

NGHP Expedition 1

Cored Interval Site 15 - Hole A

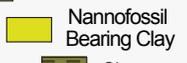
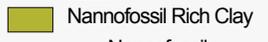
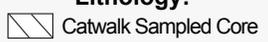
Seafloor 937.9 (m)

Barrel Sheet Key

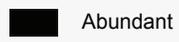
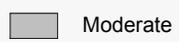
Cored & Recovered:



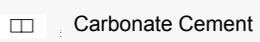
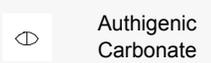
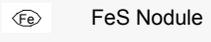
Lithology:



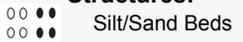
Bioturbation:



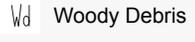
Diagenesis:



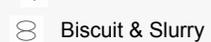
Structures:

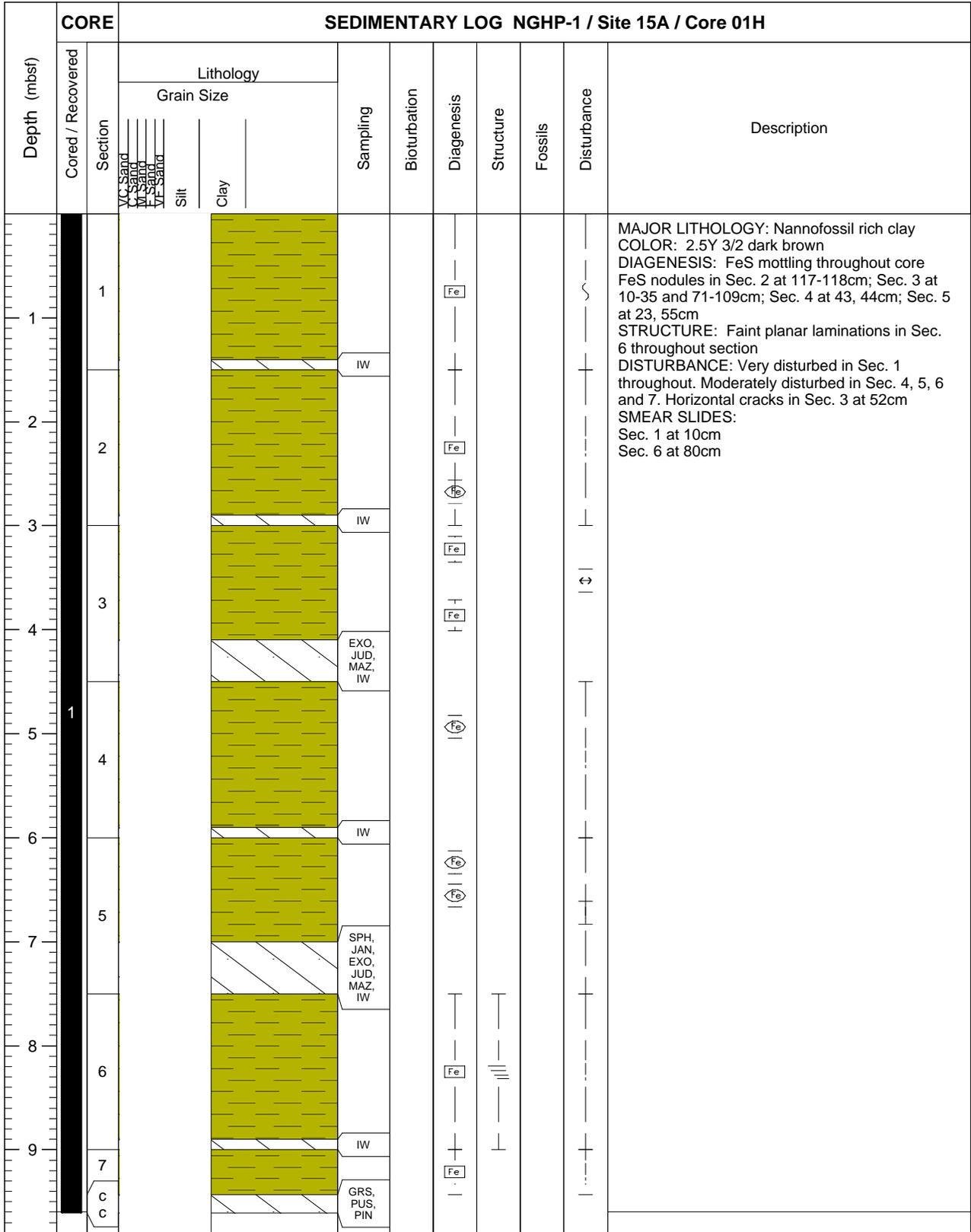


Fossils:

