NGHP Expedition 1

Cored Interval Site 7 - Hole B & D

Seafloor 1295.8 (m)

Barrel Sheet Key

Cored & Recovered:


Core Recovery


Cored Interval No Recovery

Lithology:


Catwalk Sampled Core


Silty Clay


Nannofossil Rich Clay


Nannofossil Bearing Clay


Foraminifera Bearing Clay


Clay

Bioturbation:


Rare


Moderate

Diagenesis:

PY Pyrite

FeS

FeS Nodule


Authigenic Carbonate


Carbonate Bands

Structures:


Silt/Sand Beds


Silt/Sand Laminae


Planar Lamination

Fossils:


Shell Fragments


Foraminifera


Mollusk

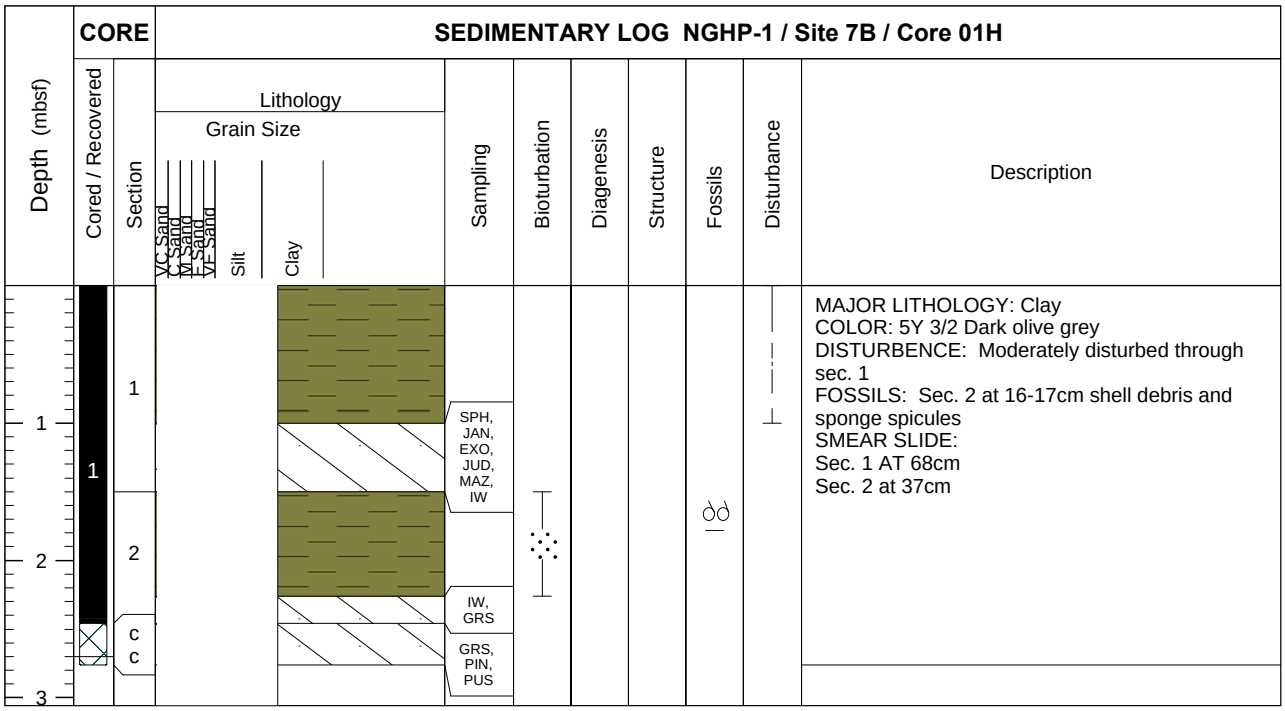
Disturbance:

