

# NGHP - Expedition 1

## Cored Interval - Site 19 - Hole A

Seafloor 1434 (m)

### Barrel Sheet Key

#### Lithology:

Glaucinite Rich Clay	Clay
Glaucinite Bearing Clay	Nannofossil Rich Clay
Nannofossil and Glaucinite Rich Clay	Nannofossil Bearing Clay
Nannofossil Rich Glaucinite Bearing Clay	Foram and Nannofossil Bearing Clay
Bisiliceous Bearing Clay	Foram Rich Nannofossil Bearing Clay
Nannofossil Rich Bisiliceous Bearing Clay	Nannofossil Rich Foram Bearing Clay
Bisiliceous and Nannofossil Bearing Clay	Biosiliceous Bearing Clay Rich Nannofossil Ooze
Pyrite Rich Clay	Foraminifera Bearing Nannofossil Ooze
Nannofossil Rich Pyrite Bearing Clay	Foraminifera and Clay Rich Nannofossil Ooze
Foraminifera Rich, Plant, Pyrite & Clay Bearing Nannofossil Ooze	Foraminifera and Clay Bearing Nannofossil Ooze
Pyrite Bearing Dolomite Silt	Nannofossil Ooze
Volcanic Glass and Pyrite Bearing Clay	Foraminifera and Aragonite Bearing Clay
