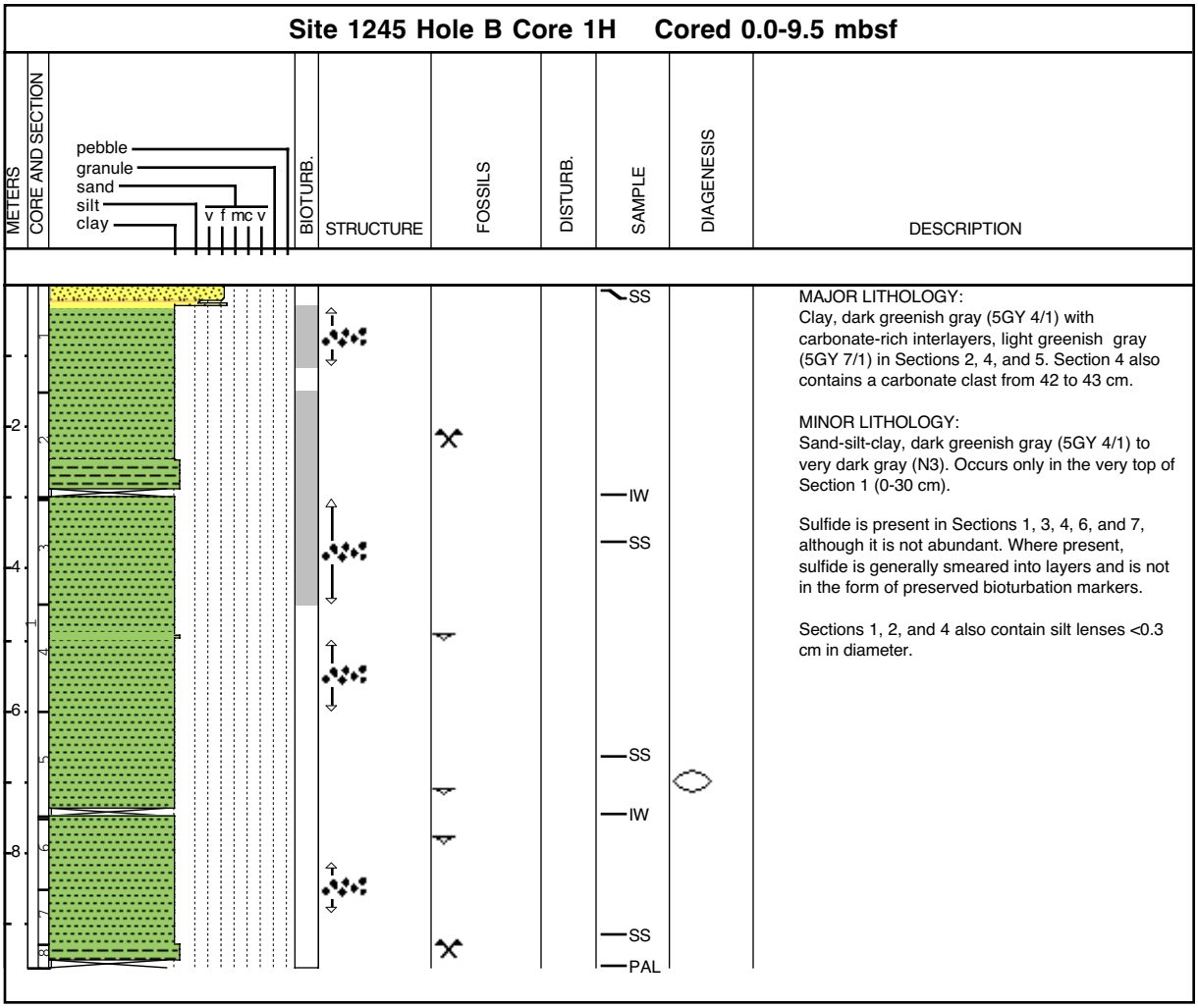
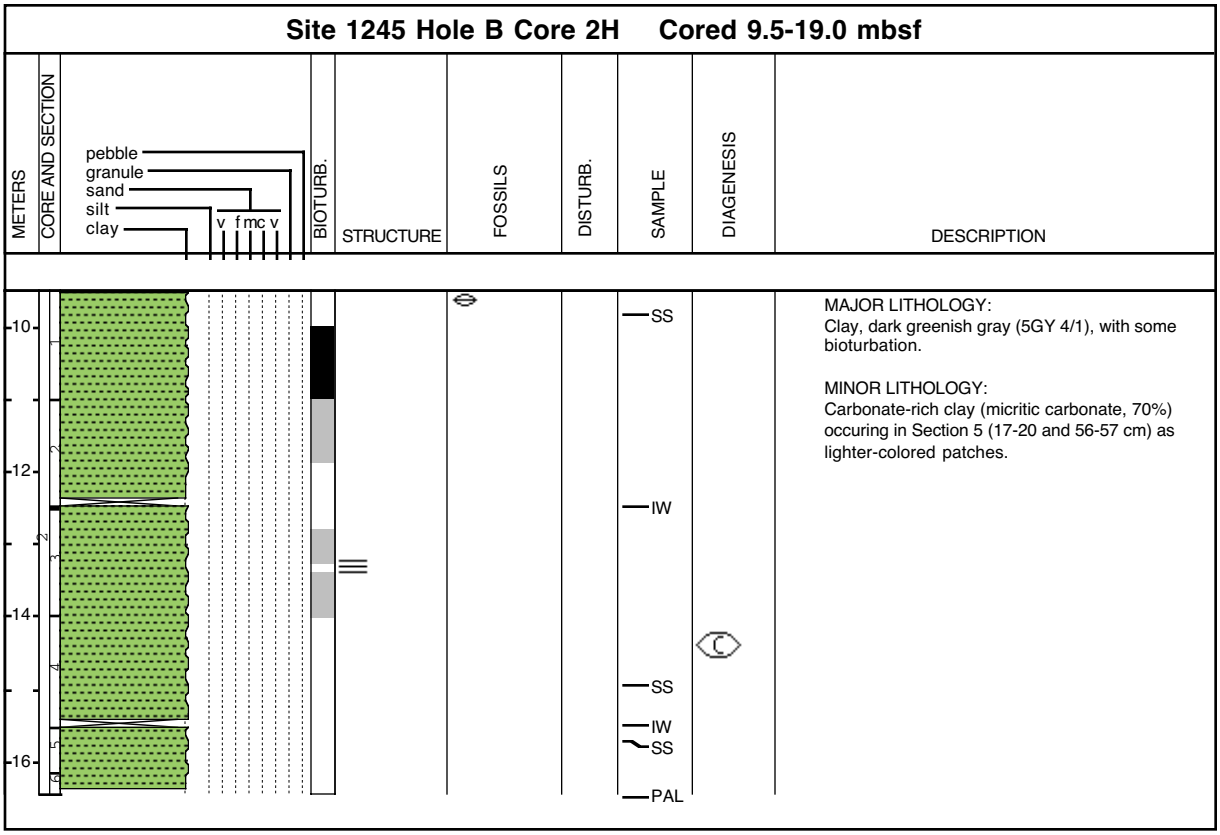
Core Photo

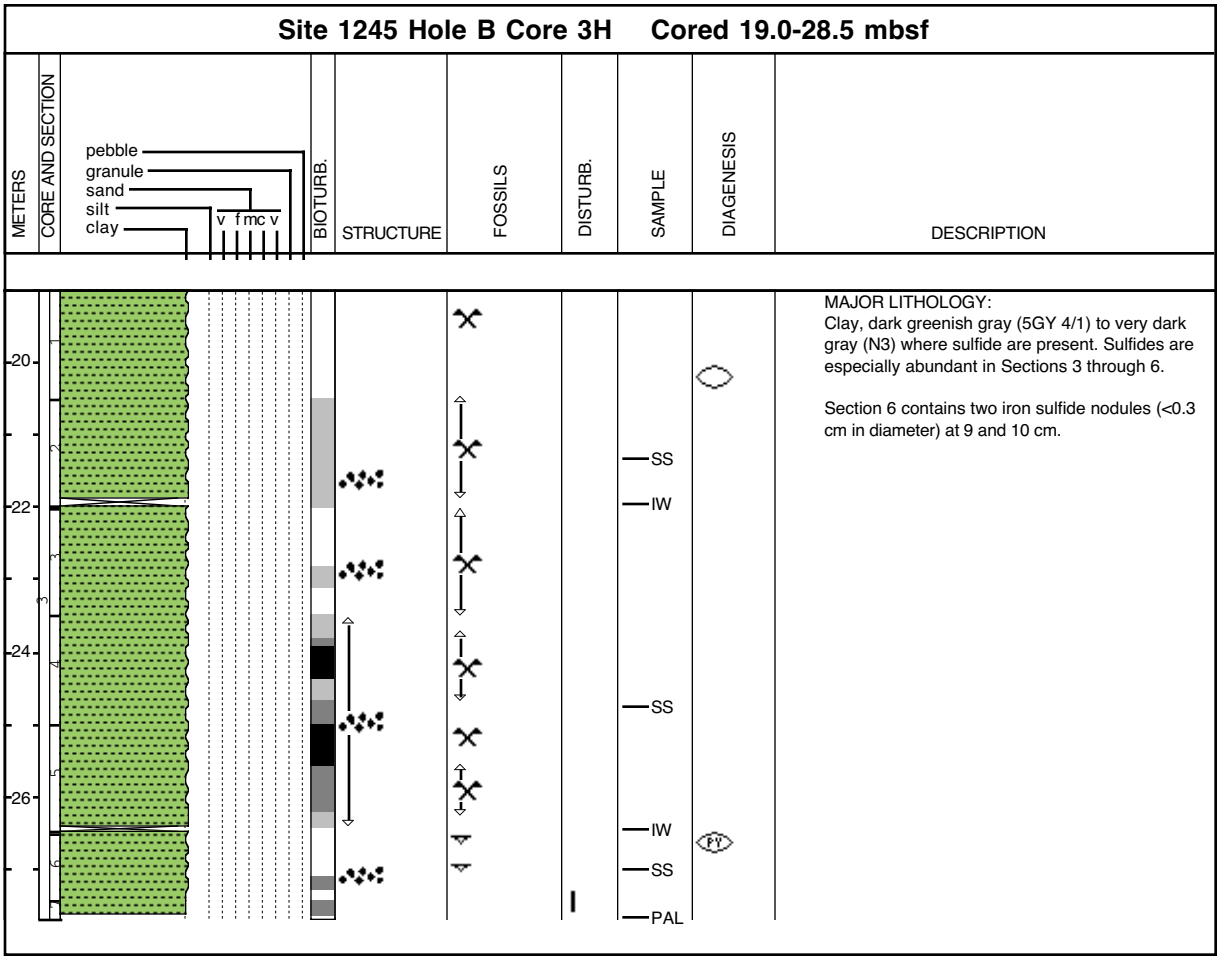


Hole A Drilled, but not cored.

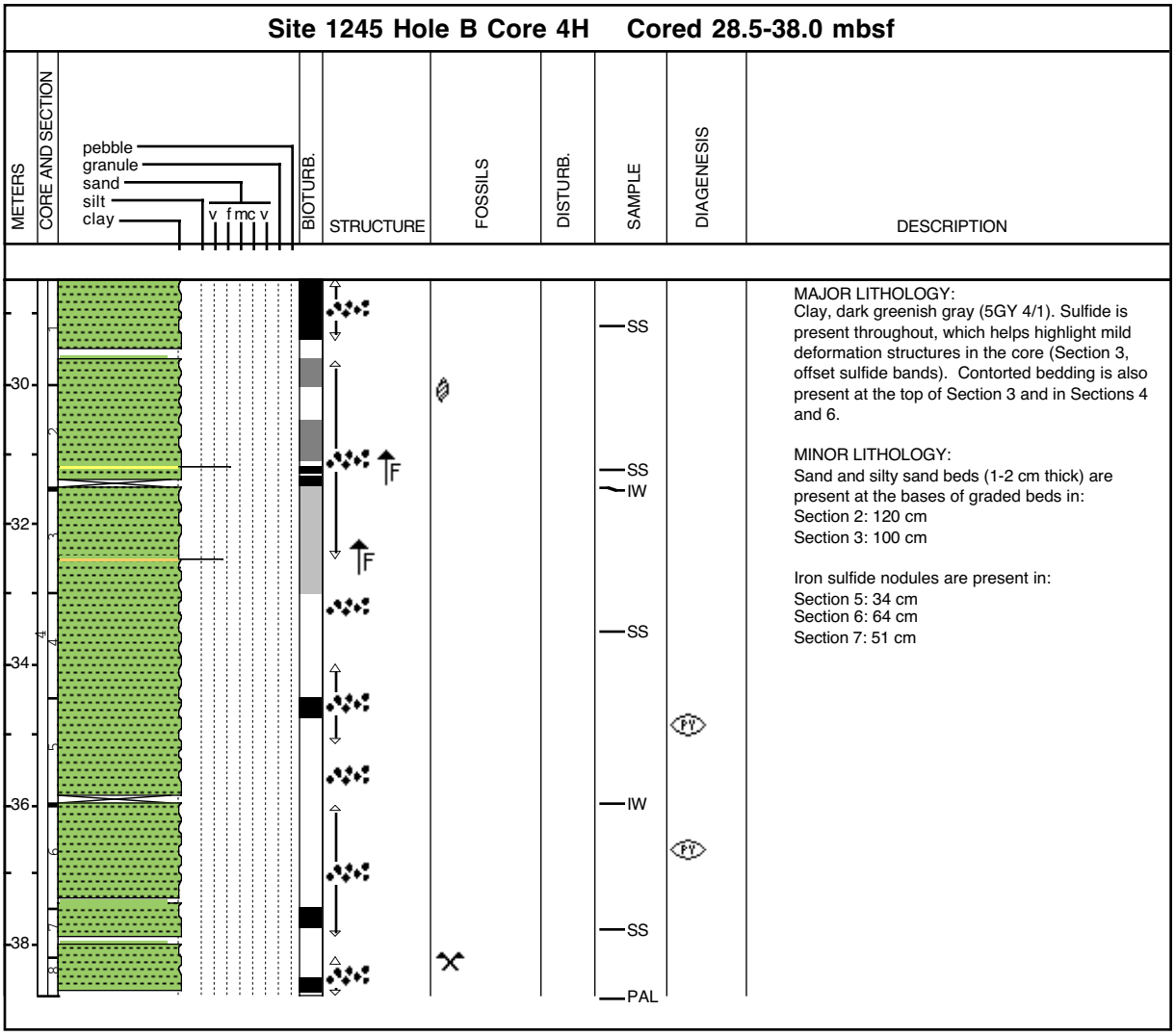
Core Photo


Site 1245 Hole B Core 2H Cored 9.5-19.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
10
12
14
16
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), with some bioturbation.
MINOR LITHOLOGY:
Carbonate-rich clay (micritic carbonate, 70%) occuring in Section 5 (17-20 and 56-57 cm) as lighter-colored patches.

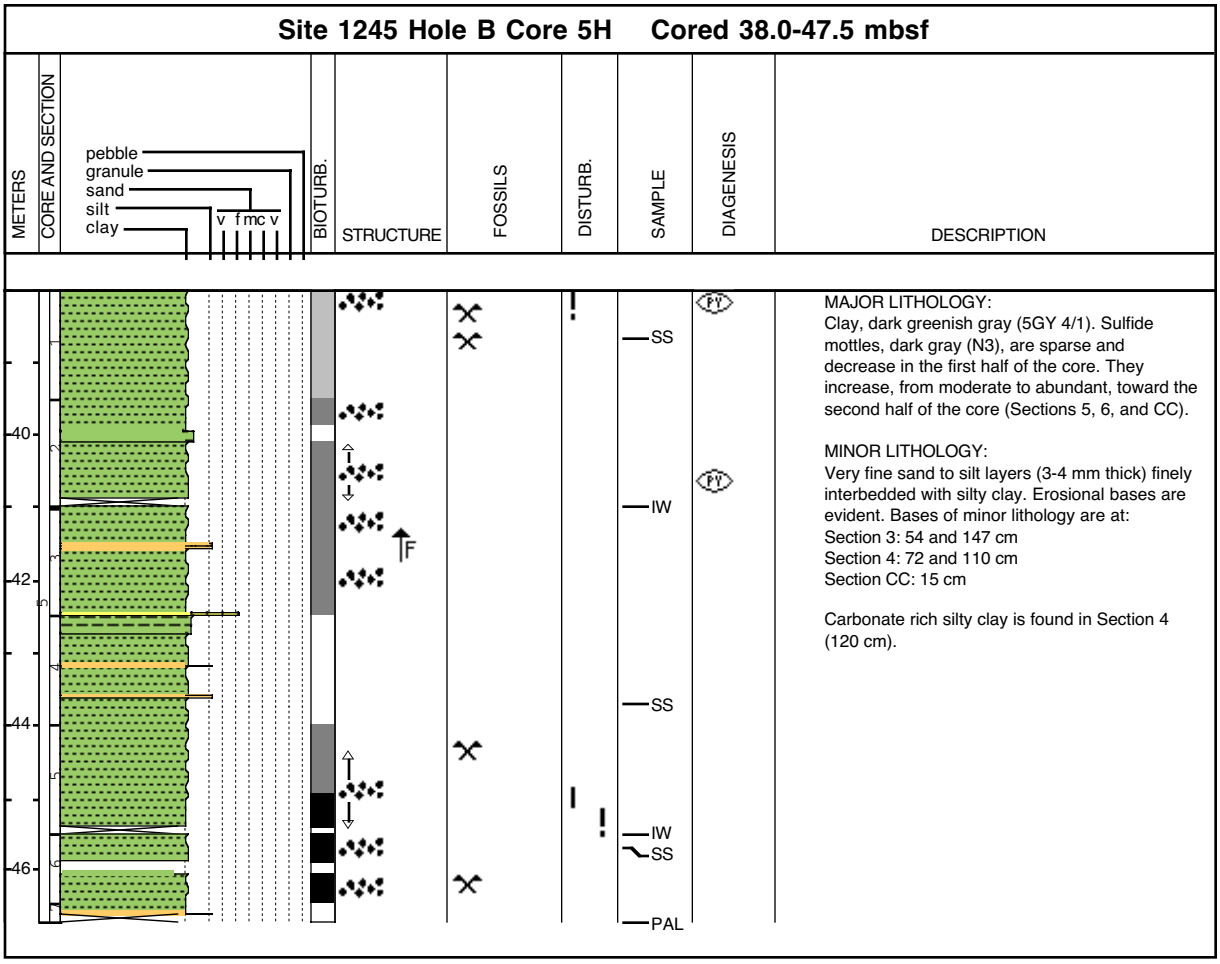
Core Photo


Site 1245 Hole B Core 3H Cored 19.0-28.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
20
22
24
26
SS
IW
SS
IW
SS
PAL
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide are present. Sulfides are especially abundant in Sections 3 through 6.
Section 6 contains two iron sulfide nodules (<0.3 cm in diameter) at 9 and 10 cm.

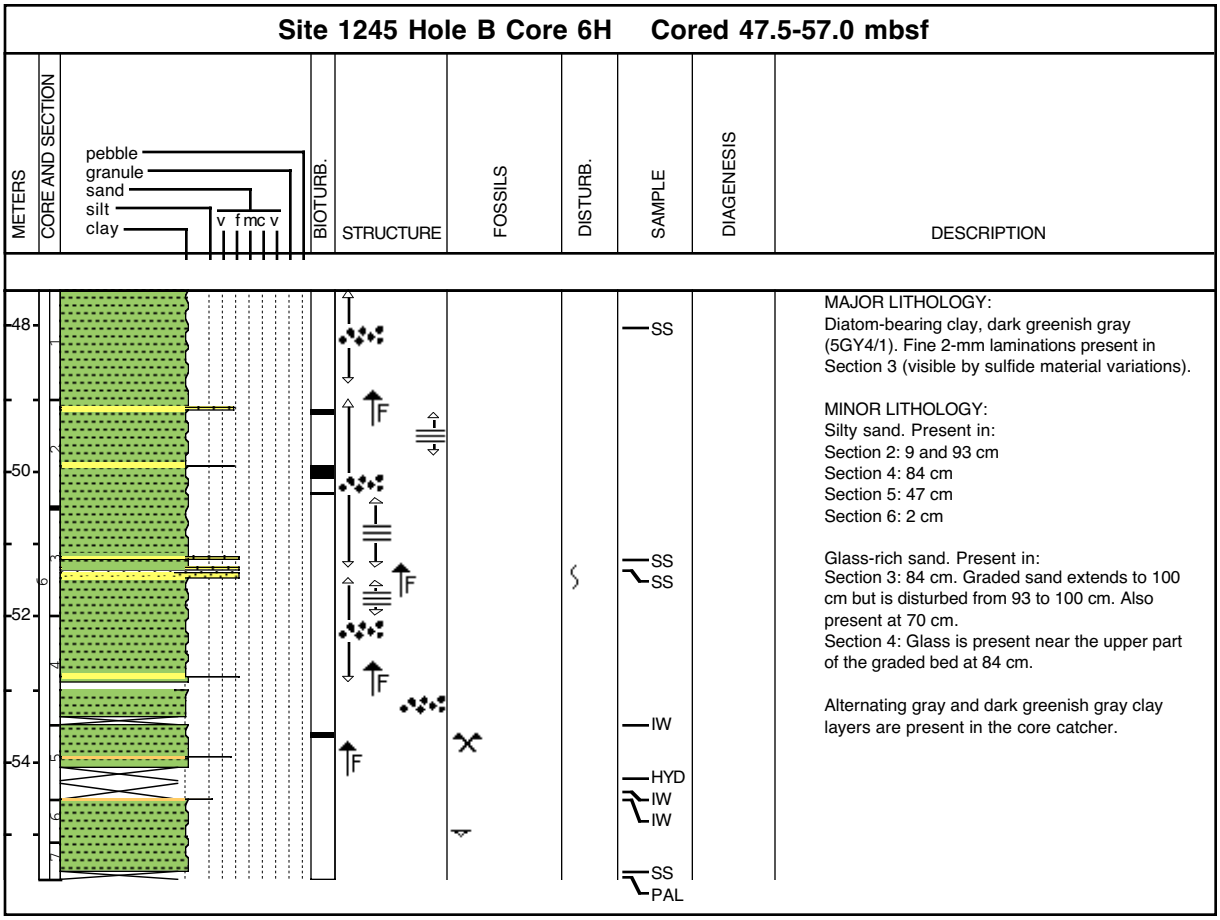
Core Photo


Site 1245 Hole B Core 4H Cored 28.5-38.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
30
32
34
36
38
SS
SS
IW
SS
IW
SS
PAL
F
F
PY
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfide is present throughout, which helps highlight mild deformation structures in the core (Section 3, offset sulfide bands). Contorted bedding is also present at the top of Section 3 and in Sections 4 and 6.
MINOR LITHOLOGY:
Sand and silty sand beds (1-2 cm thick) are present at the bases of graded beds in:
Section 2: 120 cm
Section 3: 100 cm
Iron sulfide nodules are present in:
Section 5: 34 cm
Section 6: 64 cm
Section 7: 51 cm

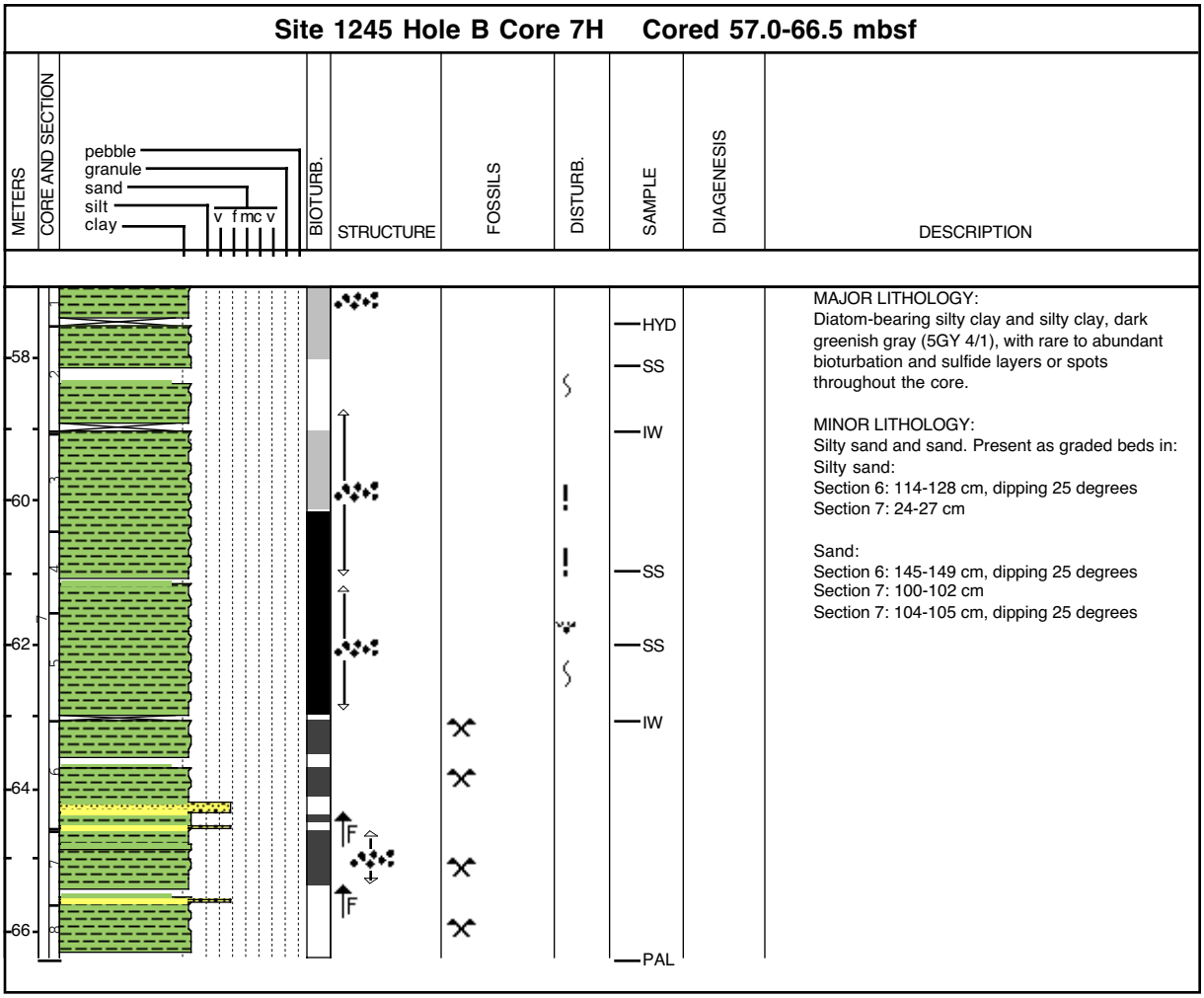
Core Photo


Site 1245 Hole B Core 5H Cored 38.0-47.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
40
42
44
46
F
SS
IW
SS
IW
SS
PAL
PY
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfide mottles, dark gray (N3), are sparse and decrease in the first half of the core. They increase, from moderate to abundant, toward the second half of the core (Sections 5, 6, and CC).
MINOR LITHOLOGY:
Very fine sand to silt layers (3-4 mm thick) finely interbedded with silty clay. Erosional bases are evident. Bases of minor lithology are at:
Section 3: 54 and 147 cm
Section 4: 72 and 110 cm
Section CC: 15 cm
Carbonate rich silty clay is found in Section 4 (120 cm).

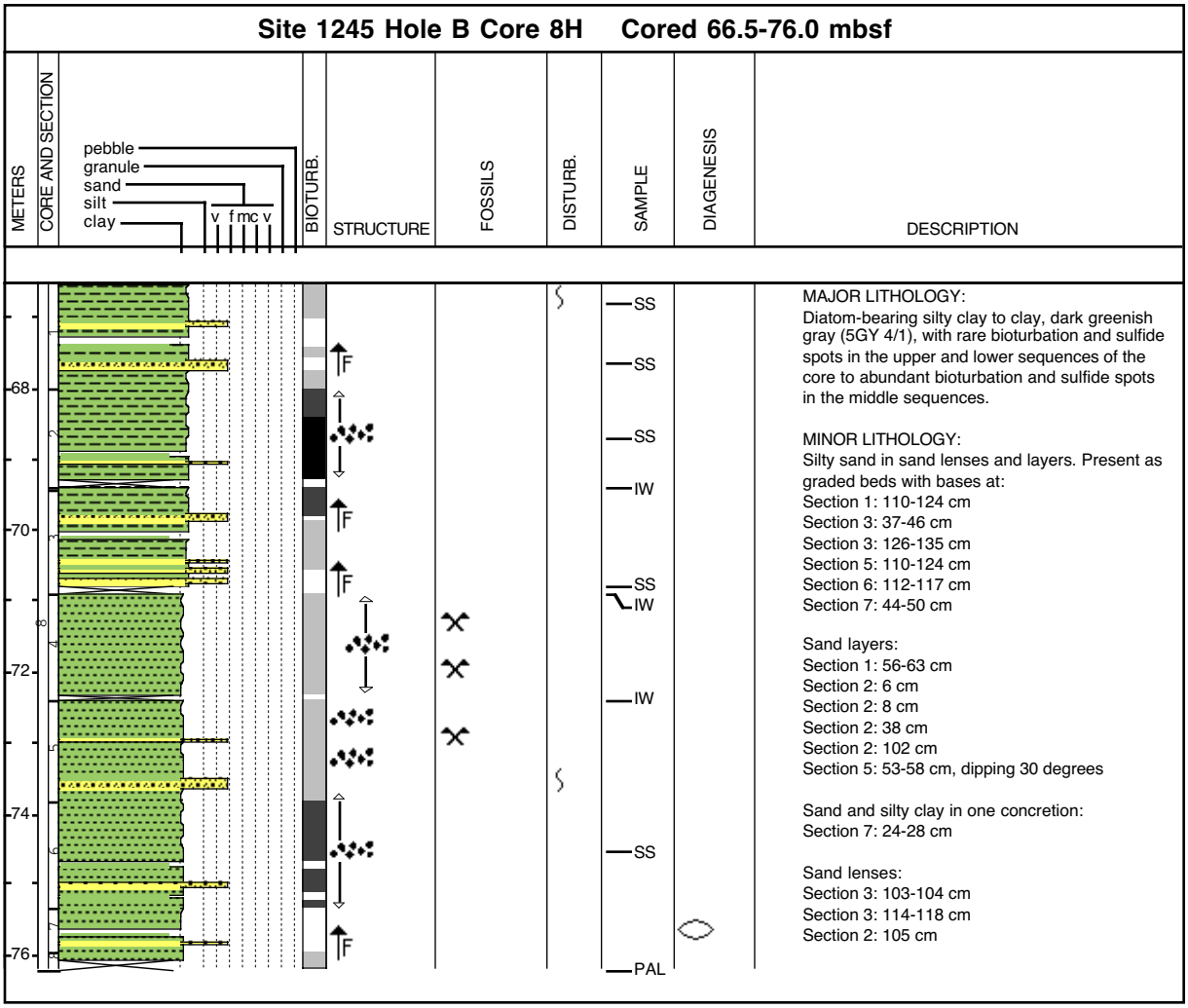
Core Photo


Site 1245 Hole B Core 6H Cored 47.5-57.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
48
50
52
54
SS
SS
SS
IW
HYD
IW
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY4/1). Fine 2-mm laminations present in Section 3 (visible by sulfide material variations).
MINOR LITHOLOGY:
Silty sand. Present in:
Section 2: 9 and 93 cm
Section 4: 84 cm
Section 5: 47 cm
Section 6: 2 cm
Glass-rich sand. Present in:
Section 3: 84 cm. Graded sand extends to 100 cm but is disturbed from 93 to 100 cm. Also present at 70 cm.
Section 4: Glass is present near the upper part of the graded bed at 84 cm.
Alternating gray and dark greenish gray clay layers are present in the core catcher.

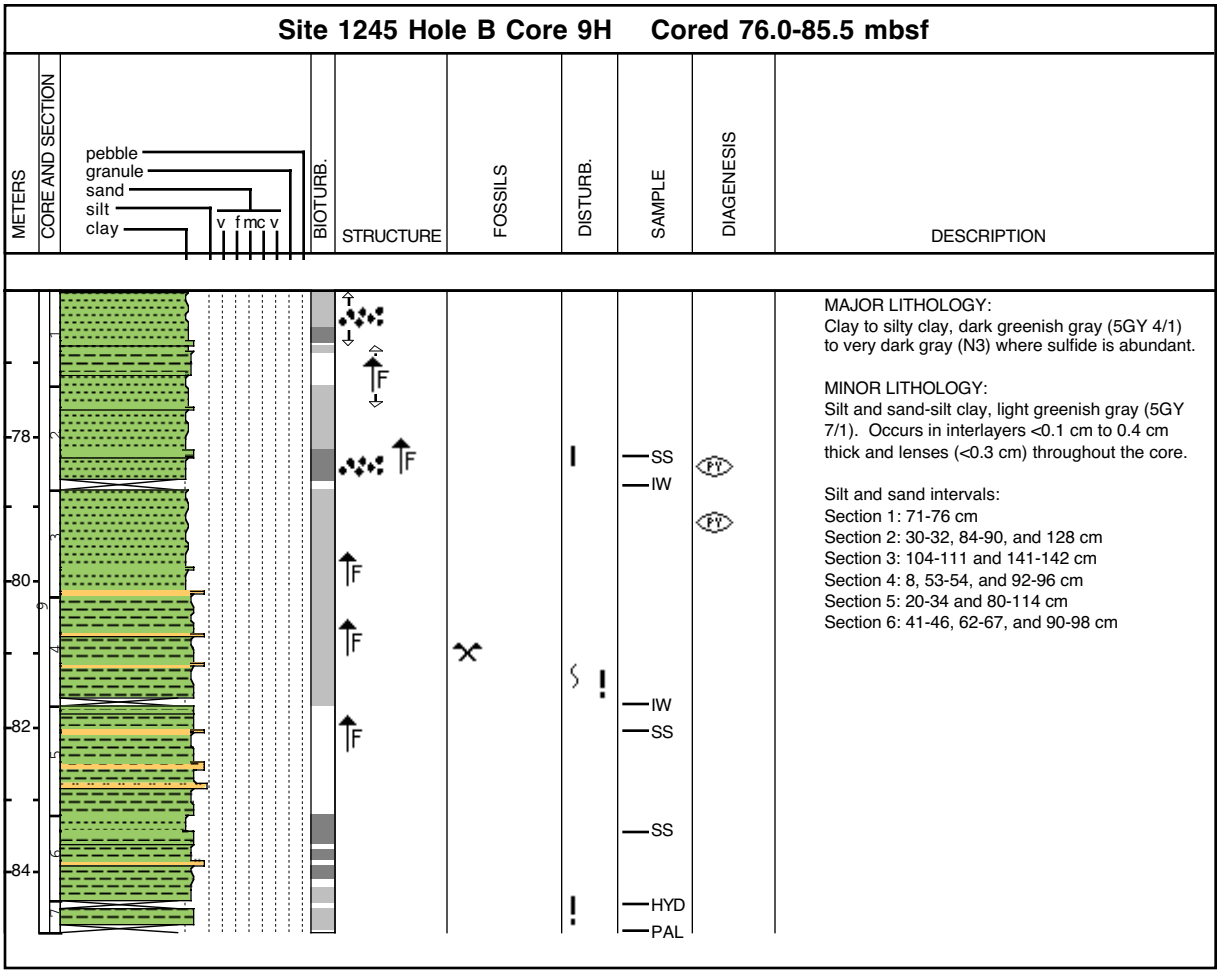
Core Photo


Site 1245 Hole B Core 7H Cored 57.0-66.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
58
60
62
64
66
HYD
SS
IW
SS
SS
IW
PAL
F
F
MAJOR LITHOLOGY:
Diatom-bearing silty clay and silty clay, dark greenish gray (5GY 4/1), with rare to abundant bioturbation and sulfide layers or spots throughout the core.
MINOR LITHOLOGY:
Silty sand and sand. Present as graded beds in:
Silty sand:
Section 6: 114-128 cm, dipping 25 degrees
Section 7: 24-27 cm
Sand:
Section 6: 145-149 cm, dipping 25 degrees
Section 7: 100-102 cm
Section 7: 104-105 cm, dipping 25 degrees

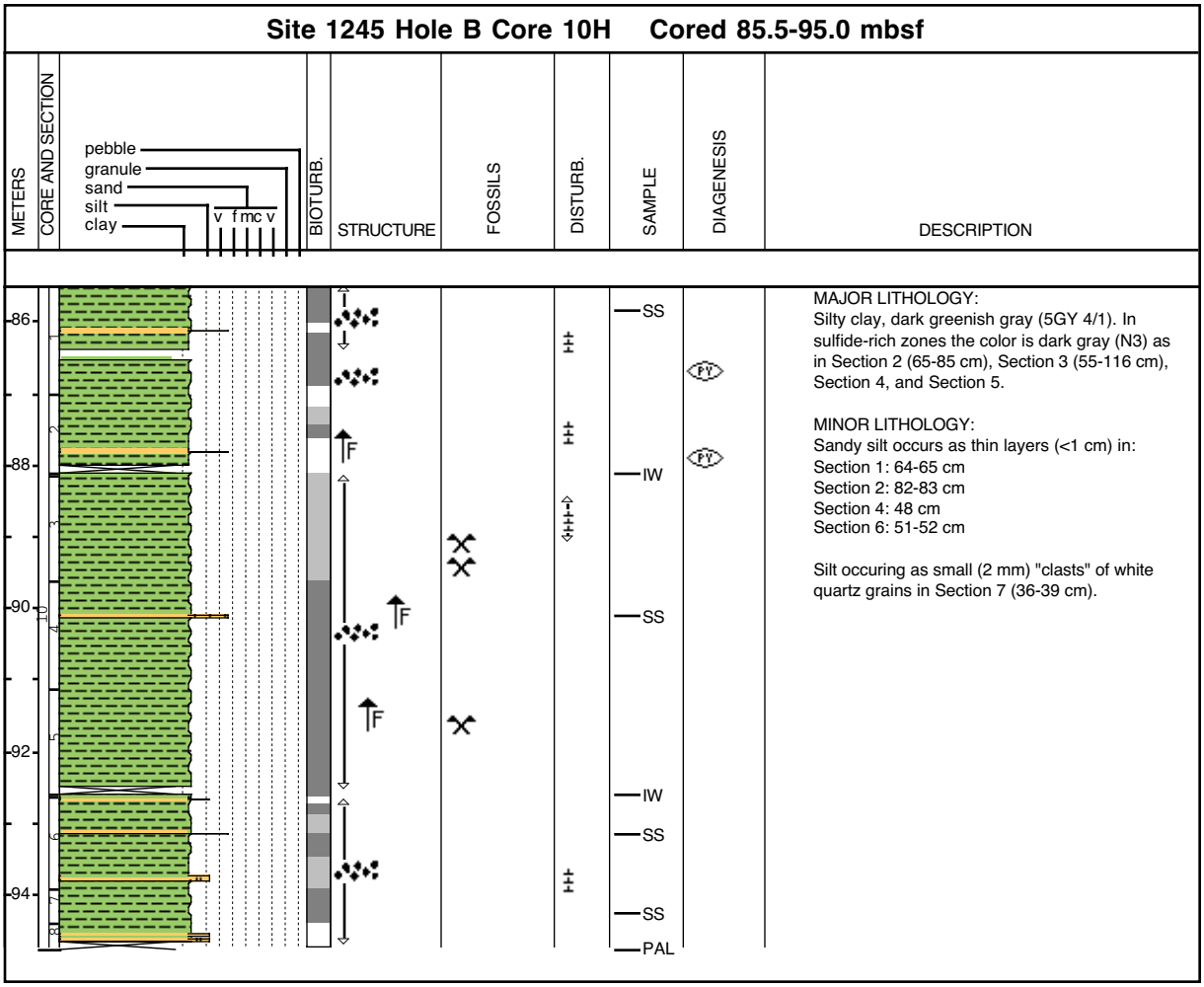
Core Photo


Site 1245 Hole B Core 8H Cored 66.5-76.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
68
70
72
74
76
SS
SS
SS
IW
SS
IW
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing silty clay to clay, dark greenish gray (5GY 4/1), with rare bioturbation and sulfide spots in the upper and lower sequences of the core to abundant bioturbation and sulfide spots in the middle sequences.
MINOR LITHOLOGY:
Silty sand in sand lenses and layers. Present as graded beds with bases at:
Section 1: 110-124 cm
Section 3: 37-46 cm
Section 3: 126-135 cm
Section 5: 110-124 cm
Section 6: 112-117 cm
Section 7: 44-50 cm
Sand layers:
Section 1: 56-63 cm
Section 2: 6 cm
Section 2: 8 cm
Section 2: 38 cm
Section 2: 102 cm
Section 5: 53-58 cm, dipping 30 degrees
Sand and silty clay in one concretion:
Section 7: 24-28 cm
Sand lenses:
Section 3: 103-104 cm
Section 3: 114-118 cm
Section 2: 105 cm

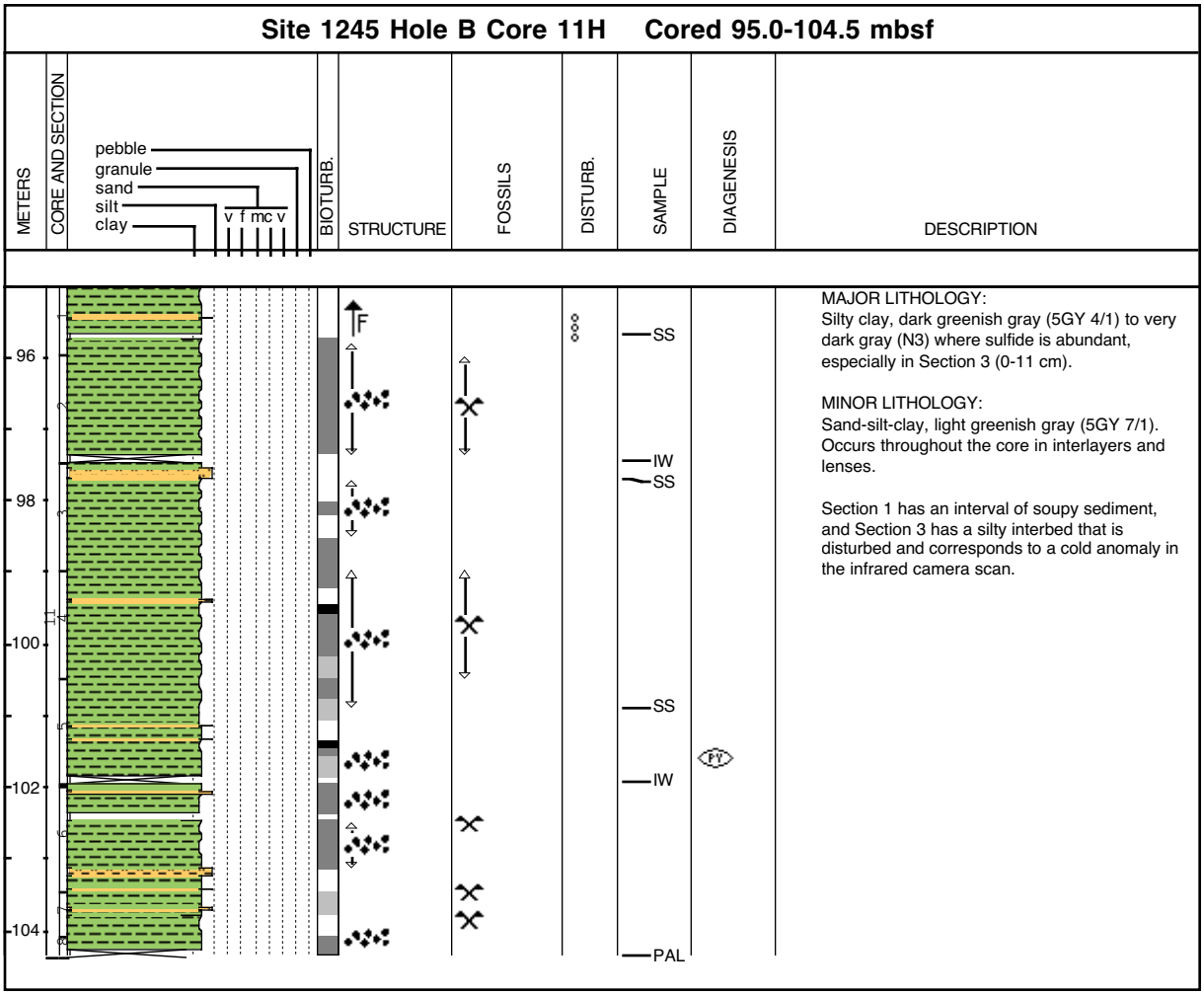
Core Photo


Site 1245 Hole B Core 9H Cored 76.0-85.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
78
80
82
84
SS
IW
IW
SS
SS
HYD
PAL
PY
PY
MAJOR LITHOLOGY:
Clay to silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide is abundant.
MINOR LITHOLOGY:
Silt and sand-silt clay, light greenish gray (5GY 7/1). Occurs in interlayers <0.1 cm to 0.4 cm thick and lenses (<0.3 cm) throughout the core.
Silt and sand intervals:
Section 1: 71-76 cm
Section 2: 30-32, 84-90, and 128 cm
Section 3: 104-111 and 141-142 cm
Section 4: 8, 53-54, and 92-96 cm
Section 5: 20-34 and 80-114 cm
Section 6: 41-46, 62-67, and 90-98 cm

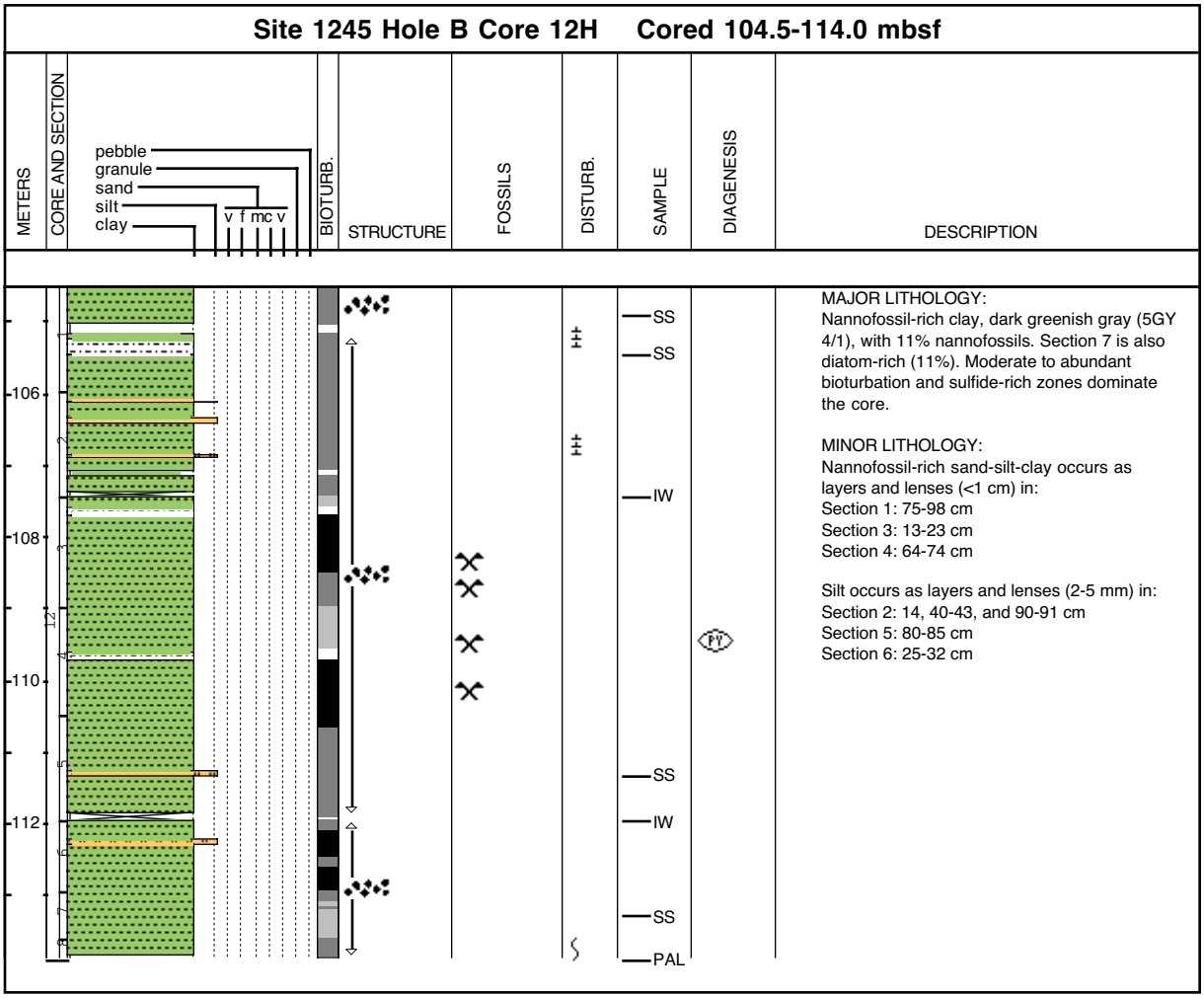
Core Photo


Site 1245 Hole B Core 10H Cored 85.5-95.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
86
88
90
92
94
SS
IW
SS
IW
SS
SS
PAL
PY
PY
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1). In sulfide-rich zones the color is dark gray (N3) as in Section 2 (65-85 cm), Section 3 (55-116 cm), Section 4, and Section 5.
MINOR LITHOLOGY:
Sandy silt occurs as thin layers (<1 cm) in:
Section 1: 64-65 cm
Section 2: 82-83 cm
Section 4: 48 cm
Section 6: 51-52 cm
Silt occuring as small (2 mm) "clasts" of white quartz grains in Section 7 (36-39 cm).