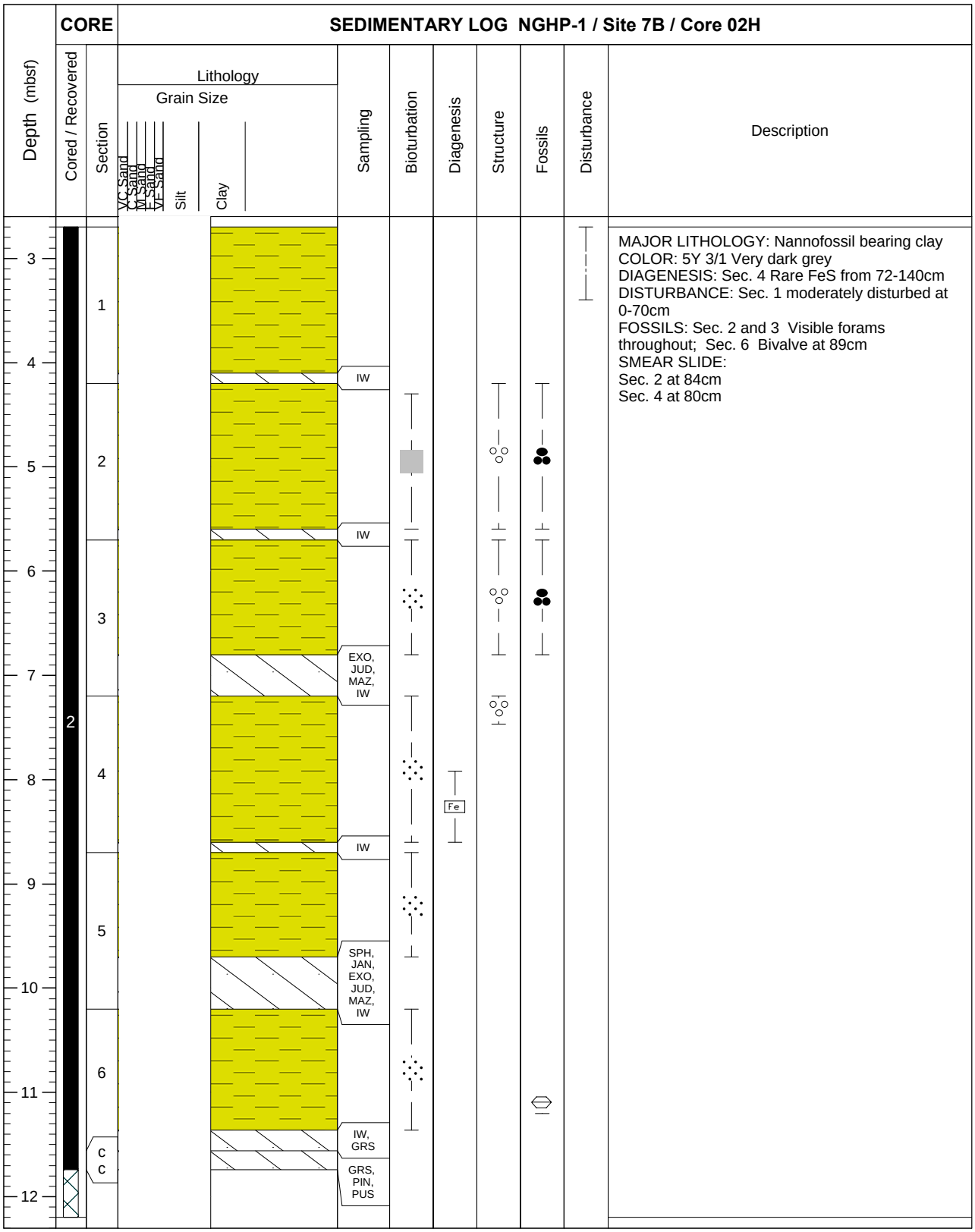
Soupy

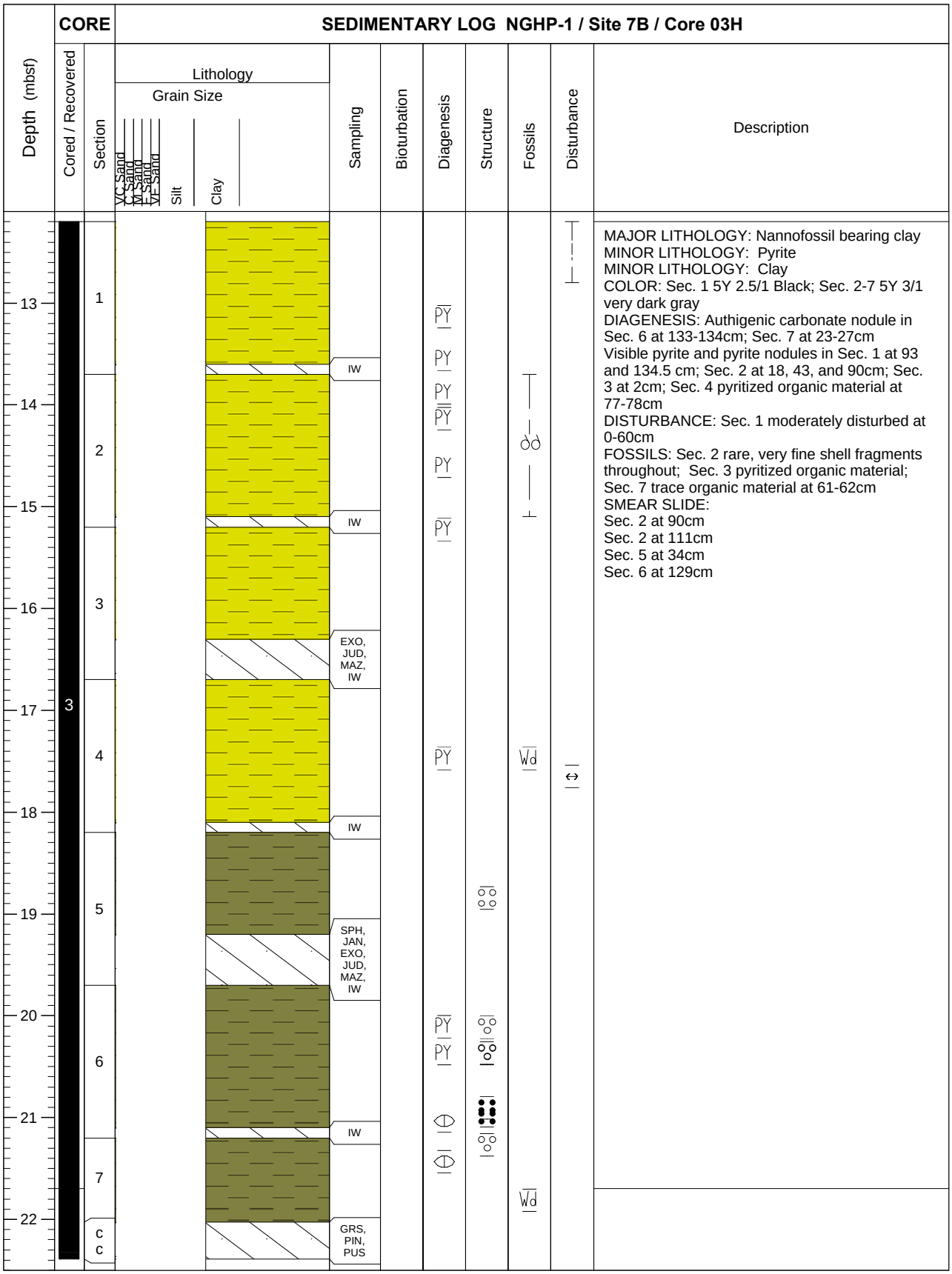
Gas Expansion Cracks

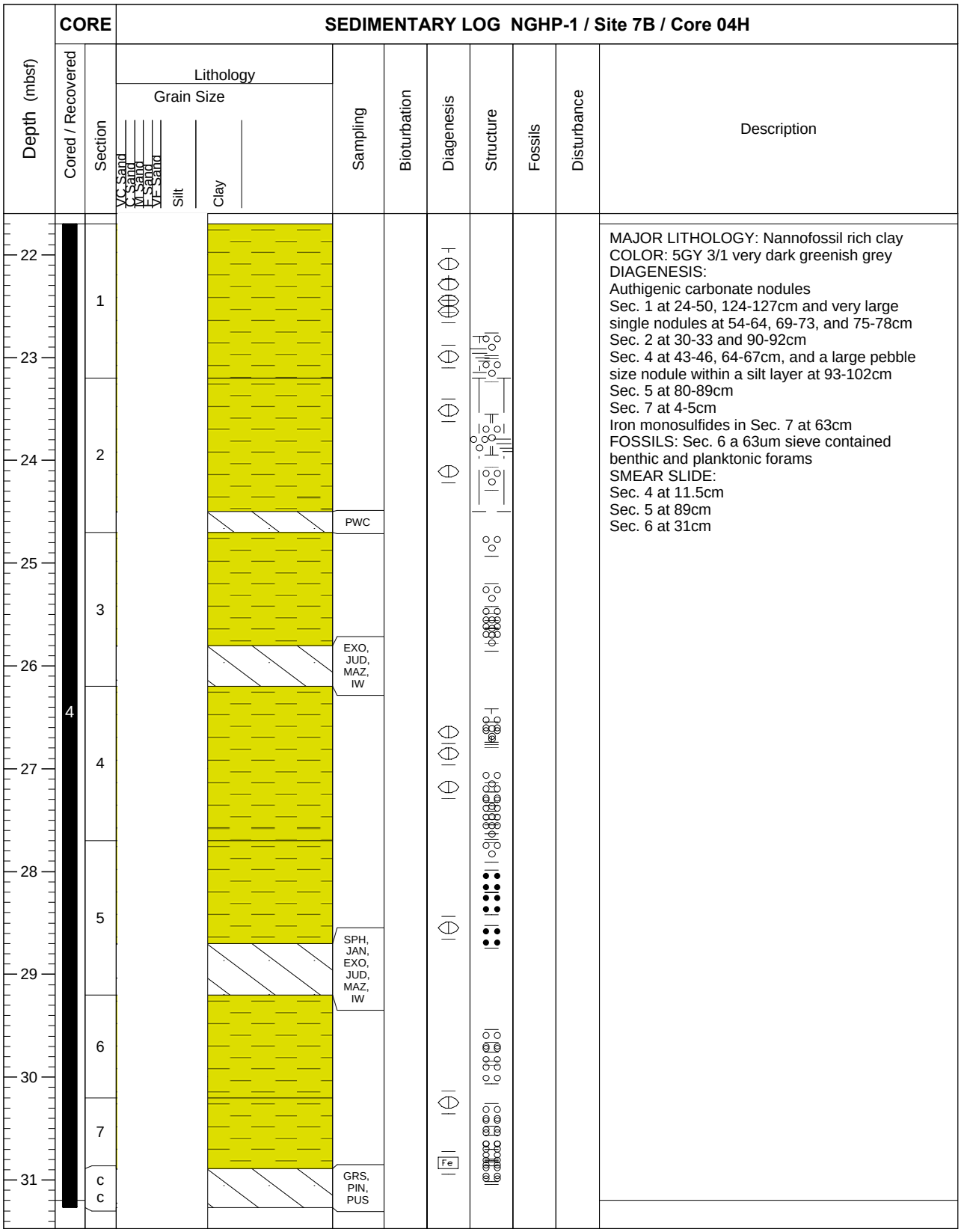
Moderately Disturbed

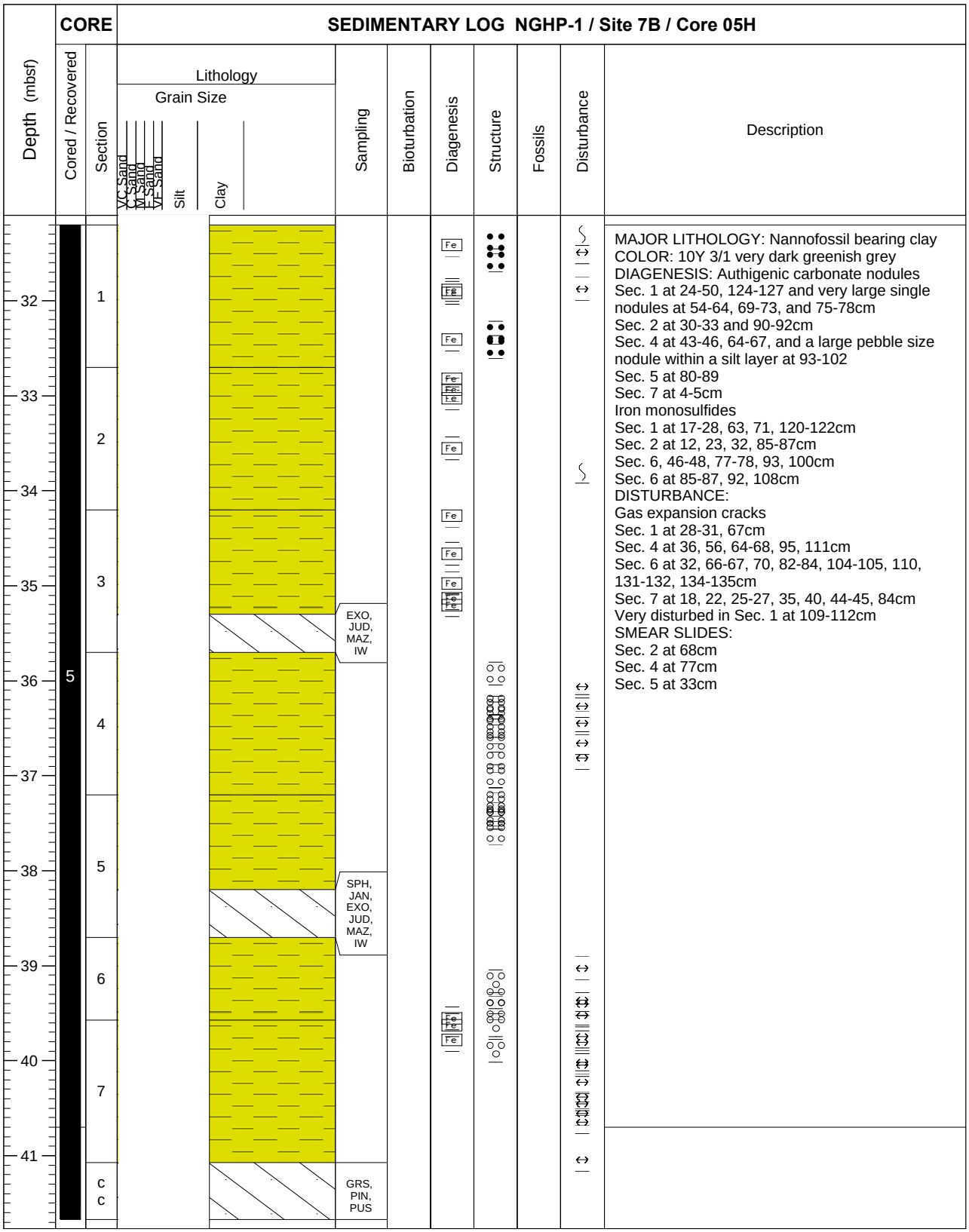

Very Disturbed

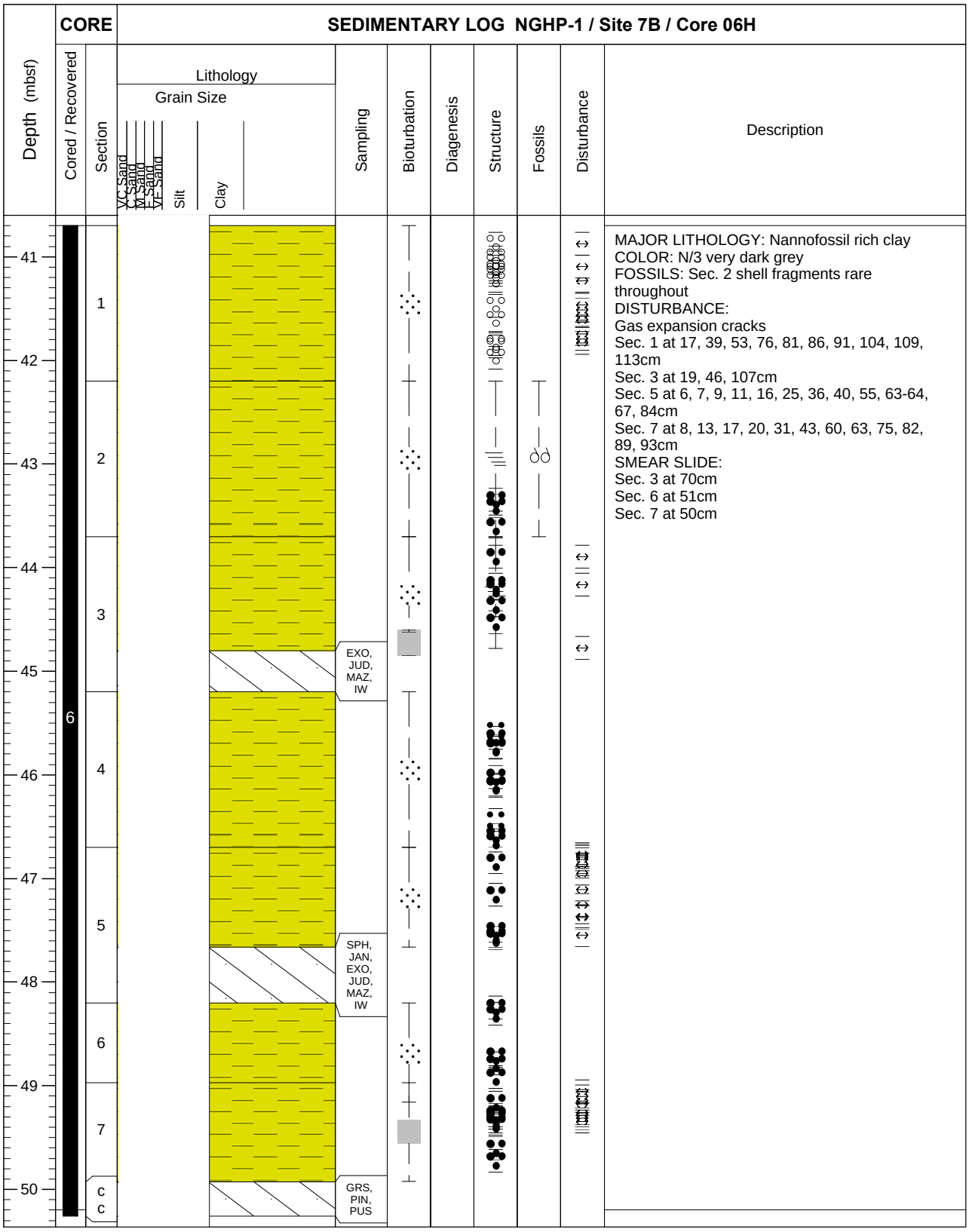

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 01H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
1
2
3
1
2
c
c
SPH, JAN, EXO, JUD, MAZ, IW
IW, GRS
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
COLOR: 5Y 3/2 Dark olive grey
DISTURBENCE: Moderately disturbed through sec. 1
FOSSILS: Sec. 2 at 16-17cm shell debris and sponge spicules
SMEAR SLIDE:
Sec. 1 AT 68cm
Sec. 2 at 37cm

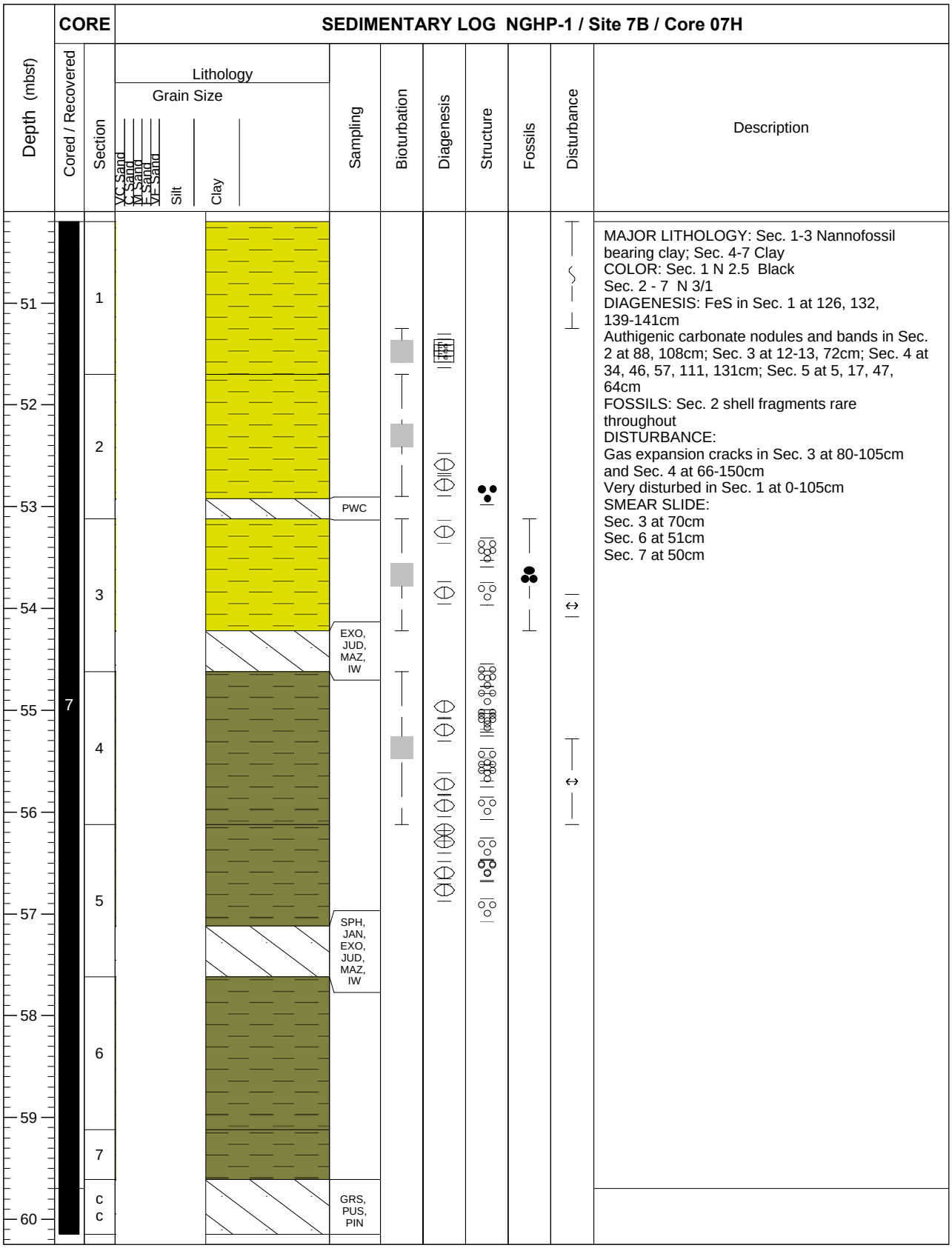

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 02H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
3
4
5
6
7
8
9
10
11
12
2
1
2
3
4
5
6
C
C
IW
IW
EXO, JUD, MAZ, IW
IW
SPH, JAN, EXO, JUD, MAZ, IW
IW, GRS
GRS, PIN, PUS
Fe
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 5Y 3/1 Very dark grey
DIAGENESIS: Sec. 4 Rare FeS from 72-140cm
DISTURBANCE: Sec. 1 moderately disturbed at 0-70cm
FOSSILS: Sec. 2 and 3 Visible forams throughout; Sec. 6 Bivalve at 89cm
SMEAR SLIDE:
Sec. 2 at 84cm
Sec. 4 at 80cm

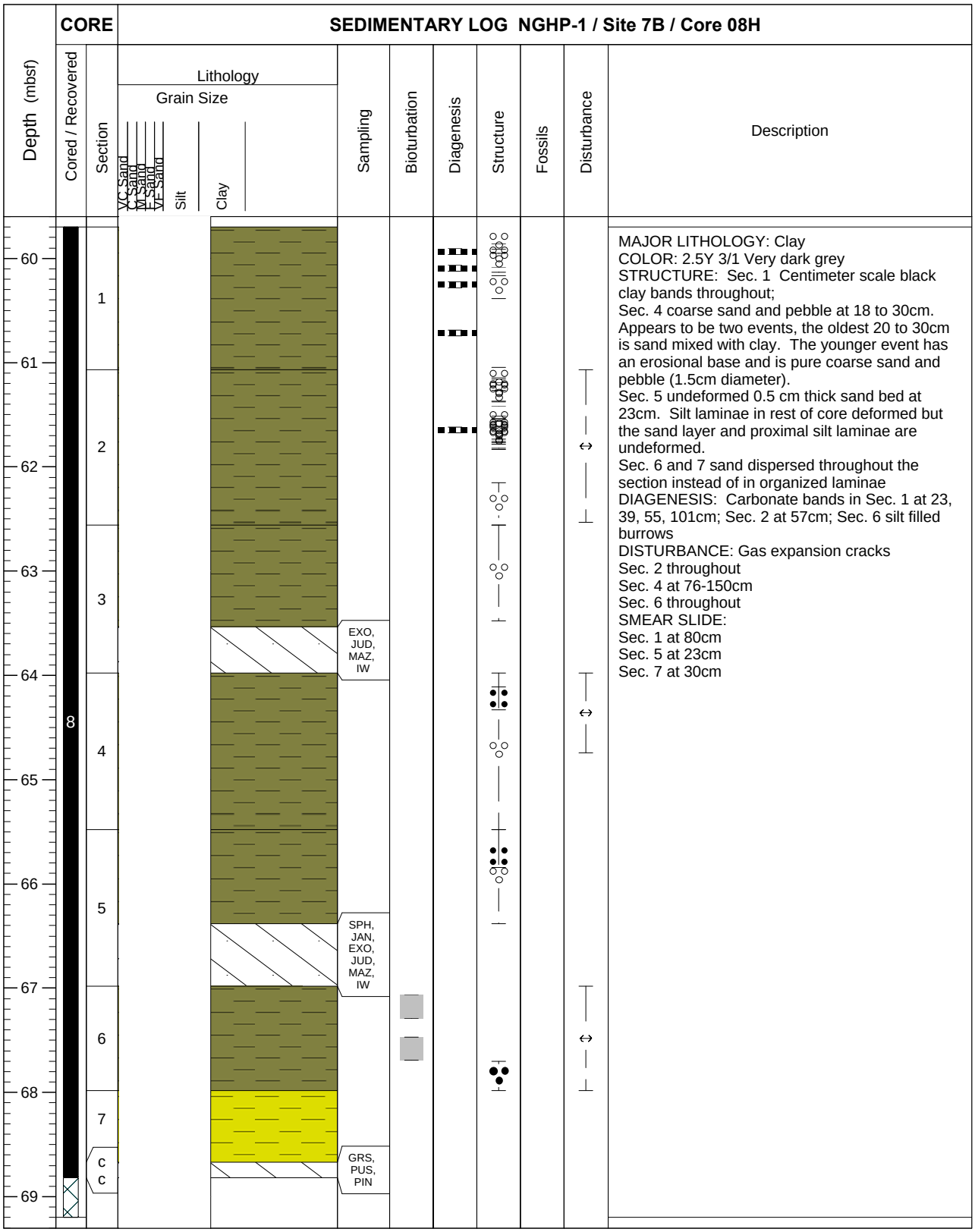

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 03H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
13
14
15
16
17
18
19
20
21
22
3
1
2
3
4
5
6
7
C
C
IW
IW
EXO, JUD, MAZ, IW
IW
SPH, JAN, EXO, JUD, MAZ, IW
IW
GRS, PIN, PUS
PY
Wd
MAJOR LITHOLOGY: Nannofossil bearing clay
MINOR LITHOLOGY: Pyrite
MINOR LITHOLOGY: Clay
COLOR: Sec. 1 5Y 2.5/1 Black; Sec. 2-7 5Y 3/1 very dark gray
DIAGENESIS: Authigenic carbonate nodule in Sec. 6 at 133-134cm; Sec. 7 at 23-27cm
Visible pyrite and pyrite nodules in Sec. 1 at 93 and 134.5 cm; Sec. 2 at 18, 43, and 90cm; Sec. 3 at 2cm; Sec. 4 pyritized organic material at 77-78cm
DISTURBANCE: Sec. 1 moderately disturbed at 0-60cm
FOSSILS: Sec. 2 rare, very fine shell fragments throughout; Sec. 3 pyritized organic material; Sec. 7 trace organic material at 61-62cm
SMEAR SLIDE:
Sec. 2 at 90cm
Sec. 2 at 111cm
Sec. 5 at 34cm
Sec. 6 at 129cm

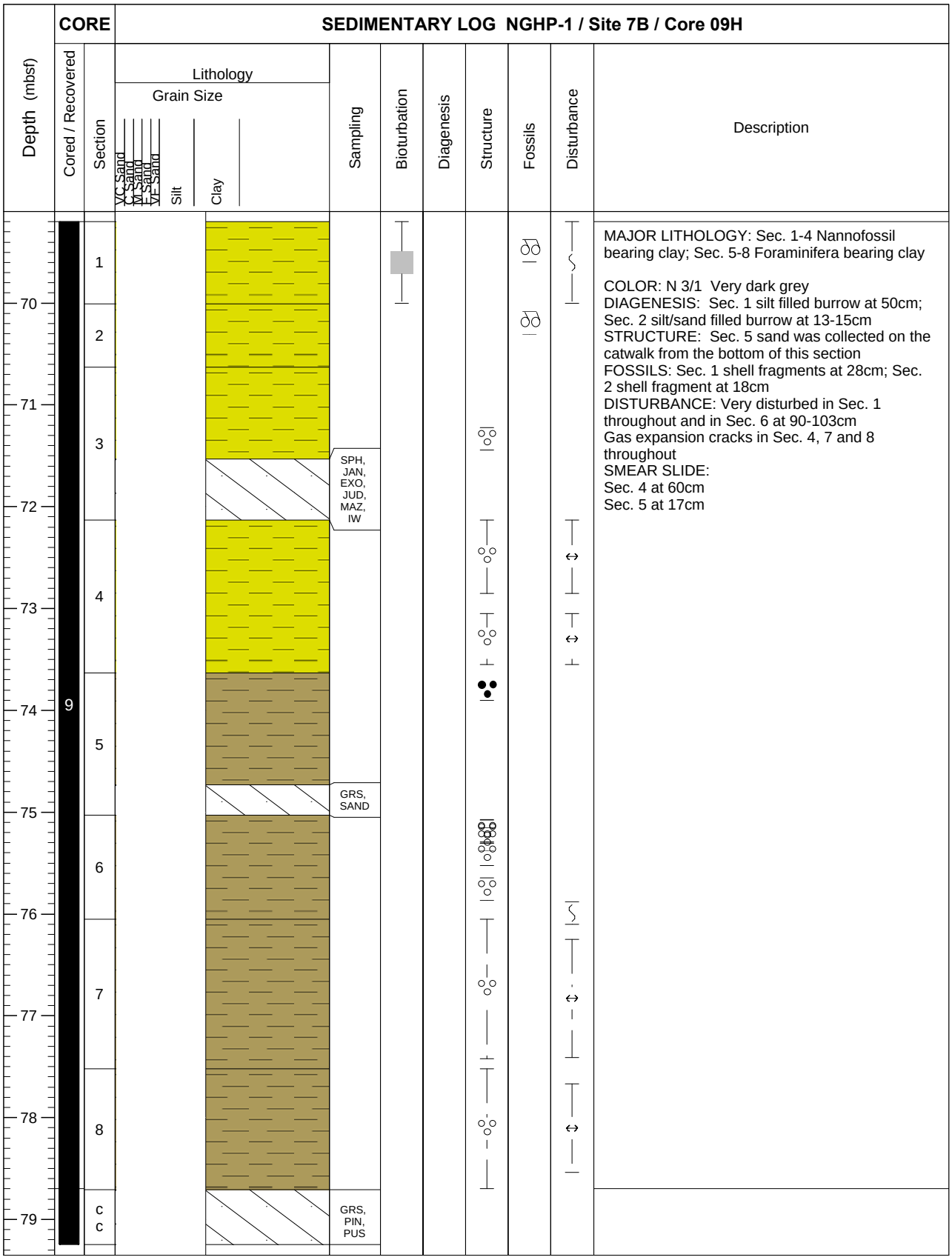

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 04H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
22
23
24
25
26
27
28
29
30
31
4
1
2
3
4
5
6
7
c
c
PWC
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
Fe
MAJOR LITHOLOGY: Nannofossil rich clay
COLOR: 5GY 3/1 very dark greenish grey
DIAGENESIS:
Authigenic carbonate nodules
Sec. 1 at 24-50, 124-127cm and very large single nodules at 54-64, 69-73, and 75-78cm
Sec. 2 at 30-33 and 90-92cm
Sec. 4 at 43-46, 64-67cm, and a large pebble size nodule within a silt layer at 93-102cm
Sec. 5 at 80-89cm
Sec. 7 at 4-5cm
Iron monosulfides in Sec. 7 at 63cm
FOSSILS: Sec. 6 a 63um sieve contained benthic and planktonic forams
SMEAR SLIDE:
Sec. 4 at 11.5cm
Sec. 5 at 89cm
Sec. 6 at 31cm

