

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JK	2-15-19
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0-150 Dark gray ~~silty~~ clay -
Thinly laminated
⊖-11 cm Very disturbed (fall-in)
11-150 cm Moderate disturbance
(biscuiting)

SS#1, G-R1-1A-111cm (silt < 10%)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK	2-15-19
								Comments
0								0-150 Dark gray clay, thin Thinly laminated
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JK	2-15-19
Comments											
0									0-131 Dark gray clay, thin Thinly laminated.		
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16									Mod. disturbance: biscuiting		
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58		→				↑	↑	↑			
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62		←				⊙	⊙	⊙			
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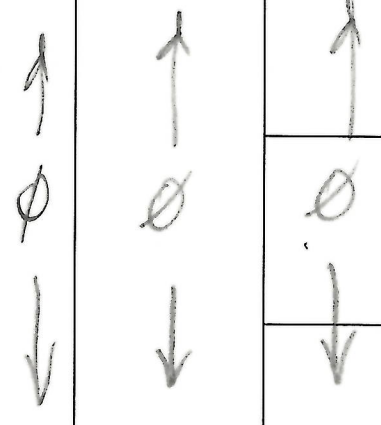




CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK	2/15/19
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PAL

0-12 Dark gray clay
Thinly laminated,



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/15/19
Comments								
0		Zigzag line with 'fall' written vertically					0-150: Very dark gray clay thinly laminated	
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52		Upward arrow						
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biscuiting



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Granule present at 84 cm

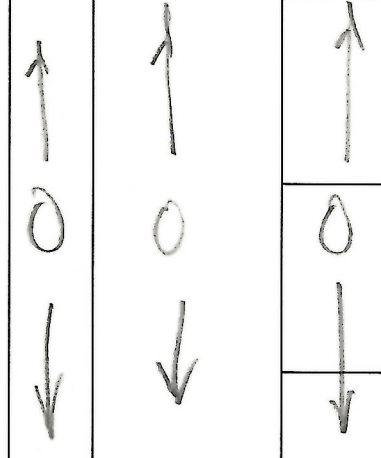
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/15/19
Comments											
0											U-151 Very dark grey silty clay. Thinly laminated. With traces of biosiliceous debris
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The disturbance is biscuiting.

SS # 3 (-20% silt)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	2/15/19
0									0-15cm Dark gray clay, thin Thinly laminated.		
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Moderate; Discussing.



126 to 127 3 granules
milky quartz, granite w/ euhedral
grain (? garnet), green orthoquartzite
see 379 TS 04
U1532B-7H-CC-
FORAM, for a
view of the rock type
-CS

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	2/15/19
0									0-151 cm Dark gray clay, fine Thinly laminated, With traces of biosiliceous debris.		
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Moderate, biscuiting

0-151 cm Dark gray clay, fine
Thinly laminated,
With traces of biosiliceous
debris.

SS # 4 (<10% silt)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology c ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2/15/19
Comments								
0							0-148 Dark gray clay. Thinly laminated.	
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Moderate Bioturbation

-93 to 94 Single red angular granule. Lamina beneath is slightly depressed.

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2/15/19
								Comments
0							0-60 Dark gray silty clay [*] Thinly laminated	
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Moderate, biscuiting

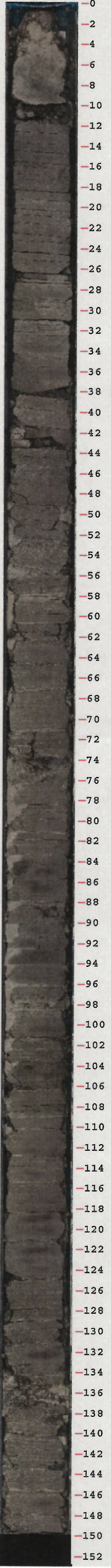
See smear slides
G SS 394

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	2/15/19
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PAL

0-12 Dark gray ~~silt~~ clay.
 Thinly laminated.
 * see
 smear
 slides
 G-55 3 & 4

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/15/19
							Comments	
0		flow-in					0-150: dark gray silty clay thinly laminated	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/15/19
0									0-150 : dark gray silt/clay thinly laminated		
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moderate siltification

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/15/19
							Comments	
0							0-150cm: dark gray silty clay thinly laminated	
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← moderate bioturbation →

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPLK	02/15/19
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moderate bioturbation

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/15/19
							Comments	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/15/19
0									Comments 0-17 cm: dark gray silty clay thinly laminated		
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 10/2/19
							Comments	
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fall in

Biscuit

0-150cm Dark gray thinly laminated silty clay

21cm thin black lamina

59cm thin black lamina

74cm " " "

93cm discontinuous thin black lamina

135-139cm thin black lamina

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
0							Comments 0-121cm: dark gray thinly laminated silty clay 18cm: silt lens (ripple?) 21cm: black/dark gray discontinuous laminae Section shows more prominent silt partings at the top	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
								Comments
0								0-73cm: dark gray thinly laminated silty clay
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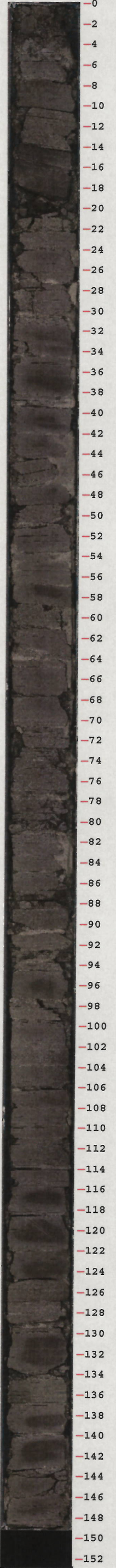
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MBIO

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
0								0-25cm: Dark gray thinly laminated silty clay
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4						∅		
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Rothie	Date: 2/16/2019
							Comments	
0				0			<p>0-150 dark gray thinly laminated silty clay</p> <p><u>Disturbances:</u> 0-6 fall-in 6-19 moderately fractured 19-21 fractured 45-48 tilted biscuit 73-94 moderately fractured rest of core: slightly biscuited</p> <p>white Silt lenses throughout e.g., 140 cm 110 cm: silt lens/pods 92 cm ↗</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/16/2019
							Comments	
0				0		0	0-150: dark gray thinly laminated silty clay silt laminae throughout Disturbances: slightly biscuited throughout tilted biscuit 119-129 60-99 lenticular laminations	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/16/2019
Comments								
0				0		0	0-150 : dark gray thinly laminated silty clay	
2							silt laminae throughout	
4							<u>Disturbances:</u> slightly biscuit throughout 122-146: moderately fractured 48-111: slurry 1-5 cm from edge of core liner carbonate cemented layers - granular texture - thickness ranges from $1-4\text{ mm}$ from 32-52 cm laminae > 2 mm at 33, 37, 38, 39, 40, 48	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Rotnie	2/16/2019
Comments											
0											
2						0		0			0-150: dark gray thinly laminated silty clay
4											silt laminae throughout
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Disturbances:

slightly biscuited throughout
 128-150: moderately fractured
 47-49: moderately fractured
 89: lens / pod
 110 →
 115 →
 131 →

biscuits

fractured

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							putie	2/16/2019
Comments								
0				0		0	0-150: dark gray thinly laminated silty clay silt laminae throughout	
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Disturbances

0-6 : moderately fractured
 35-39 : highly fractured
 35-63 : moderately bisected
 63-69 : highly fractured
 69-150 : moderately bisected
 minus 117-120 } highly fractured
 127-131 }

41, 55, 100 silt pods/lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
0							0-149cm: dark gray laminated silty clay, thinly laminated	
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100-101 cm: cemented laminae with granular texture (coarser?)

105-108 cm: cemented laminae with granular texture - sorted silt to fine sand (HCl test) cement = carbonate

H H

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
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6	7					∅		0 - 20cm: dark gray thinly laminated silty clay
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14	14					∅		
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
0		⚡	S	X	↑	∅	0-150cm: dark gray thinly laminated silty clay	
2								
4							17cm: very dark green laminae	
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150	150							

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
0							<p>0-52cm: dark gray thinly laminated silty clay</p> <p>52 cm: sharp, planar contact</p> <p>52-70cm: greenish gray sandy mud, bioturbated</p> <p>57cm: granule</p> <p>70-105cm: greenish gray silty clay with dispersed sand and granules</p> <p>91cm: granule</p> <p>103cm: granule</p> <p>105-150: Dark gray thinly laminated silty clay</p> <p>116-118cm: greenish gray burrow fills</p> <p>135-136cm: dark greenish gray laminae</p>	
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152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	16/2/19
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0-6 cm Dark gray thinly laminated silty clay with intermittent intervals of dark greenish gray silty clay

6-7 cm Greenish gray bioturbated silty clay

7-27 cm Dark gray thinly laminated silty clay with intermittent intervals of dark greenish gray silty clay

27-29 cm Greenish gray bioturbated silty clay

29-150 cm Dark gray thinly laminated silty clay

88-90 cm pebble in slurry appears to have been dragged down core during coring? A-axis 2.5 cm quartz? Not included in pebble count.

130 cm thin black lamina

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
0								0-150 cm: Dark gray thinly laminated silty clay
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152	151							
								75-81 cm: silt lenses 94 cm: silt lens
								125-126: Two dark green bioturbated laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 16/2/19
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152								

0-149cm Dark gray thinly laminated silty clay with occasional lenticular ~~thin~~ laminations

59cm discontinuous black laminae

76-79cm thin black laminae

101cm thin black laminae

111cm faulted laminae?