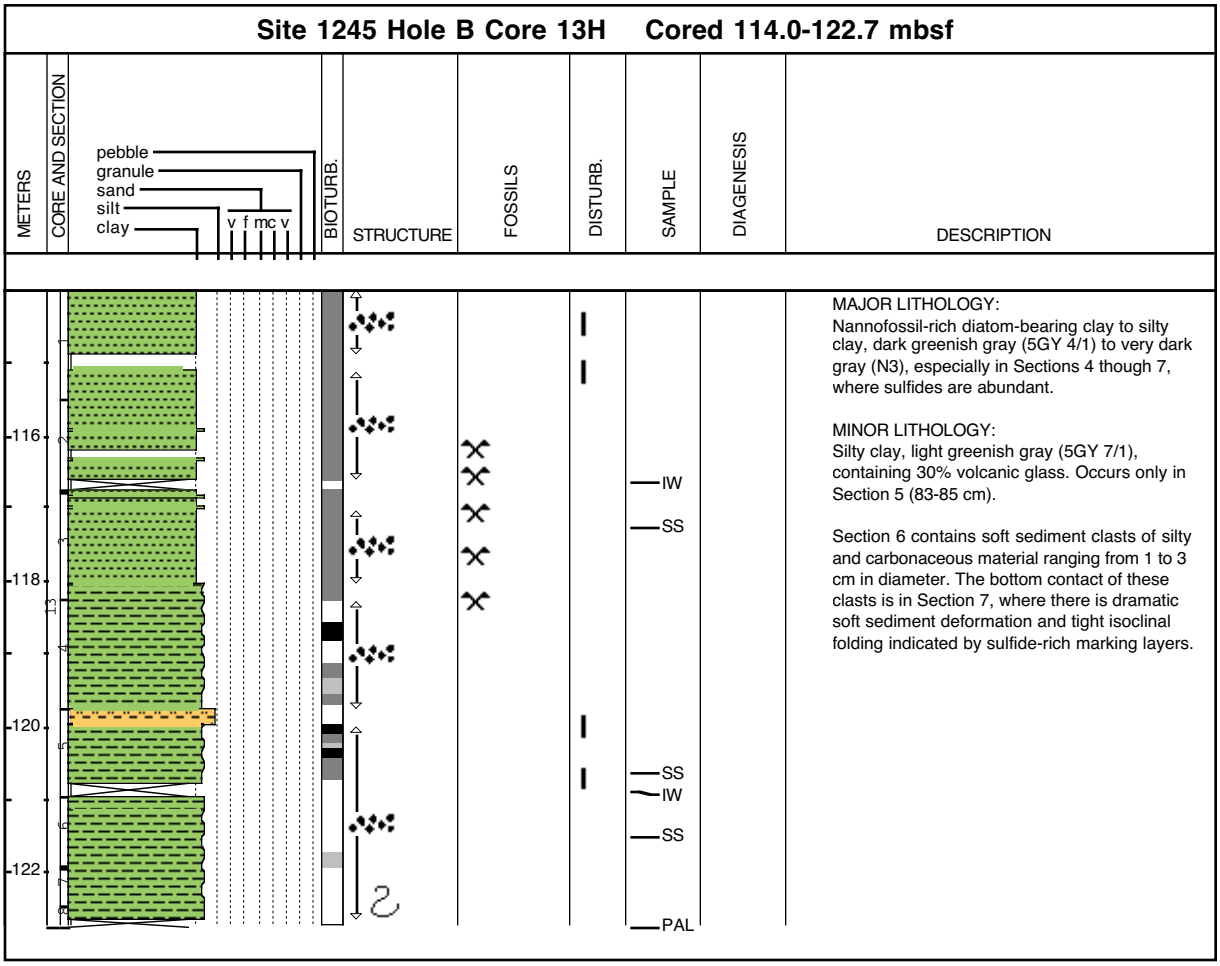
Core Photo


Site 1245 Hole B Core 11H Cored 95.0-104.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
96
98
100
102
104
SS
IW
SS
SS
IW
PAL
PY
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide is abundant, especially in Section 3 (0-11 cm).
MINOR LITHOLOGY:
Sand-silt-clay, light greenish gray (5GY 7/1). Occurs throughout the core in interlayers and lenses.
Section 1 has an interval of soupy sediment, and Section 3 has a silty interbed that is disturbed and corresponds to a cold anomaly in the infrared camera scan.

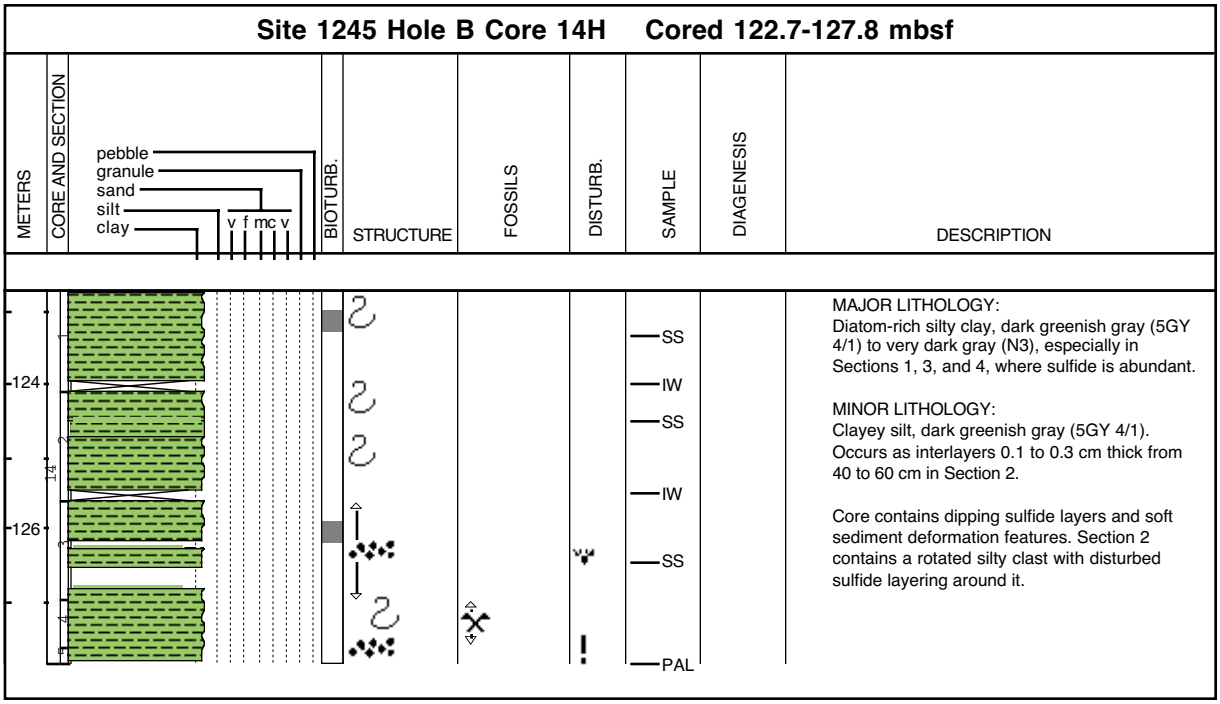
Core Photo


Site 1245 Hole B Core 12H Cored 104.5-114.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
106
108
110
112
SS
SS
IW
SS
IW
SS
PAL
PY
MAJOR LITHOLOGY:
Nannofossil-rich clay, dark greenish gray (5GY 4/1), with 11% nannofossils. Section 7 is also diatom-rich (11%). Moderate to abundant bioturbation and sulfide-rich zones dominate the core.
MINOR LITHOLOGY:
Nannofossil-rich sand-silt-clay occurs as layers and lenses (<1 cm) in:
Section 1: 75-98 cm
Section 3: 13-23 cm
Section 4: 64-74 cm
Silt occurs as layers and lenses (2-5 mm) in:
Section 2: 14, 40-43, and 90-91 cm
Section 5: 80-85 cm
Section 6: 25-32 cm

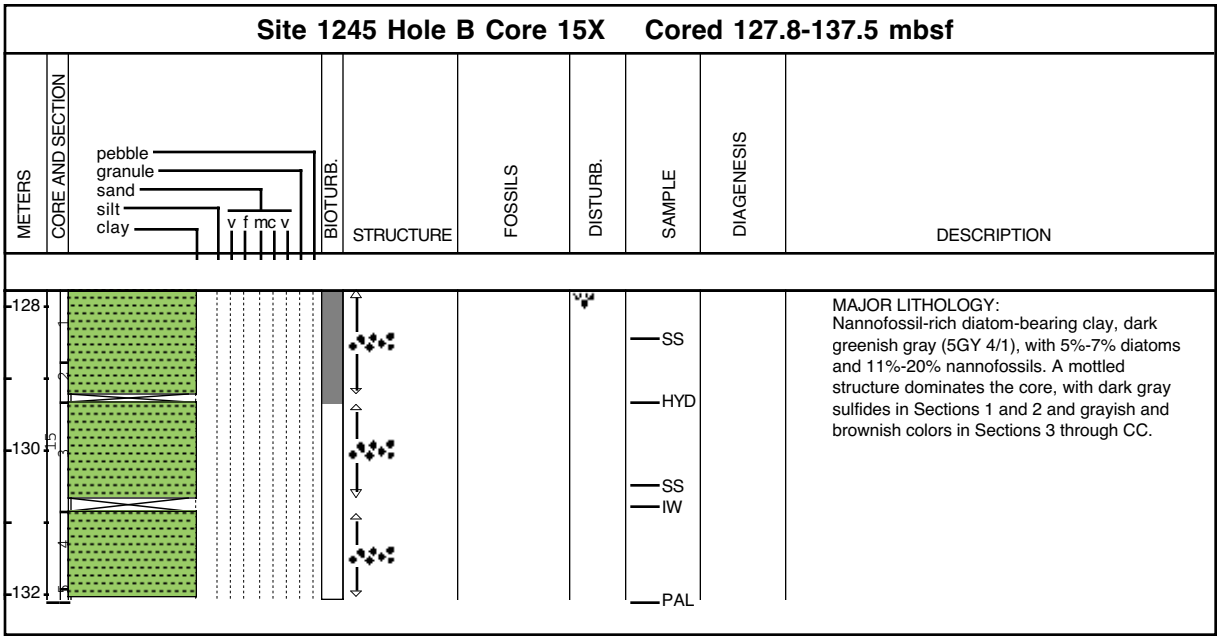
Core Photo


Site 1245 Hole B Core 13H Cored 114.0-122.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
116
118
120
122
IW
SS
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-rich diatom-bearing clay to silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3), especially in Sections 4 though 7, where sulfides are abundant.
MINOR LITHOLOGY:
Silty clay, light greenish gray (5GY 7/1), containing 30% volcanic glass. Occurs only in Section 5 (83-85 cm).
Section 6 contains soft sediment clasts of silty and carbonaceous material ranging from 1 to 3 cm in diameter. The bottom contact of these clasts is in Section 7, where there is dramatic soft sediment deformation and tight isoclinal folding indicated by sulfide-rich marking layers.

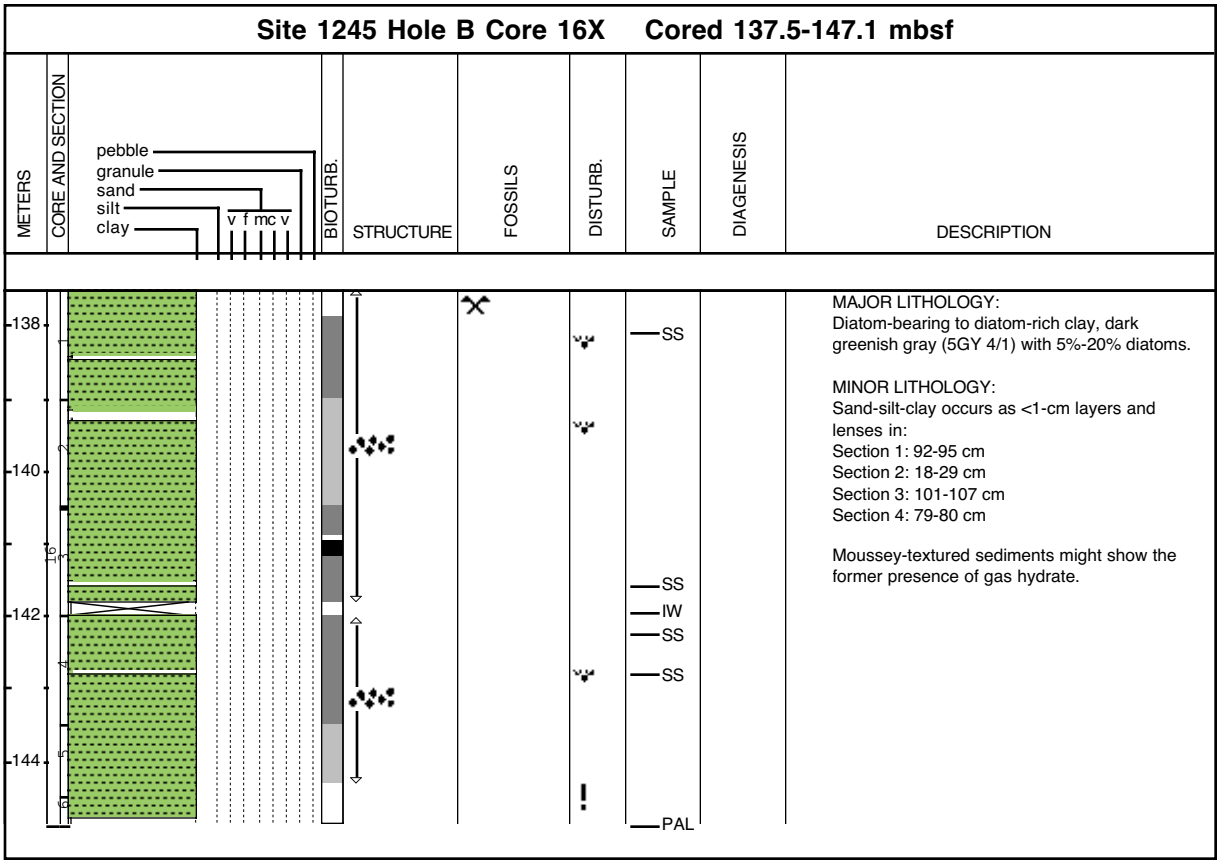
Core Photo


Site 1245 Hole B Core 14H Cored 122.7-127.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
124
126
14
1
2
3
4
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3), especially in Sections 1, 3, and 4, where sulfide is abundant.
MINOR LITHOLOGY:
Clayey silt, dark greenish gray (5GY 4/1). Occurs as interlayers 0.1 to 0.3 cm thick from 40 to 60 cm in Section 2.
Core contains dipping sulfide layers and soft sediment deformation features. Section 2 contains a rotated silty clast with disturbed sulfide layering around it.

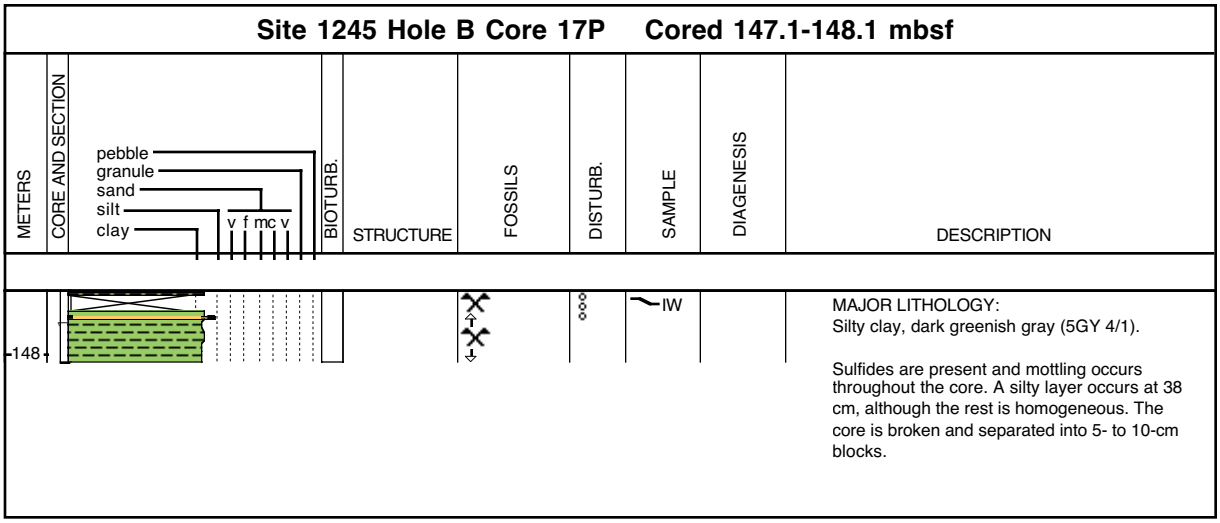
Core Photo


Site 1245 Hole B Core 15X Cored 127.8-137.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
128
130
132
1
2
3
4
5
15
SS
HYD
SS
IW
PAL
MAJOR LITHOLOGY:
Nannofossil-rich diatom-bearing clay, dark greenish gray (5GY 4/1), with 5%-7% diatoms and 11%-20% nannofossils. A mottled structure dominates the core, with dark gray sulfides in Sections 1 and 2 and grayish and brownish colors in Sections 3 through CC.

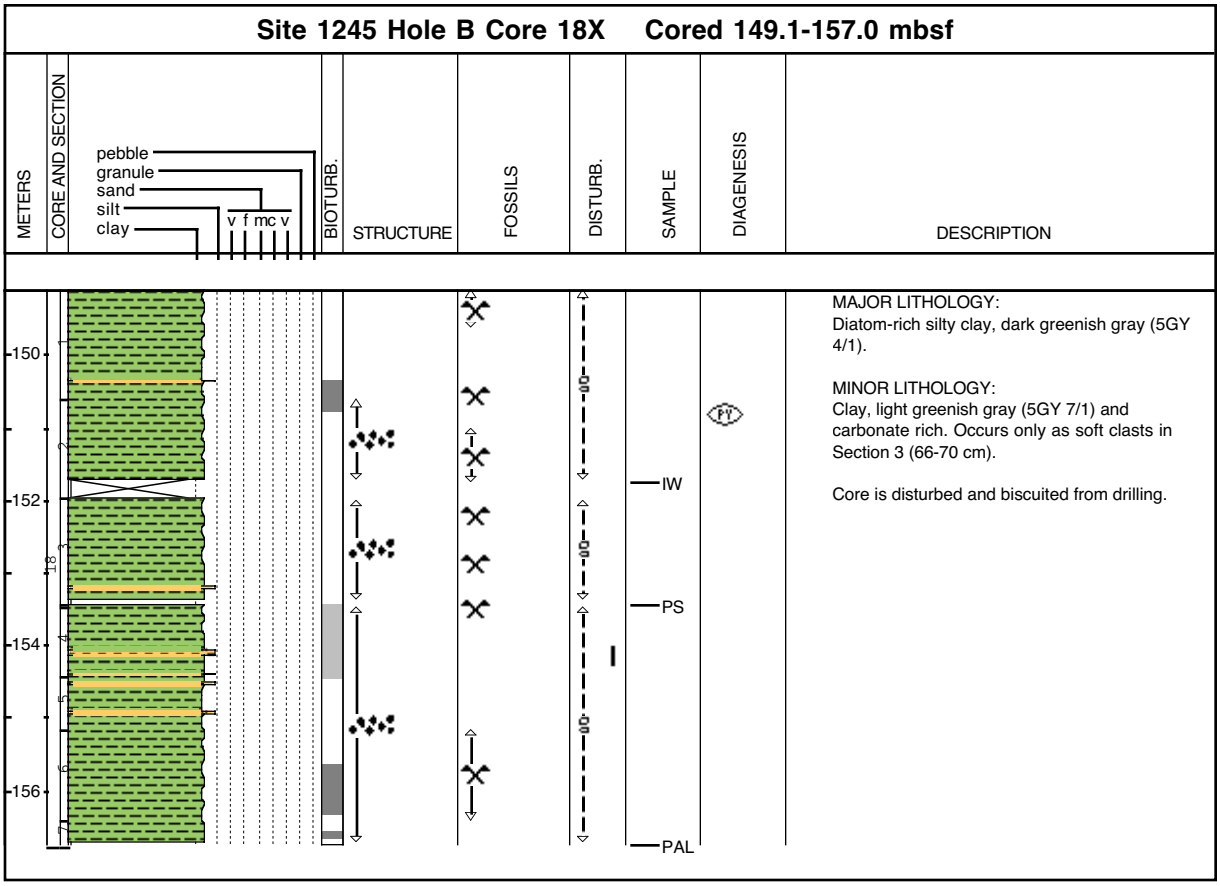
Core Photo


Site 1245 Hole B Core 16X Cored 137.5-147.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
138
140
142
144
16
1
2
3
4
5
6
SS
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing to diatom-rich clay, dark greenish gray (5GY 4/1) with 5%-20% diatoms.
MINOR LITHOLOGY:
Sand-silt-clay occurs as <1-cm layers and lenses in:
Section 1: 92-95 cm
Section 2: 18-29 cm
Section 3: 101-107 cm
Section 4: 79-80 cm
Moussey-textured sediments might show the former presence of gas hydrate.

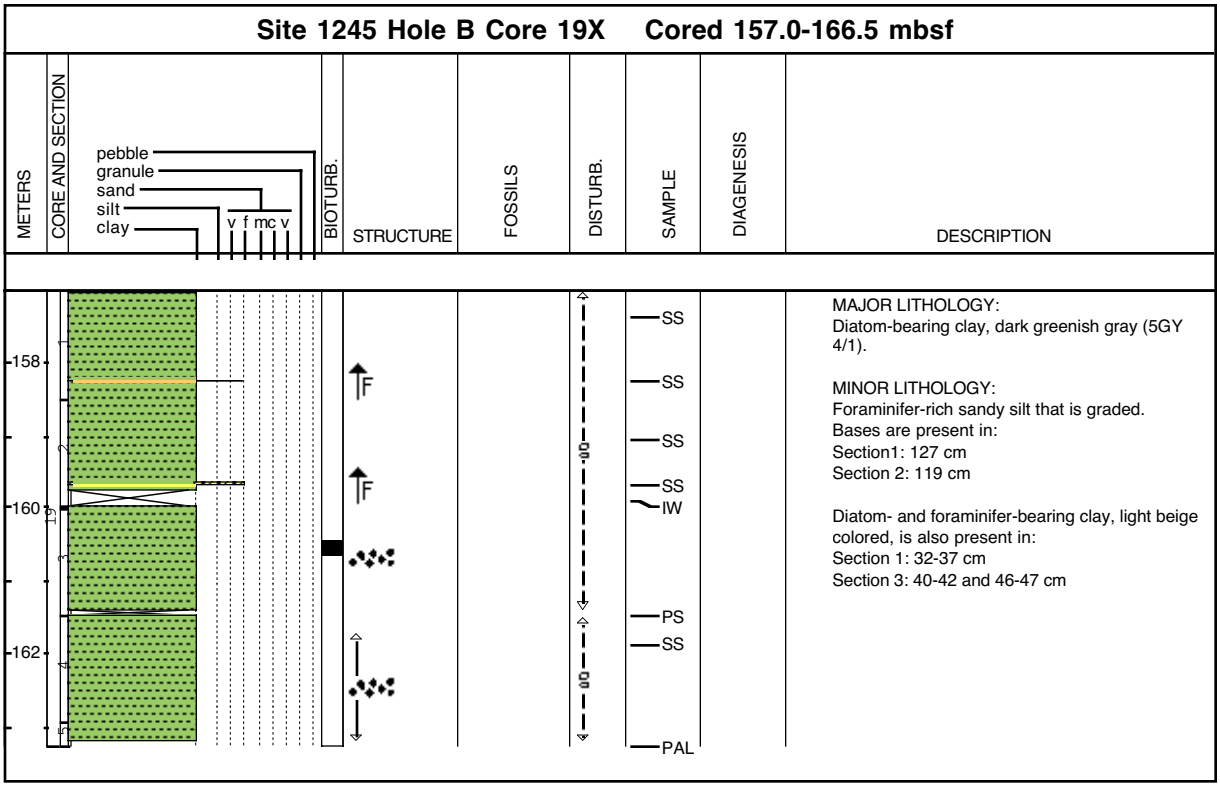
Core Photo


Site 1245 Hole B Core 17P Cored 147.1-148.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
148
IW
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1).
Sulfides are present and mottling occurs throughout the core. A silty layer occurs at 38 cm, although the rest is homogeneous. The core is broken and separated into 5- to 10-cm blocks.

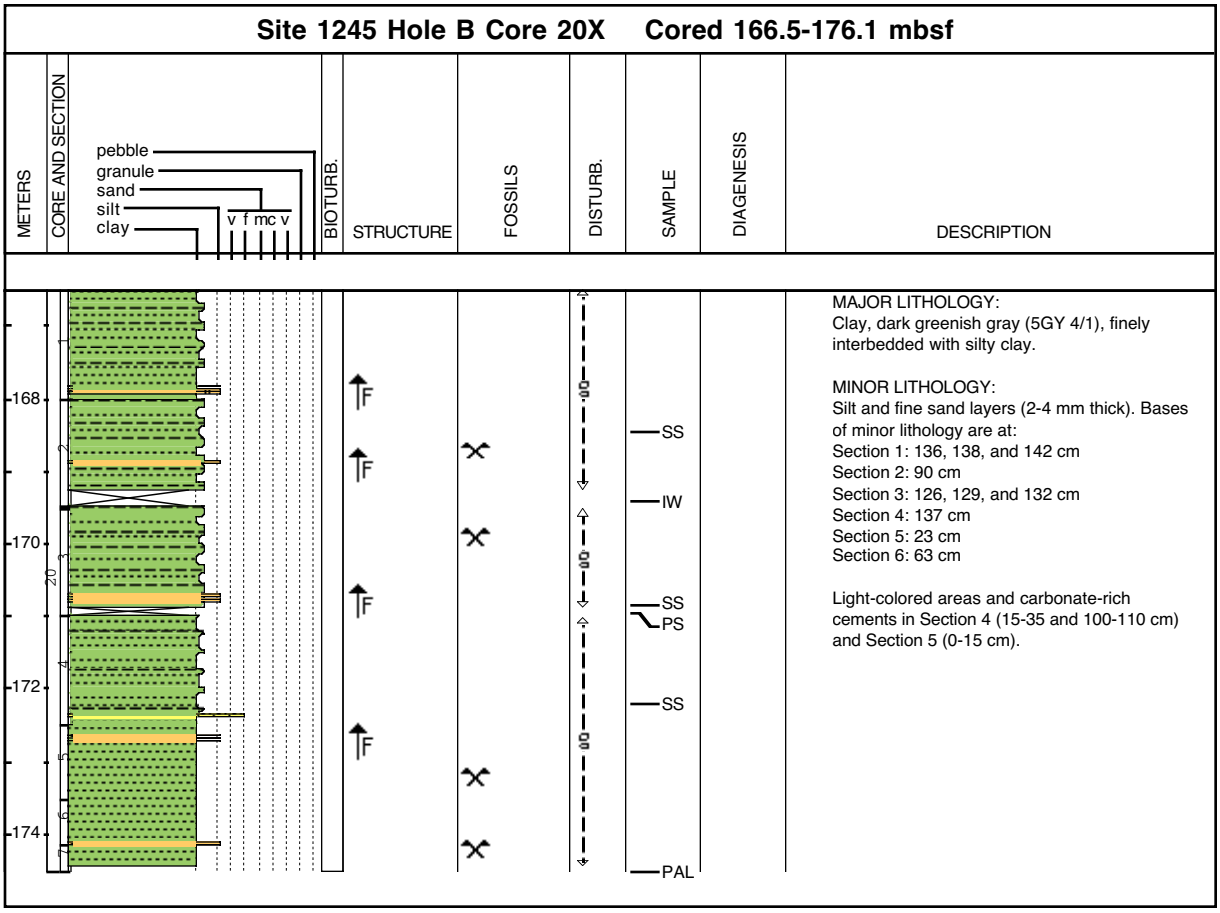
Core Photo


Site 1245 Hole B Core 18X Cored 149.1-157.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
150
152
154
156
IW
PS
PAL
PY
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Clay, light greenish gray (5GY 7/1) and carbonate rich. Occurs only as soft clasts in Section 3 (66-70 cm).
Core is disturbed and biscuited from drilling.

Core Photo

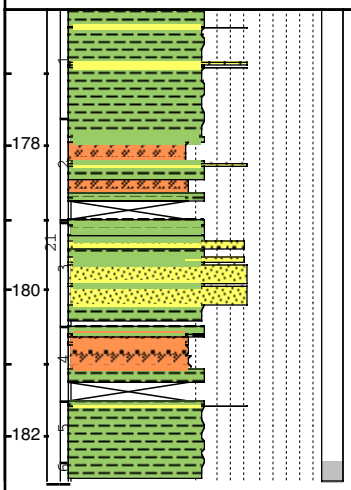

Site 1245 Hole B Core 19X Cored 157.0-166.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
158
160
162
19
1
2
3
4
5
F
F
SS
SS
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Foraminifer-rich sandy silt that is graded.
Bases are present in:
Section1: 127 cm
Section 2: 119 cm
Diatom- and foraminifer-bearing clay, light beige colored, is also present in:
Section 1: 32-37 cm
Section 3: 40-42 and 46-47 cm

Core Photo


Site 1245 Hole B Core 20X Cored 166.5-176.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
168
170
172
174
20
1
2
3
4
5
6
7
F
SS
IW
SS
PS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), finely interbedded with silty clay.
MINOR LITHOLOGY:
Silt and fine sand layers (2-4 mm thick). Bases of minor lithology are at:
Section 1: 136, 138, and 142 cm
Section 2: 90 cm
Section 3: 126, 129, and 132 cm
Section 4: 137 cm
Section 5: 23 cm
Section 6: 63 cm
Light-colored areas and carbonate-rich cements in Section 4 (15-35 and 100-110 cm) and Section 5 (0-15 cm).

Core Photo

Site 1245 Hole B Core 21X Cored 176.1-185.4 mbsf



MAJOR LITHOLOGY:
Diatom-bearing silty clay, dark greenish gray (5GY 4/1), with several volcanic ash sequences. Rare bioturbation and sulfide patches are present.

MINOR LITHOLOGY:
Volcanic ash in ash sequences and sand in sand layers. (1) Volcanic ash sequences, variation in color and composition of ash layers were observed:

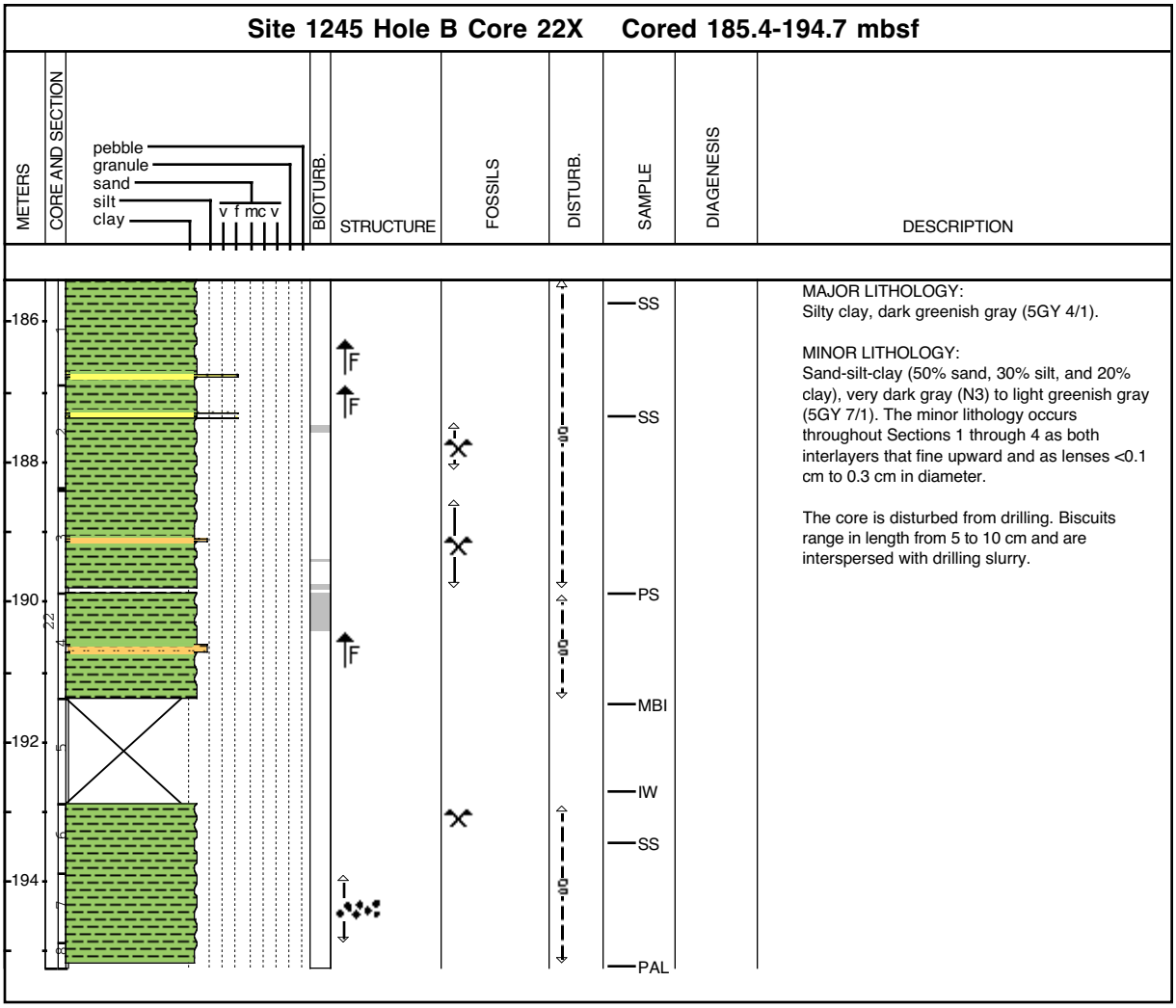
Volcanic ash sequences in Section 2:
Section 2: 29-35 cm, thin (2-3 mm) silty-sandy volcanic ash and silty volcanic ash layers interbedded with diatom-bearing silty clay layers, deeping contact to the underlying clay.
Section 2: 36-59 cm, varing from sandy-silty volcanic ash (lighter) to silty volcanic ash (darker) and to sandy-silty ash (lighter) upward.
Section 2: 85-105 cm, grading from silty volcanic ash (darker) to sandy-silty ash (lighter) upward, with a white clayey-silty ash layer (4 mm) at the top of the sequence.
Section 2: 64-70 cm, volcanic glass-rich sand interbedded with diatom-bearing silty clay layers.
Section 2: 114-117 cm, silty volcanic ash (dark).

Volcanic ash sequences in Section 3:
Section 3: 6-21 cm, volcanic glass-rich sandy clay (dark) to sandy-silty volcanic ash upward.
Section 3: 32-40 cm, volcanic glass-rich sandy clay (dark) to sandy-silty volcanic ash upward
Section 3: 51-56 cm, volcanic glass-bearing clayey sand interbedded with diatom-bearing silty clay.
Section 3: 58-61 cm, white sandy-silty volcanic ash.
Section 3: 64-86 cm, varying from volcanic glass-rich sand to volcanic glass-rich sandy silty upward.
Section 3: 93-119 cm, grading from coarser and darker volcanic glass-rich sand to fine and lighter volcanic glass-rich clayey sand and to volcanic glass-rich sandy clay.

