



**NGHP Expedition 1**  
**Cored Interval Site 3 - Hole B**  
Seafloor 1085.1 (m)


**Barrel Sheet Key**


**Cored & Recovered:**


 Core Recovery


 Cored Interval No Recovery

**Lithology:**


 Nannofossil Rich Clay


 Nannofossil Bearing Clay


 Foraminifera Bearing Clay

 Catwalk Sampled Core


**Bioturbation:**


 Rare


 Moderate


 Abundant


**Diagenesis:**


 Pyrite

 FeS


 FeS Nodule


 Authigenic Carbonate


 Carbonate Cement

 Carbonate Bands


**Structures:**


 Silt/Sand Beds


 Silt/Sand Laminae

 Planar Lamination


**Fossils:**


 Shell Fragments


 Foraminifera


 Gastropod

**Disturbance:**

 Expansion Cracks

 Moderately Disturbed


 Very Disturbed


 Biscuit & Slurry

**NGHP Expedition 1**  
**Cored Interval Site 3 - Hole C**  
Seafloor 1086 (m)


**Barrel Sheet Key**


**Cored & Recovered:**


 Core Recovery


 Cored Interval No Recovery

**Lithology:**


 Nannofossil Rich Clay


 Nannofossil Bearing Clay


 Foraminifera Bearing Clay

 Catwalk Sampled Core