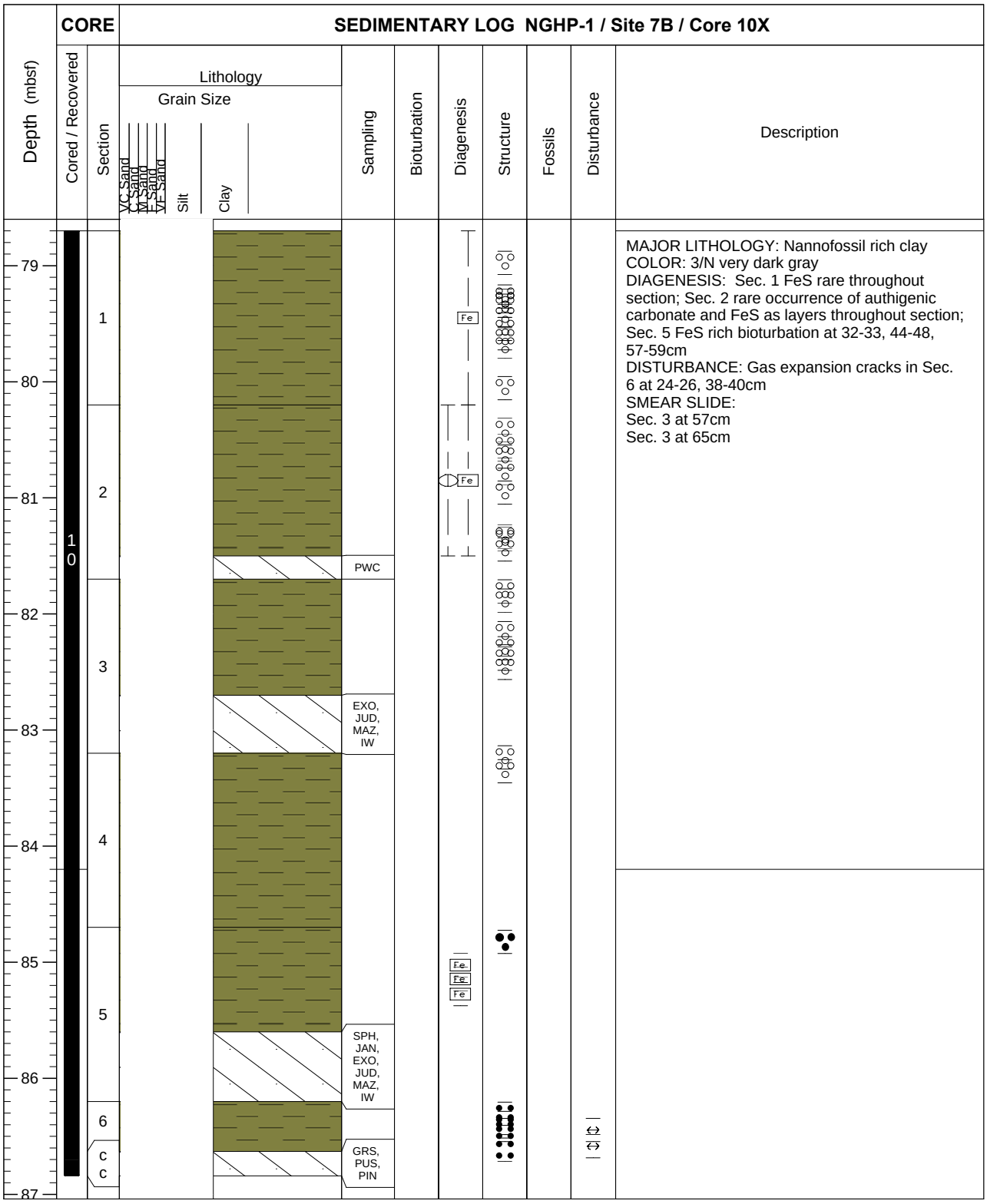

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 05H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
32
33
34
35
36
37
38
39
40
41
5
1
2
3
4
5
6
7
c
c
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
Fe
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 10Y 3/1 very dark greenish grey
DIAGENESIS: Authigenic carbonate nodules
Sec. 1 at 24-50, 124-127 and very large single nodules at 54-64, 69-73, and 75-78cm
Sec. 2 at 30-33 and 90-92cm
Sec. 4 at 43-46, 64-67, and a large pebble size nodule within a silt layer at 93-102
Sec. 5 at 80-89
Sec. 7 at 4-5cm
Iron monosulfides
Sec. 1 at 17-28, 63, 71, 120-122cm
Sec. 2 at 12, 23, 32, 85-87cm
Sec. 6, 46-48, 77-78, 93, 100cm
Sec. 6 at 85-87, 92, 108cm
DISTURBANCE:
Gas expansion cracks
Sec. 1 at 28-31, 67cm
Sec. 4 at 36, 56, 64-68, 95, 111cm
Sec. 6 at 32, 66-67, 70, 82-84, 104-105, 110, 131-132, 134-135cm
Sec. 7 at 18, 22, 25-27, 35, 40, 44-45, 84cm
Very disturbed in Sec. 1 at 109-112cm
SMEAR SLIDES:
Sec. 2 at 68cm
Sec. 4 at 77cm
Sec. 5 at 33cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 06H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
41
42
43
44
45
46
47
48
49
50
6
1
2
3
4
5
6
7
c
c
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Nannofossil rich clay
COLOR: N/3 very dark grey
FOSSILS: Sec. 2 shell fragments rare throughout
DISTURBANCE:
Gas expansion cracks
Sec. 1 at 17, 39, 53, 76, 81, 86, 91, 104, 109, 113cm
Sec. 3 at 19, 46, 107cm
Sec. 5 at 6, 7, 9, 11, 16, 25, 36, 40, 55, 63-64, 67, 84cm
Sec. 7 at 8, 13, 17, 20, 31, 43, 60, 63, 75, 82, 89, 93cm
SMEAR SLIDE:
Sec. 3 at 70cm
Sec. 6 at 51cm
Sec. 7 at 50cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 07H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
51
52
53
54
55
56
57
58
59
60
7
1
2
3
4
5
6
7
c
c
PWC
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Sec. 1-3 Nannofossil bearing clay; Sec. 4-7 Clay
COLOR: Sec. 1 N 2.5 Black
Sec. 2 - 7 N 3/1
DIAGENESIS: FeS in Sec. 1 at 126, 132, 139-141cm
Authigenic carbonate nodules and bands in Sec. 2 at 88, 108cm; Sec. 3 at 12-13, 72cm; Sec. 4 at 34, 46, 57, 111, 131cm; Sec. 5 at 5, 17, 47, 64cm
FOSSILS: Sec. 2 shell fragments rare throughout
DISTURBANCE:
Gas expansion cracks in Sec. 3 at 80-105cm and Sec. 4 at 66-150cm
Very disturbed in Sec. 1 at 0-105cm
SMEAR SLIDE:
Sec. 3 at 70cm
Sec. 6 at 51cm
Sec. 7 at 50cm

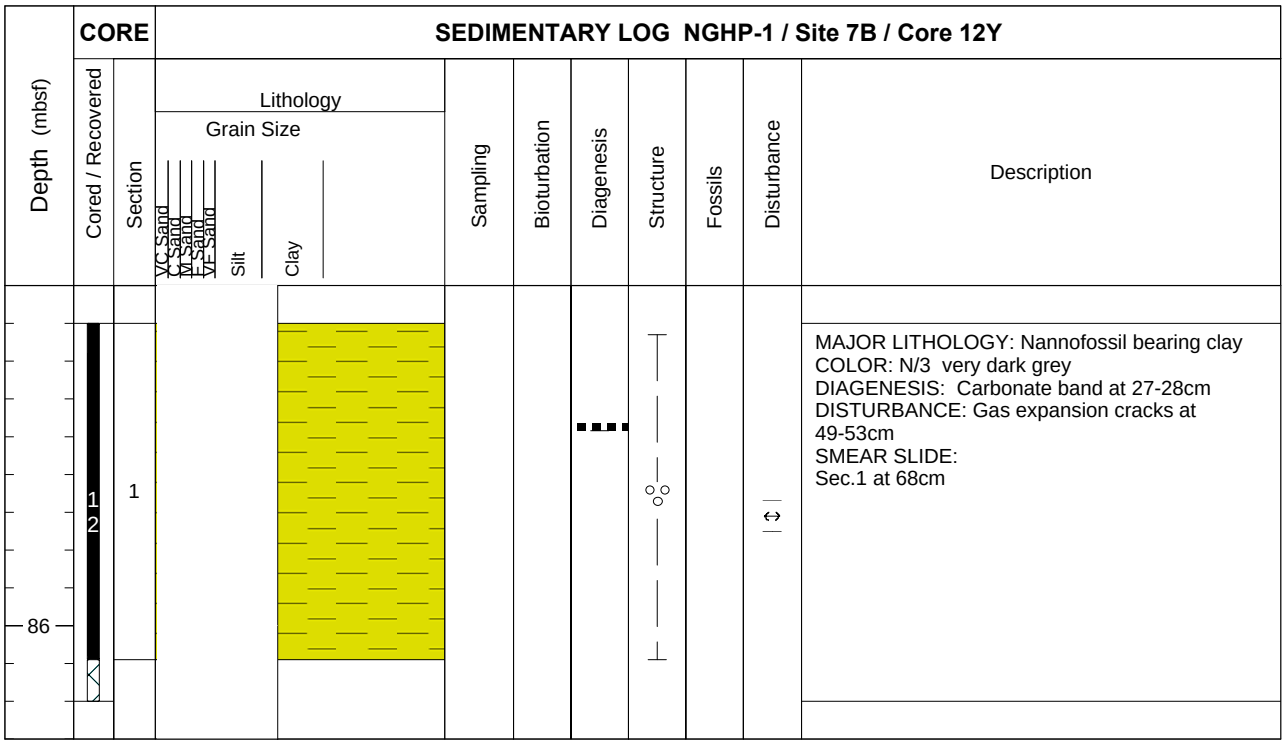

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 08H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
60
61
62
63
64
65
66
67
68
69
1
2
3
4
5
6
7
CC
8
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Clay
COLOR: 2.5Y 3/1 Very dark grey
STRUCTURE: Sec. 1 Centimeter scale black clay bands throughout;
Sec. 4 coarse sand and pebble at 18 to 30cm. Appears to be two events, the oldest 20 to 30cm is sand mixed with clay. The younger event has an erosional base and is pure coarse sand and pebble (1.5cm diameter).
Sec. 5 undeformed 0.5 cm thick sand bed at 23cm. Silt laminae in rest of core deformed but the sand layer and proximal silt laminae are undeformed.
Sec. 6 and 7 sand dispersed throughout the section instead of in organized laminae
DIAGENESIS: Carbonate bands in Sec. 1 at 23, 39, 55, 101cm; Sec. 2 at 57cm; Sec. 6 silt filled burrows
DISTURBANCE: Gas expansion cracks
Sec. 2 throughout
Sec. 4 at 76-150cm
Sec. 6 throughout
SMEAR SLIDE:
Sec. 1 at 80cm
Sec. 5 at 23cm
Sec. 7 at 30cm

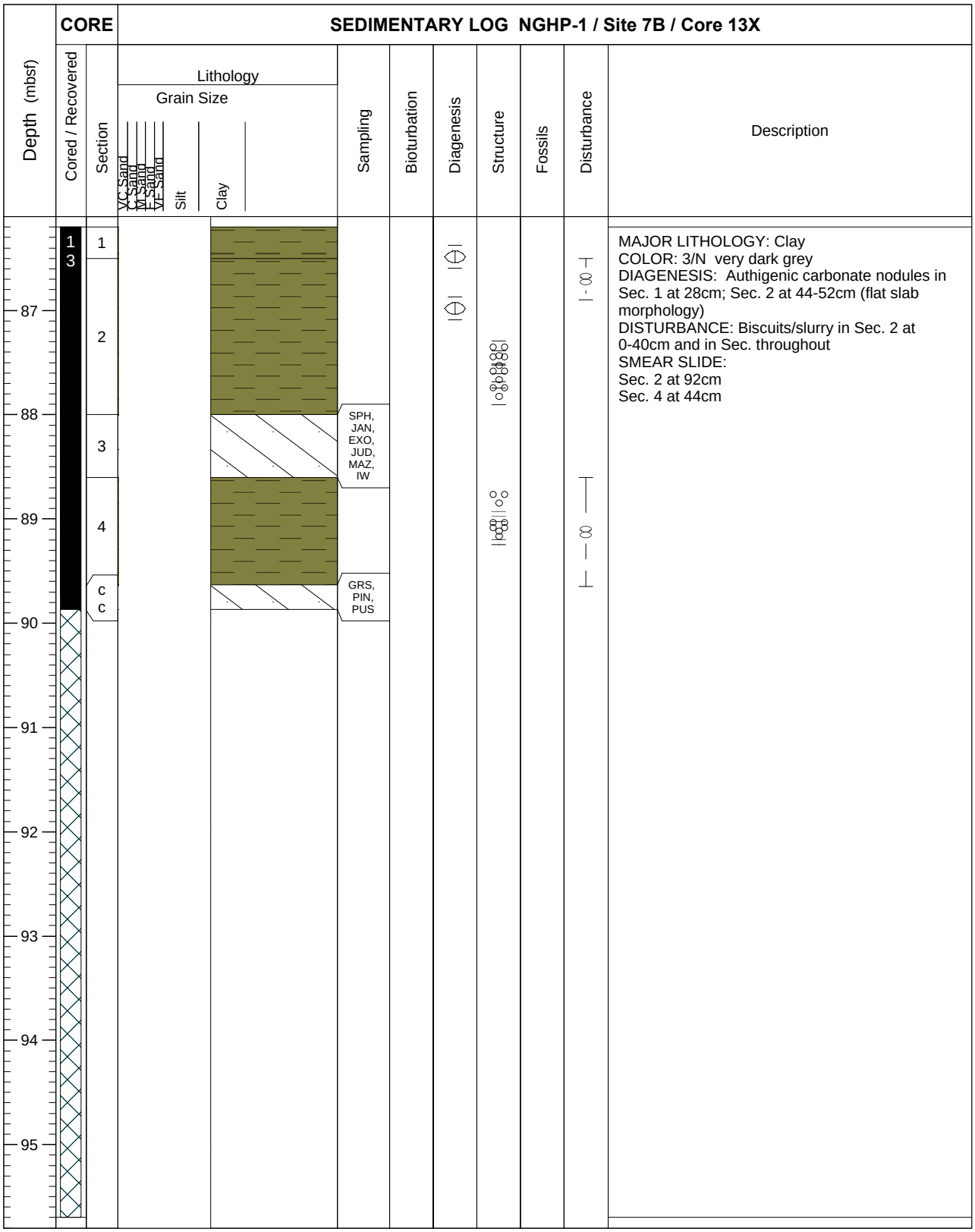

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 09H
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
70
71
72
73
74
75
76
77
78
79
9
1
2
3
4
5
6
7
8
CC
SPH, JAN, EXO, JUD, MAZ, IW
GRS, SAND
GRS, PIN, PUS
MAJOR LITHOLOGY: Sec. 1-4 Nannofossil bearing clay; Sec. 5-8 Foraminifera bearing clay
COLOR: N 3/1 Very dark grey
DIAGENESIS: Sec. 1 silt filled burrow at 50cm; Sec. 2 silt/sand filled burrow at 13-15cm
STRUCTURE: Sec. 5 sand was collected on the catwalk from the bottom of this section
FOSSILS: Sec. 1 shell fragments at 28cm; Sec. 2 shell fragment at 18cm
DISTURBANCE: Very disturbed in Sec. 1 throughout and in Sec. 6 at 90-103cm
Gas expansion cracks in Sec. 4, 7 and 8 throughout
SMEAR SLIDE:
Sec. 4 at 60cm
Sec. 5 at 17cm

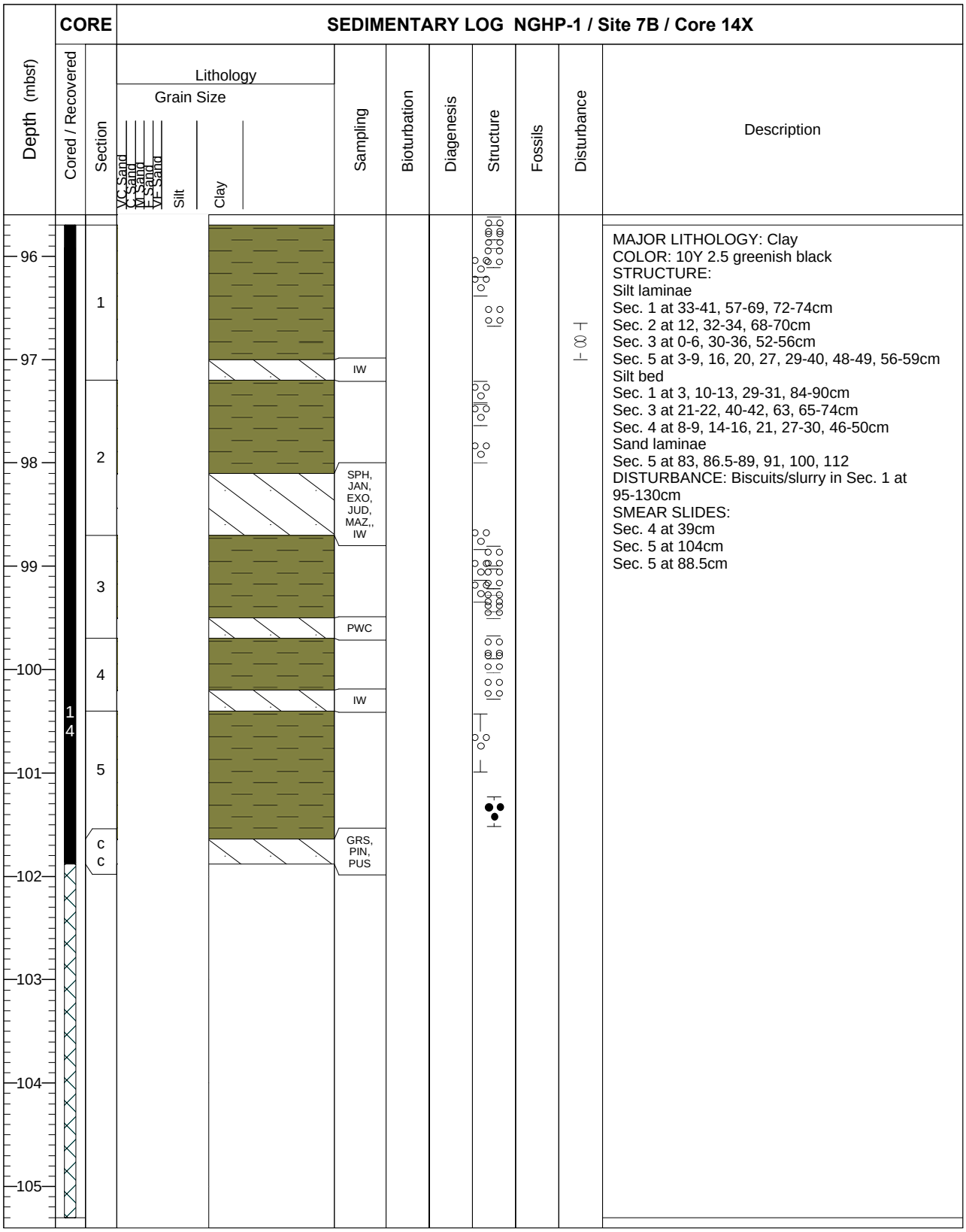

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 10X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
79
80
81
82
83
84
85
86
87
1
2
3
4
5
6
CC
10
PWC
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
Fe
MAJOR LITHOLOGY: Nannofossil rich clay
COLOR: 3/N very dark gray
DIAGENESIS: Sec. 1 FeS rare throughout section; Sec. 2 rare occurrence of authigenic carbonate and FeS as layers throughout section; Sec. 5 FeS rich bioturbation at 32-33, 44-48, 57-59cm
DISTURBANCE: Gas expansion cracks in Sec. 6 at 24-26, 38-40cm
SMEAR SLIDE:
Sec. 3 at 57cm
Sec. 3 at 65cm