118cm discontinuous black laminae

thin
141cm black laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/16/19
Comments								
0				0	↑	∅	0-18cm: Dark gray laminated silty clay	
2				0	↑	∅		
4					↑		18	
6					↑			
8					↑		18	
10					↑			
12					↑		18	
14					↑			
16					↑		18	
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22					↑			
24					↑		18	
26					↑			
28					↑		18	
30					↑			
32					↑		18	
34					↑			
36					↑		18	
38					↑			
40					↑		18	
42					↑			
44					↑		18	
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78					↑			
80					↑		18	
82					↑			
84					↑		18	
86					↑			
88					↑		18	
90					↑			
92					↑		18	
94					↑			
96					↑		18	
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100					↑		18	
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104					↑		18	
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108					↑		18	
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112					↑		18	
114					↑			
116					↑		18	
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120					↑		18	
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124					↑		18	
126					↑			
128					↑		18	
130					↑			
132					↑		18	
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136					↑		18	
138					↑			
140					↑		18	
142					↑			
144					↑		18	
146					↑			
148					↑		18	
150					↑			
152					↑		18	
					↑			

PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/16/19
							Comments	
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0-101 cm: dark gray thinly laminated silty clay

101-122 cm: greenish gray silty clay with dispersed sand and gravel up to 0.5 cm φ, heavily bioturbated

122-129 cm: dark greenish gray silty clay, laminae are bioturbated

129-150 cm: dark greenish gray laminated silty clay with distinct burrows, horizontal greenish gray burrow fills

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/16/2019
							Comments	
0				0		0	<p>0-116: dark gray finely laminated silty clay silt laminae throughout</p> <p><u>Disturbances:</u> 11-15: moderately fractured 46-50: highly fractured 100-103: mod. fractured (slight biscuiting throughout)</p> <p>36: 2mm clast</p> <p>63-65: silt lenses (lenticular laminae)</p> <p>102: intraclast (sedimentary) 6mm long axis, aligned horizontally contains sand course sand grain occurs nearby</p> <p>112: intraclast (sed.) 5mm long axis, aligned horiz. contains sand, granule(s)?</p>	
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MBIC

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Rutlie	2/16/2019
0											
2						0		0			
4						0		0			
6						0		0			
8						0		0			
10						0		0			
12						0		0			
14						0		0			
16						0		0			
18						0		0			
20						0		0			
22						0		0			
24						0		0			
26						0		0			
28						0		0			
30						0		0			
32						0		0			
34						0		0			
36						0		0			
38						0		0			
40						0		0			
42						0		0			
44						0		0			
46						0		0			
48						0		0			
50						0		0			
52						0		0			
54						0		0			
56						0		0			
58						0		0			
60						0		0			
62						0		0			
64						0		0			
66						0		0			
68						0		0			
70						0		0			
72						0		0			
74						0		0			
76						0		0			
78						0		0			
80						0		0			
82						0		0			
84						0		0			
86						0		0			
88						0		0			
90						0		0			
92						0		0			
94	SS19					3		1			
96						3		1			
98						3		1			
100		fractured				3		1			
102						3		1			
104						3		1			
106						3		1			
108						3		1			
110						3		1			
112						3		1			
114						3		1			
116						3		1			
118						3		1			
120						3		1			
122						3		1			
124						3		1			
126						3		1			
128						3		1			
130						3		1			
132						3		1			
134						3		1			
136						3		1			
138						3		1			
140						3		1			
142						3		1			
144						3		1			
146						3		1			
148						3		1			
150						3		1			
152						3		1			

0-92: dark gray thinly laminated silty clay

slight biscuiting throughout

silt laminae & black laminae throughout
14, 27-29, 71

6 - silt pod/lens
27 →
58 →
70, 71 →

92-98: greenish gray clay dispersed pebbles and granule(s?) burrows
94: clast long axis 6mm black sandstone?

98-109: dark gray silty clay
- thinly laminated
- burrows

109-149: dark gray thinly laminated silty clay

98-101: highly fractured

124: ~3mm thick green laminae

132-142: lenticular lenses (silt pods/lenses)

128: 6mm long axis intraclast (sediment) aligned horizontally

biscuit

fractured

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/16/2019
							Comments	
0							0-116 cm: dark greenish gray silty clay thinly laminated granule present at 7 cm	
2								
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12								
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18								
20							granule present at 65 cm intraclast present at 73 cm	
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40							pebble at 100 cm (7mm diameter) two granules present in between 100 and 101 cm	
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slight bisecting

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0-116 cm: dark greenish gray silty clay
thinly laminated

granule present at 7 cm

granule present at 65 cm

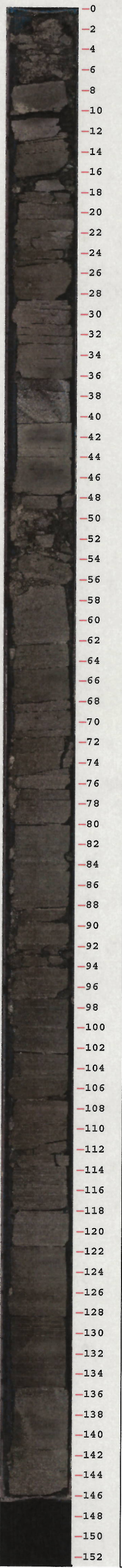
intraclast present at 73 cm

pebble at 100 cm (7mm diameter)
two granules present in between
100 and 101 cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/16/2019
								Comments
0								0-10 cm: dark greenish gray silty clay thinly laminated Between 2 and 3 cm two pyritic lenses present
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/16/2019
0									<p>0-146 cm: dark greenish gray silty clay thinly laminated</p> <p>45-46cm 2 small lenses pyrite-rich</p> <p>smear slide 84cm Trace sponge spicules</p> <p>82-83cm black pyrite-rich lens</p> <p>83-84cm sandy silt laminae with dispersed coarse sand grains, 1 granule within, 1 pebble found on edge <u>within</u> mud</p> <p>pebbles - plutonic quartz (gray green in color)</p>		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/16/19
							Comments	
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0-146cm
dark greenish gray
thinly laminated silty clay

slight
biscuits

102-103cm thin lamina of
sandy silt, 1 intraclast

122-123cm
2 sandy silt laminae

125-126cm
1 sandy silt lamina

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	2/16/19
0									<p>0-150cm dark greenish gray silty clay finely laminated 20cm H. colored silt pool</p>		
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152											

111.5-112.5 greenish gray sand/silty laminae (3 evenly spaced) with coarse sand

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	2-16-19
0									Dark greenish gray silty clay turnly laminated		
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50		Slight biscuits									
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Dark greenish gray silty clay turnly laminated

Slight biscuits

57-58cm - 3 silt pods

72cm sandy silty lamina with dispersed granules

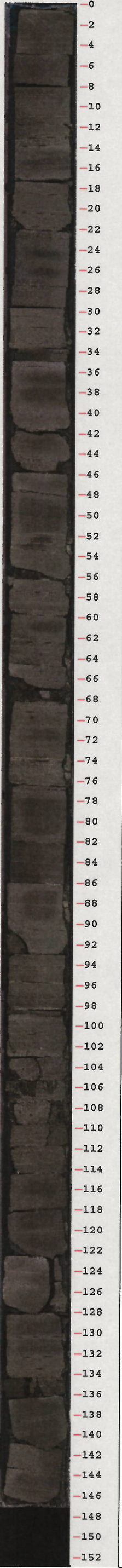
79cm sandy silt lamina with sand pod + 1 pebble (qtz + chlorite?)

105cm granules

127-128cm Very dk gray sandy silt lamina includes: 1cm diameter diatom-rich mud clast (soft), diatoms are broken but appear "fresh"

Smear slide taken from within interval

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 2-16-19
							Comments	
0						0	0-147cm dark greenish gray silty clay, thinly laminated	
2						0		
4						0		
6						0		
8						0		
10						0		
12						0		
14						0		
16						0		
18						0		
20						0	50cm granule	
22						0		
24						0		
26						0		
28						0		
30						0		
32						0		
34						0		
36						0		
38						0		
40						0	102cm qtz pebble	
42						0		
44						0		
46						0		
48						0		
50						0		
52						0		
54						0		
56						0		
58						0		
60						0		
62						0		
64						0		
66						0		
68						0		
70						0		
72						0		
74						0		
76						0		
78						0		
80						0		
82						0		
84						0		
86						0		
88						0		
90						0		
92						0		
94						0		
96						0		
98						0		
100						0		
102						1		
104						0		
106						0		
108						0		
110						0		
112						0		
114						0		
116						0		
118						0		
120						0		
122						0		
124						0		
126						0		
128						0		
130						0		
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150						0		
152						0		



slight biscuits

122

mod biscuits



0

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2-16-19
								Comments
0								Dark greenish gray silty clay finely laminated
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152								

mod biscuits

74 cm

slight biscuits

54cm 1 gravel

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2-16-19
								Comments
0							0-48 cm Dark greenish gray silty clay thinly laminated	
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Mod
biscuit

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0

↓

↑

0

↓

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2-16-19
Comments								
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PAL

mod
biscuit

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Dark greenish gray
silty clay, finely laminated

2cm - silt lamina with coarse
sand grains

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK/EAC	2-16-19
								Comments
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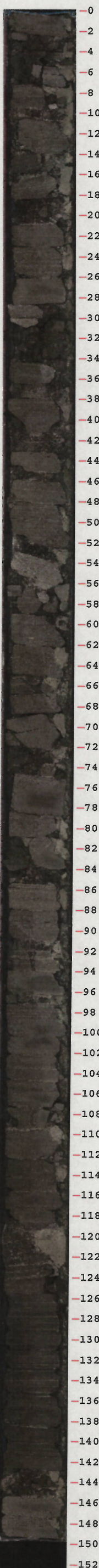
Dark greenish gray
silty clay finely laminated

sand pod at 100cm

mod.
biscuits

Slight
biscuits

86



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK/EAC	2-16-19
Comments								
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK / EAC	Date: 2-16-19
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Dark greenish gray silty clay, thinly laminated.

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology c st sd g	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/16/19
Comments								
0		fall in					0-150 cm : Dark greenish gray silty clay thinly laminated	
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mod. Sirenitizing

Granule at 148 cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/16/19
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CM Scale

SS
slight bisecting

SS

0-150 cm: Dark greenish gray silty clay thinly laminated
Granule at 3 cm

Granule at 40 cm

71-72 cm: two pebbles (quartzite?)
73 cm: sandy silt^{laminar} with dispersed coarse sand grains

118-120 cm: very dark gray very thin silty clay bed
→ traces of basalt. debris

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/16/2009
								Comments
0							0-150 cm: dark greenish gray silty clay thinly laminated	
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slight biscuiting

moderate biscuiting



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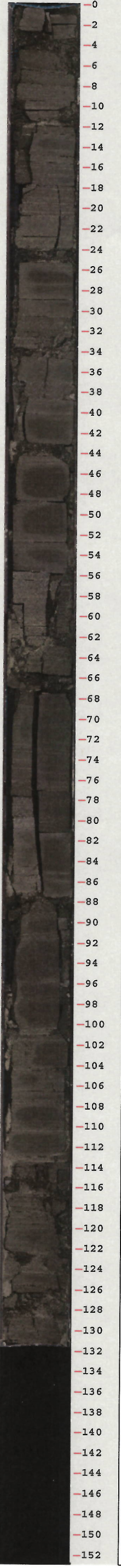
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/16/19
Comments								
0-10				0		0	0-10 cm: dark greenish gray silty clay, thinly laminated	
10-22				1		0	10-22 cm: dark gray silty clay (thinly laminated)	
22-34				2		1	22-34 cm: dark greenish gray biosilic.-bearing silt with dispersed sand and granules - (25, 27, 28 cm)	
34-66	SS	slight biscuiting		3		2	25 and 30: Sandy burrows Biosilic.-bearing 34-66: Sandy silt with greenish gray dispersed granules and pebbles	
66-73	SS			2	2.2 cm Sandstone containing poly. mict. clasts sub-ang.	1	66-73: Biosilic.-bearing dark greenish gray silt; faintly laminated	
73-105				2		0	73-105: dark greenish gray silty clay, thinly laminated, traces of biosilic. debris	
79.5-84				1		0	79.5-84: dispersed sand pods	
Between 48 and 52				0		0	Between 48 and 52 cm two large pebbles -> Red sandstone with poly. mict. clasts, sub-angular, 2.2 cm; argillite, sub-rounded, 1.5 cm	

M

MBIO

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/16/19
0		-							0-151cm: dark greenish gray silty clay thinly laminated		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/16/19
0									0-132 cm: dark greenish gray silty clay thinly laminated		
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slight biscuiting

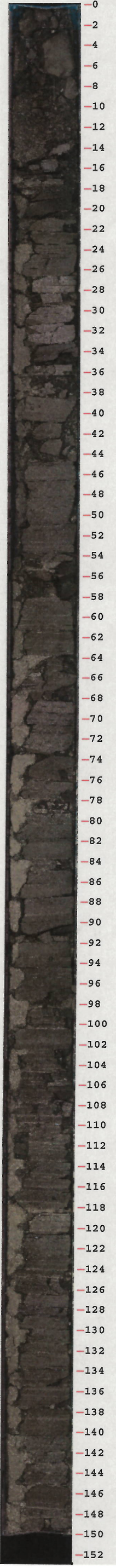
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK / EAC	2-16-19
							Comments	
0							Dark greenish gray Silty clay thinly laminated	
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fall in
+21cm

moderate biscutting



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-16-19
							Comments	
0							0-150cm Dark greenish gray silty clay finly laminated	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-16-19
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-16-19
							Comments	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-16-19
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Dark greenish gray
silty clay thinly
laminated

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							M.E. + J.K	16.2.19
Comments								
0		↑						0-15cm. Dark greenish gray silty clay Thinly laminated throughout.
-2		↑						
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-32		Moderate biscuiting						
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-152		↑						

129cm - Sandy silt - continuous laminae w/ dispersed coarse sand grains

138cm - discontinuous silt layer w/ dispersed coarse sand grains.