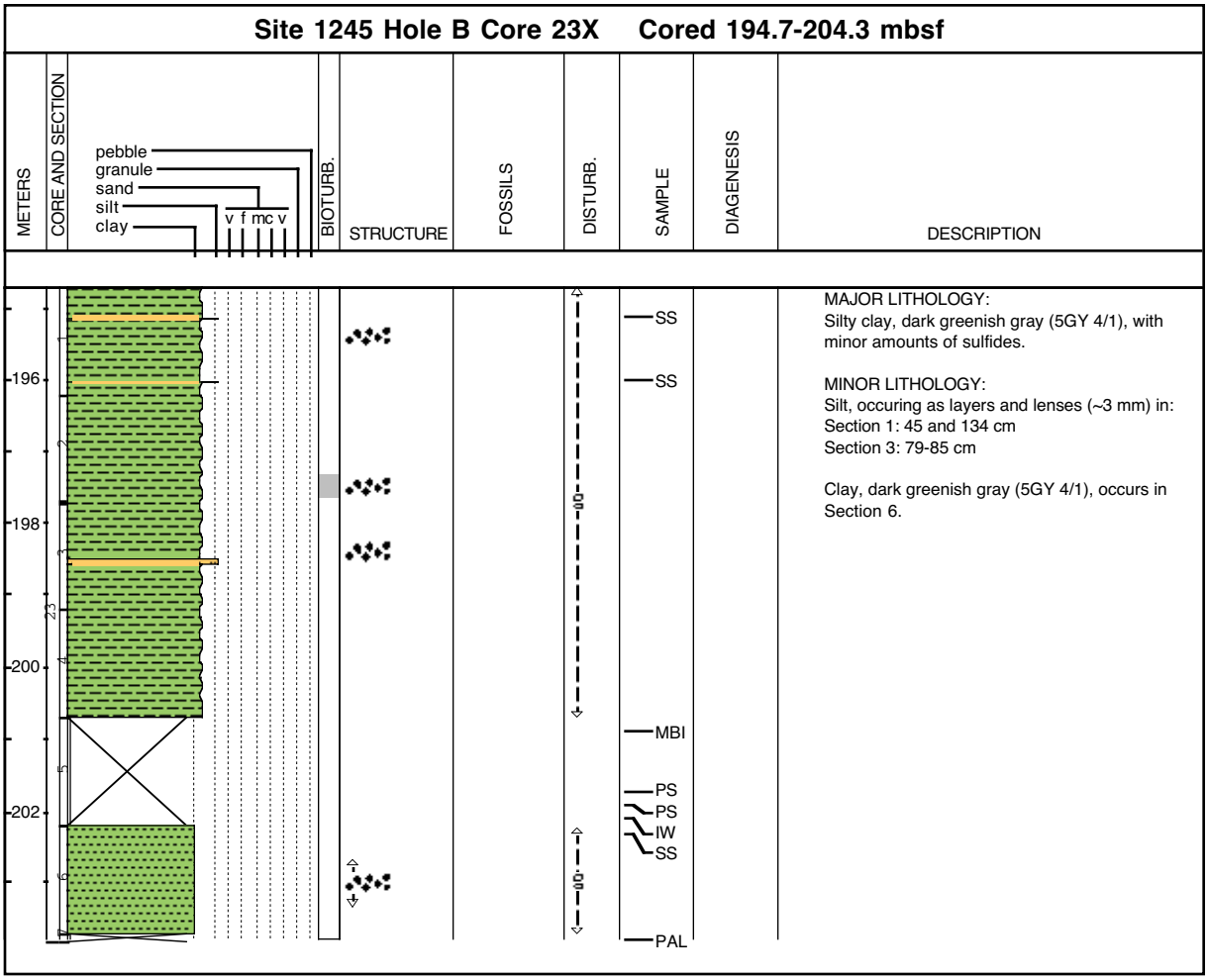
Volcanic ash sequences in Section 4:
One sequence (14 cm - 54 cm), varing from
14 cm: sandy-clayey-silty volcanic ash
24 cm (white): sandy-silty volcanic ash
30 cm: sandy-silty volcanic ash
36 cm (white): sandy volcanic ash
38 cm: sandy-silty volcanic ash
39 cm (lighter): sandy-silty volcanic ash
48 cm (white): silty-sandy volcanic ash
54 cm: volcanic glass rich sandy silt
56 cm: sandy-silty-clayey volcanic ash
One ash lense, 10 - 11 cm: sandy-clayey-silty volcanic ash

Sand in sand layers:
Section 1: 26 - 27 cm
Section 1: 78 - 83 cm
Section 5: 7 - 9 cm

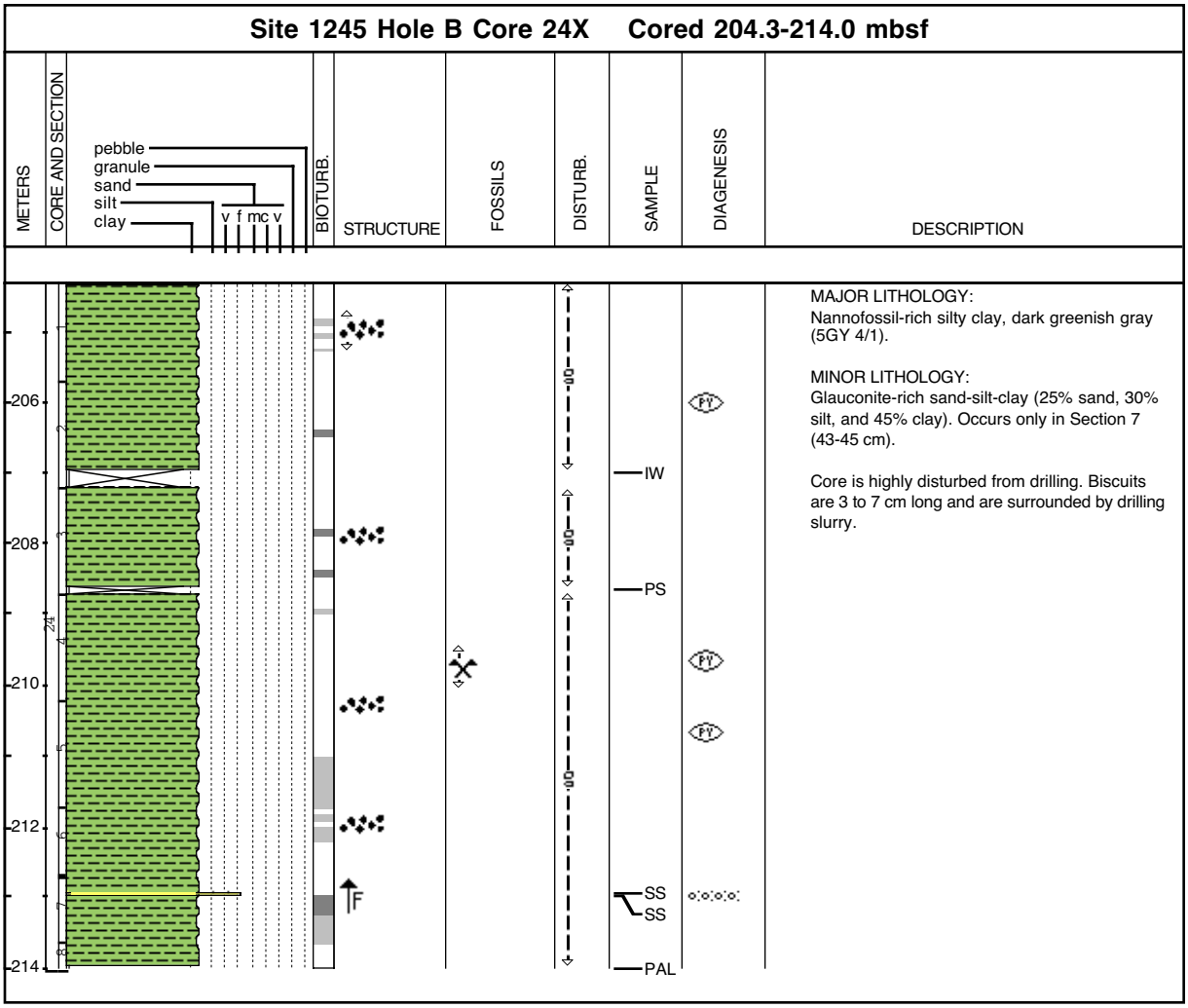
Core Photo


Site 1245 Hole B Core 22X Cored 185.4-194.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
186
188
190
192
194
22
SS
SS
PS
MBI
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Sand-silt-clay (50% sand, 30% silt, and 20% clay), very dark gray (N3) to light greenish gray (5GY 7/1). The minor lithology occurs throughout Sections 1 through 4 as both interlayers that fine upward and as lenses <0.1 cm to 0.3 cm in diameter.
The core is disturbed from drilling. Biscuits range in length from 5 to 10 cm and are interspersed with drilling slurry.

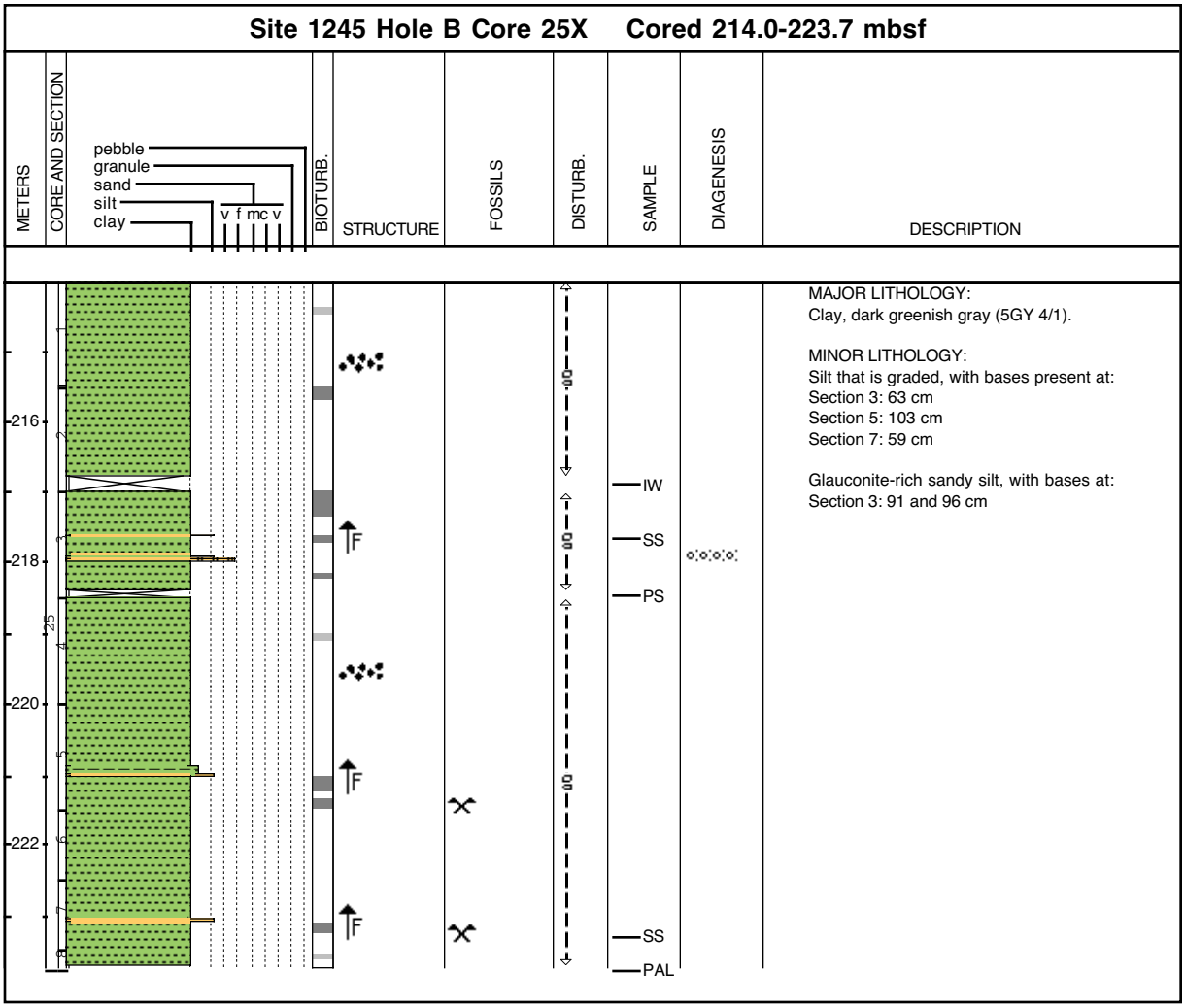
Core Photo


Site 1245 Hole B Core 23X Cored 194.7-204.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
196
198
200
202
SS
SS
MBI
PS
PS
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), with minor amounts of sulfides.
MINOR LITHOLOGY:
Silt, occuring as layers and lenses (~3 mm) in:
Section 1: 45 and 134 cm
Section 3: 79-85 cm
Clay, dark greenish gray (5GY 4/1), occurs in Section 6.

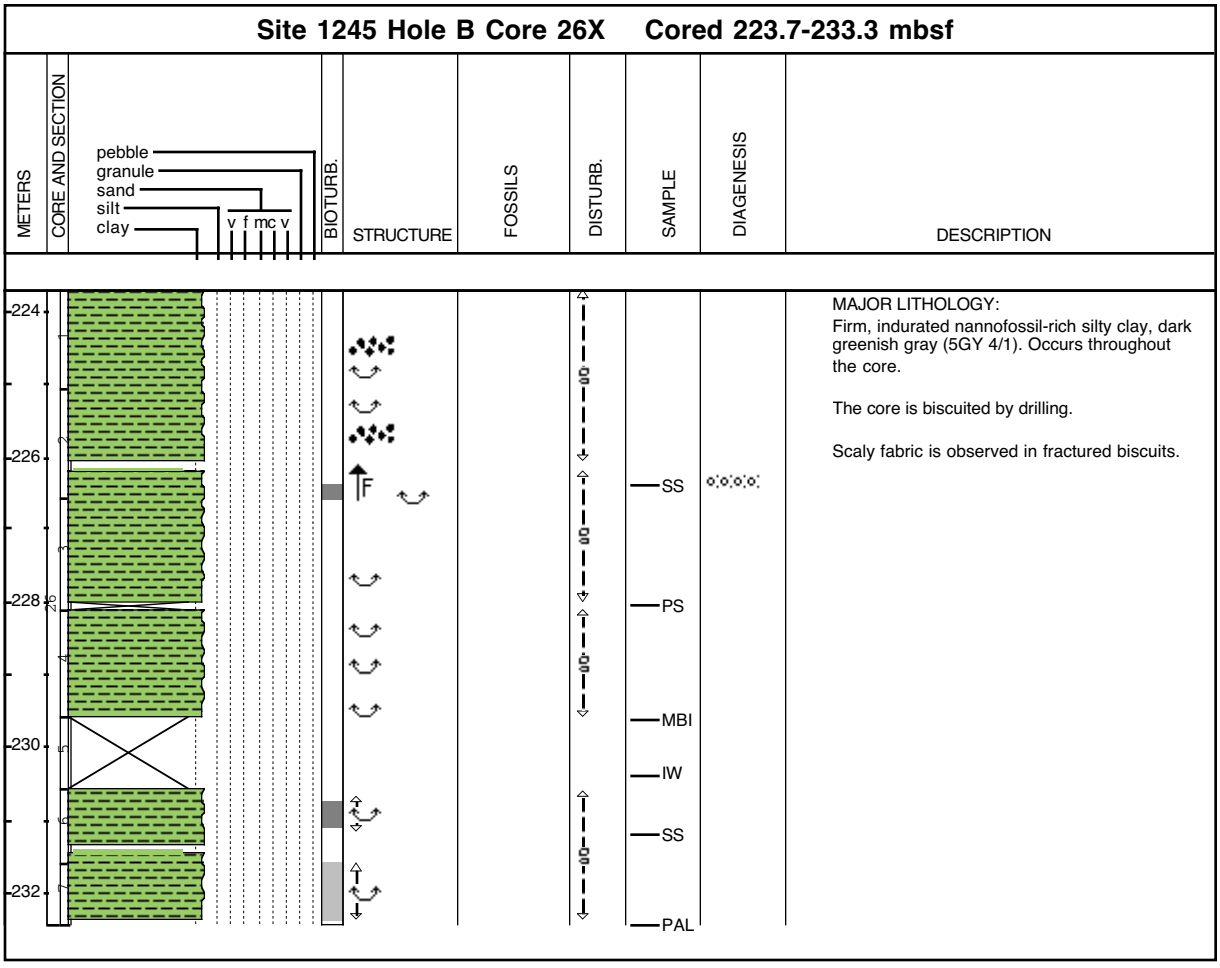
Core Photo


Site 1245 Hole B Core 24X Cored 204.3-214.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
206
208
210
212
214
24
IW
PS
SS
SS
PAL
PY
PY
PY
F
MAJOR LITHOLOGY:
Nannofossil-rich silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Glauconite-rich sand-silt-clay (25% sand, 30% silt, and 45% clay). Occurs only in Section 7 (43-45 cm).
Core is highly disturbed from drilling. Biscuits are 3 to 7 cm long and are surrounded by drilling slurry.

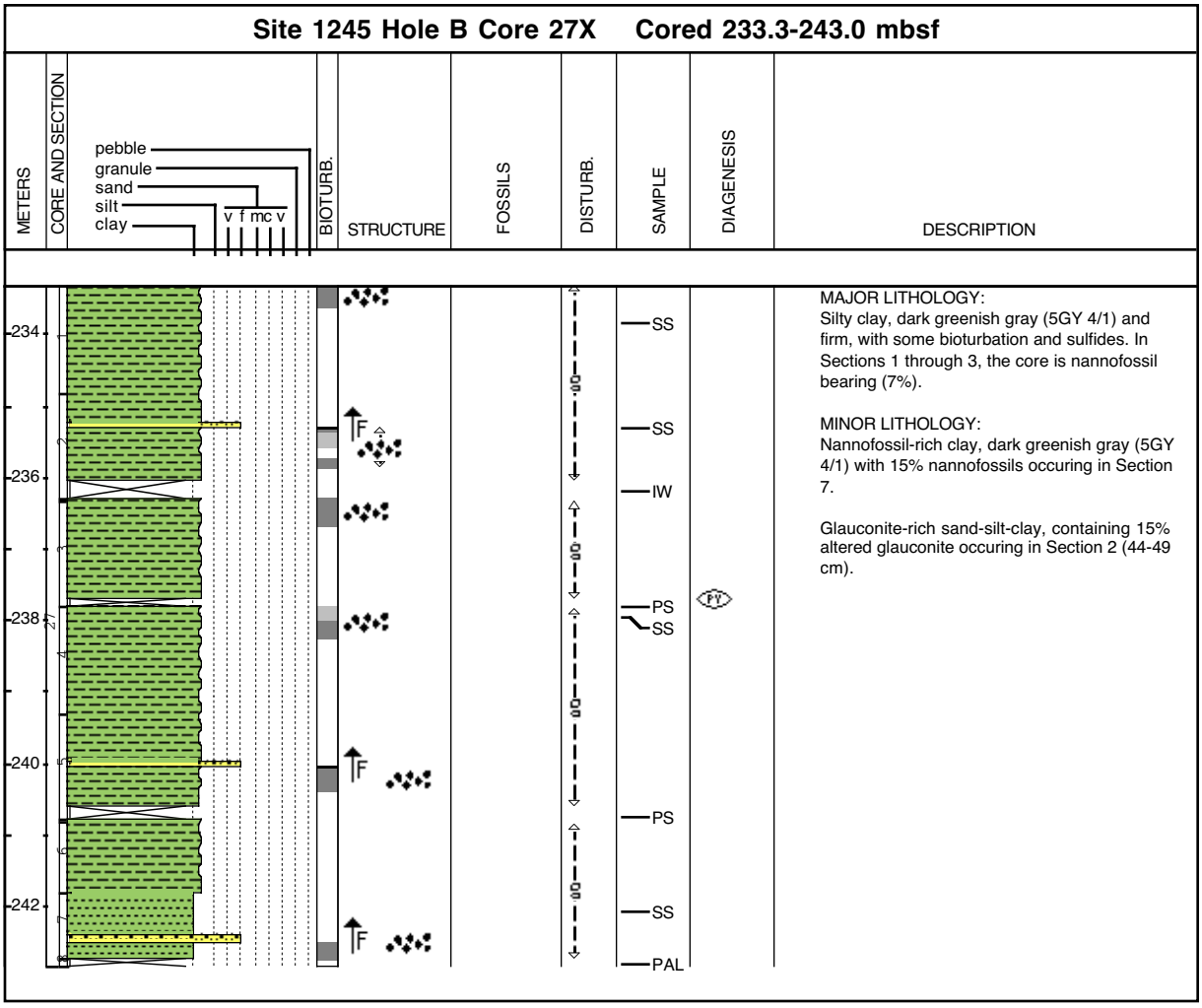
Core Photo


Site 1245 Hole B Core 25X Cored 214.0-223.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
216
218
220
222
25
1
2
3
4
5
6
7
8
F
IW
SS
PS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Silt that is graded, with bases present at:
Section 3: 63 cm
Section 5: 103 cm
Section 7: 59 cm
Glauconite-rich sandy silt, with bases at:
Section 3: 91 and 96 cm

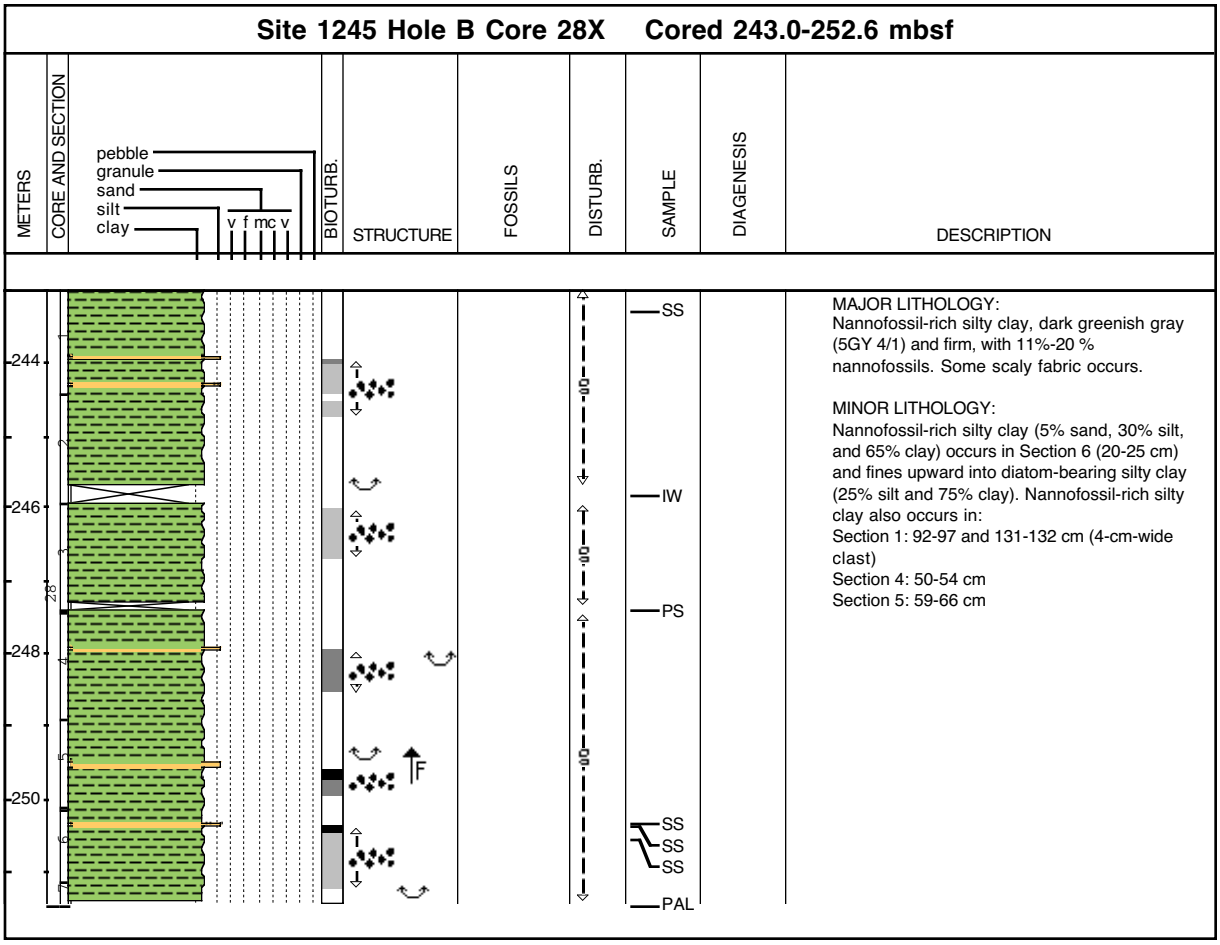
Core Photo


Site 1245 Hole B Core 26X Cored 223.7-233.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
224
226
228
230
232
SS
PS
MBI
IW
SS
PAL
MAJOR LITHOLOGY:
Firm, indurated nannofossil-rich silty clay, dark greenish gray (5GY 4/1). Occurs throughout the core.
The core is biscuited by drilling.
Scaly fabric is observed in fractured biscuits.

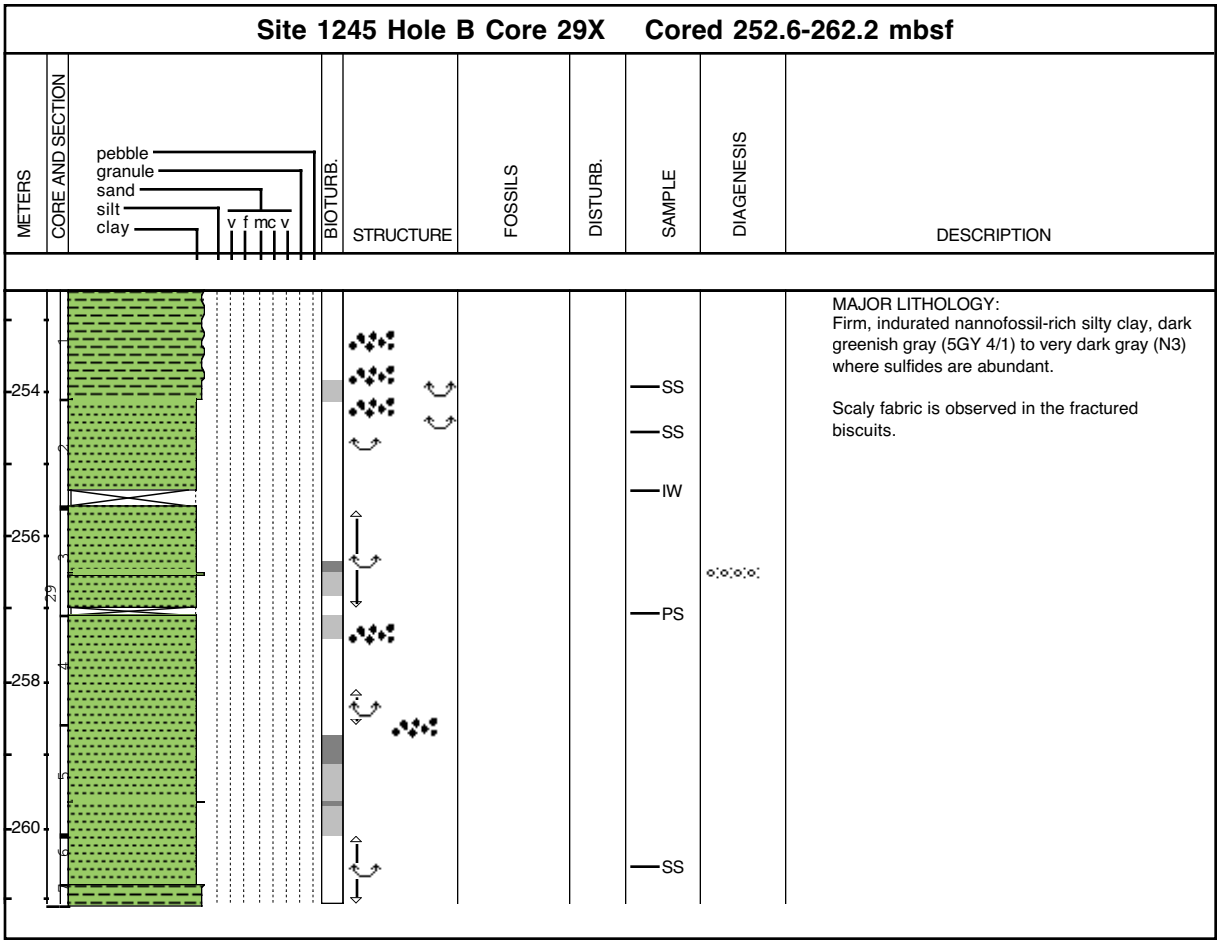
Core Photo


Site 1245 Hole B Core 27X Cored 233.3-243.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
234
236
238
240
242
SS
SS
IW
PS
SS
PS
SS
PAL
PY
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) and firm, with some bioturbation and sulfides. In Sections 1 through 3, the core is nannofossil bearing (7%).
MINOR LITHOLOGY:
Nannofossil-rich clay, dark greenish gray (5GY 4/1) with 15% nannofossils occuring in Section 7.
Glauconite-rich sand-silt-clay, containing 15% altered glauconite occuring in Section 2 (44-49 cm).

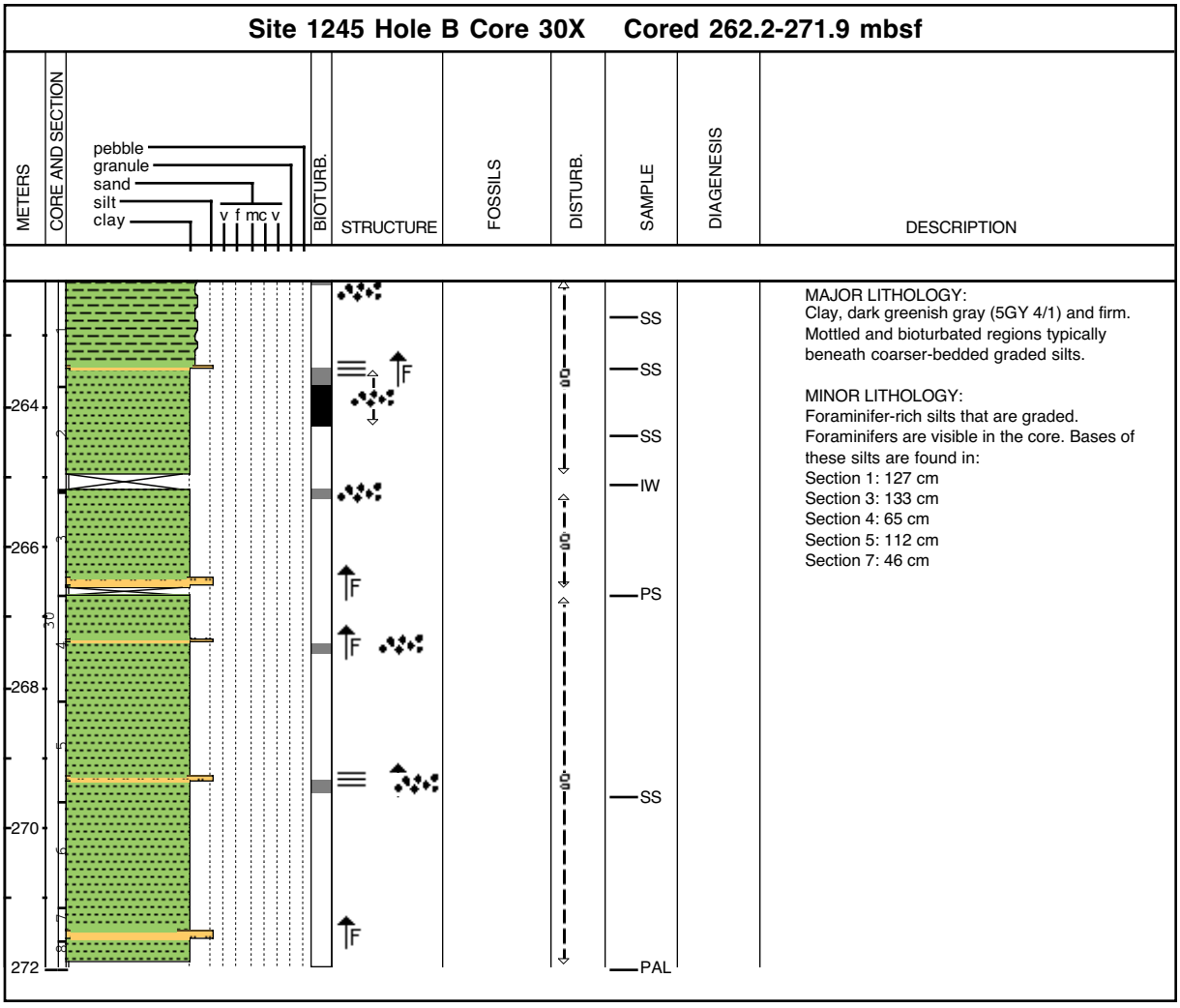
Core Photo


Site 1245 Hole B Core 28X Cored 243.0-252.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
244
246
248
250
28
SS
IW
PS
SS
SS
SS
PAL
F
MAJOR LITHOLOGY:
Nannofossil-rich silty clay, dark greenish gray (5GY 4/1) and firm, with 11%-20 % nannofossils. Some scaly fabric occurs.
MINOR LITHOLOGY:
Nannofossil-rich silty clay (5% sand, 30% silt, and 65% clay) occurs in Section 6 (20-25 cm) and fines upward into diatom-bearing silty clay (25% silt and 75% clay). Nannofossil-rich silty clay also occurs in:
Section 1: 92-97 and 131-132 cm (4-cm-wide clast)
Section 4: 50-54 cm
Section 5: 59-66 cm

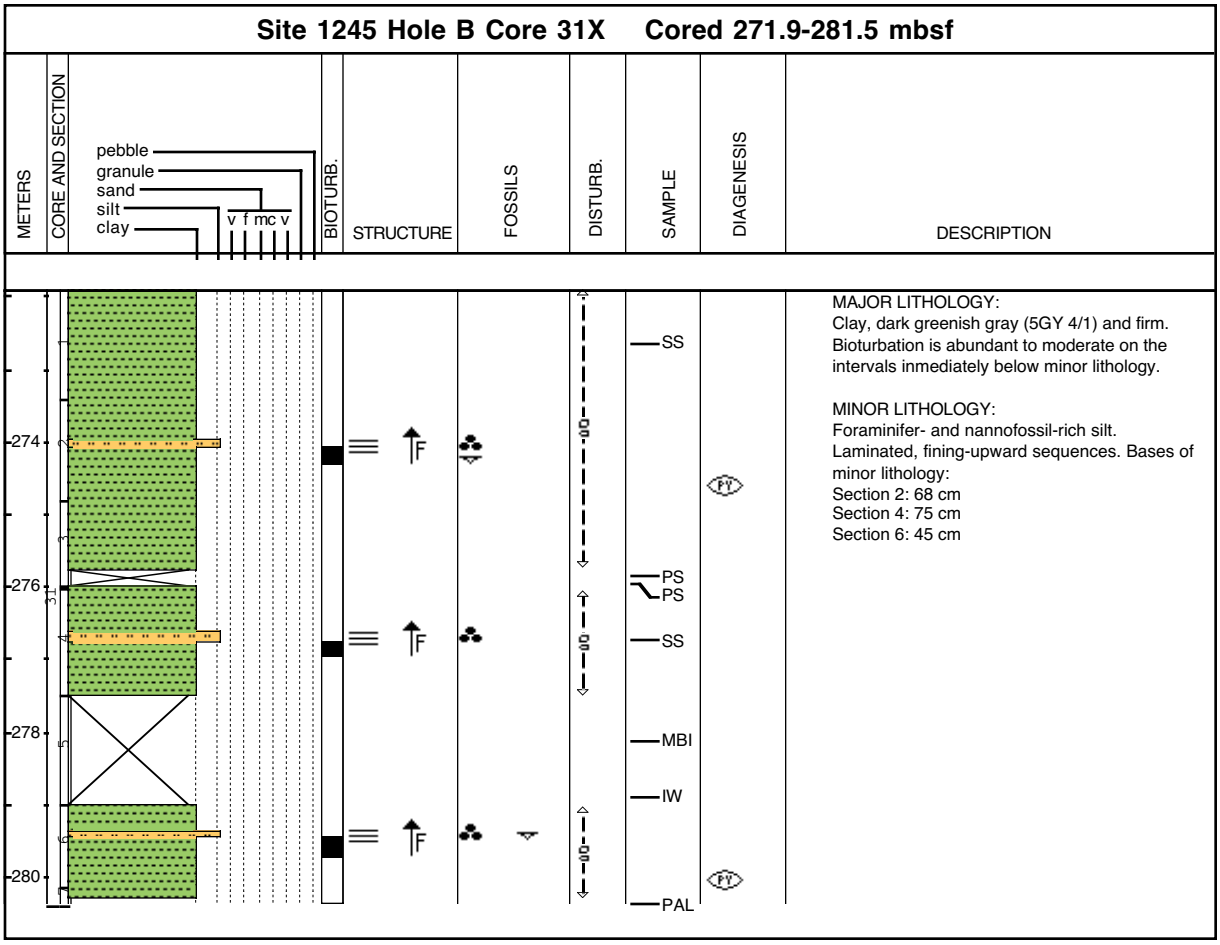
Core Photo


Site 1245 Hole B Core 29X Cored 252.6-262.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
254
256
258
260
29
1
2
3
4
5
6
SS
SS
IW
PS
SS
MAJOR LITHOLOGY:
Firm, indurated nannofossil-rich silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfides are abundant.
Scaly fabric is observed in the fractured biscuits.

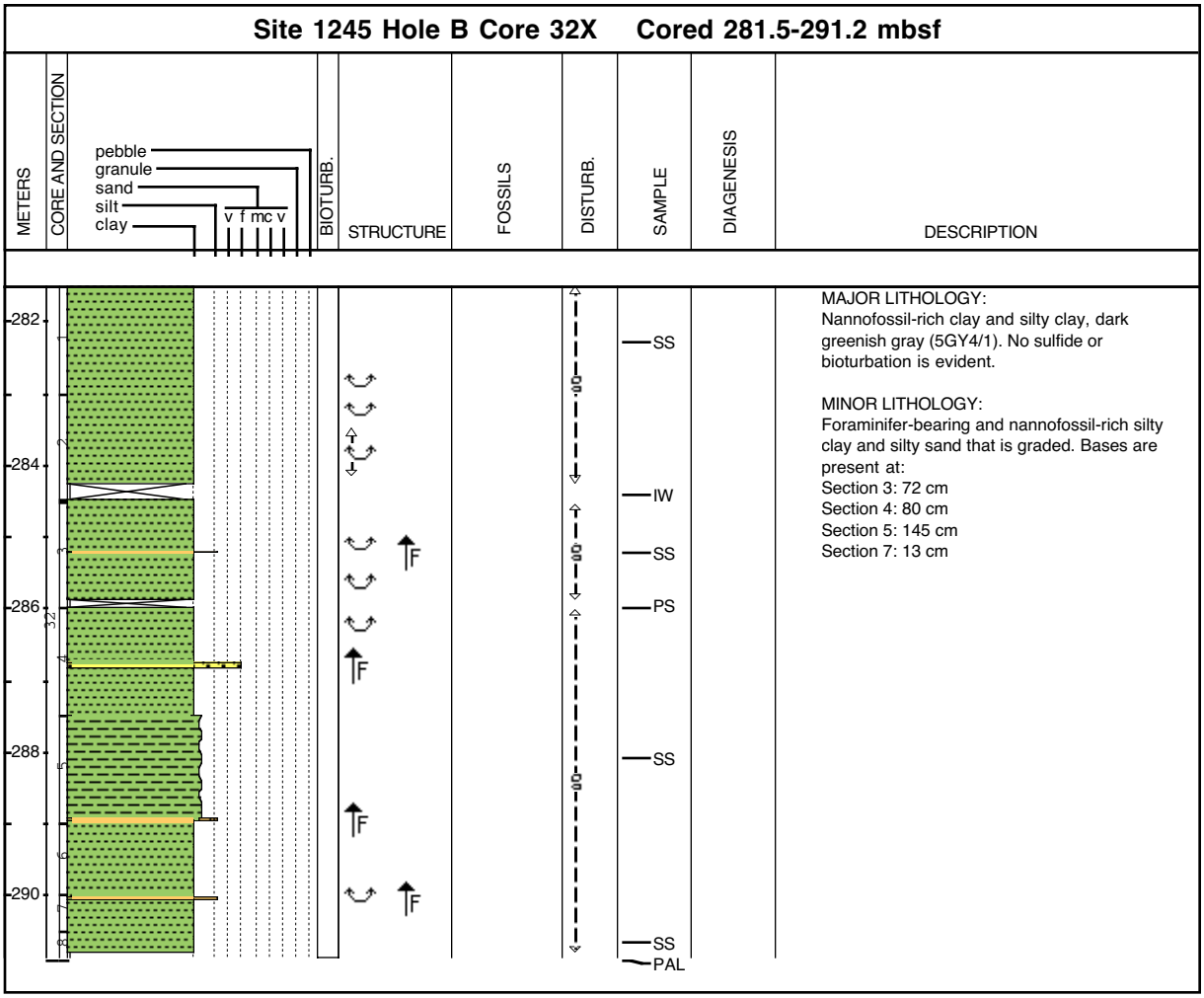
Core Photo


Site 1245 Hole B Core 30X Cored 262.2-271.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
264
266
268
270
272
30
SS
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and firm. Mottled and bioturbated regions typically beneath coarser-bedded graded silts.
MINOR LITHOLOGY:
Foraminifer-rich silts that are graded. Foraminifers are visible in the core. Bases of these silts are found in:
Section 1: 127 cm
Section 3: 133 cm
Section 4: 65 cm
Section 5: 112 cm
Section 7: 46 cm

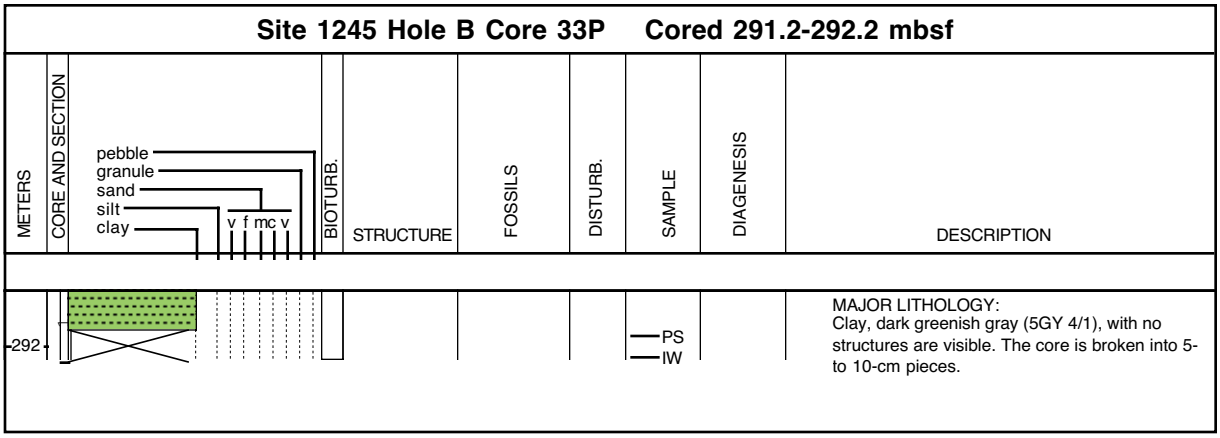
Core Photo


Site 1245 Hole B Core 31X Cored 271.9-281.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
274
276
278
280
SS
PS
PS
SS
MBI
IW
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and firm. Bioturbation is abundant to moderate on the intervals inmediately below minor lithology.
MINOR LITHOLOGY:
Foraminifer- and nannofossil-rich silt. Laminated, fining-upward sequences. Bases of minor lithology:
Section 2: 68 cm
Section 4: 75 cm
Section 6: 45 cm

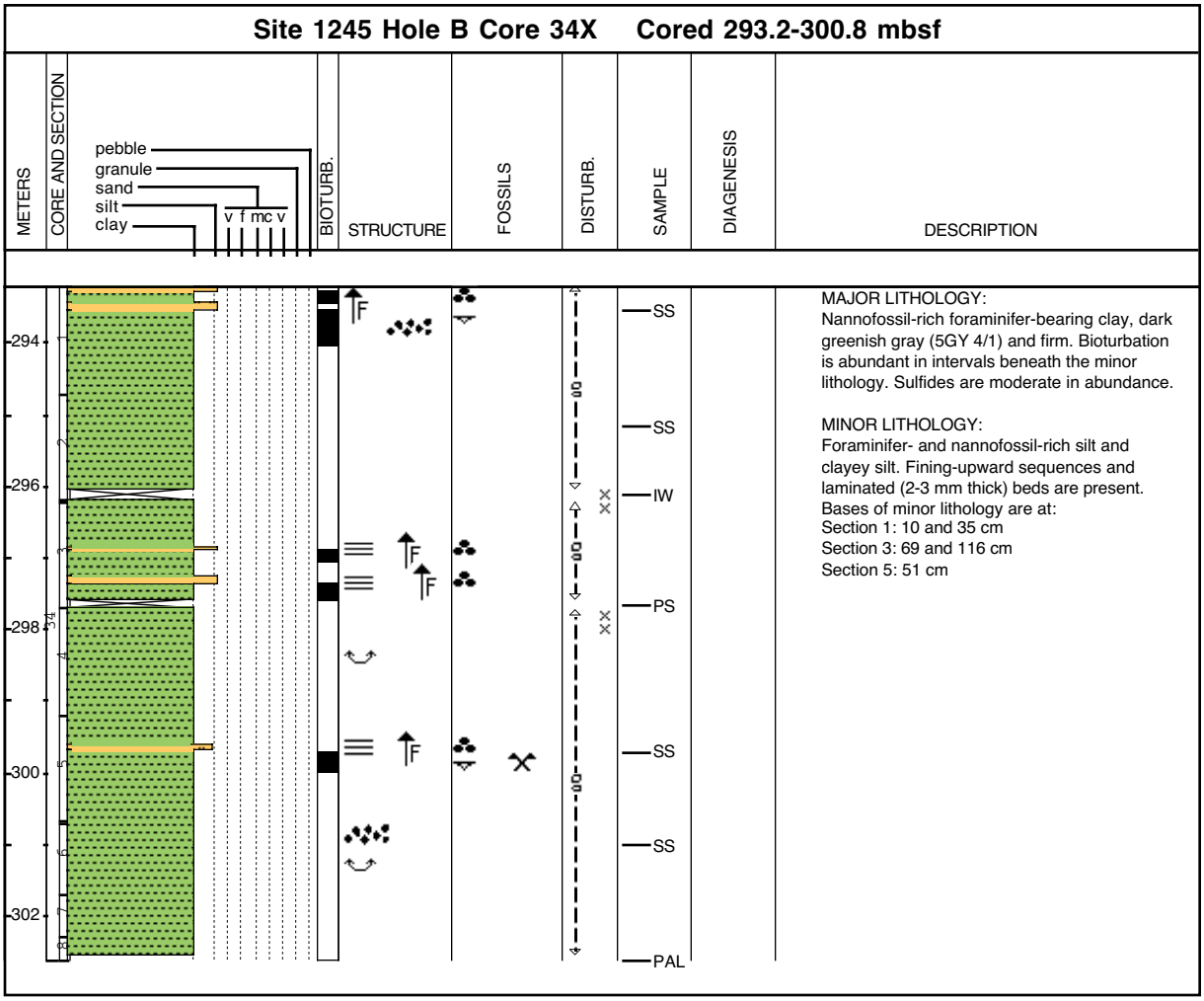
Core Photo


Site 1245 Hole B Core 32X Cored 281.5-291.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
282
284
286
288
290
32
SS
IW
SS
PS
SS
SS
PAL
F
MAJOR LITHOLOGY:
Nannofossil-rich clay and silty clay, dark greenish gray (5GY4/1). No sulfide or bioturbation is evident.
MINOR LITHOLOGY:
Foraminifer-bearing and nannofossil-rich silty clay and silty sand that is graded. Bases are present at:
Section 3: 72 cm
Section 4: 80 cm
Section 5: 145 cm
Section 7: 13 cm

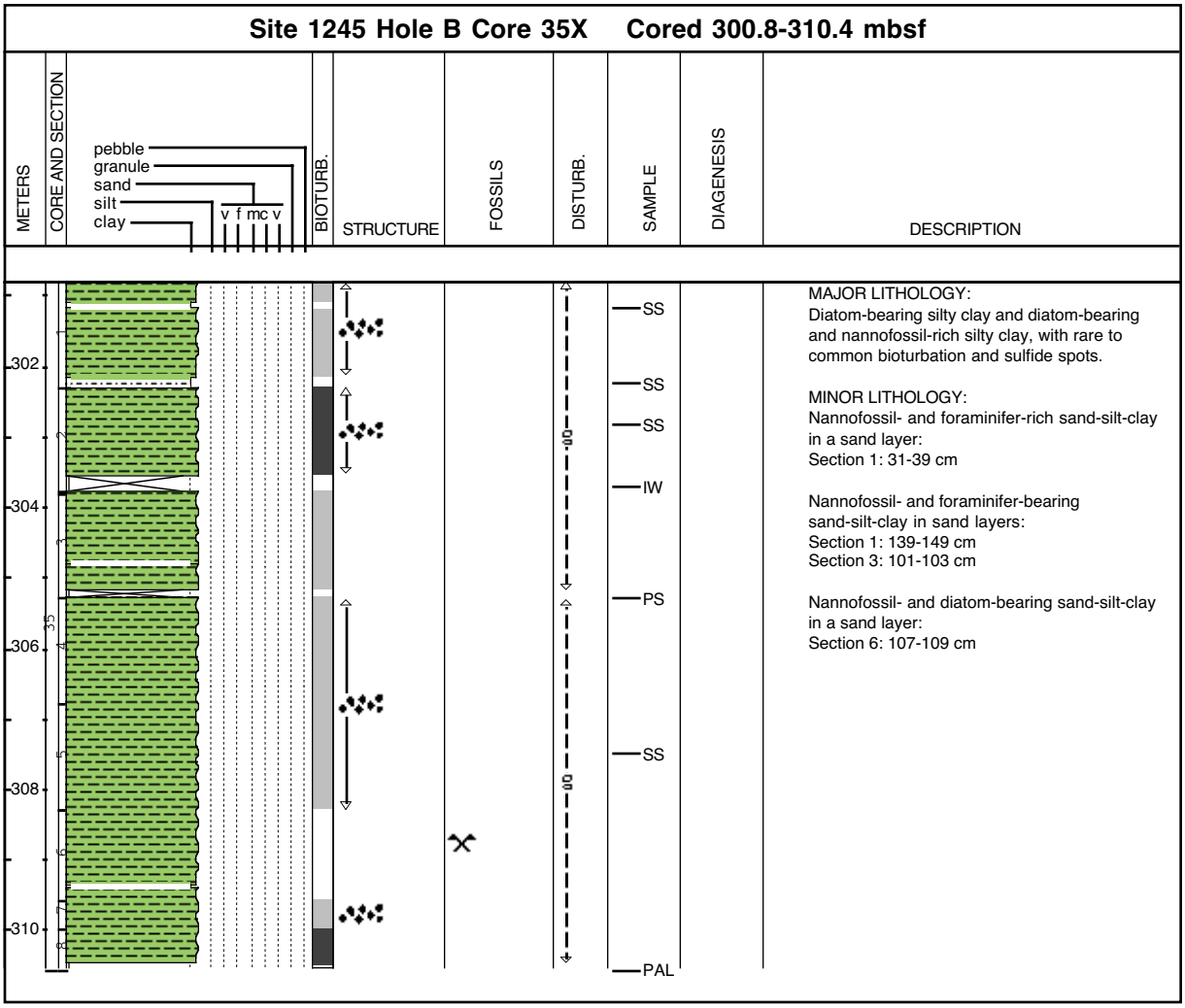
Core Photo


Site 1245 Hole B Core 33P Cored 291.2-292.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
292
PS
IW
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), with no structures are visible. The core is broken into 5- to 10-cm pieces.