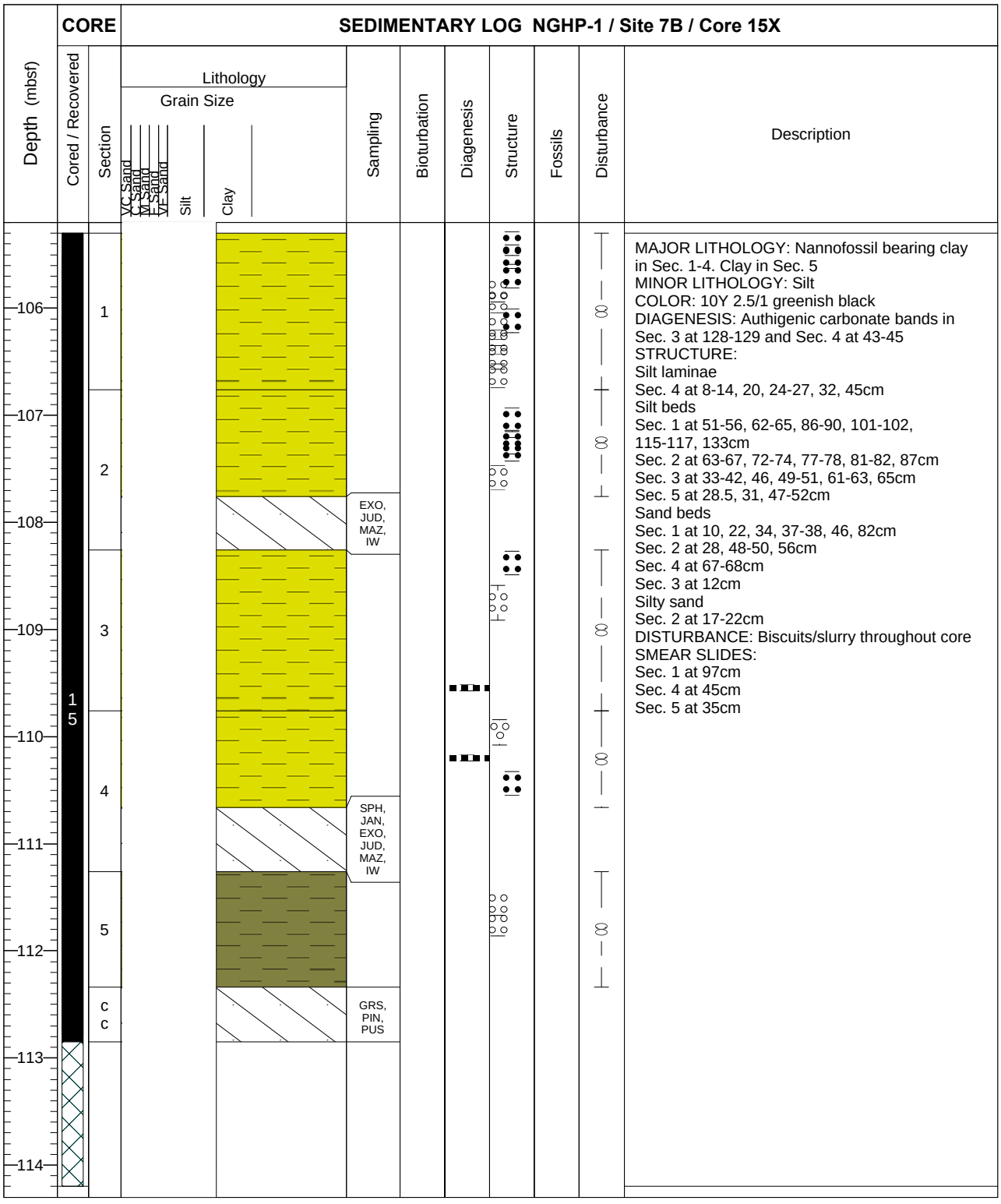
CORE | **SEDIMENTARY LOG NGHP-1 / Site 7B / Core 11P**

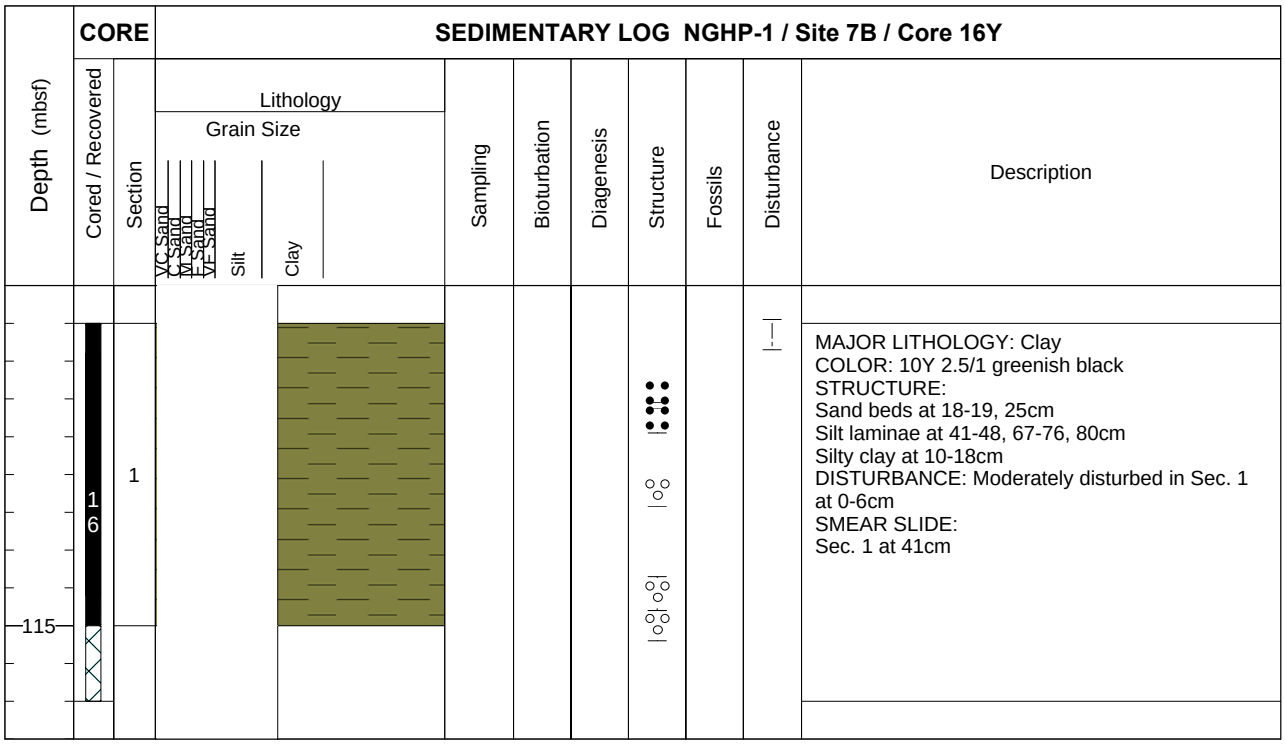
Depth (mbsf)	Cored / Recovered	Section	Lithology: Grain Size (VC Sand, C Sand, M Sand, F Sand, VF Sand, Silt, Clay)	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
85	1 1	1		JAN, MAZ, IW						MAJOR LITHOLOGY: Clay COLOR: N 3 very dark grey STRUCTURE: Clay slightly silty throughout SMEAR SLIDE: Sec. 1 at 60cm

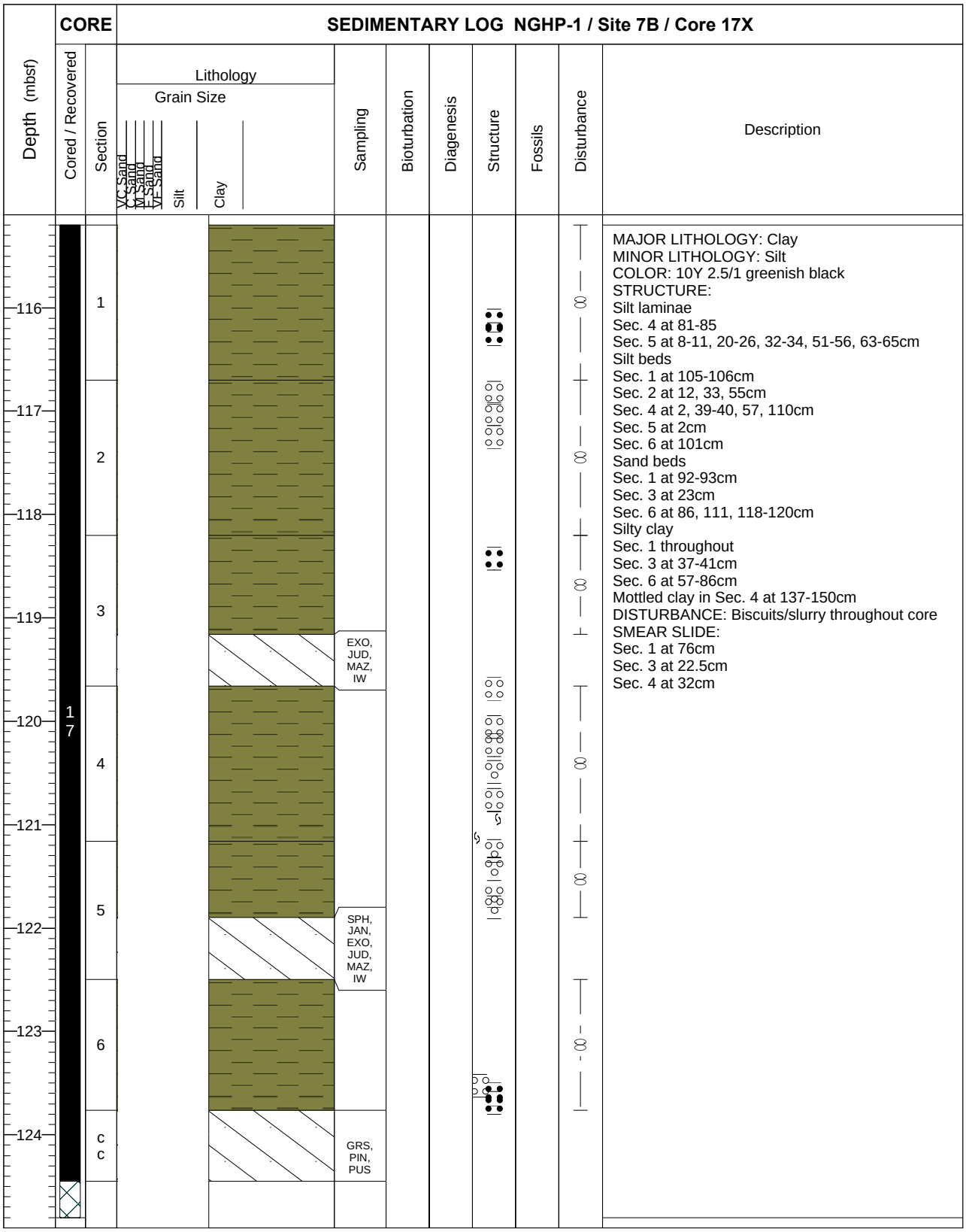

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 12Y
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
86
1
2
1
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: N/3 very dark grey
DIAGENESIS: Carbonate band at 27-28cm
DISTURBANCE: Gas expansion cracks at 49-53cm
SMEAR SLIDE:
Sec.1 at 68cm

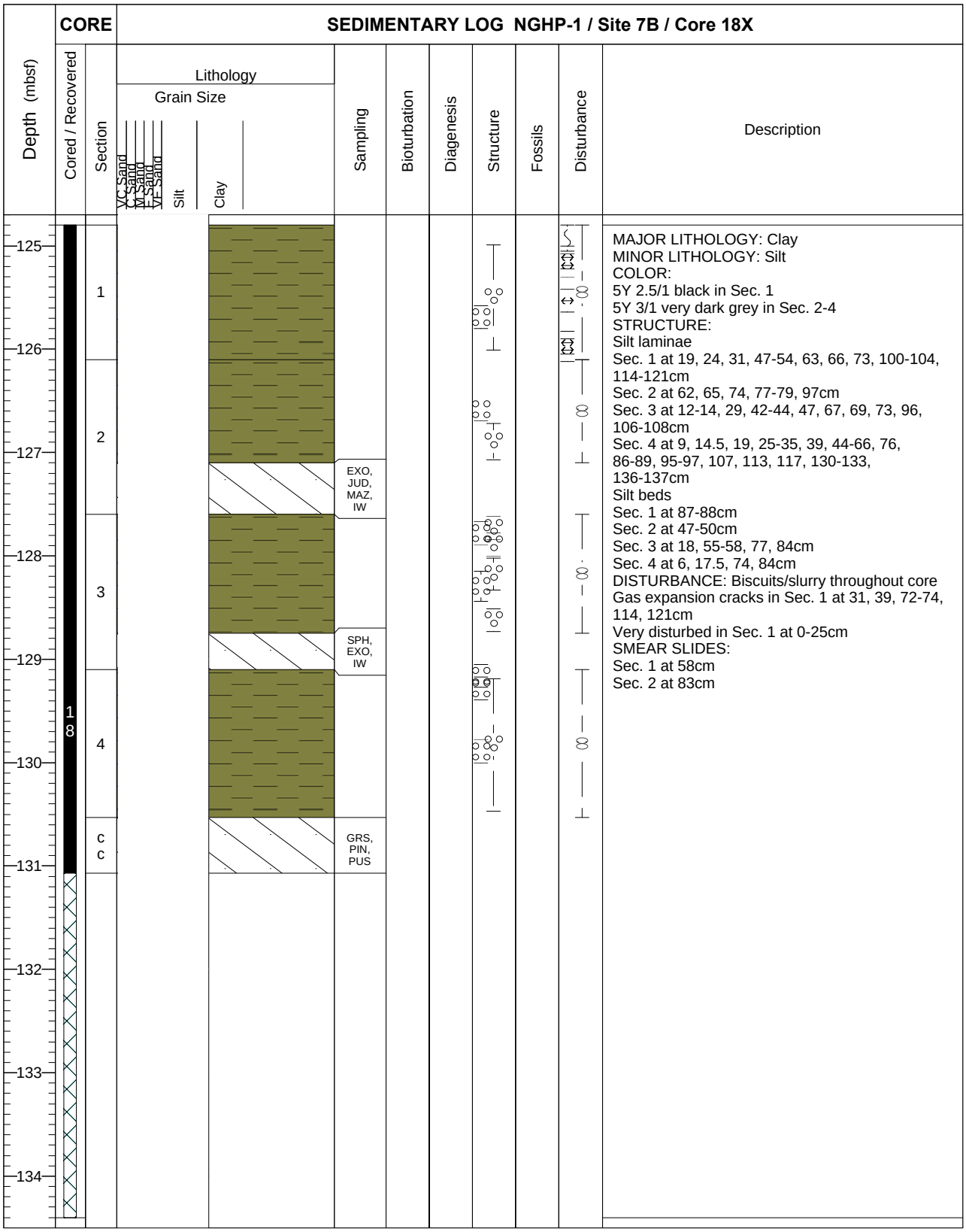

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 13X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
13
1
2
3
4
CC
87
88
89
90
91
92
93
94
95
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
COLOR: 3/N very dark grey
DIAGENESIS: Authigenic carbonate nodules in Sec. 1 at 28cm; Sec. 2 at 44-52cm (flat slab morphology)
DISTURBANCE: Biscuits/slurry in Sec. 2 at 0-40cm and in Sec. throughout
SMEAR SLIDE:
Sec. 2 at 92cm
Sec. 4 at 44cm

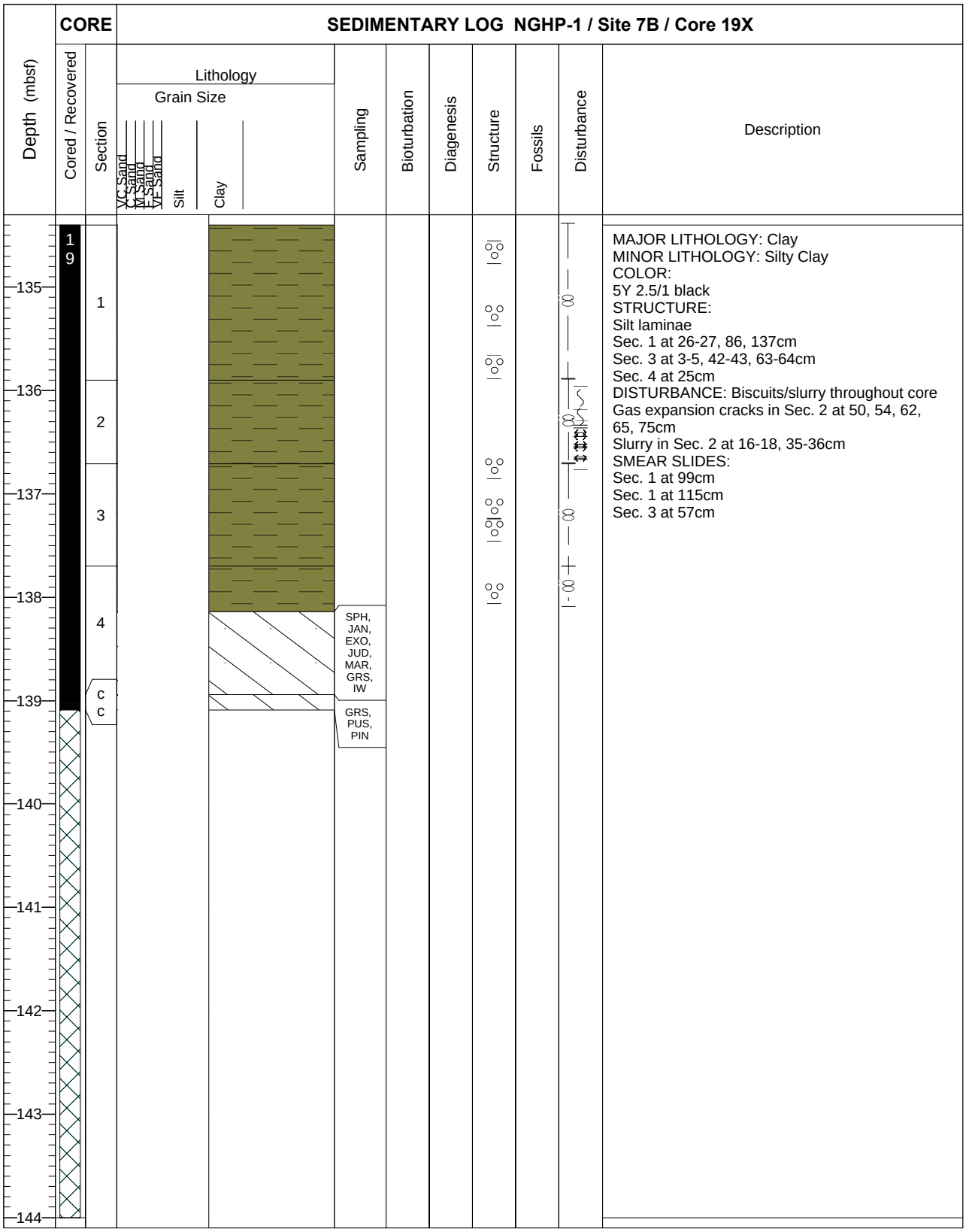

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 14X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
96
97
98
99
100
101
102
103
104
105
14
1
2
3
4
5
CC
IW
SPH, JAN, EXO, JUD, MAZ,, IW
PWC
IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
COLOR: 10Y 2.5 greenish black
STRUCTURE:
Silt laminae
Sec. 1 at 33-41, 57-69, 72-74cm
Sec. 2 at 12, 32-34, 68-70cm
Sec. 3 at 0-6, 30-36, 52-56cm
Sec. 5 at 3-9, 16, 20, 27, 29-40, 48-49, 56-59cm
Silt bed
Sec. 1 at 3, 10-13, 29-31, 84-90cm
Sec. 3 at 21-22, 40-42, 63, 65-74cm
Sec. 4 at 8-9, 14-16, 21, 27-30, 46-50cm
Sand laminae
Sec. 5 at 83, 86.5-89, 91, 100, 112
DISTURBANCE: Biscuits/slurry in Sec. 1 at 95-130cm
SMEAR SLIDES:
Sec. 4 at 39cm
Sec. 5 at 104cm
Sec. 5 at 88.5cm