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				M.E. + J.K	16.2.19
0									0-149cm Dark greenish gray silty clay Thinly laminated throughout		
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122		Modest									
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148											
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152											
									88cm - granule		

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				M.E. + J.K.	10.2.19
0		moderate							0 - 153cm Dark greenish gray silty clay thinly laminated		
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20		21cm									
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30		Slight									
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38		↑									
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150											
152									145cm - very dark greenish gray lens (pyrite?)		

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/17/19
								Comments
0				2	↑	∅	0-151 cm: dark greenish gray thinly laminated silty clay	
2							0-19cm: decreasing bioturbation intensity downward	
4				9			lower abundance, and thinner silt partings downward in section	
6				1				
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152	151							

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	17/2/19
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PAL

0-8cm Dark greenish gray thinly laminated silty clay

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	17/2/14
0		fall in		↑		↑	0-148cm Dark greenish gray thinly laminated silty clay with intervals of normal grading silt to clay	
2								
4							49cm Normal graded interval	
6								
8							59cm " " "	
10								
12							104cm " " "	
14								
16							139cm pyrite patches below very thin pyrite lens	
18								
20							148	
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biscuit

0

0

49cm Normal graded interval

59cm " " "

104cm " " "

139cm pyrite patches below very thin pyrite lens

148

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 17/2/19
							Comments	
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biscuit

0-148 cm Dark greenish gray thinly laminated silty clay with intervals of normally graded silt to clay. Rare lenticular laminations

38 cm interval of normal grading

65 cm interval of normal grading

80 cm " " " "

132 cm Normal grading

148

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	17/2/19
0									0-147cm Dark greenish gray thinly laminated silty clay with intervals of normally graded silt to clay 8cm very thin black lamina Occasional thin lenticular lamina 35cm smaller grain a-axis 3mm also present 40cm Normal graded interval 78cm Normal graded interval 100cm " " " 122cm " " " 147		
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biscuit

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35cm smaller grain a-axis 3mm also present

40cm Normal graded interval

78cm Normal graded interval

100cm " " "

122cm " " "

147

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Ruthie	2/16/19
0									<p>0-134: very dark gray thinly laminated silty clay</p> <p>with silt laminae, and intervals of normal grading from silt to (silty) clay ↳ e.g., 38, 79, 107cm</p> <p>silt pods/lens at: 1, 8, 15, 24-26, 47-49, 101, 119-124 lenticular 'bedding'</p>		
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Bioturbation

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Puthie	2/17/19
0											
2						0		0		0-59: very dark gray thinly laminated silty clay with silt laminae 10: silt pods slight biscuiting throughout	
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M1

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/17/2019
Comments								
0				0		0	<p>0-148: very dark gray thinly laminated silty clay with silt laminae, intervals of normal grading from silt to (silty) clay ↳ e.g., at 47 cm, 62, 105, 129, 156, 158'</p> <p><u>Disturbances:</u> 0-2: highly fractured 84-89: moderately fractured slight biscuiting throughout</p> <p>silt pods/lens at: 9, 16-18, 34, 51, 76, 86, 100, 121, 132</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	6/17/2019
Comments								
0				0		0	<p>0-100: very dark gray thinly laminated silty clay</p> <p>with silt laminae; intervals of normal grading from silt to (silty) clay e.g., 29, 30, 76 cm</p> <p>silt pods/lens at: 5, 25, 42 cm</p> <p><u>Disturbance:</u> 7-9' highly fractured slightly biscuited throughout</p> <p>82: cluster of coarse sand grains ^{→ ranging ~3 mm} 7 mm wide variable grain lithologies</p> <p>89-91: soft sediment deformation</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 18/2/19
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biscuit

0-149cm Dark greenish gray thinly laminated silty clay with normally graded silt to clay intervals through out. Rare lenticular laminations.

19cm Very thin lens of sand grains
24-28cm tilted laminations

71-77cm dispersed sand grains

124-132cm dispersed sand grains
125cm Very thin lens of sand grains
127cm " " " " " "
129-132cm tilted laminations

149

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/18/19
							Comments	
0							0-150cm: dark greenish gray laminated silty clay	
2							horizontal planar and faning laminations, fining up are also present	
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↑F
97
101
112

133
135
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SS

0-150cm: dark greenish gray laminated silty clay horizontal planar and faning laminations, fining up are also present

Sharp-based normally graded lamination from silt to clay are present throughout

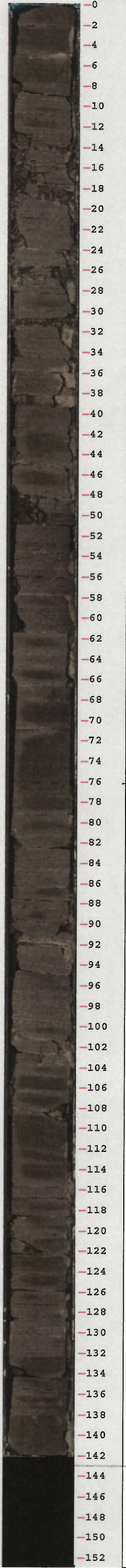
60-69cm: faning lamination

97-112cm: several carbonate-cemented laminae of coarse siltstone to fine sandstone, faning laminations

101cm: deformed laminae
144-147cm: " faning

133-135cm: faning lamination

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	18/2/18
0	biscuit				↑	○	0-143cm Dark greenish gray thinly laminated silty clay with normally graded intervals of silt to clay throughout. Rare lenticular binnations	
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26	biscuit				↑		57cm dispersed sand grains	
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52	biscuit				↑ F		67-68cm subrounded drop stone a-axis 6mm	
54								
56								
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78	biscuit				↑	○	76-77cm black lenses	
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102								
104	biscuit				↓		109-115cm faning laminations 112cm - burrows with black outline 111-117cm - black mottles	
106								
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124								
126								
128								
130	biscuit				↓		140-141cm Greenish gray layer with black lamina	
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148								
150								
152								



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/18/19
							Comments	
0					0	∅	<p>0-147 cm: dark greenish gray silty clay, laminated</p> <ul style="list-style-type: none"> - silt partings are irregular, sometimes discontinuous - Horizontal planar lamination is rare; most laminae are curved with changing thickness across the width of the core (=fanning) - some fining up laminations throughout 	
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40	Fractured							
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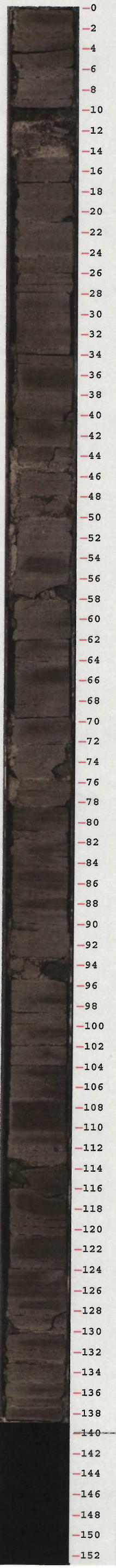
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/18/19
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9	9			0		\emptyset		0-9 cm: dark greenish gray laminated silty clay
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/18/19
Comments								
0	SS	none	[Hand-drawn lithology sketch]	3	[Hand-drawn sedimentary structures sketch]	3	0-45cm: greenish gray bioturbated silty clay, massive	
2								
4								
6								
8								
10								
12								
14								
16								
18								
20	SS	[Hand-drawn lithology sketch]	45	2	[Hand-drawn sedimentary structures sketch]	2	45-91 cm: greenish gray bioturbated silty clay, crudely laminated	
22								
24								
26								
28								
30								
32								
34								
36								
38								
40	SS	[Hand-drawn lithology sketch]	76	1	[Hand-drawn sedimentary structures sketch]	1	91-138 cm: dark greenish gray laminated silty clay	
42								
44								
46								
48								
50								
52								
54								
56								
58								
60	SS	[Hand-drawn lithology sketch]	91	0	[Hand-drawn sedimentary structures sketch]	0	102 cm: silt pod	
62								
64								
66								
68								
70								
72								
74								
76								
78								
80	SS	[Hand-drawn lithology sketch]	138	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	98, 104 and 128 cm: discrete fine sand laminae with horizontal planar lamination < 0.5 cm thick	
82								
84								
86								
88								
90								
92								
94								
96								
98								
100	SS	[Hand-drawn lithology sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	
102								
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114								
116								
118								
120	SS	[Hand-drawn lithology sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	
122								
124								
126								
128								
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134								
136								
138								
140	SS	[Hand-drawn lithology sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	[Hand-drawn sedimentary structures sketch]	
142								
144								
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148								
150								
152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthe	Date: 2/18/2019
							Comments	
0				0		0	0-140: dark greenish gray silty clay thinly laminated	
2							intervals of normally graded silt to silty clay e.g., 38, 43, 121, 125 cm	
4							silt laminae throughout	
6							21: silt pods	
8								
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12								
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52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72							72: silt pods	
74								
76								
78								
80								
82								
84								
86								
88								
90								
92							96-97: deformed laminations	
94								
96								
98								
100								
102							102: possible sand laminae (5mm) or slumy	
104							137, 138: ↑ (~2mm)	
106								
108								
110								
112								
114							113-115: curved lamination	
116								
118							117-119: fanned lamination	
120								
122								
124								
126								
128								
130								
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134								
136								
138							138: silt pods	
140								
142								
144								
146								
148								
150								
152								



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/18/2019
							Comments	
0				0		0	0-105: dark greenish gray silty clay thinly laminated silt laminae throughout intervals of normally graded silt to silty clay, e.g., 7, 41, 54, 71, 73 cm silt pods: 2, 11, 33, 62, 65, 95-97 cm 28: 1 mm grain fanned lamination intervals 21-23, 45-47, 65-68 cm Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
2								
4								
6								
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10								
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16								
18								
20			21				21-23, 45-47, 65-68 cm Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
22			23					
24								
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38								
40							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
42			45					
44			47					
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58								
60							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
62			65					
64			68					
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72								
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76								
78								
80							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
82								
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96								
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100							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
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116								
118								
120							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
122								
124								
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138								
140							Stormy or sand laminae? 102,  13mm 103 25 (5mm) 50 (2mm)	
142								
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146								
148								
150								
152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/18/19
Comments								
0				0		6	0-16: dark greenish gray silty clay thinly laminated 3: silt pods silt laminae throughout	
2								
4							stony or sand laminae? 12:  5mm	
6								
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10								
12								
14								
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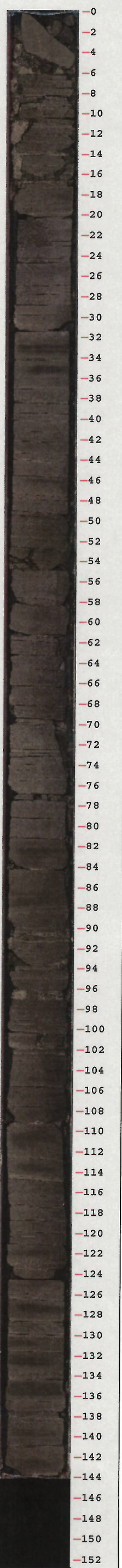
PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
Comments											
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44		slight biscuits									
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152											

0-144cm
 Dark greenish gray
 Silty clay
 thinly laminated (horiz).