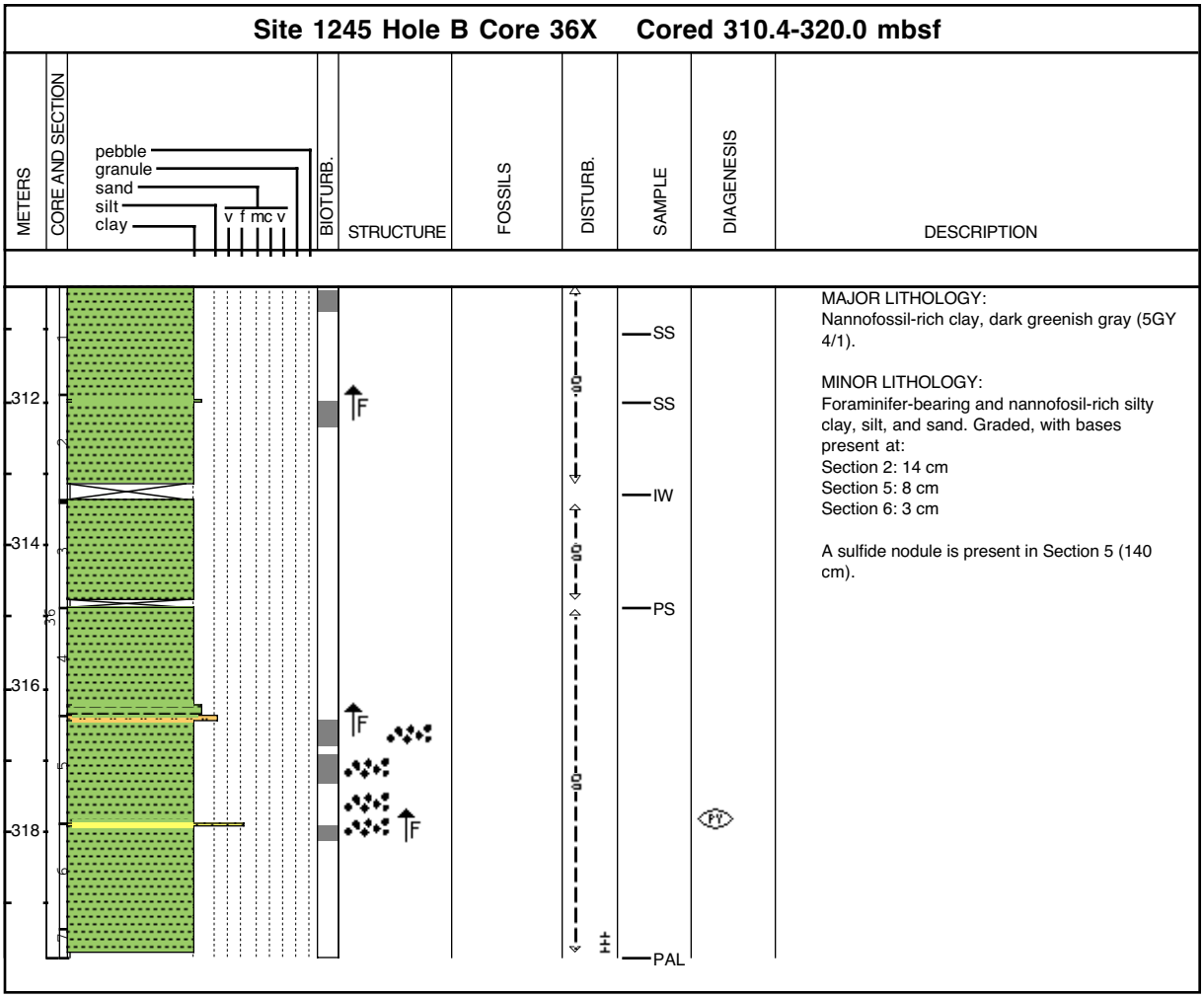
Core Photo


Site 1245 Hole B Core 34X Cored 293.2-300.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
294
296
298
300
302
SS
SS
IW
PS
SS
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-rich foraminifer-bearing clay, dark greenish gray (5GY 4/1) and firm. Bioturbation is abundant in intervals beneath the minor lithology. Sulfides are moderate in abundance.
MINOR LITHOLOGY:
Foraminifer- and nannofossil-rich silt and clayey silt. Fining-upward sequences and laminated (2-3 mm thick) beds are present.
Bases of minor lithology are at:
Section 1: 10 and 35 cm
Section 3: 69 and 116 cm
Section 5: 51 cm

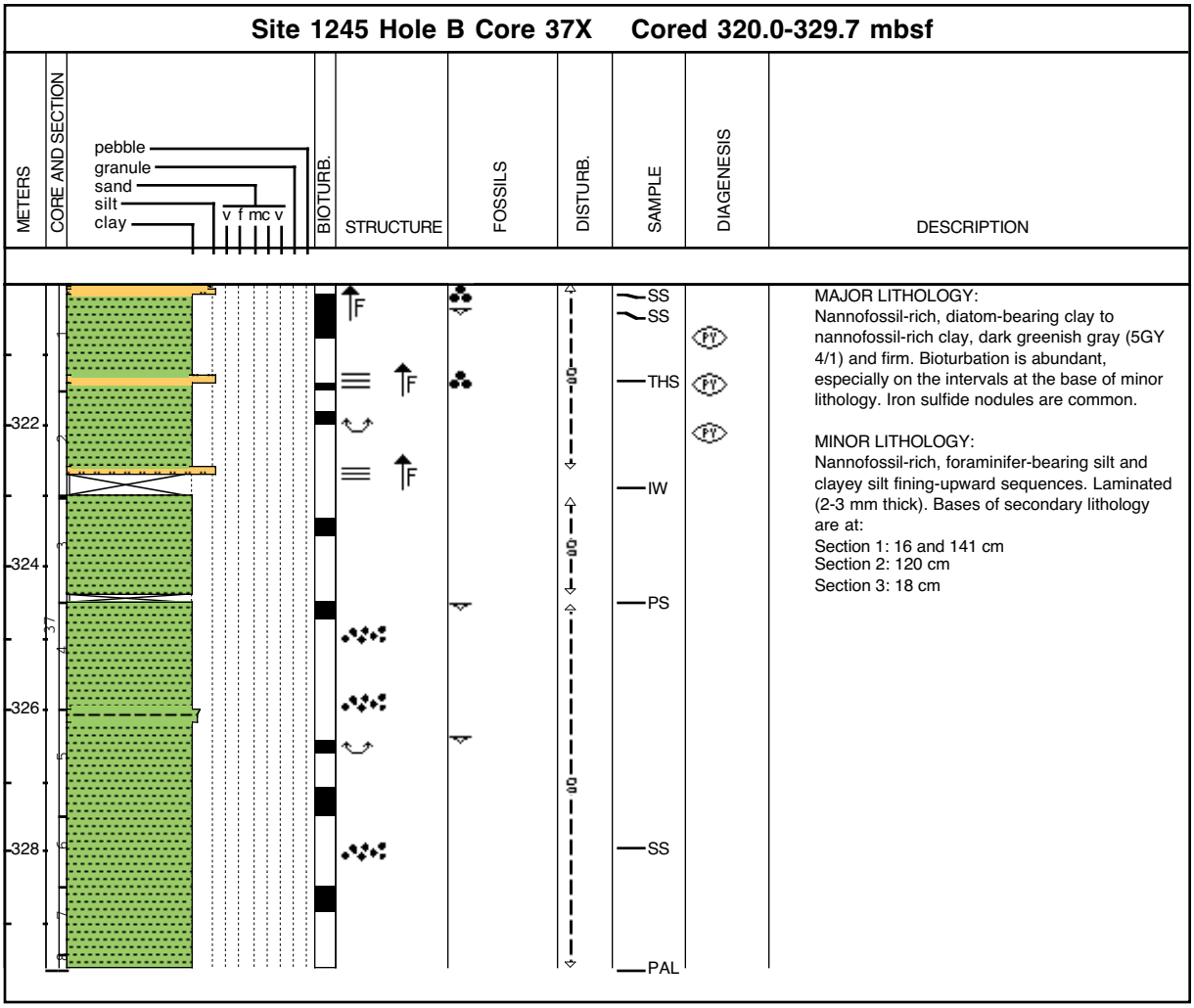
Core Photo


Site 1245 Hole B Core 35X Cored 300.8-310.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
302
304
306
308
310
35
SS
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing silty clay and diatom-bearing and nannofossil-rich silty clay, with rare to common bioturbation and sulfide spots.
MINOR LITHOLOGY:
Nannofossil- and foraminifer-rich sand-silt-clay in a sand layer:
Section 1: 31-39 cm
Nannofossil- and foraminifer-bearing sand-silt-clay in sand layers:
Section 1: 139-149 cm
Section 3: 101-103 cm
Nannofossil- and diatom-bearing sand-silt-clay in a sand layer:
Section 6: 107-109 cm

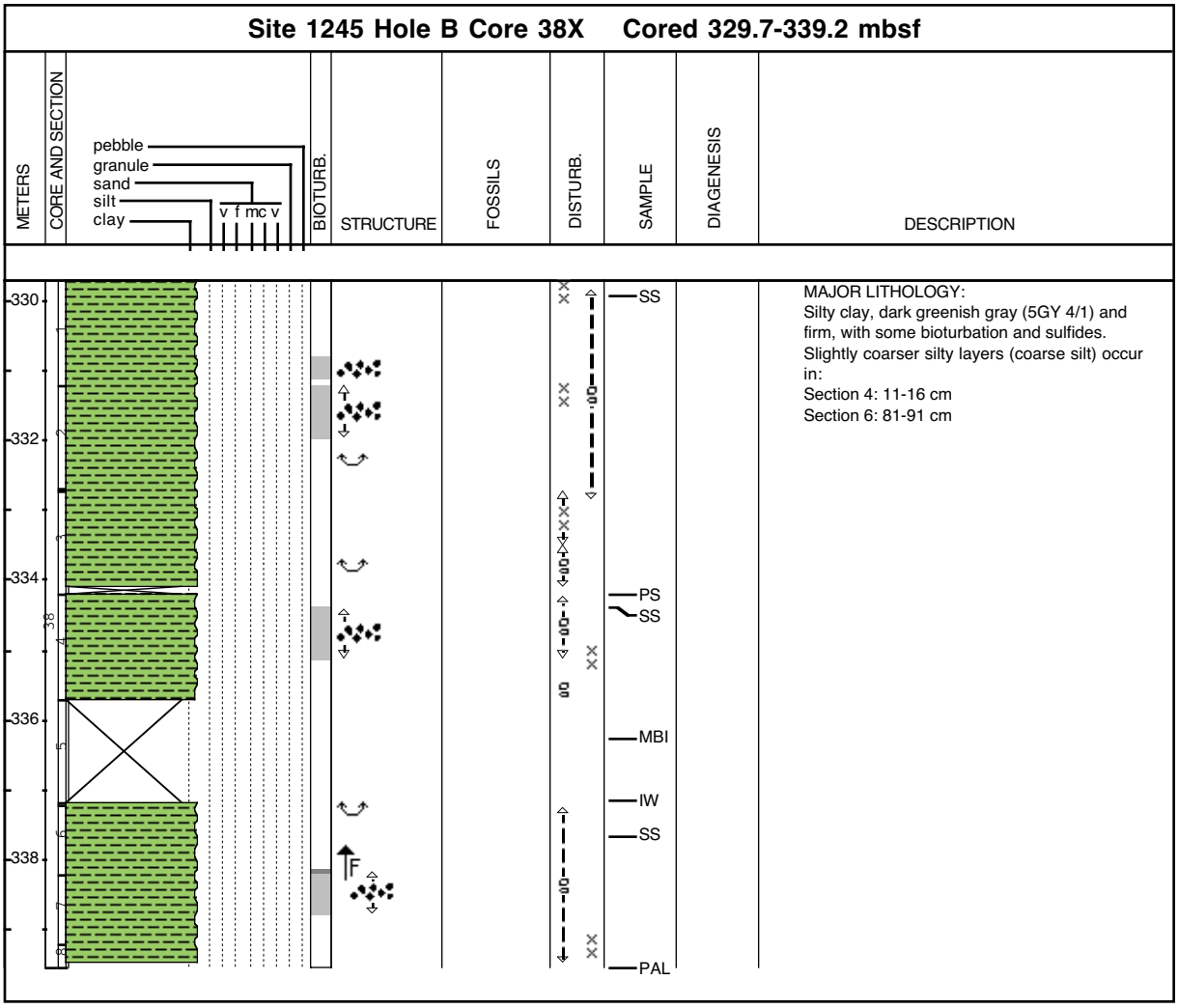
Core Photo


Site 1245 Hole B Core 36X Cored 310.4-320.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
312
314
316
318
36
SS
SS
IW
PS
PAL
F
F
F
PY
MAJOR LITHOLOGY:
Nannofossil-rich clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Foraminifer-bearing and nannofosil-rich silty clay, silt, and sand. Graded, with bases present at:
Section 2: 14 cm
Section 5: 8 cm
Section 6: 3 cm
A sulfide nodule is present in Section 5 (140 cm).

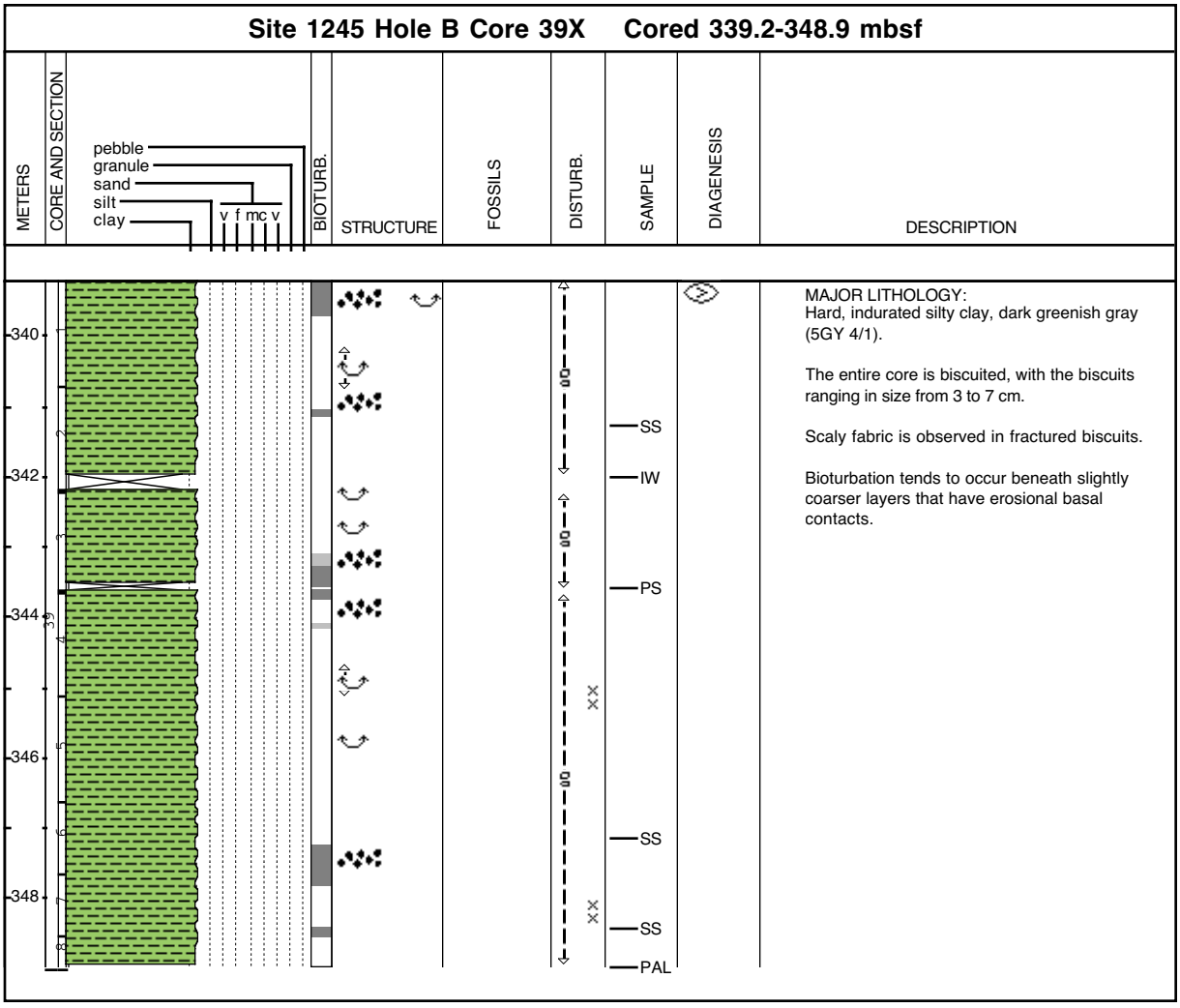
Core Photo


Site 1245 Hole B Core 37X Cored 320.0-329.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
322
324
326
328
SS
SS
THS
IW
PS
SS
PAL
PY
PY
PY
MAJOR LITHOLOGY:
Nannofossil-rich, diatom-bearing clay to nannofossil-rich clay, dark greenish gray (5GY 4/1) and firm. Bioturbation is abundant, especially on the intervals at the base of minor lithology. Iron sulfide nodules are common.
MINOR LITHOLOGY:
Nannofossil-rich, foraminifer-bearing silt and clayey silt fining-upward sequences. Laminated (2-3 mm thick). Bases of secondary lithology are at:
Section 1: 16 and 141 cm
Section 2: 120 cm
Section 3: 18 cm

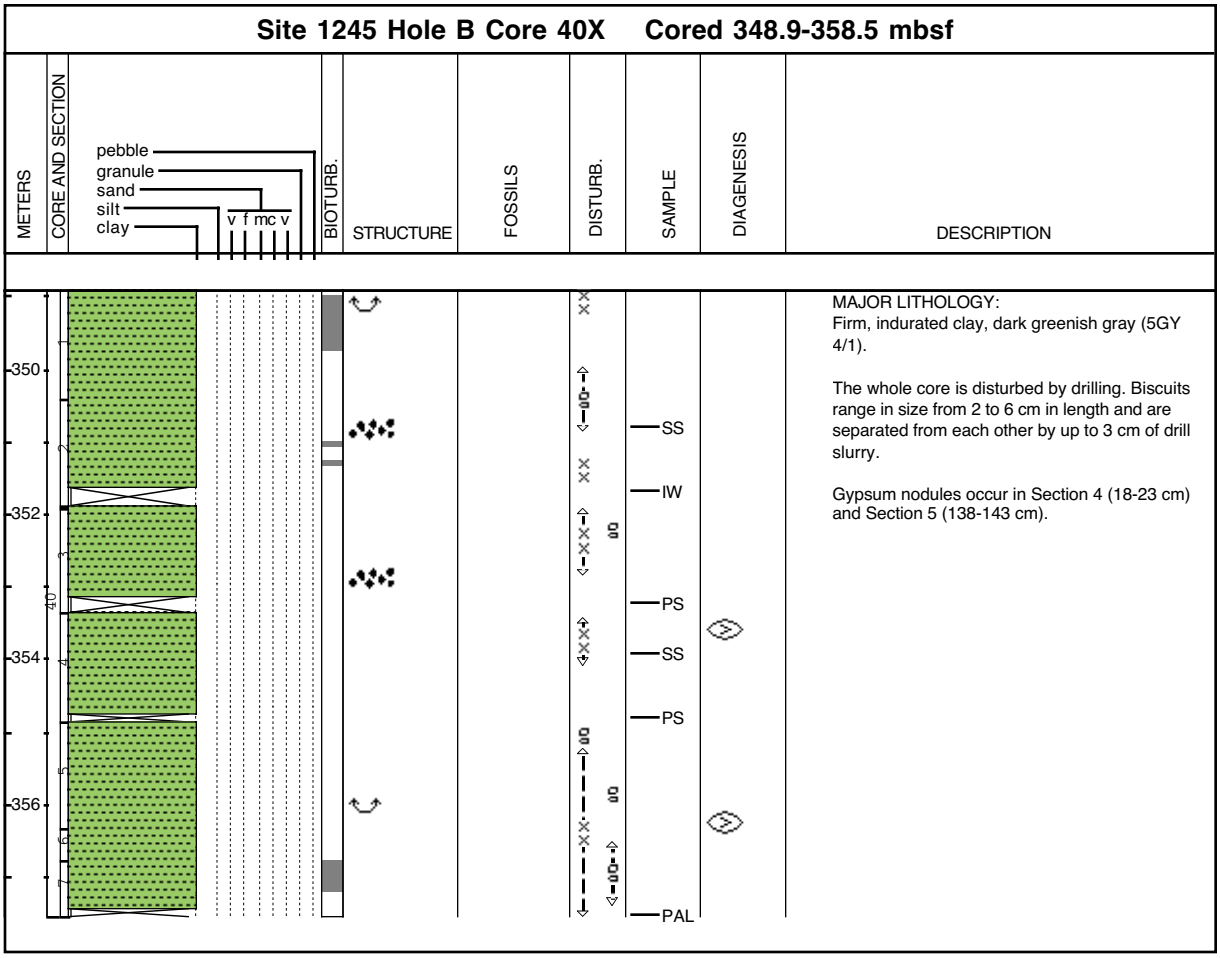
Core Photo


Site 1245 Hole B Core 38X Cored 329.7-339.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
330
332
334
336
338
38
SS
PS
SS
MBI
IW
SS
PAL
F
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) and firm, with some bioturbation and sulfides.
Slightly coarser silty layers (coarse silt) occur in:
Section 4: 11-16 cm
Section 6: 81-91 cm

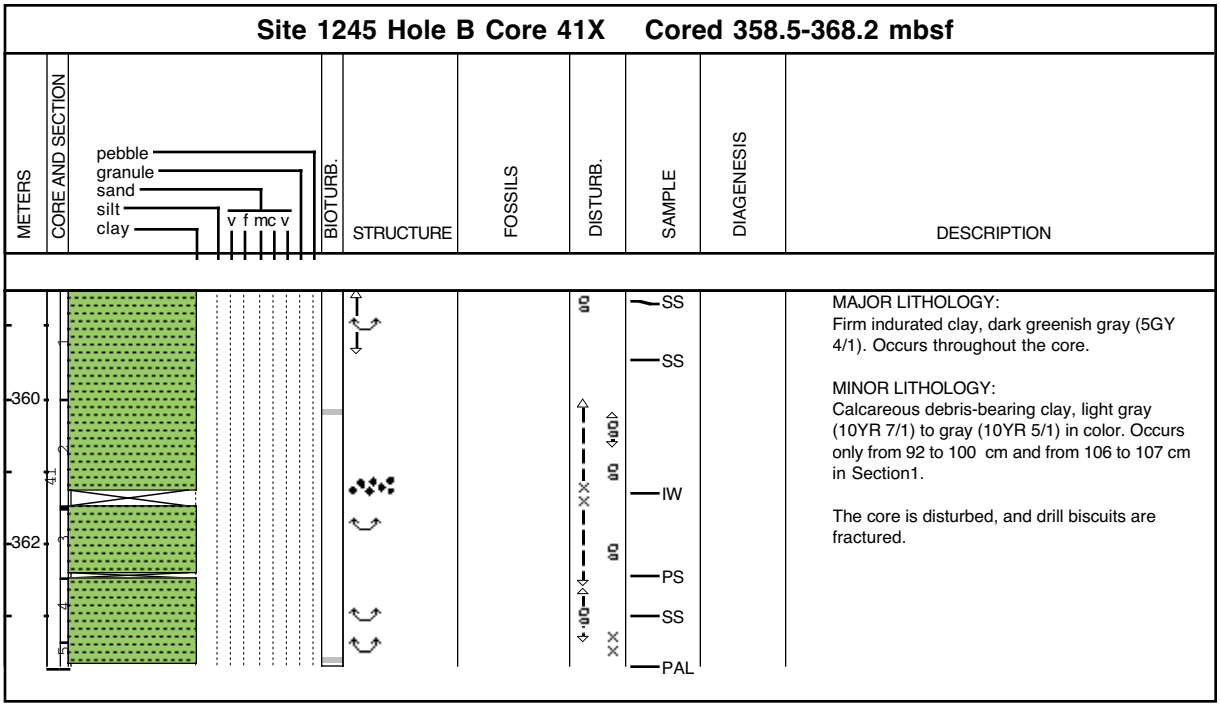
Core Photo


Site 1245 Hole B Core 39X Cored 339.2-348.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
340
342
344
346
348
39
SS
IW
PS
SS
SS
PAL
MAJOR LITHOLOGY:
Hard, indurated silty clay, dark greenish gray (5GY 4/1).
The entire core is biscuited, with the biscuits ranging in size from 3 to 7 cm.
Scaly fabric is observed in fractured biscuits.
Bioturbation tends to occur beneath slightly coarser layers that have erosional basal contacts.

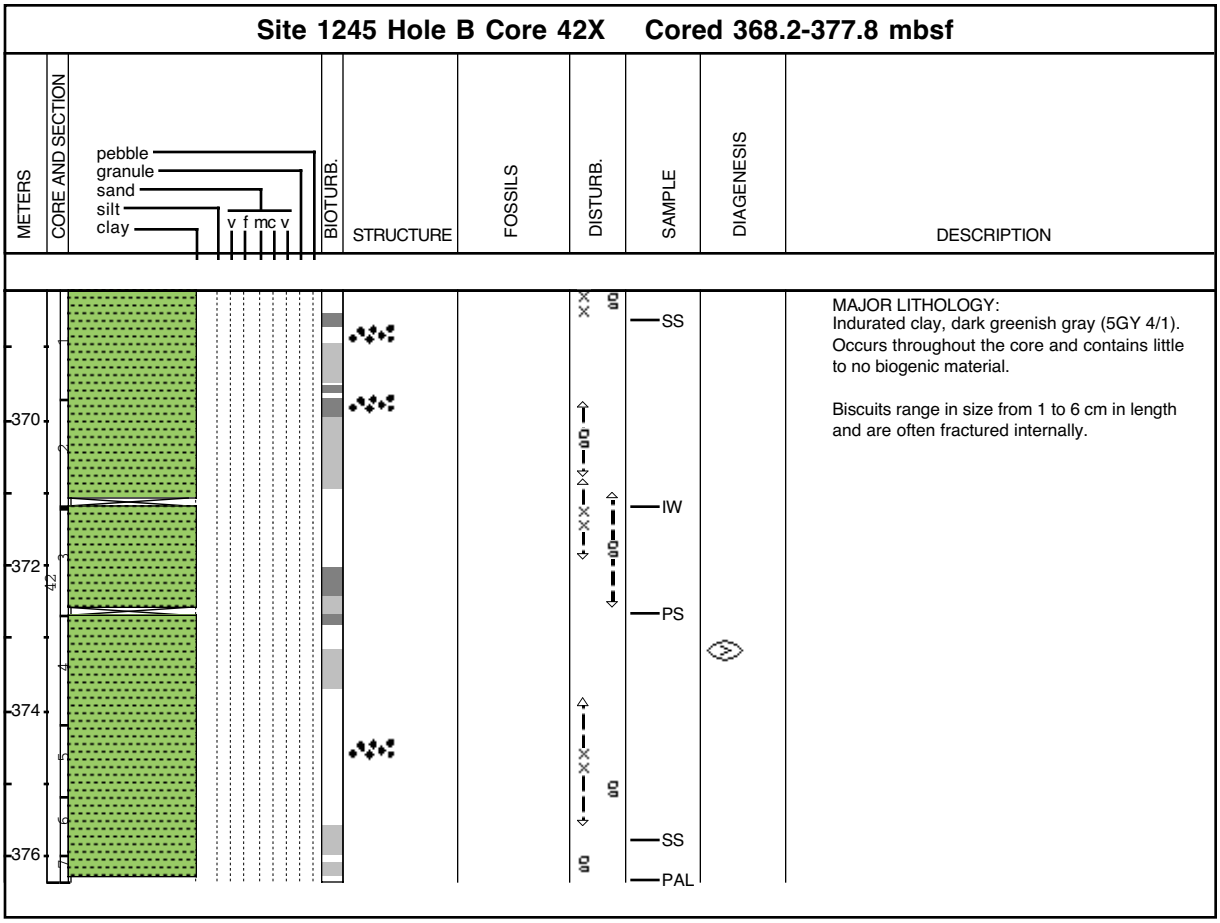
Core Photo


Site 1245 Hole B Core 40X Cored 348.9-358.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
350
352
354
356
40
1
2
3
4
5
6
7
SS
IW
PS
SS
PS
PAL
MAJOR LITHOLOGY:
Firm, indurated clay, dark greenish gray (5GY 4/1).
The whole core is disturbed by drilling. Biscuits range in size from 2 to 6 cm in length and are separated from each other by up to 3 cm of drill slurry.
Gypsum nodules occur in Section 4 (18-23 cm) and Section 5 (138-143 cm).

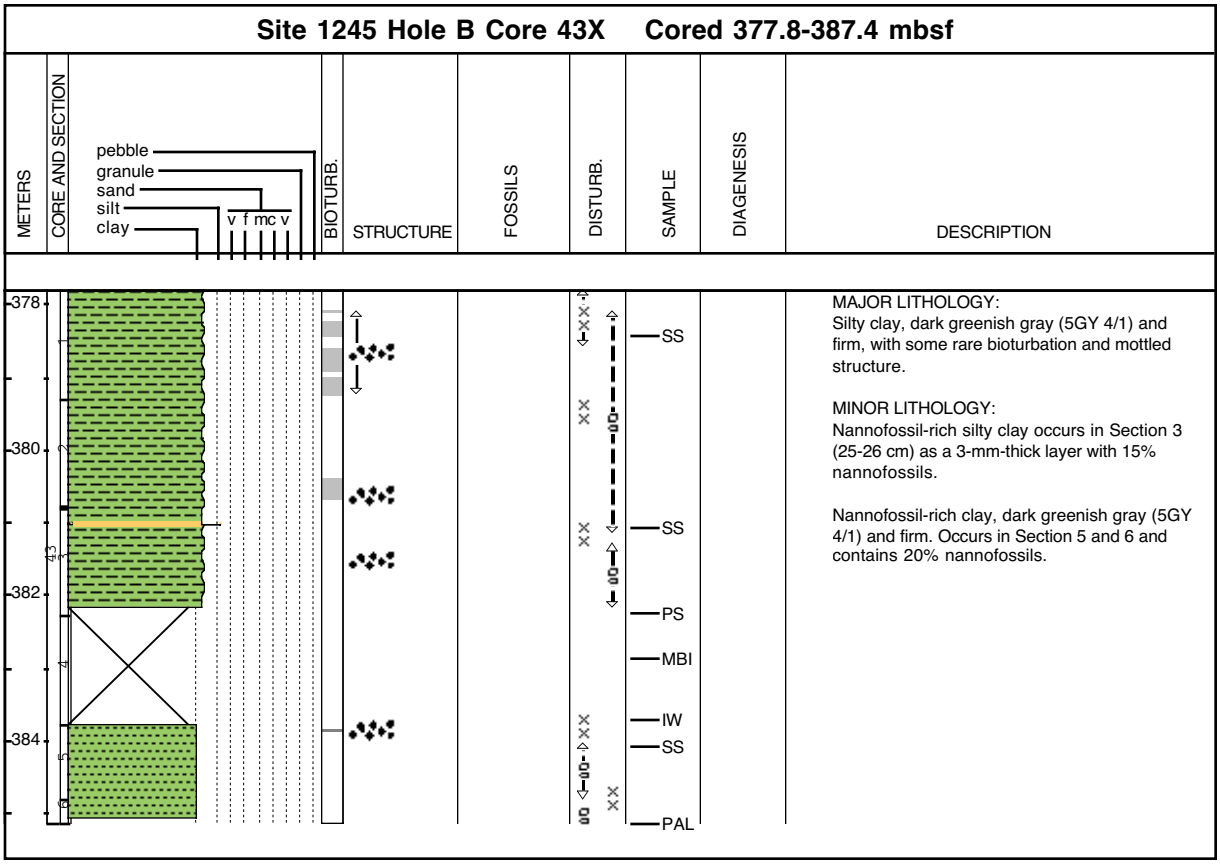
Core Photo


Site 1245 Hole B Core 41X Cored 358.5-368.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
360
362
41
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Firm indurated clay, dark greenish gray (5GY 4/1). Occurs throughout the core.
MINOR LITHOLOGY:
Calcareous debris-bearing clay, light gray (10YR 7/1) to gray (10YR 5/1) in color. Occurs only from 92 to 100 cm and from 106 to 107 cm in Section1.
The core is disturbed, and drill biscuits are fractured.

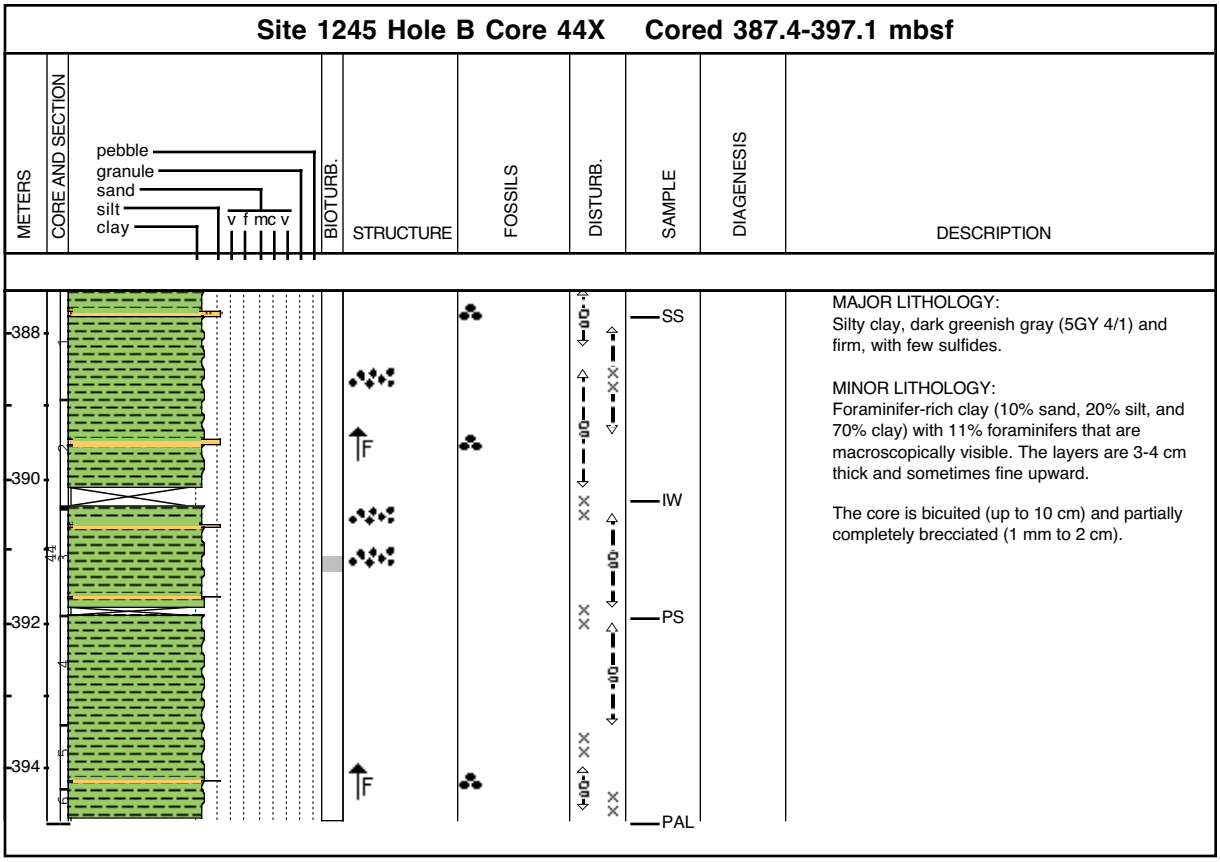
Core Photo


Site 1245 Hole B Core 42X Cored 368.2-377.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
370
372
374
376
42
1
2
3
4
5
6
7
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Indurated clay, dark greenish gray (5GY 4/1). Occurs throughout the core and contains little to no biogenic material.
Biscuits range in size from 1 to 6 cm in length and are often fractured internally.