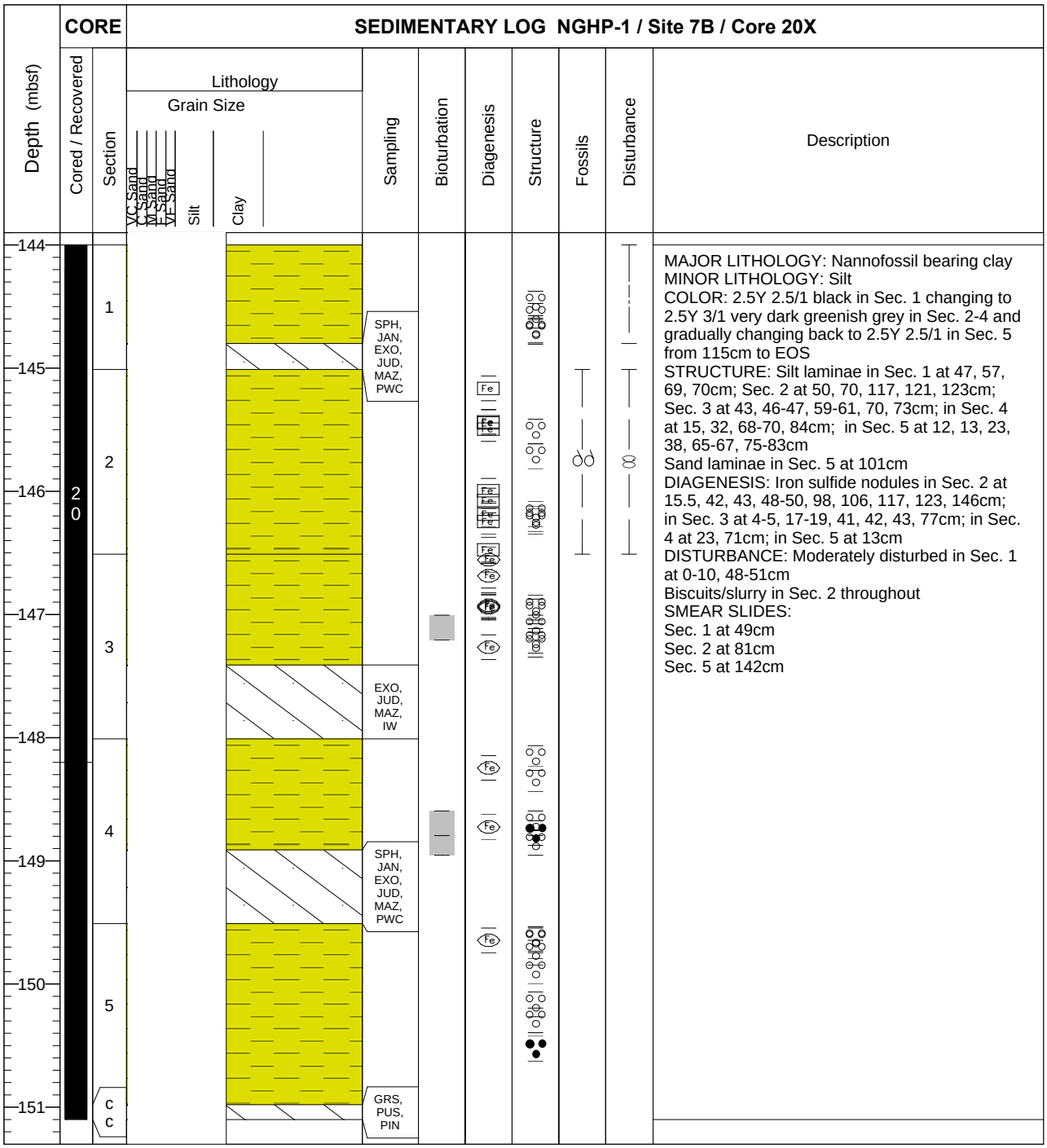

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 15X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
106
107
108
109
110
111
112
113
114
1
2
3
4
5
c
c
15
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Nannofossil bearing clay in Sec. 1-4. Clay in Sec. 5
MINOR LITHOLOGY: Silt
COLOR: 10Y 2.5/1 greenish black
DIAGENESIS: Authigenic carbonate bands in Sec. 3 at 128-129 and Sec. 4 at 43-45
STRUCTURE:
Silt laminae
Sec. 4 at 8-14, 20, 24-27, 32, 45cm
Silt beds
Sec. 1 at 51-56, 62-65, 86-90, 101-102, 115-117, 133cm
Sec. 2 at 63-67, 72-74, 77-78, 81-82, 87cm
Sec. 3 at 33-42, 46, 49-51, 61-63, 65cm
Sec. 5 at 28.5, 31, 47-52cm
Sand beds
Sec. 1 at 10, 22, 34, 37-38, 46, 82cm
Sec. 2 at 28, 48-50, 56cm
Sec. 4 at 67-68cm
Sec. 3 at 12cm
Silty sand
Sec. 2 at 17-22cm
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDES:
Sec. 1 at 97cm
Sec. 4 at 45cm
Sec. 5 at 35cm

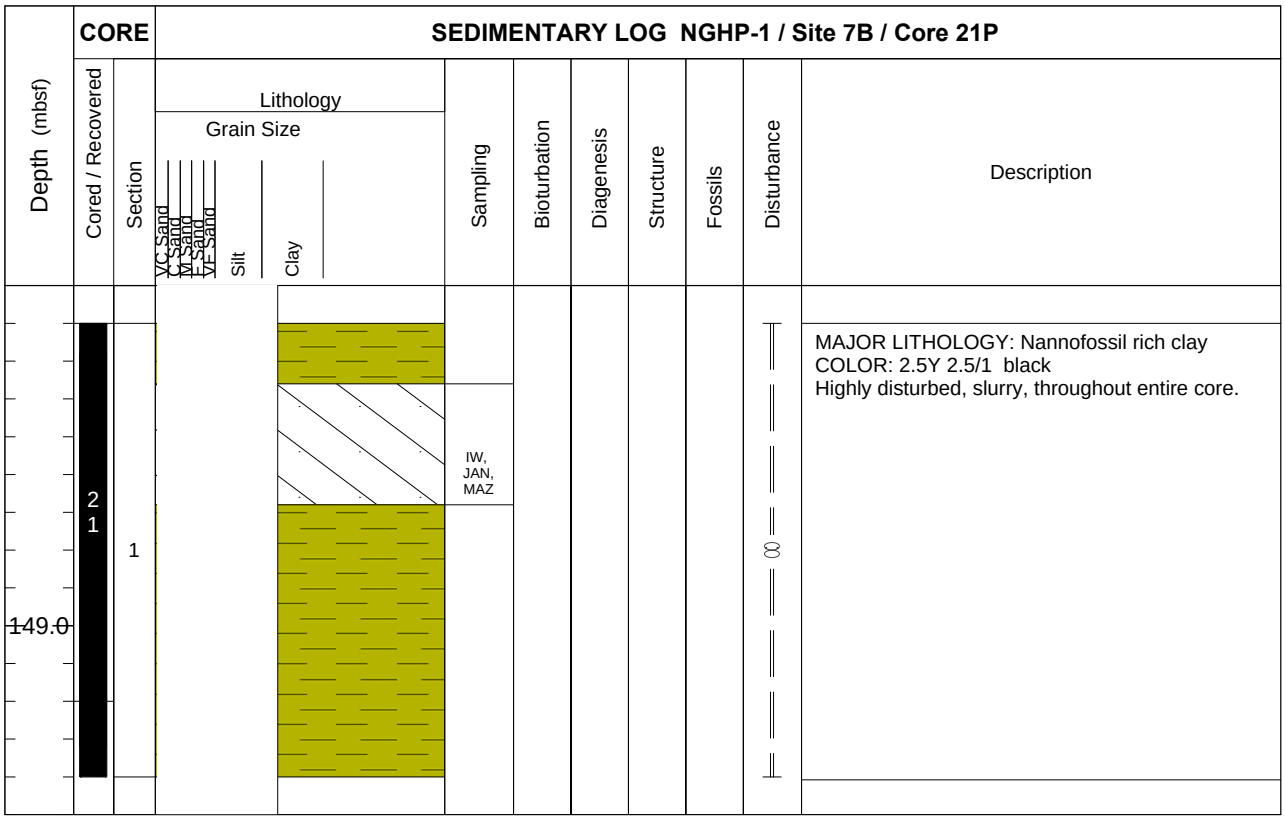

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 16Y
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
115
1
6
1
MAJOR LITHOLOGY: Clay
COLOR: 10Y 2.5/1 greenish black
STRUCTURE:
Sand beds at 18-19, 25cm
Silt laminae at 41-48, 67-76, 80cm
Silty clay at 10-18cm
DISTURBANCE: Moderately disturbed in Sec. 1 at 0-6cm
SMEAR SLIDE:
Sec. 1 at 41cm

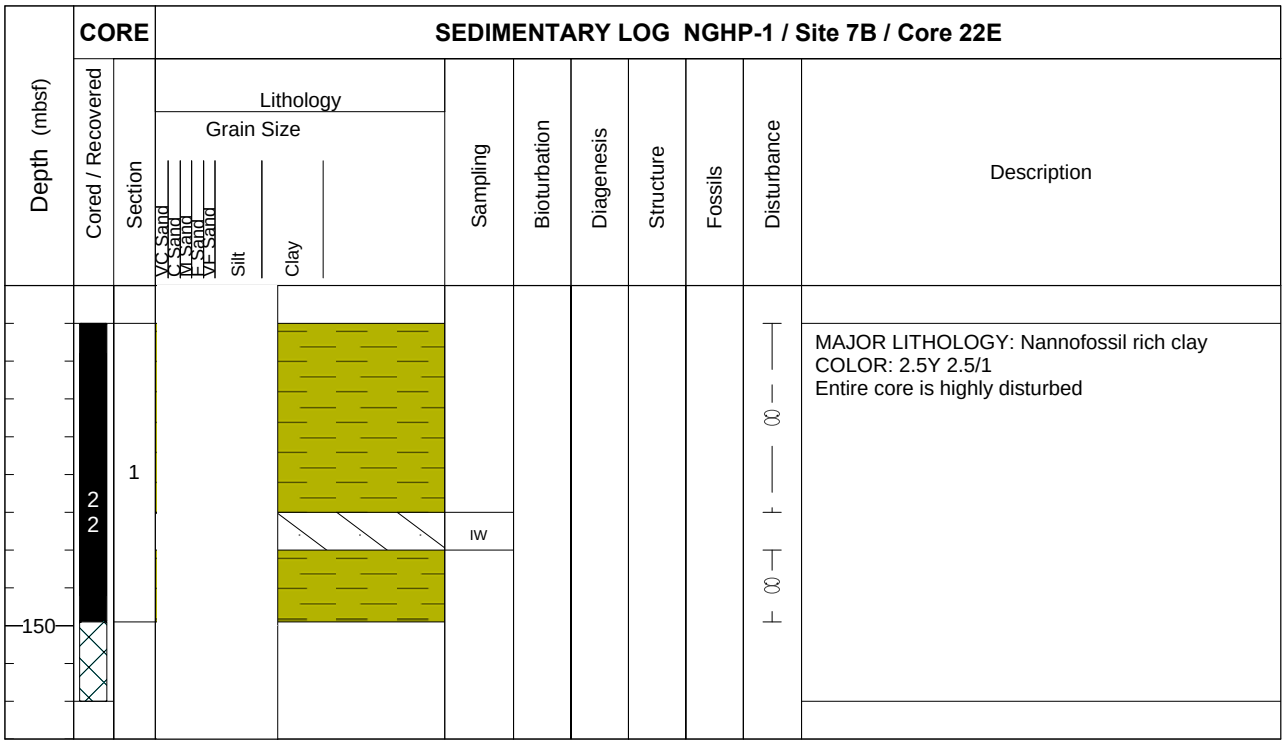

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 17X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
116
117
118
119
120
121
122
123
124
1
2
3
4
5
6
c
c
17
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
MINOR LITHOLOGY: Silt
COLOR: 10Y 2.5/1 greenish black
STRUCTURE:
Silt laminae
Sec. 4 at 81-85
Sec. 5 at 8-11, 20-26, 32-34, 51-56, 63-65cm
Silt beds
Sec. 1 at 105-106cm
Sec. 2 at 12, 33, 55cm
Sec. 4 at 2, 39-40, 57, 110cm
Sec. 5 at 2cm
Sec. 6 at 101cm
Sand beds
Sec. 1 at 92-93cm
Sec. 3 at 23cm
Sec. 6 at 86, 111, 118-120cm
Silty clay
Sec. 1 throughout
Sec. 3 at 37-41cm
Sec. 6 at 57-86cm
Mottled clay in Sec. 4 at 137-150cm
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDE:
Sec. 1 at 76cm
Sec. 3 at 22.5cm
Sec. 4 at 32cm

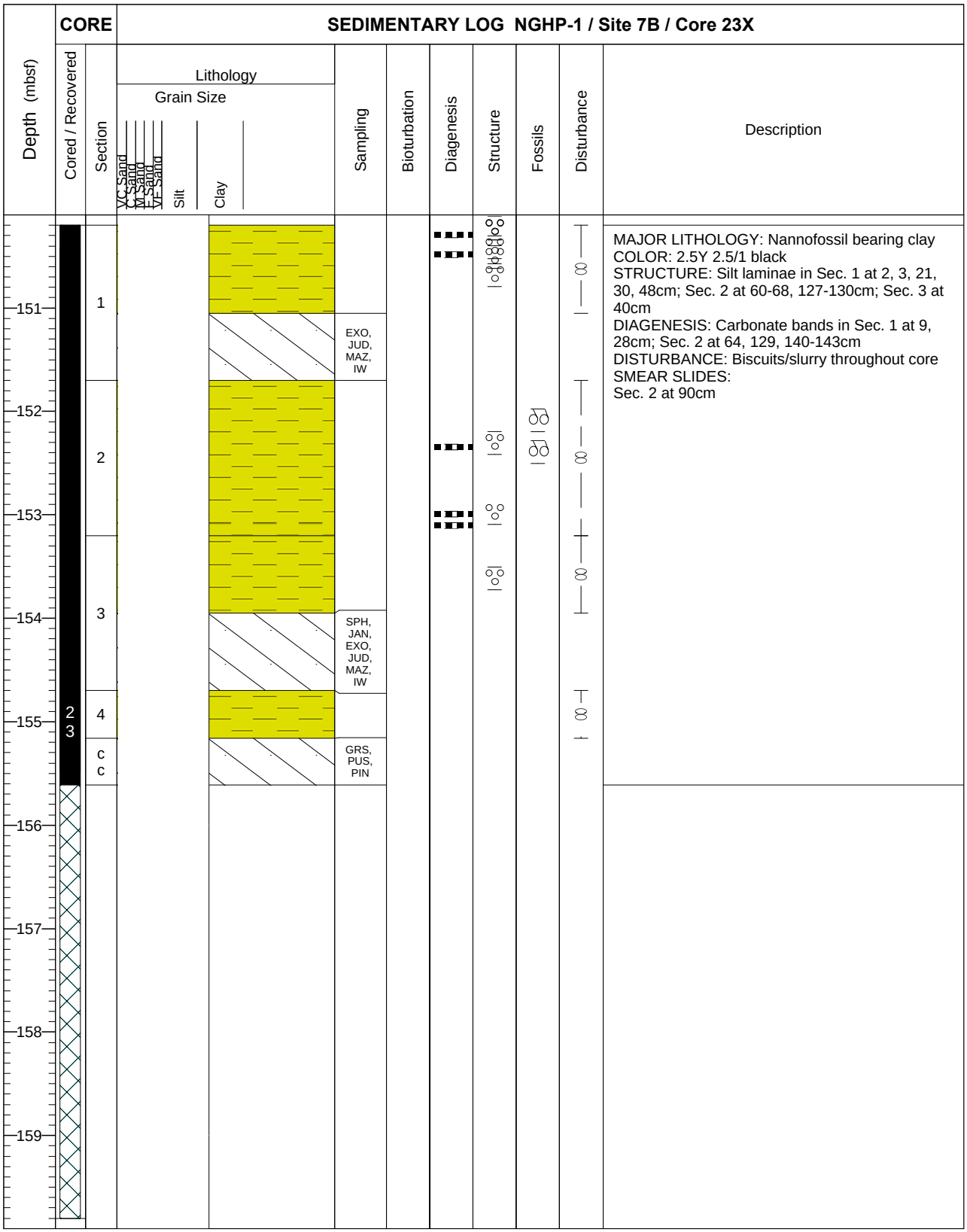

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 18X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
125
126
127
128
129
130
131
132
133
134
1
2
3
4
CC
18
EXO, JUD, MAZ, IW
SPH, EXO, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
MINOR LITHOLOGY: Silt
COLOR:
5Y 2.5/1 black in Sec. 1
5Y 3/1 very dark grey in Sec. 2-4
STRUCTURE:
Silt laminae
Sec. 1 at 19, 24, 31, 47-54, 63, 66, 73, 100-104, 114-121cm
Sec. 2 at 62, 65, 74, 77-79, 97cm
Sec. 3 at 12-14, 29, 42-44, 47, 67, 69, 73, 96, 106-108cm
Sec. 4 at 9, 14.5, 19, 25-35, 39, 44-66, 76, 86-89, 95-97, 107, 113, 117, 130-133, 136-137cm
Silt beds
Sec. 1 at 87-88cm
Sec. 2 at 47-50cm
Sec. 3 at 18, 55-58, 77, 84cm
Sec. 4 at 6, 17.5, 74, 84cm
DISTURBANCE: Biscuits/slurry throughout core
Gas expansion cracks in Sec. 1 at 31, 39, 72-74, 114, 121cm
Very disturbed in Sec. 1 at 0-25cm
SMEAR SLIDES:
Sec. 1 at 58cm
Sec. 2 at 83cm

