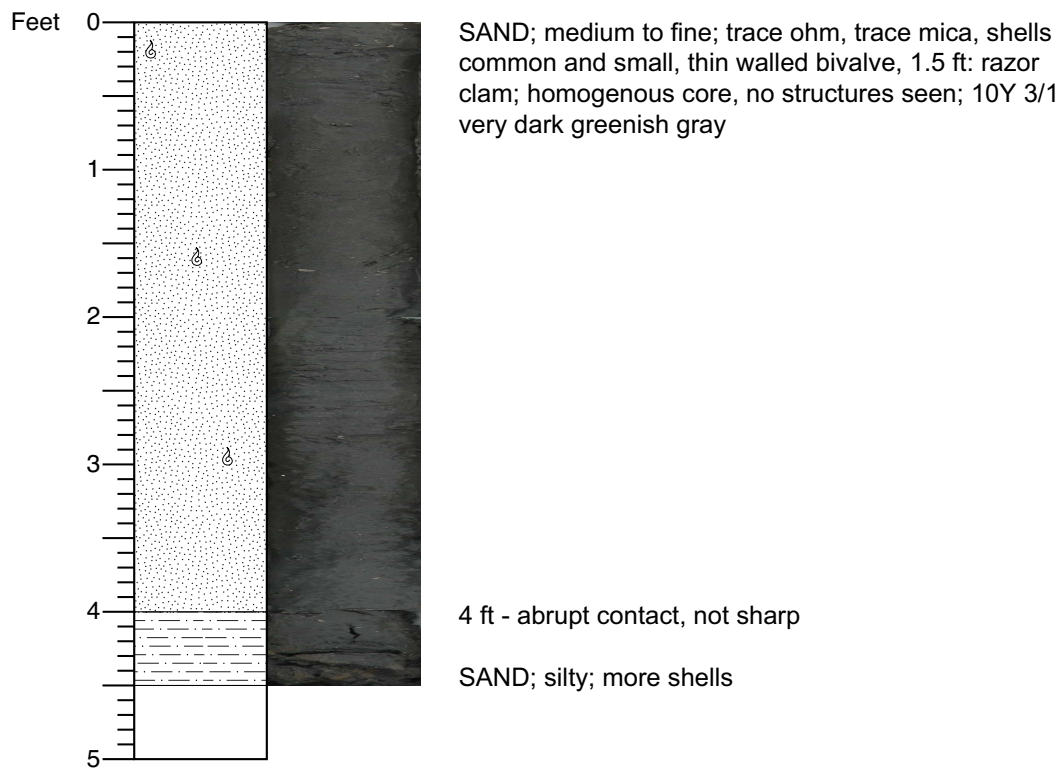
SH-SMY-A Core #20
Start depth: 60 ft
Stop depth: 65 ft
Recovery (ft): 3.7
Date: 5/14/14
Described by: JVB, BPH