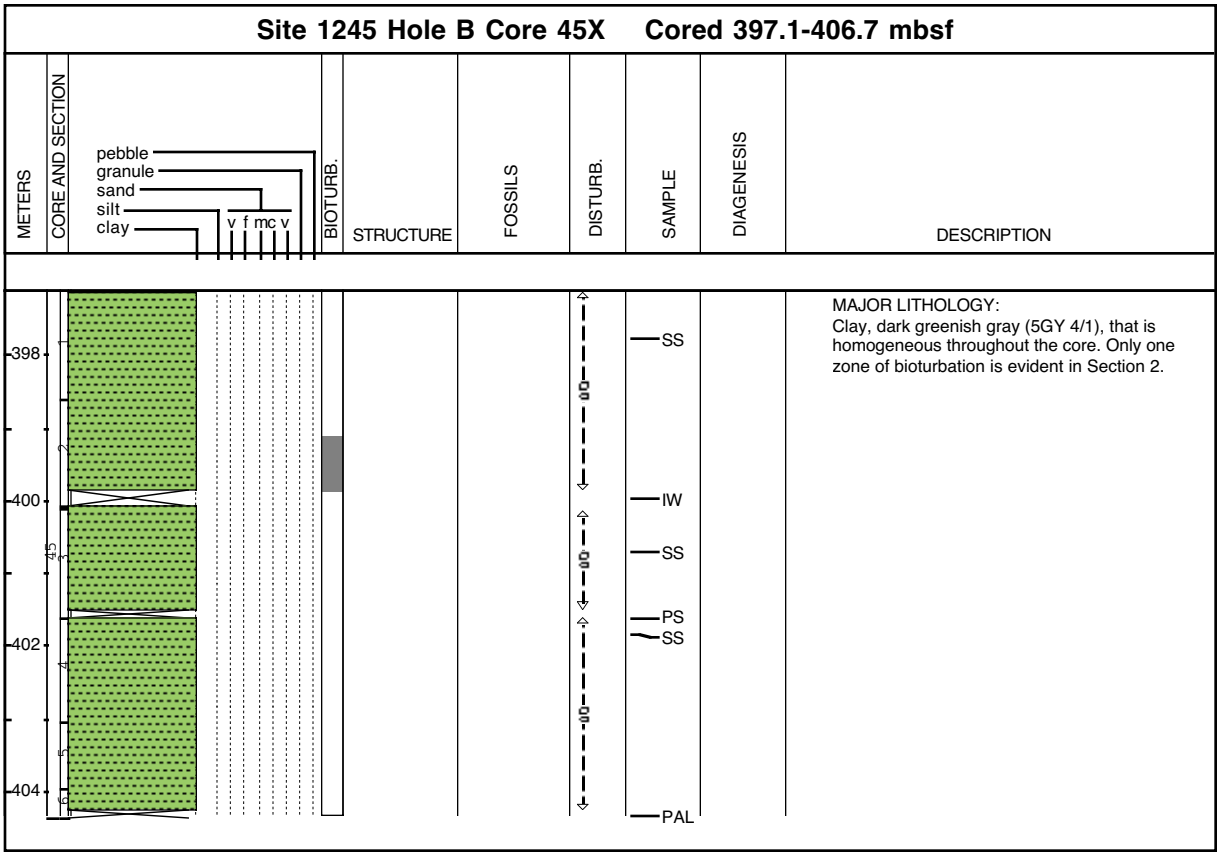
Core Photo


Site 1245 Hole B Core 43X Cored 377.8-387.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
378
380
382
384
SS
SS
PS
MBI
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) and firm, with some rare bioturbation and mottled structure.
MINOR LITHOLOGY:
Nannofossil-rich silty clay occurs in Section 3 (25-26 cm) as a 3-mm-thick layer with 15% nannofossils.
Nannofossil-rich clay, dark greenish gray (5GY 4/1) and firm. Occurs in Section 5 and 6 and contains 20% nannofossils.

Core Photo

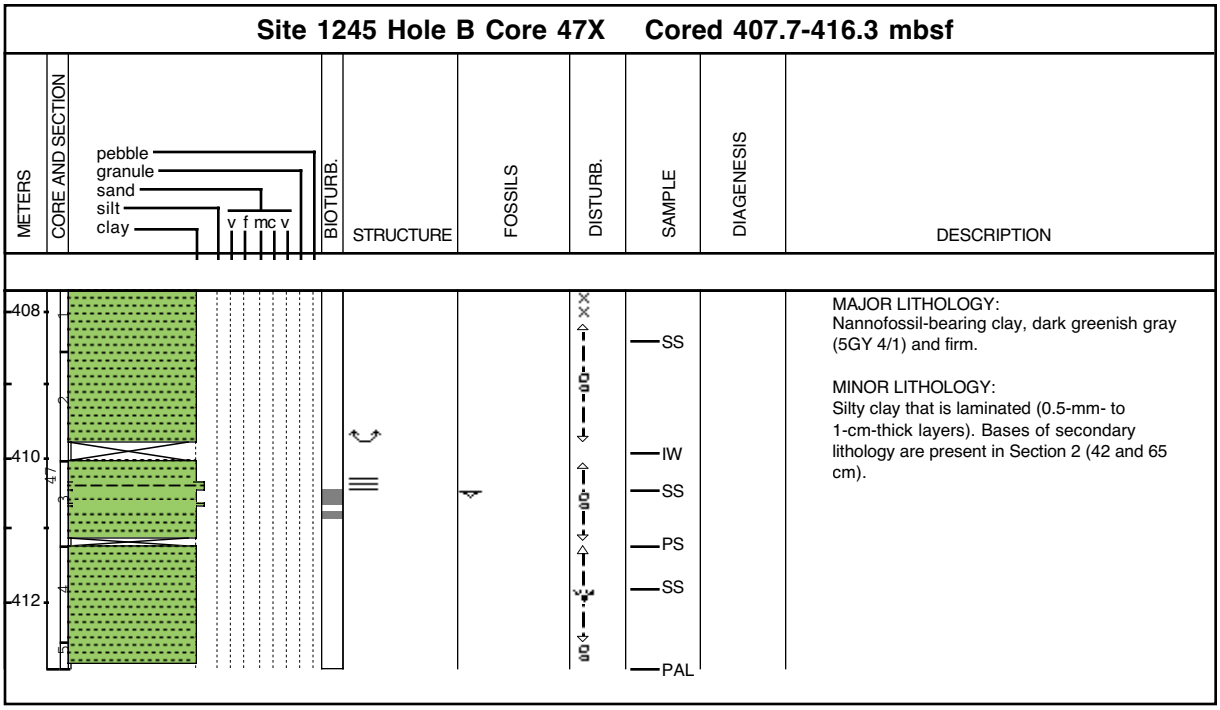

Site 1245 Hole B Core 44X Cored 387.4-397.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
388
390
392
394
SS
IW
PS
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) and firm, with few sulfides.
MINOR LITHOLOGY:
Foraminifer-rich clay (10% sand, 20% silt, and 70% clay) with 11% foraminifers that are macroscopically visible. The layers are 3-4 cm thick and sometimes fine upward.
The core is bicuited (up to 10 cm) and partially completely brecciated (1 mm to 2 cm).

Core Photo

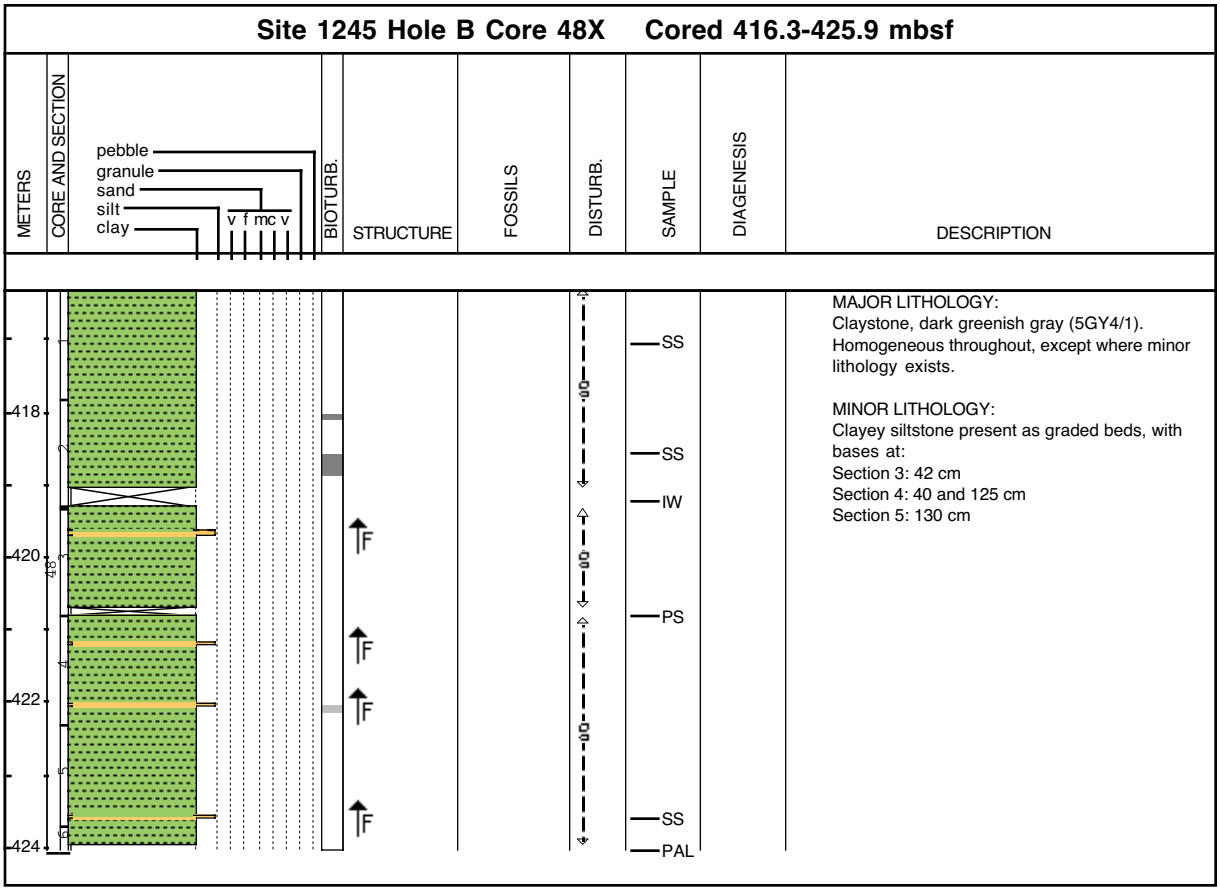


1245B-46E Fugro Pressure Core not described.

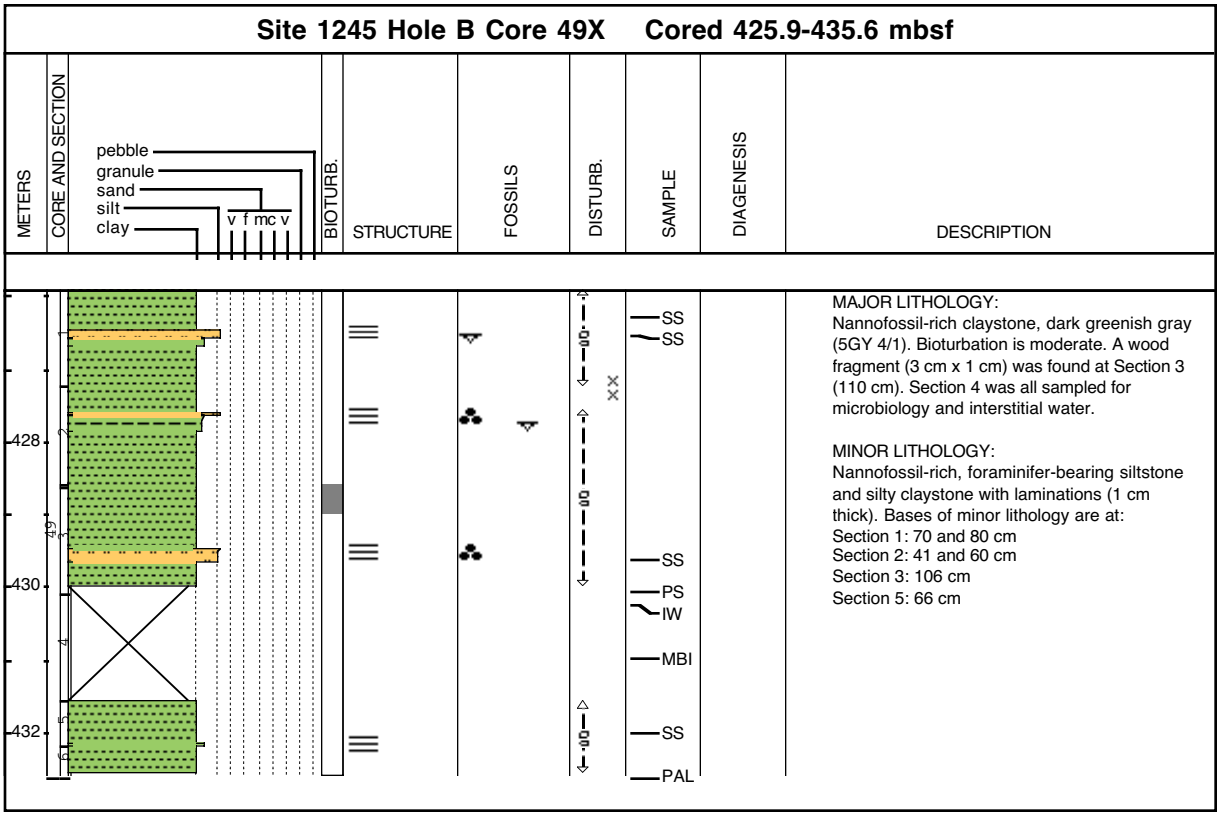
Core Photo


Site 1245 Hole B Core 47X Cored 407.7-416.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
408
410
412
SS
IW
SS
PS
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-bearing clay, dark greenish gray (5GY 4/1) and firm.
MINOR LITHOLOGY:
Silty clay that is laminated (0.5-mm- to 1-cm-thick layers). Bases of secondary lithology are present in Section 2 (42 and 65 cm).

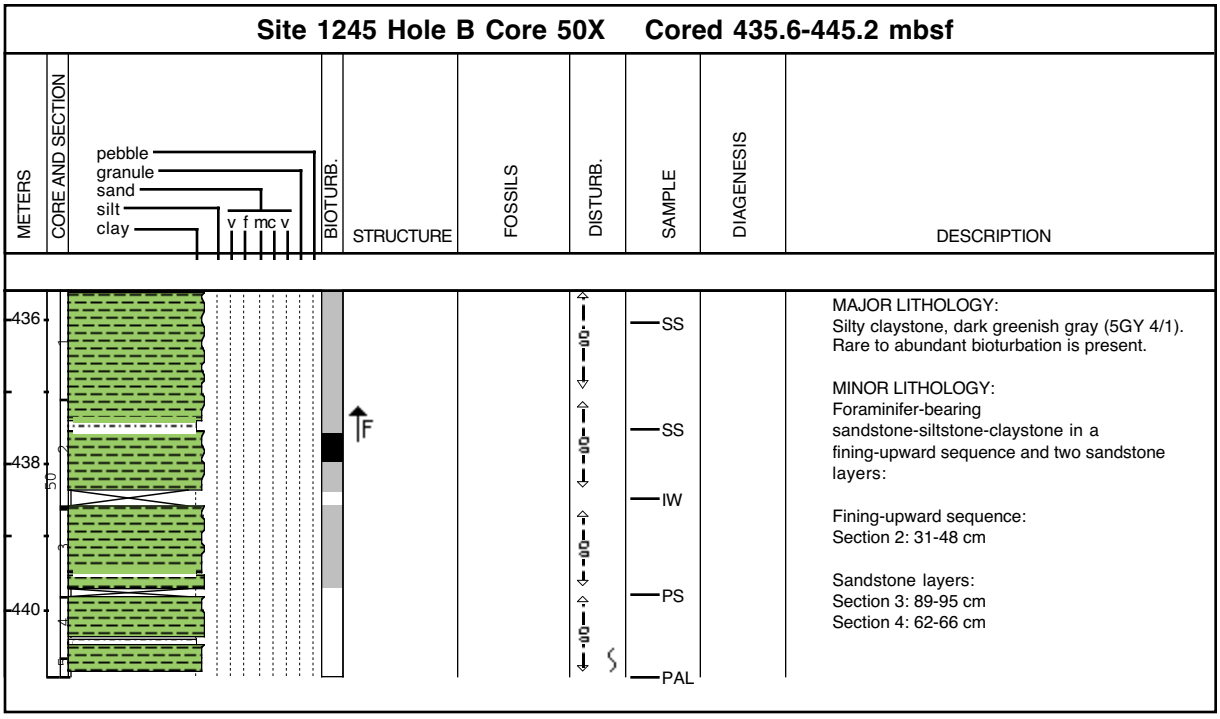
Core Photo


Site 1245 Hole B Core 48X Cored 416.3-425.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
418
420
422
424
48
1
2
3
4
5
6
F
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Claystone, dark greenish gray (5GY4/1).
Homogeneous throughout, except where minor lithology exists.
MINOR LITHOLOGY:
Clayey siltstone present as graded beds, with bases at:
Section 3: 42 cm
Section 4: 40 and 125 cm
Section 5: 130 cm

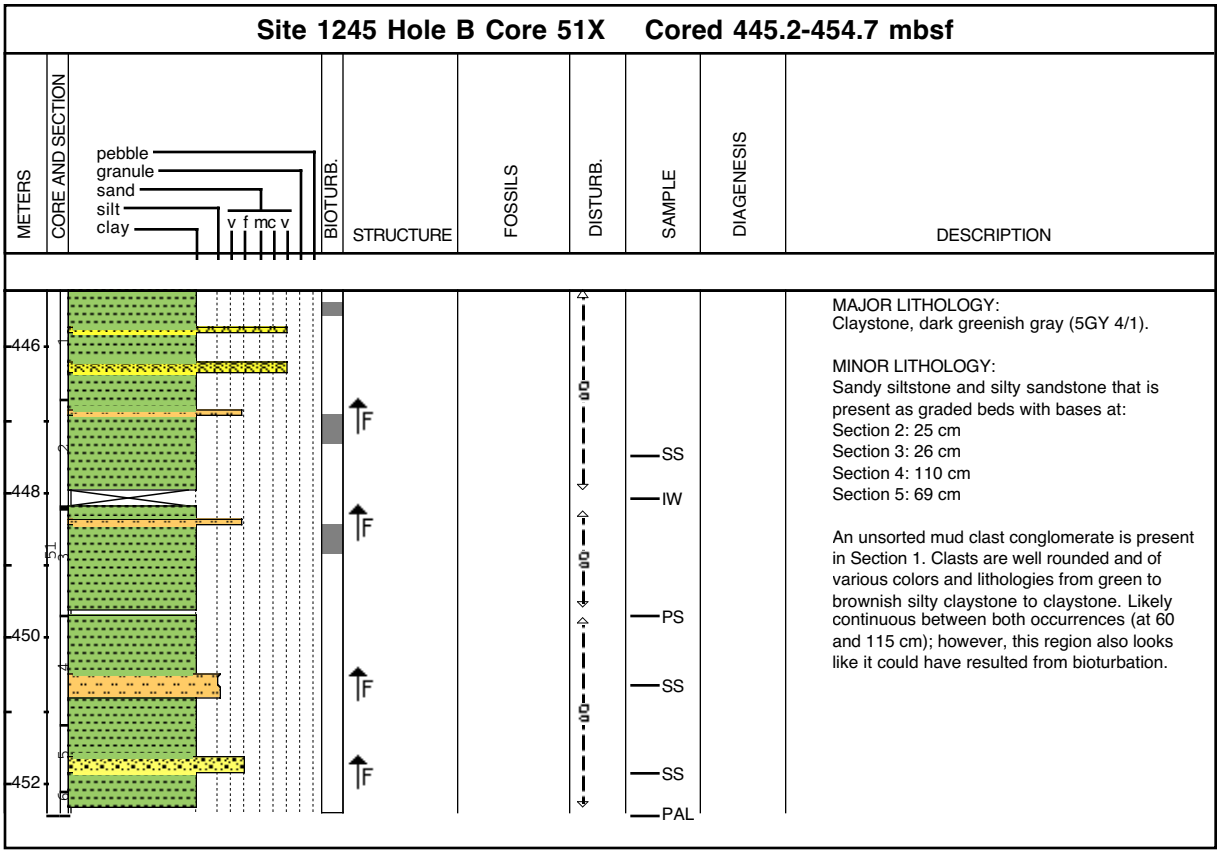
Core Photo


Site 1245 Hole B Core 49X Cored 425.9-435.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
428
430
432
49
1
2
3
4
5
6
SS
SS
SS
PS
IW
MBI
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-rich claystone, dark greenish gray (5GY 4/1). Bioturbation is moderate. A wood fragment (3 cm x 1 cm) was found at Section 3 (110 cm). Section 4 was all sampled for microbiology and interstitial water.
MINOR LITHOLOGY:
Nannofossil-rich, foraminifer-bearing siltstone and silty claystone with laminations (1 cm thick). Bases of minor lithology are at:
Section 1: 70 and 80 cm
Section 2: 41 and 60 cm
Section 3: 106 cm
Section 5: 66 cm

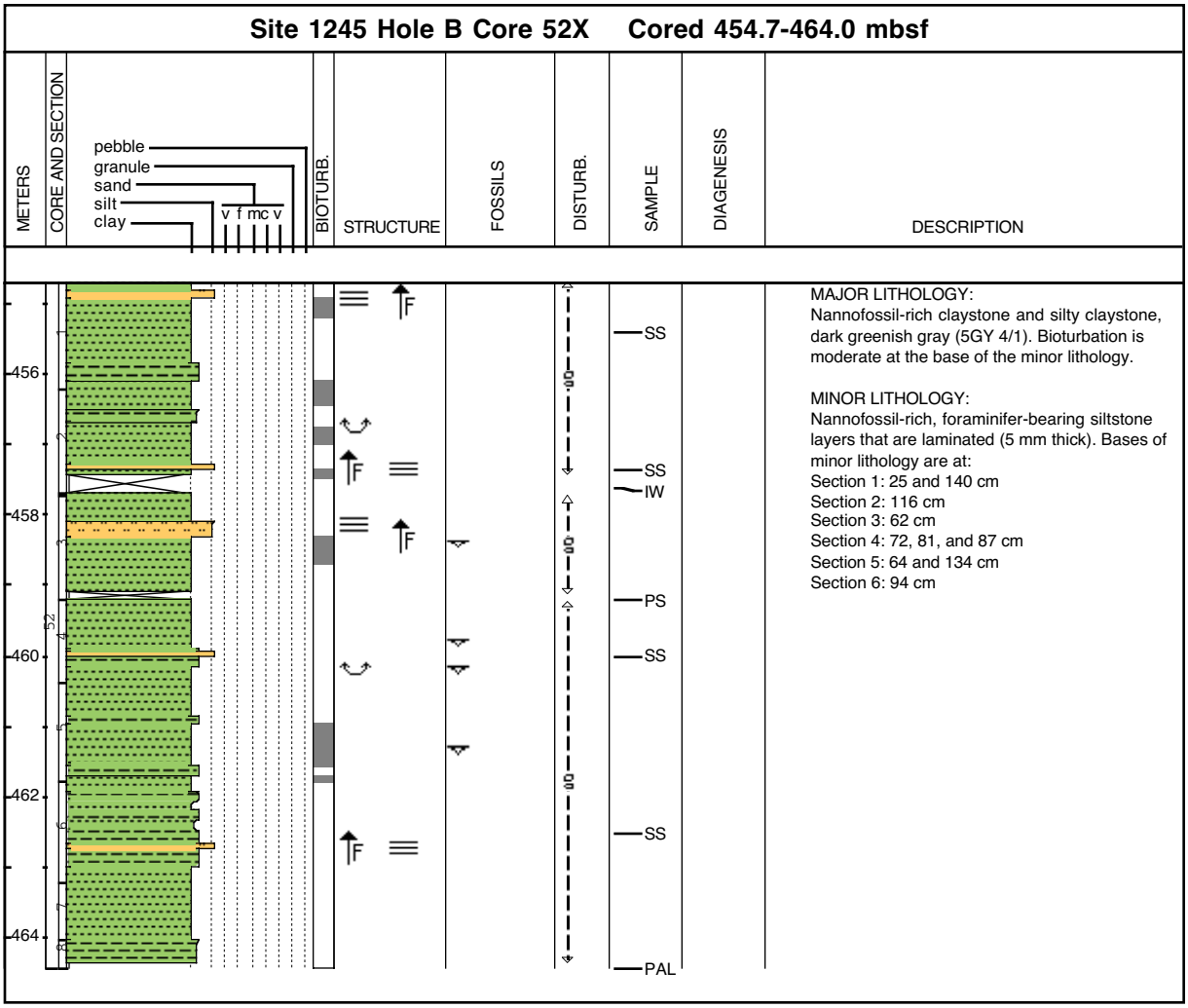
Core Photo


Site 1245 Hole B Core 50X Cored 435.6-445.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
436
438
440
50
1
2
3
4
5
F
SS
SS
IW
PS
PAL
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1).
Rare to abundant bioturbation is present.
MINOR LITHOLOGY:
Foraminifer-bearing
sandstone-siltstone-claystone in a
fining-upward sequence and two sandstone
layers:
Fining-upward sequence:
Section 2: 31-48 cm
Sandstone layers:
Section 3: 89-95 cm
Section 4: 62-66 cm

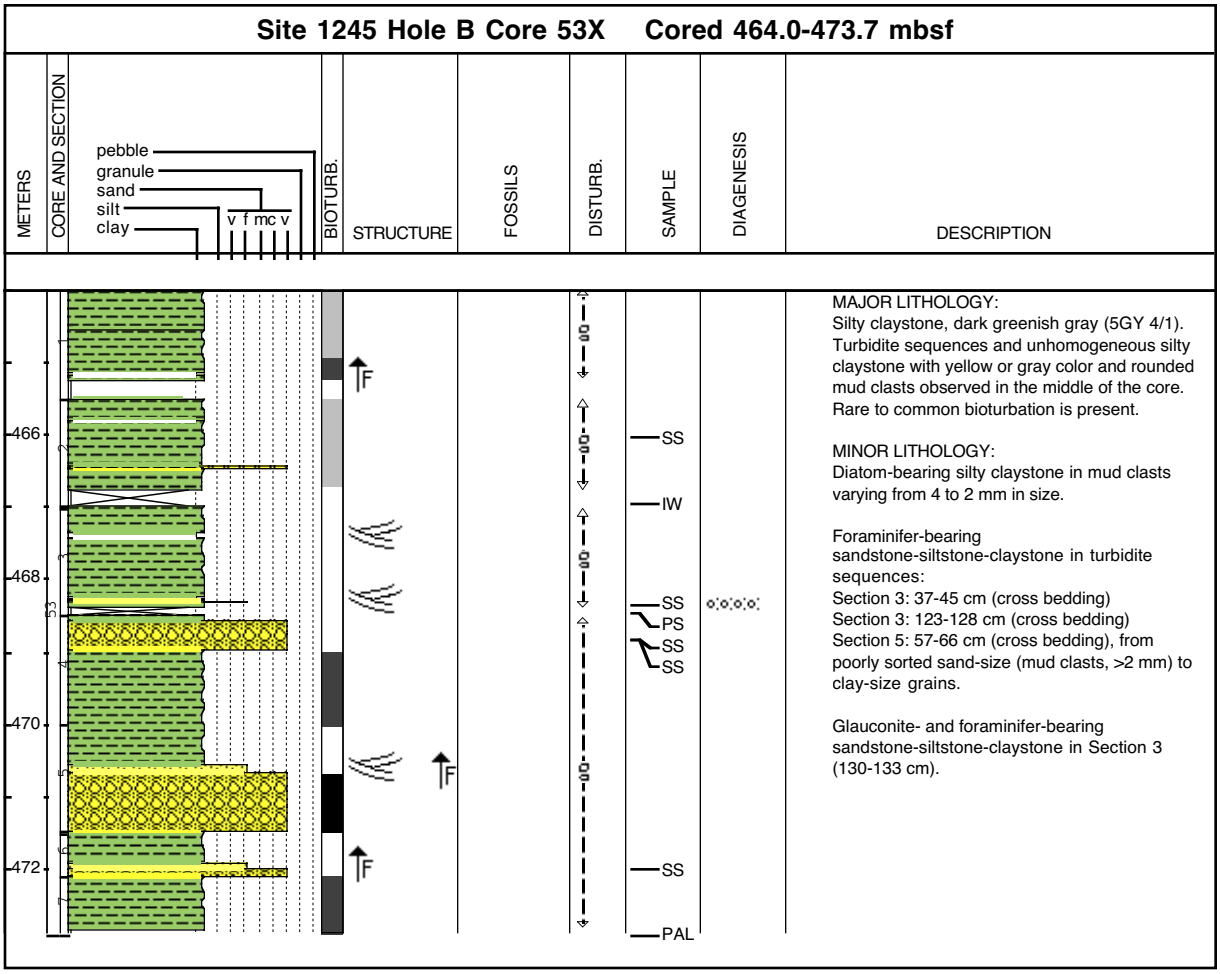
Core Photo


Site 1245 Hole B Core 51X Cored 445.2-454.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
446
448
450
452
51
1
2
3
4
5
6
F
SS
IW
PS
SS
SS
PAL
MAJOR LITHOLOGY:
Claystone, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Sandy siltstone and silty sandstone that is present as graded beds with bases at:
Section 2: 25 cm
Section 3: 26 cm
Section 4: 110 cm
Section 5: 69 cm
An unsorted mud clast conglomerate is present in Section 1. Clasts are well rounded and of various colors and lithologies from green to brownish silty claystone to claystone. Likely continuous between both occurrences (at 60 and 115 cm); however, this region also looks like it could have resulted from bioturbation.

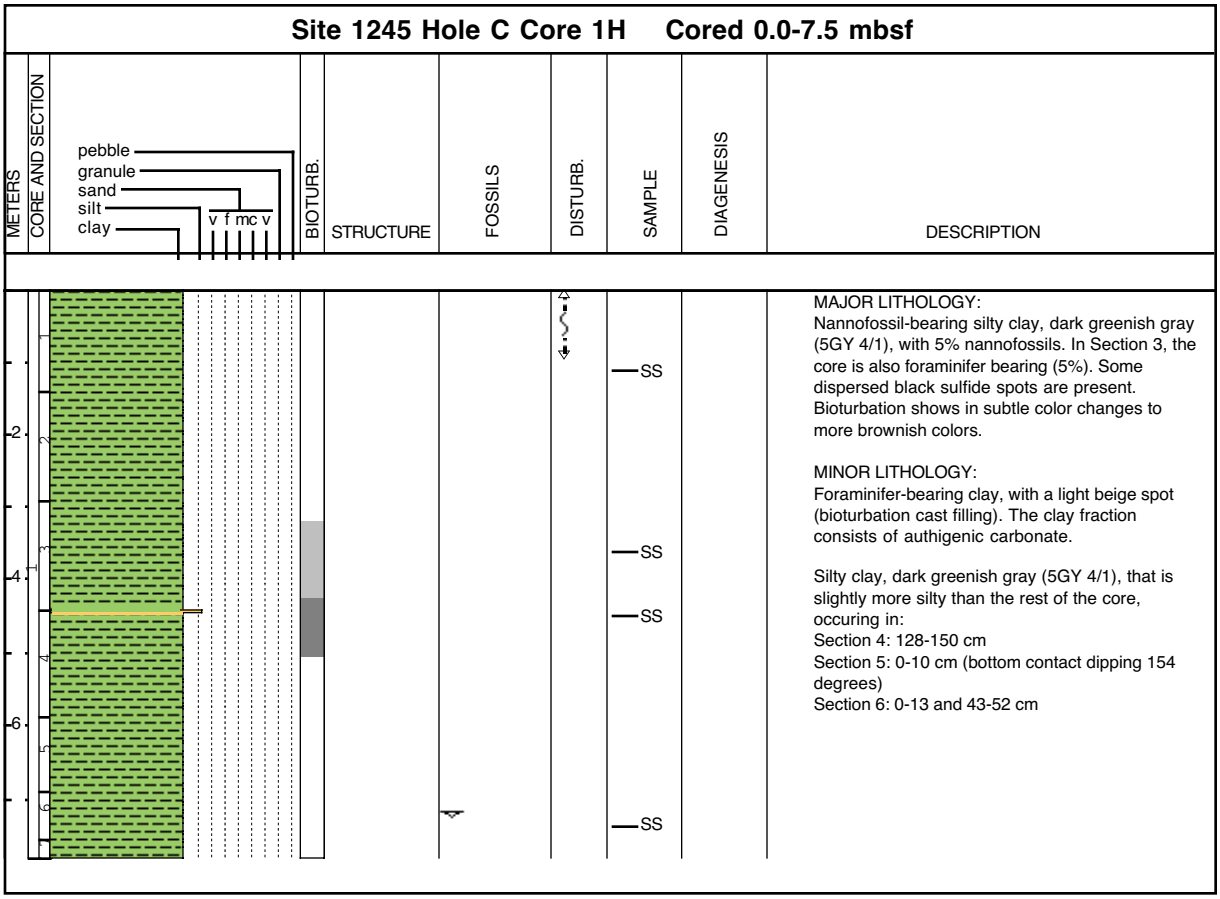
Core Photo


Site 1245 Hole B Core 52X Cored 454.7-464.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
456
458
460
462
464
52
SS
SS
IW
PS
SS
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-rich claystone and silty claystone, dark greenish gray (5GY 4/1). Bioturbation is moderate at the base of the minor lithology.
MINOR LITHOLOGY:
Nannofossil-rich, foraminifer-bearing siltstone layers that are laminated (5 mm thick). Bases of minor lithology are at:
Section 1: 25 and 140 cm
Section 2: 116 cm
Section 3: 62 cm
Section 4: 72, 81, and 87 cm
Section 5: 64 and 134 cm
Section 6: 94 cm

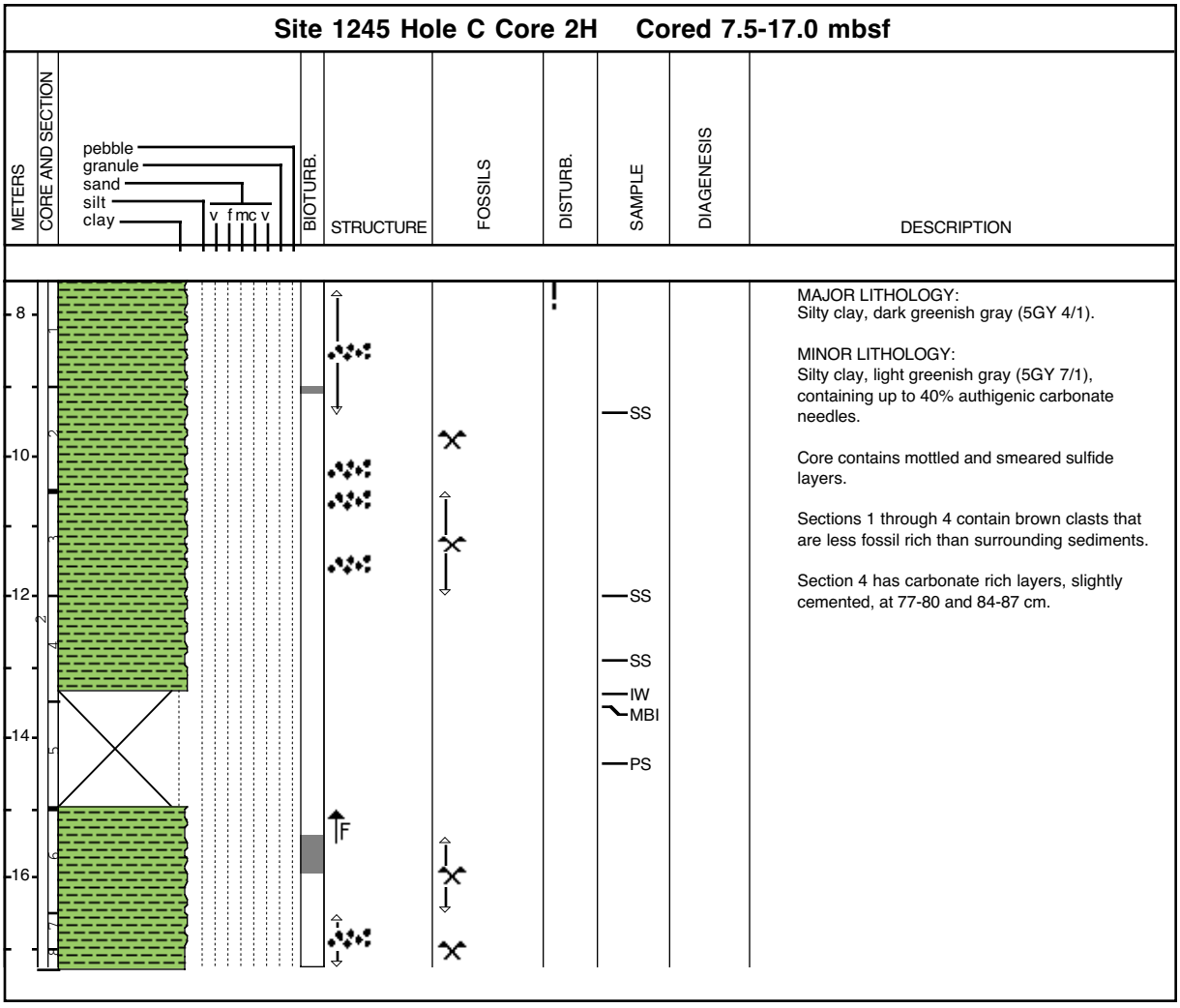
Core Photo


Site 1245 Hole B Core 53X Cored 464.0-473.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
466
468
470
472
53
SS
IW
SS
PS
SS
SS
SS
PAL
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1). Turbidite sequences and unhomogeneous silty claystone with yellow or gray color and rounded mud clasts observed in the middle of the core. Rare to common bioturbation is present.
MINOR LITHOLOGY:
Diatom-bearing silty claystone in mud clasts varying from 4 to 2 mm in size.
Foraminifer-bearing sandstone-siltstone-claystone in turbidite sequences:
Section 3: 37-45 cm (cross bedding)
Section 3: 123-128 cm (cross bedding)
Section 5: 57-66 cm (cross bedding), from poorly sorted sand-size (mud clasts, >2 mm) to clay-size grains.
Glauconite- and foraminifer-bearing sandstone-siltstone-claystone in Section 3 (130-133 cm).

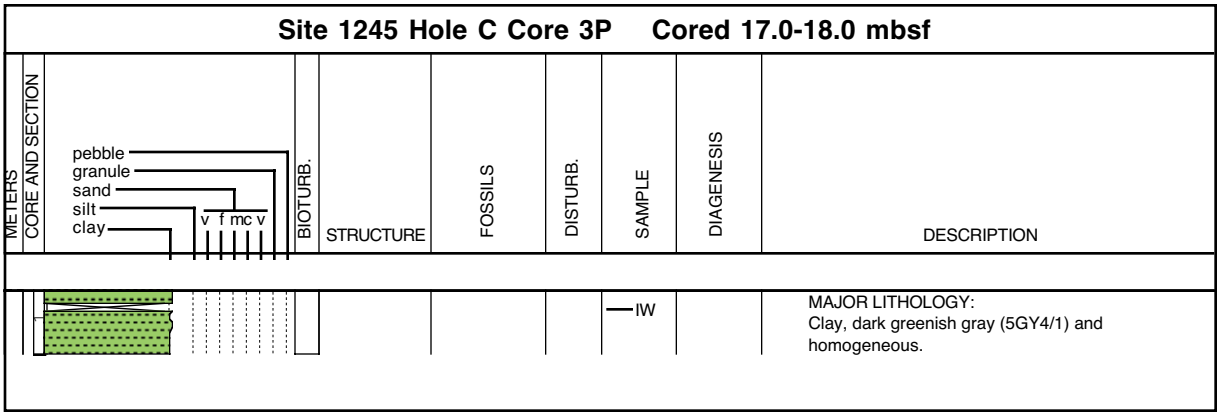
Core Photo


Site 1245 Hole C Core 1H Cored 0.0-7.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
SS
SS
SS
SS
MAJOR LITHOLOGY:
Nannofossil-bearing silty clay, dark greenish gray (5GY 4/1), with 5% nannofossils. In Section 3, the core is also foraminifer bearing (5%). Some dispersed black sulfide spots are present. Bioturbation shows in subtle color changes to more brownish colors.
MINOR LITHOLOGY:
Foraminifer-bearing clay, with a light beige spot (bioturbation cast filling). The clay fraction consists of authigenic carbonate.
Silty clay, dark greenish gray (5GY 4/1), that is slightly more silty than the rest of the core, occuring in:
Section 4: 128-150 cm
Section 5: 0-10 cm (bottom contact dipping 154 degrees)
Section 6: 0-13 and 43-52 cm

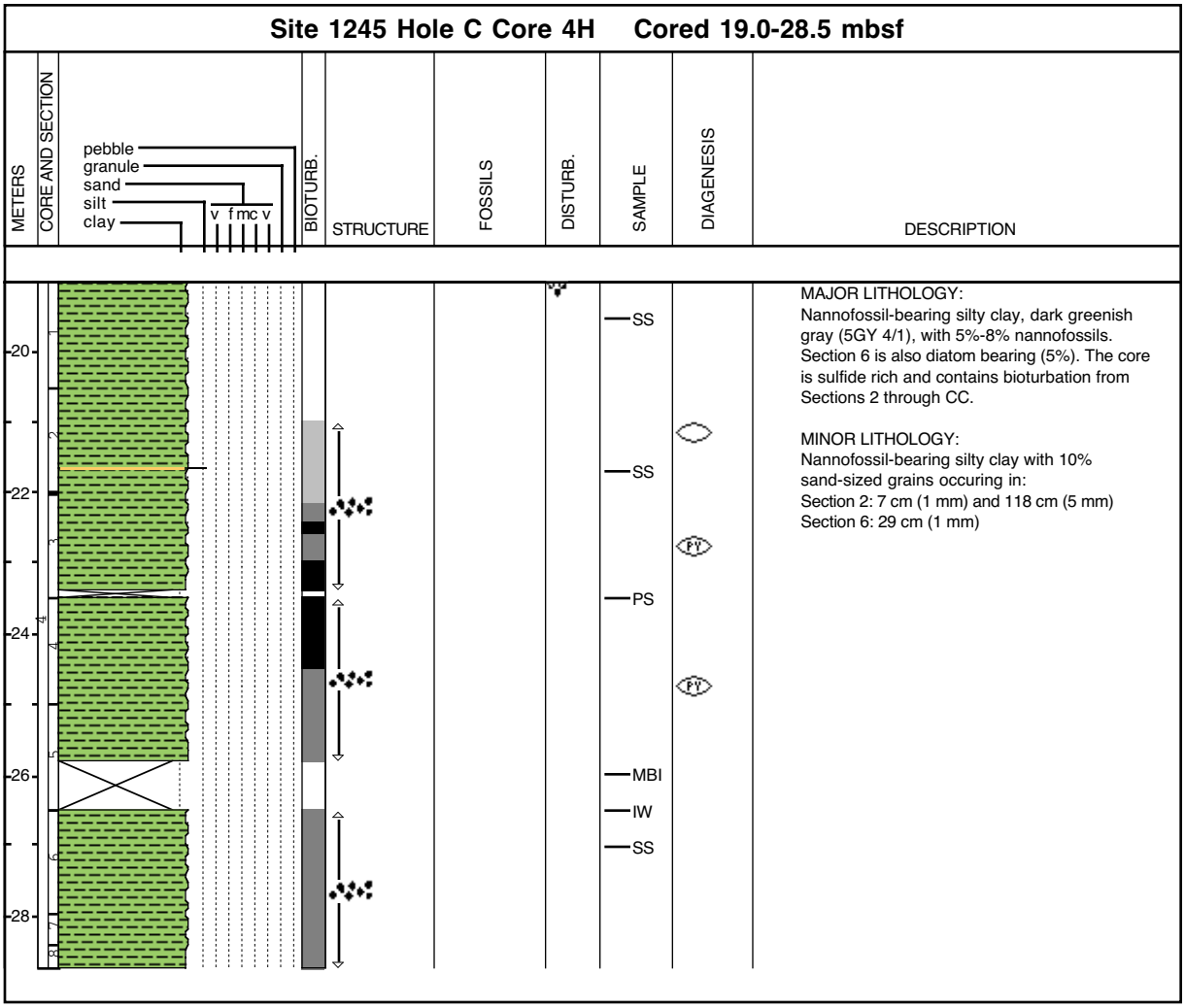
Core Photo


Site 1245 Hole C Core 2H Cored 7.5-17.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
8
10
12
14
16
SS
SS
SS
IW
MBI
PS
F
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Silty clay, light greenish gray (5GY 7/1), containing up to 40% authigenic carbonate needles.
Core contains mottled and smeared sulfide layers.
Sections 1 through 4 contain brown clasts that are less fossil rich than surrounding sediments.
Section 4 has carbonate rich layers, slightly cemented, at 77-80 and 84-87 cm.