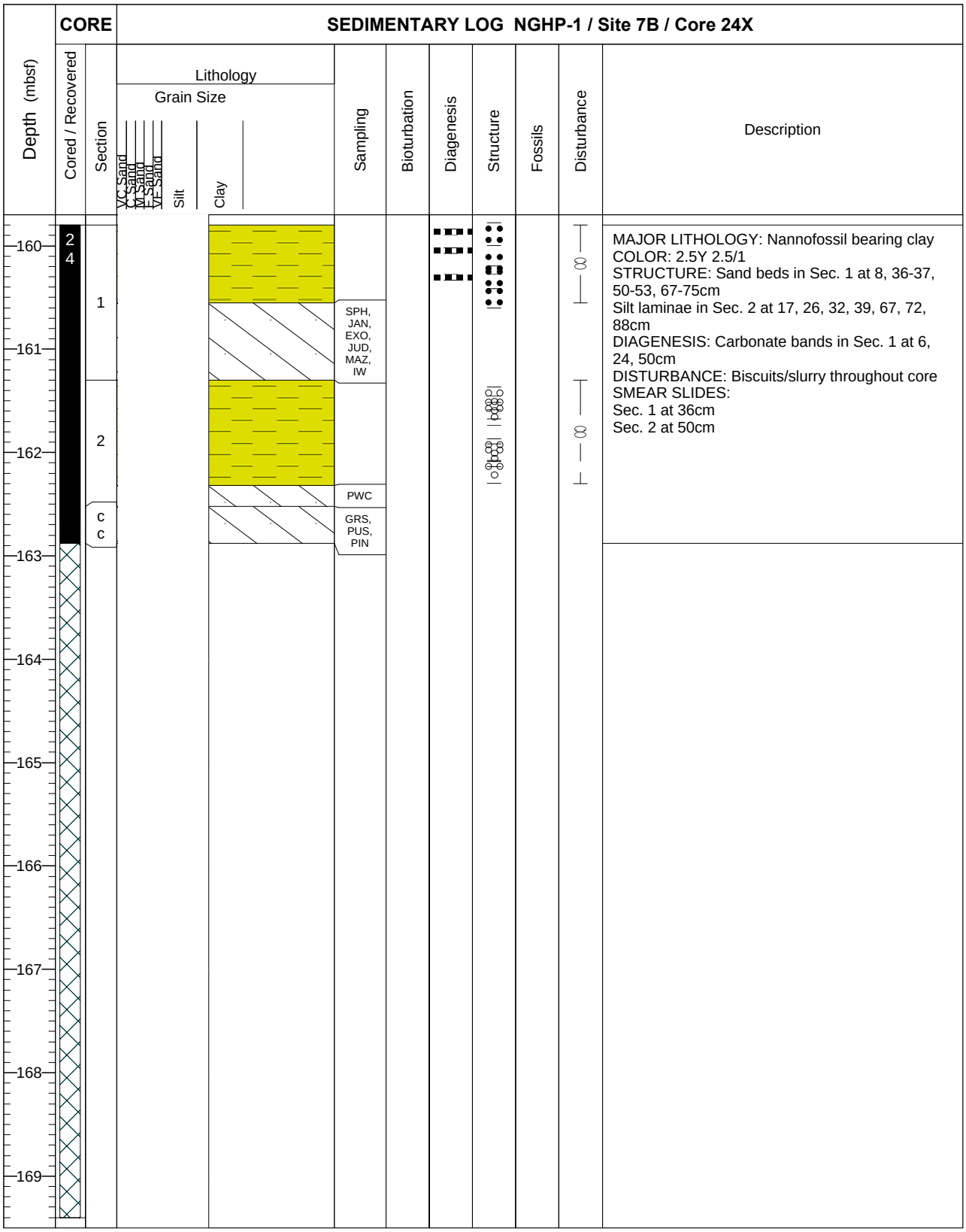

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 19X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
19
135
136
137
138
139
140
141
142
143
144
1
2
3
4
C
C
SPH, JAN, EXO, JUD, MAR, GRS, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Clay
MINOR LITHOLOGY: Silty Clay
COLOR:
5Y 2.5/1 black
STRUCTURE:
Silt laminae
Sec. 1 at 26-27, 86, 137cm
Sec. 3 at 3-5, 42-43, 63-64cm
Sec. 4 at 25cm
DISTURBANCE: Biscuits/slurry throughout core
Gas expansion cracks in Sec. 2 at 50, 54, 62, 65, 75cm
Slurry in Sec. 2 at 16-18, 35-36cm
SMEAR SLIDES:
Sec. 1 at 99cm
Sec. 1 at 115cm
Sec. 3 at 57cm

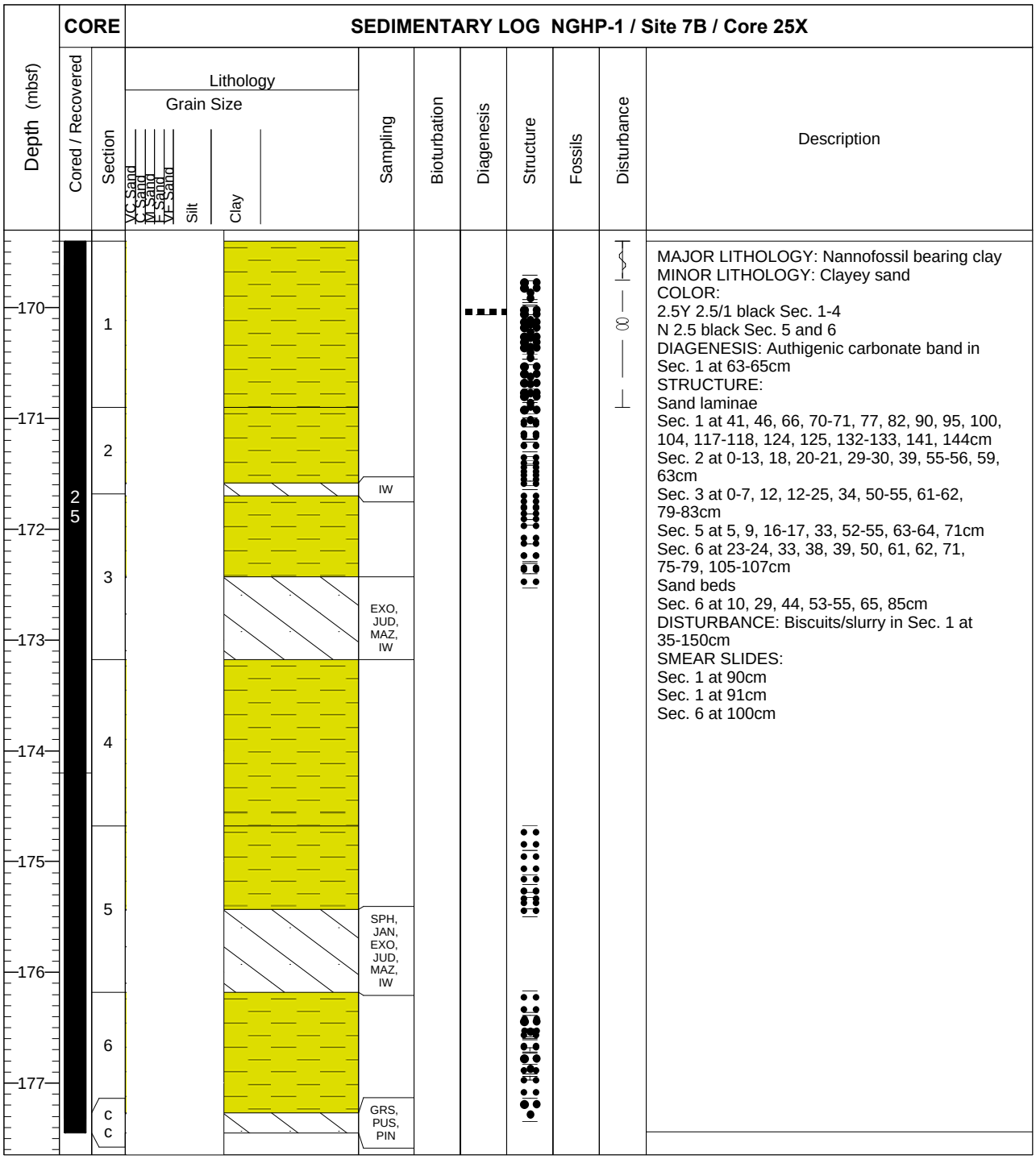

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 20X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
144
145
146
147
148
149
150
151
20
1
2
3
4
5
CC
SPH, JAN, EXO, JUD, MAZ, PWC
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, PWC
GRS, PUS, PIN
Fe
MAJOR LITHOLOGY: Nannofossil bearing clay
MINOR LITHOLOGY: Silt
COLOR: 2.5Y 2.5/1 black in Sec. 1 changing to 2.5Y 3/1 very dark greenish grey in Sec. 2-4 and gradually changing back to 2.5Y 2.5/1 in Sec. 5 from 115cm to EOS
STRUCTURE: Silt laminae in Sec. 1 at 47, 57, 69, 70cm; Sec. 2 at 50, 70, 117, 121, 123cm; Sec. 3 at 43, 46-47, 59-61, 70, 73cm; in Sec. 4 at 15, 32, 68-70, 84cm; in Sec. 5 at 12, 13, 23, 38, 65-67, 75-83cm
Sand laminae in Sec. 5 at 101cm
DIAGENESIS: Iron sulfide nodules in Sec. 2 at 15.5, 42, 43, 48-50, 98, 106, 117, 123, 146cm; in Sec. 3 at 4-5, 17-19, 41, 42, 43, 77cm; in Sec. 4 at 23, 71cm; in Sec. 5 at 13cm
DISTURBANCE: Moderately disturbed in Sec. 1 at 0-10, 48-51cm
Biscuits/slurry in Sec. 2 throughout
SMEAR SLIDES:
Sec. 1 at 49cm
Sec. 2 at 81cm
Sec. 5 at 142cm

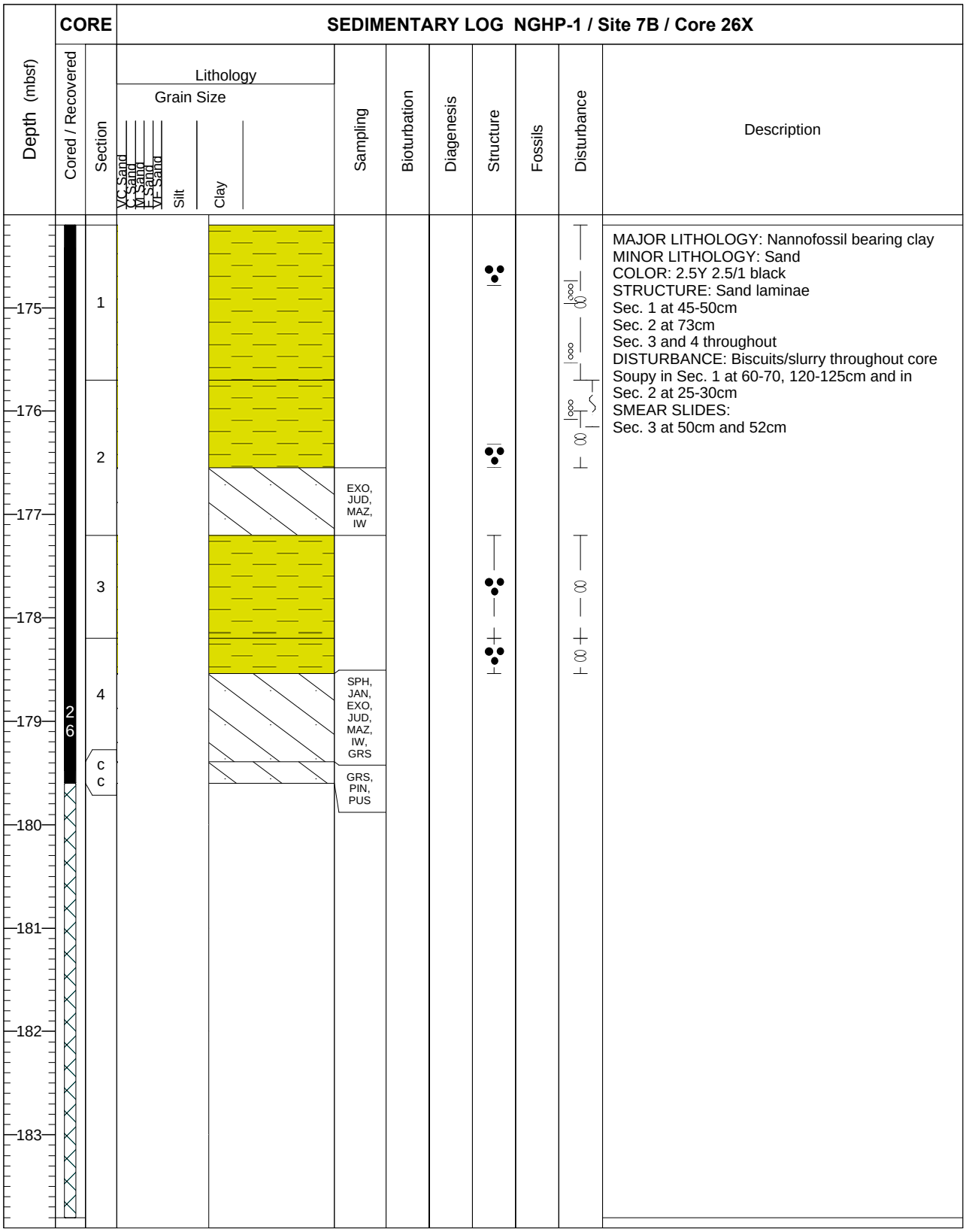

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 21P
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
149.0
2
1
1
IW,
JAN,
MAZ
MAJOR LITHOLOGY: Nannofossil rich clay
COLOR: 2.5Y 2.5/1 black
Highly disturbed, slurry, throughout entire core.

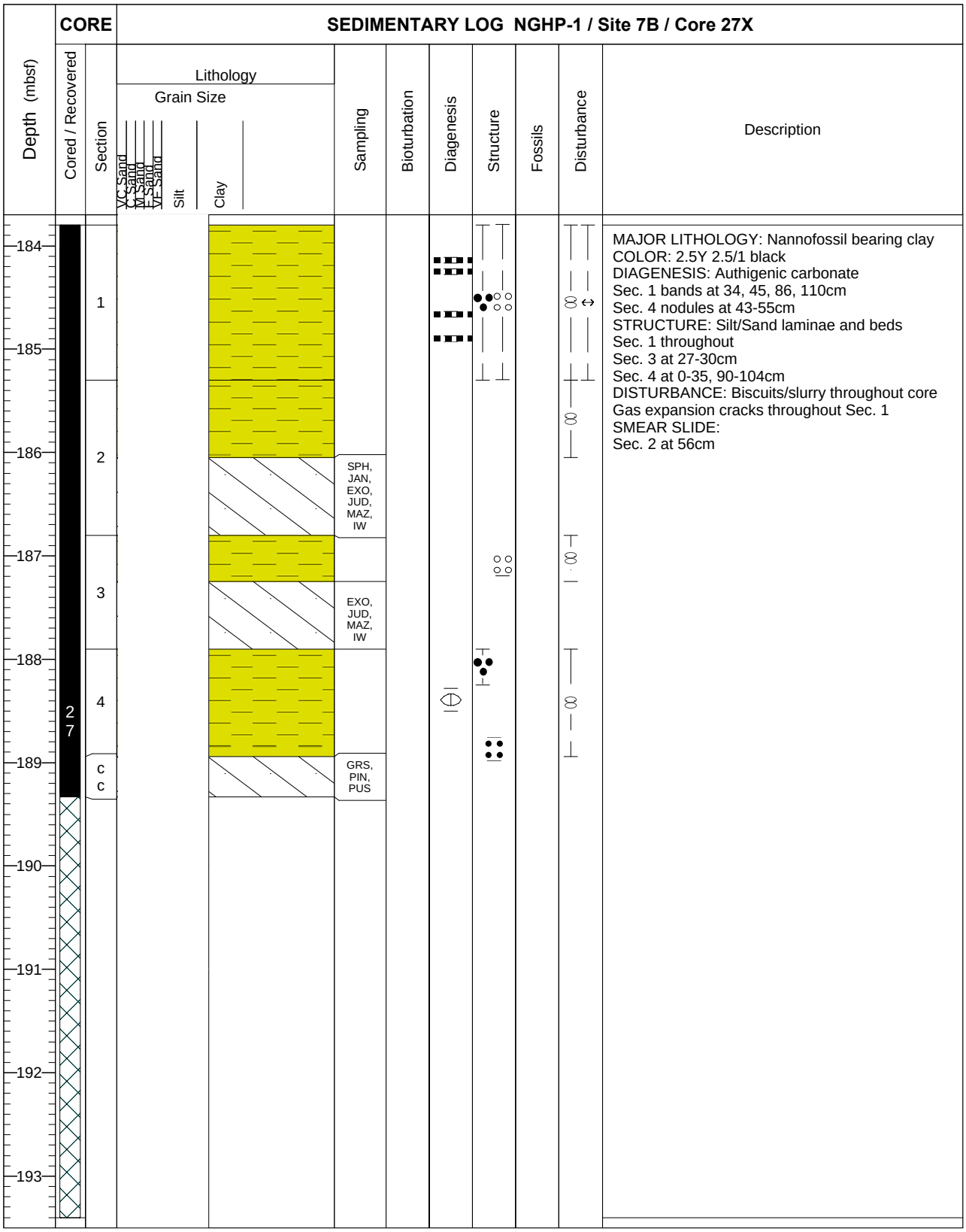

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 22E
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
150
2
2
1
IW
MAJOR LITHOLOGY: Nannofossil rich clay
COLOR: 2.5Y 2.5/1
Entire core is highly disturbed