- 92cm sandy silt pod

dk. elongate sandy silt pod



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
0									0-144cm Dark greenish gray silty clay thinly laminated (horizontal) 8cm, 67cm silt pods		
2											
4											
6											
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CM Scale

0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152

Slight biscuits



0

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
0									<p>0-144 cm</p> <p>Dark greenish gray silty clay</p> <p>thinly laminated mostly horizontal planar</p> <p>26-29 cm lenticular bedding observed by slight upward bowing cross core surface</p>		
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44	SS 4S cm										
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148											
150											
152											
									<p>120-126 cm slight bioturbation following laminae, few discrete burrows observed</p>		

MSIO

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
0									0-124 cm Dark greenish gray silty clay thinly laminated		
2											
4											
6											
8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30								29cm silt lens			
32											
34											
36											
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40											
42											
44											
46											
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50											
52											
54											
56		Slight				0					
58											
60											
62											
64						0					
66											
68											
70								68 silt lens cm			
72											
74											
76											
78											
80											
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84											
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152											

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
0									0 - 144 cm Dark greenish gray silty clay thinly laminated (mostly horizontal planar)		
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52											
54											
56		Slight									
58											
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148											
150											
152											

60-61cm lenticular beds

84cm silt lense

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK/EAC	2-18-19
Comments											
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64											
66	SS	slight									
67	67										
68	cm										
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150											
152											

0-129cm
Dark greenish gray
silty clay
thinly laminated

38-41cm wavy laminated
appears that coarser grains (sandy
silt were washed out) rippled surface

Tr frags. of pritized
biosilica in smear slides

95-96cm slight offset of laminae
(not drilling disturbance)
syndimentary micro fault

124cm granule (granite)
125cm silt pool

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/18/19
							Comments	
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CM Scale

SS

SS

slight biscuiting

↑
0
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0-138 cm: dark greenish gray silty clay thinly laminated traces of biasil. debris

24: silty lamina with dispersed sand grains

26-27 cm: very thin silt bed with dispersed sand grains

30 cm: two light gray silt lenses

37-38 cm: sandy silt pod

77 cm: silty lamina with dispersed sand grains

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/18/19
							Comments	
0							0-150 cm: dark greenish gray silty clay thinly laminated	
2								
4								
6								
8								
10								
12							71 cm: normal graded silt lamina (3mm) & 77 cm	
14								
16								
18								
20								
22								
24							80-81 cm: very thin lenticular bed (1cm)	
26								
28								
30								
32								
34								
36							92 cm: normal graded silt lamina (3-4mm)	
38								
40								
42								
44								
46								
48							136-137 cm: normal graded silt lamina (4mm)	
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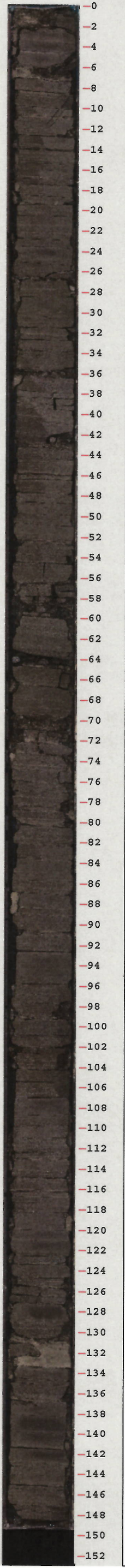
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/18/19
							Comments	
0							<p>0-108 cm: Very dark gray silty clay Thinly laminated</p> <p>16cm: silt lens light gray</p> <p>41cm: silt pod</p> <p>77cm: silt pod & 79cm</p> <p>89cm: granule</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 2/18/19
							Comments	
0								
2								
4						0		0-19cm: Very dark gray silty clay
6								Thinly laminated
8				0				
10								
12								
14						0		2cm: silt lens
16								
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				J.K	18.2.19
0										Comments 0-146 cm: very dark greenish gray silty clay thinly laminated 50-51.5 cm: normally graded silt bed 97-98.5 cm: normally graded silt bed	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JJK	02/18/19
0									Comments		
2									0-150 cm: very dark gray silty clay Thinly laminated		
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0-150 cm: very dark gray silty clay
Thinly laminated

46 cm: two silt lenses

113 cm: silt lens

126 cm: silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPU	02/18/19
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0-45.5 cm: very dark gray silty clay
Thinly laminated

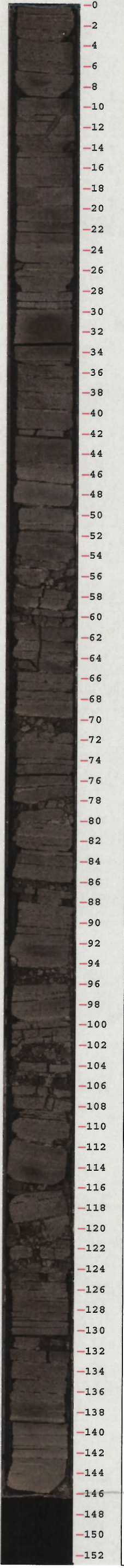
45.5-47.5 cm: sand silt bed greenish gray

47.5-51 cm: silt greenish gray
-> faintly laminated

51-146 cm: very dark gray silty clay
Thinly laminated

68 cm: silt lens

92.5-93.5 cm: two light gray silt layers with chaotic internal structures



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/18/19
							Comments	
0								0 - 142 cm: Very dark gray silty clay Thinly laminated
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4-5 cm: Silt lamina with chaotic internal structure

39 cm: Two silt lenses

127-128 cm: silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/18/19
0										Comments 0-15 cm: Very dark gray silty clay. Thinly laminated 0-2 cm: wavy laminae	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/18/19	
							Comments		
0							0-144 cm: very dark greenish gray silty clay thinly laminated		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/18/19
								Comments
0								0-117 cm: Very dark greenish gray silty clay Thinly laminated
2								
4								20-22 cm: disturbed lenticular silt bed(?)
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							M.E	18.2.19
Comments								
0				1				0-12cm - Dark greenish gray silty clay Thinly laminated
2				1				
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12		12cm		1				
14				1				
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18				1				
20				1				
22				1				
24				1				
26				1				
28				1				12-55.5cm - Dark gray silty clay thinly laminated
30				0				27cm - Sandy silt laminae
32				0				28.5-29cm - Two Sandy silt laminae
34				0				-24.5 - granule
36				0				
38				0				
40				0				
42				0				
44				0				
46		47.5		0				
48				0				
50				0				55.5-64.5cm - Dark greenish gray silty clay Bioturbated with thin laminations
52	SS			0				
54				0				
56				0				
58				0				
60				1				64.5cm - 149cm - Dark gray silty clay Thinly laminated
62				1				
64				1				
66				1				
68				1				-69cm - silt lens
70				1				
72				1				
74				1				
76				1				
78				1				
80				1				
82				1				
84				1				
86		87		1				86cm - normal graded silty laminae
88				1				
90				1				
92				1				
94				1				
96		97		1				
98				1				
100				1				
102				1				102.5-103cm - Two silt laminae with chaotic internal structure
104				1				
106				1				
108				1				
110				1				
112				1				
114				1				
116				1				
118				1				114.5cm - silt laminae with chaotic internal structure
120				1				
122				1				-120cm - Sandy silt pod.
124				1				
126				1				
128				1				
130				1				
132				1				
134				1				133.5cm - silt lens
136				1				
138				1				
140				1				136cm - silt lens
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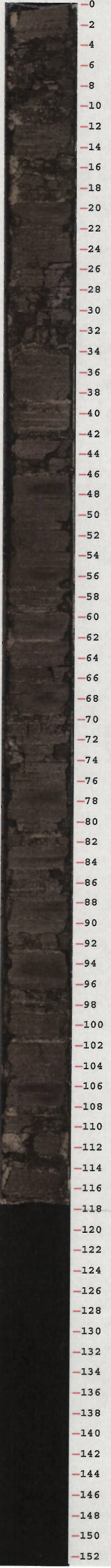
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
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0-118 cm - Dark gray, silty clay
thinly laminated

22.5 cm - Silt lens

93.5 cm - Wavy Silt Laminae

108 cm - Wavy Silt Laminae



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				ME	1802.19
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0-11 cm - Dark gray silty clay
thinly laminated

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
								Comments
0								<p>0-151cm: dark greenish gray silty clay interlaminated w/ sandy silt</p> <p>- discrete coarse silt to fine sand laminae up to 1cm at 9, 63, 66, 86-88, 105, 143cm. Sharp contacts at top and bottom</p>
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"fanning" laminations

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/19/19
							Comments	
0								<p>0-150 cm: dark greenish gray silty clay interlaminated with sandy silt</p> <p>- discrete coarse silt to fine sand laminae at 3-4cm, 117-118cm, 135cm, 0.5-1cm thick with sharp upper and lower contacts</p> <p>- some normally graded laminae e.g. at 55cm</p> <p>- other possible sandy silt laminae at 93 and 102 cm, but disturbed by drilling</p>
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/19
							Comments	
0								0-149 cm Dark greenish gray thinly laminated silty clay with normally graded intervals of silt to clay throughout. Occasional occurrence of silt lenses. Two intervals display fanning laminations
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disturbance

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88-91 cm fanning laminations

128-132 cm " "