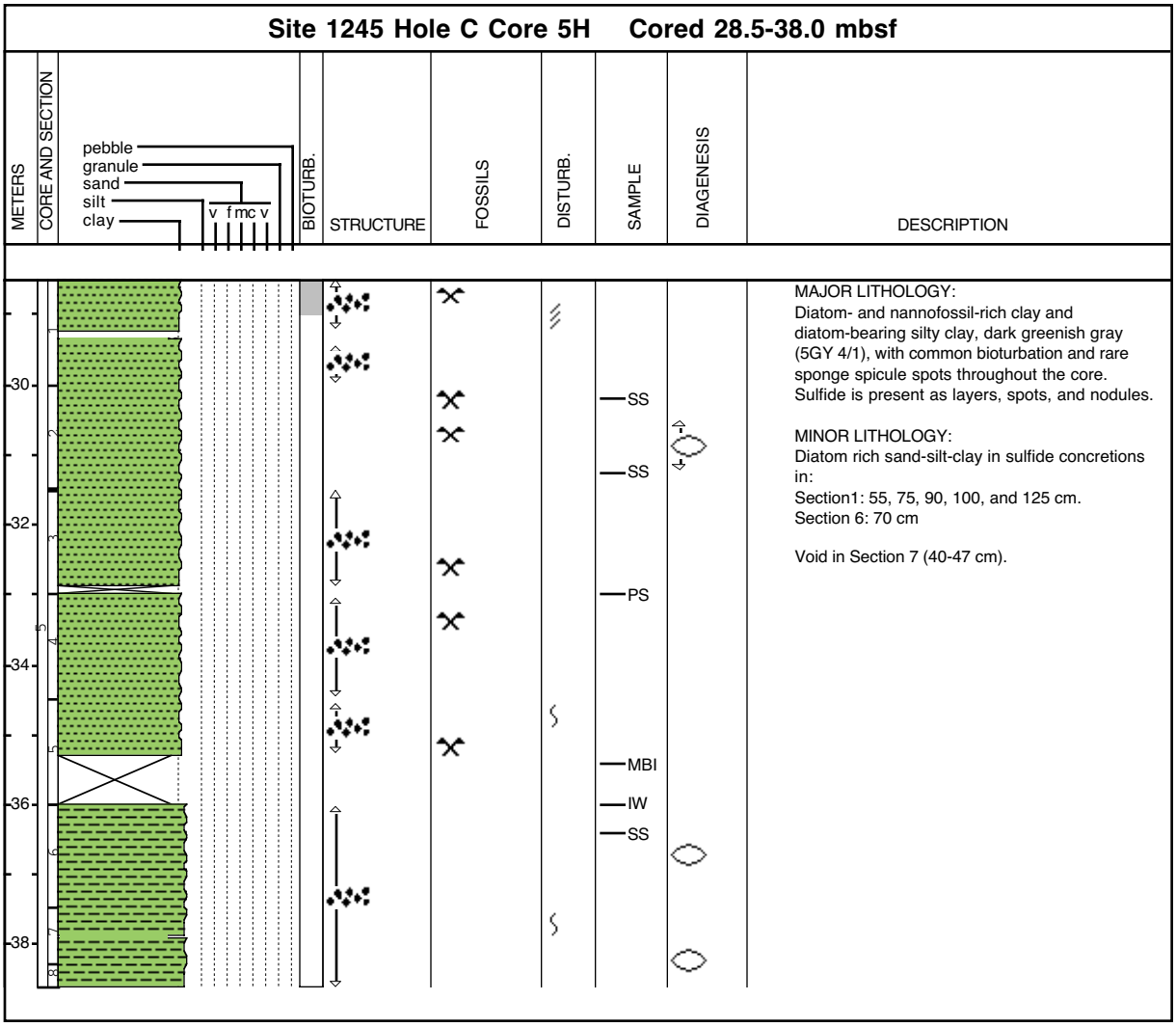
Core Photo


Site 1245 Hole C Core 3P Cored 17.0-18.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
IW
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY4/1) and homogeneous.

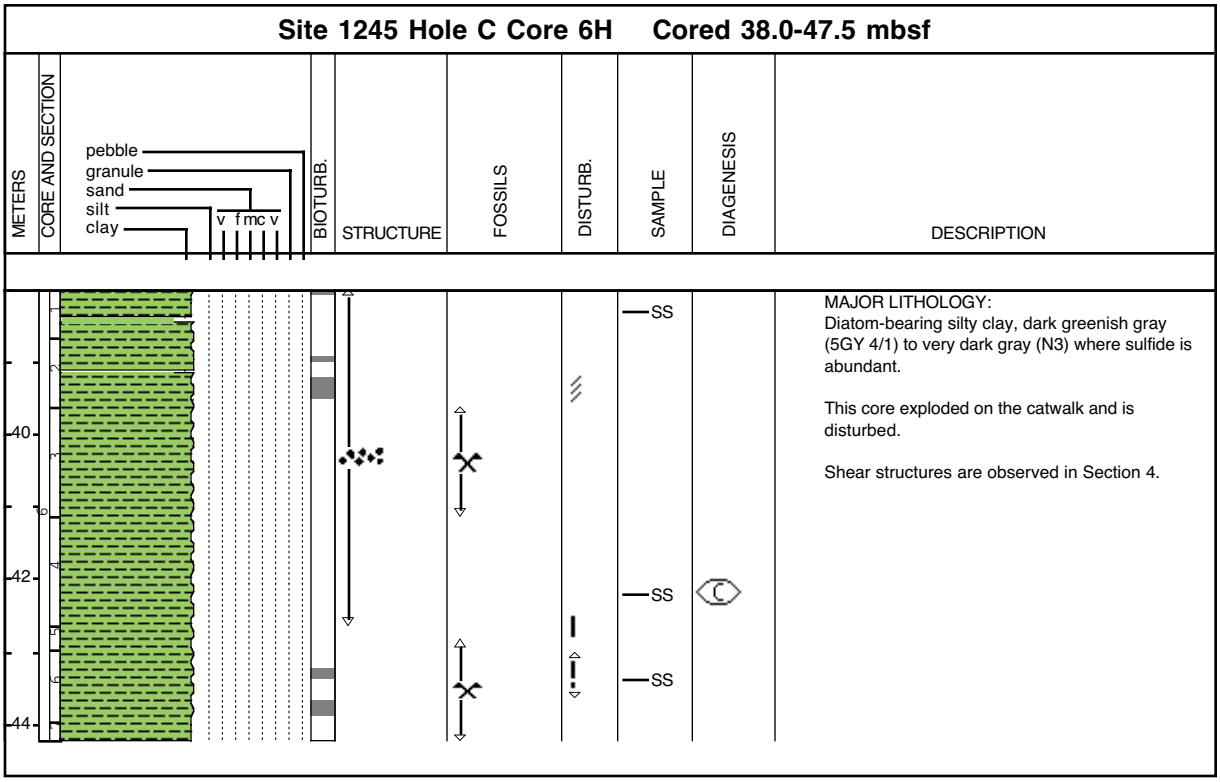
Core Photo


Site 1245 Hole C Core 4H Cored 19.0-28.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
20
22
24
26
28
SS
SS
PS
MBI
IW
SS
PY
PY
MAJOR LITHOLOGY:
Nannofossil-bearing silty clay, dark greenish gray (5GY 4/1), with 5%-8% nannofossils. Section 6 is also diatom bearing (5%). The core is sulfide rich and contains bioturbation from Sections 2 through CC.
MINOR LITHOLOGY:
Nannofossil-bearing silty clay with 10% sand-sized grains occuring in:
Section 2: 7 cm (1 mm) and 118 cm (5 mm)
Section 6: 29 cm (1 mm)

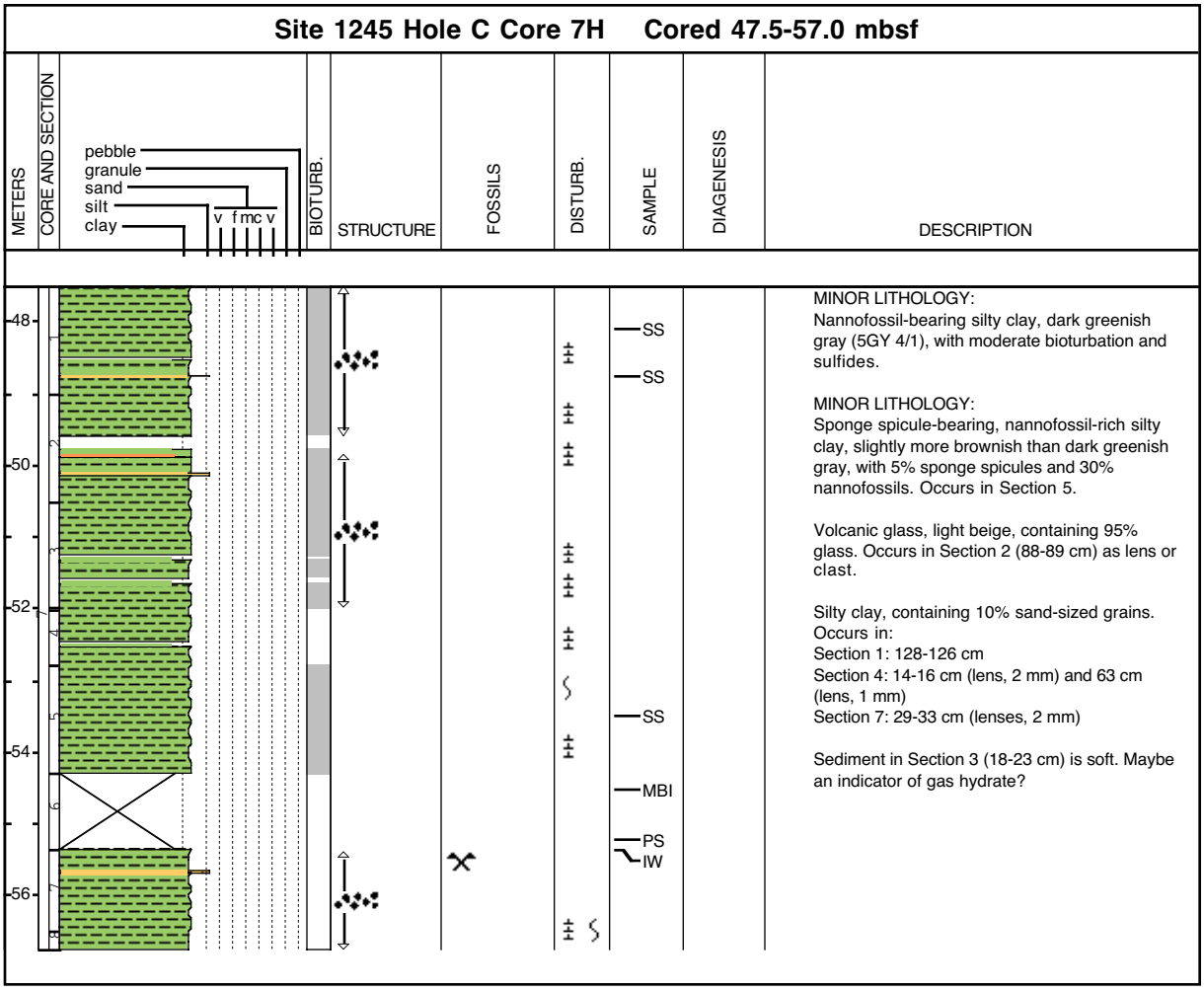
Core Photo


Site 1245 Hole C Core 5H Cored 28.5-38.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
30
32
34
36
38
SS
SS
PS
MBI
IW
SS
MAJOR LITHOLOGY:
Diatom- and nannofossil-rich clay and diatom-bearing silty clay, dark greenish gray (5GY 4/1), with common bioturbation and rare sponge spicule spots throughout the core. Sulfide is present as layers, spots, and nodules.
MINOR LITHOLOGY:
Diatom rich sand-silt-clay in sulfide concretions in:
Section1: 55, 75, 90, 100, and 125 cm.
Section 6: 70 cm
Void in Section 7 (40-47 cm).

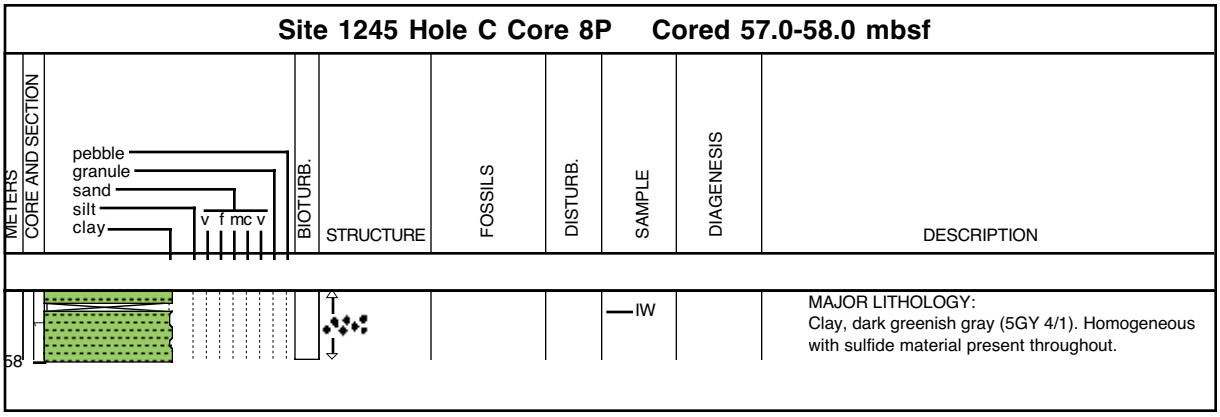
Core Photo


Site 1245 Hole C Core 6H Cored 38.0-47.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
40
42
44
SS
SS
SS
C
MAJOR LITHOLOGY:
Diatom-bearing silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide is abundant.
This core exploded on the catwalk and is disturbed.
Shear structures are observed in Section 4.

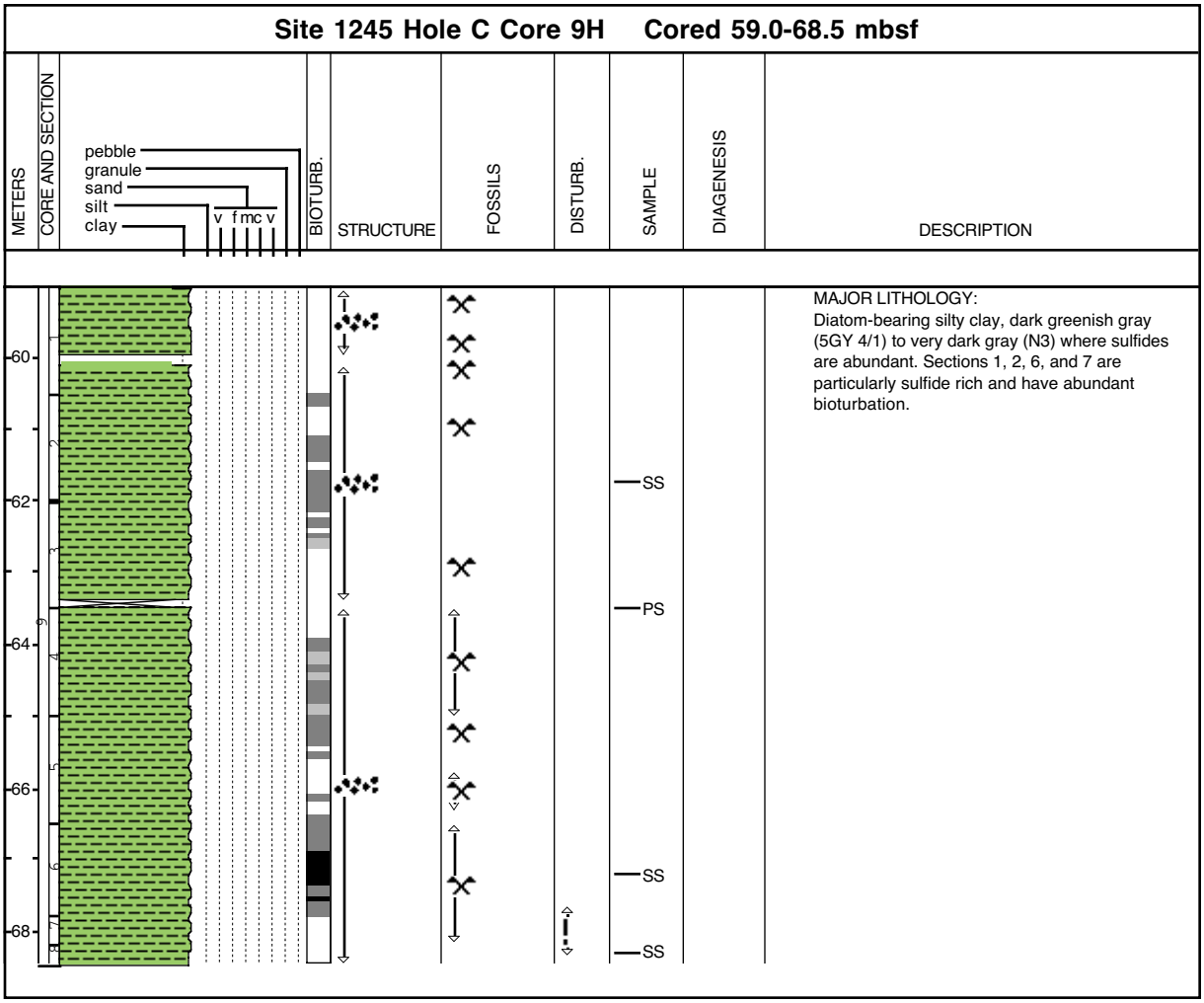
Core Photo


Site 1245 Hole C Core 7H Cored 47.5-57.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
48
50
52
54
56
SS
SS
SS
MBI
PS
IW
MINOR LITHOLOGY:
Nannofossil-bearing silty clay, dark greenish gray (5GY 4/1), with moderate bioturbation and sulfides.
MINOR LITHOLOGY:
Sponge spicule-bearing, nannofossil-rich silty clay, slightly more brownish than dark greenish gray, with 5% sponge spicules and 30% nannofossils. Occurs in Section 5.
Volcanic glass, light beige, containing 95% glass. Occurs in Section 2 (88-89 cm) as lens or clast.
Silty clay, containing 10% sand-sized grains. Occurs in:
Section 1: 128-126 cm
Section 4: 14-16 cm (lens, 2 mm) and 63 cm (lens, 1 mm)
Section 7: 29-33 cm (lenses, 2 mm)
Sediment in Section 3 (18-23 cm) is soft. Maybe an indicator of gas hydrate?

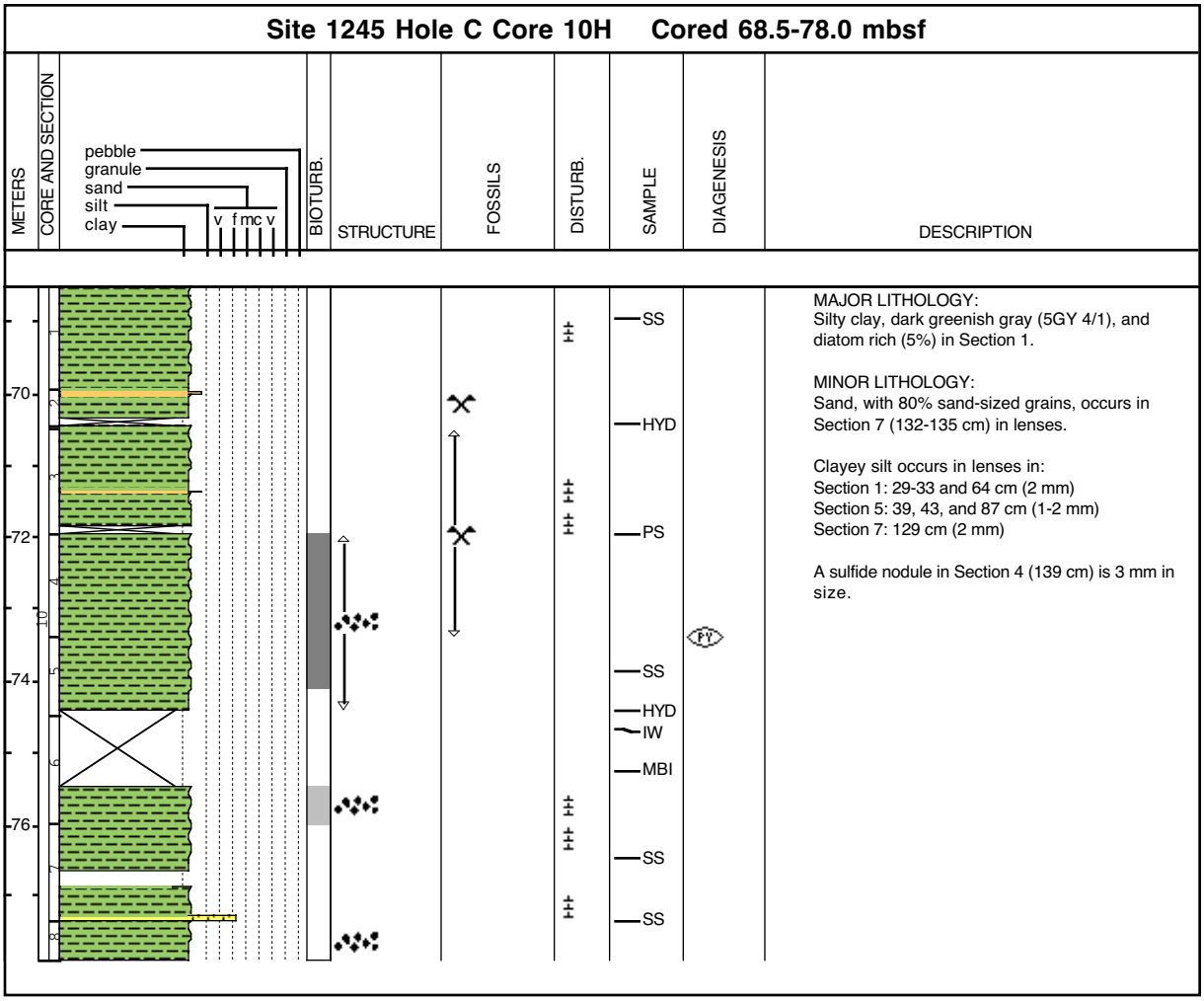
Core Photo


Site 1245 Hole C Core 8P Cored 57.0-58.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
IW
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Homogeneous with sulfide material present throughout.
58

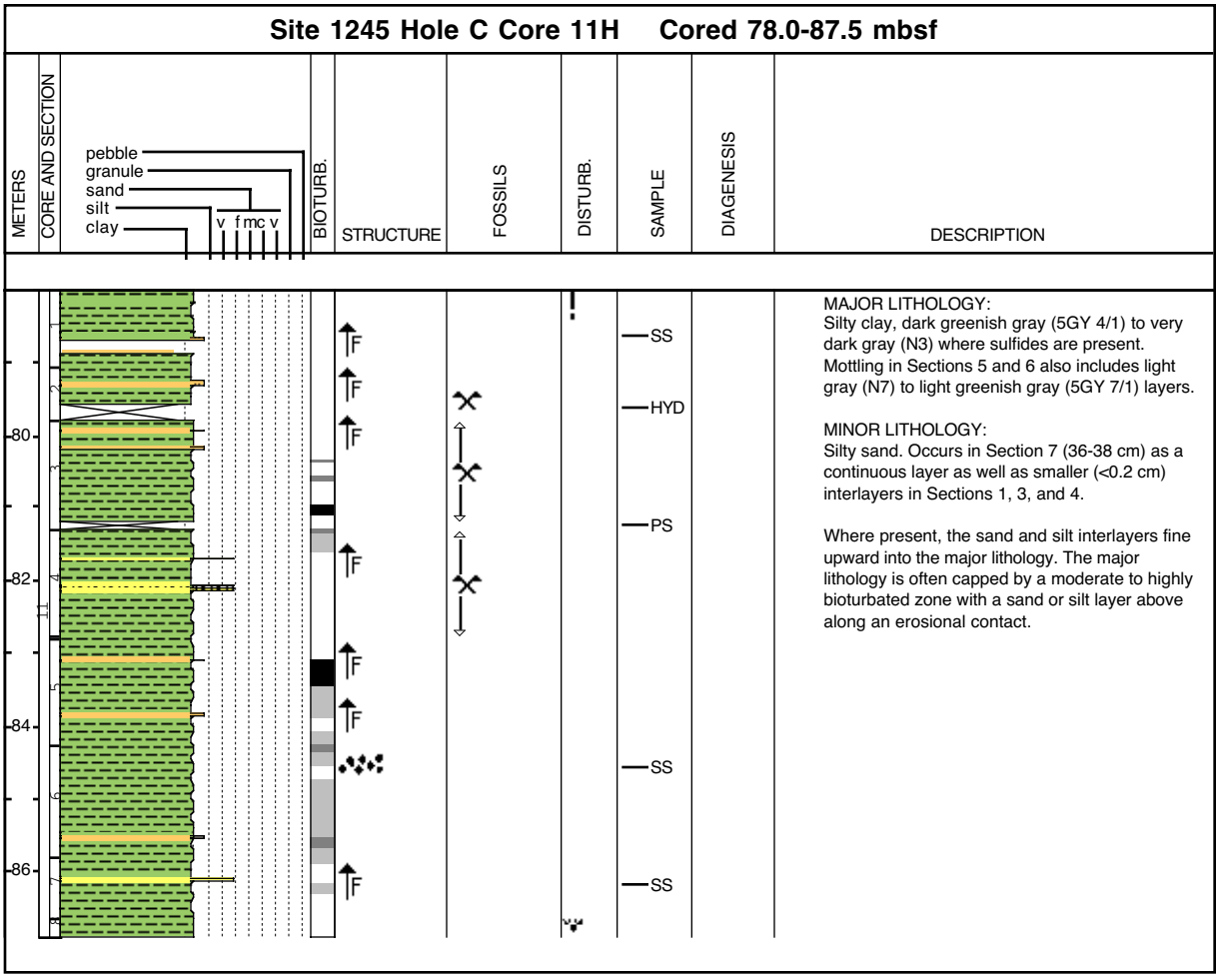
Core Photo


Site 1245 Hole C Core 9H Cored 59.0-68.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
60
62
64
66
68
SS
PS
SS
SS
MAJOR LITHOLOGY:
Diatom-bearing silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfides are abundant. Sections 1, 2, 6, and 7 are particularly sulfide rich and have abundant bioturbation.

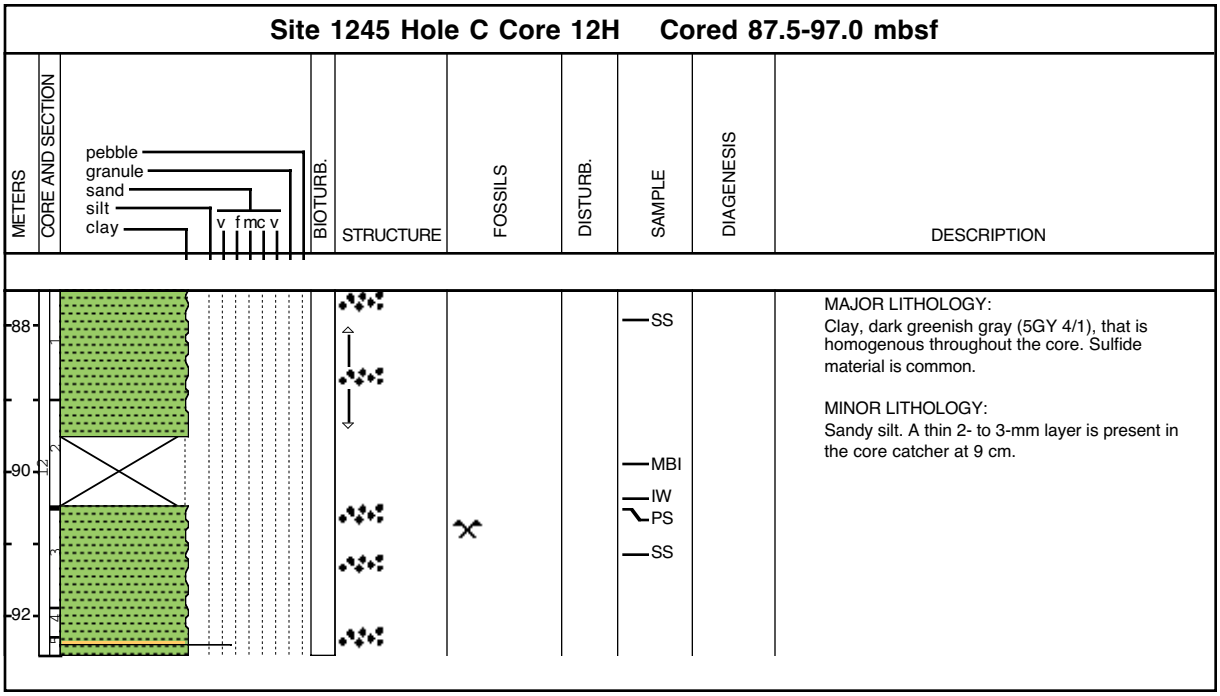
Core Photo


Site 1245 Hole C Core 10H Cored 68.5-78.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
70
72
74
76
SS
HYD
PS
PY
SS
HYD
IW
MBI
SS
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), and diatom rich (5%) in Section 1.
MINOR LITHOLOGY:
Sand, with 80% sand-sized grains, occurs in Section 7 (132-135 cm) in lenses.
Clayey silt occurs in lenses in:
Section 1: 29-33 and 64 cm (2 mm)
Section 5: 39, 43, and 87 cm (1-2 mm)
Section 7: 129 cm (2 mm)
A sulfide nodule in Section 4 (139 cm) is 3 mm in size.

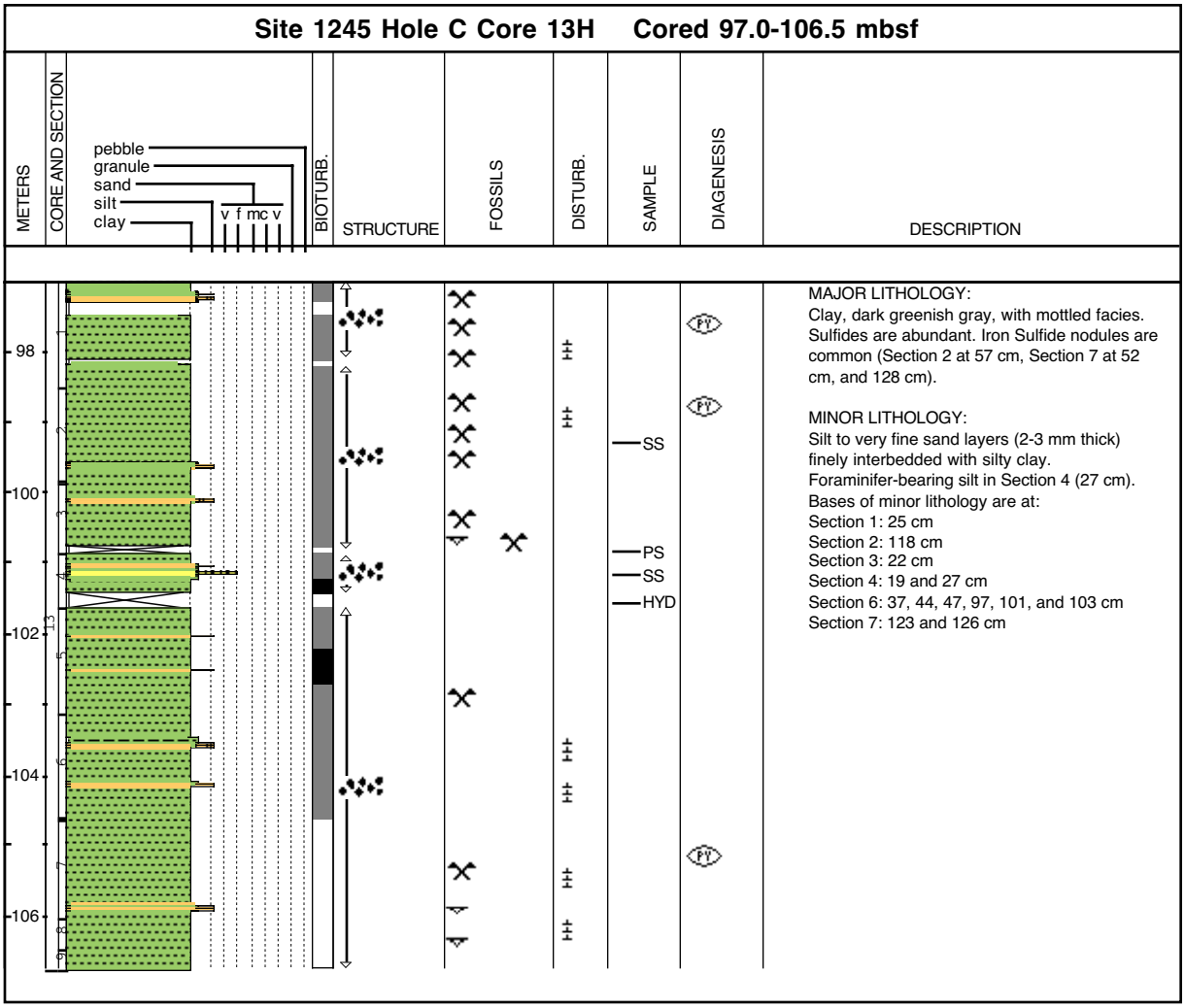
Core Photo


Site 1245 Hole C Core 11H Cored 78.0-87.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
80
82
84
86
SS
HYD
PS
SS
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfides are present. Mottling in Sections 5 and 6 also includes light gray (N7) to light greenish gray (5GY 7/1) layers.
MINOR LITHOLOGY:
Silty sand. Occurs in Section 7 (36-38 cm) as a continuous layer as well as smaller (<0.2 cm) interlayers in Sections 1, 3, and 4.
Where present, the sand and silt interlayers fine upward into the major lithology. The major lithology is often capped by a moderate to highly bioturbated zone with a sand or silt layer above along an erosional contact.

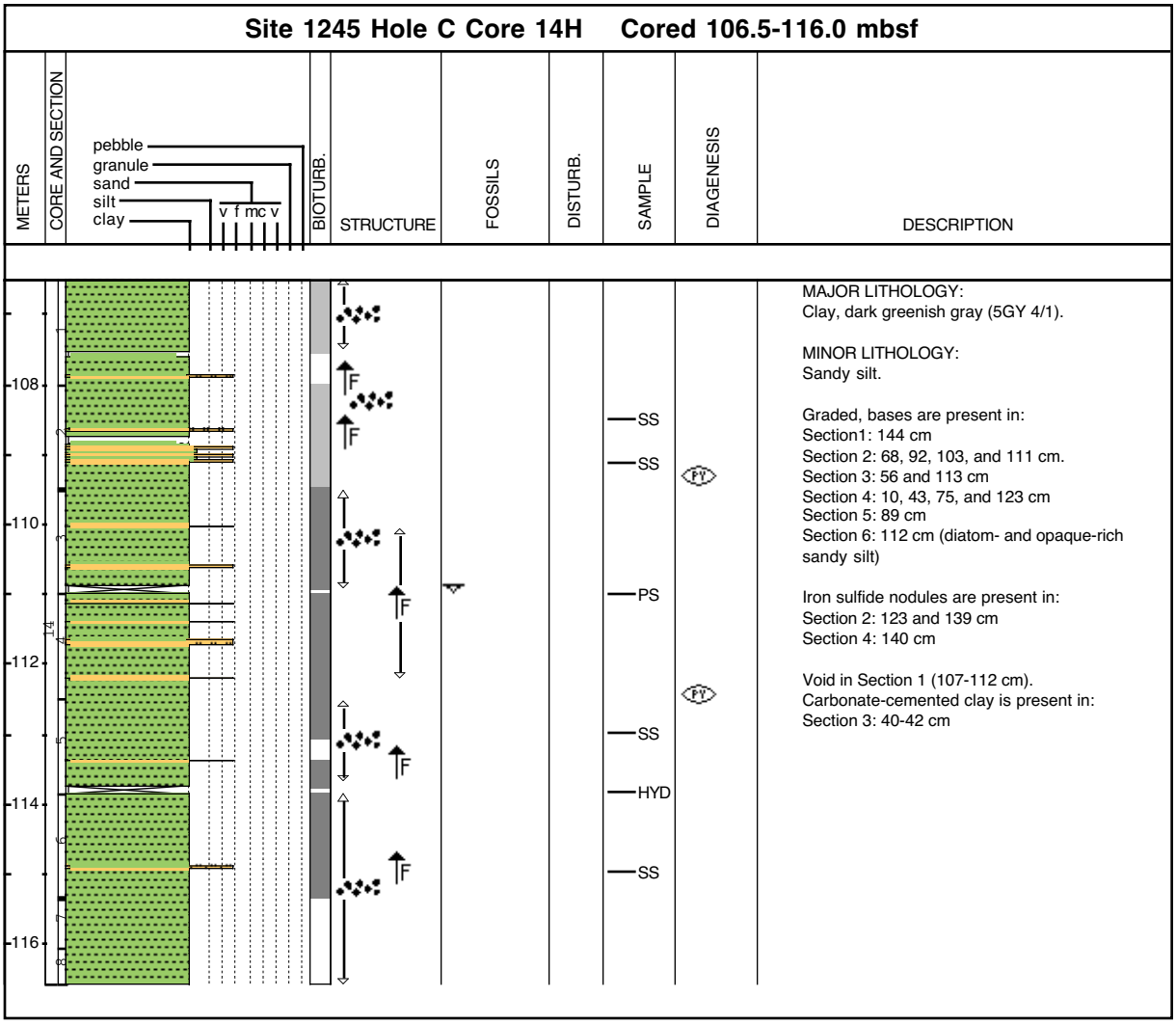
Core Photo


Site 1245 Hole C Core 12H Cored 87.5-97.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
88
90
92
1
2
3
4
SS
MBI
IW
PS
SS
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), that is homogenous throughout the core. Sulfide material is common.
MINOR LITHOLOGY:
Sandy silt. A thin 2- to 3-mm layer is present in the core catcher at 9 cm.

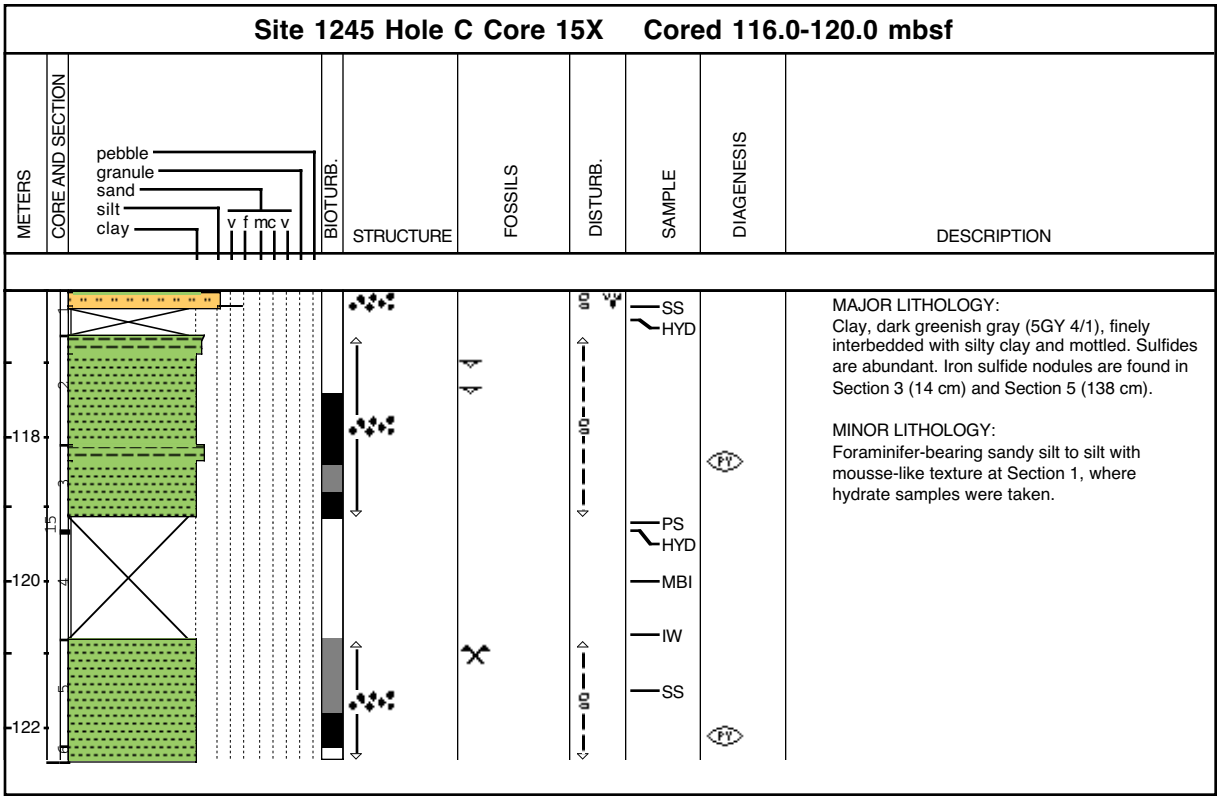
Core Photo


Site 1245 Hole C Core 13H Cored 97.0-106.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
98
100
102
104
106
SS
PS
SS
HYD
FY
MAJOR LITHOLOGY:
Clay, dark greenish gray, with mottled facies. Sulfides are abundant. Iron Sulfide nodules are common (Section 2 at 57 cm, Section 7 at 52 cm, and 128 cm).
MINOR LITHOLOGY:
Silt to very fine sand layers (2-3 mm thick) finely interbedded with silty clay. Foraminifer-bearing silt in Section 4 (27 cm).
Bases of minor lithology are at:
Section 1: 25 cm
Section 2: 118 cm
Section 3: 22 cm
Section 4: 19 and 27 cm
Section 6: 37, 44, 47, 97, 101, and 103 cm
Section 7: 123 and 126 cm

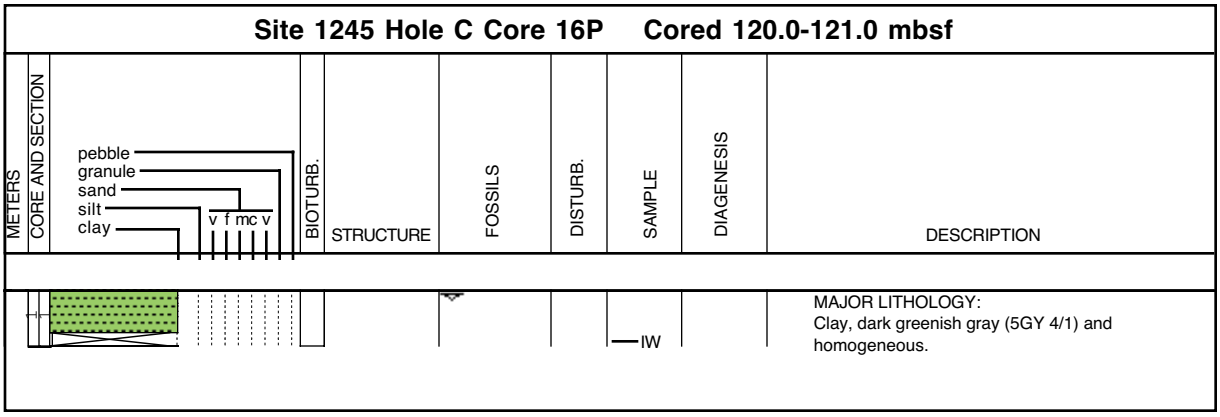
Core Photo


Site 1245 Hole C Core 14H Cored 106.5-116.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
108
110
112
114
116
SS
SS
PS
SS
HYD
SS
PY
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Sandy silt.
Graded, bases are present in:
Section1: 144 cm
Section 2: 68, 92, 103, and 111 cm.
Section 3: 56 and 113 cm
Section 4: 10, 43, 75, and 123 cm
Section 5: 89 cm
Section 6: 112 cm (diatom- and opaque-rich sandy silt)
Iron sulfide nodules are present in:
Section 2: 123 and 139 cm
Section 4: 140 cm
Void in Section 1 (107-112 cm).
Carbonate-cemented clay is present in:
Section 3: 40-42 cm

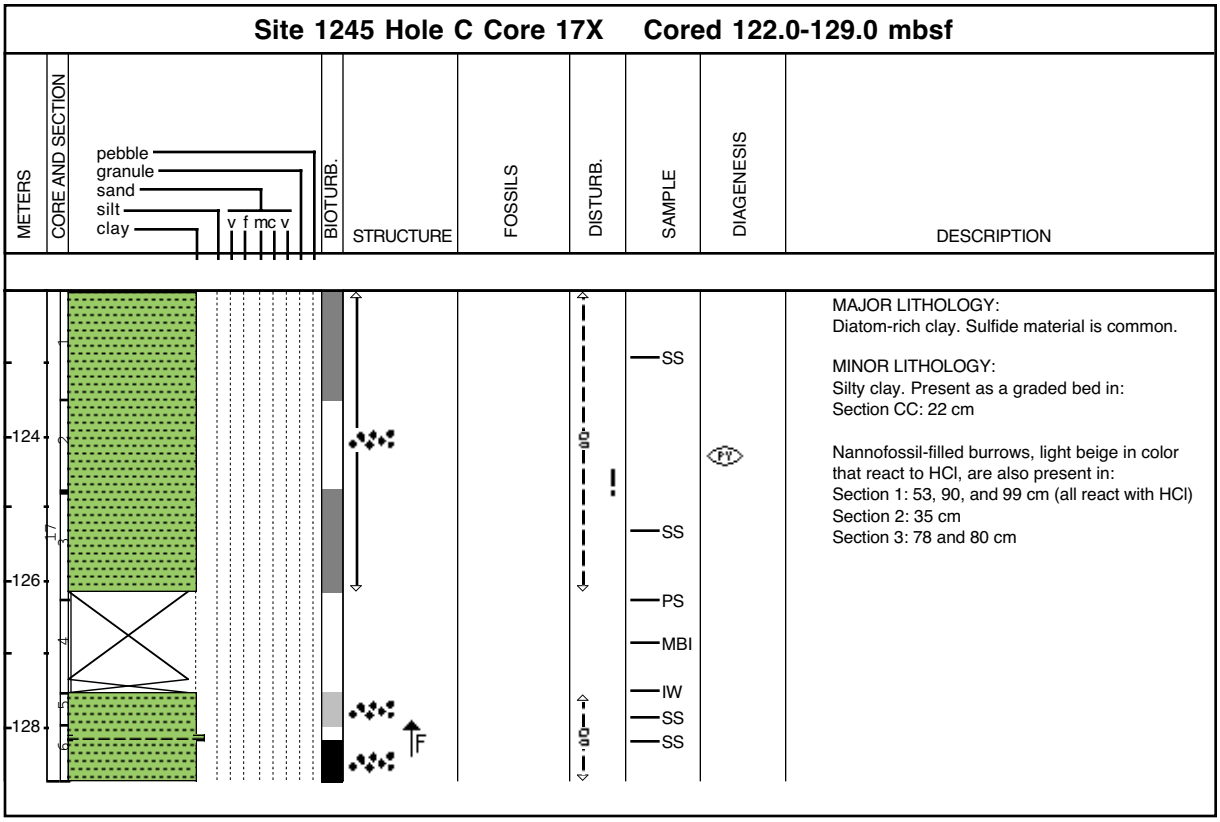
Core Photo


Site 1245 Hole C Core 15X Cored 116.0-120.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
118
120
122
SS
HYD
PS
HYD
MBI
IW
SS
PY
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), finely interbedded with silty clay and mottled. Sulfides are abundant. Iron sulfide nodules are found in Section 3 (14 cm) and Section 5 (138 cm).
MINOR LITHOLOGY:
Foraminifer-bearing sandy silt to silt with mousse-like texture at Section 1, where hydrate samples were taken.