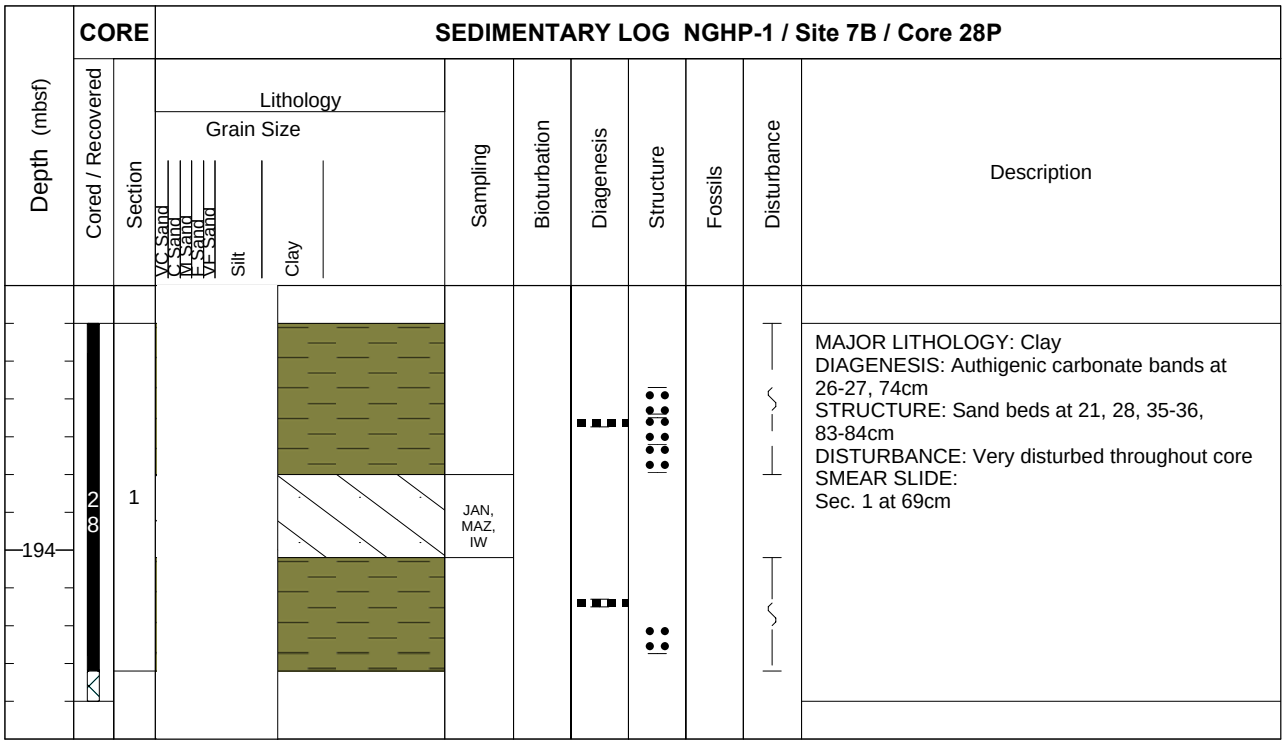

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 23X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
151
152
153
154
155
156
157
158
159
23
1
2
3
4
cc
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 2.5Y 2.5/1 black
STRUCTURE: Silt laminae in Sec. 1 at 2, 3, 21, 30, 48cm; Sec. 2 at 60-68, 127-130cm; Sec. 3 at 40cm
DIAGENESIS: Carbonate bands in Sec. 1 at 9, 28cm; Sec. 2 at 64, 129, 140-143cm
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDES:
Sec. 2 at 90cm

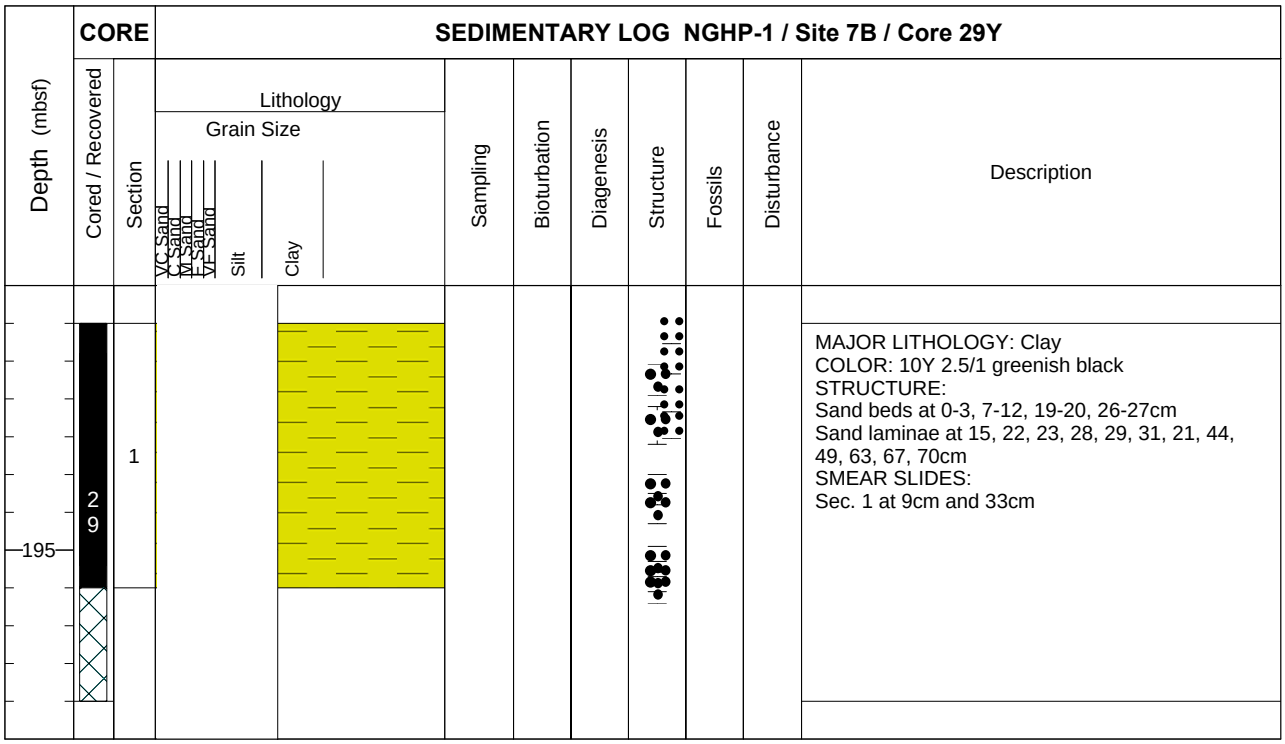

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 24X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
160
161
162
163
164
165
166
167
168
169
24
1
2
CC
SPH, JAN, EXO, JUD, MAZ, IW
PWC
GRS, PUS, PIN
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 2.5Y 2.5/1
STRUCTURE: Sand beds in Sec. 1 at 8, 36-37, 50-53, 67-75cm
Silt laminae in Sec. 2 at 17, 26, 32, 39, 67, 72, 88cm
DIAGENESIS: Carbonate bands in Sec. 1 at 6, 24, 50cm
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDES:
Sec. 1 at 36cm
Sec. 2 at 50cm

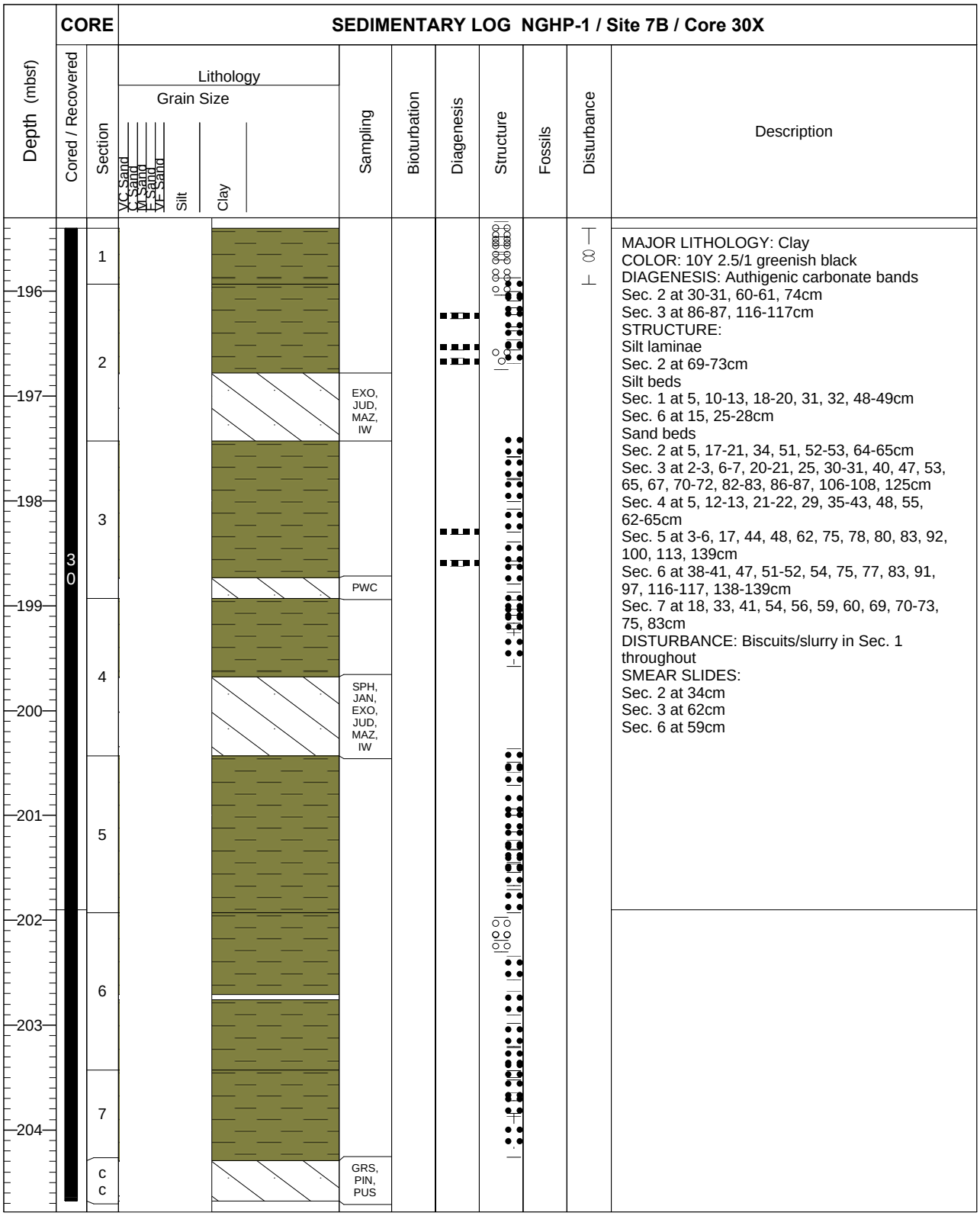

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 25X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
170
171
172
173
174
175
176
177
25
1
2
3
4
5
6
c
c
IW
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Nannofossil bearing clay
MINOR LITHOLOGY: Clayey sand
COLOR:
2.5Y 2.5/1 black Sec. 1-4
N 2.5 black Sec. 5 and 6
DIAGENESIS: Authigenic carbonate band in Sec. 1 at 63-65cm
STRUCTURE:
Sand laminae
Sec. 1 at 41, 46, 66, 70-71, 77, 82, 90, 95, 100, 104, 117-118, 124, 125, 132-133, 141, 144cm
Sec. 2 at 0-13, 18, 20-21, 29-30, 39, 55-56, 59, 63cm
Sec. 3 at 0-7, 12, 12-25, 34, 50-55, 61-62, 79-83cm
Sec. 5 at 5, 9, 16-17, 33, 52-55, 63-64, 71cm
Sec. 6 at 23-24, 33, 38, 39, 50, 61, 62, 71, 75-79, 105-107cm
Sand beds
Sec. 6 at 10, 29, 44, 53-55, 65, 85cm
DISTURBANCE: Biscuits/slurry in Sec. 1 at 35-150cm
SMEAR SLIDES:
Sec. 1 at 90cm
Sec. 1 at 91cm
Sec. 6 at 100cm

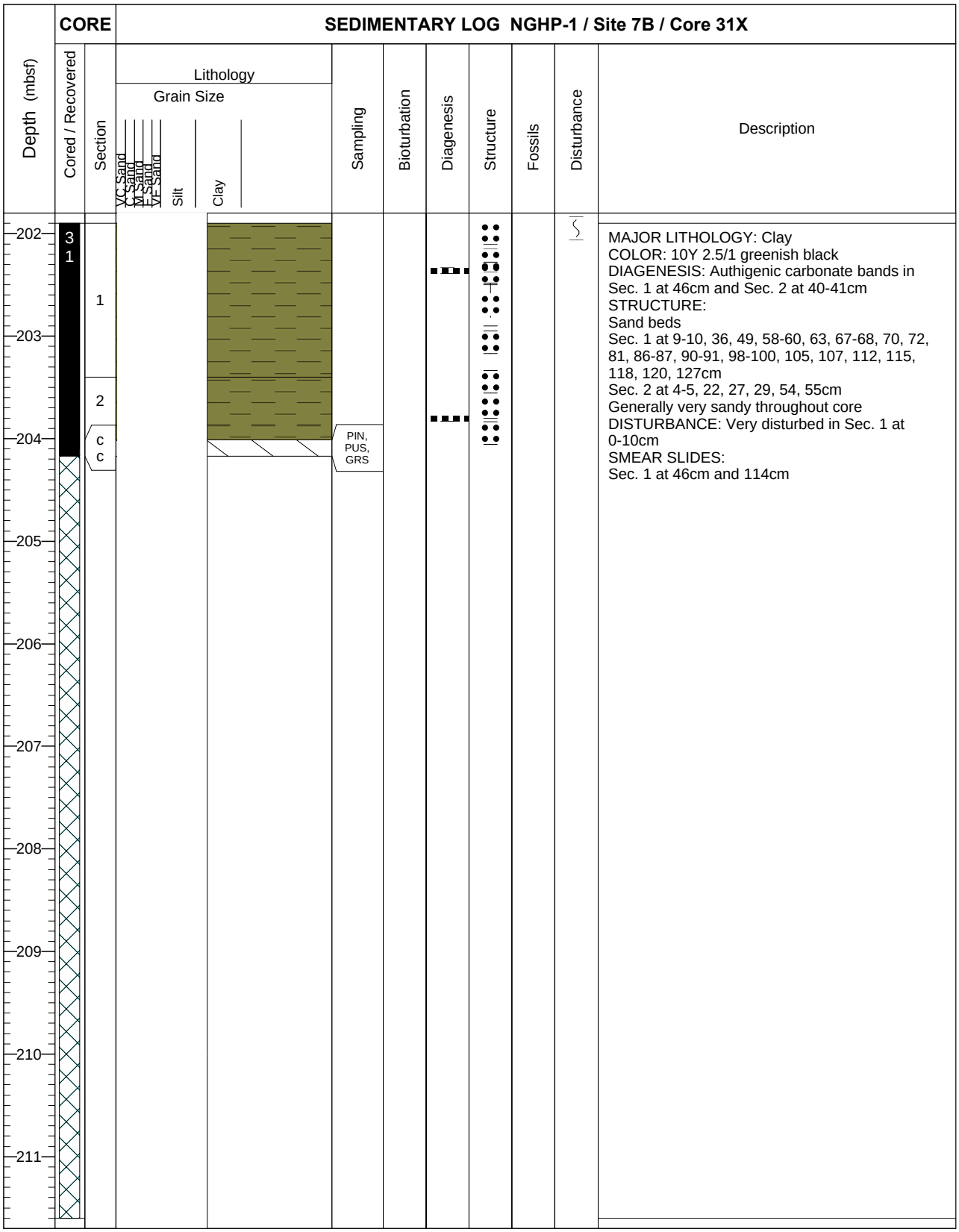

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 26X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
175
176
177
178
179
180
181
182
183
26
1
2
3
4
c
c
EXO, JUD, MAZ, IW
SPH, JAN, EXO, JUD, MAZ, IW, GRS
GRS, PIN, PUS
MAJOR LITHOLOGY: Nannofossil bearing clay
MINOR LITHOLOGY: Sand
COLOR: 2.5Y 2.5/1 black
STRUCTURE: Sand laminae
Sec. 1 at 45-50cm
Sec. 2 at 73cm
Sec. 3 and 4 throughout
DISTURBANCE: Biscuits/slurry throughout core
Soupy in Sec. 1 at 60-70, 120-125cm and in
Sec. 2 at 25-30cm
SMEAR SLIDES:
Sec. 3 at 50cm and 52cm

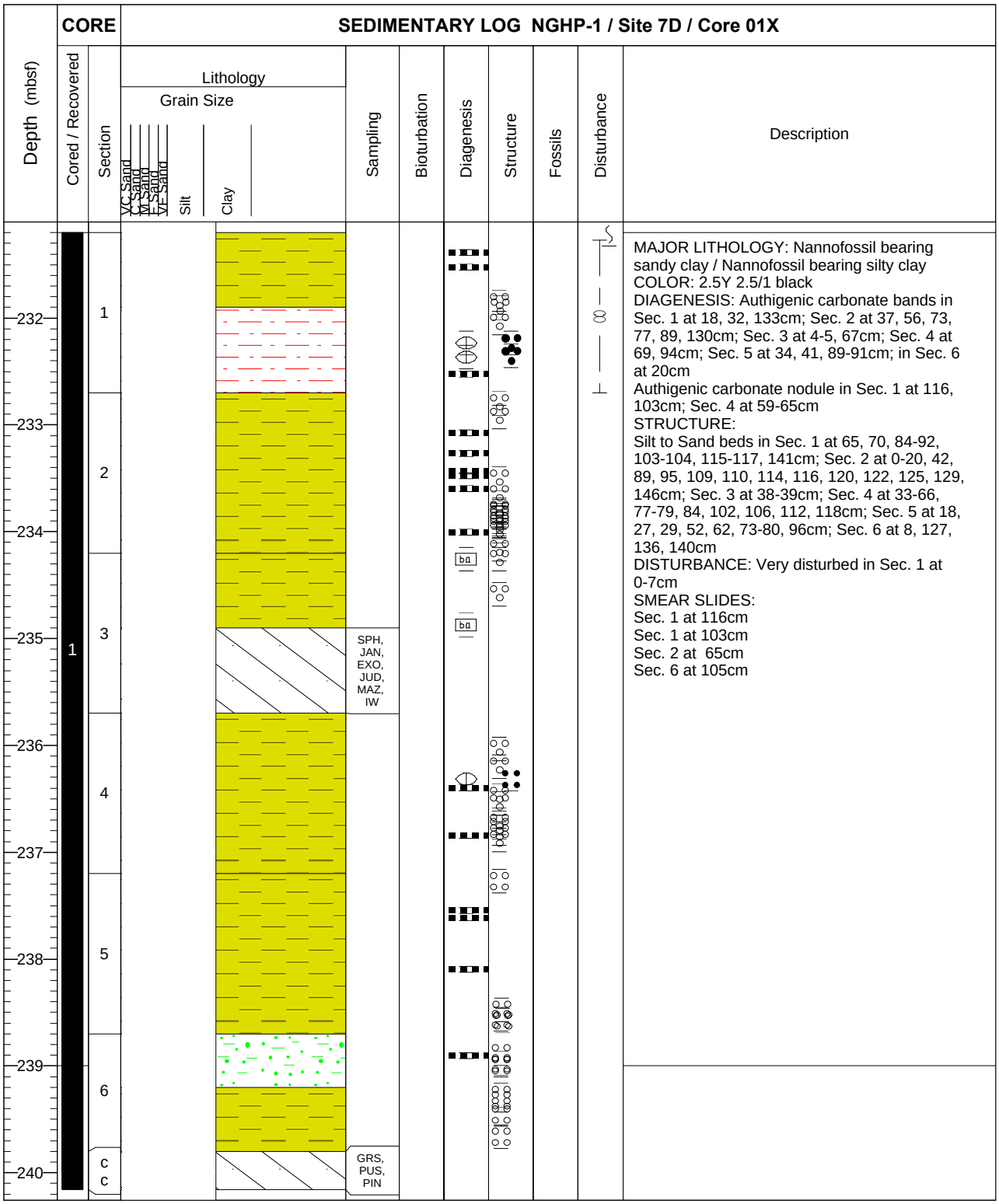

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 27X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
184
185
186
187
188
189
190
191
192
193
1
2
3
4
c
c
27
SPH, JAN, EXO, JUD, MAZ, IW
EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 2.5Y 2.5/1 black
DIAGENESIS: Authigenic carbonate
Sec. 1 bands at 34, 45, 86, 110cm
Sec. 4 nodules at 43-55cm
STRUCTURE: Silt/Sand laminae and beds
Sec. 1 throughout
Sec. 3 at 27-30cm
Sec. 4 at 0-35, 90-104cm
DISTURBANCE: Biscuits/slurry throughout core
Gas expansion cracks throughout Sec. 1
SMEAR SLIDE:
Sec. 2 at 56cm