Volcanic Glass Bearing Clay	Nannofossil Rich Foram and Authigenic Carbonate Bearing Clay
Volcanic Glass Rich Clay	Nannofossil Rich Foram and Plant Debris Bearing Clay
Volcanic Ash	Nannofossil and Plant Debris Bearing Clay
Catwalk Sampled Core	Nannofossil and Volcanic Glass Bearing Clay

#### Cored & Recovered:

Core Recovery

Cored Interval No Recovery

#### Fossils:

Shell Fragments

Foraminifera

Woody Debris

Mollusk

#### Diagenesis:

Pyrite

FeS

FeS Nodule

#### Authigenic Carbonate Micro-Nodule

#### Disturbance:

Mousety

Expansion Cracks

Moderately Disturbed

Very Disturbed

Biscuit & Slurry

#### Structures:

Fracture

Planar Lamination

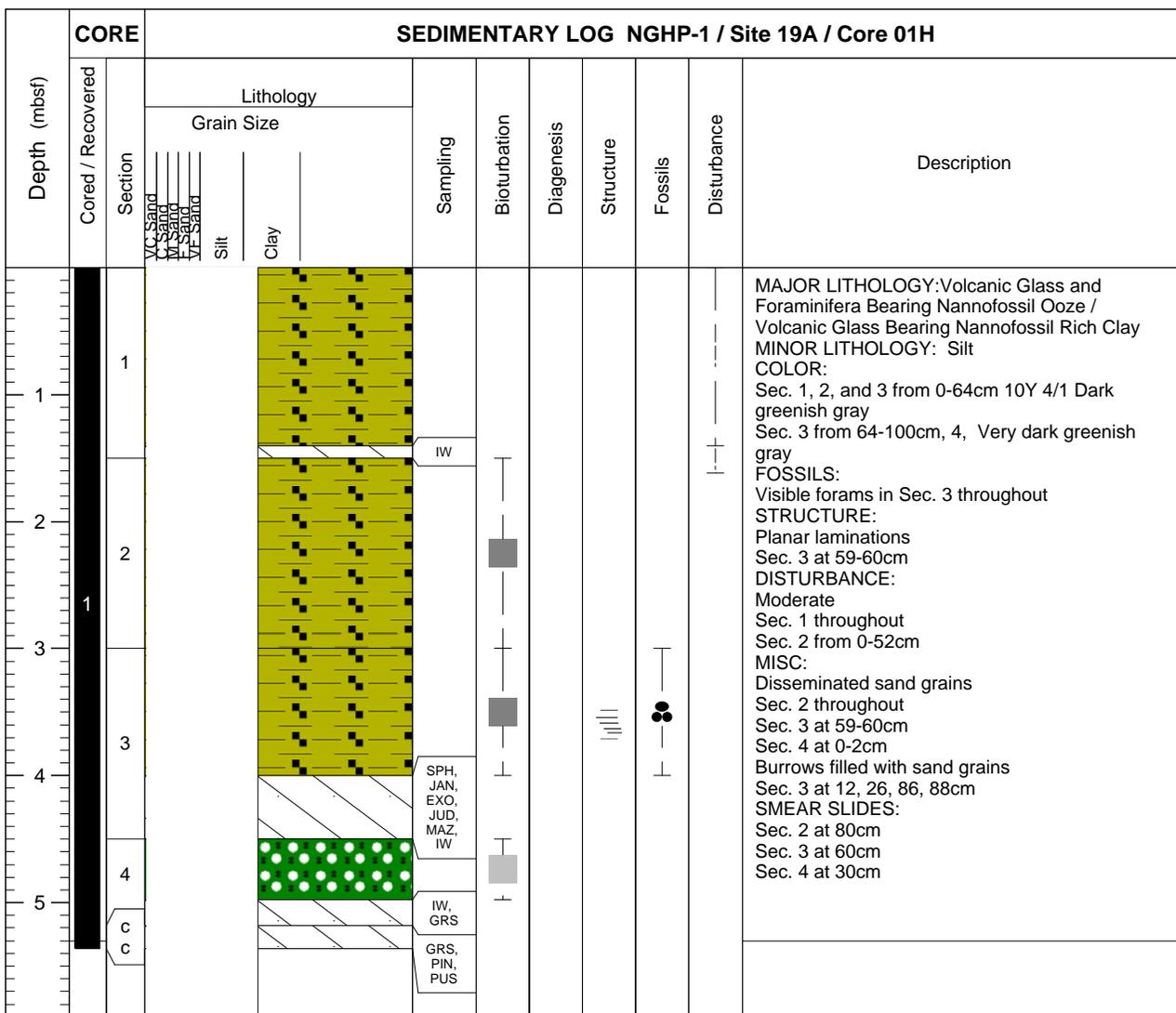
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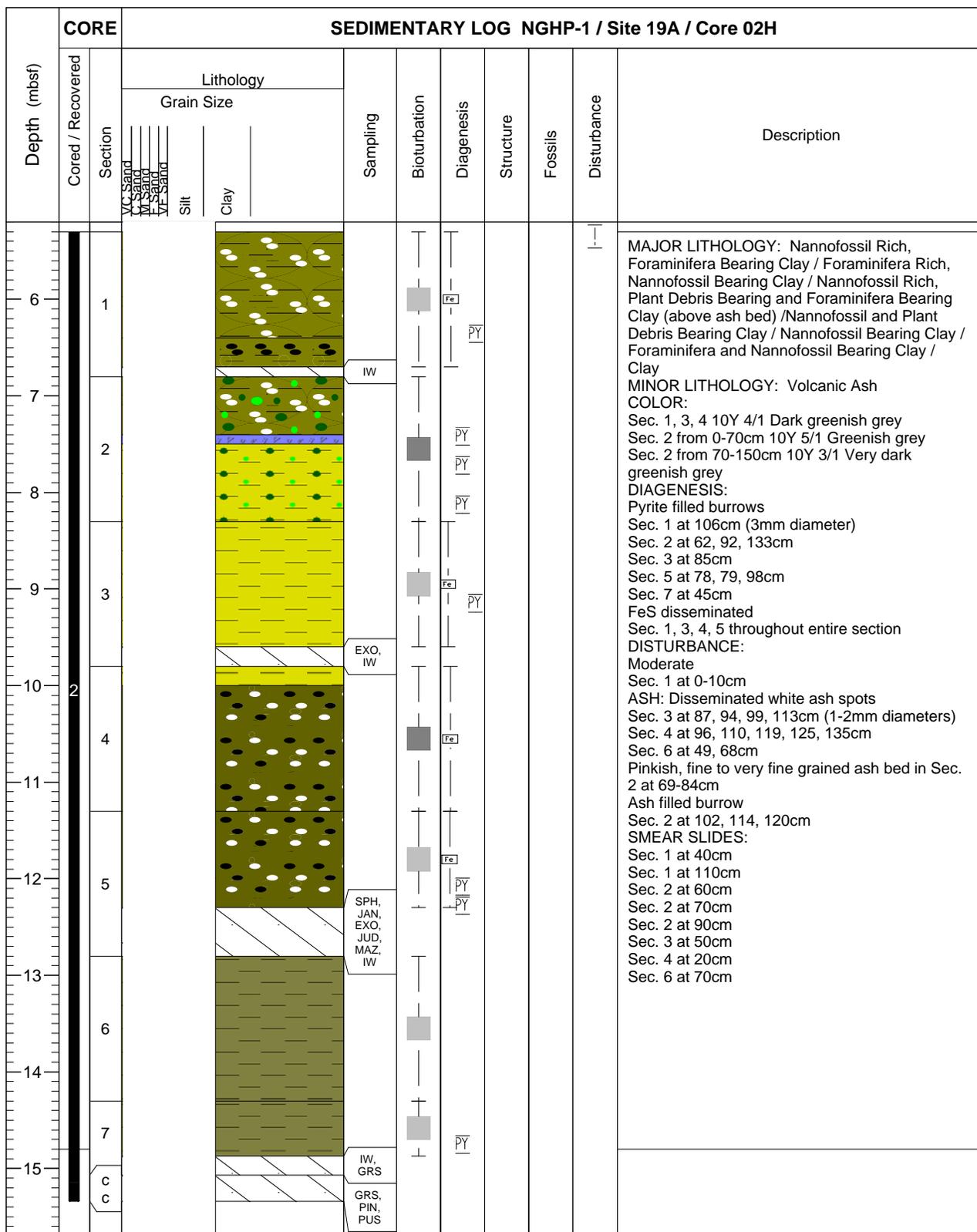
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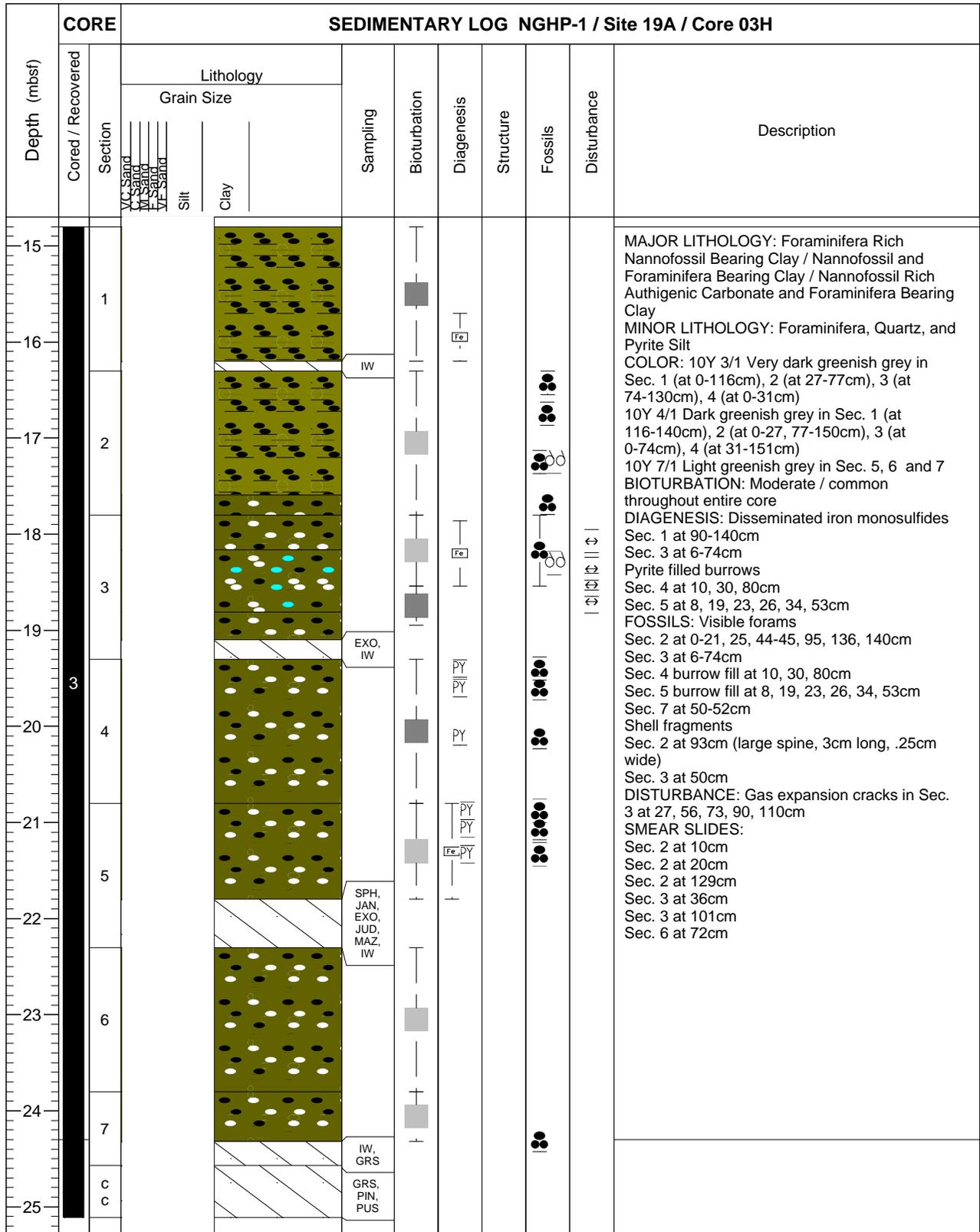
Common