**Structures:**


 Silt/Sand Beds


 Silt/Sand Laminae

 Planar Lamination


**Fossils:**


 Shell Fragments


 Foraminifera

 Mollusk

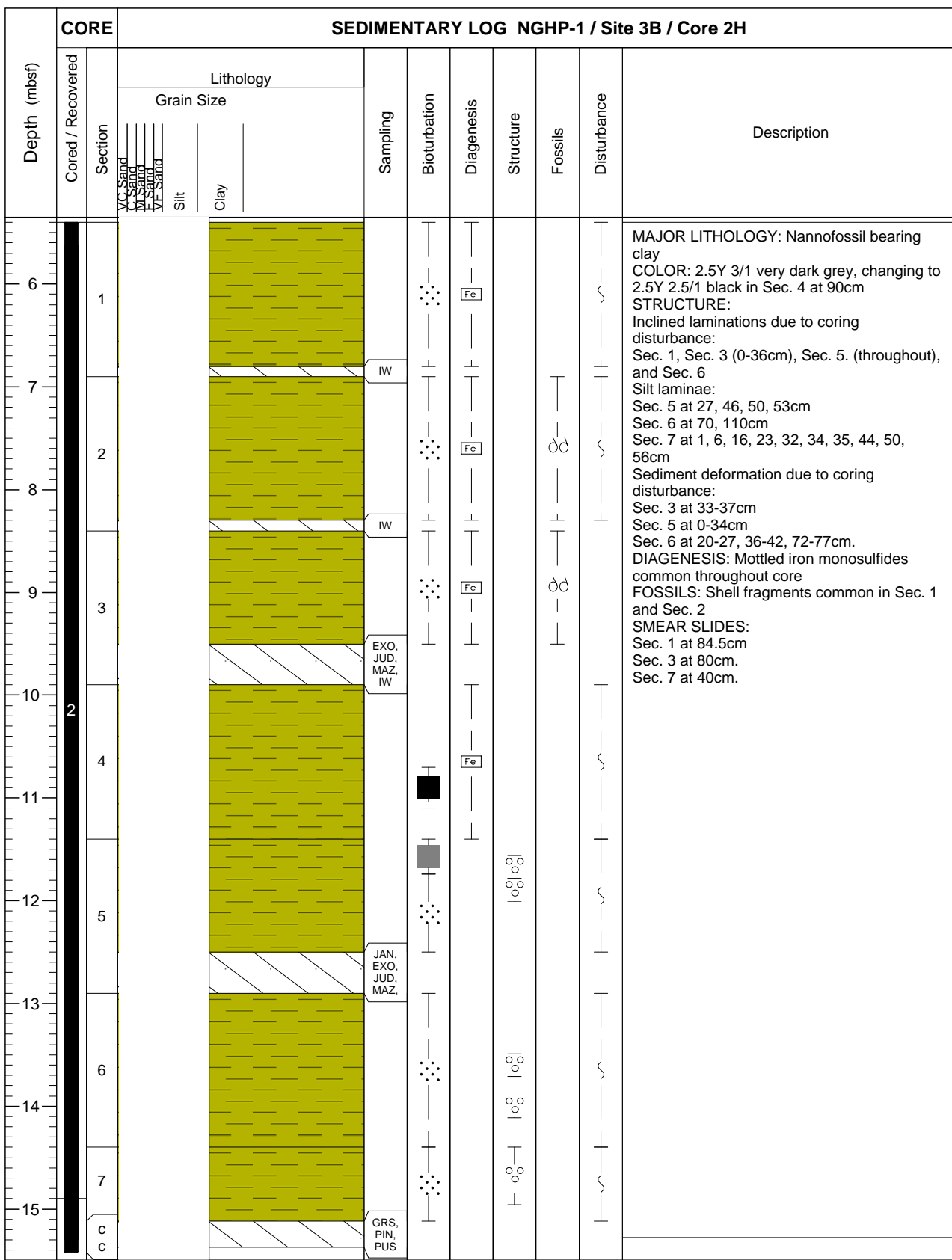
**Disturbance:**

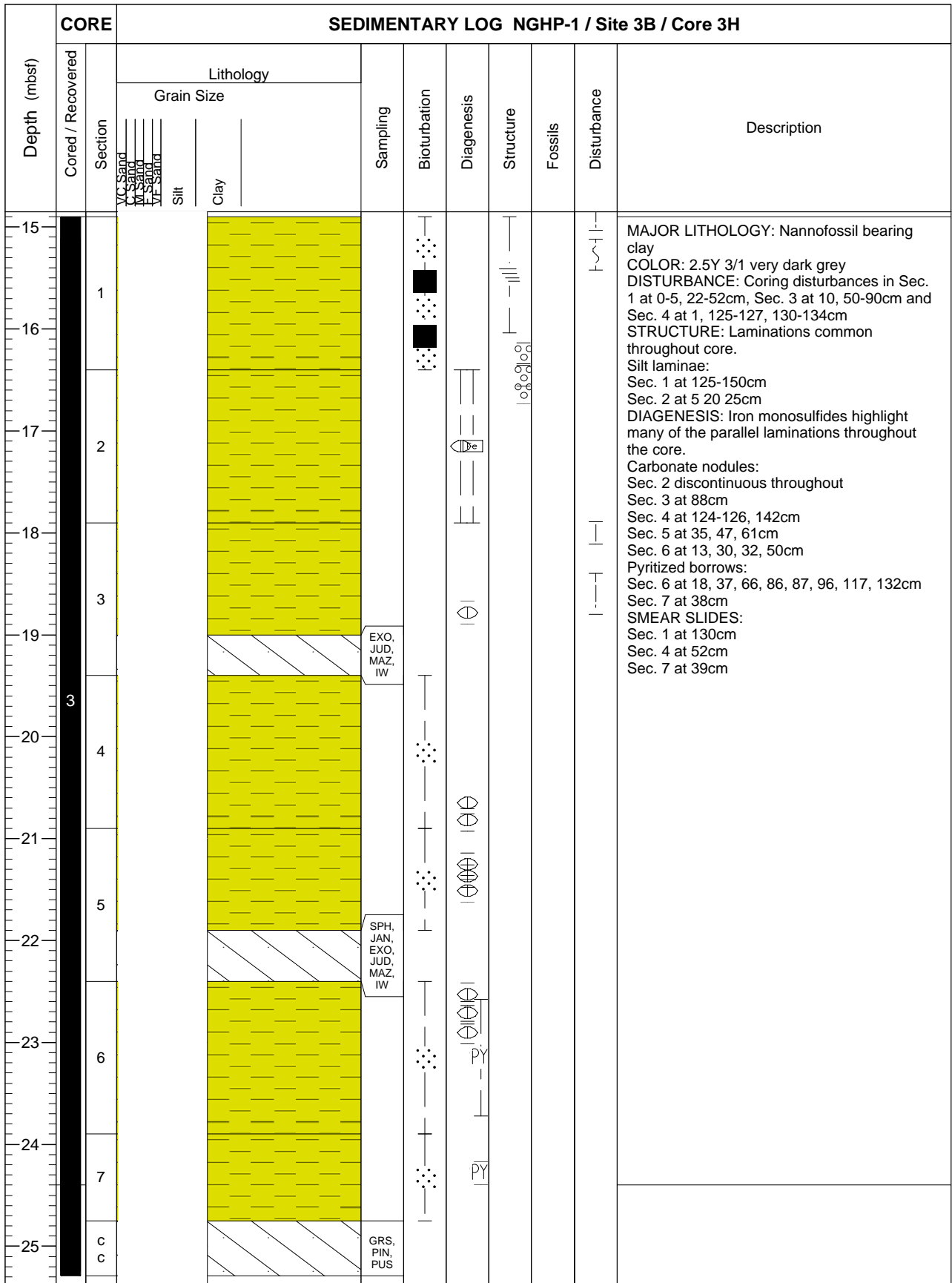
 Soupy

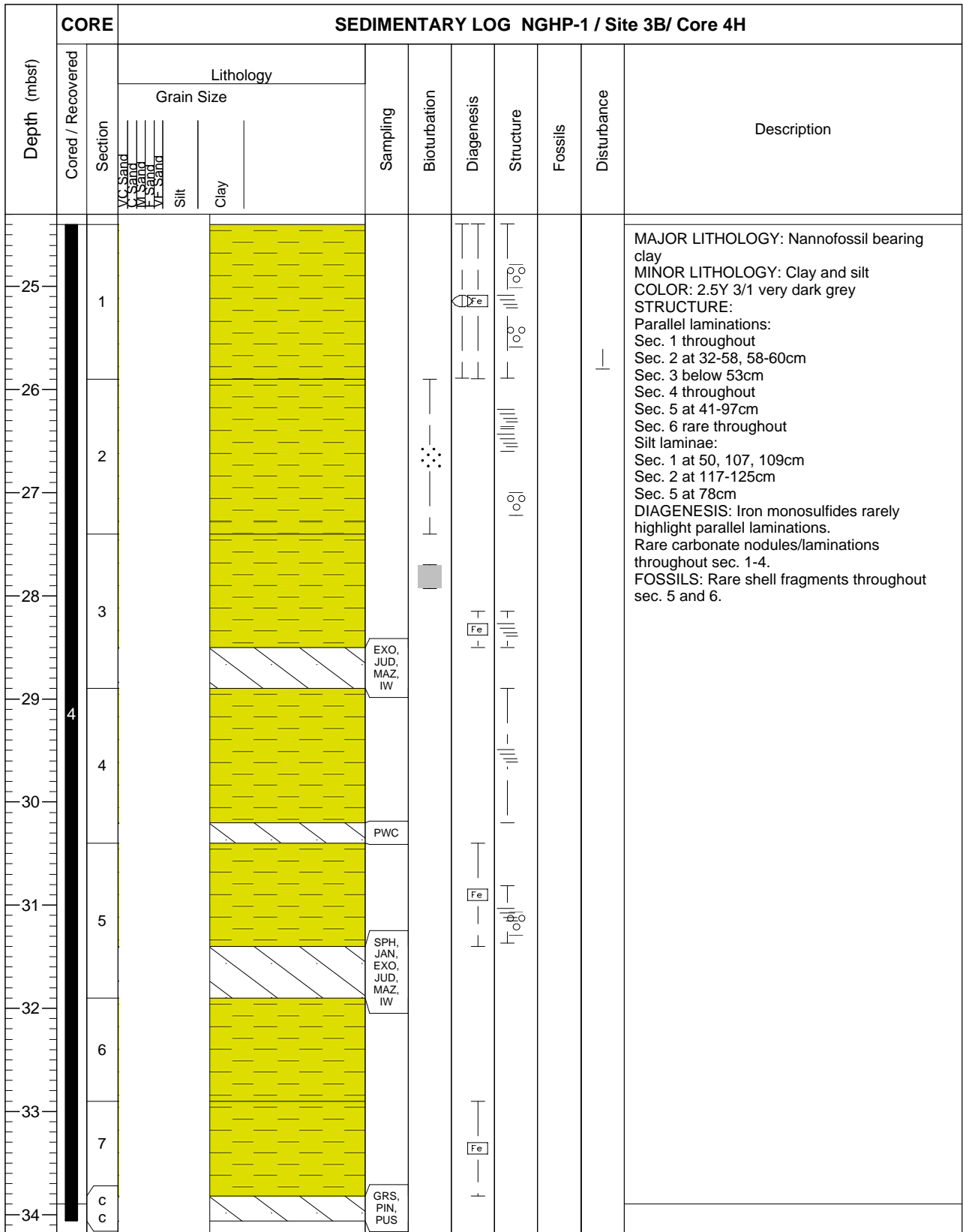
 Moderately Disturbed

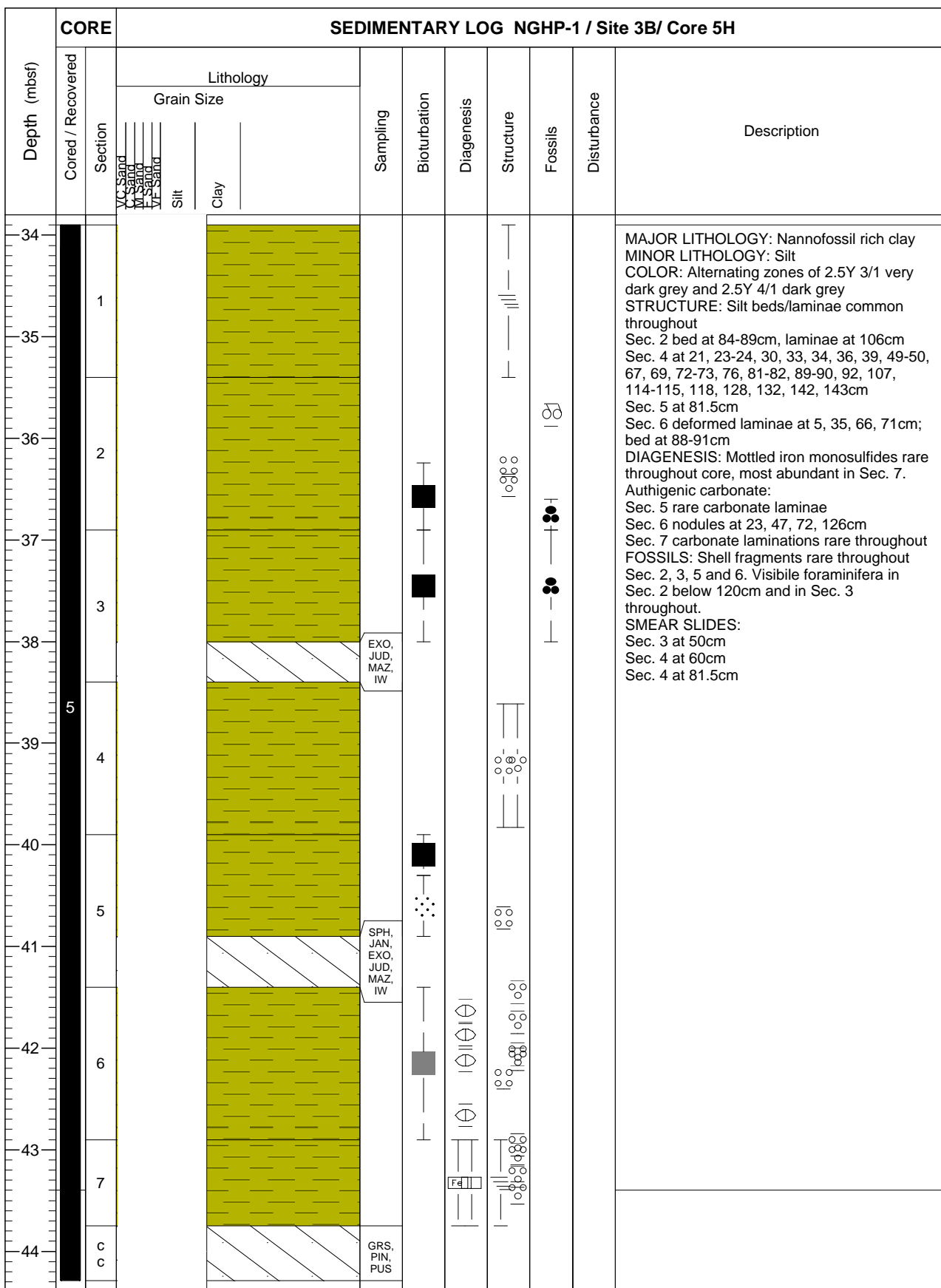
 Very Disturbed

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 1H								
Depth (mbst)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
		VC Sand								
		W Sand								
		VF Sand								
		Silt								
		Clay								
1	1					Fe				<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 3/2 dark olive grey            DIAGENESIS: Rare iron monosulfides throughout core.            Sec. 1 at 120-122cm            Sec. 3 at 103-106cm            Sec. 4 FeS bands at 52, 56, 61cm            SMEAR SLIDES:            Sec. 1 at 102cm            Sec. 3 at 127cm</p>
2	2									
3				SPH, JAN, EXO, JUD, MAZ, IW						
4	3					Fe				
5	4			IW						
6	c			GRS, PIN, PUS		Fe				