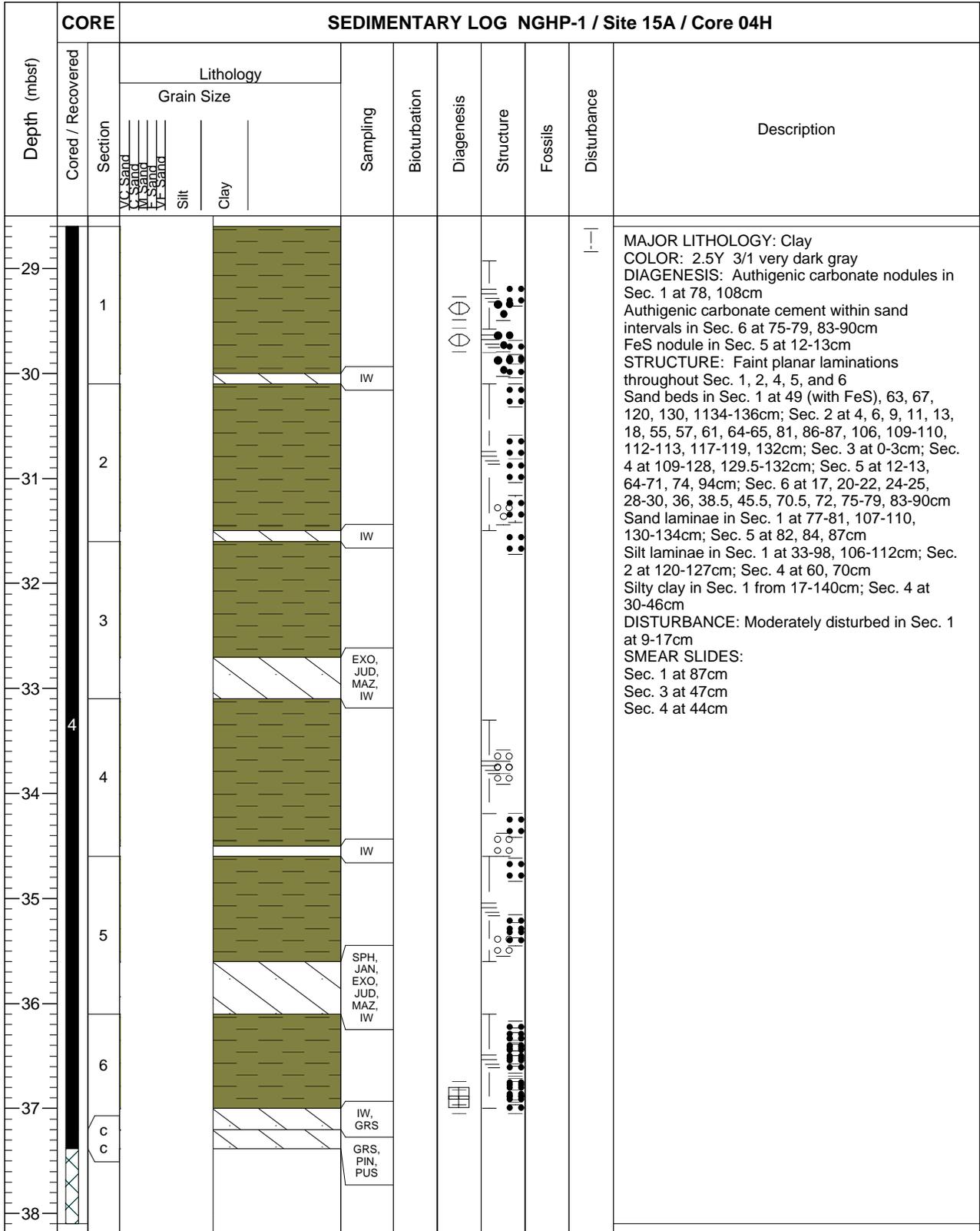


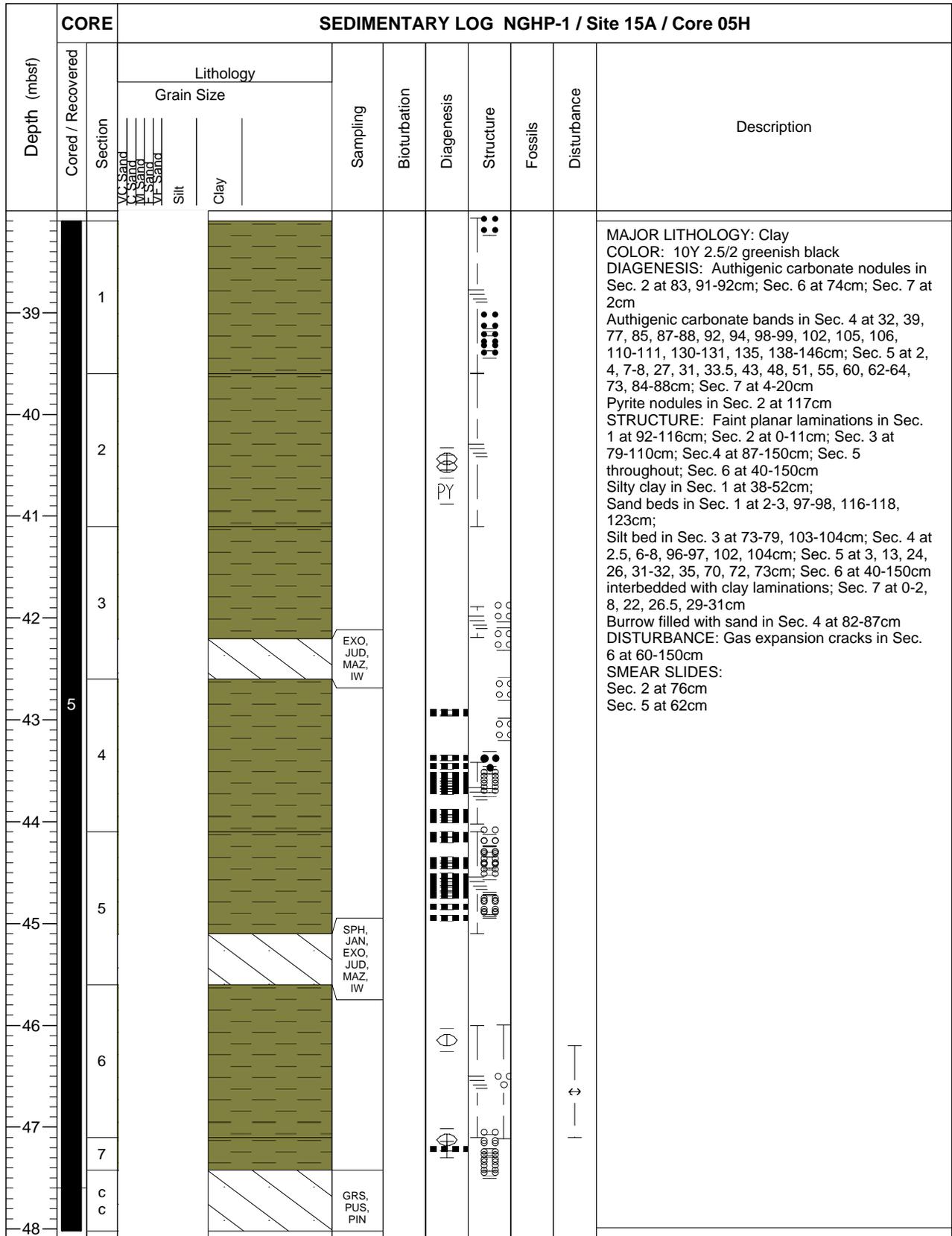
Disturbance:

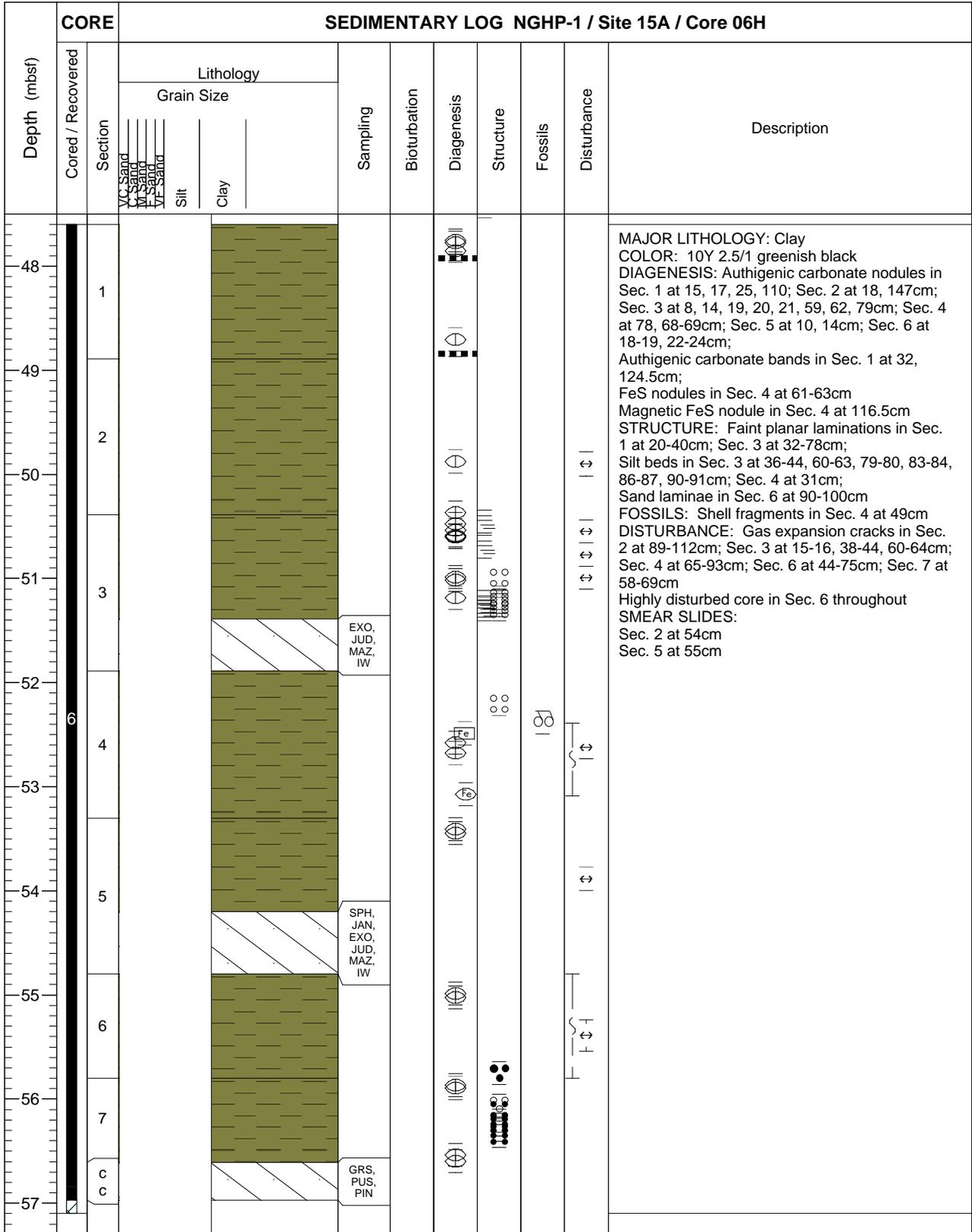


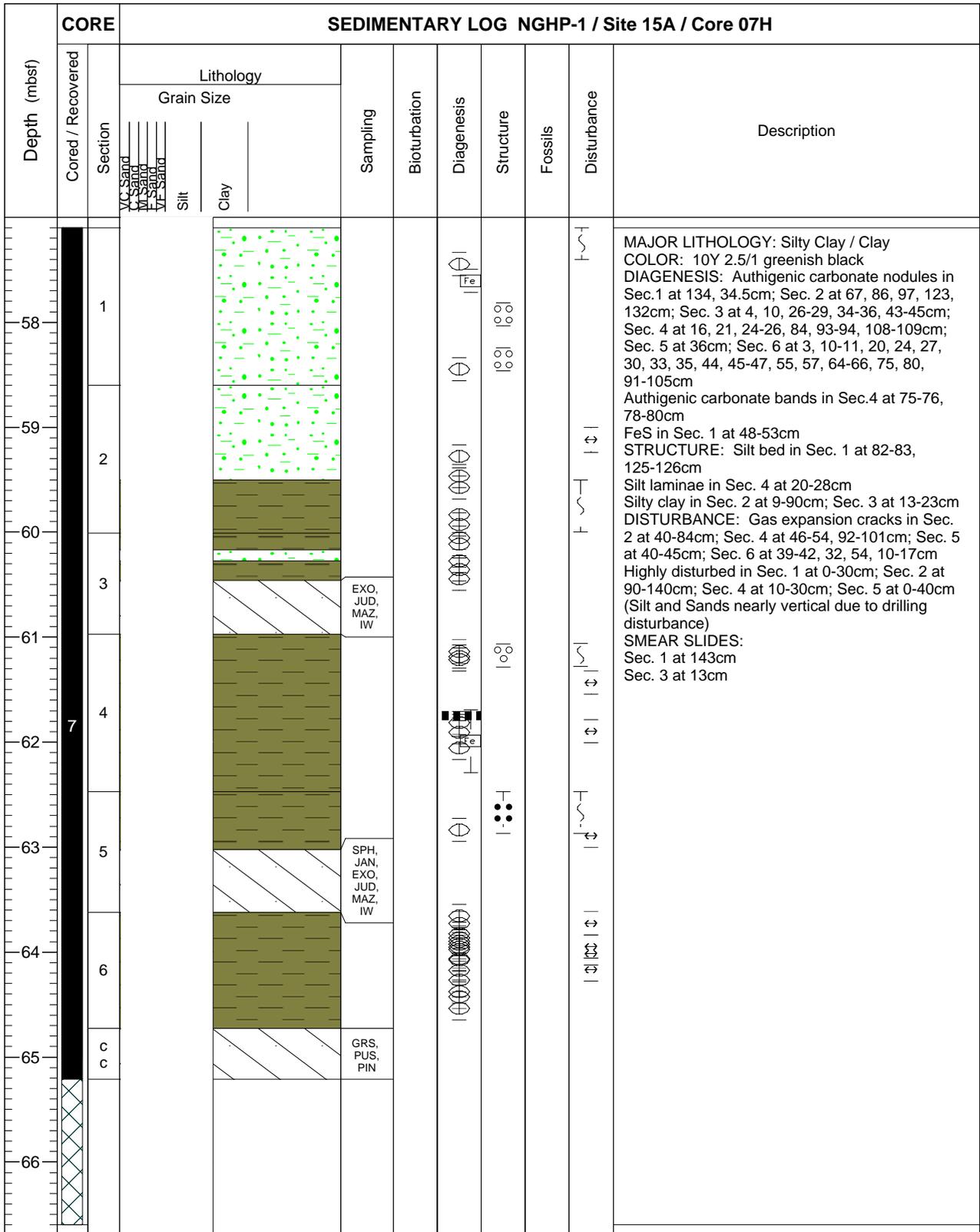


CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 03H								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	Clay							
20	1			IW		[Fe]	○○			MAJOR LITHOLOGY: Clay COLOR: 2.5Y 3/1 very dark grey DIAGENESIS: Iron monosulfides Sec. 1 at 85cm Sec. 4 at 59-63cm Authigenic carbonate nodules Sec. 5 at 10, 28cm Sec. 6 at 13cm Sec. 7 at 5, 11cm STRUCTURE: Faint planar laminations in Sec. 6 at 40-63, 122-140cm Silt laminae Sec. 1 at 110cm Sec. 4 at 88, 112, 113, 120cm Sec. 5 at 69-100cm Sec. 6 at 18-40, 63-66, 108, 115-121, 128-138cm Sec. 7 at 13-16, 20-26, 33cm Silty clay Sec. 1 at 50-107cm Sec. 2 at 0-10, 31-70, 100-102cm Sec. 3 at 0-12, 24-36, 48-76cm Sec. 4 at 34-36cm Sec. 7 at 0-6, 37-60cm Sand beds Sec. 5 at 85, 88cm Sec. 6 at 67, 70, 121cm Sec. 7 at 34cm FOSSILS: Woody debris in Sec. 3 at 99cm Shell fragments Sec. 3 at 89cm Sec. 4 at 11, 62cm DISTURBANCE: Very disturbed in Sec. 1 at 0-50cm SMEAR SLIDES: Sec. 1 at 123cm Sec. 2 at 59cm Sec. 2 at 67cm Sec. 4 at 59cm
21	2			IW						
22				IW						
23	3			IW				☉		
24	3			IW		[Fe]	○○	☉		
25	4			IW			○○	☉		
26	5			SPH, JAN, EXO, JUD, MAZ, IW			☉	☉		
27	6						☉	☉		
28	7			IW			☉	☉		
29	c			IW, GRS			☉	☉		
	c			GRS, PIN, PUS						