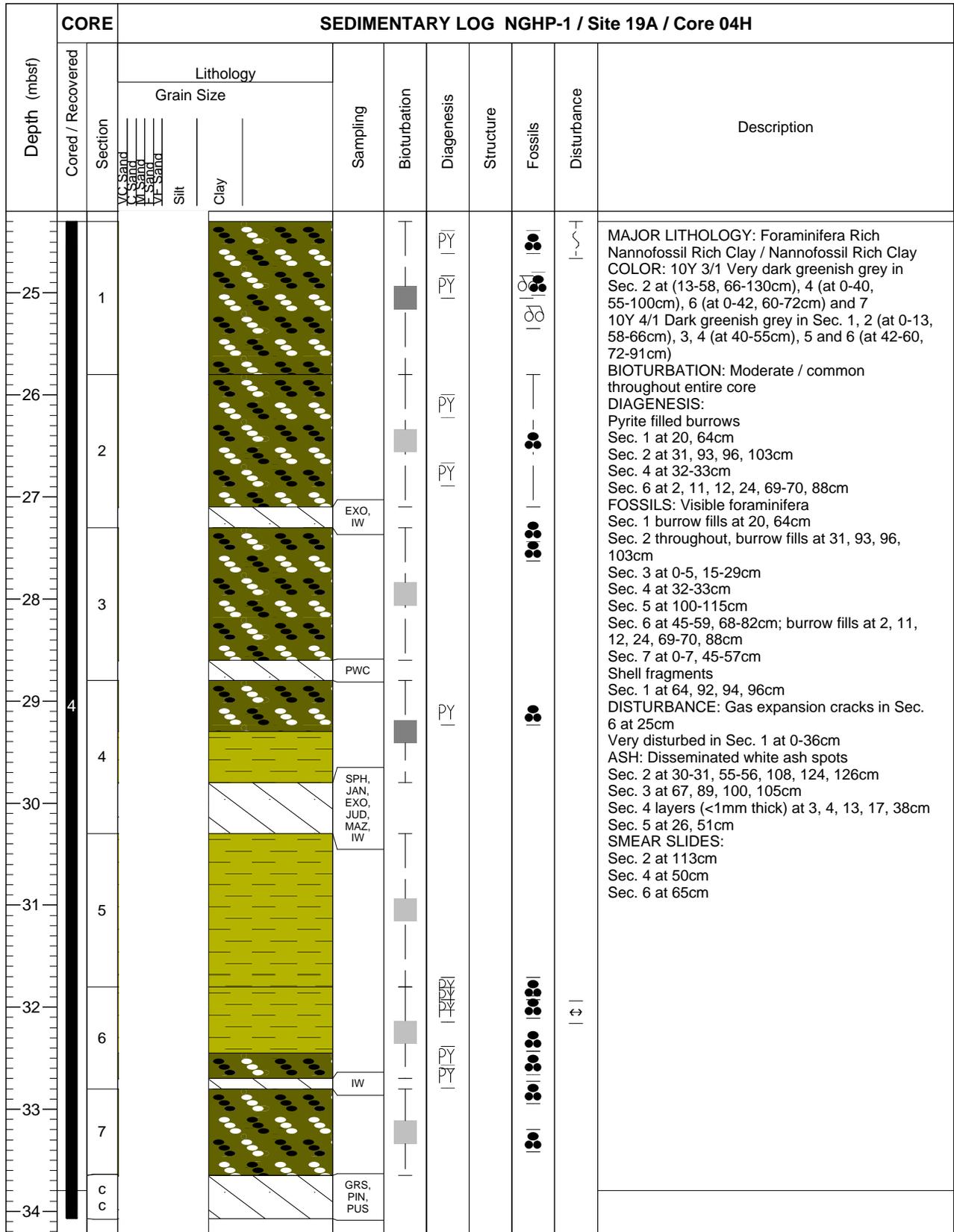
Moderate

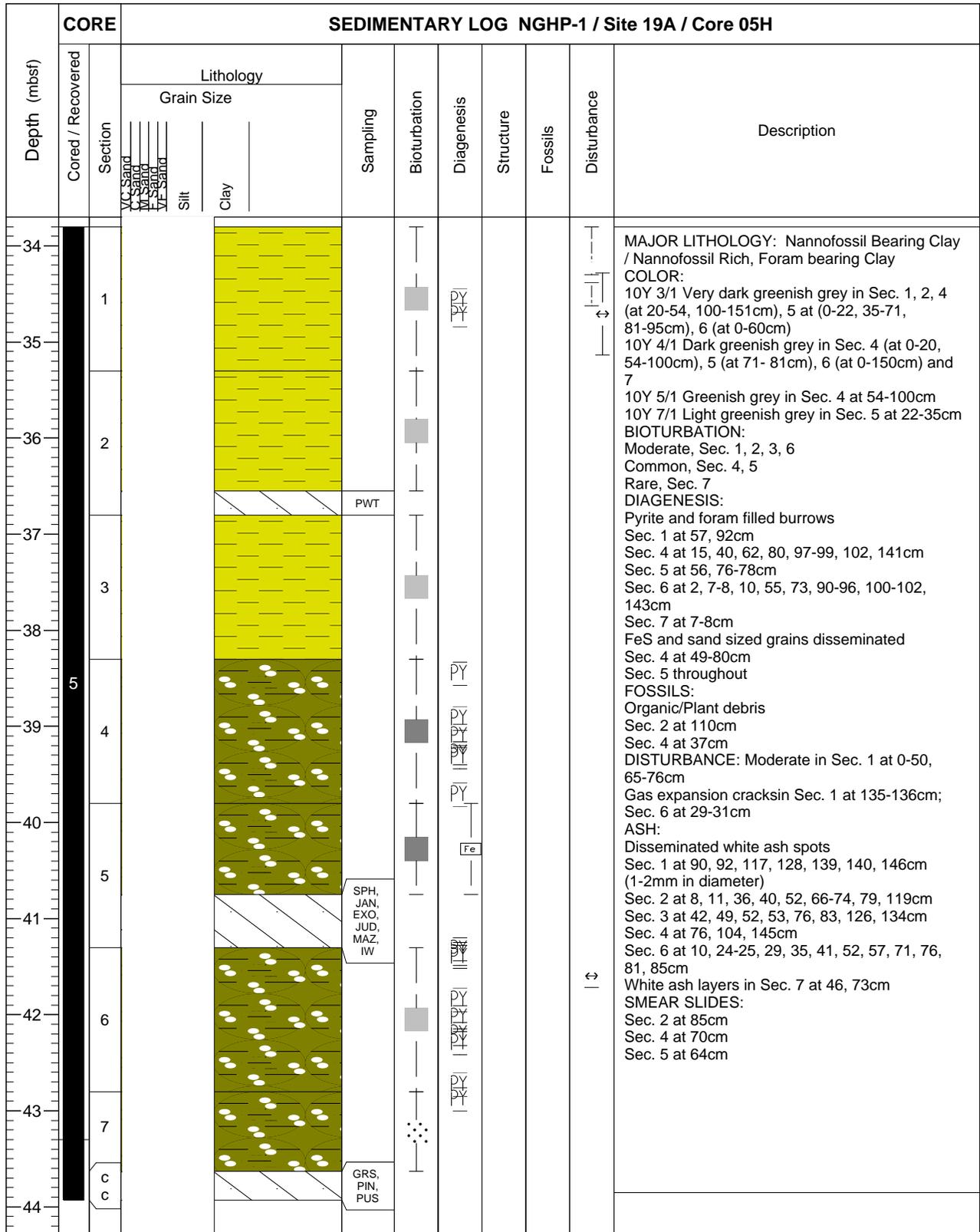
Abundant

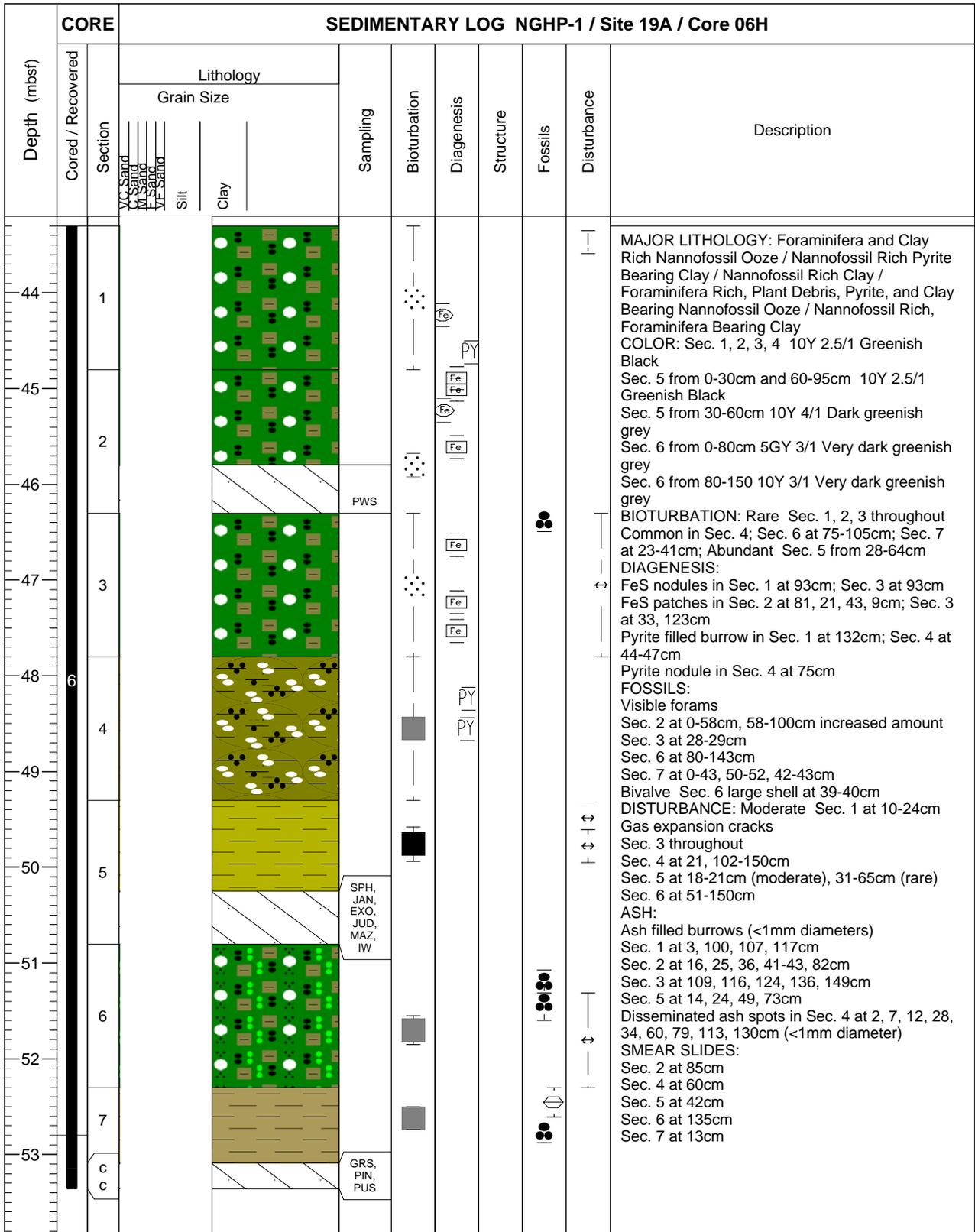


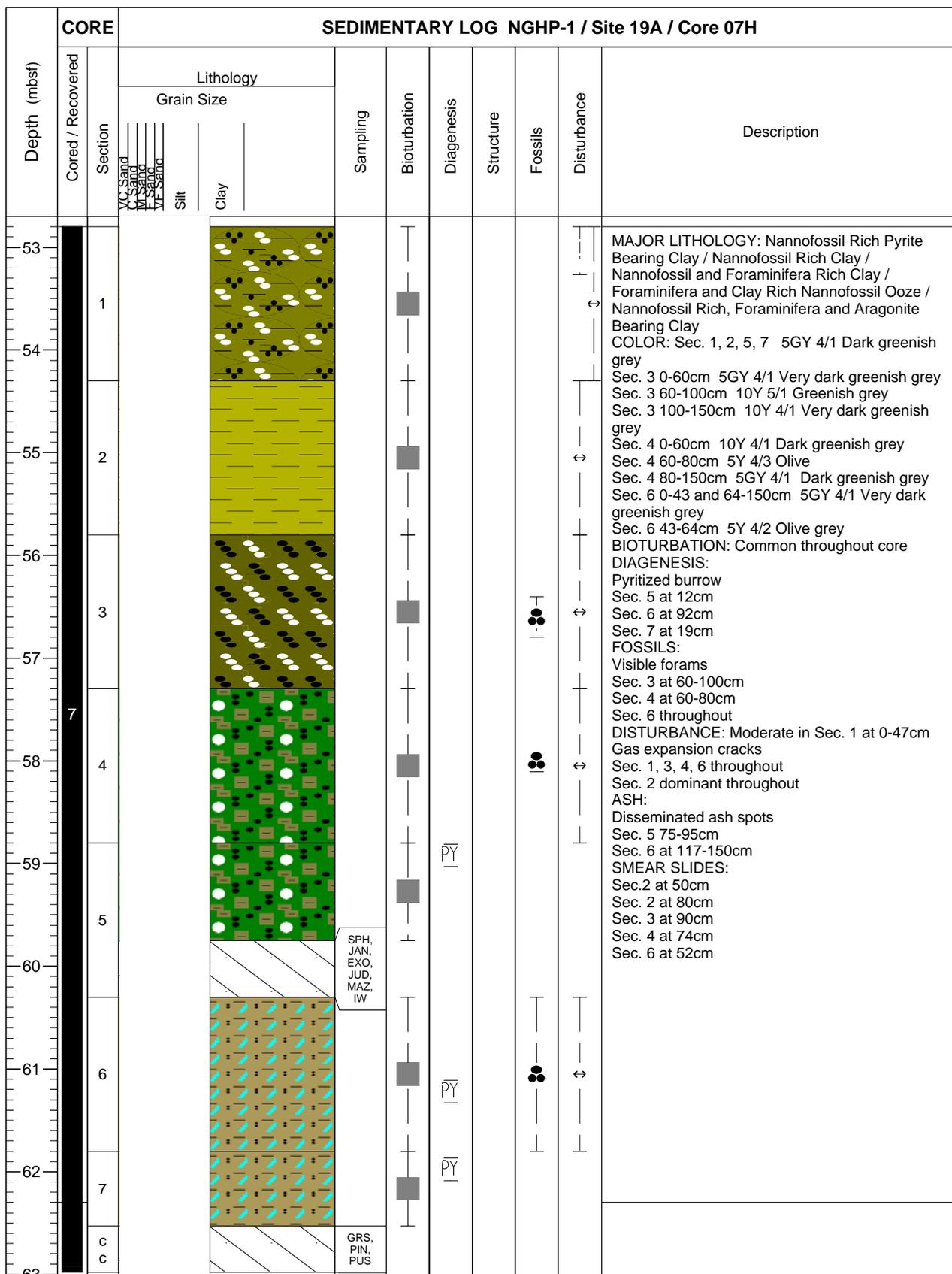


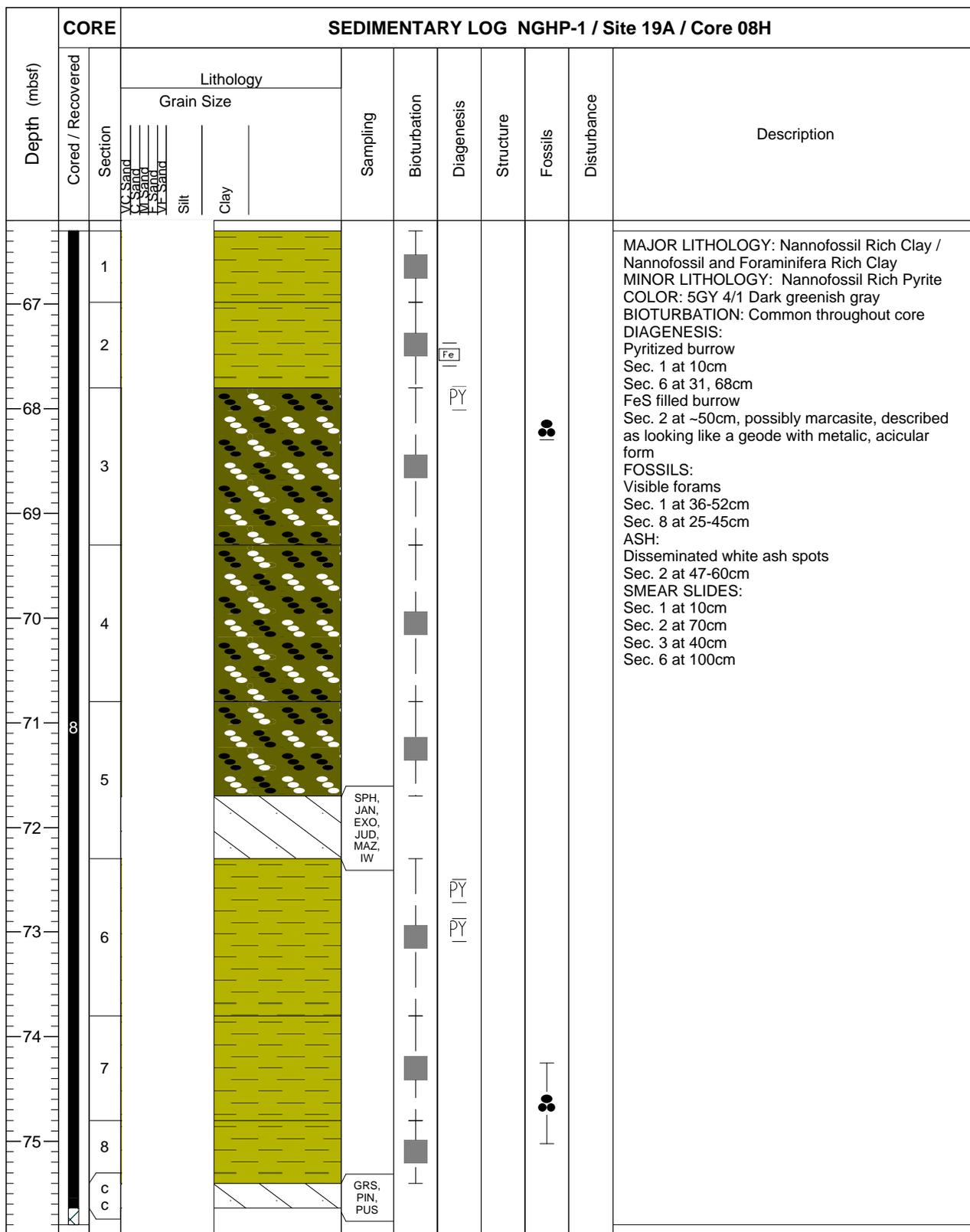










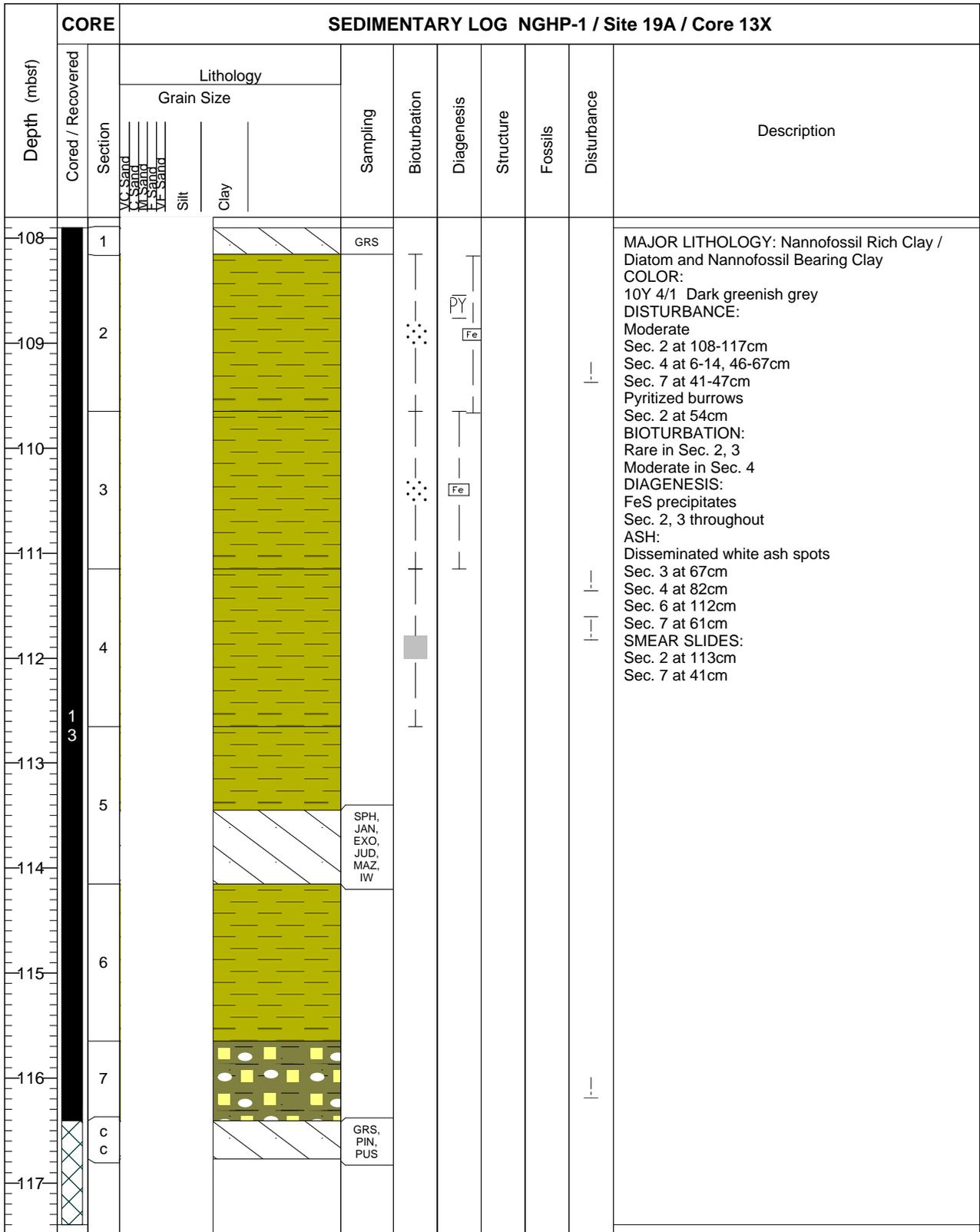


CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 09H								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	VC Sand							
		VC Sand	VC Sand							
		VC Sand	VC Sand							
		VC Sand	VC Sand							
		Silt	Clay							
76	1									<p><b>MAJOR LITHOLOGY:</b> Pyrite Rich Clay / Nannofossil Ooze/ Volcanic Glass Rich Clay  <b>COLOR:</b>            Sec. 1, 2, 3 5GY 4/1 Dark greenish grey            Sec. 4 from 0-60cm 5GY 4/1 Dark greenish grey            Sec. 4 from 60-150 cm 10GY 4/1 Dark greenish grey            Sec. 5, 6 10Y 4/1 Dark greenish grey  <b>BIOTURBATION:</b>            Common throughout Sec. 1            Abundant in Sec. 2 at 0-90cm and Sec. 3 at 0-60cm  <b>DIAGENESIS:</b>            Pyritized burrow            Sec. 3 at 4, 10cm  <b>DISTURBANCE:</b> Gas expansion cracks common throughout Sec. 1  <b>FOSSILS:</b>            Visible forams            Sec. 2 at 0-90cm            Sec. 3 at 0-60cm            Sec. 4 at 0-40cm  <b>SMEAR SLIDES:</b>            Sec. 2 at 70cm            Sec. 4 at 70cm            Sec. 6 at 130cm</p>
77										
78	2									
79	3									
80	g									
81	4									
82	5									
83										SPH, JAN, EXO, JUD, MAZ, IW
84	6									
85	c									GRS, PIN, PUS
	c									

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 10H								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	VC Sand	VC Sand	VC Sand	Silt	Clay			
86	1	[Lithology pattern]			[Bioturbation symbol]			[Fossils symbol]		<p><b>MAJOR LITHOLOGY:</b> Volcanic Glass Bearing Clay / Volcanic Glass and Pyrite Bearing Clay  <b>MINOR LITHOLOGY:</b> Volcanic Glass Bearing Dolomitic Silt/Sand  <b>COLOR:</b>            Sec. 1 at 0-10cm 5Y 4/4 Olive            Sec. 1 10-150cm Dark greenish gray  <b>BIOTURBATION:</b> Common throughout core            Zoophycus burrow in Sec. 5 at 50cm  <b>FOSSILS:</b>            Wood in Sec. 1 at 30cm            Visible forams in Sec. 1 throughout  <b>ASH:</b>            Disseminated white ash spots            Sec. 1, 2 rare throughout            Sec. 3 at 73cm  <b>SMEAR SLIDES:</b>            Sec. 1 at 2cm            Sec. 2 at 70cm            Sec. 6 at 80cm</p>
87	2	[Lithology pattern]			[Bioturbation symbol]					
88	3	[Lithology pattern]			[Bioturbation symbol]					
89	4	[Lithology pattern]			[Bioturbation symbol]					
90	4	[Lithology pattern]			[Bioturbation symbol]					