Core Photo

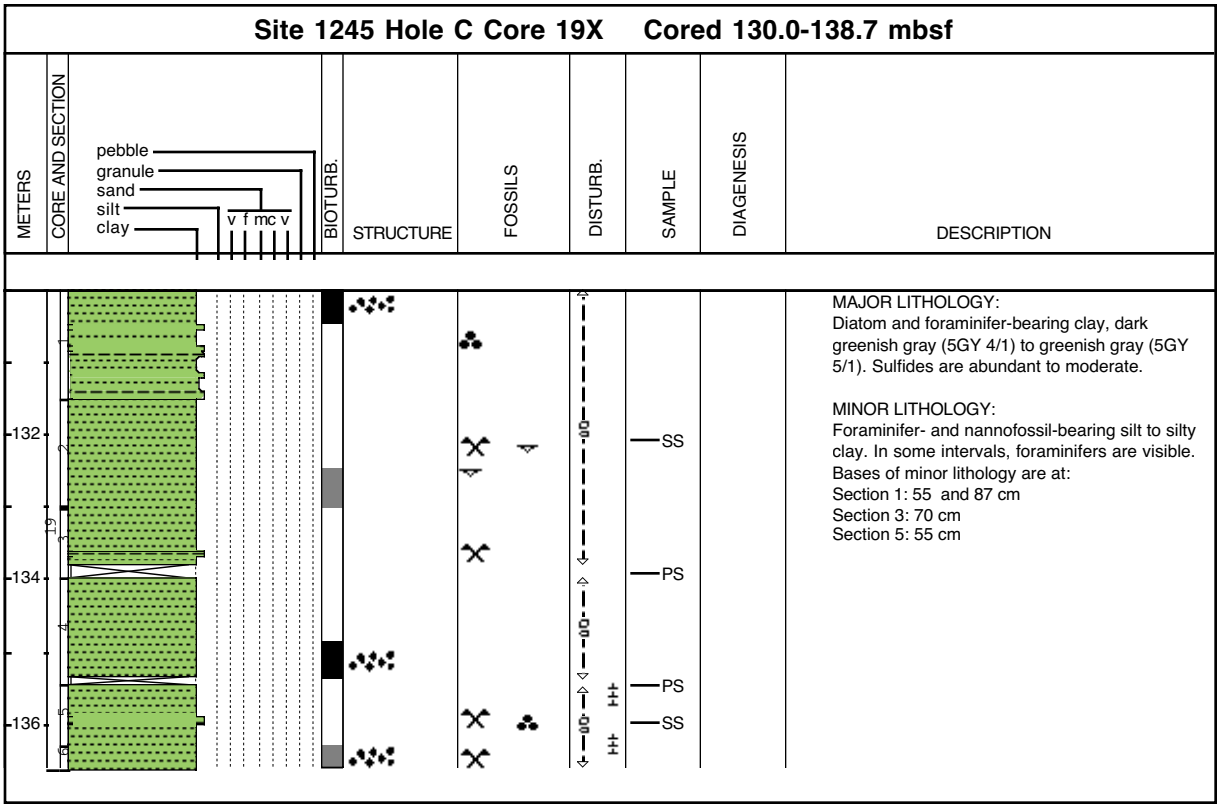

Site 1245 Hole C Core 16P Cored 120.0-121.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
IW
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and homogeneous.

Core Photo

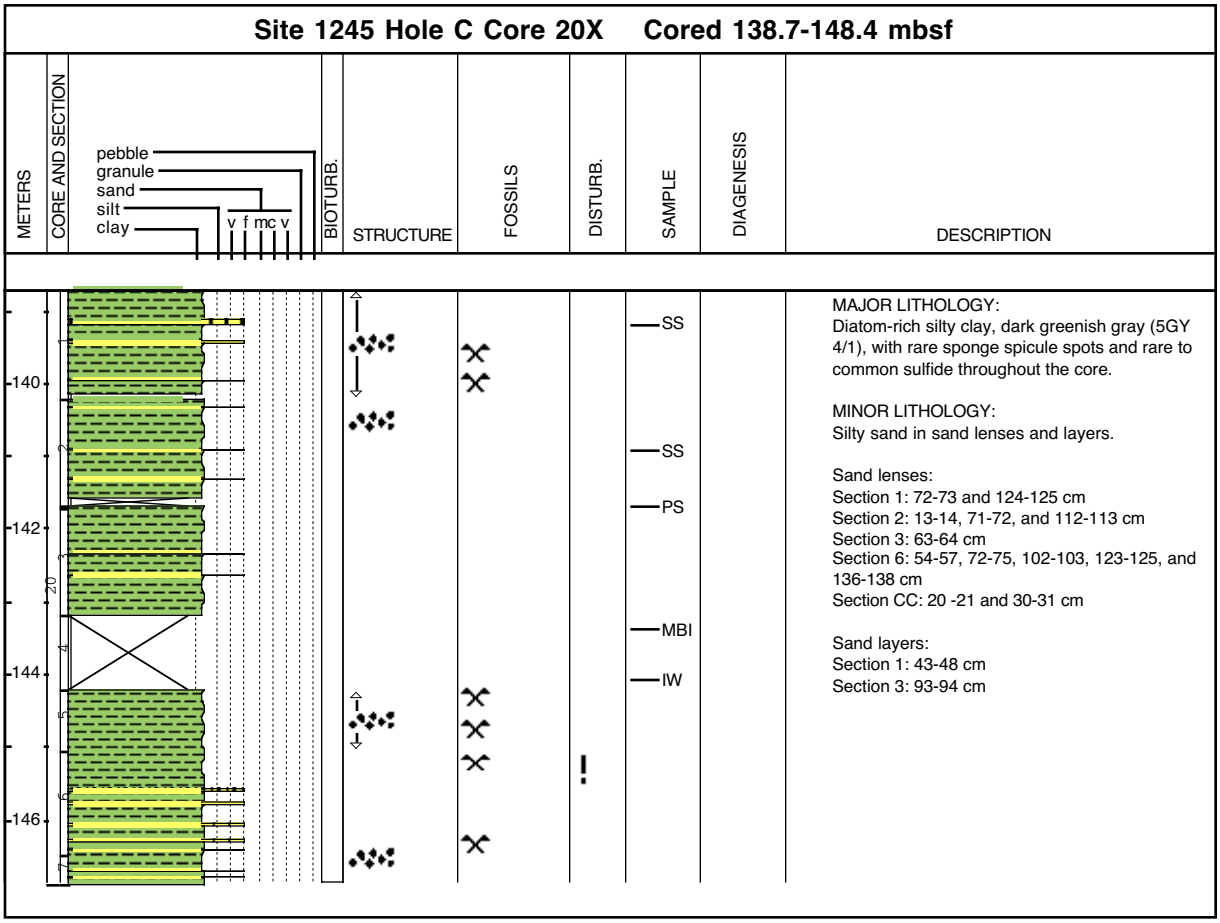


1245C-18Y Fugro Pressure Core not described.

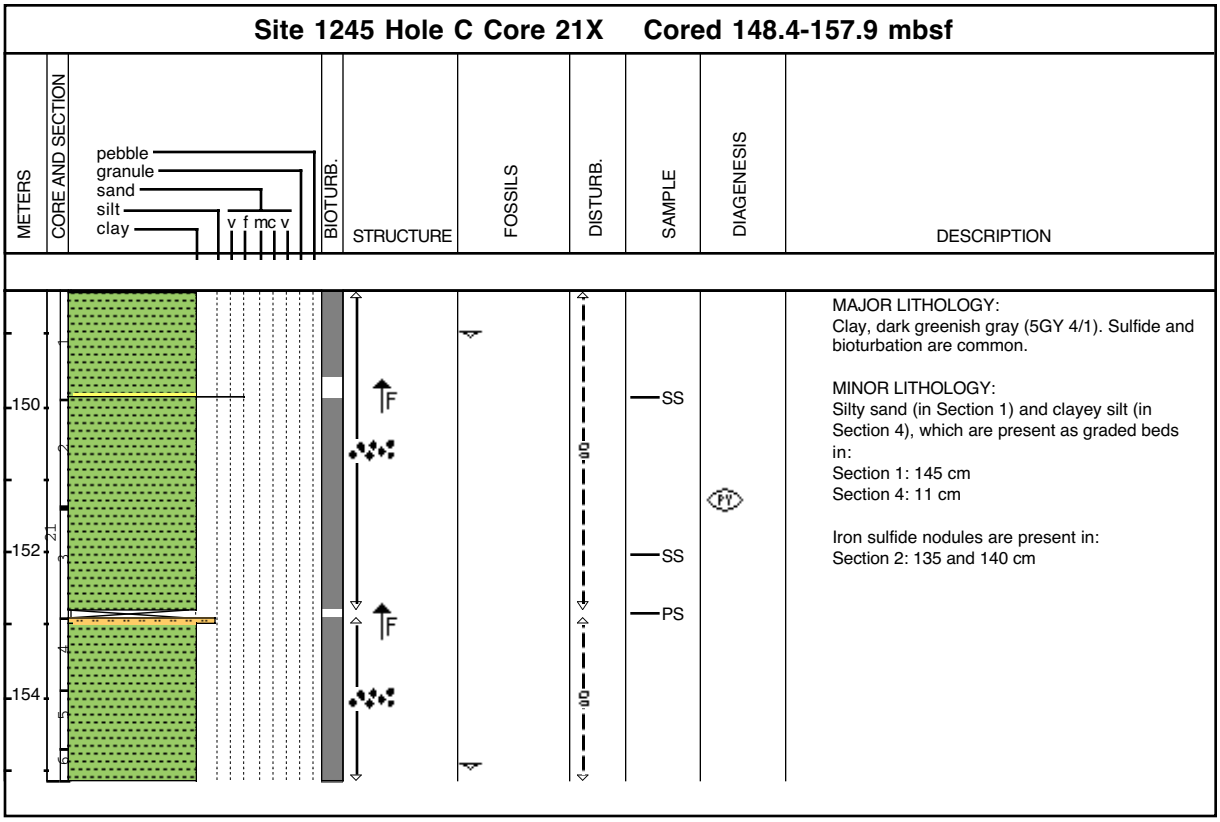
Core Photo


Site 1245 Hole C Core 19X Cored 130.0-138.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
132
134
136
19
1
2
3
4
5
SS
PS
PS
SS
MAJOR LITHOLOGY:
Diatom and foraminifer-bearing clay, dark greenish gray (5GY 4/1) to greenish gray (5GY 5/1). Sulfides are abundant to moderate.
MINOR LITHOLOGY:
Foraminifer- and nannofossil-bearing silt to silty clay. In some intervals, foraminifers are visible.
Bases of minor lithology are at:
Section 1: 55 and 87 cm
Section 3: 70 cm
Section 5: 55 cm

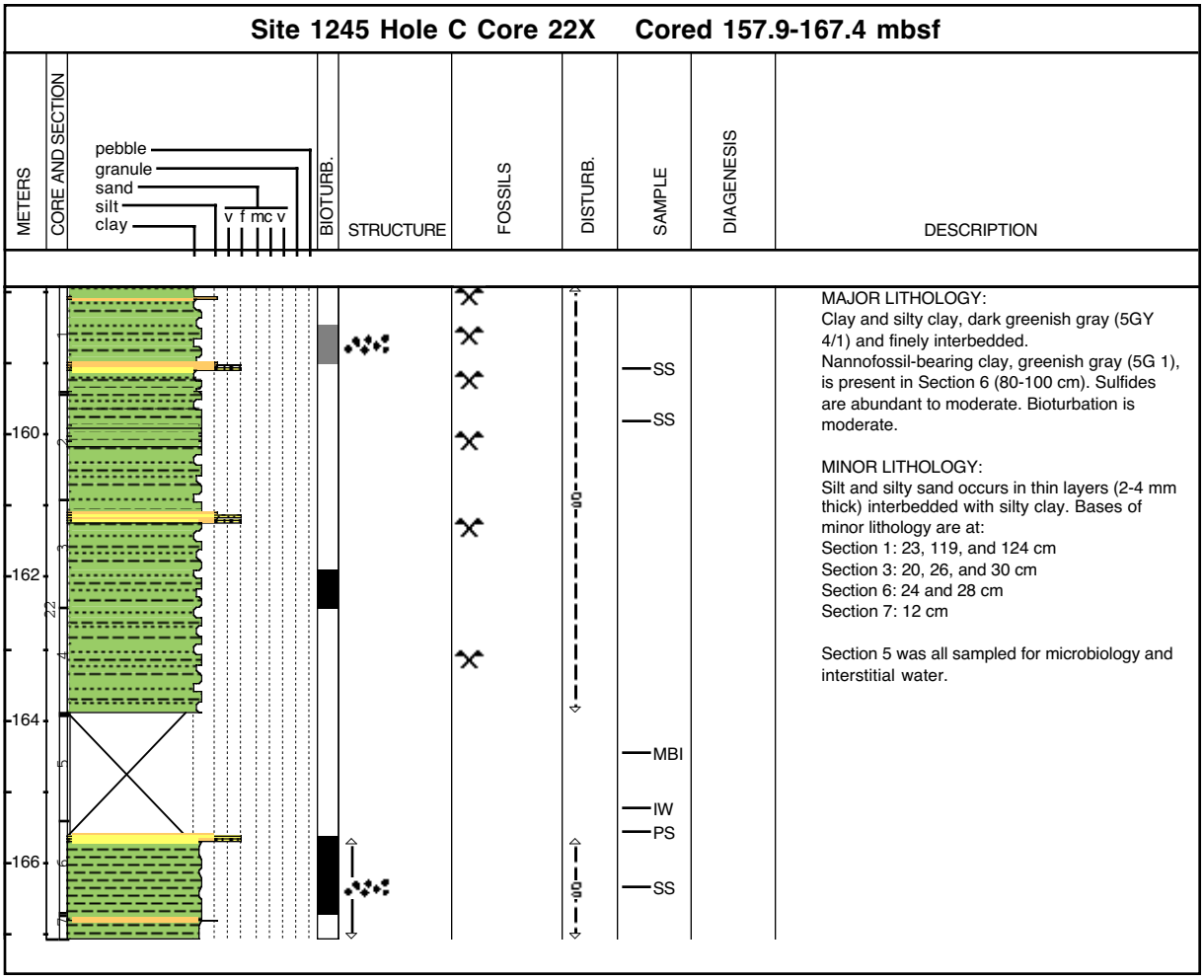
Core Photo


Site 1245 Hole C Core 20X Cored 138.7-148.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
140
142
144
146
20
SS
SS
PS
MBI
IW
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1), with rare sponge spicule spots and rare to common sulfide throughout the core.
MINOR LITHOLOGY:
Silty sand in sand lenses and layers.
Sand lenses:
Section 1: 72-73 and 124-125 cm
Section 2: 13-14, 71-72, and 112-113 cm
Section 3: 63-64 cm
Section 6: 54-57, 72-75, 102-103, 123-125, and 136-138 cm
Section CC: 20 -21 and 30-31 cm
Sand layers:
Section 1: 43-48 cm
Section 3: 93-94 cm

Core Photo

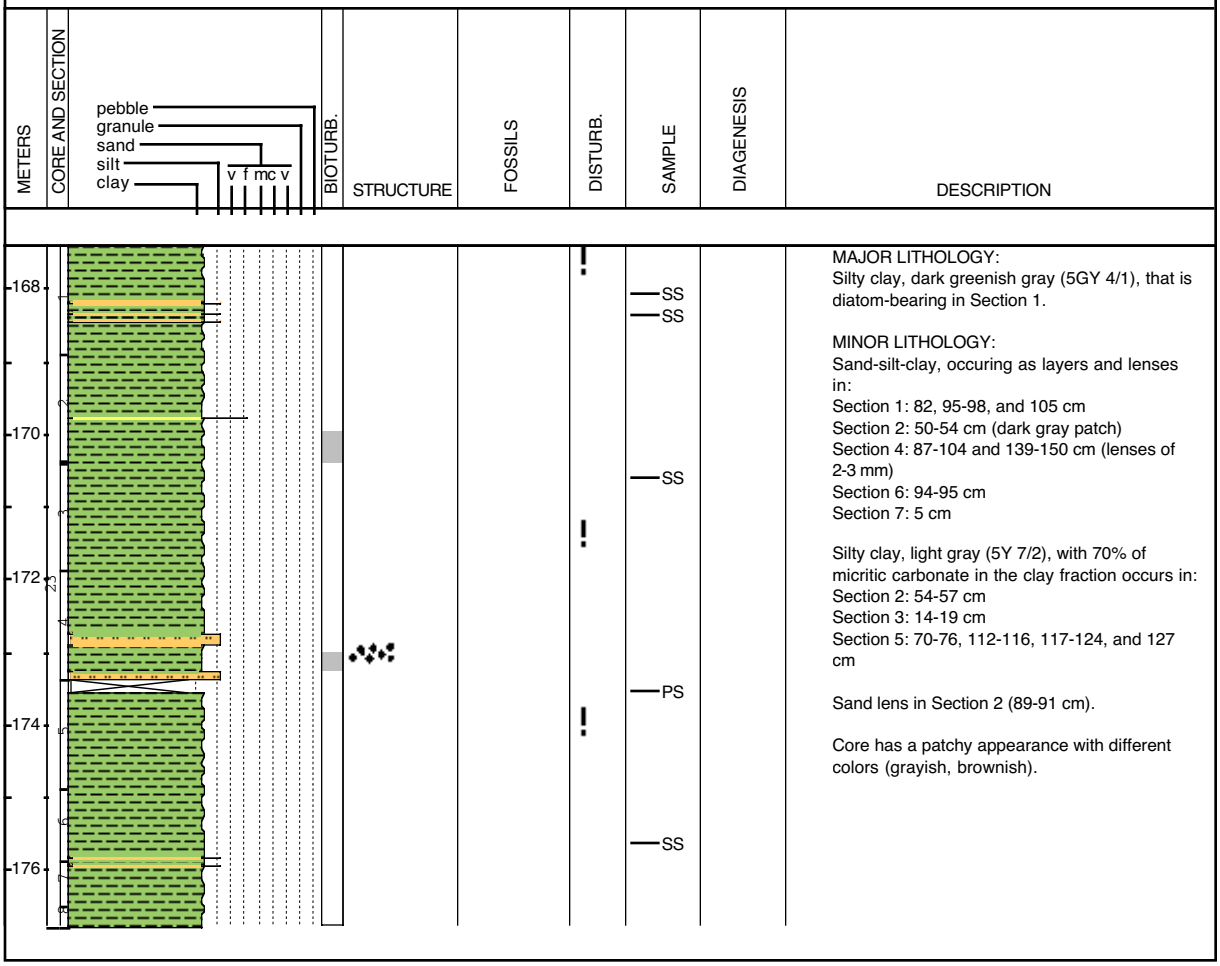

Site 1245 Hole C Core 21X Cored 148.4-157.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
150
152
154
21
1
2
3
4
5
6
F
F
SS
SS
PS
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfide and bioturbation are common.
MINOR LITHOLOGY:
Silty sand (in Section 1) and clayey silt (in Section 4), which are present as graded beds in:
Section 1: 145 cm
Section 4: 11 cm
Iron sulfide nodules are present in:
Section 2: 135 and 140 cm

Core Photo


Site 1245 Hole C Core 22X Cored 157.9-167.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
160
162
164
166
22
1
2
3
4
5
6
7
SS
SS
MBI
IW
PS
SS
MAJOR LITHOLOGY:
Clay and silty clay, dark greenish gray (5GY 4/1) and finely interbedded.
Nannofossil-bearing clay, greenish gray (5G 1), is present in Section 6 (80-100 cm). Sulfides are abundant to moderate. Bioturbation is moderate.
MINOR LITHOLOGY:
Silt and silty sand occurs in thin layers (2-4 mm thick) interbedded with silty clay. Bases of minor lithology are at:
Section 1: 23, 119, and 124 cm
Section 3: 20, 26, and 30 cm
Section 6: 24 and 28 cm
Section 7: 12 cm
Section 5 was all sampled for microbiology and interstitial water.

Core Photo

Site 1245 Hole C Core 23X Cored 167.4-177.1 mbsf



MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), that is diatom-bearing in Section 1.

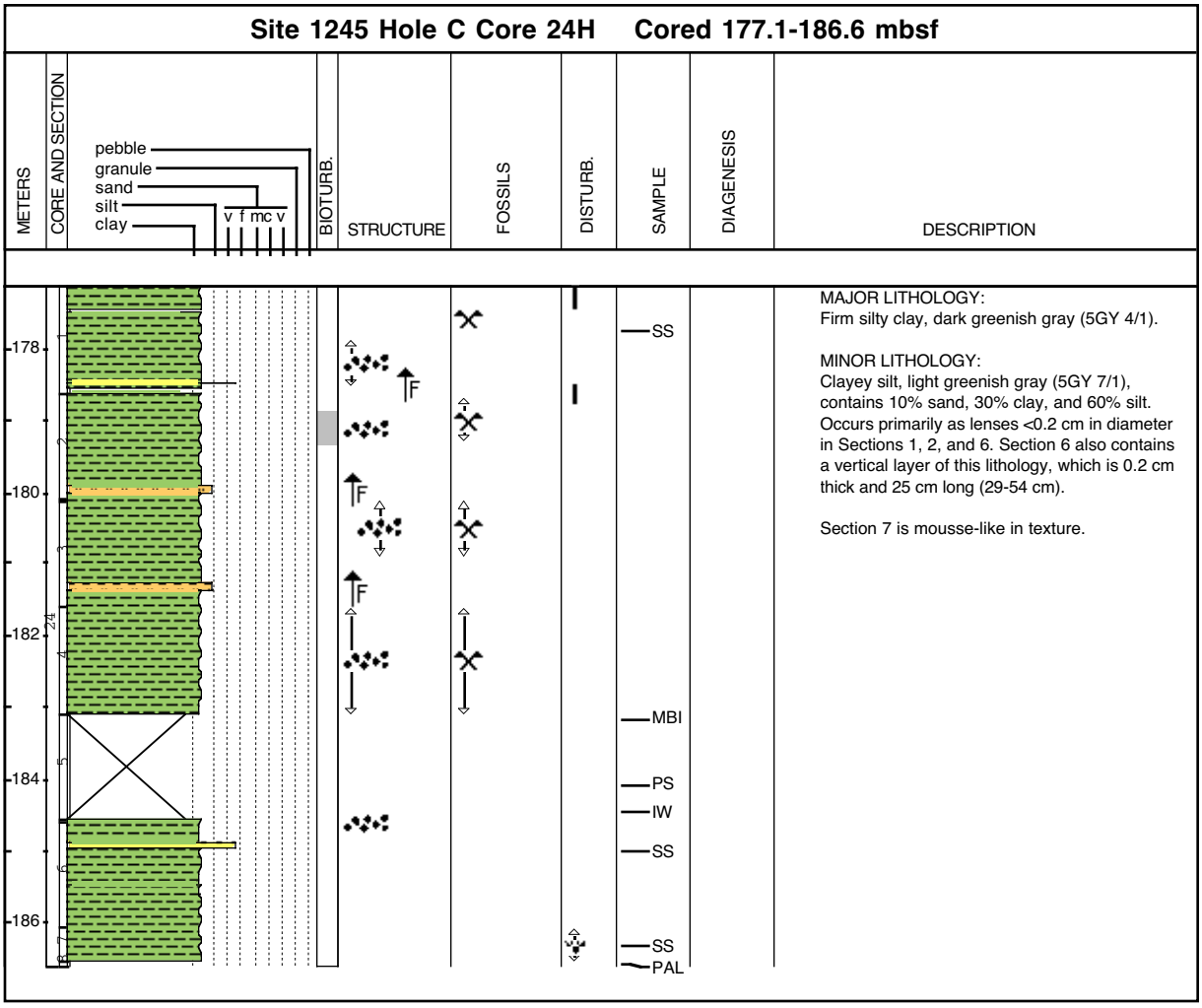
MINOR LITHOLOGY:
Sand-silt-clay, occuring as layers and lenses in:
Section 1: 82, 95-98, and 105 cm
Section 2: 50-54 cm (dark gray patch)
Section 4: 87-104 and 139-150 cm (lenses of 2-3 mm)
Section 6: 94-95 cm
Section 7: 5 cm

Silty clay, light gray (5Y 7/2), with 70% of micritic carbonate in the clay fraction occurs in:
Section 2: 54-57 cm
Section 3: 14-19 cm
Section 5: 70-76, 112-116, 117-124, and 127 cm

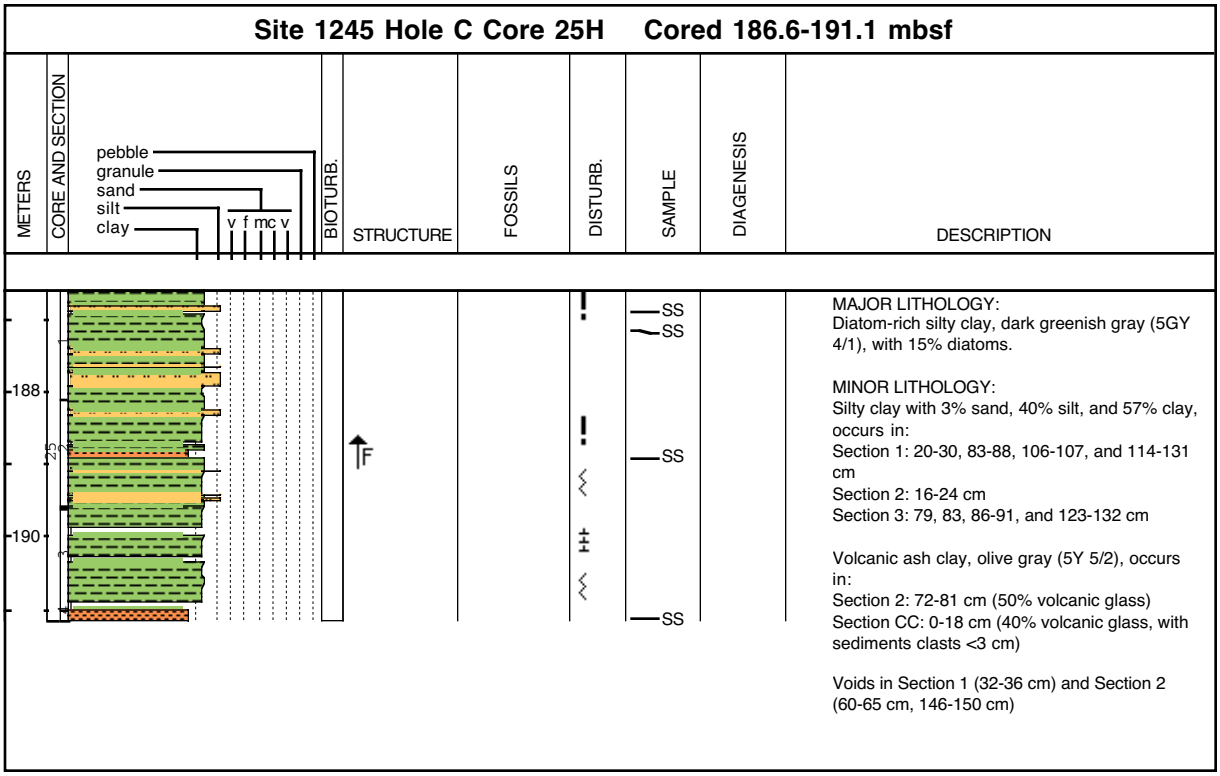
Sand lens in Section 2 (89-91 cm).

Core has a patchy appearance with different colors (grayish, brownish).

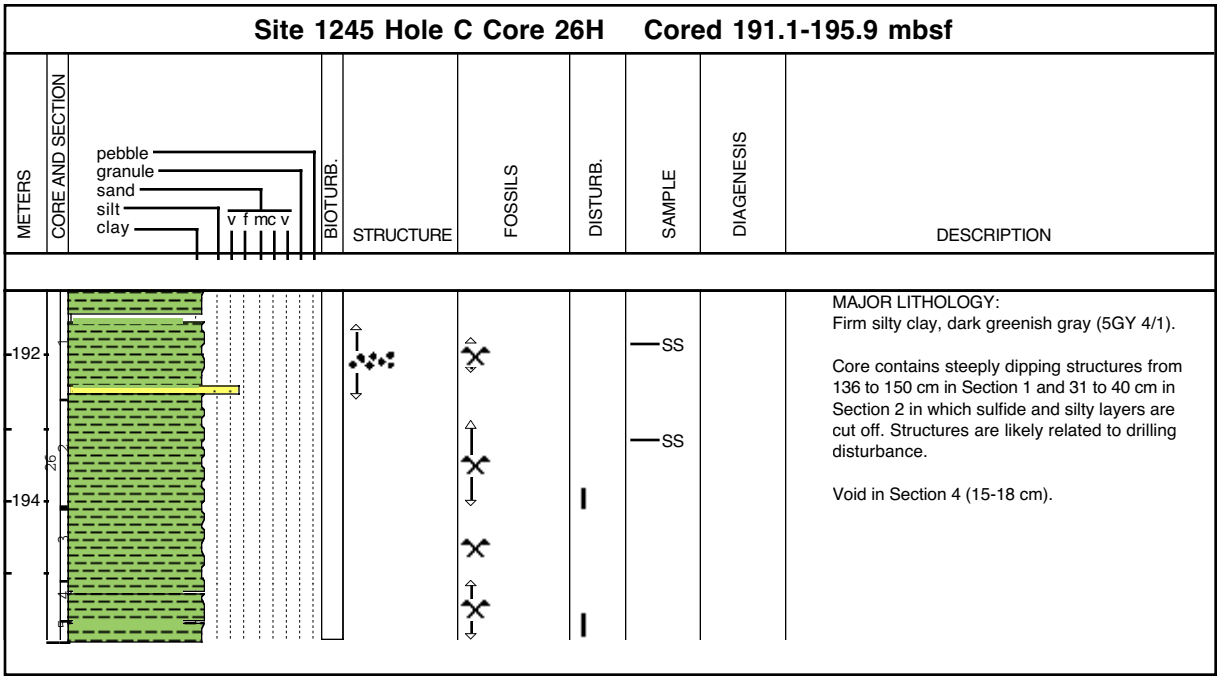
Core Photo


Site 1245 Hole C Core 24H Cored 177.1-186.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
178
180
182
184
186
SS
MBI
PS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Firm silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Clayey silt, light greenish gray (5GY 7/1), contains 10% sand, 30% clay, and 60% silt. Occurs primarily as lenses <0.2 cm in diameter in Sections 1, 2, and 6. Section 6 also contains a vertical layer of this lithology, which is 0.2 cm thick and 25 cm long (29-54 cm).
Section 7 is mousse-like in texture.

Core Photo

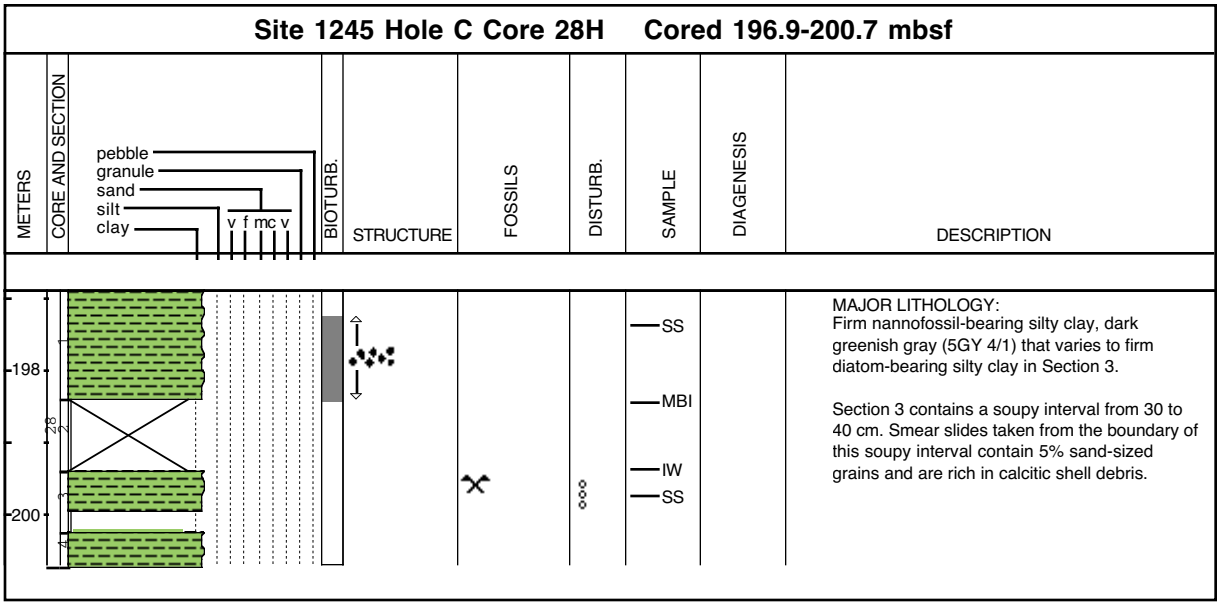

Site 1245 Hole C Core 25H Cored 186.6-191.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
188
190
25
F
SS
SS
SS
SS
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1), with 15% diatoms.
MINOR LITHOLOGY:
Silty clay with 3% sand, 40% silt, and 57% clay, occurs in:
Section 1: 20-30, 83-88, 106-107, and 114-131 cm
Section 2: 16-24 cm
Section 3: 79, 83, 86-91, and 123-132 cm
Volcanic ash clay, olive gray (5Y 5/2), occurs in:
Section 2: 72-81 cm (50% volcanic glass)
Section CC: 0-18 cm (40% volcanic glass, with sediments clasts <3 cm)
Voids in Section 1 (32-36 cm) and Section 2 (60-65 cm, 146-150 cm)

Core Photo



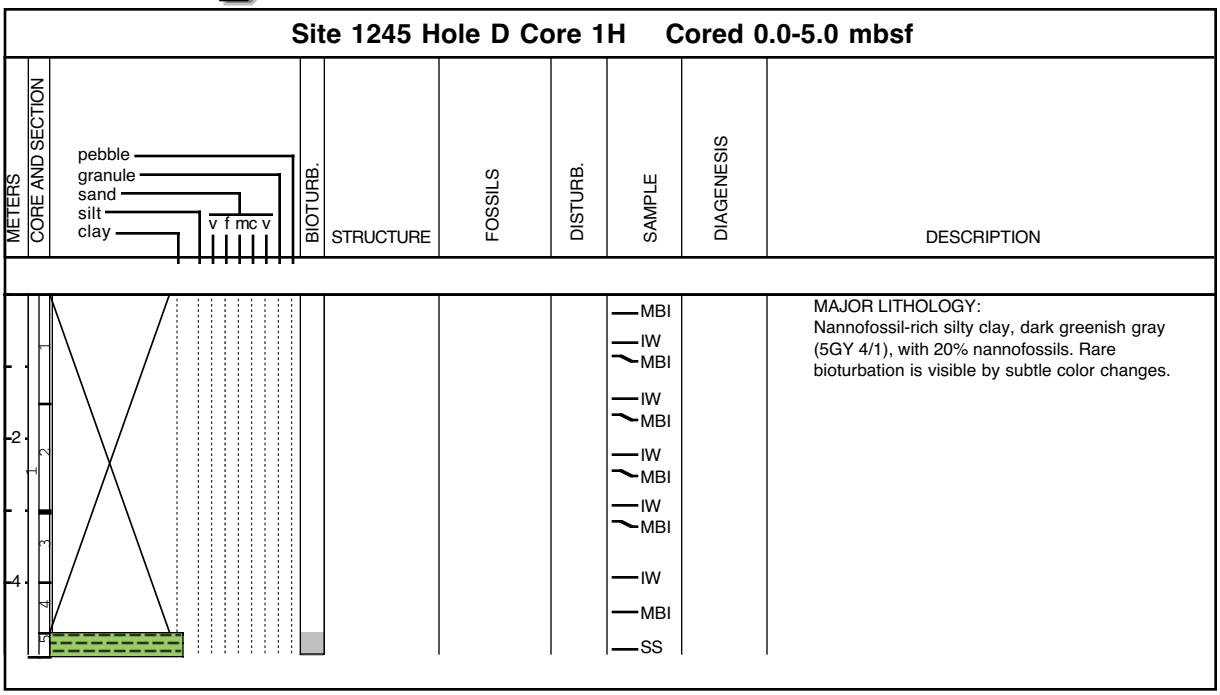
1245C-27Y Fugro Pressure Core not described.

Core Photo

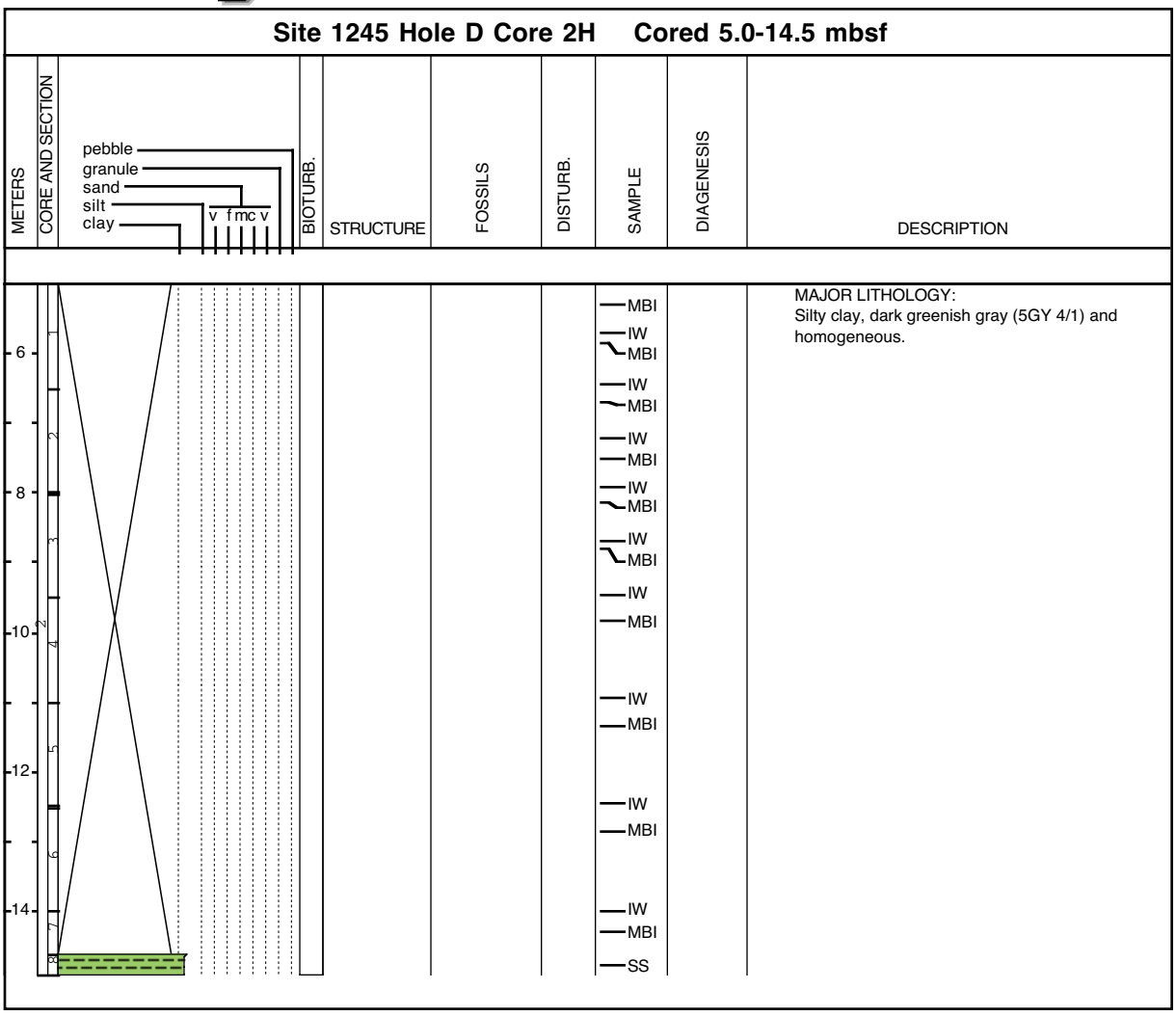


1245C-29E Fugro Pressure Core not described.