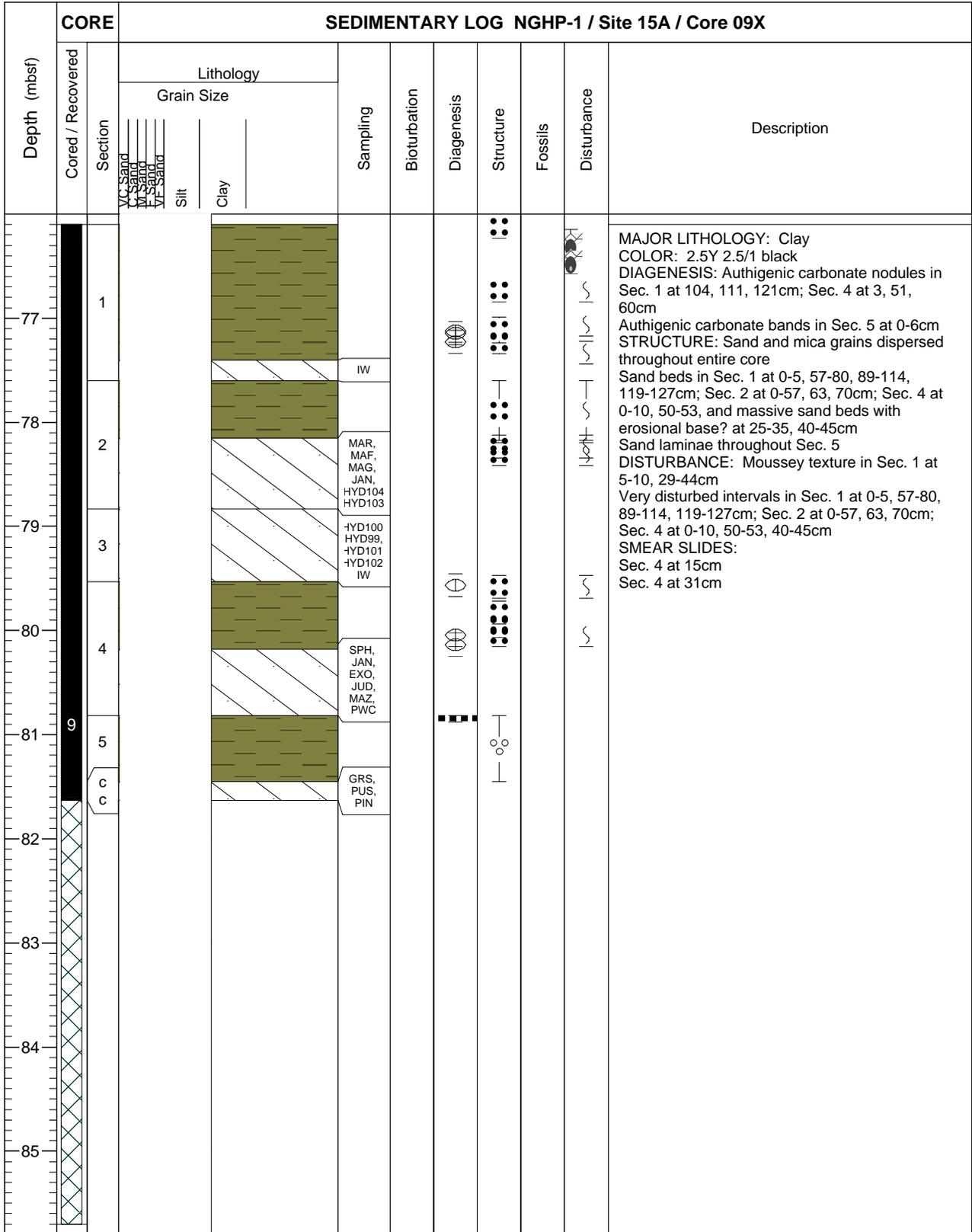






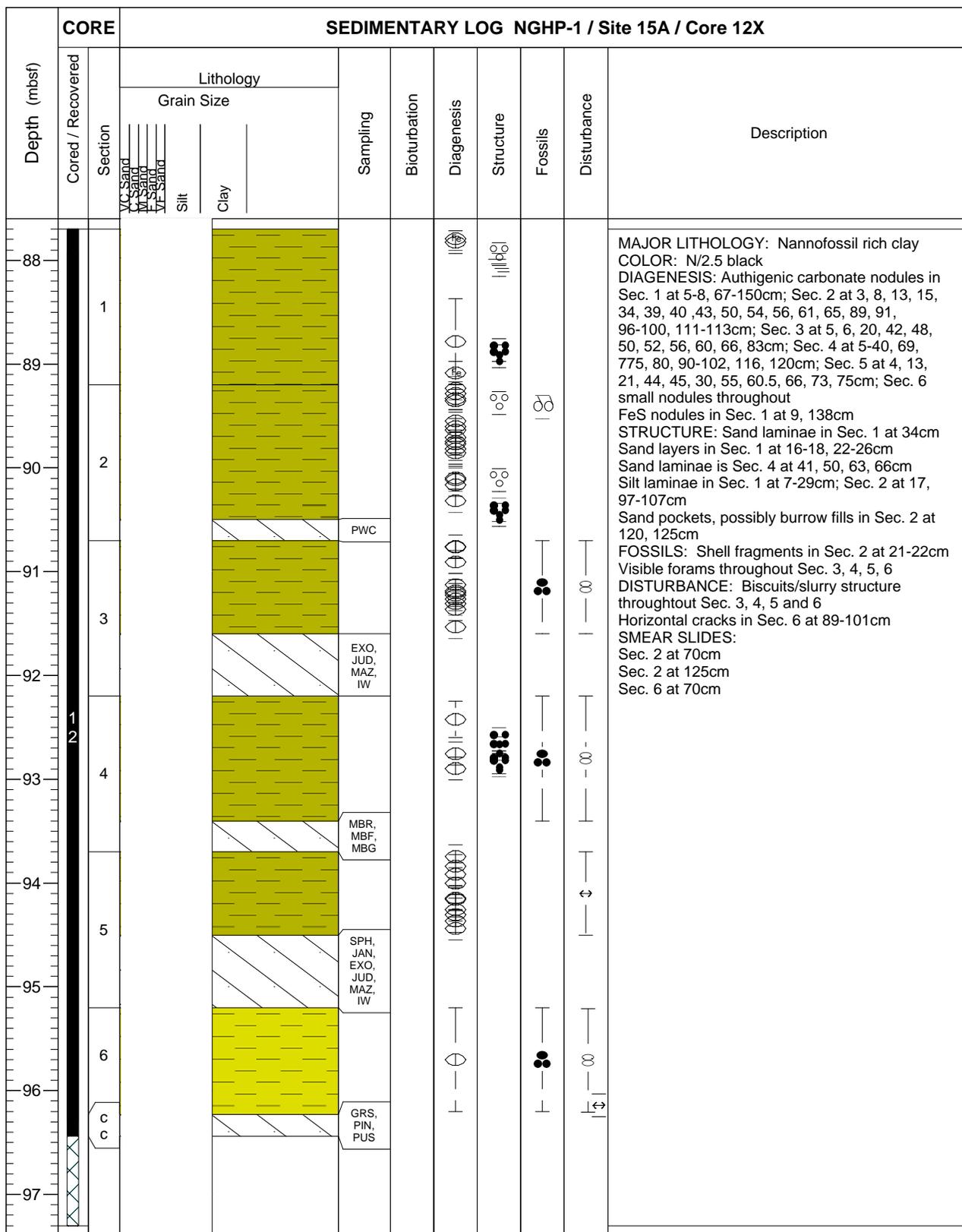


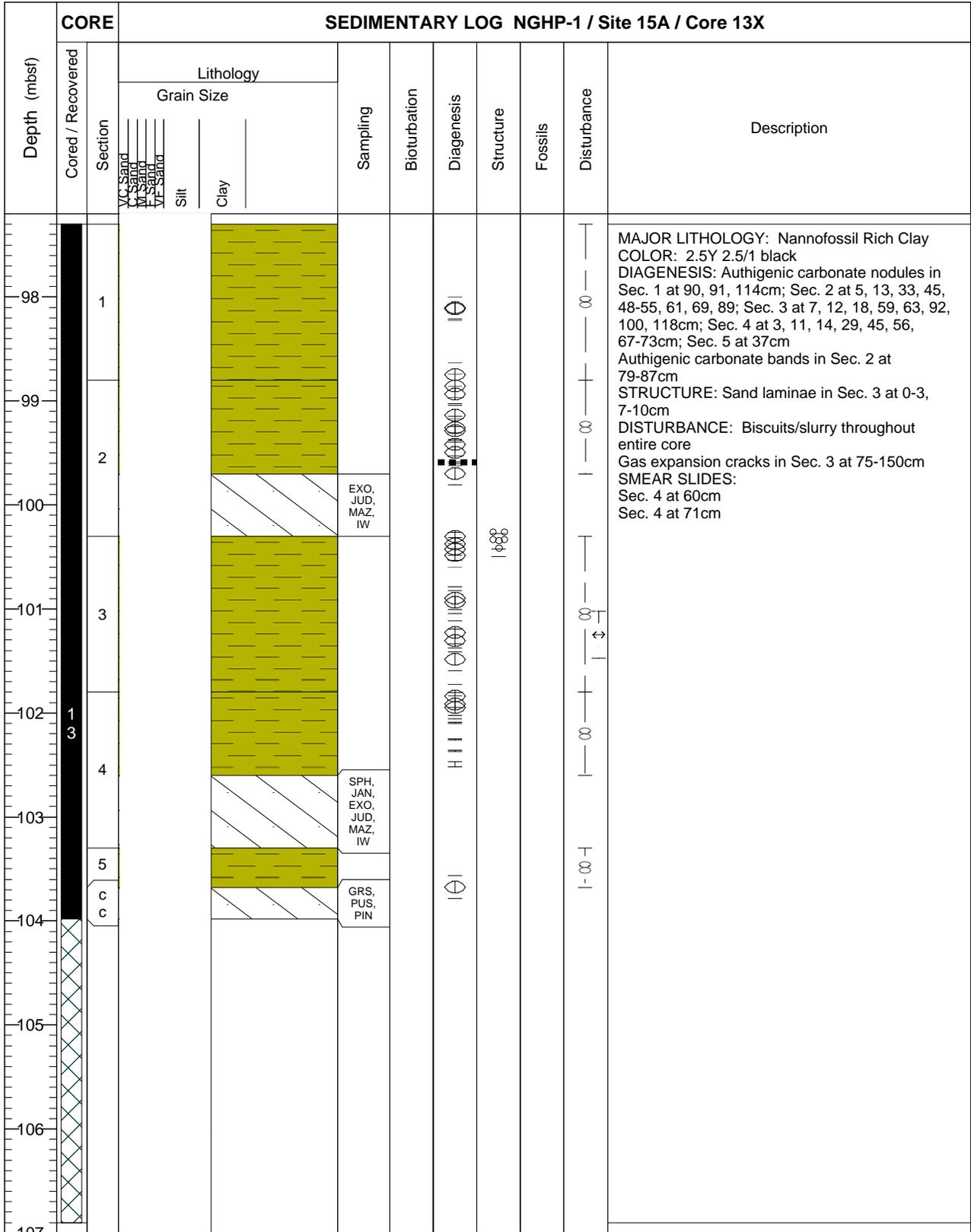
CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 08H								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand W Sand VF Sand	Silt Clay							
67	1									<p>MAJOR LITHOLOGY: Silty Clay COLOR: 2.5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules in Sec. 1 at 37, 46cm; Sec. 6 at 17, 32cm; Authigenic carbonate bands in Sec. 4 at 67cm; Sec. 5 at 14, 28cm STRUCTURE: Sand/Silt Laminae in Sec. 1 at 72-143cm; Sec. 2 throughout; Sec. 3 throughout; Sand beds in Sec. 1 at 90, 100-101cm; Sec. 4 at 51, 61, 78cm; Sec. 5 at 13, 66cm; Sec. 6 at 19, 59-63cm Sand filled burrows or highly disturbed sand beds in Sec. 7 SMEAR SLIDES: Sec. 4 at 55cm Sec. 4 at 61cm</p>
68	2									
69	3									
70	4			PWC						
71	5			EXO, JUD, MAZ, IW						
72	6			SPH, JAN, EXO, JUD, MAZ, IW						
73	7									
74	c			GRS, PIN, PUS						
75	c									
76										



Depth (mbfs)	CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 10P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
86			VC Sand								No core recovered
			VC Sand								
			VC Sand								
			VC Sand								
			VC Sand								
			Silt								
			Clay								

CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 11Y									
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							
87	1	1									<p>MAJOR LITHOLOGY: Clay MINOR LITHOLOGY: Sand and wood-rich organics COLOR: 5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules 3-4, 8.5, 22, 54cm Authigenic carbonate bands 47-53, 57-67cm STRUCTURE: ~20 degrees inclined laminations throughout core Silt beds at 20-24cm Sand beds at 40-44, 67-74, 80-85cm Wood rich organic layer at 80-85cm DISTURBANCE: Gas expansion cracks at 12-15, 78-80cm. SMEAR SLIDES: Sec. 1 at 36, 83, 75cm</p>
88											