91		[Lithology pattern]		SPH, JAN, EXO, JUD, MAZ, IW	[Bioturbation symbol]					
92	5	[Lithology pattern]			[Bioturbation symbol]					
93	6	[Lithology pattern]			[Bioturbation symbol]					
94		[Lithology pattern]		GRS, PIN, PUS	[Bioturbation symbol]					

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 11H									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			VC Sand								
			VF Sand								
			VF Sand								
			Silt								
			Clay								
95	1										<p><b>MAJOR LITHOLOGY:</b> Volcanic Glass Rich Clay / Volcanic Glass and Nannofossil Bearing Clay</p> <p><b>COLOR:</b> Very dark greenish grey</p> <p><b>BIOTURBATION:</b> Common in Sec. 1, 2, 3</p> <p><b>DISTURBANCE:</b> Sec. 1 0-45 moderate drilling disturbance</p> <p><b>DIAGENESIS:</b> Carbonate nodule in Sec. 3 at 27-30cm</p> <p><b>FOSSILS:</b> Zoophycos in Sec. 2 at 27cm</p> <p><b>SMEAR SLIDES:</b> Sec. 1 at 90cm Sec. 3 at 28cm</p>
96											
97	2				SPH, JAN, EXO, JUD, MAZ						
98	3				GRS, PIN, PUS						

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 12X							Description	
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
			Grain Size								
			VC Sand	Clay							
99		1									<p>MAJOR LITHOLOGY: Nannofossil Rich Clay / Biosiliceous Bearing Clay            COLOR:            Sec. 1, 2, 3, 4, 6, 7 5GY 4/1 Dark greenish gray            Sec. 5 from 0-60cm 10Y 4/1 Dark greenish gray            Sec. 5 from 60-138cm 5GY 4/1 Dark greenish gray            DISTURBANCE:            Moderate in Sec. 1 at 0-17cm            ASH:            Disseminated white spots in Sec. 6 at 14,39cm            SMEAR SLIDES:            Sec. 2 at 112cm            Sec. 5 at 20cm</p>
100		2									
101		3									
102		4									
103	1 2	5									
104		6									
105		7									
106		c c									
107											
108											



CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 14X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Section	Grain Size							
		VC Sand V Sand IV Sand VF Sand	Silt Clay							
118	1									<p>MAJOR LITHOLOGY: Clay            COLOR:            10Y 4/1 Dark greenish grey            DISTURBANCE:            Moderate in Sec. 1 throughout            BIOTURBATION:            Rare in Sec. 1            ASH:            Disseminated white ash spots            Sec. 2 at 7, 19, 37cm            Sec. 4 at 35, 96, 119, 123cm            SMEAR SLIDES:            Sec. 2 at 93cm            Sec. 4 at 83cm</p>
119	2									
120				PWC						
121	3									
122	4			SPH, JAN, EXO, JUD, MAZ, IW						
123				GRS, PIN, PUS						
124										
125										
126										