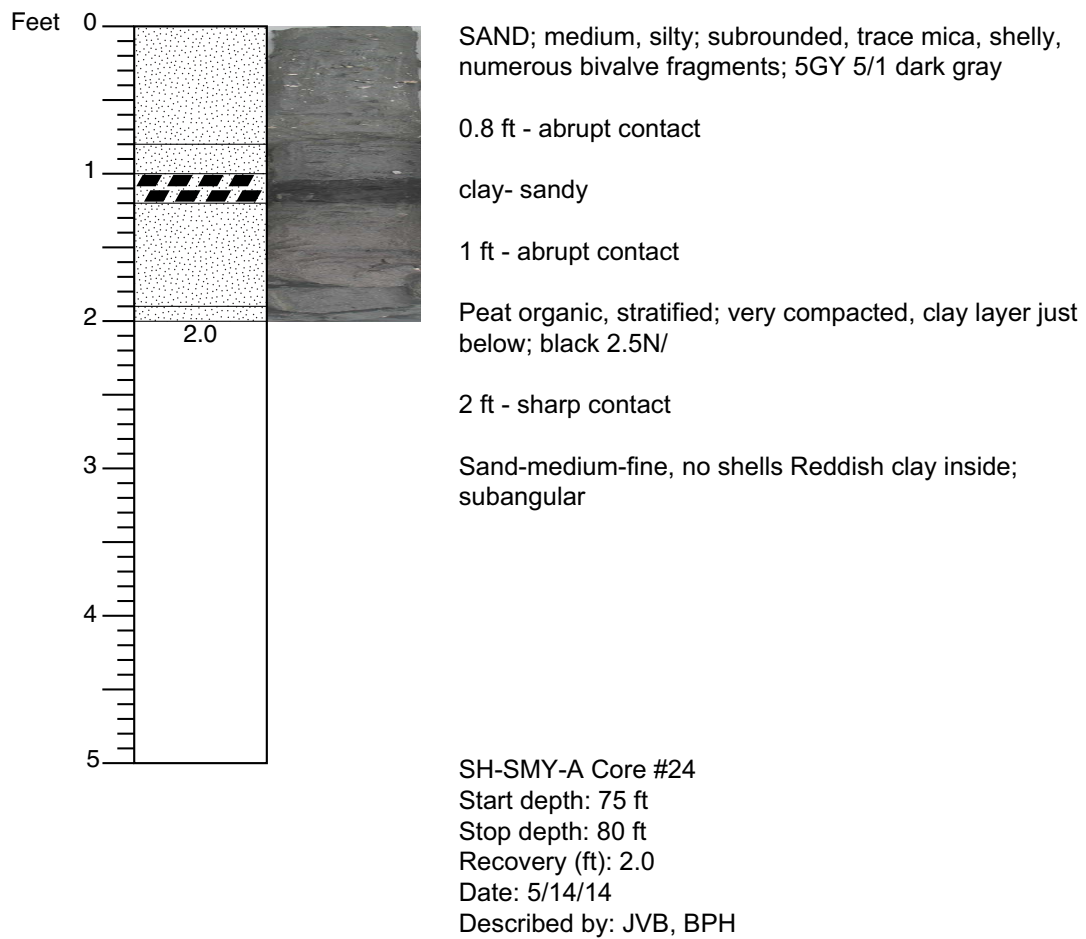


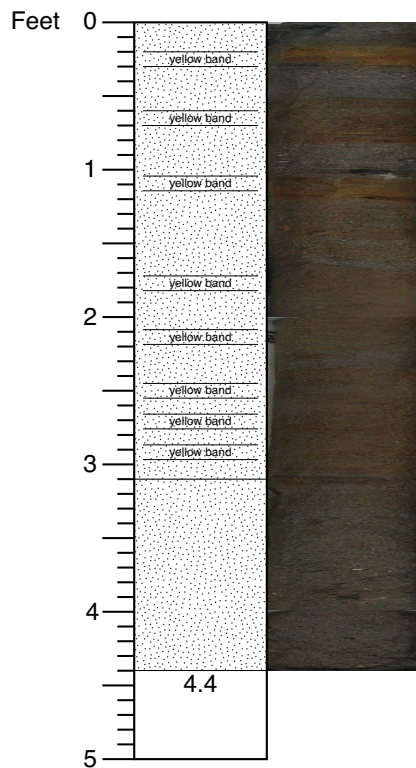
SAND; fine to very fine, silty, muddy; slight micaceous, shelly, razor clam, Hydrobia (a gastropod) are both intertidal; bioturbated, numerous organics on outside; overall less silt and clay down core; homogenous core; possible intertidal environment, upper 0.2 ft is coarser, firm and has an abrupt basal contact, not sure if caved or real

SH-SMY-A Core #22
Start depth: 66 ft
Stop depth: 70 ft
Recovery (ft): 2.9
Date: 5/14/14
Described by: JVB, BPH



SH-SMY-A Core #23
Start depth: 70 ft
Stop depth: 75 ft
Recovery (ft): 4.5
Date: 5/14/14
Described by: JVB, BPH



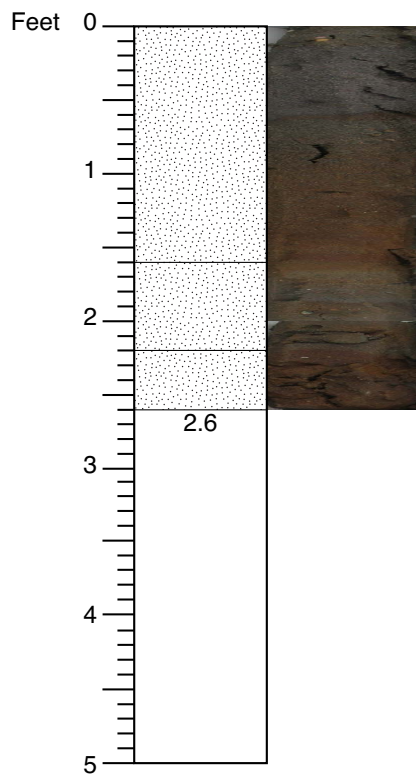


SAND; coarse; poor sorting; mostly quartz but many drift minerals in the core; contains bands of gray and yellow/red, a lens of purple at 1.6 ft; 10YR 5/8 yellowish brown, 10YR 5/1 gray