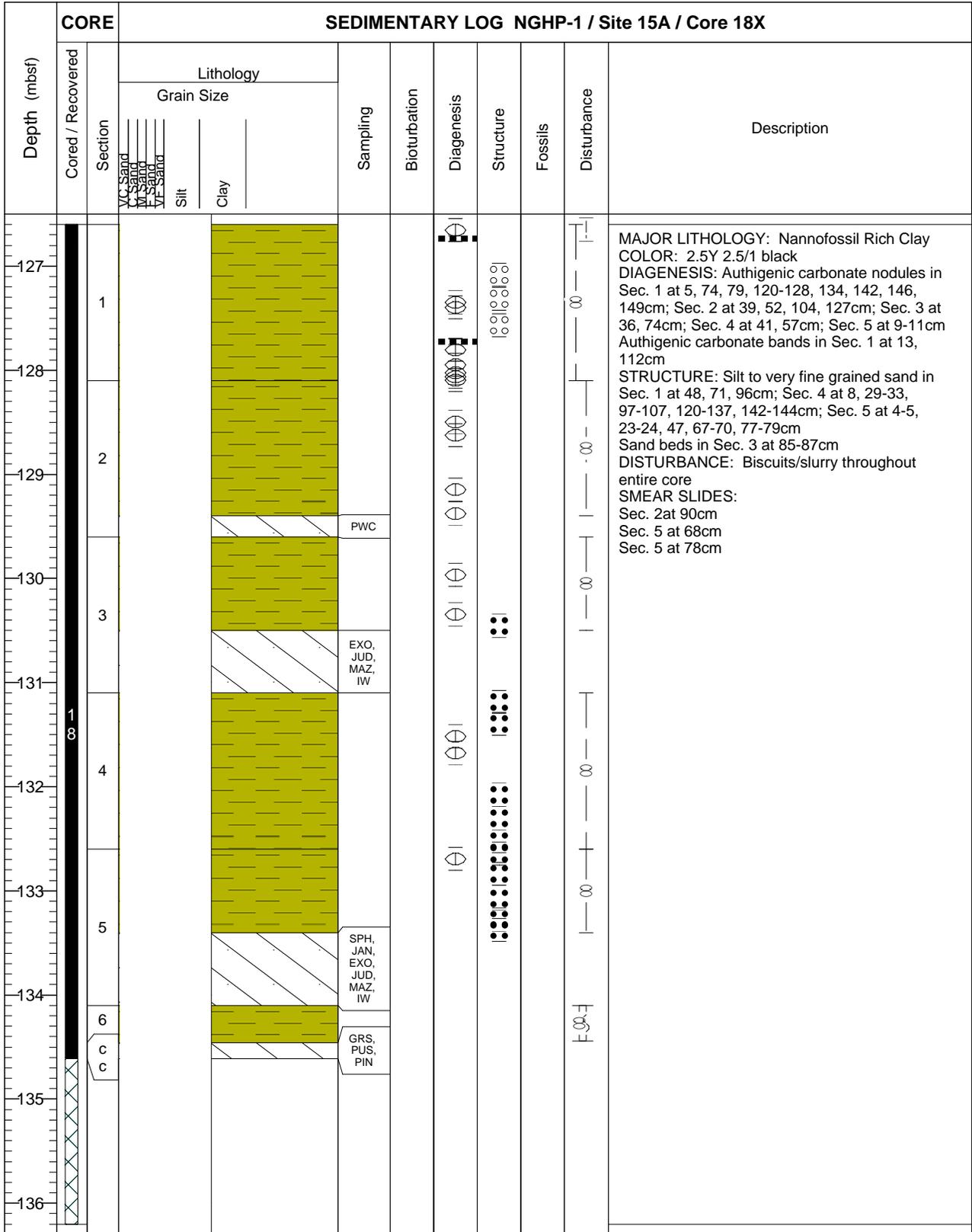


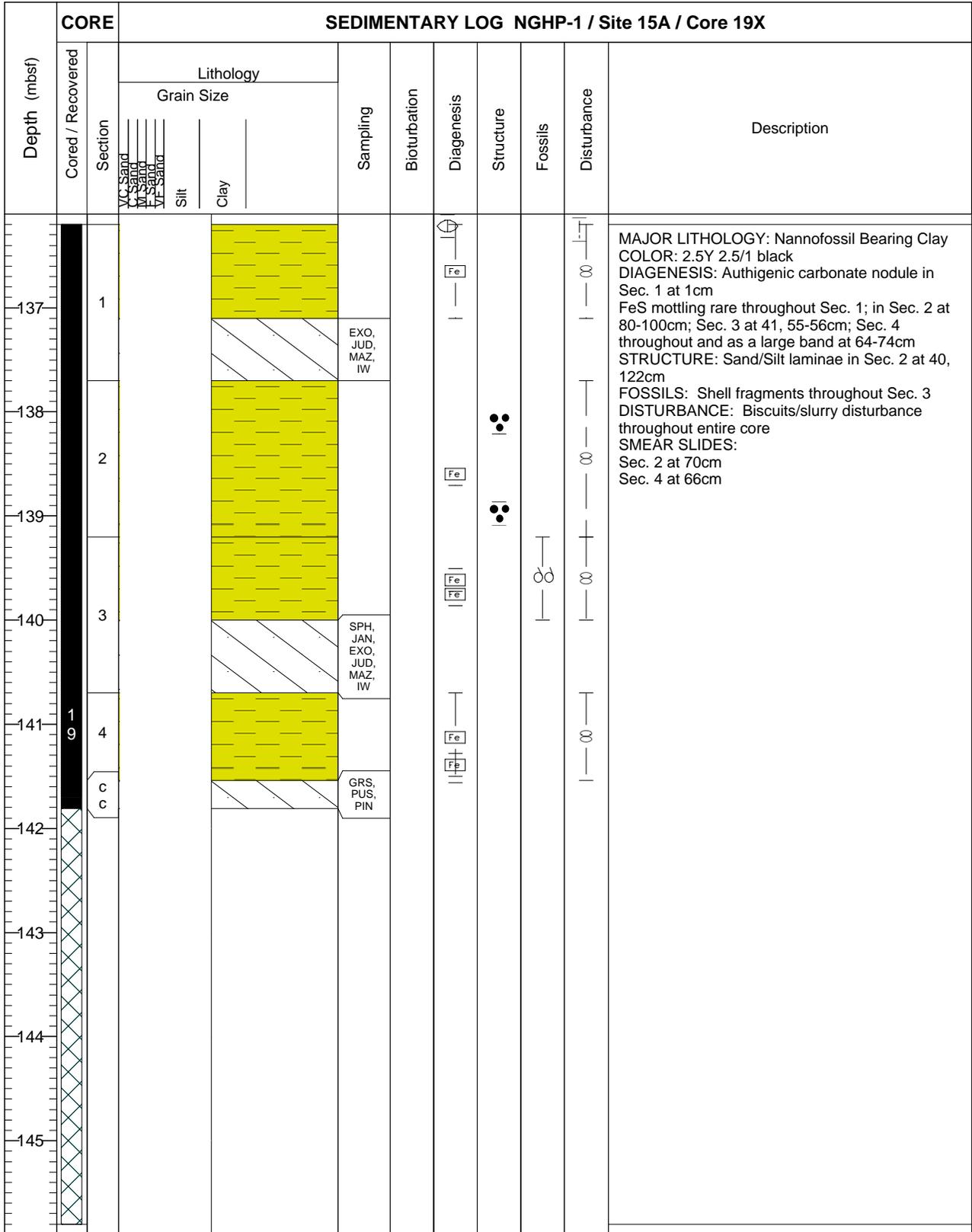
Depth (mbsf)	CORE SEDIMENTARY LOG NGHP-1 / Site 15A / Core 14X										
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand	Clay							
107		1									<p>MAJOR LITHOLOGY: Nannofossil Rich Silty Clay COLOR: 2.5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules in Sec. 2 at 6, 10, 19, 22, 26cm; Sec. 3 at 29, 60-66cm; Sec. 6 at 10-45cm Authigenic carbonate bands in Sec. 2 at 103-105, 122-123cm; Sec. 3 at 5cm STRUCTURE: Sand laminae in Sec. 2 at 68cm Sand burrow in Sec. 3 at 73cm FOSSILS: Shell fragments in Sec. 1 at 52cm; Sec. 2 at 32, 129cm; Sec. 3 at 11cm; Sec. 4 at 83cm DISTURBANCE: Biscuits/slurry disturbance throughout entire core SMEAR SLIDES: Sec. 1 at 70cm Sec. 6 at 70cm</p>
108											
109		2									
110											
111	1	3									
111	4				EXO, JUD, MAZ, IW						
112		4									
113		5			SPH, JAN, EXO, JUD, MAZ, IW						
114		6									
114	c				GRS, PUS, PIN						
115	c										

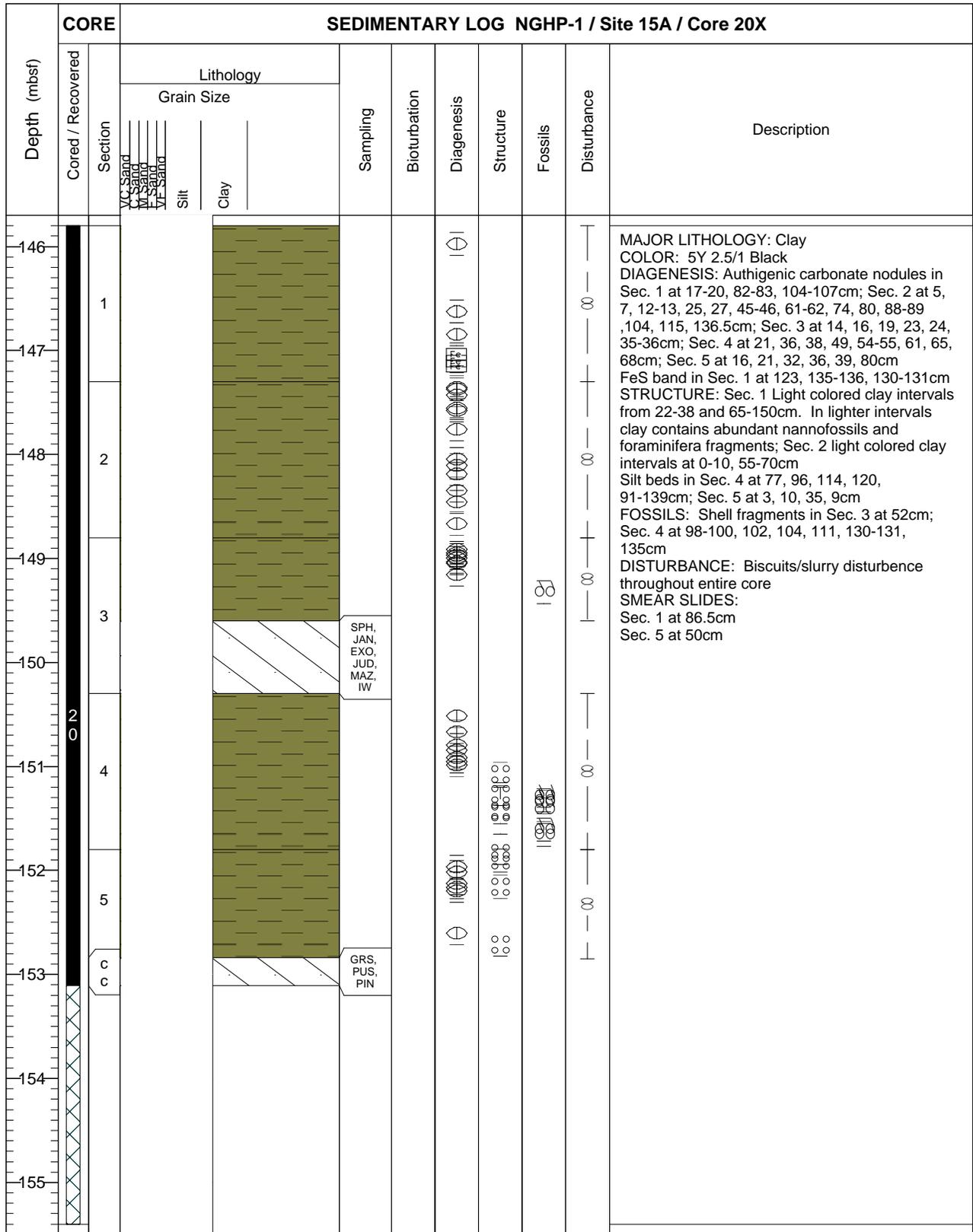
Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 16Y							Description		
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance	
			Grain Size									
			VC Sand									
			U Sand									
			M Sand									
			VF Sand									
			Silt									
			Clay									
116	1 6	1										
117												