149

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	19/2/19
										Comments	
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12											
14										0-12cm Dark greenish gray	
16										thinly laminated silty	
18										clay	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthee	2/19/19
0	7	fall-in		0		0	<p>0-141: dark greenish gray silty clay thinly laminated</p> <p>with interlaminations of silt e.g., 50, 73, 123 cm with sharp upper & lower boundary; ~45 mm thick</p> <p>intervals of normally-graded silt to silty clay e.g., 121 cm</p> <p>fall-in includes green chunk, possibly from an upper greenish-gray layer</p> <p>35: dispersed sand grains</p> <p>42-44: silt lenses</p> <p>"fanned" lamination intervals silt lenses; @ 9, 42-44, 82, 88, 116, 131-134 136-137</p> <p>117: wavy silt laminations</p> <p>136-137: stacked silt lenses</p> <p>scoured bottom inner silt layers visible</p>	
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slight biscuiting

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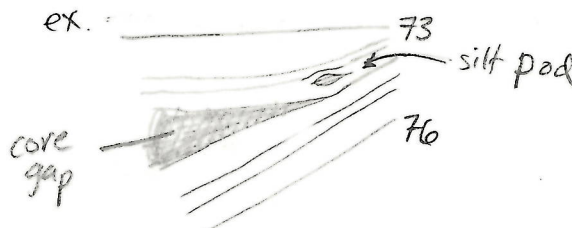
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121

130

137

scoured bottom
inner silt layers visible

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Rutwie	2/19/19
0				0		0	<p>0-150: dark greenish gray silty clay thinly laminated</p> <p>with silt interlaminae, where upper & lower boundaries are sharp, e.g., 29, 69, 96 cm 3-4mm 2mm thick</p> <p>intervals of normally-graded silt to silty clay e.g., 45, 126 cm</p> <p>silt pods/lenses: 3, 23-25, 74, 129, 143-145</p> <p>contains "fanned" lamination intervals ↳ and bowed</p> <p>ex.  silt pod</p> <p>52: 3.5 mm grain (black) with no visible warped lamination</p> <p>92-94: rare sub-mm white pods (silt?)</p> <p>112: silt lamination or stony?</p> <p>146-149: deformed lamination</p>	
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22		slight						
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology c st sd g	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: RR	Date: 19/2/19
							Comments	
0								0-149 cm Dark gray thinly laminated silty clay with interaminations of silt and rare very thin silt beds. Rare silt lenses, lenticular laminations and intervals of normally graded silt to clay silt interaminations + layers have sharp contacts
2								
4								
6								
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72							71-73 silt layer	
74								
76								
78								
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128								
130								
132								
134								
136							136-137 lenticular lamination	
138								
140								
142								
144								
146							148 - dispersed grains + wavy laminations	
148								
150							149 cm	
152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	18/2/19
0									0-150cm Dark greenish gray thinly laminated silty clay with interlaminations of silt		
-2											
-4											
-6											
-8											
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-148											
-150											
-152											

42cm wavy laminations

72-77cm lenticular lamination

136cm silt layer with scoured base

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
								Comments
0								<p>0-145cm: dark greenish gray laminated silty clay</p> <ul style="list-style-type: none"> - discrete silt laminae 2-3mm thick at 24, 121, 134cm - silt lenses at 8, 73, 90-96; smaller <1mm scale lenses throughout (scoured at 96cm)
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145	145				145			
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150								
152								

117-122cm: "fanning" laminations (thickness change across width of core)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/14
							Comments	
0								
2								
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6								
8								
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12								
14								0-12cm Dark greenish gray thinly laminated silty clay. Normally graded 12 interval from silt to clay at 6cm
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
Comments								
0	10			0			<p>0-150 cm: dark greenish gray laminated silty clay</p> <p>-0-128: plane laminated</p> <p>-normally graded lamina at 44 cm</p> <p>-interlaminated with sandy silt at 79 and 111 cm: 0.5-1cm thick</p> <p>mm-scale silt lenses at 53, 65, 148 cm.</p> <p>120cm: clast ~0.5cm in W-half</p> <p>129cm: scoured laminations, curved</p>	
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150	150							

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
								Comments
0						∅	0-151 cm: dark greenish gray silty clay, laminated, rare 2-8 mm silt laminae with sharp upper and lower contacts at 13, 31, 50, 75, 83, 93, 110 cm, 139 cm (perhaps 124 cm?) granule at 6 cm.	
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150								
152	151						113 cm: silt lenses	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	19/2/19
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152											

0-118cm Dark greenish gray
thinly laminated silty clay
with occasional interlaminations
of silt with sharp contacts
Rare lenticular laminae

51cm Scours infilled with
silt

118cm

M

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	19/2/19
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8											
10											
12											
14											
16											
18											
20											
22											
24											
26											
28											
30		biscuit									
32											
34											
36										35 cm silt lense	
38										37 cm " "	
40											
42											
44											
46											
48							↑ F				
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52											
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76							↑ F				
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104		biscuit									
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140							↑ F				
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152											

0-142 cm Dark greenish gray thinly laminated silty clay with occasional interlaminations of silt with sharp contacts. Rare silt lenses and fanning lamina

35 cm silt lense
37 cm " "

73-76 cm fanning lamina with normally graded silt to clay very thin bed with scoured? lower contact

136-137 cm fanning lamina

142

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
0							<p>0-35cm: dark greenish gray laminated silty clay -mm-scale silt laminae</p> <p>contact at 35cm is disturbed - clasts are in slurry, but likely originate from top of green unit</p> <p>35-79cm: greenish gray bioturbated silty clay -dispersed sand and granules -black laminae/burrows 36-37cm</p> <p>granule at 75cm</p>	
2					∅			
4						∅		
6						∅		
8						∅		
10						∅		
12						∅		
14						∅		
16						∅		
18				0		∅		
20						∅		
22						∅		
24						∅		
26						∅		
28	SS					∅		
30						∅		
32						∅		
34						∅		
36						∅		
38	37			35	35	2		
40	SS					∅		
42						∅		
44						∅		
46				3		∅		
48	NONE					∅		
50						∅		
52						∅		
54						∅		
56						∅		
58					SS	∅		
60						∅		
62						∅		
64						∅		
66				4		∅		
68						∅		
70						∅		
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76	76 crack					∅		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
Comments								
0				4				
2				3		∅		0-11 cm: greenish gray bioturbated silty clay
4				3				
6				3				
8				3				
10				3				
12				3				
14				3				
16				3				
18				3				
20				3				11-52 cm: dark greenish gray laminated silty clay
22				3				
24				3				
26				3				
28				3				
30				3				11 cm: gradational, bioturbated contact.
32				3				
34				3				
36				3				
38				3				
40				3				
42				3				
44				3				
46				3				
48				3				
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54	52			0				
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136				0				
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140				0				
142				0				
144				0				
146				0				
148				0				
150				0				
152				0				

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/19/19
Comments								
0								
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20		16		0	↑ ↓	∅ ∅	0-16 cm : dark greenish gray laminated silty clay	
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: <i>Ruthie</i>	Date: <i>2/19/19</i>
							Comments	
0		Fracture Fall-in		0		6	0-147: very dark greenish gray silty clay finely laminated	
2								
4							with silt interlamination, e.g., 49, 133, 137 cm and 96, 121, 125 cm (34 mm thick) (1-2mm thick) sharp upper & lower boundaries	
6								
8							intervals of normal grading from silt to sandy silt, e.g., 121 cm	
10								
12							50, 51: silt lens	
14								
16							57: erosive boundary; likely an artifact of or could be a biscuiting? washed-out silt pod - more likely?	
18								
20							silt lens with 98: scoured basal contact??	
22								
24							101: silt lens with irregular upper boundary	
26								
28							107: silt lens with scoured basal contact(?)	
30								
32							111: silt lens	
34								
36							121	
38								
40							121 125	
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44							133 137	
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152								

slightly biscuited

49

92

93

121

125

133

137

121

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/19/19
							Comments	
0				0		0	<p>0-151: very dark greenish gray silty clay thinly laminated</p> <p>with silt interlamination with sharp upper & lower contacts, e.g., 8, 15, 25 cm (3 mm thick) 30, 41, 115, 124, 149 (1-2 mm thick)</p> <p>27: wavy irregular silt interlamination (could be lenticular lamination)</p> <p>intervals of normal grading from silt to silty clay, e.g., 76, 112 cm</p> <p>small silt lenses: 16, 23, 67, 84, 102, 110, 123, 127 (< 2 mm)</p> <p>large silt lens: 53 (~4 mm thick)</p>	
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slightly biscuted

146: empty lenses (washed out during spitting, likely)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/19
							Comments	
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0-151 cm Very dark greenish gray thinly laminated silty clay with intervals of normally graded silt to clay and occasional inter-laminations of silt

19cm deformed lamina

biscuit

0

○

148cm deformed lamina

-151

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/19/19
							Comments	
0				0		0	<p>0-143: very dark greenish gray silty clay thinly laminated</p> <p>silt interlamination with sharp upper & lower boundaries throughout, e.g., 55-56, 57 (5mm), 95 (4mm), 96 (2mm), 100 (2mm), 113 (3mm), 124, 128, 135 (2mm)</p> <p>intervals of normal grading from silt to silty clay, e.g., 30, 112cm</p>	
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-30							<p>79: dispersed sand grains over discontinuous wavy laminae with scoured base</p> <p>fining upward?</p>	
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slightly viscous

-93 cm

5566

40

54-55-56
57

95

113

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/19
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0-99 cm Very dark gray
thinly laminated silty clay
with occasional intervals
of normally graded silty
to clay. Rare inter laminations
of silt.

31-32 cm deformed lamination

56-54 cm carbonate cemented
sandstone bed

83 cm silt lens

99 cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/10
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14				0		0		0-14cm Very dark greenish gray thinly laminated silty clay
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
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0-150 cm: dark gray to gray laminated silty clay

-20-60 cm: lamination is not planar

- many 1-3mm thick silt laminae throughout

- some normally graded silt laminae, e.g. 57-60 cm

99 cm: scoured lamination within biscuit (undisturbed core)

133 cm: discontinuous burrowed black lamina

57
60
60

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/19/19
							Comments	
0				0			<p>0-148: dark gray silty clay Thinly laminated</p> <p>silt interlamination with sharp upper & lower boundaries throughout, e.g., 68, 75, 104 (3-5 mm thick) 20: silt lens - deformed?</p> <p>intervals of normal grading from silt to silty clay throughout, e.g., 8, 96, 134 cm</p> <p>43: small silt lenses 48: black discontinuous lamination</p> <p>104-106: bowed laminations</p> <p>130-134: bowed laminations</p> <p>144: silt lens</p>	
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moderately bioturbated

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134

144

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology c st sd o	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/19/19
0				0			<p>0-148: dark gray silty clay thinly laminated</p> <p>silt interbeddings throughout, with sharp upper & lower boundaries, e.g., 49, 71, 74 cm (2-4 mm thick)</p> <p>16: washed-out lens, likely silt lens</p> <p>intervals of normal grading from silt to silty clay, e.g., 9, 18, 113, 135 cm</p> <p>33: black lamination, wavy/irregular texture</p> <p>'fanned' laminations 37-48, 90-93, 104-106, 142-145 cm</p> <p>84-85: discontinuous black laminations</p> <p>126: discontinuous silt lamination</p> <p>143-144: dark mottling possible bioturbation? likely pyritized?</p>	
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slightly biscuted

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: <i>Ruthie</i>	Date: <i>2/19/19</i>
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PAL

0-18: dark gray silty clay
thinly laminated
3: normal grading silt to silty clay
6: black mottling, possibly bioturbation

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/19
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0-150 cm Dark gray thinly laminated silty clay. Interlaminations of silt mainly below 115 cm

27 cm silt lens

33 cm block mottling - possible bioturbation (pyrite)

96 cm deformed lamina

115-150 cm Interlaminations of silt

142 cm deformed lamina (drilling disturbance?)