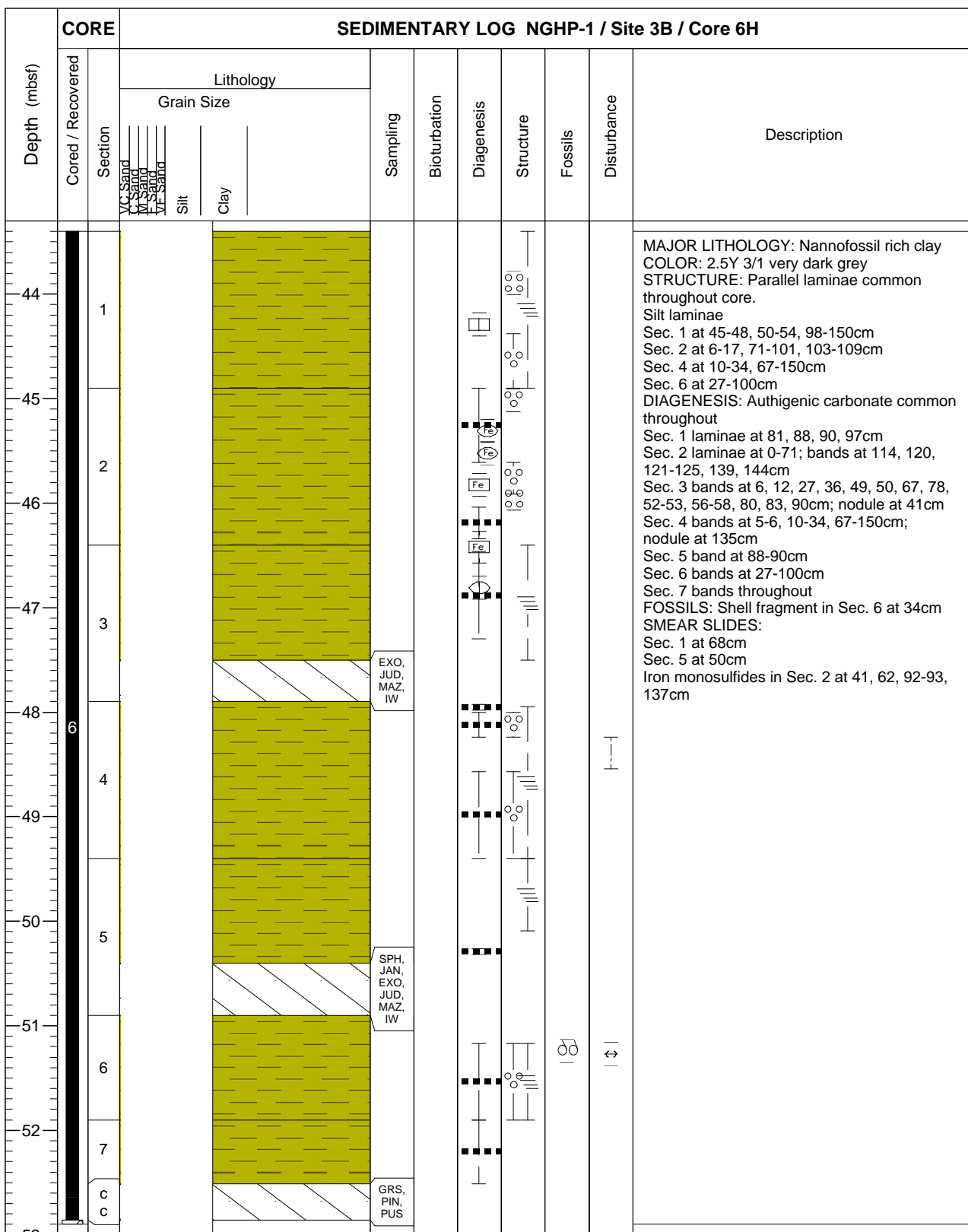


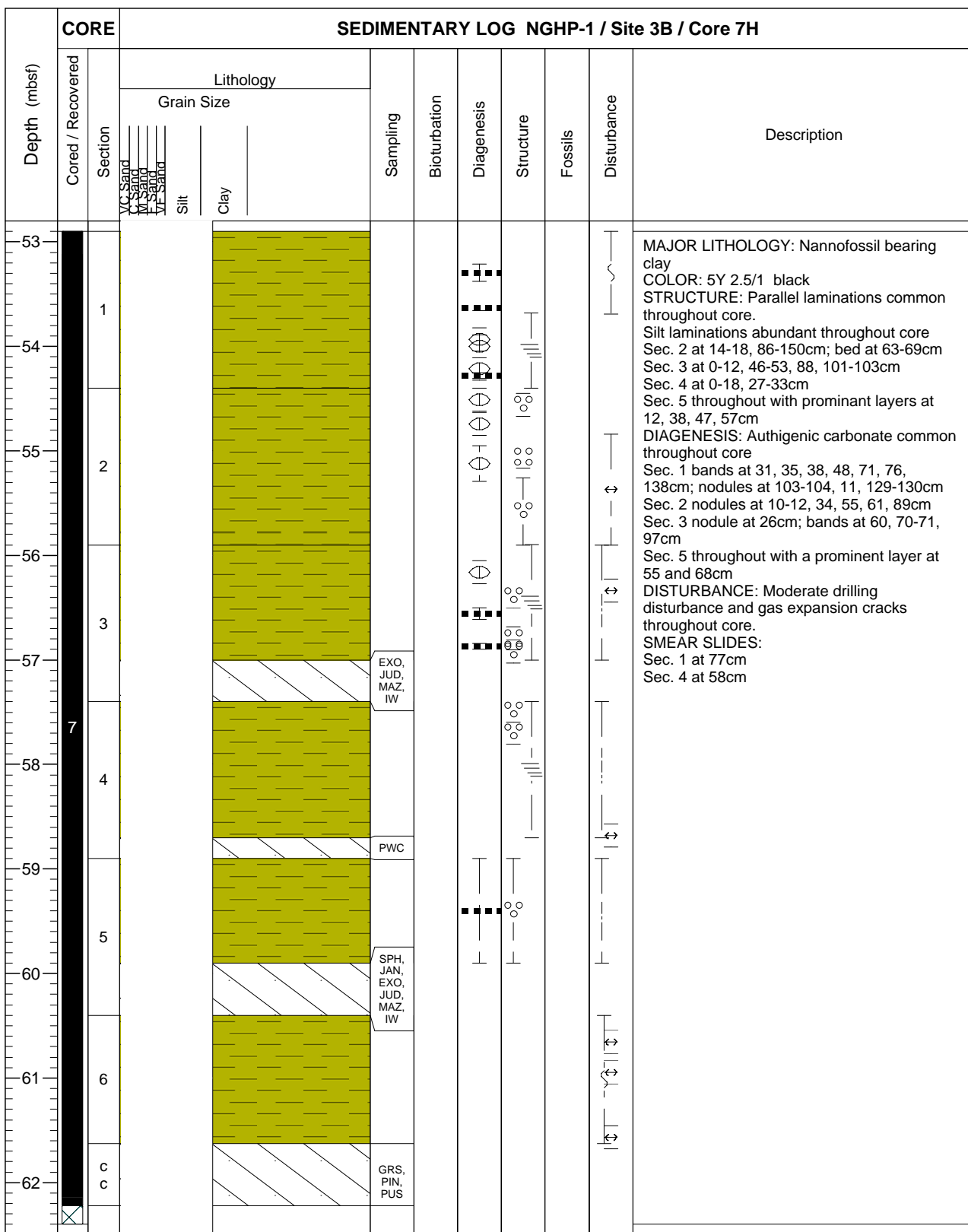




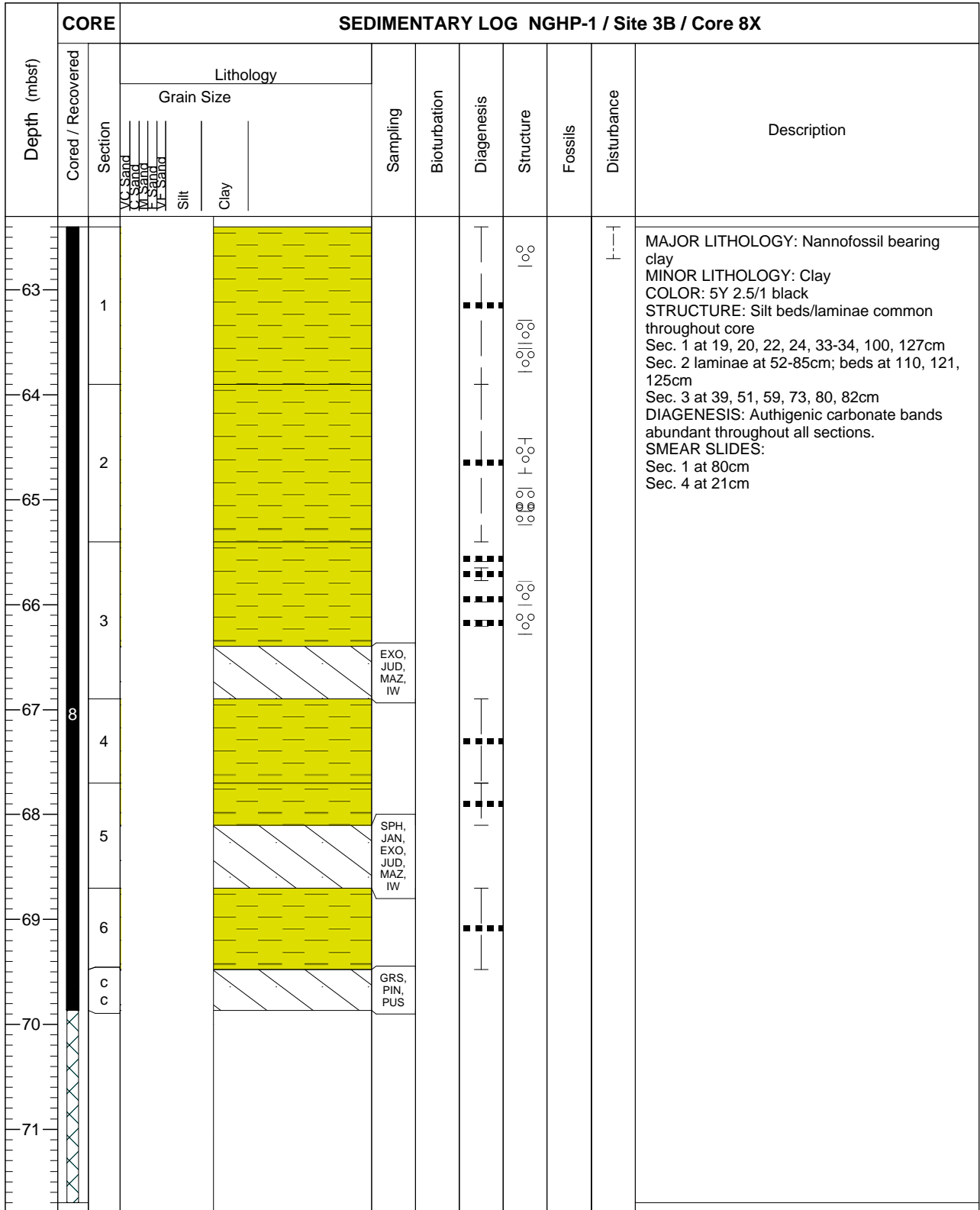


MAJOR LITHOLOGY: Nannofossil rich clay  
 MINOR LITHOLOGY: Silt  
 COLOR: Alternating zones of 2.5Y 3/1 very dark grey and 2.5Y 4/1 dark grey  
 STRUCTURE: Silt beds/laminae common throughout  
 Sec. 2 bed at 84-89cm, laminae at 106cm  
 Sec. 4 at 21, 23-24, 30, 33, 34, 36, 39, 49-50, 67, 69, 72-73, 76, 81-82, 89-90, 92, 107, 114-115, 118, 128, 132, 142, 143cm  
 Sec. 5 at 81.5cm  
 Sec. 6 deformed laminae at 5, 35, 66, 71cm; bed at 88-91cm  
 DIAGENESIS: Mottled iron monosulfides rare throughout core, most abundant in Sec. 7.  
 Authigenic carbonate:  
 Sec. 5 rare carbonate laminae  
 Sec. 6 nodules at 23, 47, 72, 126cm  
 Sec. 7 carbonate laminations rare throughout  
 FOSSILS: Shell fragments rare throughout  
 Sec. 2, 3, 5 and 6. Visible foraminifera in Sec. 2 below 120cm and in Sec. 3 throughout.  
 SMEAR SLIDES:  
 Sec. 3 at 50cm  
 Sec. 4 at 60cm  
 Sec. 4 at 81.5cm









CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 9X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size	Clay							
72	9	1	VC Sand								<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            STRUCTURE: Parallel laminations and silt laminations common throughout core.            DIAGENESIS: Authigenic carbonate laminations common throughout core.            SMEAR SLIDE:            Sec. 2 at 22.5cm</p>
73		2	VC Sand								
74		3	VC Sand		SPH, JAN, EXO, JUD, MAZ, IW						
75		c c	VC Sand		GRS, PIN, PUS						
76			VC Sand								
77			VC Sand								
78			VC Sand								
79			VC Sand								
80			VC Sand								
81			VC Sand								

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 10X									
Depth (mbfs)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			CS Sand								
			MS Sand								
			VF Sand								
			Silt								
			Clay								
82	1 c c	1			IW PUS, PIN, GRS						MAJOR LITHOLOGY: Nannofossil rich clay COLOR: 5Y 2.5/1 black DIAGENESIS: Alternating light and dark colored clay with carbonate bands throughout the core Authigenic carbonate nodules at 29-30cm. SMEAR SLIDE: Sec. 1 at 25cm
83											
84											
85											
86											
87											
88											
89											
90											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 11X							Description		
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure		Fossils	Disturbance
			Grain Size								
91	1 1	1	VC Sand	Clay							<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            STRUCTURE: Parallel laminations of light and dark clay common throughout core.            DIAGENESIS: Sec. 1: Carbonate nodules at 48 and 56cm            Sec. 2: Carbonate nodules at 5, 23, 28, 30, 36, 38, and 43cm; Carbonate bands at 8 and 32cm            SMEAR SLIDE:            Sec. 2 at 42cm</p>