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 15P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			US Sand								
			MF Sand								
			VF Sand								
			Silt								
			Clay								
126	1 5	1									MAJOR LITHOLOGY: Clay COLOR: 5GY 4/1 Dark greenish grey DISTURBANCE: Gas expansion cracks throughout SMEAR SLIDES: Sec. 1 at 4cm
126											
127											

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 16Y								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			MS Sand								
			MF Sand								
			Silt								
			Clay								
127	1	1									
128	6										MAJOR LITHOLOGY: Clay COLOR: 5GY 4/1 Dark greenish grey DISTURBANCE: Drilling related, moderate from 0-4cm Gas expansion cracks throughout ASH: Disseminated white ash spots 22, 85-92cm No smear slide taken
128											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 17E								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand	Clay							
128	1	1									MAJOR LITHOLOGY: Clay COLOR: 5GY 4/1 Dark greenish grey Structureless No smear slide taken
128											
129											

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 18X							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			
129	1									<p>MAJOR LITHOLOGY: Clay MINOR LITHOLOGY: Glauconite COLOR: 10Y 4/1 Dark greenish grey DISTURBANCE: Moderately disturbed throughout entire core FOSSILS: Disseminated forams in Sec. 4 throughout DIAGENESIS: Disseminated FeS Sec. 1 at 90-150cm Pyritized burrows Sec. 2 at 6-7cm Sec. 4 at 125cm ASH: Disseminated white ash spots Sec. 1 at 15, 63, 98, 112cm Sec. 2 at 20, 98, 122cm Sec. 3 at 30, 72cm Sec. 4 at 22, 47, 69, 83, 98, 100, 115, 117, 134cm Sec. 5 at 3, 66cm MISC: Glauconite enriched interval in Sec. 4 at 103-109cm SMEAR SLIDES: Sec. 2 at 70cm Sec. 4 at 105cm Sec. 6 at 80cm</p>
130										
131		2								
132		3								
133		4	SPH, JAN, EXO, JUD, MAZ, IW							
134										
135	5									
136	6									
137										
138	c	GRS, PIN, PUS								

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 19X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			U Sand								
			IV Sand								
			VF Sand								
			Silt								
			Clay								
139	1	1									MAJOR LITHOLOGY: Nannofossil Rich Clay COLOR: 10Y 4/1 Dark greenish grey DISTURBENCE: Moderate from 0-9cm FOSSILS: Forams disseminated throughout DIAGENESIS: FeS grains Sec. 1 throughout ASH: Disseminated white ash spots Sec. 1 at 35, 90cm SMEAR SLIDES: Sec. 1 at 33cm
140	c	c			IV, GRS						
					GRS, PIN, PUS						
141											
142											
143											
144											
145											
146											
147											
148											