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/19/19
Comments								
0				0		0		0-151: dark gray silty clay thinly laminated
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12								4: black lenses / ^{or} discontinuous laminae
14								5-12: tilted biscuits (drilling disturbance)
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30								mostly horizontal planar laminations, except 30-48cm (cant tell, biscuits slightly rotated), also 115-121, and 144-end.
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124								121-127: carbonate-cemented sandstone chunks gray! (highly fractured & rotated)
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136								132: small silt lenses
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CM Scale

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moderately biscuited

fracture

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/18
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0-148 cm Dark gray thinly laminated silty clay with interlaminae inter laminations of silt. Occasional black lamina, rare silt lenses.

16cm black lamina

20-21cm silt lens with deformed lamina

34cm silt lenses

63-65cm deformed lamina (drilling disturbance?)

67cm mottle

72cm black lamina

104cm black lamina

130 - mottling (black) possible bioturbation??

141 - silt lens

148

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Ruthie	2/19/19
0											
2						0				<p>0-117: dark gray silty clay thinly laminated horiz. planar lamination mostly (some slightly tilting biscuits)</p> <p>intervals of normal grading from silt to sandy silt, e.g., 98, 109 cm</p> <p>silt interlamination with sharp upper & lower boundaries, e.g., 4, 43, 95 cm (2-3 mm thick)</p> <p>97: silt lens/pod 99: very small silt lens/pods</p> <p>78-79: bowed laminations</p> <p>86-87: lenticular ^{silt} laminations</p>	
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moderately biscuited

4

63

78

79

95

86

87

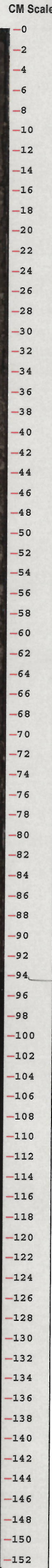
98

109

M

NSLD

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/19/19
							Comments	
0				0		0	<p>0-94: dark gray silty clay thinly laminated</p> <p>silt laminae throughout silt interlamination with sharp upper 1/2 lower boundary can reach ~3mm thickness (e.g., 18, 42, 61 cm)</p> <p>intervals of normal grading from silt to silty clay, e.g., 73 cm</p> <p>10: dark discontinuous lamination</p> <p>46 - truncation - drilling disturbance? 46-49: bowed laminae</p> <p style="text-align: right;">slurry 77 46 49</p>	
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moderately disturbed

18

42

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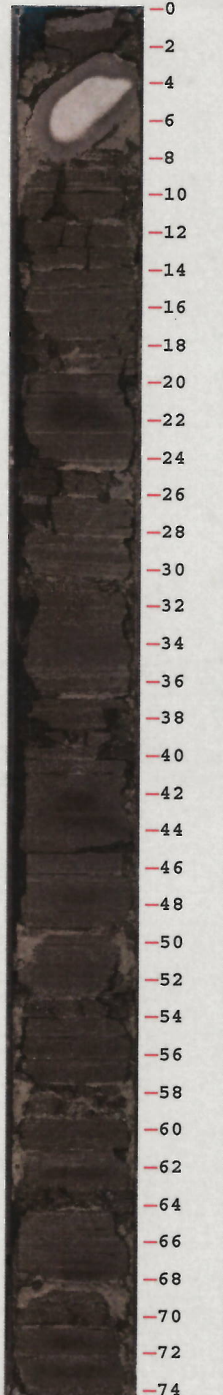
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46 - truncation - drilling disturbance?
46-49: bowed laminae

slurry ~~77~~ 46
49

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 19/2/19
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biscuit

0-75 cm Dark gray thinly laminated silty clay

3-9 cm cemented carbonate sandstone bed
12 cm deformed lamina

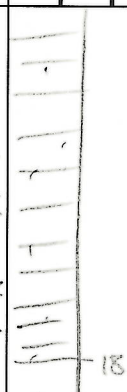
42 cm - silt lens

75

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
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PAL

0-24: dark gray thinly laminated silty clay with silt laminae
 horiz. planar lamination, at least up until 18 cm
 15: flattened burrow



mod. bioturbated



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/19/19
0		fall-in							0-149 cm: dark greenish gray silty clay Thinly laminated 20 cm: normally graded silt lamina		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
							Comments	
0							0-146 cm: Dark greenish gray silty clay Thinly laminated	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
							Comments	
0							0-150 cm: Dark greenish gray silty clay Thinly laminated	
-2								
-4								
-6								
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72.5 - 73.5 cm: light gray cemented carbonate-sand bed with faint black mottling → laminated

76-77 cm: two small silt lenses

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
							Comments	
0							0-138 cm: dark greenish gray silty clay Thinly laminated 10 cm: normally graded silt lamina 30 cm: normally graded silt lamina	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/19/19
Comments											
0											
-2											
-4											
-6								0			0-18cm: Dark greenish gray silty clay Thinly laminated
-8											
-10						0					
-12											
-14											
-16								0			
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK KH	2019/2/19
								Comments
0		↑		0	2cm =		0-2 cm = dark greenish gray silty clay Thinly laminated	
2		↑		↑			2-39 cm = greenish gray clast-poor muddy diamict	
4		↑		4			2-9 cm = faint, discontinuous laminae	
6		↑		↑			2-39 cm = complete bioturbated	
8		↑		↑			bottom boundary = gradational (upper boundary = sharp)	
10		↑		↑			39- : very dark greenish gray bottom silty clay	
12		↑		↑				
14		↑		↑				
16		↑		↑				
18		↑		↑				
20		↑		↑				
22		↑		↑				
24		↑		↑				
26		↑		↑				
28		↑		↑				
30		↑		↑				
32		↑		↑				
34		↑		↑				
36	SS	↑		↑				
38		↑		↑				
40		↑		↑				
42		↑		↑				
44		↑		↑				
46		↑		↑				
48		↑		↑				
50		↑		↑				
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56		↑		↑				
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66		↑		↑				
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70		↑		↑				
72		↑		↑				
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78		↑		↑				
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82		↑		↑				
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120		↑		↑				
122		↑		↑				
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128		↑		↑				
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132		↑		↑				
134		↑		↑				
136		↑		↑				
138		↑		↑				
140		↑		↑				
142		↑		↑				
144		↑		↑				
146		↑		↑				
148		↑		↑				
150		↑		↑				
152		↑		↑				

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK KH	2019/2/19
Comments								
0		↗		↗		↗	0-bottom = very dark greenish gray, silty clay.	
2		—		—		—	thinly laminated	
4		—		—		—	49-50 cm = bioturbation structure (worm tube?)	
6		—		—		—		
8		—		—		—		
10		—		—		—		
12		—		—		—		
14		—		—		—		
16		—		—		—		
18		—		—		—		
20		—		—		—		
22		—		—		—		
24		—		—		—		
26		—		—		—		
28		—		—		—		
30		—		—		—		
32		—		—		—		
34		—		—		—		
36		—		—		—		
38		—		—		—		
40		—		—		—		
42		—		—		—		
44		—		—		—		
46		—		—		—		
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50		—		—		—		
52		—		—		—		
54		—		—		—		
56		—		—		—		
58		—		—		—		
60		—		—		—		
62		—		—		—		
64		—		—		—		
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68		—		—		—		
70		—		—		—		
72		—		—		—		
74		—		—		—		
76		—		—		—		
78		—		—		—		
80		—		—		—		
82		—		—		—		
84		—		—		—		
86		—		—		—		
88		—		—		—		
90		—		—		—		
92		—		—		—	93-94 cm = carbonate cemented sandstone (thin internal laminae)	
94		—		—		—		
96		—		—		—		
98		—		—		—		
100		—		—		—		
102		—		—		—		
104		—		—		—		
106		—		—		—		
108		—		—		—		
110		—		—		—	120.5-121.5 cm = same as 49-50 cm sediment (bioturbated structure, worm tube?)	
112		—		—		—		
114		—		—		—		
116		—		—		—		
118		—		—		—		
120		—		—		—		
122		—		—		—		
124		—		—		—		
126		—		—		—		
128		—		—		—		
130		—		—		—		
132		—		—		—		
134		—		—		—		
136		—		—		—		
138		—		—		—		
140		—		—		—		
142		—		—		—		
144		—		—		—		
146		—		—		—		
148		—		—		—		
150		↘		↘		↘		
152		↘		↘		↘		

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK KH	2019/2/19
								Comments
0								0 - bottom = very dark greenish gray silty clay, thin lamination. 2cm = silt lens.
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105.5 cm : discontinuous irregular black laminae.
(bioturbation by worm tube?)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK - KH	2019/2/19
Comments								
0				↑		↑	0 - bottom: very dark greenish gray silty clay thinly laminated.	
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88-91 = wavy laminae, with silt lense

light gray
 141 cm = carbonate cemented sandstone including black laminae
 146 cm = same as 141 cm

146 cm base = very dark greenish gray silty clay thinly laminated

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK, KH	2019/2/19
Comments								
0				↑		↑	0-69 cm = very dark greenish gray (bottom) silty clay. thinly laminated. 17 cm = silt lense. 40.5-42.5 cm = wavy laminae with a silt lense. (3mm thick) 58 cm = discontinuous, irregular, black lamina possible bioturbation structure (worm tube?) → pyritized.	
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69cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JK KH	2019/2/19
Comments								
0		—		↑		↑	0-15 cm = very dark greenish gray silty clay thinly laminated.	
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Comments	
0							JPK / EAC	2-19-19
2							<p>0-150 cm Very Dark greenish gray silty clay thinly laminated</p> <p>28-36cm, 80-87cm, 125-137cm intervals of mm scale "bright" laminae, silt appears to be <u>cemented</u> with CaCO₃ (fizz in acid)</p> <p>46-47cm black lenses (Fe oxides?)</p> <p>82-83cm silt lenses</p> <p>110cm black laminae (Fe oxides?)</p> <p>116cm 2 silt lenses</p>	
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SS@
93
cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK / EAC	Date: 2-19-19
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Very dark greenish gray
Silty clay
thinly laminated
with light gray carbonate
cemented laminae
11-12cm thin laminae Feoxide?

38-39cm wavy laminae

21-50cm carbonate cemented
silt laminae - lt. gray

93-110cm carbonate cemented
silt laminae lt. gray

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-19-19
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20								8cm black lamina 2mm (Fe oxide?)
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30								21cm silt lense
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-19-19
							Comments	
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0-144cm
 Very dark greenish gray
 silty clay
 thinly laminated

22-23cm 2 silt lenses

42-43cm 2 silt lenses

87-88cm wavy laminae
 (silt is worked out)

99cm wavy laminae 2mm thick

HBIO

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-19-19
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0 - 75.5cm
 very dark greenish gray
 thinly laminated

7cm Normal graded silt lam.