3.1 ft - Abrupt contact

SAND; coarse to very coarse, with granules; poorly sorted; trace mica

SH-SMY-A Core #25
Start depth: 80 ft
Stop depth: 85 ft
Recovery (ft): 4.4
Date: 5/14/14
Described by: JVB, BPH



SAND; medium to coarse, 90% quartz, 10% other minerals; subangular; 10YR 4/1 dark gray, 10YR 3/6 dark yellowish brown

1.6 ft - gradational contact

SAND; medium, slightly silty, similar to above but finer

SAND; medium to fine, angular, silty; yellow and red

SH-SMY-A Core #26

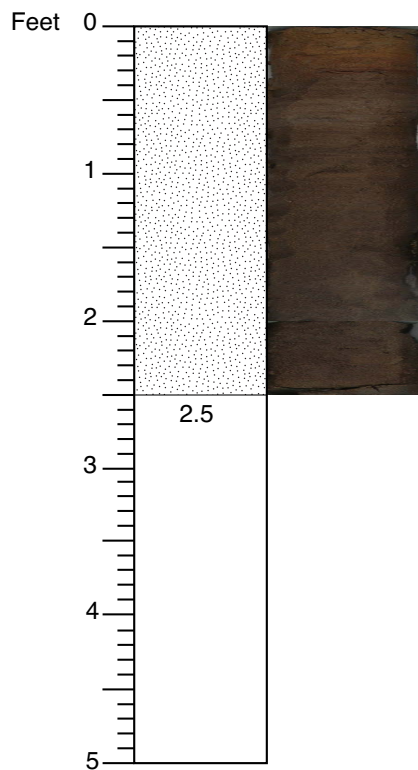
Start depth: 85 ft

Stop depth: 90 ft

Recovery (ft): 2.6

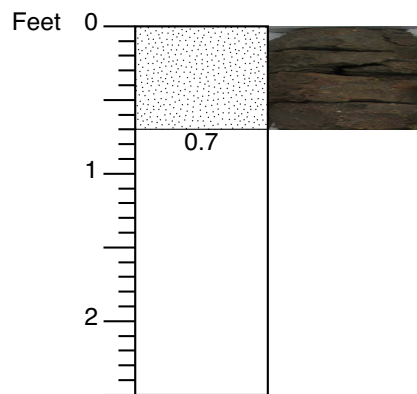
Date: 5/14/14

Described by: JVB, BPH



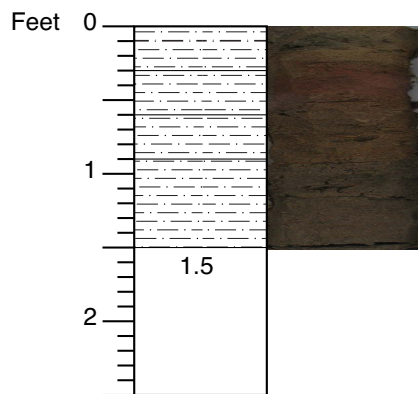
SAND; medium, well sorted, slightly silty; mostly quartz with 10% other minerals; top 0.3 ft is different color from rest;
0-0.3 ft: 10YR 3/6 dark yellowish brown, 0.3-2.5 ft: 10YR 3/3 dark brown

SH-SMY-A Core #27
Start depth: 90 ft
Stop depth: 95 ft
Recovery (ft): 2.5
Date: 5/14/14
Described by: JVB



SAND; medium to coarse, silty; sparse very coarse sand present; 10YR 4/2 dark grayish brown

SH-SMY-A Core #28
Start depth: 95 ft
Stop depth: 97.5 ft
Recovery (ft): 0.7
Date: 5/14/14
Described by: JNS, BB