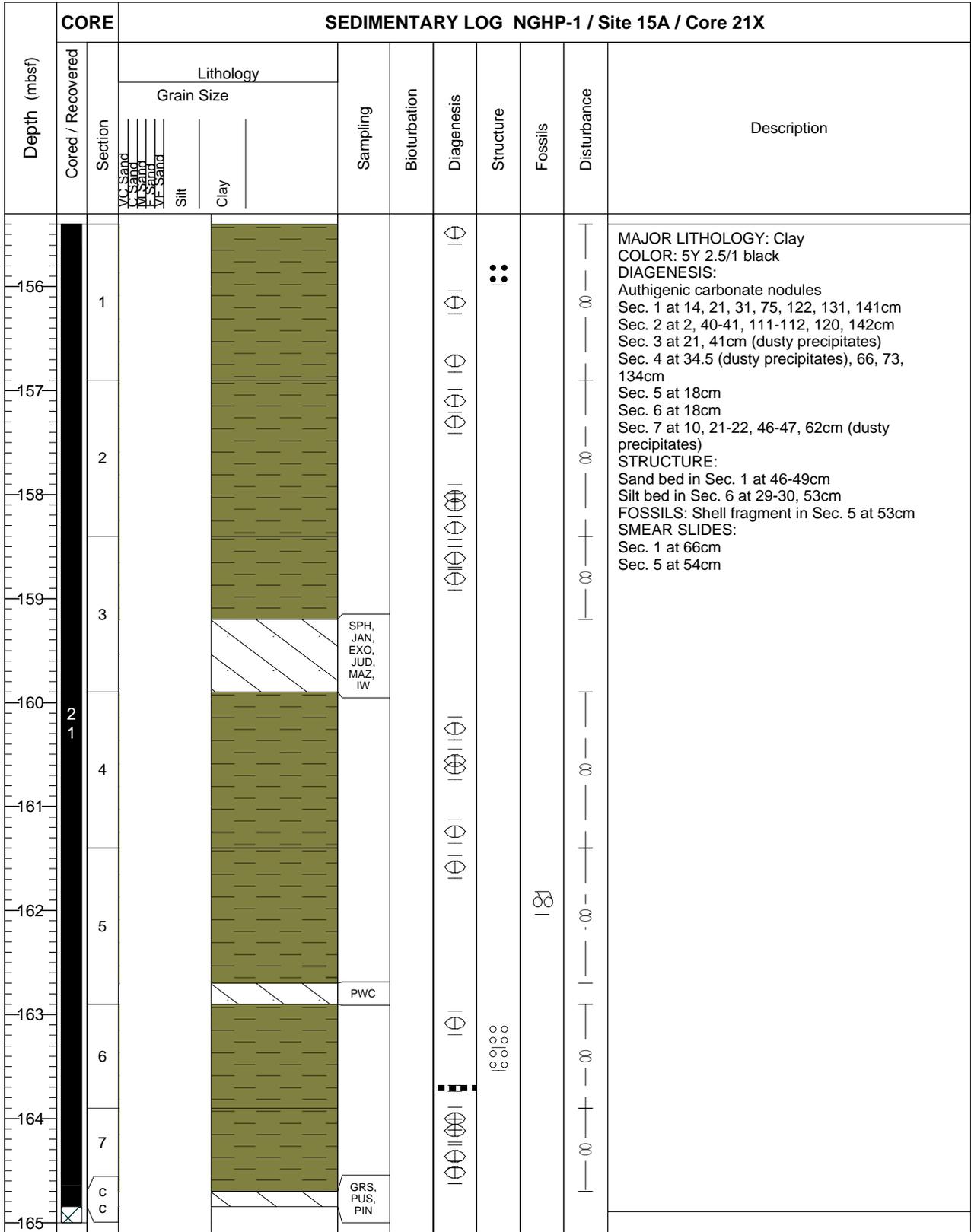
MAJOR LITHOLOGY: Silty clay
 COLOR: 5Y 2.5/1 black
 DIAGENESIS:
 Authigenic carbonate bands at 20-22, 26-27, 36-37, 71.5, 77cm
 Authigenic carbonate nodules at 12-13, 43, 53.5, 58-59, 62-63, 66.5, 81-82cm
 DISTURBANCE: Gas expansion cracks at 75-77cm
 SMEAR SLIDE:
 Sec. 1 at 65cm

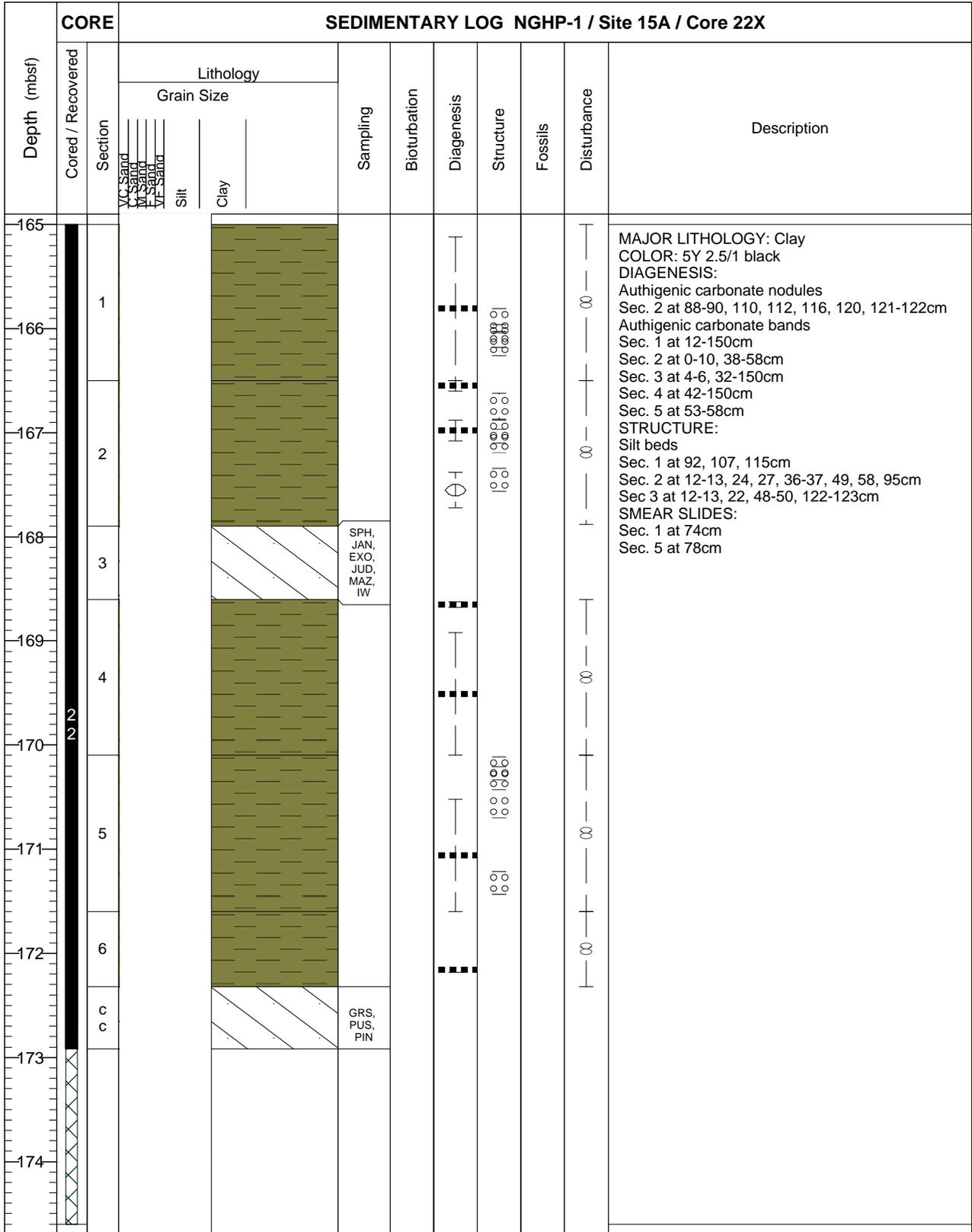
CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 17X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand V Sand IV Sand VF Sand	Silt Clay							
117	1	1									<p>MAJOR LITHOLOGY: Nannofossil Rich Clay COLOR: 2.5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules in Sec. 1 at 0-5, 21, 25, 29-34cm; Sec.2 at 6, 18, 47, 74cm; Sec. 3 at 4, 8, 17, 26, 34, 45, 50, 61, 72cm; Sec. 4 at 36cm Authigenic carbonate nodules in strings in Sec. 2 at 9, 34, 60, 80cm; Sec. 3 at 67, 92cm Authigenic carbonate bands in Sec. 3 at 110, 137, 147cm; Sec. 4 at 17, 27, 29-30cm SMEAR SLIDES: Sec. 3 at 109cm Sec. 3 at 108cm</p>
118	2	2			EXO, JUD, MAZ, IW						
119	3	3									
120	4	4									
121	c	c			IW GRS, PUS, PIN						
122											
123											
124											
125											
126											