92	2	2	VC Sand	Clay	EXO, IW						
93	c c	c c	VC Sand	Clay	PUS, PIN, GRS						
94											
95											
96											
97											
98											
99											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 12X							Description		
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure		Fossils	Disturbance
			Grain Size								
			VC Sand								
			CS Sand								
			MS Sand								
			VF Sand								
			Silt								
			Clay								
100	1 2	1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            STRUCTURE: Parallel laminations of light and dark clay throughout section 2.            DIAGENESIS: Sec. 1: Carbonate nodules at 22-24, 35-36 and 57cm            Sec. 2: Carbonate nodules at 7-10, and 21-24cm            SMEAR SLIDE:            Sec. 1 at 52cm</p>
101		2			EXO						
		c			PUS, PIN, GRS						
102											
103											
104											
105											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 13P									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand VF Sand VF Sand VF Sand	Silt Clay							
105	1	1						○○			MAJOR LITHOLOGY: Nannofossil rich clay STRUCTURE: Dark colored silty band at 26cm Parallel laminations of light and dark clay from 43-64cm SMEAR SLIDE: Sec. 1 at 49.5cm
106											
106											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 14X							Description		
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure		Fossils	Disturbance
			Grain Size								
			VC Sand	Clay							
106	1 4	1									MAJOR LITHOLOGY: Nannofossil bearing clay COLOR: 5Y 2.5/1 black STRUCTURE: Parallel laminations of light and dark clay throughout core. DIAGENESIS: Sec. 1 and 2: Rare carbonate nodules Sec. 3: Carbonate nodules at 72-89cm SMEAR SLIDE: Sec. 2 at 45cm
107					PWC, IW						
108		2									
109					SPH, JAN, EXO, JUD, MAZ, IW						
110		3									
		c c									
111											
112											
113											
114											
115											

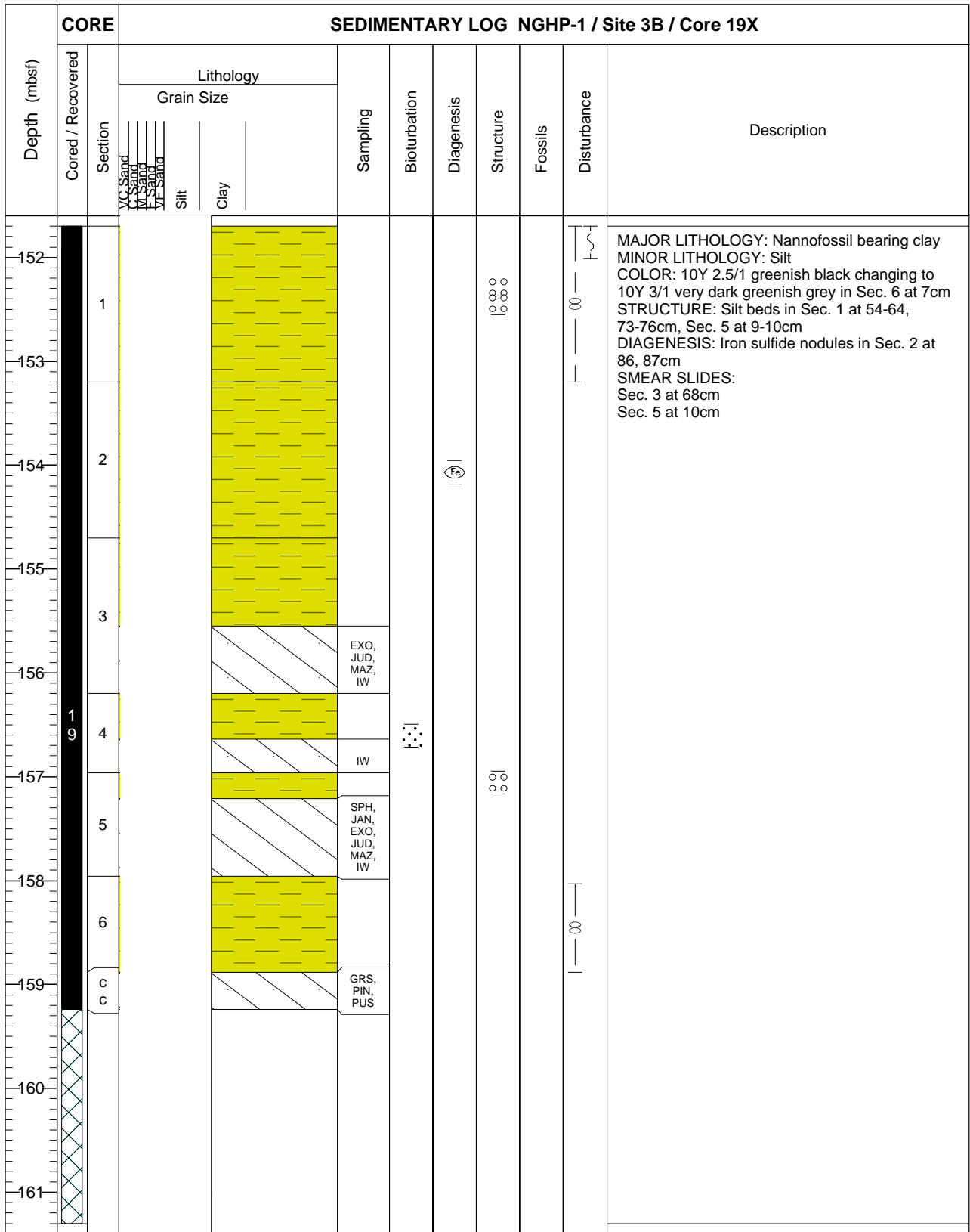
CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 15X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	VF Sand	Silt	Clay					
116	1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            STRUCTURE: Parallel laminations of light and dark clay throughout core.            DIAGENESIS: Rare authigenic carbonate in Sec. 1 and 2.            Carbonate nodules in sec. 3 at 22 and 65 cm; in sec. 4 at 5, 7, 40, 44, 74-75, and 111cm; and Sec. 5 at 67cm            FOSSILS: Rare shell fragments in Sec. 2 and 6            SMEAR SLIDE:            Sec. 3 at 60cm            Sec. 6 at 40cm</p>
117	2									
118										
119	3									
120	1 5				EXO, JUD, MAZ, IW					
121	4									
122					PWS					
123	5				SPH, JAN, EXO, JUD, MAZ, IW					
124	6									
	c c				cc					



CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 16X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	VC Sand	VC Sand	VC Sand	Silt	Clay			
125	1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            DISTURBANCE: Drilling induced disturbance exhibited throughout the entire core            FOSSILS: Shell fragments rare throughout sections 1 and 5            SMEAR SLIDE: none</p>
126	2									
127					EXO, JUD, MAZ, IW					
128	3									
129	4				SPH, JAN, EXO, JUD, MAZ, IW					
130	5									
130	cc				cc					
131										
132										
133										

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 17X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	VC Sand							
		VI Sand	VI Sand							
		VF Sand	VF Sand							
		Silt								
		Clay								
134	1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 5Y 2.5/1 black            STRUCTURE: Parallel laminations of light and dark clay throughout sections 1, 2, and 3.            DIAGENESIS: Sec. 1: Carbonate nodules in sec. 1 at 71-72, 73-74, 90 cm; sec. 2 at 74-75, 89-90, 107-109, 115, 128 cm; sec. 3 at 6-9, 23, 29, 36-37, 48-49, 76, 82 cm; sec. 4 at 40, 51cm; Sec. 2: Carbonate nodules at 7-10, and 21-24 cm; and sec. 5 at 20, 34, 74, and 77 cm            FOSSILS: Rare shell fragments in sections 1 and 2            SMEAR SLIDE:            Sec. 1 at 102cm</p>
135	2									
136				PWC						
137	3									
138				EXO, JUD, MAZ, IW						
139	4									
140	5			SPH, JAN, EXO, JUD, MAZ, IW						
141	c c			cc						
142										

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 18X							Description	
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
			Grain Size	Clay							
142	1 8	1	VC Sand C Sand M Sand F Sand Silt Clay	[Yellow hatched pattern]			⊕			MAJOR LITHOLOGY: Nannofossil bearing clay COLOR: Sec. 1 through 3 and the first 23cm of section 4, 5Y 2.5/1 black; Remainder of sec. 4 and all of 5 and 6 10Y 2.5/1.0 greenish black STRUCTURE: Parallel laminations of light and dark clay section 1 DIAGENESIS: Sec. 1: Carbonate nodules in sec. 1 at 9-11 cm and carbonate band at 144 cm; sec. 2 at 13-14, 56, 85-90 cm; sec. 3 at 0-2, 69-70 cm; sec. 4 at 10, 137-150 cm; sec. 5 at 23, 35-38, 49, 66 cm; sec. 6 at 10, 14, 29, 32, 37, 45, 48, 57, 62-67, 80 cm FOSSILS: Rare shell fragments in sections 1 and 2 SMEAR SLIDE: Sec. 1 at 76cm Sec. 4 at 80cm	
143											
144											2
145											3
146											EXO, JUD, MAZ, IW
147											4
148											5
149	6										
150	c c	cc									
151											



Depth (mbsf)	CORE SEDIMENTARY LOG NGHP-1 / Site 3B / Core 20X										
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size	Clay							
162	20	1	VC Sand								<p>MAJOR LITHOLOGY: Nannofossil bearing clay MINOR LITHOLOGY: Silt COLOR: 5Y 3/1 very dark grey changing to 5Y 2.5/1 black in Sec. 1 at 20cm STRUCTURE: Silt beds/laminae moderate throughout core Sec. 1 at 20-21, 56-62cm Sec. 3 at 2cm Sec. 4 at 3, 8, 14, 52, 90-96, 103cm Sand beds in Sec. 3 at 12-26cm DIAGENESIS: Authigenic carbonate moderate throughout core Sec. 1 nodules at 72-73, 78, 98, 116cm Sec. 2 nodules at 17-18cm Sec. 6 nodules at 12, 15cm; band at 36cm FOSSILS: Gastropod shell (intact) found in IW sample SMEAR SLIDES: Sec. 1 at 50cm Sec. 4 at 7cm</p>
163		2	VC Sand		MBIO BAC						
164		3	VC Sand		EXO, JUD, MAZ, IW						
165		4	VC Sand		MAR, MAF, MAZ, IW						
166		5	VC Sand		SPH, JAN, EXO, JUD, MAZ, IW						
168		6	VC Sand								
169		cc	VC Sand		GRS, PIN, PUS						
170											
171											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 21X												
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description			
			Grain Size											
			VC Sand V Sand M Sand VF Sand	Silt Clay										
171	2 1	1									<p>MAJOR LITHOLOGY: Nannofossil rich clay            COLOR: 10Y 3/1 very dark greenish grey            STRUCTURE: Rare silt laminae throughout core            Sec. 4 at 15, 54cm            DIAGENESIS: Authigenic carbonate nodules            common throughout core            Sec. 2 at 10, 14, 46, 50, 57, 70, 89, 107, 116, 125            Sec. 3 at 3-4, 40, 50, 70cm            Sec. 4 at 26cm            SMEAR SLIDES:            Sec. 2 at 37cm            Sec. 3 at 34cm</p>			
172					EXO, JUD, MAZ, IW									
173					2									
174					3	PWC								
175					4	SPH, JAN, EXO, JUD, MAZ, IW								
176	c c				GRS, PIN, PUS									

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 22P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
175	2 2	1	VC Sand VC Sand VC Sand VF Sand VF Sand Silt Clay								MAJOR LITHOLOGY: Nannofossil bearing clay COLOR: 5Y 2.5/1 black STRUCTURE: Silt viens throughout SMEAR SLIDE: Sec. 1 at 60cm
176											

Depth (mbsf)	CORE SEDIMENTARY LOG NGHP-1 / Site 3B / Core 23Y										
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
176	2	1	VC Sand	Clay				 			MAJOR LITHOLOGY: Nannofossil bearing clay MINOR LITHOLOGY: Sand COLOR: 5Y 2.5/1 black STRUCTURE: Silt bed at 1, 42-52cm SMEAR SLIDES: Sec. 1 at 48.5cm and 61cm
177	3		VC Sand	Clay				 		 ↕	



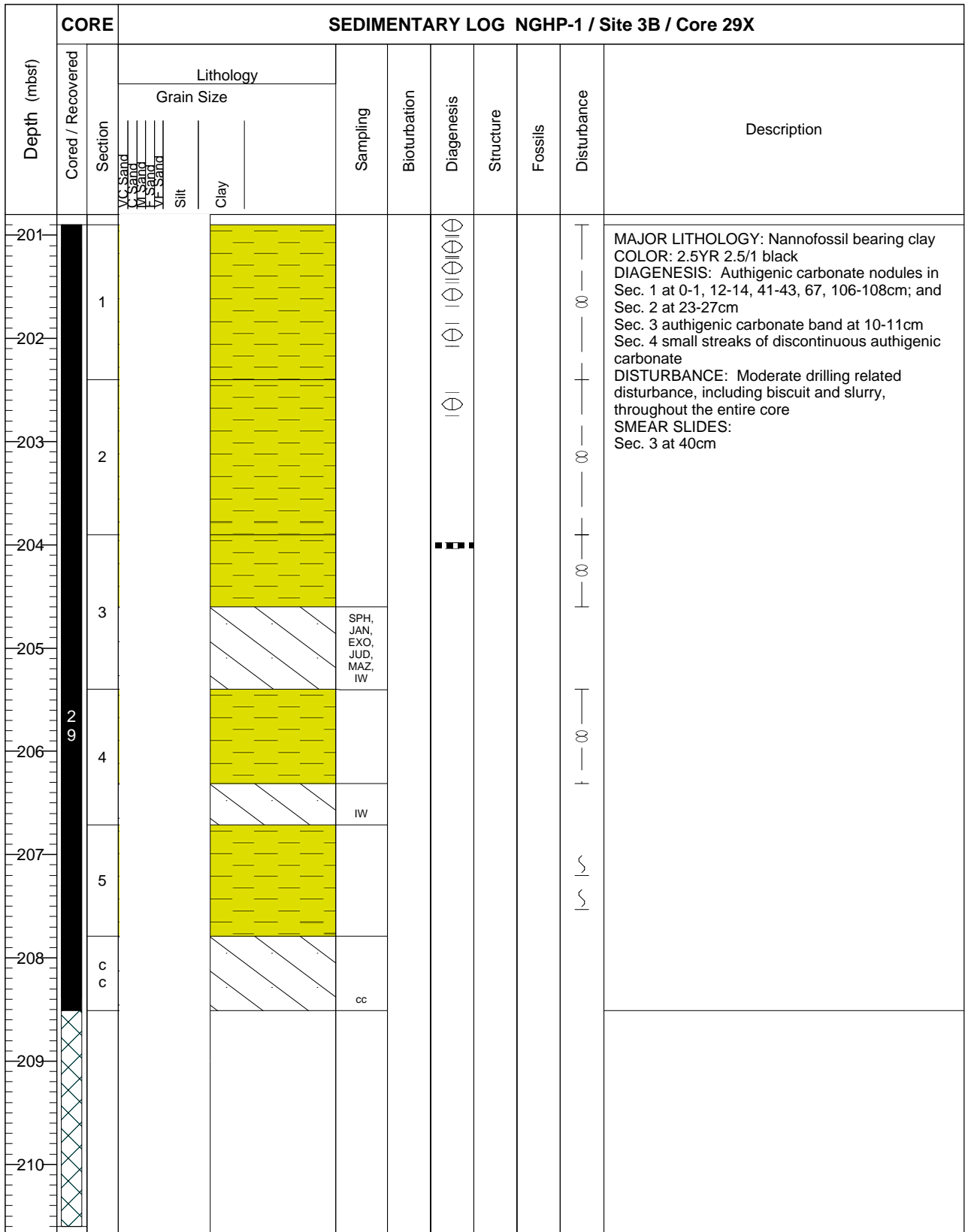
Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 24X								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand	Clay							
177		1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay MINOR LITHOLOGY: Clay COLOR: 2.5Y 2/N black STRUCTURE: Parallel laminations common throughout core FOSSILS: Shell fragments in Sec. 2 at 69.5-71.5cm Dentalium sp. and Sec. 3 at 35cm SMEAR SLIDES: Sec. 2 at 60cm Sec. 5 at 50cm</p>
178		2									
179					PWC						
180		3									
181					EXO, JUD, MAZ, IW						
182		4									
183					SPH, JAN, EXO, JUD, MAZ, IW						
184		5									
		6									
		c			GRS, PIN, PUS						
		c									
185											
186											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 25X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand V Sand IV Sand VF Sand	Silt Clay							
187	1			GRS						<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 2.5Y 2/N black            STRUCTURE: Parallel laminations common throughout core            DIAGENESIS: Authigenic carbonate nodules throughout core in Sec. 2 at 20, 29, 90, and 103cm; in Sec. 3 at 83cm; in Sec. 4 at 5, 16, 31-33cm; in Sec. 5 and 6 rare occurrences; in Sec. 7 at 20, 46, 70, 77cm            DISTURBANCE: Moderate drilling related disturbance throughout the entire core            FOSSILS: Rare shell fragments in Sec. 4, 6 and 7            SMEAR SLIDES:            Sec. 4 at 132cm            Sec. 7 at 56cm</p>
188	2									
189	3			EXO, JUD, MAZ, IW						
190	4									
191	5			SPH, JAN, EXO, JUD, MAZ, IW						
192	6									
193	7									
194	cc			cc						
195										
196										