SAND; silty, medium subangular; 10R 4/1 dark greenish gray

SAND; silty, medium, subangular; 10R 4/6 red

SAND; silty, medium to coarse subangular; 10YR 5/6
yellowish brown

SAND; silty, fine to medium, subangular; 5Y 4/2 olive gray

SH-SMY-A Core #29

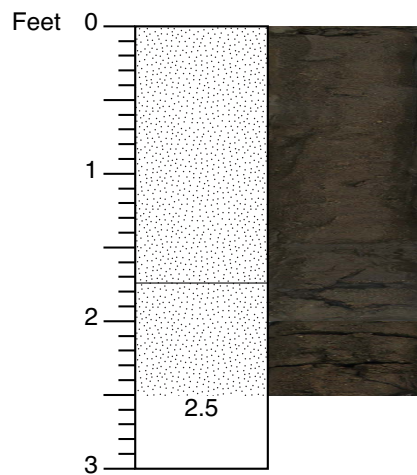
Start depth: 97.5 ft

Stop depth: 100 ft

Recovery (ft): 1.5

Date: 5/14/14

Described by: JNS, JVB, BPH



SAND; silty, fine to medium, subangular; 5Y 4/2 olive gray

1.75 ft abrupt contact

SAND; poorly sorted, slightly granular; 90% quartz; 5Y 4/2 olive gray

SH-SMY-A Core #30

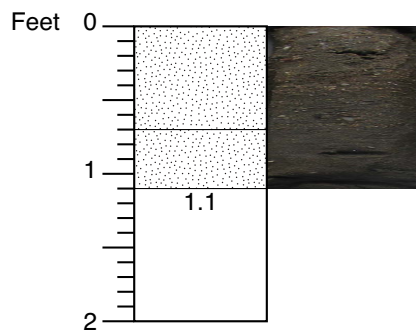
Start depth: 100 ft

Stop depth: 103 ft

Recovery (ft): 2.5

Date: 5/14/14

Described by: JNS, JVB, BPH, CJL



SAND; medium to coarse, pebbles and granules are on outside only; 90% quartz, 10% other; subangular, moderate sorting

SAND; medium, similar to above but finer; subangular, no physical structures

SH-SMY-A Core #31

Start depth: 103 ft

Stop depth: 105 ft

Recovery (ft): 1.1

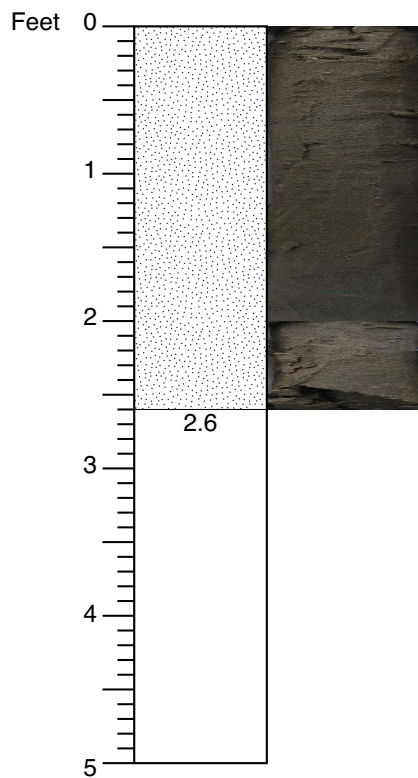
Date: 5/15/14

Described by: JVB, NSK, KJL, SJG



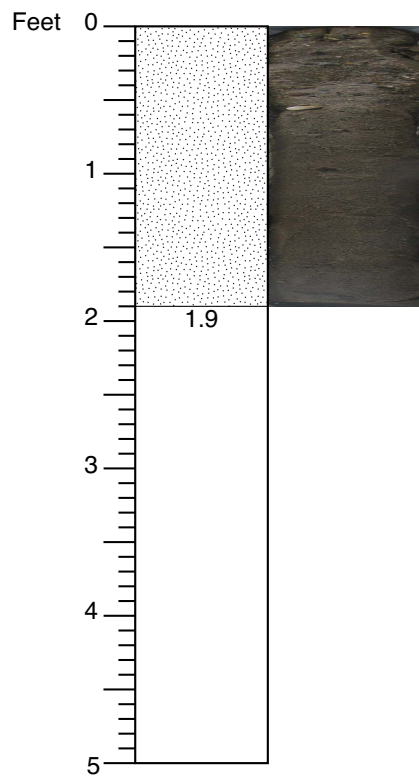
SAND, medium grain size, subangular some granules and pebbles; similar in composition to previous core; 90% quartz, 10% other; 5Y 4/2

SH-SMY-A Core #32
Start depth: 105 ft
Stop depth: 110 ft
Recovery (ft): 3.7
Date: 5/15/14
Described by: JVB, NSK, SJG, KJL



SAND, medium, slightly finer towards base of core subangular, same in composition as last core, 90% quartz, 10% other; 5Y 4/2

SH-SMY-A Core #33
Start depth: 110 ft
Stop depth: 115 ft
Recovery (ft): 2.6
Date: 5/15/14
Described by: JVB, NSK, SJG, KJL