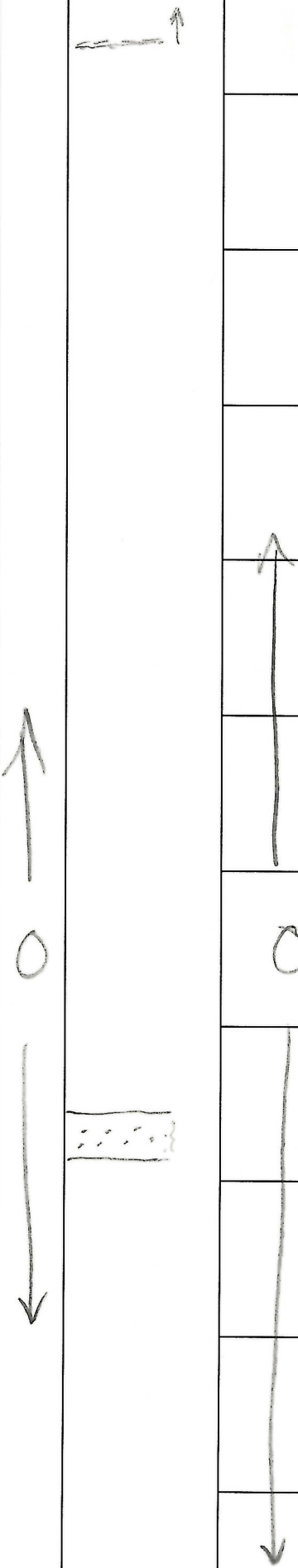
8.5-9.5cm wavy silt lamina

61-63cm wavy silt lamina

75.5-77cm
 lt. gray massive
 silty sandstone, carbonate
 cemented
 upper boundary sharp
 lower obscured

91cm wavy laminae

77-146cm
 v. dk gray silty clay
 thinly laminated



CM Scale
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-19-19
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0-23 cm
Very dark greenish gray
thinly lam. silty clay

10-11 cm lt. gray
silt lenses

23-26 cm light gray
carbonate cemented silty
sandstone with
turn bk laminae

26-60 cm v. dk. greenish gray
silty clay
thinly lam.

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK/EAC	Date: 2-19-19
							Comments	
0		heavy		↑ 0 ↓		↑ 0 ↓	very dark greenish gray silty clay thinly laminated	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/19/19
0									0-150 cm: -Very dark greenish gray silty clay Thinly laminated - Light gray silty laminae tend to have higher carbonate content		
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120 cm: silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
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0-150 cm: Very dark greenish gray silty clay
Thinly laminated
→ light gray silt laminae, higher carbonate content
17-19 cm: Black thin laminae (pyritic?)

73cm: silt lens

91-93 cm: wavy laminae

100 cm: silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
							Comments	
0							0-150cm: very dark greenish gray silty clay Thinly laminated - Light gray (cemented) silt layers are higher in carbonate content	
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66-67cm: silt lens

110cm: black lenticular color change

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
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0-150 cm: very dark greenish gray silty clay
Thinly laminated
- Light gray silt laminae tend to have increased carbonate content

32-33 cm: carbonate-cemented silty sand lamina

55-56 cm: normally-graded silt lamina

91-92 cm: silt lens

146-147 cm: black discontinuous color band

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/19/19
							Comments	
0							0-150 cm: very dark greenish gray silty clay Thinly laminated - Light gray silt laminae tend to have higher carbonate contents (cemented as well as uncemented)	
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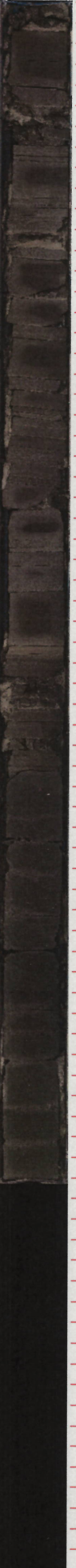
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/19/19
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0-61.5cm: Very dark greenish gray silty clay
Thinly laminated

61.5-64 cm: Normally graded thin silt bed
→ Gray ^{arenaceous} calcshale

64-74.5 cm: dark greenish gray silty clay
Thinly laminated with block mottling at base

74.5-115 cm: Dark greenish gray sandy mud with dispersed clasts
Massive



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/19/19
Comments								
0				4		0	0-12: Dark greenish gray mud with dispersed clasts Massive	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK + ME	19.2.19
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0 - 34cm - Dark gray silty clay
thinly laminated

-34-36cm - ^{light}Carbonate cemented ^{Silt}sandstone
w/ faint black laminae

-36-Base - Dark gray silty clay
thinly laminated

-52cm - Silt lens

101 - Silt lens

109 - Silt lens

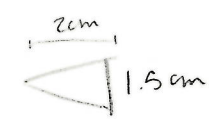
140 - two silt lenses

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK + ME	19.2.19
0									Comments 0-19.5cm - Dark gray silty clay. Thinly laminated		
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:				
							SP	2/20/19				
0	8	⚡		0		∅	<p>0-42 cm: dark gray laminated silty clay</p> <p>42-53 cm: dark gray moderately bioturbated clay with crude laminations</p> <p>22 cm: sharp-based silt lamina</p> <p>24-34 cm: dark laminae</p> <p>38-39 cm: possible lined burrow - semi-horizontal - 4mm d</p> <p>52-57 cm: horizontal burrows, mm-scale</p> <p>57 cm: small pebble between biscuit and liner, seems to have broken off the side of the biscuit</p> <p>53-94 cm: greenish gray bioturbated silty clay w/ dispersed sand and granules</p> <p>94-150 cm: dark (greenish) gray laminated silty clay, slightly bioturbated</p> <p>94-106 cm: dark greenish gray</p> <p>106-150 cm: dark gray</p>					
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/20/19
								Comments
0								0-151cm: dark gray laminated silty clay - mostly planar lamination - silt laminae 3-7mm thick with sharp boundaries are present at 13, 80 and 106cm
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							104cm: silt pod 125-127cm: silt lenses 127cm: mm-scale dark burrow fills	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/20/19
0						0	<p>0-116: dark gray silty clay thinly laminated silt laminae throughout, for example at 68, 69 cm (~2mm thick interlaminae)</p> <p>22-24: deformed laminations</p> <p>52: lighter chunk  NOT carbonate (HCl tested)</p> <p>36-39: <1mm black burrows (also at 78, 108 cm)</p> <p>intervals of normal grading silt to silty clay e.g., 31, 43, 65 cm</p> <p>76-77: deformed laminations</p> <p>73, 77: <1mm pods/lenses 111, 114</p>	
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moderately bioturbated

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Rutvie	2/20/19
0									Comments		
2								0	0-150: dark gray silty clay		
4									thinly laminated		
6											
8											
10											
12									0-1, 12-13 deformed laminations		
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20											
22									silt laminations throughout, for ex.		
24									79, 111, 133 cm (2-3 mm thick interlaminations)		
26											
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34									intervals of normal grading, silt to silty clay		
36									e.g., 74, 107 cm		
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46									33, 46: silt pods/lenses		
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60									60: possible 2mm-long sedimentary intraclast (but washed-out during splitting?)		
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80									75: silt lenses		
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112									103: black burrows < 1mm		
114									106		
116											
118									113: < 1mm orange-colored burrow		
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134									136: < 1mm white lenses/pods		
136									also @ 1, 12, 26, 34 cm		
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CM Scale

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moderately biscuited

79

111

133

101

75: silt lenses

103: black burrows < 1mm

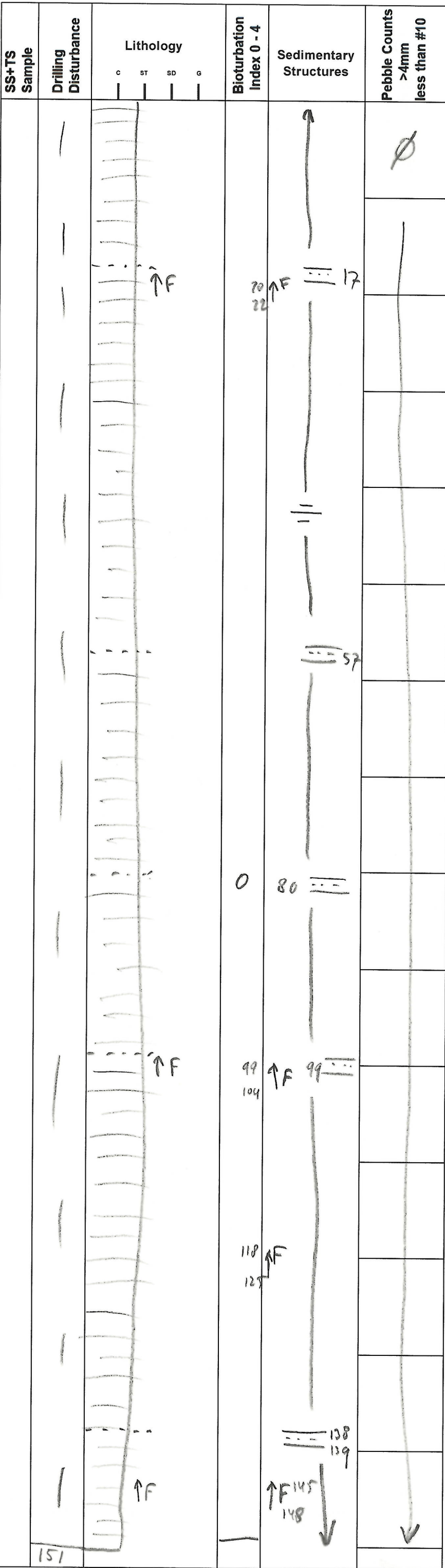
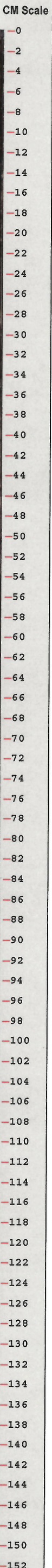
106

113: < 1mm orange-colored burrow

136: < 1mm white lenses/pods

also @ 1, 12, 26, 34 cm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/20/2019
Comments								
0								0-151 cm: dark gray laminated silty clay - mostly planar laminated - some normally graded laminae at 99-104cm, 20-22cm and 118-125cm, 145-148cm - coarse silt to very fine sand laminae, planar laminated and with sharp upper and lower boundaries at 17, 57, 80, 99 cm, 138-139cm, 3-7mm thick
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152	151							



0-151 cm: dark gray laminated silty clay

- mostly planar laminated
- some normally graded laminae at 99-104cm, 20-22cm and 118-125cm, 145-148cm
- coarse silt to very fine sand laminae, planar laminated and with sharp upper and lower boundaries at 17, 57, 80, 99 cm, 138-139cm, 3-7mm thick