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 26X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	Clay							
		VF Sand								
		VI Sand								
		VII Sand								
		VIII Sand								
		Silt								
197	1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 2.5Y 2/N black            STRUCTURE: Parallel laminations common throughout core            DIAGENESIS: Authigenic carbonate nodules throughout core in Sec. 1 at 14-16, 48, 91-92, 99, 101, and 118-119cm; Sec. 2 at 10, 28-30, 35, 40, 44, and 48cm; in Sec. 3 at 24-25, 26-28, 37-39, 48-50, 54-55, 82, and 99-100cm; in Sec. 4 at 0-3, 22-27, 32-35, 38-41, and 49-52cm            DISTURBANCE: Moderate drilling related disturbance throughout the entire core            FOSSILS: Rare shell fragments in Sec. 3 and 4            RECOVERY: Significantly greater than cored interval, 210%            SMEAR SLIDES: Sec. 3 at 60cm</p>
198	2			SPH, JAN, EXO, JUD, MAZ, IW						
199	3									
200	4			PWC						
201	cc			cc						

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 27P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
199	27	1	VC Sand	Clay	IW		⊕				MAJOR LITHOLOGY: Nannofossil bearing clay COLOR: 5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules at 30, 72cm SMEAR SLIDE: Sec. 1 at 60cm
			VF Sand								

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 28E									
Depth (mbfs)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			MS Sand								
			MF Sand								
			Silt								
			Clay								
200	X										No core was recovered.
204	X										

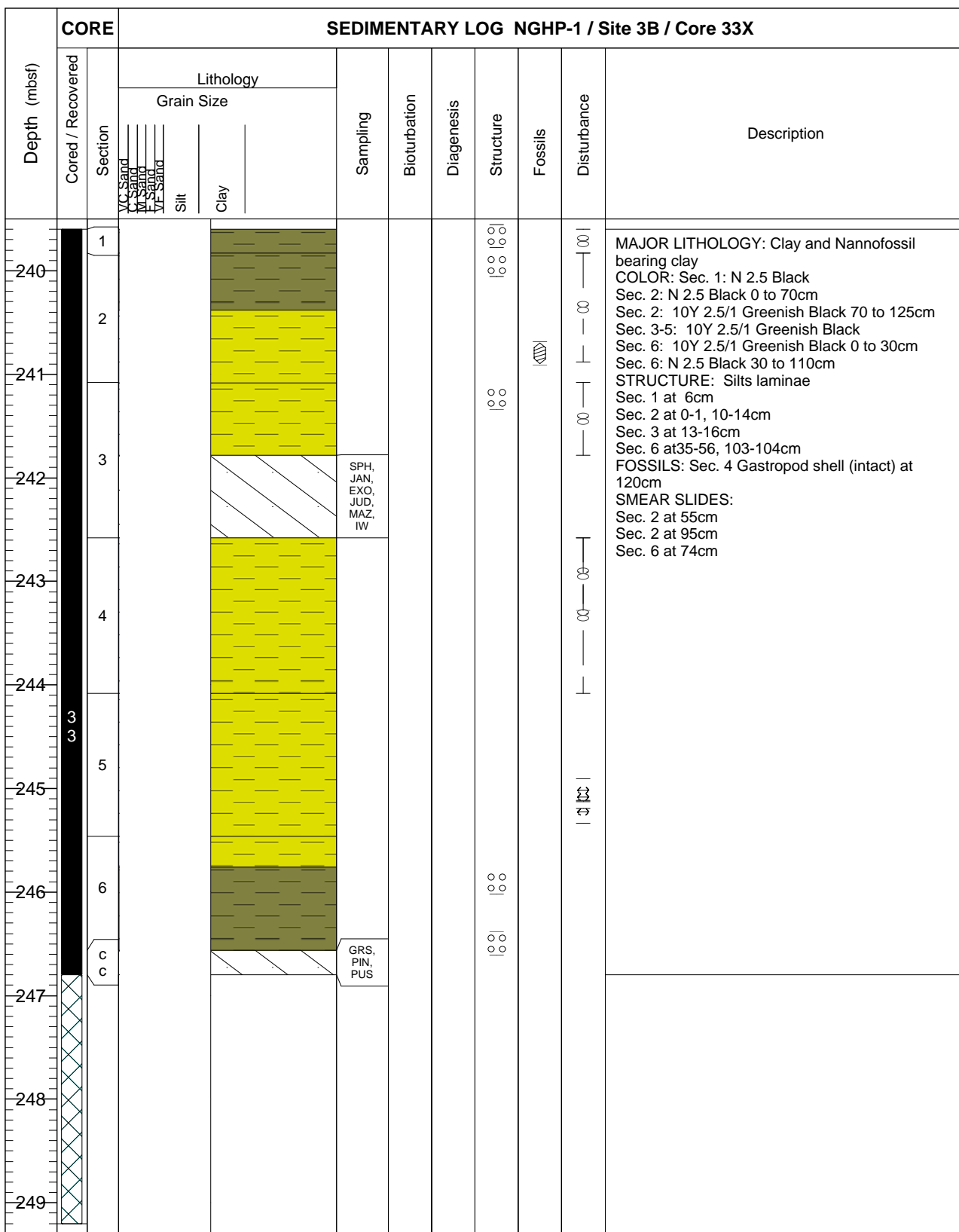


CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 30X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	UV Sand	UW Sand	VF Sand	Silt	Clay			
211	1									<p>MAJOR LITHOLOGY: Clay            COLOR: N 2.5 black            STRUCTURE: Faint parallel laminae throughout sec. 1 and 3            FOSSILS: Rare shell fragments in Sec. 3, 4, 5 and 6            SMEAR SLIDES:            Sec. 2 at 40cm            Sec. 5 at 120cm            DISTURBANCE: Sec. 6 was extruded on catwalk (highly disturbed was not run through the MSCL track)</p>
212	2									
213					EXO, JUD, MAZ, IW					
214	3							oo		
215	4							oo		
216					IW			oo		
217	5							oo		
218	6							oo		
219	c c				GRS, PIN, PUS					
220										

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 31X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			U Sand								
			W Sand								
			VF Sand								
			Silt								
			Clay								
221	1										<p>MAJOR LITHOLOGY: Clay until the beginning of Sec. 3 where it changes to nannofossil bearing clay            COLOR: N 2.5/1 black changing to 10Y 2.5 greenish black in the top of Sec. 3            DISTURBANCE: Buscuit/slurry throughout Sec. 1, 3, 4, 5 and 6            Gas expansion cracks in Sec. 3 at 3, 10, 50, 95cm            FOSSILS: Shell fragments in Sec. 2 at 24cm, Sec. 5 at 51cm, and Sec. 6 at 28, 51cm            SMEAR SLIDES:            Sec. 1 at 100cm            Sec. 4 at 80cm</p>
222	2										
223					SPH, JAN, EXO, JUD, MAZ, IW						
224	3										
225	3 1				PWC						
226	4										
227	5										
228	6										
229	c c				PUS, PIN, GRS						
230											



Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 32X								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand VF Sand VW Sand VX Sand VY Sand VZ Sand	Silt Clay							
230		1									<p>MAJOR LITHOLOGY: Nannofossil bearing clay MINOR LITHOLOGY: Silt beds/laminae moderate throughout core (many disturbed by drilling)</p> <p>Sec. 1 bed at 127-128cm Sec. 2 bed at 2cm; laminae at 84-88cm Sec. 4 bed at 25-26cm; laminae at 60-83, 118-129, 133-150cm Sec. 5 at 0-22, 35-47, 75-76, 93cm Sec. 6 laminae at 18cm; bed at 64-65; sand and silt at 35-50cm</p> <p>DISTURBANCE: Biscuit and slurry throughout core SMEAR SLIDES: Sec. 2 at 33cm Sec. 3 at 43cm</p>
231											
232		2									
233											
234		3			SPH, JAN, EXO, JUD, MAZ, IW						
235		4									
236		5									
237		6									
238		c c			PUS, PIN, GRS						
239											



Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 34X									
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
			VC Sand	Clay								
250		1					Fe	100 100				<p><b>MAJOR LITHOLOGY:</b> Clay in regions of black color and nannofossil bearing clay in regions of greenish black color. <b>COLOR:</b> N 2.5/ black in Sec. 1 at 0-45cm Sec. 2 at 5-100cm Sec. 3 at 25-40cm Sec. 4 at 0-20, 50-150cm Sec. 5 at 0-150cm Sec. 6 at 0-10cm Sec. 7 at 30-78cm 10Y 2.5/1 greenish black in Sec. 1 at 45-90cm Sec. 2 at 0-5, 100-150cm Sec. 3 at 0-25, 40-70cm Sec. 4 at 20-50cm Sec. 6 at 10-150cm Sec. 7 at 0-30cm <b>DIAGENESIS:</b> Authigenic carbonate moderate throughout Sec. 1 band at 43cm Sec. 2 nodules at 72-77cm Sec. 4 bands at 53-65; nodules at 100, 110, 115-134cm Sec. 5 bands at 0-5, 9, 23, 28, 37, 48-118cm Sec. 7 bands at 54-62cm Iron monosulfides in Sec. 1 at 63-90cm <b>STRUCTURE:</b> Silt bed in Sec. 2 at 20-25cm <b>DISTURBANCE:</b> Biscuit/slurry throughout Sec. 1, 2, 3 and 6 <b>SMEAR SLIDES:</b> Sec. 1 at 64cm Sec. 2 at 65cm Sec. 4 at 128cm</p>
251		2										
252		3										
253		3 4			SPH, JAN, EXO, JUD, MAZ, IW							
254		4										
255		5										
256		6										
257		7										
258		c c			GRS, PIN, PUS							

Depth (mbsf)	CORE SEDIMENTARY LOG NGHP-1 / Site 3B / Core 35X											
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
258	3 5	1	VC Sand C Sand M Sand VF Sand Silt Clay	Clay				oo		MAJOR LITHOLOGY: Nannofossil rich clay COLOR: N 2.5/ black in Sec. 1, 2, 3, and 8 N 3/ very dark grey in Sec. 4, 5, 6 and 7 DIAGENESIS: Iron monosulfide precipitates common throughout core Sec. 1 at 18-21, 26-28, 34, 57, 62-66, 89-94cm Sec. 2 at 28-30, 35, 42, 53, 62cm Sec. 3 at 7, 16-19, 32, 40-42, 55-57, 63-67cm Sec. 4 throughout; nodule at 132cm Sec. 5 at 6, 16, 25, 35, 58, 88-90, 118-125, 136-144cm Sec. 6 at 4-5, 39-58, 99-109cm Sec. 7 at 4-12, 23, 33-40, 49-64, 74-100cm Sec. 8 at 14-40, 47, 57, 64, 77-90cm FOSSILS: Shell fragment in Sec. 3 at 7cm DISTURBANCE: Biscuit/slurry throughout core. Sec. 1 and 2 extruded onto catwalk (very disturbed, no MSCL data) SMEAR SLIDES: Sec. 3 at 47cm Sec. 4 at 80cm Sec. 6 at 103cm		
259		2										
260		3				SPH, JAN, EXO, JUD, MAZ, IW						
261		4										
262		5										
263		6										
264		7										
265		8										
266		c					GRS, PIN, PUS					
267	c											

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 36X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	Clay							
		VC Sand								
		VC Sand								
		VC Sand								
		VC Sand								
		Silt								
268	1					Fe Fe				<p>MAJOR LITHOLOGY: Nannofossil rich clay            COLOR:            2.5Y 2.5/1 black in Sec. 1, 5, and 6            2.5Y 3/1 very dark grey in Sec. 2 (below 50cm),            Sec. 3 (below 40cm), and Sec. 4 (below 80cm)            2.5Y 4/1 dark grey in Sec. 2 (above 50cm), Sec.            3 (about 40cm) and Sec. 4 (above 80 cm)            DIAGENESIS: Iron monosulfides            Sec. 1 at 92, 110cm            Sec. 2 mottling at 30-150cm; filled burrows at            51, 104cm            Sec. 3 throughout; filled burrow at 22cm            Authigenic carbonate common throughout core            Sec. 4 nodules at 55-110cm            Sec. 5 bands at 0-50; nodules at 50-150cm            Sec. 6 nodules throughout            FOSSILS: Gastropod shell fragment in Sec. 1 at            50cm            DISTURBANCE: Biscuit/slurry throughout core.            Small cracks rare throughout core            SMEAR SLIDE:            Sec. 5 at 116cm</p>
269										
270	2					Fe				
271										
272	3					Fe				
272				SPH, JAN, EXO, JUD, MAZ, IW						
273	3 6									
273	4									
274										
274	5									
275										
275	6									
276										
276	c c			GRS, PIN, PUS						
277										

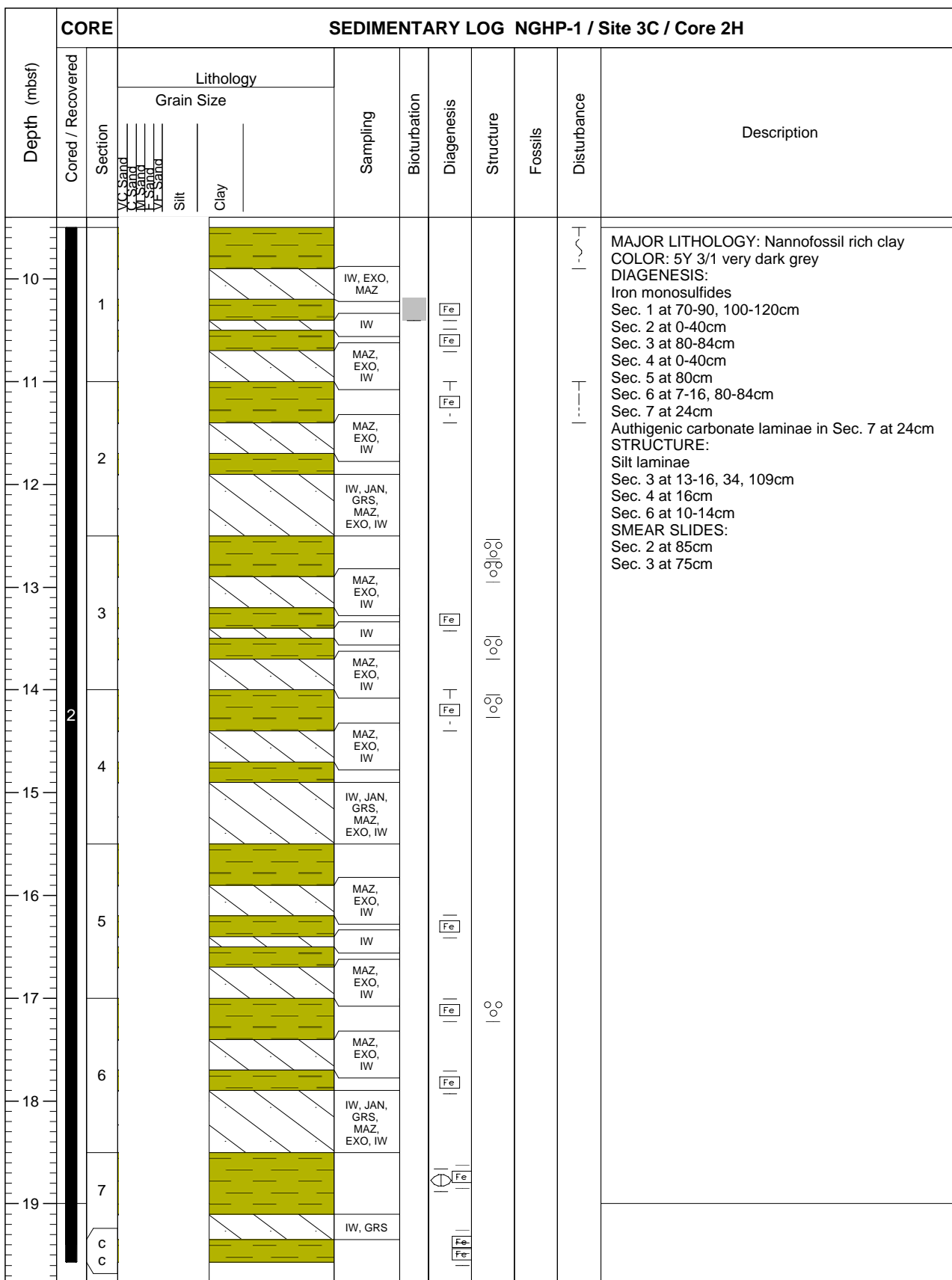
CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 37X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	Clay							
		VC Sand								
		VC Sand								
		VC Sand								
		VC Sand								
		VC Sand								
		Silt								
278	1									<p>MAJOR LITHOLOGY: Nannofossil rich clay MINOR LITHOLOGY: Silty clay COLOR: 2.5Y 2.5/N black in Sec. 1, 2, and 3 2.5YR 2.5/1 black in Sec. 4 and 5 (0-64cm) 2.5YR 3/1 very dark grey in Sec. 5 at 64-118cm and alternating zones in Sec. 6 and 7 2.5YR 4/1 dark grey in Sec. 5 at 120-150cm and alternating zones in Sec. 6 and 7 DIAGENESIS: Authigenic carbonate nodules in Sec. 4 at 7-9cm and Sec. 5 at 135-136cm</p> <p>STRUCTURE: Sand beds/laminae common throughout core Sec. 2 beds at 24-25, 78, 84-85, 88-89, 90cm; laminae at 9-10, 56, 123, 142cm Sec. 3 laminae at 31-34, 40, 46, 62, 63cm Sec. 4 laminae at 5-6, 30-50, 72-77, 85-87, 104-112, 143-144cm Sec. 5 laminae at 18, 30-34, 63-65cm FOSSILS: Visible foraminifera in Sec. 6 and 7 DISTURBANCE: Biscuit/slurry throughout core, disrupts most of the sand/silt beds SMEAR SLIDES: Sec. 3 at 32cm Sec. 4 at 110cm Sec. 7 at 30cm</p>
279	2									
280	3			SPH, JAN, EXO, JUD, MAZ, IW						
281	4									
282	5									
283	6									
284	7									
285	c			GRS, PIN, PUS						
286	c									
287										