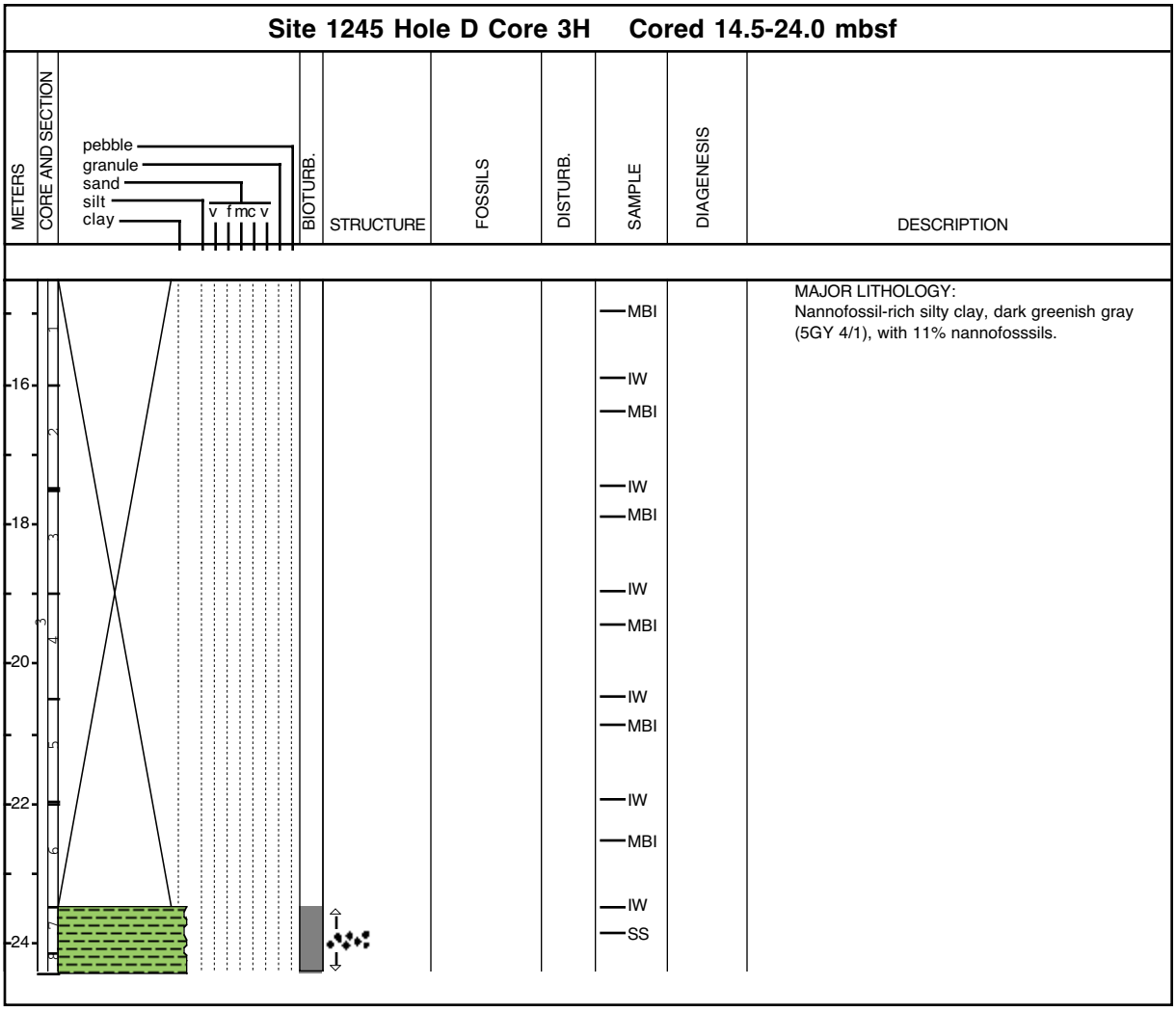
Core Photo


Site 1245 Hole D Core 1H Cored 0.0-5.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
SS
MAJOR LITHOLOGY:
Nannofossil-rich silty clay, dark greenish gray (5GY 4/1), with 20% nannofossils. Rare bioturbation is visible by subtle color changes.

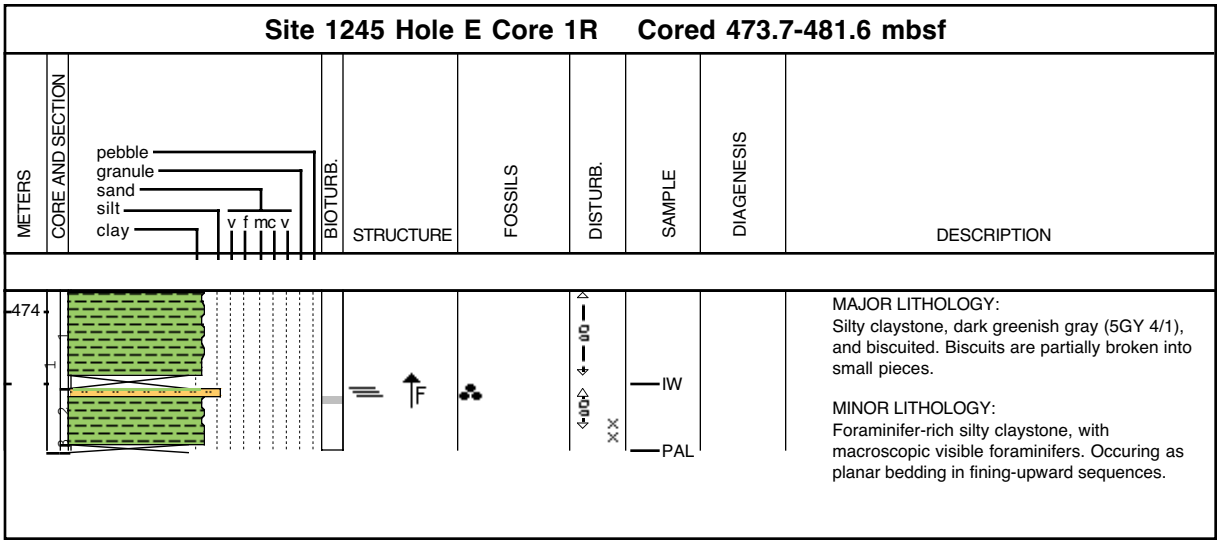
Core Photo


Site 1245 Hole D Core 2H Cored 5.0-14.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
6
8
10
12
14
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) and homogeneous.

Core Photo

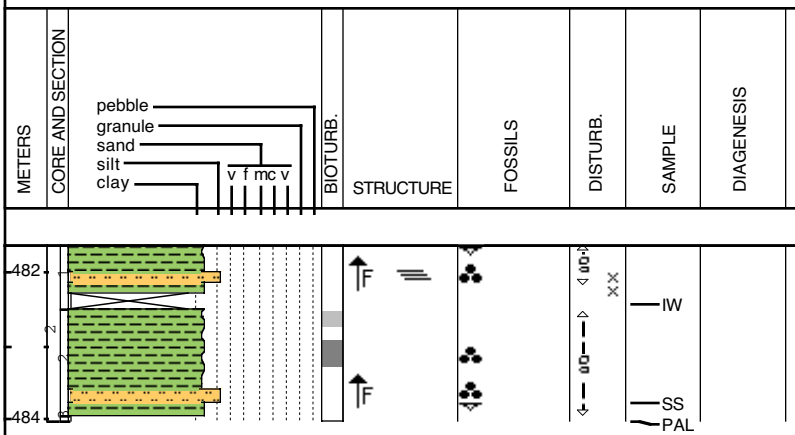

Site 1245 Hole D Core 3H Cored 14.5-24.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
16
18
20
22
24
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
MBI
IW
SS
MAJOR LITHOLOGY:
Nannofossil-rich silty clay, dark greenish gray (5GY 4/1), with 11% nannofosssils.

Core Photo


Site 1245 Hole E Core 1R Cored 473.7-481.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
474
1
2
CC
F
IW
PAL
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1), and biscuited. Biscuits are partially broken into small pieces.
MINOR LITHOLOGY:
Foraminifer-rich silty claystone, with macroscopic visible foraminifers. Occuring as planar bedding in fining-upward sequences.

Core Photo

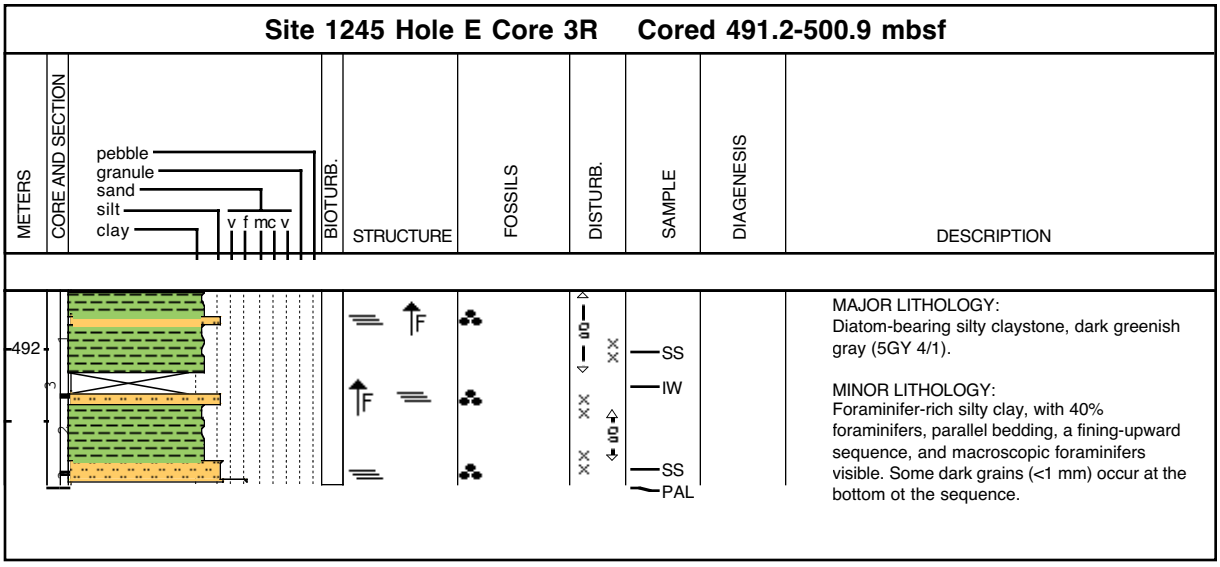
Site 1245 Hole E Core 2R Cored 481.6-491.2 mbsf



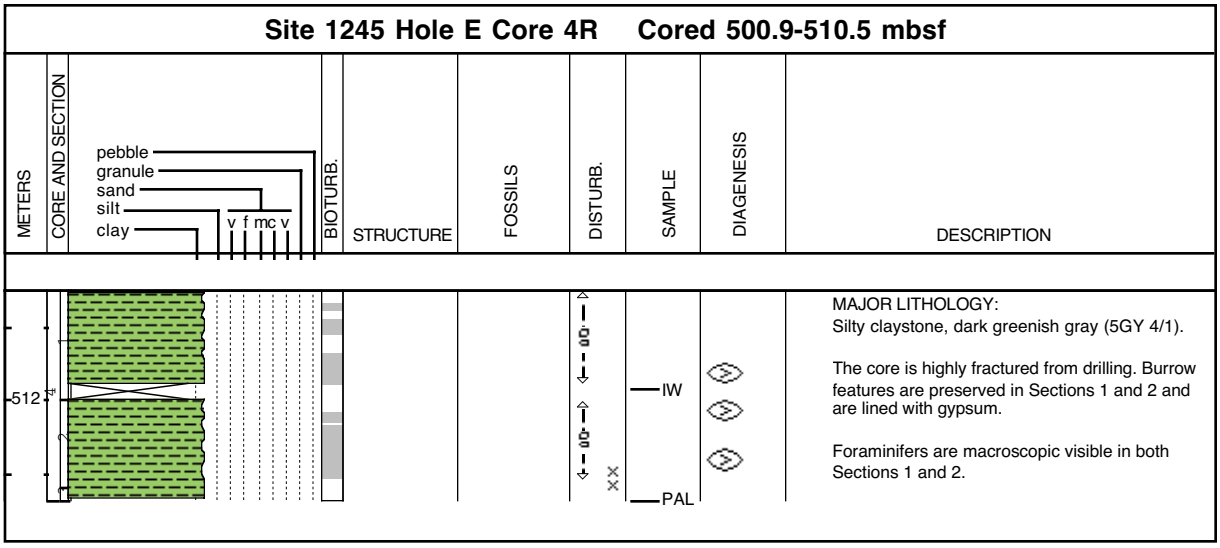
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1).

MINOR LITHOLOGY:
Foraminifer-rich silty claystone, with macroscopic foraminifers, planar bedding, and fining-upward sequences. Section 1 (130-142 cm) shows a conglomerate at the base of the foraminifer-rich section with well-rounded clasts of different color (brownish to grayish) and size (<1.5 cm). Dark clasts also appear in Section 2 (53 cm) at the base of the foraminifer-rich section.

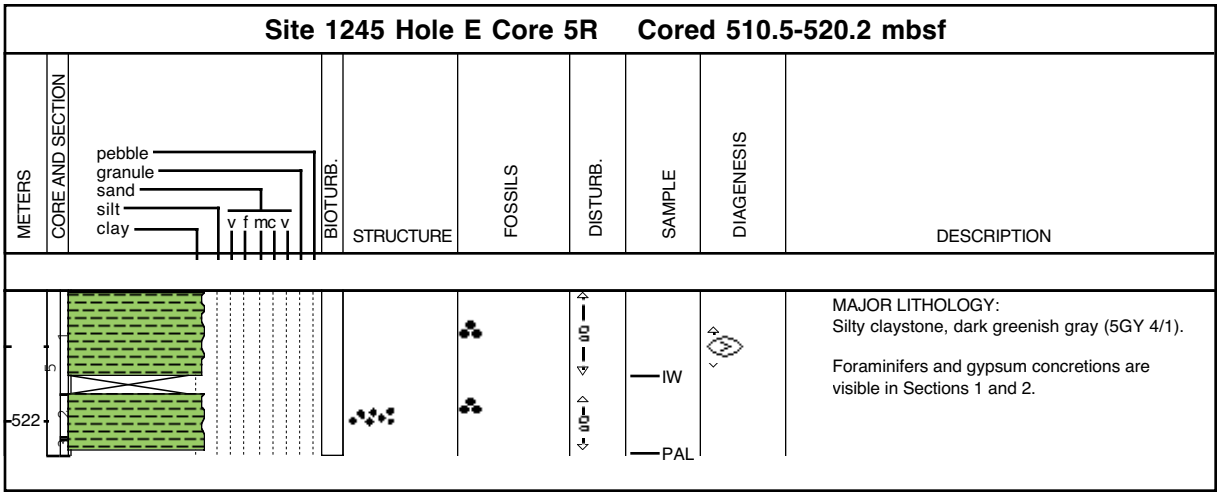
Core Photo


Site 1245 Hole E Core 3R Cored 491.2-500.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
492
1
2
3
F
F
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing silty claystone, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Foraminifer-rich silty clay, with 40% foraminifers, parallel bedding, a fining-upward sequence, and macroscopic foraminifers visible. Some dark grains (<1 mm) occur at the bottom ot the sequence.

Core Photo

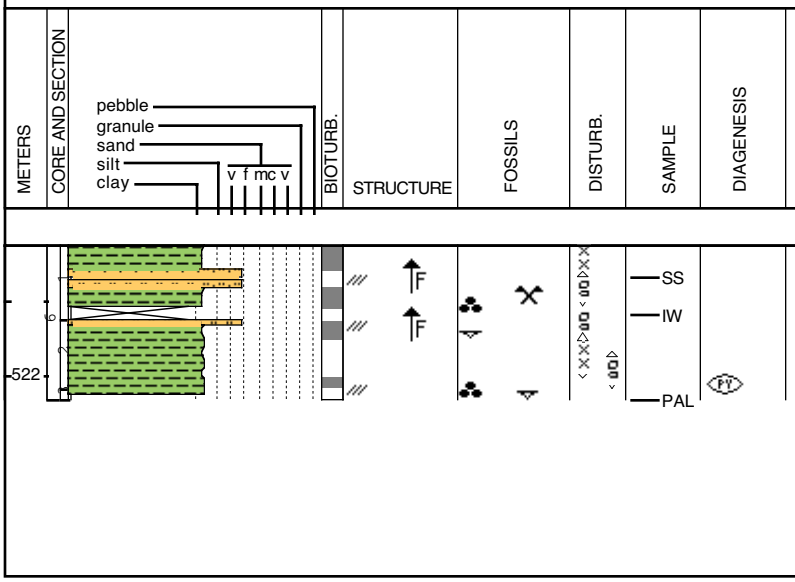

Site 1245 Hole E Core 4R Cored 500.9-510.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
512
IW
PAL
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1).
The core is highly fractured from drilling. Burrow features are preserved in Sections 1 and 2 and are lined with gypsum.
Foraminifers are macroscopic visible in both Sections 1 and 2.

Core Photo


Site 1245 Hole E Core 5R Cored 510.5-520.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
522
IW
PAL
MAJOR LITHOLOGY:
Silty claystone, dark greenish gray (5GY 4/1).
Foraminifers and gypsum concretions are visible in Sections 1 and 2.

Core Photo

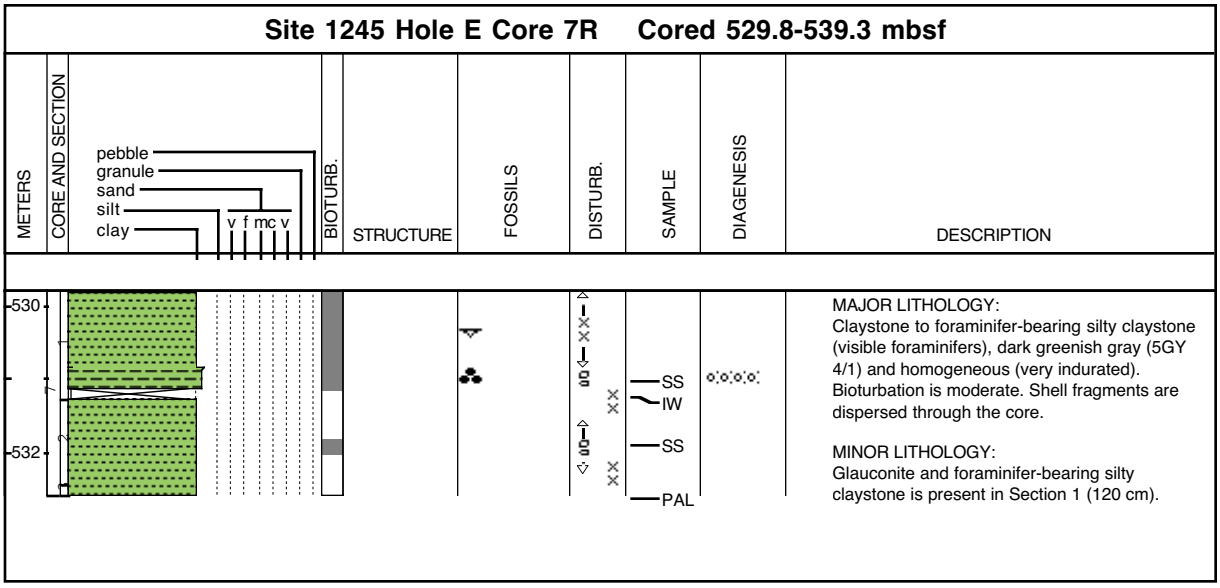
Site 1245 Hole E Core 6R Cored 520.2-529.8 mbsf



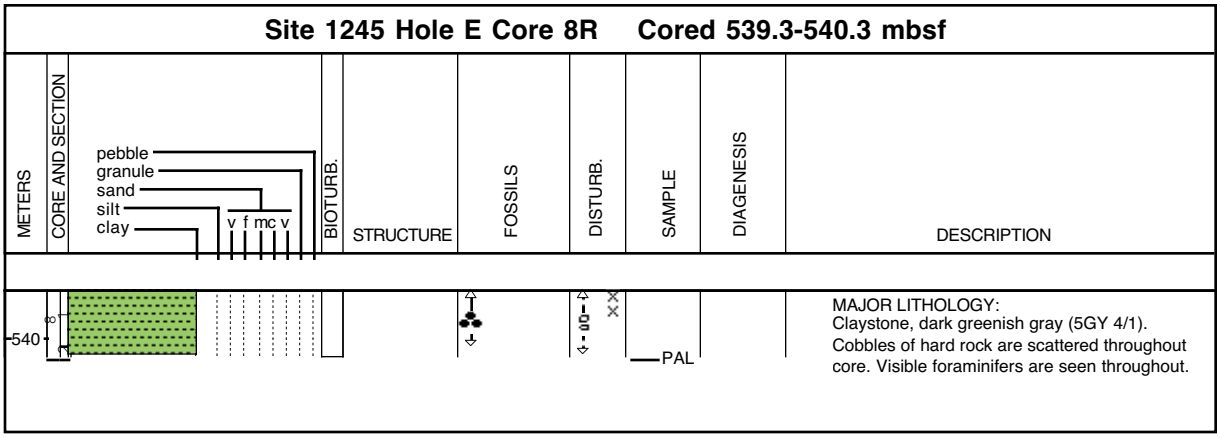
MAJOR LITHOLOGY:
Foraminifer-bearing to -rich silty claystone, dark greenish gray (5GY 4/1) and firm. Sponge spicules are common. Bioturbation is moderate.

MINOR LITHOLOGY:
Foraminifer-rich silty sandstone. Laminated (0.3- to 0.5-mm-thick layers). High-angle bedding (30 degrees), fining-upward sequences, and erosional bases are evident. Minor lithology intervals are located at Section 1 (34-46 cm) and Section 2 (0-5 cm). A fragment of lithified wood was found in Section 1 (64 cm).

Core Photo


Site 1245 Hole E Core 7R Cored 529.8-539.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
530
532
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Claystone to foraminifer-bearing silty claystone (visible foraminifers), dark greenish gray (5GY 4/1) and homogeneous (very indurated). Bioturbation is moderate. Shell fragments are dispersed through the core.
MINOR LITHOLOGY:
Glauconite and foraminifer-bearing silty claystone is present in Section 1 (120 cm).

Core Photo


Site 1245 Hole E Core 8R Cored 539.3-540.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
540
PAL
MAJOR LITHOLOGY:
Claystone, dark greenish gray (5GY 4/1).
Cobbles of hard rock are scattered throughout core. Visible foraminifers are seen throughout.

Sample						Texture			Mineral										Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B																															
1	H	1	7	0.07	M	20	60	20			5	10	10			10	15														
1	H	3	60	3.6	M	25	60	15	3		10	5	4		1	3	10			5		40	10								
1	H	5	58	6.58	M	0	10	90			80					5	2														Carbonate nodule?
1	H	7	60	9.1	D	0	25	75	1		5	5				3	10										1				
2	H	1	31	9.81	D	0	20	80			2	5					20														
2	H	4	94	14.94	D	0	20	80					1				20			4											
2	H	5	19	15.69	M	2	8	90			70	1					1			2											Carbonate-rich Clay (Micritic authigenic)
3	H	2	80	21.3	D	0	15	85			2	2				8	7			3		3					1				
3	H	4	122	24.72	D	0	25	75				5				15	10	1		3							3				
3	H	6	45	26.95	D	0	20	80			5	5				2	5			5		3		3			7				
4	H	1	60	29.1	D	0	15	85								10	30			3											
4	H	2	119	31.19	M	80	20	0			5	5				3	10														Carbonate-bearing sand
4	H	4	50	33.5	D	0	5	95								3	20			1		1									
4	H	7	26	37.76	D		2	98								2	1			2											
5	H	1	65	38.65	D		20	80	2		2					2	5			3											
5	H	3	54	41.54	M	10	70	20	3		4	1	2		1	3	8						7								
5	H	4	120	43.7	M	0	35	65	3		10	2				4	10			2		4	2								Carbonate-rich silty clay
5	H	6	17	45.67	D	0	20	80	2				2			5	8			3			4								
6	H	1	50	48	D	0	10	90								5	3			5											
6	H	3	71	51.21	M	90	10	0				1				3	1	30		1							3				Volcanic-glass rich sand
6	H	3	84	51.34	M	95	5	0	1			10					5	15													Volcanic-glass rich sand
6	H	5	47	53.97	M	35	65	0					1			3	5			3		1					1				
6	H	6	36	54.89	D	0	15	85				3				3	10			6							1				
6	H	CC	37	55.5	M	0	10	90								10	2			5							1				
7	H	2	53	58.08	D	8	25	67	3			12			3	2	8			5		1		1			1				
7	H	4	50	60.94	D	0	25	75				12				2	2			8		1		1							
7	H	5	40	61.98	D	8	30	62	6			15			5	4	4			4				1							
7	H	6	6	63.14	D	12	25	63	8			10	1		5	2	10			5											
7	H	7	105	65.63	M	70	20	10	10			25	8			10	40														
8	H	1	30	66.8	D	3	27	70	5			10			5		5			5											
8	H	1	112	67.62	M	70	20	10	12			30	15		5	5	25														
8	H	2	67	68.67	D	3	27	70	3			12					4			8				2			3				
8	H	3	135	70.77	M	60	25	15	5			30	10				25			4		3					2				
8	H	6	67	74.53	D	1	19	80	1			15			1	1	3			3				2							
8	H	7	26	75.62	M	20	20	60	8			20	5			3	15							2							
9	H	2	92	78.24	M	20	30	50				3					10														
9	H	5	33	82.05	D	0	20	80									5			3											
9	H	6	19	83.41	M	0	25	75								3				2			3	1			1				
10	H	1	33	85.83	D	0	30	70			2	3	1			3	5			2							1				
10	H	4	44	90.07	M	2	35	63			5					2	8						2				1				
10	H	6	51	93.14	M	20	70	10	2		5	10	2		1	10	50			1											
10	H	7	28	94.23	D	0	25	75			3	2					3			5				3			3				
11	H	1	65	95.65	M	3	40	57				3	2				5						2								
11	H	3	20	97.67	M	30	20	50				3					5			2											
11	H	5	39	100.86	D	0	25	75								2	10			3											
12	H	1	40	104.9	D	0	20	80	1							2	3			1		1		11							
12	H	1	92	105.42	M	30	50	20	3		5	5	3		2	10	30							11			1				

Sample						Texture			Mineral										Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																															
12	H	5	84	111.31	M	0	70	30			10	3				10	60														
12	H	7	30	113.27	D	0	20	80								5	3			11			11				4				
13	H	3	49	117.25	D	0	20	80				2				1	3			6				10			3				
13	H	5	84	120.6	M	0	40	60								3	2	30		2							1				
13	H	6	54	121.49	D	0	30	70			3					1	2			7		1	3				5				
14	H	1	60	123.3	M	0	35	65			3					7	5			10		1	1	3							
14	H	2	37	124.47	M	5	50	45	2		5		2		1	10	20			5							1				
14	H	3	80	126.4	D	0	20	80			3	2				2	3			13				7			5				
15	X	1	63	128.43	D	0	20	80			1						3	1		5		1		11			2				
15	X	3	110	130.46	M	0	20	80									10			7				20			2				
16	X	1	59	138.09	D	0	20	80				2				3	5			20			3								
16	X	3	105	141.55	M	30	40	30				5	1			15	30			1											
16	X	4	23	142.23	D	0	15	85			3	2					2			5											
16	X	4	79	142.79	M	20	30	50				5				5	3			4											
18	X	3	66	152.64	M	0	15	85			70	3				2	3			2							5				
18	X	4	40	153.85	D	0	25	75			70	3				15	6	2		12							5				
19	X	1	35	157.35	M	0	15	85												5		10									
19	X	1	124	158.24	M	30	70	0								3	1					20									
19	X	2	55	159.05	D	0	15	85								1	5			6		2									
19	X	2	117	159.67	M	60	30	10				5			1		2														
19	X	4	36	161.86	D	0	15	85				3				1	2			5							1				
20	X	2	42	168.42	D	0	20	80					1		2	2	6			4			2								
20	X	3	130	170.8	M	5	70	25	3			2					10					3	2								
20	X	4	120	172.2	M	0	30	70	2			1				3	6			3		6	4								
21	X	1	25	176.35	M	75	15	10	10			20					50	2		1							8				
21	X	1	80	176.9	M	85	8	7	10	3		30	15			5	40	2													
21	X	1	110	177.2	D	5	20	75	2			10				3	5			5											
21	X	2	30	177.9	M	45	40	15	1			4				1		90													
21	X	2	33	177.93	M	30	55	15										90									1				
21	X	2	39	177.99	M	40	45	15										95													
21	X	2	46	178.06	M	20	65	15	1			4				1	8	85													
21	X	2	52	178.12	M	10	75	15										96													
21	X	2	58	178.18	M	20	70	10										95													
21	X	2	64	178.24	M	75	15	10	8			25	15			5	30	10													
21	X	2	88	178.48	M	10	70	20								1		96													
21	X	3	36	179.38	M	70	20	10	10			30	3			2	40	10													
21	X	3	59	179.61	M	25	60	15				3					4	85													
21	X	3	88	179.9	M	70	10	20	10			30	10				40	5													
21	X	3	98	180	M	35	10	55	5			5				2	5	35													
21	X	3	101	180.03	M	70	10	20	15			20	10			3	20	25													
21	X	3	111	180.13	M	85	5	10	15			20	10				40	10													
21	X	3	119	180.21	M	20	20	60	2			10	3				15	5		5											
21	X	4	14	180.64	M	25	50	25			5	2					8	50				1		3							
21	X	4	24	180.74	M	70	20	10	1			5					4	85													
21	X	4	30	180.8	M	20	65	15		5		3					4	85				1		2							
21	X	4	36	180.86	M	75	15	10				3	1				2	93													
21	X	4	38	180.88	M	20	65	15	1			2					3	90													

Sample						Texture			Mineral										Biogenic													
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																
21	X	4	39	180.89	M	20	65	15				2					3	92														
21	X	4	48	180.98	M	75	15	10					2			1	4	92														
21	X	4	54	181.04	M	30	60	10				2				1	3	90														
21	X	4	56	181.06	M	20	45	35				2					2	90														
21	X	5	8	181.6	M	65	25	10	10		5	30	10			8	30	2														
21	X	5	20	181.72	M	3	22	75			15	3				3	4			5							1					
21	X	5	45	181.97	M	40	30	30				12				10	8										45					
22	X	1	32	185.72	D	0	20	80			2						3			11												
22	X	2	43	187.33	M	50	30	20			1	3					5															
22	X	6	52	193.42	D	0	15	85									3			3												
23	X	1	40	195.1	D	0	35	65			2					7	5			3							2					
23	X	1	128	195.98	D	0	25	75								3	3			1							1					
23	X	6	8	202.28	D	3	20	77								2	3			2							1					
24	X	3	93	208.13	D	0	20	80									2			3		2		20								
24	X	7	20	212.9	M	0	25	75									2			2		1	3	20			1					
24	X	7	23	212.93	M	25	30	45					30				2						5									
25	X	1	44	214.44	D	0	20	80									3			1		1	2	20			1					
25	X	3	63	217.62	M	5	40	55			2	5					20															
25	X	7	78	223.27	D	0	20	80									5			2		1	2	20								
26	X	2	128	226.36	M		25	75				2					3		10	2				20								
26	X	6	57	231.15	D		20	80								2	5			1				20								
27	X	1	50	233.8	D	3	27	70					3			3	7			2				7								
27	X	2	48	235.28	M	20	60	20					15			3	8		3	2		1										
27	X	4	11	237.91	M	10	60	30				2	7			7	10			1												
27	X	7	24	242.04	M		15	85								3	5		1	1				15			2					
28	X	1	26	243.26	D		25	75					3			2	3			2				11			4					
28	X	6	20	250.33	M		25	75					2			3	5		2	5												
28	X	6	24	250.37	M	5	30	65				2				1	6		5			2		20								
28	X	6	41	250.54	M		20	80				2				3	5							20			4					
29	X	1	130	253.9	D		25	75		3		8				5	5		2	2				10							carbonate needles
29	X	2	43	254.53	D		20	80									3			2				5			2					
29	X	6	40	260.5	D		20	80								5	6			2				7			1					
30	X	1	50	262.7	D		20	80				1				3	5			3												
30	X	1	125	263.45	M	3	80	17				2			1	1	5					30										
30	X	2	70	264.4	D		5	95				5				2	20					1										
30	X	5	134	269.51	D		2	98				2				1	2			3												
31	X	1	73	272.63	D		10	90								3	10			3		5		20								
31	X	4	72	276.73	M	5	60	35					2			2	7					15		8								
31	X	6	41	279.42	M	3	57	40	2			4	4		1		8			3		15		12								
32	X	1	77	282.27	D		5	95				1					3			3		2		30								
32	X	2	12	283.12	M	0	40	60								2	10					5		15								
32	X	3	72	285.22	M		40	60									2					6		10								
32	X	4	78	286.78	M	75	24	1														10		10								
32	X	5	58	288.08	M		30	70				2					2			2		5		20								
32	X	CC	11	290.63	D		2	98	1			1								2				30								
34	X	1	33	293.53	M		60	40	2						1	3	10					15		20								
34	X	2	45	295.15	D		15	85	3				1			5	10			3				25								

Sample						Texture			Mineral										Biogenic													
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																
34	X	5	48	299.68	M		60	40	3							5	15			4		30		20								
34	X	6	28	300.98	D		15	85	2							3	15			2		10		30								
35	X	1	37	301.17	M	20	20	60					10				5					15		10								
35	X	1	140	302.2	M	15	25	60	4			8				5	8					5		8								
35	X	2	51	302.81	D	2	23	75	2			8				3	4			8				2								
35	X	5	68	307.48	D	3	22	75			2	8				4	4			8				10								
35	X	6	108	309.38	M	15	25	60	5			12					10			5		2		5								
36	X	1	65	311.05	D		5	95								3	3			1				15								
37	X	1	15	320.15	M		55	45	2			3	2		1	3	10			3		6		25								
37	X	1	38	320.38	D		20	80	2			4				3	10			6		4		12								
37	X	6	44	327.94	D		20	80	2				2				8			4		3		20								
38	X	1	20	329.9	D		25	75									5			1												
38	X	4	16	334.36	M		30	70											1	1												
38	X	6	42	337.62	D		25	75				2					4			2				1								
39	X	2	55	341.25	D		30	70				2				2	8			1							1					
39	X	6	48	347.11	D	3	17	80		6					2	4	8					4		3			1					
39	X	7	78	348.41	D		25	75		2		2				2	6															
40	X	2	36	350.76	D		20	80				3				7	5			3							1					
40	X	4	54	353.91	D		20	80								6	5	3		2							2					
41	X	1	14	358.64	D		20	80	1			5	5		2	2	8										1					
41	X	1	96	359.46	M		30	70				7			2	3	7		5													
41	X	4	47	362.97	D		25	75				7	6			10	6			1							2					
42	X	1	43	368.63	D		20	80				2			1	2	3															
42	X	6	56	375.74	D		20	80				1				5	3										2					
43	X	1	61	378.41	D		25	75				3				2	10			1												
43	X	3	26	381.06	M	4	25	71				2	2			2				2				15			2					
43	X	5	27	384.07	D		20	80							3	2	2			2				20								
44	X	1	35	387.75	M	10	20	70	1							3	7					11										
44	X	3	64	391.04	D		30	70		6						1	3							1			1					
45	X	1	65	397.75	D		2	98								4																
45	X	3	59	400.69	D		10	90								2	10			1												
45	X	4	22	401.82	D	1	19	80								3	5			1												
47	X	1	68	408.38	D		10	90	2				3		1	3	10			1				4								
47	X	3	37	410.42	M		25	75	2							3	10			2		1										
47	X	4	57	411.79	D		10	90	1			2	3			2	10			2				6								
48	X	1	73	417.03	D		5	95				4				2	6			1							1					
48	X	3	40	419.7	M		70	30								5																
48	X	5	128	423.58	M		70	30							1	2	2			1		1										
49	X	1	37	426.27	D		15	85				2				2	8			3		2		25								
49	X	1	62	426.52	M		55	45	2			1	2		1	3	10			4		6		25								
49	X	3	99	429.6	M		60	40	3	8		2			1		8			4				30								
49	X	5	42	431.97	D		20	80	3	5						4	10			3		5		15								
50	X	1	42	436.02	D	3	27	70	3			15				5	5			3				3			3					
50	X	2	41	437.43	M	10	30	60	5	5	3						10	3		2		8					1					
51	X	2	76	447.46	D		2	98								2				1												
51	X	4	103	450.73	M	30	70					5					10					2										
51	X	5	63	451.83	M	70	30					5					10					2	1									

Sample						Texture			Mineral										Biogenic													
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																
52	X	1	68	455.38	D		10	90					2			3	10					4		25							
52	X	2	114	457.34	M		60	40	3	5		1			2	3	10					6		12							
52	X	4	76	459.96	M	10	60	30	5	5		2	3			4	10					4		6							
52	X	6	71	462.48	D		15	85		4		2				3	10					4		20							
53	X	2	52	465.78	D	3	27	70	2		2	15				3	4			4		2									
53	X	2	97	466.23	M	20	20	60	3			8					5			8		3					8				
53	X	3	132	468.08	M	20	20	60				18	8				8					3					4				
53	X	4	30	468.56	M	5	25	70	8		8					8				5				3							
53	X	4	31	468.57	D	3	27	70	3		5									3		3									
53	X	6	47	471.73	M	15	25	60	3		8					4	5					4									
Hole C																																
1	H	1	107	1.07	D		40	60				3				3			6	2		3		5							
1	H	3	70	3.61	D	1	30	69				2				3	5		3	2		5		5							
1	H	4	6	4.47	M	5	10	85								3			2			6									Clay matrix is 90% authigenic carbonate
1	H	6	44	7.35	M	2	40	58				2							3	7		1									
2	H	2	35	9.35	D		30	70		40						7	5			5				3						2	
2	H	3	149	11.99	D		25	75		40						7	3			3				3		5					
2	H	4	82	12.82	M	2	30	68					3			5	5		2	3										2	
4	H	1	50	19.5	D		30	70								2				4				5						2	
4	H	2	117	21.67	M	10	40	50				5				10	20			2				5							
4	H	6	50	27	D		25	75									3		2	5				8							
5	H	2	20	30.2	D	3	17	80	3	8						1	8			10		2		10							
5	H	2	122	31.22	M	20	20	60					8			10				10											
5	H	6	40	36.4	D	3	27	70				6			1	1	4			6				2							
6	H	1	30	38.3	D		30	70				8				5	6			5											
6	H	4	107	42.19	M	3	35	62		60						3	2			8										3	
6	H	6	37	43.34	D		30	70				3					5			20					2					8	
7	H	1	126	48.76	M	15	30	55				3				3	5		5	2											
7	H	1	60	48.1	D		25	75								3	5			3				5							
7	H	2	89	49.89	M		40	60										95													
7	H	5	69	53.49	M		25	75				3				3	2		2	3				30						5	More brownish
9	H	2	120	61.7	D		30	70				7				5	7		1	5											
9	H	6	68	67.18	D		40	60				10				6	10			8											
9	H	CC	8	68.26	M	5	40	55				15				5	15			10											
10	H	1	41	68.91	D		30	70								3	10			5										2	
10	H	5	45	73.84	D		25	75								5	5		2	3											
10	H	7	47	76.45	D		30	70								2	10			4											
10	H	7	133	77.31	M	80	10	10				7				3	10														
11	H	1	60	78.6	D		35	65				10				10	10													3	
11	H	6	25	84.55	M		40	60		5		15				3	20														
11	H	7	37	86.17	M	50	30	20				20	2	5		10	60														
12	H	1	40	87.9	D		2	98				*				3	1			2											in clay
12	H	3	60	91.1	D		10	90				1				2	5			2										1	in clay
13	H	2	77	99.27	D		20	80					1			5	18					4		5							
13	H	4	27	101.14	M	10	60	30	2	5		3	1				10					6		4							silt layer
14	H	2	50	108.5	D		2	98								3	10			1										*	in clay
14	H	2	110	109.1	D	10	90					20					30														in sand (silt)

Sample						Texture			Mineral										Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Quartz	Volcanic Glass	Calcareous shell fragments	Diatoms	Fish Remains	Foraminifers	Foraminifers&nannofossils	Nannofossils	Radiolarians	Siliceous Sponge Spicules	Siliceous fossils&spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole C (continued)																															
14	H	5	45	112.95	M		5	95				5				1	10			3											
14	H	6	109	114.94	M	30	70					15				25	25			25											in sand
15	X	1	22	116.22	M	1	70	1	3				2			3	15			3		6									moussy sediments
15	X	5	66	121.48	D		20	80	2			3		5		3	10			4											Lithology of the core
17	X	1	90	122.9	M		2	98												3		3		50						1	in carbonate clay (rxn w HCl)
17	X	3	52	125.28	D		10	90				3				3	5			15											in clay
17	X	5	30	127.85	D		15	85				5		2		3	10			8											
17	X	CC	21	128.2	M		40	60				7					10			1											in sandy silt
19	X	2	57	132.07	D		15	85	2				2			2	10			6		10									
19	X	5	50	135.96	M	5	60	35	2	4			1			2	8					5		6							"coarse layer,forams visible"
20	X	1	46	139.16	M	50	30	20	8				8			8				1		2									
20	X	2	69	140.89	D	3	27	70				10				4	5			15							8				
21	X	1	145	149.85	M	75	25					5				8	30														in sand
21	X	3	64	152.04	D							8				1	5			3											in clay
22	X	1	113	159.03	M	60	30	10	5			3				3	30					4									silt lens
22	X	2	37	159.77	D		20	80	2				3		3	2	10			4	3									6	
22	X	6	90	166.3	M		5	95								3				3		4		6							light grey patch
23	X	1	68	168.08	D		25	75								5	5			5											
23	X	1	95	168.35	M	30	40	30	1			3				3	10														
23	X	3	18	170.58	M		25	75			70				3		2			3											clay consists mainly of carbonate needles
23	X	6	70	175.6	M		25	75									5							2							"fine silt, big nannos"
24	H	1	62	177.72	D		25	75				3	1			3	5							3					2	15	
24	H	6	38	184.98	M	10	60	30				20					50	10	2												
24	H	7	20	185.65	D	2	28	70	3			5					10		2	3		2		3							Moussy
25	H	1	26	186.86	M	3	40	57			2	5					10	4													
25	H	1	53	187.13	D		30	70				5					70			15											
25	H	2	78	188.88	M		40	60									10	50													
25	H	CC	12	191.1	M	3	40	57									15	40													
26	H	1	73	191.83	D		40	60			5	5					10	5		2										5	5	
26	H	2	53	193.13	M	3	40	57				7				10	5		10	7		3									3	
28	H	1	47	197.37	D		30	70		5		3				8	3			1				5					2	3	
28	H	3	30	199.7	M	5	30	65				3					15		6	5		2		3					2	2	
Hole D																															
1	H	CC	18	4.86	D		35	65				3				8	20		3			2		20							
2	H	CC	14	14.74	D		25	75									5	2		1				1						1	
3	H	7	34	23.84	D		30	70											1			2		11							
Hole E																															
1	R	1	34	474.04	D		25	75							2		10			2											
2	R	2	128	483.77	M	3	40	57									50					35									
3	R	1	81	492.01	D		25	75									5			5				3							
3	R	2	100	493.64	M	3	30	67									3					40									
4	R	2	27	502.67	D		25	75			5	5					5											1			
5	R	1	53	511.03	M		40	60			30						10														
6	R	1	42	520.62	M	30	50	20	3		15					4	5					40	20								
7	R	1	123	531.03	M		30	60			10					3	8					8									
7	R	2	58	531.88	D		15	85								3	16					4									

Sample						Texture									Biogenic		
Core	Core type	Section	Top	Bottom	Lithology	Sand	Silt	Clay	Biotite	Feldspar	Glauconite	Muscovite	Opaque minerals	Quartz	Diatoms	Foraminifers	Comments
Hole B																	
37	X	1	138	141	M	0	25	75				4	5	1	25	10	Different colored horizons
51	X	3	24	28	M	15	10	75			5		3	2	2	10	Graded bedding
Hole C																	
6	H	4	103	105	M	0	20	80		1			5	2	5	1	Micritic carbonate matrix
Hole E																	
6	R	1	38	41	M	0	40	60			1		2	2	1	40	Parallel bedding