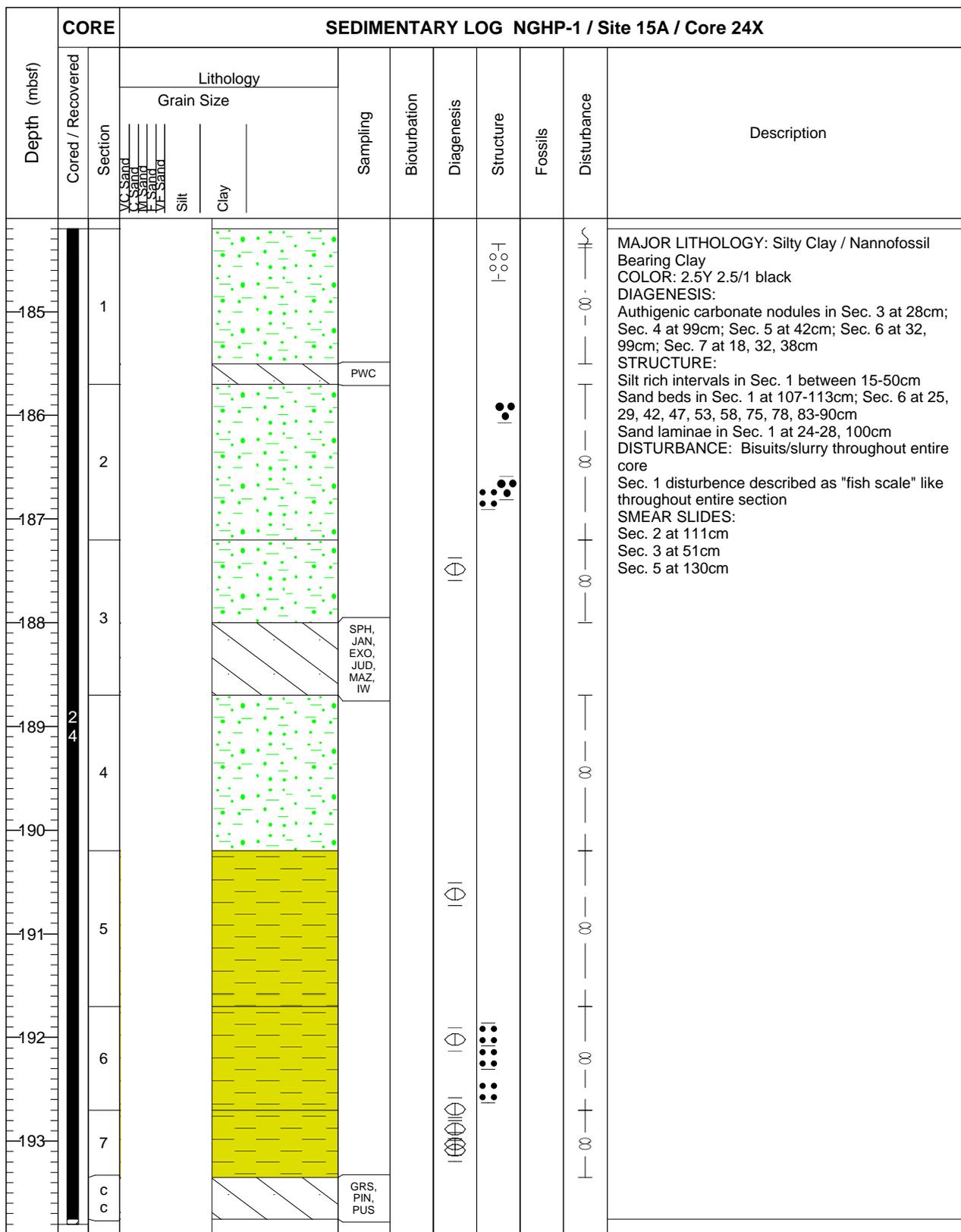








CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 23X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	W Sand	VF Sand	Silt	Clay				
175	1									<p>MAJOR LITHOLOGY: Clay COLOR: 5Y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules Sec. 2 at 14, 19, 25, 29, 90, 104cm Sec. 4 at 121, 123, 130cm Sec. 7 at 43cm Authigenic carbonate bands Sec. 5 at 66cm STRUCTURE: Silt beds Sec. 2 at 12, 23-24, 33, 40, 87, 105, 124-125cm Sec. 5 at 92, 112, 113cm Sec. 6 at 12, 79, 80, 81, 84, 86, 104, 107, 114cm Sand beds Sec. 2 at 44, 54-55, 141-143, 145cm Sec. 3 at 9-10cm Sec. 4 at 30-31, 37, 42, 50-51, 130cm Sec. 5 at 10-11cm Sec. 6 at 88-89cm Sec. 7 at 112cm Silty clay in Sec. 3 at 0-48cm FOSSILS: Woody debris in Sec. 2 at 45.5, 54cm SMEAR SLIDES: Sec. 2 at 46 and 78cm Sec. 4 at 31cm Sec. 5 at 68cm</p>
176	2									
177	3									
178	4									
179	2 3									
180	5									
181	6									
182	7									
183										
184	c c									



CORE		SEDIMENTARY LOG NGHP-1 / Site 15A / Core 25X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	VC Sand							
		W Sand	W Sand							
		VF Sand	VF Sand							
		Silt								
		Clay								
194	1									<p>MAJOR LITHOLOGY: Nannofossil Bearing Silty Clay COLOR: 2.5y 2.5/1 black DIAGENESIS: Authigenic carbonate nodules in Sec. 1 at 144-145cm; Sec. 2 at 43cm Authigenic carbonate bands throughout Sec. 3 STRUCTURE: Sand and Silt laminae in Sec. 1 at 52, 57, 91, 102, 106-110, 113, 133cm DISTURBANCE: Biscuits/slurry structure throughout entire core SMEAR SLIDES: Sec. 1 at 57cm Sec. 1 at 140cm Sec. 2 at 100cm</p>
195										
196	2			SPH, JAN, EXO, JUD, MAZ, IW						
197	3									
198	c c			GRS, PIN, PUS						
199										
200										