SAND; medium; sub angular; 90% quartz; 5Y 4/2

SH-SMY-A Core #34

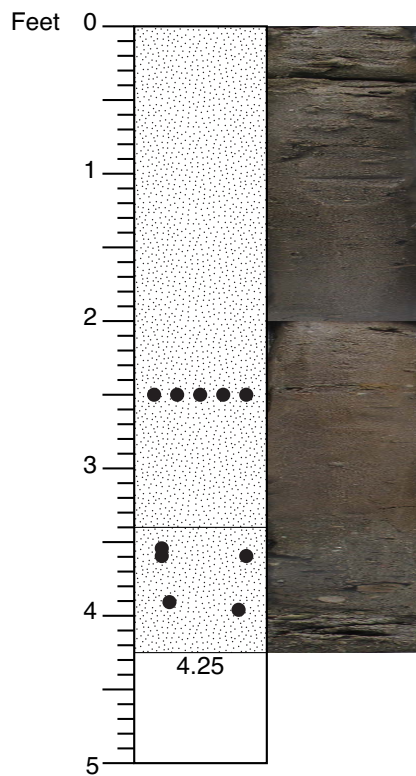
Start depth: 115 ft

Stop depth: 120 ft

Recovery (ft): 1.9

Date: 5/15/14

Described by: JVB, NSK, SJG, KJC

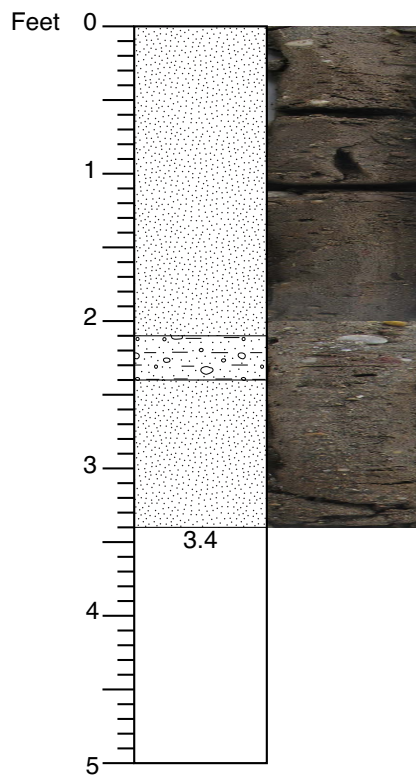


SAND; medium, subangular; same composition as last core; 90% quartz, 10% other; coarser pebble bed ~2.5 cm thick at 2.5 ft; 5Y 4/2

3.4 ft - Gradational contact between medium sand and coarse sand with granules over ~0.5 in.

SAND; medium to coarse; subrounded, granules and pebbles present; same composition as above

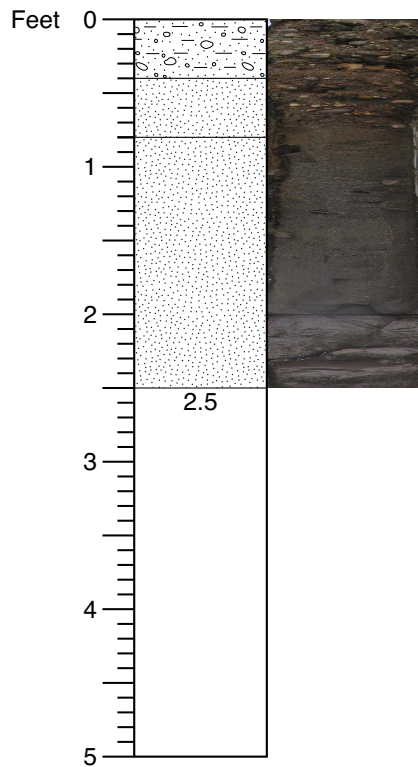
SH-SMY-A Core #35
Start depth: 120 ft
Stop depth: 125 ft
Recovery (ft): 4.25
Date: 5/15/14
Described by: JVB, NSK, SJG, KJL



SAND, medium, subangular with granules and pebbles; coarsening downward toward a sandy gravel bed from 2.1-2.4 ft, same composition as previous; top two units may constitute a channel

SAND; medium to coarse with granules and pebbles; same composition as above

SH-SMY-A Core #36
Start depth: 125 ft
Stop depth: 130 ft
Recovery (ft): 3.4
Date: 5/15/14
Described by: JVB, NSK, RJG, KJL



SAND; gravelly, channel fill?; largest pebble: 2.5 cm; gravels comprise up to 30%; many lithologies present, gravel concentration at base of unit (base of channel)