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 20X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand C Sand M Sand VF Sand	Silt Clay							
149	1					Fe				<p><b>MAJOR LITHOLOGY:</b> Glauconite Rich Clay / Glauconite Bearing Clay  <b>COLOR:</b> 5GY 3/1 Very dark greenish grey  <b>BIOTURBATION:</b> Rare in Sec. 1  <b>DISTURBANCE:</b> Gas expansion cracks            Sec. 2 at 39-41cm  <b>FOSSILS:</b> Visible forams            Sec. 1 throughout  <b>DIAGENESIS:</b> Dolomite concretion            Sec. 1 at 3-5cm (3x2cm in size)            Pyritized burrows            Sec. 1 at 17, 30, 128, 130cm            Sec. 2 at 32cm            Sec. 3 at 46, 64cm            Disseminated FeS            Sec. 1 throughout  <b>ASH:</b> Disseminated white ash spots            Sec. 2 at 34, 140, 146, 147cm            Sec. 3 at 71cm            Sec. 4 at 10cm  <b>SMEAR SLIDES:</b>            Sec. 1 at 83cm            Sec. 4 at 25cm</p>
150	2									
151	3									
152	4			SPH, JAN, EXO, JUD, MAZ, IW						
153	c c			GRS, PIN, PUS						
154										
155										
156										
157										

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 21X							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			
158	1			SPH, JAN, EXO, JUD, MAZ, IW		Fe				MAJOR LITHOLOGY: Glauconite Bearing Clay COLOR: 10Y 4/1 Dark greenish grey DISTURBANCE: Moderate disturbance throughout entire core FOSSILS: Visible forams throughout entire core DIAGENESIS: Dolomitic nodule Sec. 1 at 0-3cm (4x3cm) Pyritized burrows Sec. 1 at 7-8cm FeS disseminated throughout entire core ASH: Disseminated white ash spots Sec. 2 at 30, 44, 140cm Sec. 3 at 55, 67, 99, 110, 133, 144cm Sec. 4 at 119cm Sec. 5 at 56, 77cm SMEAR SLIDES: Sec. 1 at 72cm Sec. 4 at 130cm
159										
160	2					Fe				
161	3					Fe				
162										
163	4					Fe				
164	5					Fe				
165	c c			GRS, PIN, PUS						
166										
167										

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 22X							Description	
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
			Grain Size	Clay							
			VC Sand V Sand M Sand VF Sand Silt Clay								
168		1					Fe				<p><b>MAJOR LITHOLOGY:</b> Nannofossil Bearing Clay / Clay  <b>COLOR:</b>            10Y 4/1 Dark greenish grey  <b>DISTURBANCE:</b> Gas expansion cracks in Sec. 6 at 28, 40, 44, 46, 53, 58cm  <b>FOSSILS:</b>            Visible forams in Sec. 1 and 2 throughout  <b>DIAGENESIS:</b>            Visible glauconite grains at 110, 115cm            Pyritized burrows            Sec. 4 at 24, 35, 96cm            Sec. 5 at 53, 54cm            FeS disseminated            Sec. 1 and 2 throughout  <b>ASH:</b>            Disseminated white ash spots            Sec. 2 at 2, 37cm            Sec. 3 at 28, 66cm            Sec. 4 at 33, 42, 98, 134, 141cm  <b>SMEAR SLIDES:</b>            Sec. 2 at 70cm            Sec. 5 at 60cm</p>
169		2		PWC		Fe					
170		3		MBR, MBF, MBG							
171		4		SPH, JAN, EXO, JUD, MAZ, IW			PY				
172	2	5		IW			PY				
173	2	6									
174		c		MBIO, GRS							
175		c		GRS, FIN, PUS							
176											
177											

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 23X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand C Sand M Sand VF Sand	Silt Clay							
178	1									<p>MAJOR LITHOLOGY: Nannofossil Bearing Clay / Clay            COLOR: 10Y 4/1 Dark greenish grey            DISTURBANCE: Biscuits/slurry throughout entire core            ASH: Disseminated white ash spots            Sec. 3 at 6cm            Sec. 4 at 20cm            Sec. 5 at 18, 37cm            Sec. 6 and 7 rare throughout            SMEAR SLIDES:            Sec. 2 at 80cm            Sec. 6 60cm</p>
179	2									
180										
181	3			SPH, JAN, EXO, JUD, MAZ, IW						
182	2 3									
183	4									
184	5									
185	6			IW						
186	7			GRS, PIN, PUS						
	c c									

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 24X									
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
		Grain Size									
		VC Sand	Clay								
187	2 4	VC Sand M Sand IF Sand Silt Clay	[Green dotted pattern]	SPH, JAN, EXO, JUD, MAZ, IW					S	<p>MAJOR LITHOLOGY: Nannofossil Rich, Glauconite Bearing Clay / Glauconite Rich, Nannofossil Bearing Clay</p> <p>COLOR: 10Y 4/1 Dark greenish grey</p> <p>DISTURBANCE: Biscuits/slurry throughout entire core</p> <p>Very disturbed in Sec. 1 at 0-10cm</p> <p>Mousse texture in Sec. 4 at 37-52cm and Sec. 6 at 18-53cm</p> <p>ASH: Disseminated white ash spots</p> <p>Sec. 5 at 75cm</p> <p>SMEAR SLIDES: Sec. 2 at 75cm, Sec. 5 at 30cm</p>	
188											1
189											2
190											3
191											4
192											5
193	6	[Diagonal hatching]	IW								
194										6	
195										c c	GRS, PIN, PUS

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 25P								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			VF Sand								
			VF Sand								
			VF Sand								
			Silt								
			Clay								
194	2 5	1									MAJOR LITHOLOGY: Clay COLOR: 5GY 4/1 Dark greenish grey DIAGENESIS: Authigenic carbonate nodule at 67-68cm SMEAR SLIDES: Sec. 1 at 40cm

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 26Y								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
195	2 6	1	VC Sand VC Sand VC Sand VF Sand VF Sand Silt Clay								MAJOR LITHOLOGY: Clay COLOR: 5GY 4/1 Dark greenish grey No smear slide taken



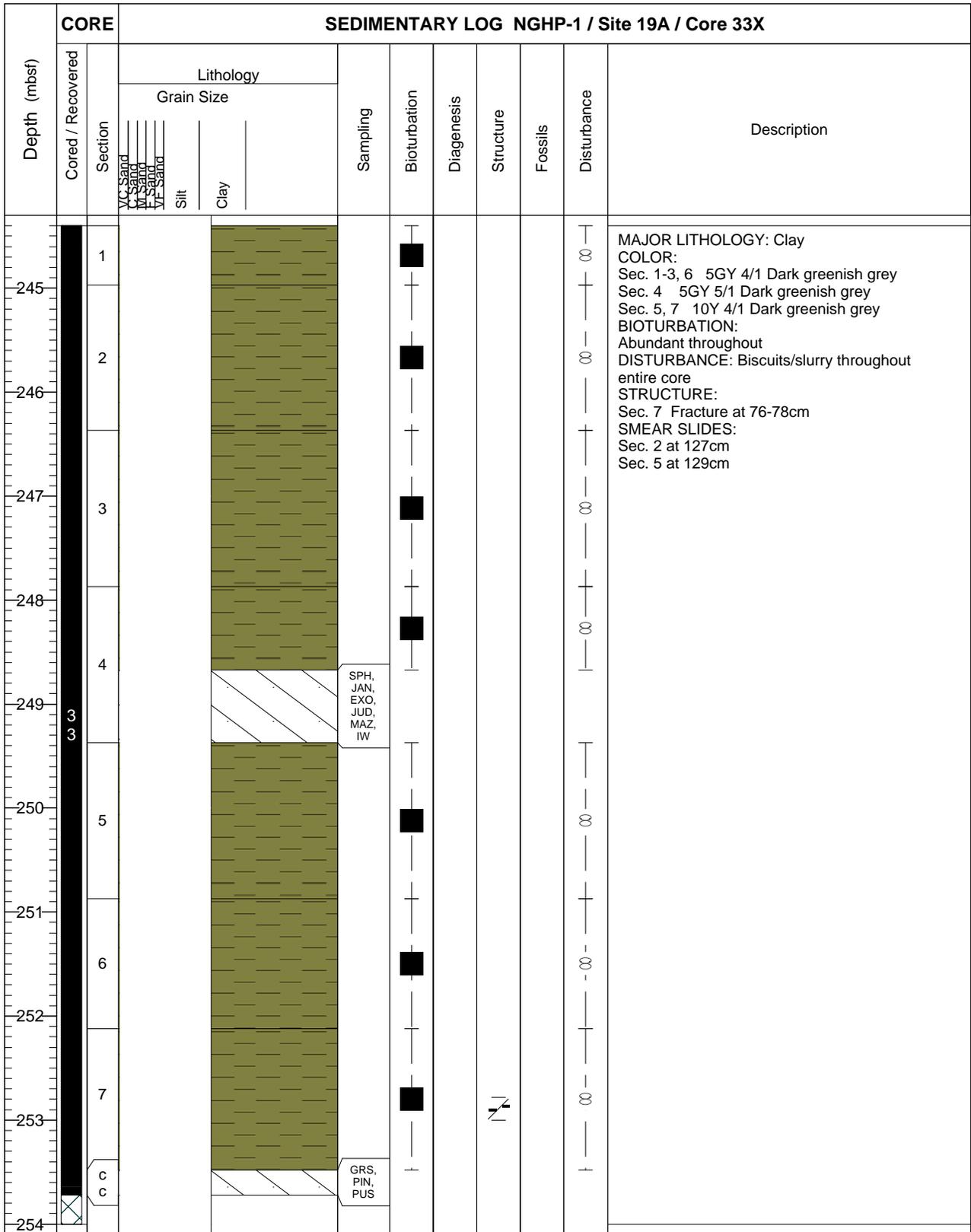
CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 28X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
	Section	VC Sand	VC Sand	VC Sand	VC Sand	Silt	Clay			
197	1									<p>MAJOR LITHOLOGY: Nannofossil and Glauconite Bearing Clay / Nannofossil Bearing Clay</p> <p>COLOR: 5GY 4/1 Dark greenish grey in Sec. 1, 2, 5, 6 and 7 10Y 4/1 Dark greenish grey in Sec. 3, and 4</p> <p>DISTURBANCE: Biscuits/slurry throughout entire core Moussey texture in Sec. 5 at 65-90cm</p> <p>ASH: Disseminated white ash spots Sec. 1 at 7cm Sec. 2 at 18, 25cm Sec. 6 at 32, 37cm</p> <p>SMEAR SLIDES: Sec. 2 at 86cm Sec. 5 at 64cm</p>
	2									
198					GRS, MBIO					
	3									
199										
200	4									
201					SPH, JAN, EXO, JUD, MAZ, IW					
202	5									
203	6									
204	7									
205	c c				GRS, PIN, PUS					