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 38X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	Clay							
		VC Sand								
		VC Sand								
		VC Sand								
		VC Sand								
		Silt								
287	1									<p><b>MAJOR LITHOLOGY:</b> Clay  <b>MINOR LITHOLOGY:</b> Nannofossil rich clay, transitions from clay in Sec. 4 and ends in Sec. 5 at 10cm  <b>COLOR:</b>                      2.5YR 3/1 black in Sec. 1, 2, 3, top of Sec. 4, dispersed in Sec. 5 and 6                      2.5YR 4/1 very dark grey dispersed in Sec. 5 and 6                      5Y 4/2 olive in bottom of Sec. 4 and top of Sec. 5  <b>DIAGENESIS:</b>                      Iron monosulfide filled burrows in Sec. 2 at 47, 62cm and in Sec. 4 throughout                      Authigenic carbonate nodules in Sec. 6 at 54-55, 61cm  <b>FOSSILS:</b>                      Visible foraminifera throughout sec. 1 and 2.                      Small shell fragments throughout sec. 2  <b>STRUCTURE:</b>                      Sand/silt laminae in sec. 1 at 118cm.                      Sand laminae in Sec. 5 at 8, 85-100cm  <b>DISTURBANCE:</b> Biscuit/slurry throughout core  <b>SMEAR SLIDES:</b>                      Sec. 2 at 120cm                      Sec. 4 at 80cm                      Sec. 5 at 16cm</p>
288	2									
289	2									
290	3			SPH, JAN, EXO, JUD, MAZ, IW						
291	3 8									
292	4									
293	5									
294	6									
294	c c			GRS, PIN, PUS						
295										

CORE		SEDIMENTARY LOG NGHP-1 / Site 3B / Core 39X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	VC Sand	VC Sand	VC Sand	VC Sand	Silt	Clay		
296	1									<p><b>MAJOR LITHOLOGY:</b> Nannofossil rich clay  <b>COLOR:</b>                      2.5YR 2.5/1 black in all sections                      Sec. 2: 2.5Y 4/1 dark gray deformed band                      Sec. 5: 2.5Y 3/1 very dark gray sediment mottling between 107-115cm</p> <p><b>DIAGENESIS:</b>                      Iron monosulfide filled burrows in Sec. 4 at 31, 42cm                      Authigenic carbonate nodules in Sec. 1 at 32, 46cm; Sec. 2 at 40-41, 95, 104cm; Sec. 3 at 9, 35, 58cm; Sec. 4 at 59, 97, 108, 134, 148cm; Sec. 5 at 55, 89, 106-107cm</p> <p><b>FOSSILS:</b>                      Small shell fragments throughout Sec. 3</p> <p><b>DISTURBANCE:</b> Biscuit/slurry throughout core</p> <p><b>SMEAR SLIDES:</b>                      Sec. 1 at 80cm                      Sec. 5 at 120cm</p>
297										
298	2									
299	3									
300										
301	4		SPH, JAN, EXO, JUD, MAZ, IW							
302	5									
303	c c			GRS, PIN, PUS						




CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 1H									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand C Sand IW Sand VF Sand	Silt Clay							
1	1	1			IW			—			<p>MAJOR LITHOLOGY: Nannofossil rich clay in Sec. 1, 2, and 3 (0-40cm) changing to nannofossil rich clay after 40cm in Sec. 3</p> <p>MINOR LITHOLOGY: Silty sand</p> <p>COLOR: 10YR 4/3 brown in Sec. 1, 2, and 3 (0-40cm) 10YR 3/3 dark brown in Sec. 3 (after 40cm), 4, 5, 6, 7 and CC</p> <p>STRUCTURE: Faint laminae in Sec. 4, 5 and 6 Sand beds in Sec. 4 at 4-5cm and Sec. 5 at 5-6cm</p> <p>FOSSILS: Bivalve shell in Sec. 2 at 38cm</p> <p>SMEAR SLIDES: Sec. 1 at 78cm and 82cm Sec. 5 at 5cm Sec. CC at 10cm</p>
					MAZ, EXO, IW						
2	2	2			MAZ, EXO, IW			⬡			
					IW, MAZ, JAN, MAZ, EXO, IW						
3	3	3			MAZ, EXO, IW						
					IW						
4	4	4			IW, EXO, MAZ			••			
					IW, MAG, JAN, MAZ, EXO, IW						
5	5	5			IW, MAZ, EXO			••••			
					IW			—			
6	6	6			MAZ, EXO, IW						
					MAZ, EXO, IW						
7	7	7			IW, MAG, JAN, MAZ, EXO, IW			—			
8	7	7									
9	7	7									
	CC	CC									



Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 3H							Description																														
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance																													
			Grain Size	Clay																																				
			VC Sand V Sand IV Sand VF Sand	Silt	Clay																																			
19	3	1																		<p>MAJOR LITHOLOGY: Nannofossil bearing clay            COLOR: 10Y 3/1 very dark greenish grey            DIAGENESIS:            Iron sulfides            Sec. 3 at 128cm            Sec. 4 at 67cm            Sec. 7 at 53-90cm            Authigenic carbonate bands            Sec. 1 at 101cm            Sec. 2 at 12, 25, 30, 36, 40, 44, 51, 54, 58, 69cm            Sec. 4 at 44, 111cm            Sec. 5 at 14-15cm            Sec. 6 at 53-58, 68-75, 82-84cm            Sec. 7 at 42-43            STRUCTURE:            Silt laminae            Sec. 4 at 74-90cm            Sec. 5 at 6, 8, 21, 66-67, 75, 97, 123cm            Sec. 6 at 14, 21cm            Sec. 7 at 4, 8, 13, 28cm            Sec. CC at 7, 12-13cm            SMEAR SLIDES:            Sec. 1 at 110cm            Sec. 7 at 70cm</p>																				
20																						IW, EXO, MAZ																		
21																					2																			
22																																								
23																					3																			
24																					4																			
25																					5																			
26																																								
27																					6																			
28																					7																			
29																					cc																			

CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 4P									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			MS Sand								
			MF Sand								
			Silt								
			Clay								
170	4	1									
170											MAJOR LITHOLOGY: Nannofossil rich clay COLOR: 10Y 2.5/1 greenish black DIAGENESIS: Authigenic carbonate bands at 45 and 49cm SMEAR SLIDE: Sec. 1 at 42cm
171											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 5Y							Description		
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance	
			Grain Size									
			VC Sand									
			MS Sand									
			MF Sand									
			Silt									
			Clay									
175	5	1						○ ○				MAJOR LITHOLOGY: Nannofossil bearing clay MINOR LITHOLOGY: Silty clay from 36-58cm COLOR: N 2.5 black STRUCTURE: Silt laminae at 0-5, 21-26, 73-77, 80-81cm SMEAR SLIDE: Sec. 1 at 55cm This FPC core was not recovered at pressure.
176								○ ○ ○ ○				

CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 6E									
Depth (mbfsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			MS Sand								
			MF Sand								
			Silt								
			Clay								
180											
180	6	1									MAJOR LITHOLOGY: Clay COLOR: N 2.5 black SMEAR SLIDE: Sec. 1 at 25cm
181											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 7P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand V Sand M Sand VF Sand	Silt	Clay						
184	7										MAJOR LITHOLOGY: Nannofossil rich clay COLOR: 5GY 2.5/1 greenish black DIAGENESIS: Authigenic carbonate nodules at 20-21, 60-63cm Visible pyrite at 10cm FOSSILS: Visible foraminifera at 10cm SMEAR SLIDE: Sec. 1 at 24cm
185											

Depth (mbstf)	CORE										SEDIMENTARY LOG NGHP-1 / Site 3C / Core 8									
	Cored / Recovered	Section	Lithology				Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description							
			Grain Size																	
			VC Sand	CS Sand	MS Sand	FS Sand	Silt	Clay												
													No core was recovered.							



Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 9Y								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			VF Sand								
			VF Sand								
			VF Sand								
			Silt								
			Clay								
196	9	1									
											MAJOR LITHOLOGY: Nannofossil bearing clay COLOR: 5GY 2.5/1 greenish black DIAGENESIS: Authigenic carbonate nodules at 56, 65-66, 67-69, and 72-73cm Authigenic carbonate band at 16cm SMEAR SLIDE: Sec. 1 at 50cm
197											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 3C / Core 10P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			VF Sand								
			VF Sand								
			VF Sand								
			Silt								
			Clay								
197	10	1									MAJOR LITHOLOGY: Nannofossil rich clay COLOR: 10Y 2.5/1 greenish black DIAGENESIS: Authigenic carbonate nodule at 17-20cm SMEAR SLIDE: Sec. 1 at 33cm
198											