SAND; with less gravel than above, same lithology

sharp contact with unit below

SAND; well-sorted, medium, subrounded, 98% quartz, 2% other; fining downward; 7.5YR 4/1

SH-SMY-A Core #37

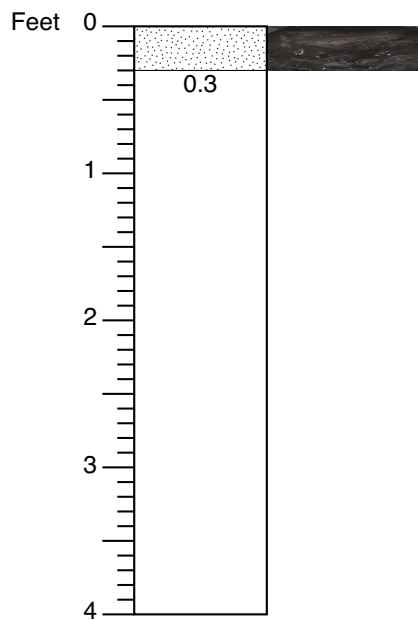
Start depth: 130 ft

Stop depth: 135 ft

Recovery (ft): 2.5

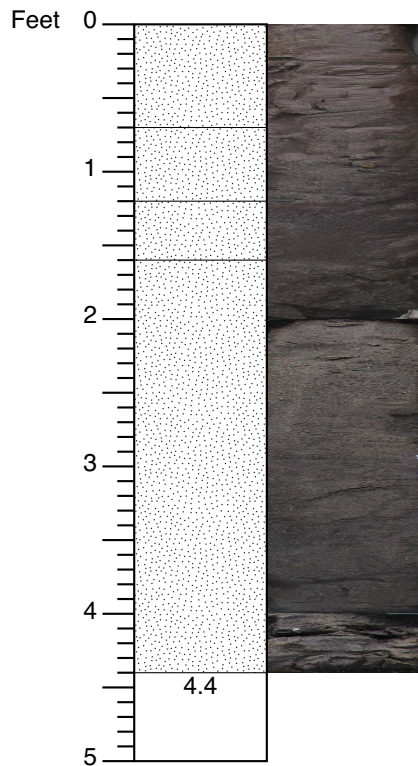
Date: 5/15/14

Described by: JVB, NSK, RJG, KJL



SAND; fine to very fine, silty; ~97% quartz, 3% other, with some pieces of organic matter (lignite)

SH-SMY-A Core #38
Start depth: 135 ft
Stop depth: 139 ft
Recovery (ft): 0.3
Date: 5/15/14
Described by: JVB, NSK, RJG, KJL



SAND; fine to very fine sand, heavy mineral laminations; quartz; same in composition as previous unit

SAND; medium sand

SAND; fine sand

SAND; medium; less well sorted (moderate sorting); some granules (greater concentration at ~2.3); 4.1 ft: lignite layer with coarse (~2-3 cm) pieces; beach?; 7.5 YR 3/1

SH-SMY-A Core #39

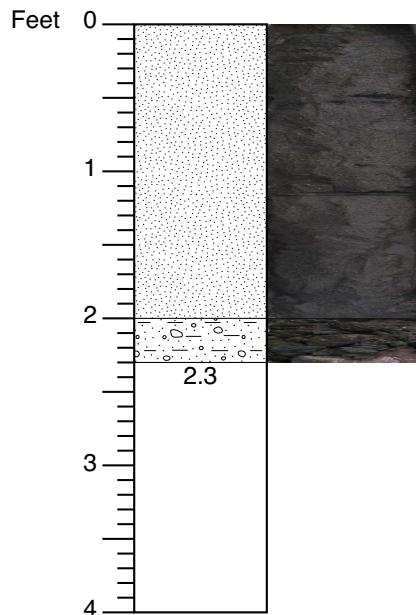
Start depth: 139 ft

Stop depth: 144 ft

Recovery (ft): 4.4

Date: 5/15/14

Described by: JVB, NSK, SJG, KJL



SAND; medium to coarse; mostly quartz, subrounded; lignite layer at 0.6 ft

finer downward with change/contact occurring around 1.2 ft

SAND; fine sand, ~95% quartz

1.8-2 ft - grades back up to medium SAND

2-2.3 ft- gravel bed; disturbance at base in material from shoe; large clast at base caught in shoe ~5.5 cm, had to be broken out (probably a cobble) variety of lithologies in granules unknown contact between gravel and sand; Gley 4?N dark gray