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 29X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size	Clay							
206	1										<p>MAJOR LITHOLOGY: Nannofossil Rich Biosiliceous Bearing Clay / Nannofossil Rich Foraminifera Bearing Clay COLOR: 5GY 4/1 Dark greenish grey DISTURBANCE: Biscuits/slurry throughout entire core Mousse texture in Sec. 3 at 39-42cm ASH: Disseminated white ash spots Sec. 4 rare throughout SMEAR SLIDES: Sec. 2 at 93cm Sec. 5 at 74cm</p>
207	2										
208	3				MBIO, PWC						
209	4				EXO, IW						
210	5										
211	6				SPH, JAN, EXO, JUD, MAZ, IW						
214	c				GRS, PIN, PUS						
215											

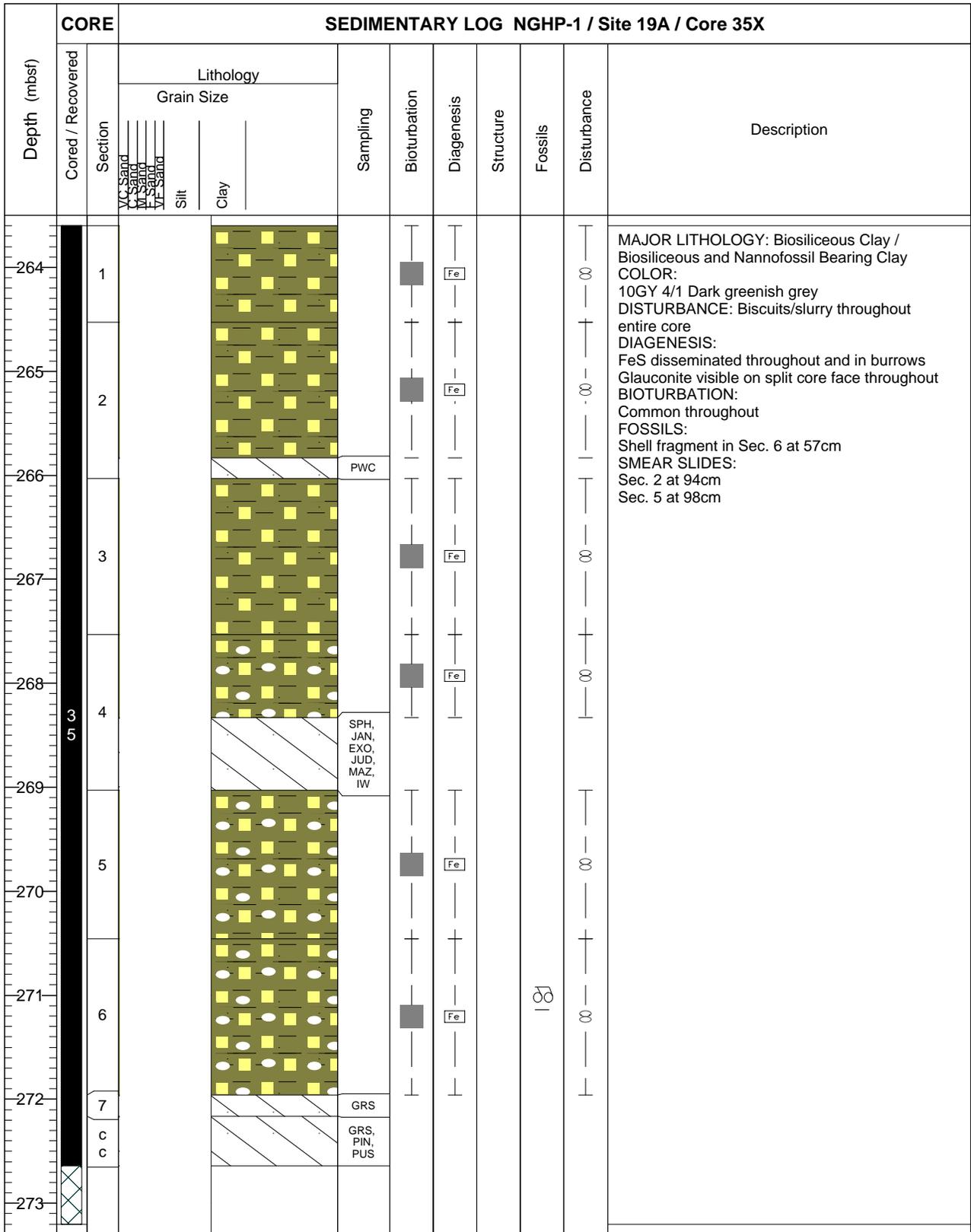
CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 30X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand								
		W Sand								
		VF Sand								
		Silt								
		Clay								
216	1			IW						<p><b>MAJOR LITHOLOGY:</b> Biosiliceous Bearing Clay Rich Nannofossil Ooze / Glauconite Bearing Clay <b>COLOR:</b> 5GY 4/1 Dark greenish grey <b>DISTURBANCE:</b> Biscuits/slurry throughout entire core <b>ASH:</b> Disseminated white ash spots Sec. 2 at 17, 30cm <b>SMEAR SLIDES:</b> Sec. 2 at 100cm Sec. 6 at 20cm</p>
217	2			EXO, IW						
218	3			SPH, JAN, EXO, JUD, MAZ						
219	4			GRS, IW						
220	5									
221	6									
222	7									
223	8									
223	c c			GRS, PIN, PUS						
224										
225										

CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 31X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand	Clay							
226	1										<p>MAJOR LITHOLOGY: Nannofossil Rich Clay / Glauconite Bearing Clay COLOR: 5GY 4/1 Dark greenish grey DISTURBANCE: Biscuits/slurry throughout entire core Mousse texture in Sec. 6 at 0-6cm ASH: Disseminated white ash spot Sec. 1 at 85cm Sec. 3 throughout SMEAR SLIDES: Sec. 2 at 70cm Sec. 6 at 50cm</p>
227	2										
228					EXO, IW						
229	3										
230	4	3 1									
231	5										
232	6				SPH, JAN, EXO, JUD, MAZ, IW						
233	c c				GRS, PIN, PUS						
234											