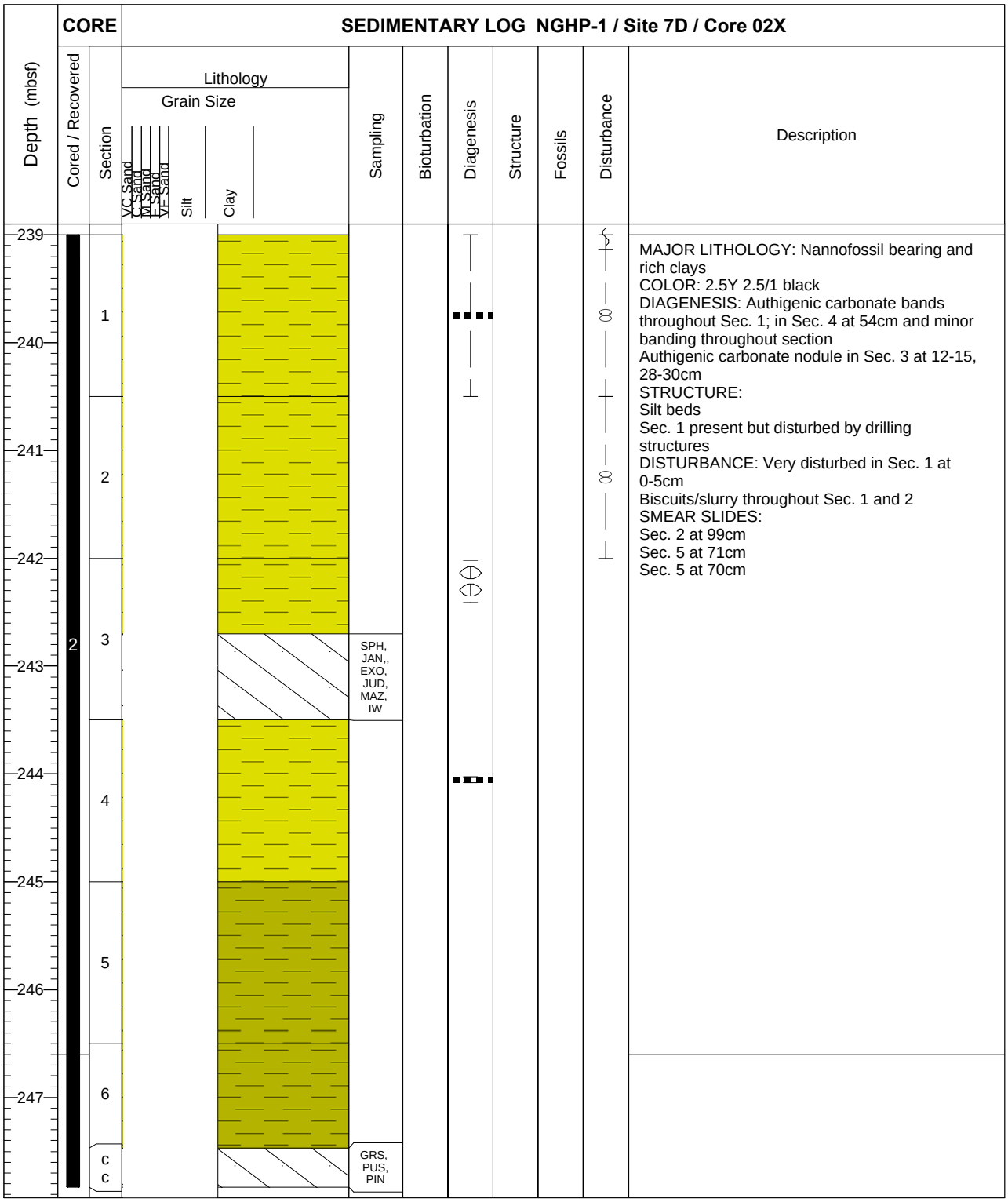

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 28P
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
194
2
8
1
JAN, MAZ, IW
MAJOR LITHOLOGY: Clay
DIAGENESIS: Authigenic carbonate bands at 26-27, 74cm
STRUCTURE: Sand beds at 21, 28, 35-36, 83-84cm
DISTURBANCE: Very disturbed throughout core
SMEAR SLIDE:
Sec. 1 at 69cm

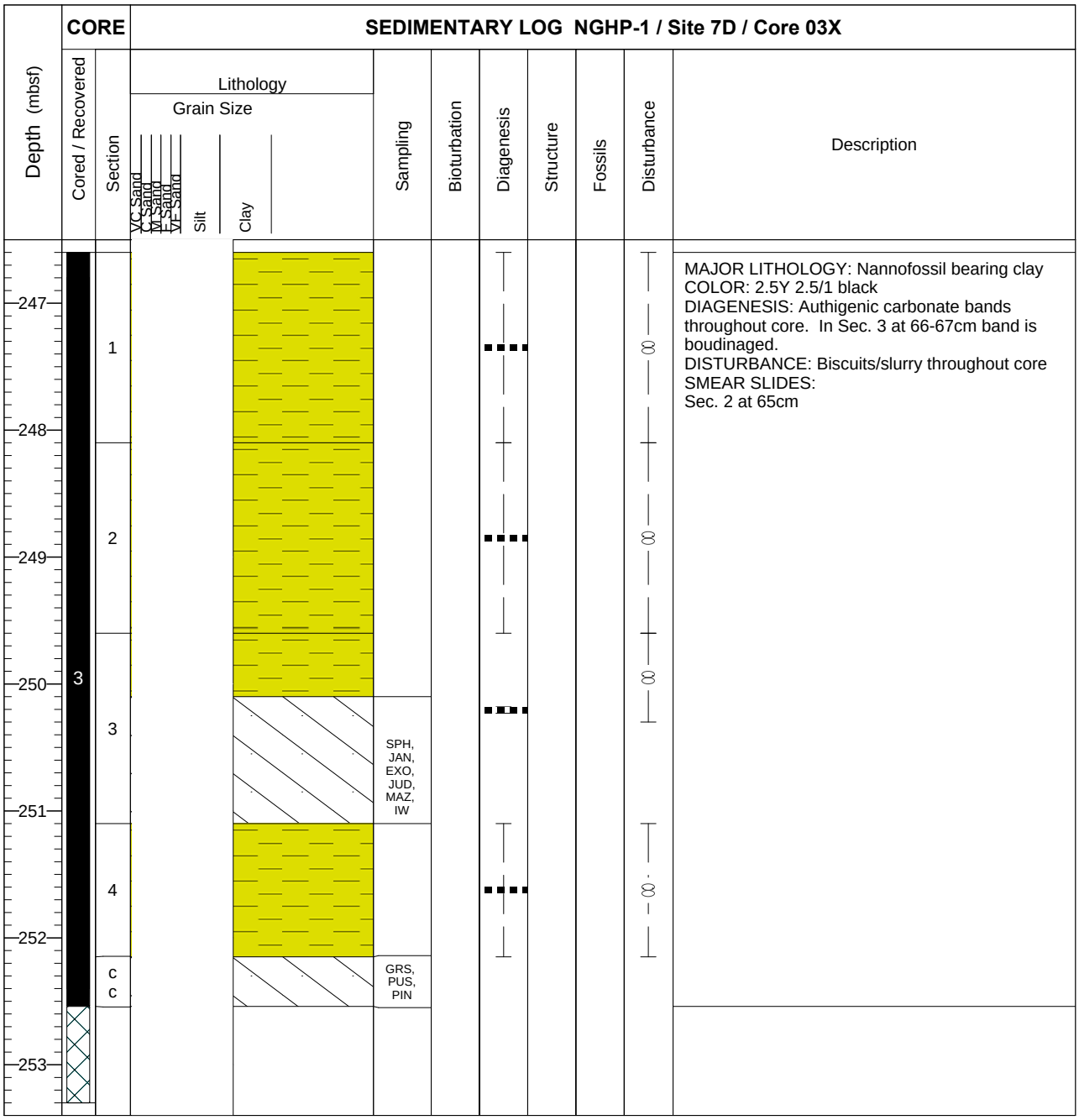

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 29Y
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
195
29
1
MAJOR LITHOLOGY: Clay
COLOR: 10Y 2.5/1 greenish black
STRUCTURE:
Sand beds at 0-3, 7-12, 19-20, 26-27cm
Sand laminae at 15, 22, 23, 28, 29, 31, 21, 44, 49, 63, 67, 70cm
SMEAR SLIDES:
Sec. 1 at 9cm and 33cm

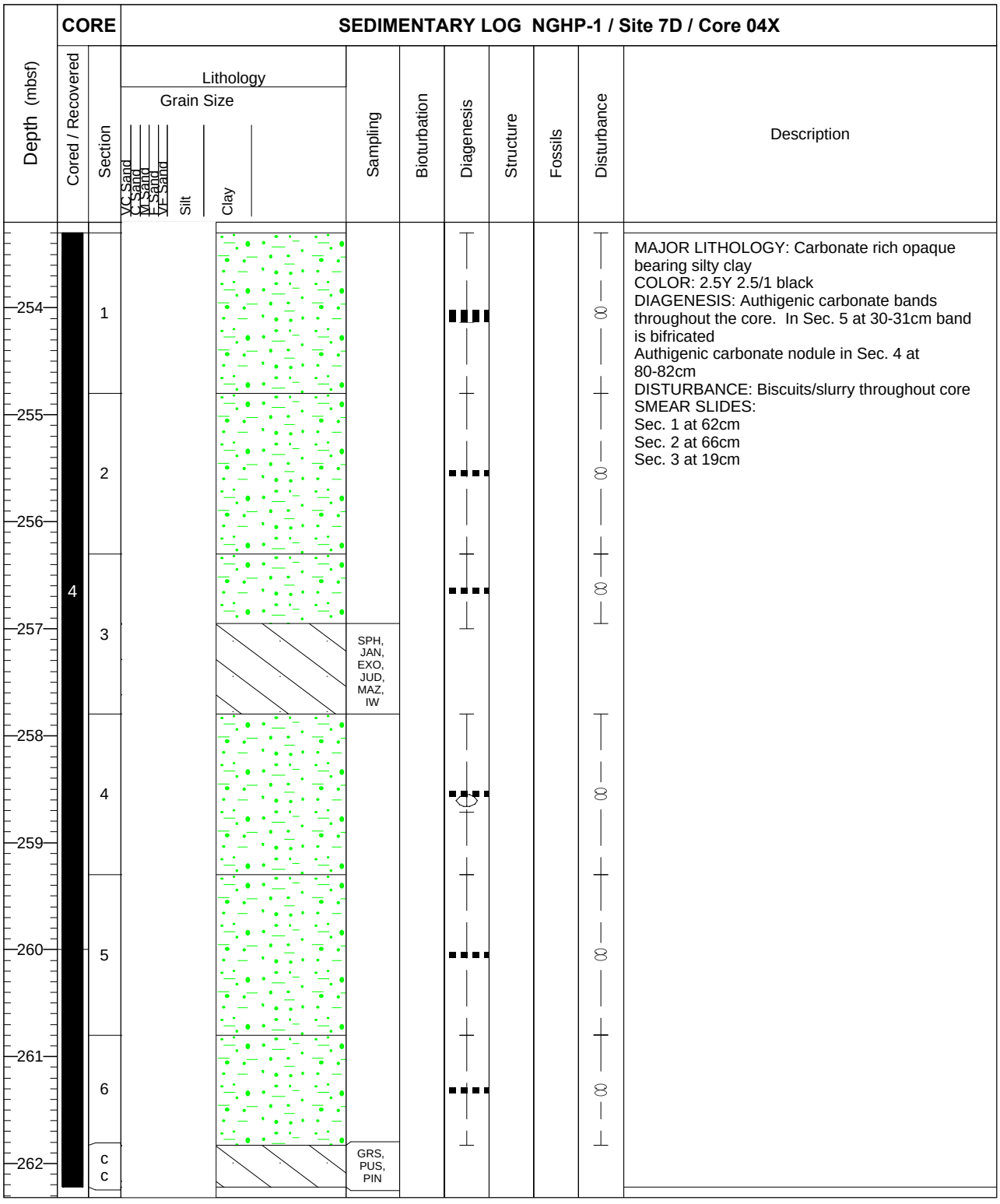

CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 30X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
196
197
198
199
200
201
202
203
204
30
1
2
3
4
5
6
7
CC
EXO, JUD, MAZ, IW
PWC
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PIN, PUS
MAJOR LITHOLOGY: Clay
COLOR: 10Y 2.5/1 greenish black
DIAGENESIS: Authigenic carbonate bands
Sec. 2 at 30-31, 60-61, 74cm
Sec. 3 at 86-87, 116-117cm
STRUCTURE:
Silt laminae
Sec. 2 at 69-73cm
Silt beds
Sec. 1 at 5, 10-13, 18-20, 31, 32, 48-49cm
Sec. 6 at 15, 25-28cm
Sand beds
Sec. 2 at 5, 17-21, 34, 51, 52-53, 64-65cm
Sec. 3 at 2-3, 6-7, 20-21, 25, 30-31, 40, 47, 53, 65, 67, 70-72, 82-83, 86-87, 106-108, 125cm
Sec. 4 at 5, 12-13, 21-22, 29, 35-43, 48, 55, 62-65cm
Sec. 5 at 3-6, 17, 44, 48, 62, 75, 78, 80, 83, 92, 100, 113, 139cm
Sec. 6 at 38-41, 47, 51-52, 54, 75, 77, 83, 91, 97, 116-117, 138-139cm
Sec. 7 at 18, 33, 41, 54, 56, 59, 60, 69, 70-73, 75, 83cm
DISTURBANCE: Biscuits/slurry in Sec. 1 throughout
SMEAR SLIDES:
Sec. 2 at 34cm
Sec. 3 at 62cm
Sec. 6 at 59cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7B / Core 31X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
202
203
204
205
206
207
208
209
210
211
3
1
1
2
c
c
PIN, PUS, GRS
MAJOR LITHOLOGY: Clay
COLOR: 10Y 2.5/1 greenish black
DIAGENESIS: Authigenic carbonate bands in Sec. 1 at 46cm and Sec. 2 at 40-41cm
STRUCTURE:
Sand beds
Sec. 1 at 9-10, 36, 49, 58-60, 63, 67-68, 70, 72, 81, 86-87, 90-91, 98-100, 105, 107, 112, 115, 118, 120, 127cm
Sec. 2 at 4-5, 22, 27, 29, 54, 55cm
Generally very sandy throughout core
DISTURBANCE: Very disturbed in Sec. 1 at 0-10cm
SMEAR SLIDES:
Sec. 1 at 46cm and 114cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7D / Core 01X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
232
233
234
235
236
237
238
239
240
1
2
3
4
5
6
CC
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
ba
ba
MAJOR LITHOLOGY: Nannofossil bearing sandy clay / Nannofossil bearing silty clay
COLOR: 2.5Y 2.5/1 black
DIAGENESIS: Authigenic carbonate bands in Sec. 1 at 18, 32, 133cm; Sec. 2 at 37, 56, 73, 77, 89, 130cm; Sec. 3 at 4-5, 67cm; Sec. 4 at 69, 94cm; Sec. 5 at 34, 41, 89-91cm; in Sec. 6 at 20cm
Authigenic carbonate nodule in Sec. 1 at 116, 103cm; Sec. 4 at 59-65cm
STRUCTURE:
Silt to Sand beds in Sec. 1 at 65, 70, 84-92, 103-104, 115-117, 141cm; Sec. 2 at 0-20, 42, 89, 95, 109, 110, 114, 116, 120, 122, 125, 129, 146cm; Sec. 3 at 38-39cm; Sec. 4 at 33-66, 77-79, 84, 102, 106, 112, 118cm; Sec. 5 at 18, 27, 29, 52, 62, 73-80, 96cm; Sec. 6 at 8, 127, 136, 140cm
DISTURBANCE: Very disturbed in Sec. 1 at 0-7cm
SMEAR SLIDES:
Sec. 1 at 116cm
Sec. 1 at 103cm
Sec. 2 at 65cm
Sec. 6 at 105cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7D / Core 02X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
239
240
241
242
243
244
245
246
247
1
2
3
4
5
6
c
c
2
SPH, JAN,, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Nannofossil bearing and rich clays
COLOR: 2.5Y 2.5/1 black
DIAGENESIS: Authigenic carbonate bands throughout Sec. 1; in Sec. 4 at 54cm and minor banding throughout section
Authigenic carbonate nodule in Sec. 3 at 12-15, 28-30cm
STRUCTURE:
Silt beds
Sec. 1 present but disturbed by drilling structures
DISTURBANCE: Very disturbed in Sec. 1 at 0-5cm
Biscuits/slurry throughout Sec. 1 and 2
SMEAR SLIDES:
Sec. 2 at 99cm
Sec. 5 at 71cm
Sec. 5 at 70cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7D / Core 03X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
247
248
249
250
251
252
253
3
1
2
3
4
c
c
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Nannofossil bearing clay
COLOR: 2.5Y 2.5/1 black
DIAGENESIS: Authigenic carbonate bands throughout core. In Sec. 3 at 66-67cm band is boudinaged.
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDES:
Sec. 2 at 65cm


CORE
SEDIMENTARY LOG NGHP-1 / Site 7D / Core 04X
Depth (mbsf)
Cored / Recovered
Section
Lithology
Grain Size
VC Sand
C Sand
M Sand
F Sand
VF Sand
Silt
Clay
Sampling
Bioturbation
Diagenesis
Structure
Fossils
Disturbance
Description
254
255
256
257
258
259
260
261
262
1
2
3
4
5
6
CC
4
SPH, JAN, EXO, JUD, MAZ, IW
GRS, PUS, PIN
MAJOR LITHOLOGY: Carbonate rich opaque bearing silty clay
COLOR: 2.5Y 2.5/1 black
DIAGENESIS: Authigenic carbonate bands throughout the core. In Sec. 5 at 30-31cm band is bifricated
Authigenic carbonate nodule in Sec. 4 at 80-82cm
DISTURBANCE: Biscuits/slurry throughout core
SMEAR SLIDES:
Sec. 1 at 62cm
Sec. 2 at 66cm
Sec. 3 at 19cm