SH-SMY-A Core #40

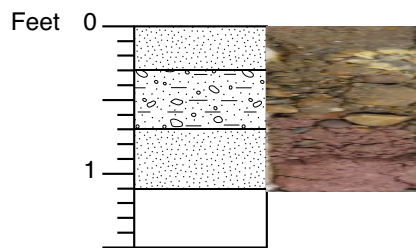
Start depth: 144 ft

Stop depth: 148 ft

Recovery (ft): 2.3

Date: 5/15/14

Described by: JVB, NSK, SJG, KJL



SAND; medium to coarse, granules, some silt; moderately sorted, angular, mostly quartz, trace of ohm; Gley 10Y 3/1, very dark greenish gray

GRAVEL; coarse sand matrix; some fines probably washed out during drilling; large pebbles up to 5 cm cut by drill; multiple lithologies; 5R 4/4 weak red

SAND; very coarse to coarse, some silt, some pebbles (assumed to be washed in); angular to subangular grains; trace of mica (chlorite); distinct red color; red sand was compacted in the shoe; 5R 4/4 weak red

SH-SMY-A Core #41

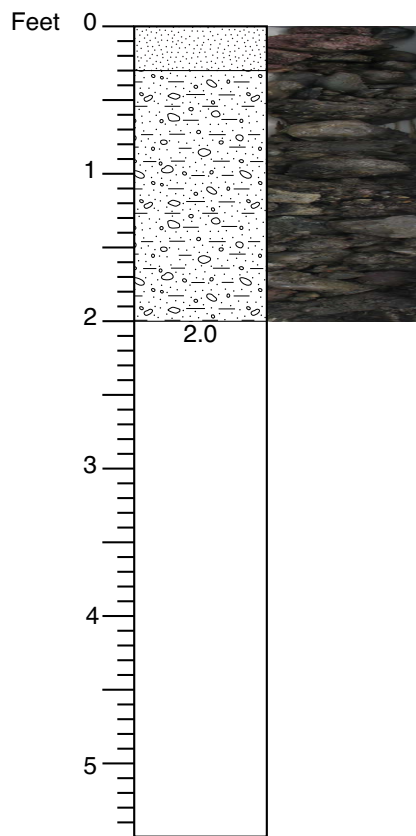
Start depth: 148 ft

Stop depth: 149.5 ft

Recovery (ft): 1.1

Date: 5/15/14

Described by: JVB, NSK, SJG, KJL



SAND; same red sand unit as above

GRAVEL; poorly sorted, fine sand matrix, varying lithologies and colors in gravel clasts; maximum clast size at least 5 cm, angular clasts

SH-SMY-A Core #42

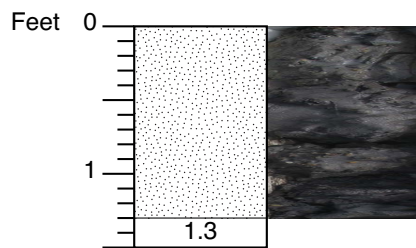
Start depth: 149.5 ft

Stop depth: 155 ft

Recovery (ft): 2

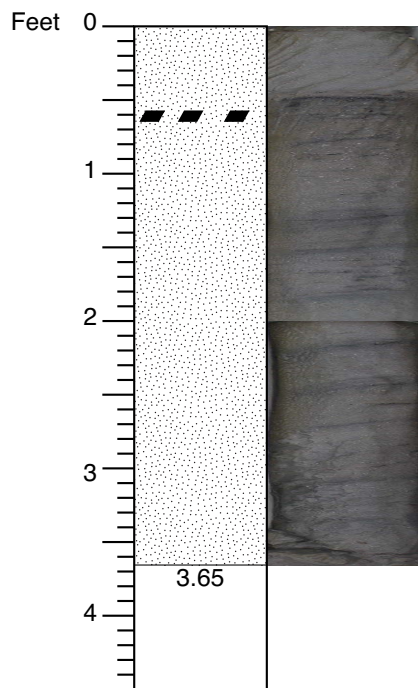
Date: 5/15/14

Described by: JVB, NSK, SJG, KJL



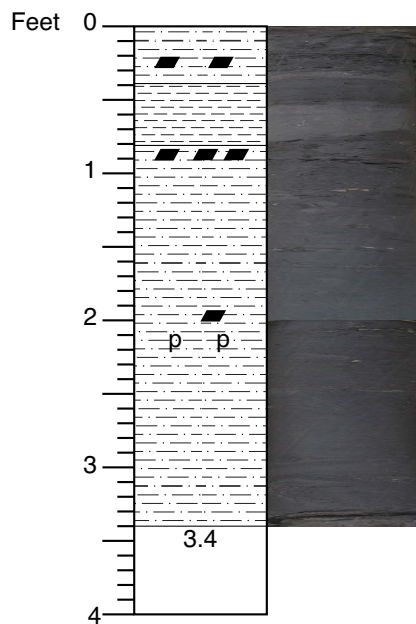
SAND; fine; well-sorted, mostly quartz, trace amounts of
ohms; ~2-3% micas, lignite bands at 0.5 ft and 1.1 ft; Gley 2
5B 5/1 bluish gray