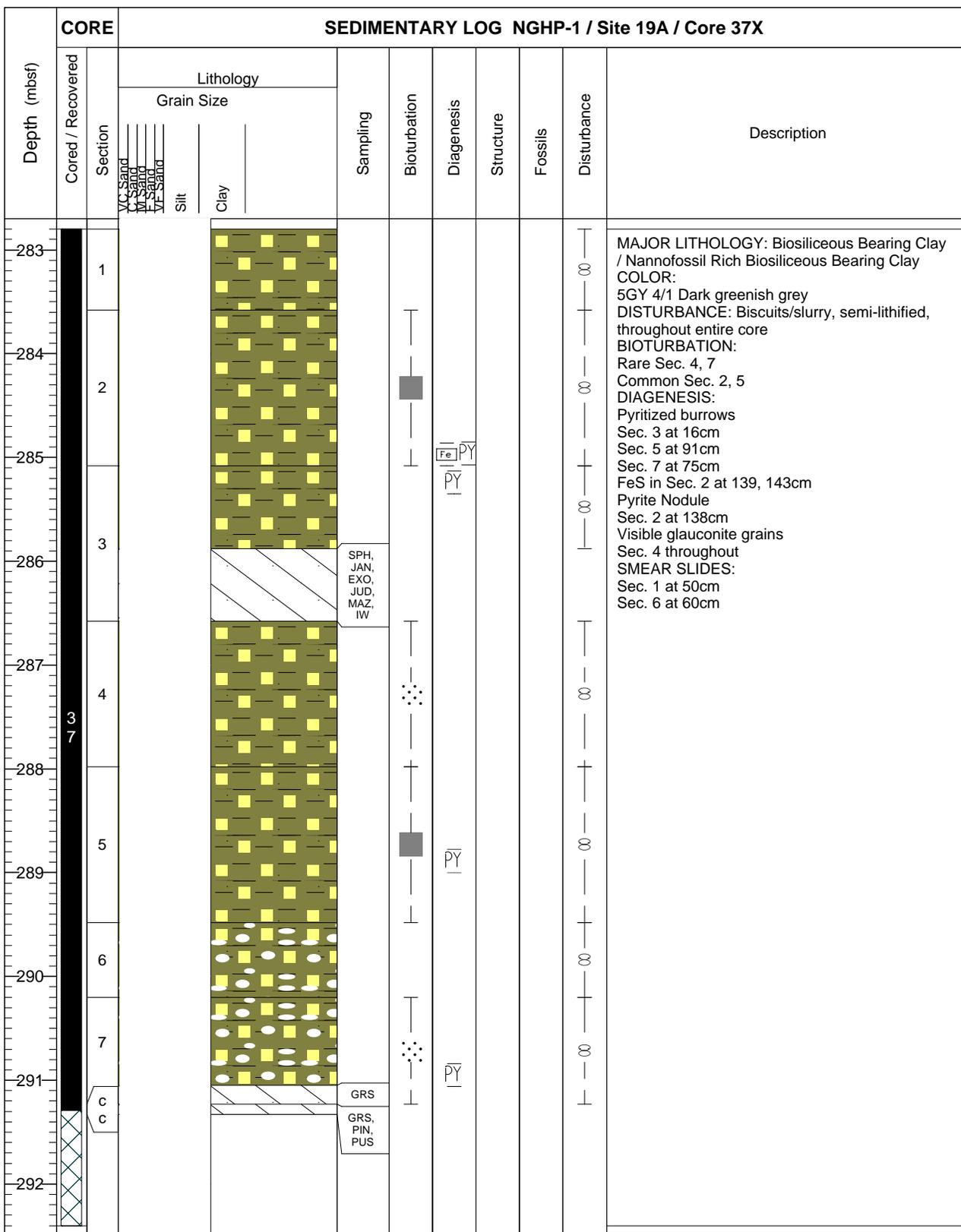
Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 32X								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size	Clay							
235	3 2	1									<p>MAJOR LITHOLOGY: Sponge Spicule Rich and Nannofossil Bearing Clay / Sponge Spicule Bearing Clay</p> <p>COLOR:                      Sec. 1, 5, 6 5GY 4/1 Dark greenish grey                      Sec. 2 at 0-110cm 5GY 4/1 Dark greenish grey                      Sec. 2 110-150cm 10Y 4/1 Dark greenish grey                      Sec. 3 and 4 10Y 4/1 Dark greenish grey</p> <p>DISTURBANCE: Biscuits/slurry throughout entire core</p> <p>FOSSILS:                      Woody debris                      Sec. 4 at 11cm                      Sec. 7 at 121cm</p> <p>SMEAR SLIDES:                      Sec. 2 at 90cm                      Sec. 5 at 90cm</p>
236		2									
237		3									
238		4									
239		5									
240		6									
241		7									
242		c c									
243											
244											



CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 34X								
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	VC Sand							
		VC Sand	VC Sand							
		Silt								
		Clay								
254	1				+	+			∞	<p>MAJOR LITHOLOGY: Clay / Biosiliceous Bearing Clay            COLOR: 5GY 4/1 Dark greenish grey            BIOTURBATION: Common throughout entire core            DISTURBANCE: Biscuits/slurry throughout entire core            DIAGENESIS: FeS grains throughout entire core            ASH: Disseminated white ash spots            Sec. 2 at 48, 99cm            FOSSILS: Woody debris            Sec. 2 at 149cm            SMEAR SLIDES: Sec. 2 at 91cm            SEc. 5 at 94cm</p>
255	2				+	+		∞		
256	3				+	+		∞		
257	4				+	+		∞		
258	3				+	+		∞		
259	4				+	+		∞		
260	5				+	+		∞		
261	6				+	+		∞		
262	c									
263	c									



CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 36X								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Section	Grain Size							
		VC Sand V Sand M Sand VF Sand	Silt Clay							
274	1									<p><b>MAJOR LITHOLOGY:</b> Bisiliceous Rich Clay / Nannofossil Bearing Bisiliceous Rich Clay  <b>COLOR:</b> 5GY 3/1 Very dark greenish grey  <b>DISTURBANCE:</b> Biscuits/slurry throughout entire core  <b>BIOTURBATION:</b> Common throughout entire core  <b>DIAGENESIS:</b> FeS filled burrows common throughout                      Pyrite filled burrow                      Sec. 2 at 15cm                      Sec. 7 at 61cm                      Glauconite pellets common throughout  <b>FOSSILS:</b> Shell fragments                      Sec. 2 at 104cm                      Sec. 3 at 25, 51cm  <b>SMEAR SLIDES:</b>                      Sec. 2 at 75cm                      Sec. 6 at 63cm</p>
275	2					Fe PY				
276						Fe				
277	3					Fe				
278	4					Fe				
279	5			SPH, JAN, EXO, JUD, MAZ, IW		Fe				
280	6					Fe				
281	7					Fe PY				
282	c c			GRS, PIN, PUS						



CORE		SEDIMENTARY LOG NGHP-1 / Site 19A / Core 38X								
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							
293	1				■	Fe		∞   ∞	∞	<p><b>MAJOR LITHOLOGY:</b> Biosiliceous Nannofossil Bearing Clay / Pyrite Rich Clay  <b>MINOR LITHOLOGY:</b> Glauconite Rich, Foraminifera and Nannofossil Bearing Clay (from zone in core with visible glauconite)  <b>COLOR:</b> 5GY 3/1 Very dark greenish grey  <b>DISTURBANCE:</b> Biscuits/slurry throughout entire core  <b>BIOTURBATION:</b>            Sec. 1 Common throughout            Sec. 2, 4, 5 Moderate            Sec. 3 Abundant from 94-117cm  <b>DIAGENESIS:</b>            FeS filled burrows            Sec. 1, 2, 3 throughout            Glauconitic grains visible            Sec. 3, 5, 6 throughout  <b>FOSSILS:</b>            Shell fragments            Sec. 1 at 92, 142cm  <b>ASH:</b>            Disseminated white ash spots            Sec. 2 at 26, 30, 68, 115, 140cm  <b>SMEAR SLIDES:</b>            Sec. 1 at 102cm            Sec. 4 at 33cm            Sec. 5 at 130cm</p>
294	2				■	Fe		∞   ∞	∞	
295	3				■	Fe		∞   ∞	∞	
296	3				■	Fe		∞   ∞	∞	
297	4				■			∞   ∞	∞	
298	4			SPH, JAN EXO, JUD, MAZ, IW				∞   ∞	∞	
299	5				■			∞   ∞	∞	
300										
301	6								∞   ∞	
302	c c			GRS, PIN, PUS					∞   ∞	

CORE		SEDIMENTARY LOG NGHP-1 / Site 19B / Core 01H								
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
		Grain Size								
		VC Sand	Clay							
1	1	VC Sand	Clay							<p><b>MAJOR LITHOLOGY:</b> Clay / Nannofossil Bearing Clay / Nannofossil and Foraminifera Rich Clay / Nannofossil Rich, Foraminifera Bearing Clay / Nannofossil and Foraminifera Bearing Clay / Nannofossil Rich Pyrite Bearing Clay</p> <p><b>COLOR:</b> 5Y 4/3 Olive in Sec. 1 (top half) and 2 (at 0-137cm) 5Y 4/2 Olive grey in Sec. 1 (bottom half), 3 (at 70-150cm), 4 (at 0-45, 60-150cm) and core catcher 5Y 5/3 Olive in Sec. 2 (at 137-150cm), 3 (at 0-70) and 4 (at 45-60cm) 5Y 4/1 Dark grey in Sec. 5</p> <p><b>FOSSILS:</b> Visible forams throughout entire core <b>BIOTURBATION:</b> Rare / common throughout entire core Burrow filled with forams in Sec. 1 at 114-125cm Prominent burrow in Sec. 5 at 61-68cm</p> <p><b>SMEAR SLIDES:</b> Sec. 1 at 10cm Sec. 2 at 40cm Sec. 3 at 40cm Sec. 3 at 100cm Sec. 4 at 10cm Sec. 4 at 50cm Sec. 4 at 90cm Sec. 5 at 50cm</p>
2	2	VC Sand	Clay							
3	3	VC Sand	Clay							
4	4	VC Sand	Clay							
5	4	VC Sand	Clay							
6	5	VC Sand	Clay							
7	5	VC Sand	Clay							