SH-SMY-A Core #43
Start depth: 155 ft
Stop depth: 156.5 ft
Recovery (ft): 1.3
Date: 5/15/14
Described by: JVB, NSK, SJG, KJL



SAND; fine to medium, some caved pebbles; micaceous; organic- rich, cross laminae; top 0.6 ft massive; ~2% black minerals (ohm and lignite?); Delta front; N4 dark gray

SH-SMY-B Core #44
Start depth: 156.5 ft
Stop depth: 161 ft
Recovery (ft): 3.65
Date: 5/16/14
Described by: KGM



CLAY; silty, lignitic, slightly sandy

CLAY; tight

CLAY; same as at top; pyrite at 1.1 ft; slightly sandy, fining down; not laminated, burrowed; 2.1 ft pyrite layer; 2.3 ft pyrite large; 3.1 ft micaceous layer; prodelta KE?; N3 very dark gray

SH-SMY-A Core #45

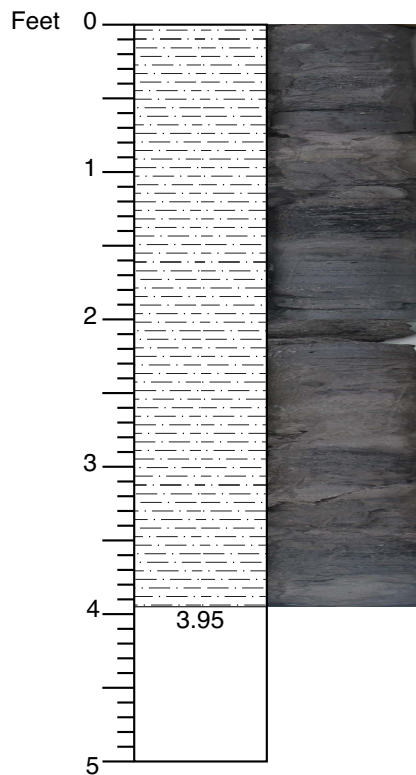
Start depth: 161 ft

Stop depth: 165 ft

Recovery (ft): 3.4

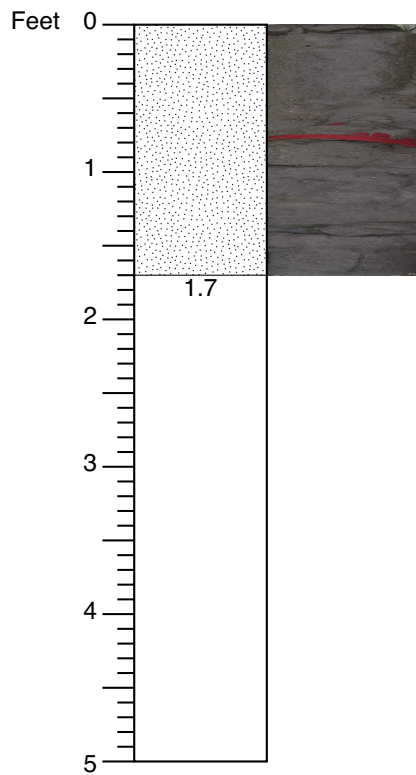
Date: 5/16/14

Described by: KGM, SJG



CLAY; silty, interbedded, with SAND, fine; lignitic, micaceous, almost 100% quartz, subrounded, laminated lignite bed 1.4-1.5 ft; laminae of sand, lignite; pyrite at 1.2 ft (not much); sandy bed at 2.4-2.8 ft; curvy laminations; N3 very dark gray

SH-SMY-A Core #46
Start depth: 165 ft
Stop depth: 170 ft
Recovery (ft): 3.95
Date: 5/16/14
Described by: KGM, SJG



SAND; medium to fine; lignitic; core catcher still in core; faint laminae at bottom 0.7 ft with lignite laminae; N4 dark gray

SH-SMY-A Core #47
Start depth: 170 ft
Stop depth: 175 ft
Recovery (ft): 1.7
Date: 5/16/14
Described by: KGM, SJG