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: <i>Ruthee</i>	Date: <i>2/20/19</i>
							Comments	
0				0		0	0-134: dark gray silty clay thinly laminated 10: dispersed sand grains [silt laminae throughout, for ex. 25 cm, ~2mm thick interlamination] [intervals of normal grading, silt to silty clay, e.g., 58, 104 cm]	
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25

moderately bisected

58

86
87

104

↑
0

120

1

130

86-87: 1cm thick carbonate-cemented bed
86: dispersed sand grains

90-97: deformed lamination
49

121: <1mm ^{white} lenses

126: 7mm long dark clast, rounded

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Rutvin	2/20/19
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PAL

0-17: dark gray silty clay
turnly laminated
11: silt interlamination, 2mm thick
14: silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	20/2/18
0		Fall in		↑		↑	0-147 cm Dark gray thinly laminated silty clay. silt laminations throughout. Rare black lamina + silt lenses. Intervals of normal graded silt to clay (silt laminations = interlaminations)	
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-24								
-26								
-28								
-30							24cm black lamina	
-32							31cm " "	
-34								
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-38								
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-52							56cm silt lens	
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-66								
-68								
-70		biscuit					104cm deformed lamina + silt lens	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
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moderately biscuted

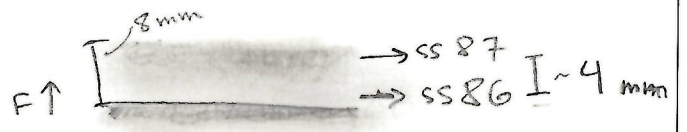
SS 86
SS 87

0-151: dark gray silty clay
thinly laminated

[silt laminae throughout, for ex.
35 cm (~3mm thick interlamination)]

[intervals of normal grading from
silt to silty clay, e.g., 38, 61, 76
cm]

76 normal grading: 2 smear slides



- 70: lens (not as bright as other silt lens)
- 73: silt lens
- 74: silt lens with scoured bottom
- 81: silt lens
- 84: black laminae; irregular / diffuse

126: dispersed sand grains (+1 granule)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 20/2/19
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discrit

51

73

0

0-150 cm Dark gray thinly laminated silty clay with inter laminations of silt and intervals of normal grading of silt to clay with sharp contacts

83 cm deformed lamina

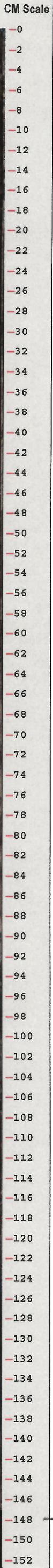
99-100 cm lenticular laminations

128 cm subangular granite? pebble a-axis 4mm

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthee	Date: 2/20/19
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42								16: granule, dispersed sand grains
44								19: dispersed sand grains
46								39: granule, dispersed sand grains
48								→ scoured basal contact
50								50: lens (darker colored than other, ^{smaller} silt lenses, lighter than background matrix)
52								56: dispersed sand grains
54								
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92								92: dispersed sand grains?
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132								126-127: <1mm silt lenses
134								(also 91, 78, 68, 35, 27)
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150								
152								

moderately bisected



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 20/2/19
							Comments	
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0-150 cm Dark gray thinly laminated silty clay with inter-laminations of silt and intervals of normally graded silt to clay

4cm discontinuous/diffusive black lamina

7cm lenticular silt laminations

22cm " " "

25cm deformed lamina

31cm lenticular silt laminations

82-83cm deformed laminations (drilling disturbance?)

130 cm silt lens

131cm black lamina

150

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/20/19
0		Fracture					<p>0-124: dark gray silty clay thinly laminated</p> <p>silt laminations throughout, for ex. 90, 103 cm (~4-5 mm thick interlaminations)</p> <p>12: 2mm granule, light-colored (granite??) intervals of normal grading from silt to silty clay,</p> <p>30-34: possible fanned laminations</p> <p>35: black burrow</p> <p>53-54: very small <mm black burrows</p> <p>59: 2mm granule aligned horizontally</p> <p>76-85: occasional <mm white lenses</p> <p>108: lens, or possibly injected slurry...</p> <p>115: dispersed sand grains (up to ~1mm)</p>	
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moderately bisected

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: <i>RJR</i>	Date: <i>20/2/19</i>
							Comments	
0							0-16cm Dark gray thinly laminated silty clay with intervals of normally graded silt to clay 16 cm black laminae	
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PAL

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SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
		C	ST	SD	G				Ruthie	2/20/19
	fractured						○ ↓			
"								[intervals of normal grading silt to silty clay		
								13: 2 grains (~1mm) 25: 1 grain (~1mm)		
								19: very small <<mm black burrows		
								33: dispersed sand grains		
								37: possible burrows (~1mm)		
								silt laminae throughout, up to ~2mm thick (ex. @ 65, 137 cm)		
								64: possible silt lens (washed out)		
								80-85: bowed laminations		
								81: very small <<mm black burrows		
								94: dispersed sand grains		
								107: dispersed sand grains		
								113: very small <<mm black burrows		
								119		
								128		
								137		
								141: silt lenses		

moderately bioturbated



65

80

85

137

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/20/19
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moderate discuffing

0-145: dark gray silty clay, thinly laminated
 9-11: "fanned" laminations
 11-14: deformed laminations, around a washed-out mold/cast - possibly was silt-filled, inner ridges remain
 30: very small burrows < 1mm
 intervals of normal grading from silt to silty clay
 silt laminations throughout, up to 5mm thick interlaminations with sharp upper & lower boundaries, e.g. @ 33, 47, 103, 112 cm
 56-66: interlaminated silty clay with carbonate-cemented silt and sand in deformed lenticular bedding
 (* close-up photo requested of this interval)
 69: wavy laminae
 79: silt lens
 101: dispersed sand grains
 139, 141: very small < 1mm black burrows
 144: dispersed sand grains (up to 1mm)

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Rutlie	Date: 2/20/19
							Comments	
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moderate bioturbation

2-151: dark gray silty clay
thinly laminated
[silt laminae throughout, up to ~5mm
(e.g., 74, 106, 135, 136 interlamination 3-5mm)]
10-13: very small <2mm white lenses
20: ~2mm cluster of grains that have been washed out
24: dispersed sand grains
[intervals of normal grading from silt to silty clay throughout]
50, 54: silt interlamination or slurry?
100-102: bowed lamination
121: bowed lamination
125: dispersed sand grains (and very small white lens/pods)
128: sand grain ~1mm

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: Ruthie	Date: 2/20/19
							Comments	
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40	SS89	moderately bisected						
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0-56: dark gray silty clay
thinly laminated

silt laminae throughout, with sharp upper & lower contacts, e.g., 27, 28, 31, 33cm interlaminae 3-5mm thick

21: washed out *pad/lens*

21: very small \ll mm black burrows

23-24: deformed laminations

intervals of normal grading silt to silty clay

27
28
31
33

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/20/19
								Comments
0		—		0	↑ — ↓	Ø ↓	0-13cm: dark gray thinly laminated silty clay	
2		—					one 3-mm thick silt lamina at 1cm	
4		—						
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				Rutledge	2/20/19
0								0			
2										0-150: dark silty clay interlaminated gracy with silt laminae ~1-3 mm thick, spaced 2-15 mm apart generally	
4											
6										intervals of normal grading from silt to silty clay, throughout	
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67										67-70: deformed laminations	
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123										125, } silt lens with irregular upper boundary, 129, } or stormy injection?? 137, }	
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moderately biscuited



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/20/19
Comments								
0								<p>0-118 cm: dark gray interlaminated silt and clay</p> <ul style="list-style-type: none"> - planar laminated - common normally graded laminae, mm to cm-scale, sharp-based <p>73 cm: soft-sediment deformation</p> <p>78-79 cm: 7mm thick silty sand lamina</p>
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JP	2/20/19
0							Comments	
2							0-145 cm: dark gray laminated silty clay	
4						∅	- planar laminated	
6							- common normally graded laminae	
8							- section 4 is more clay dominated than section 3 above 87 cm	
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100							100 cm: 5mm thick coarse silt lamina w/ sharp upper and lower boundaries	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	20/2/19
0							<p>0-145cm Dark gray thinly laminated silty clay with normally graded silt to clay intervals throughout. < 2mm thick inter laminations of silt. Two distinct light gray cemented carbonate beds</p> <p>53-54cm Cemented carbonate bed, light gray</p> <p>57-58cm Cemented carbonate bed, light gray</p> <p>76cm lenticular silt laminations</p> <p>96cm " " "</p> <p>104-105cm fanning lamina</p> <p>145cm</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Ruthie	2/20/19
Comments								
0				0		○	0-73: dark gray silty clay thinly laminated intervals of normal grading silt to silty clays, throughout 19-23: bowed laminations silt interlamination throughout, 1-3 mm thick, with sharp upper & lower boundaries 48-51: fanned laminations	
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moderately biscuted

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Rutlie	2/20/19
Comments								
0				0			0-17: dark gray silty clay, thinly laminated Normally graded from silt to silty clay, throughout silt interlaminae 1-3 mm thick	
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/20/19
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0-51 cm: Dark greenish gray silty clay

20-28 cm: Three distinct greenish gray mud clasts in heavily disturbed upper part of section

28-149 cm: Thinly laminated

51-56 cm: light gray carbonate-cemented silt or sandstones brecciated → faintly laminated

56-149 cm: Dark greenish gray silty clay Thinly laminated

78 cm: silt lens

80 cm: normally graded silt lamina

fall-in



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK + ME	20.2.19
Comments								
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O-Base - Dark greenish gray silty clay
Thinly laminated
5cm - normally graded silt lamina

71cm - normally graded silt lamina

73-74cm - wavy ^{silt} lamina

89cm - normally graded silt

107cm - normally graded silt lamina

126cm - normally graded silt lamina

128cm - normally graded silt lamina

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK, EC, ME	Date: 20.2.19
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0-80cm - Dark greenish gray silty clay, thinly laminated

23cm - normally graded silt lamina

55cm - normally graded silt lamina

80-82cm - carbonate cemented silt sandstone - gray

82cm Base - dark greenish gray silty clay (thinly laminated)

95cm - normally graded silt lamina

119cm - normally graded silt lamina

133cm - normally graded silt lamina

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK, EC, ME	20.2.19
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0-Base - Dark greenish gray silty clay thinly laminated

(light gray silt laminae generally contain carbonate)

23.5-24cm - silt lamina w/ authogenic carbonate

31.5cm - normally graded silt laminae

38cm - normally graded silt laminae

45cm - normally graded silt laminae

64cm - normally graded silt laminae

89cm - wavy laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				E.C. + M.E	20.2.19
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PAL

0-13cm - Dark greenish gray silty clay
Thinly laminated

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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				EAC/JPK	02/20/19
0		fall-in							0-7 cm : fall-in from barite 7-150 cm : dark greenish gray silty clay Thinly laminated Spacing between silt laminae: 3mm - 2cm		
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59cm : normally-graded silt lamina

67cm : normally graded silt lamina

135cm : wavy laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							EAC/JPK	02/20/18
Comments								
0								
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
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60								
62								
64								
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68								
70								
72								
74								
76								
78								
80	SS							
82								
84								
86								
88								
90								
92								
94								
96								
98								
100								
102								
104								
106								
108								
110								
112								
114								
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120								
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126								
128								
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132								
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136								
138								
140								
142								
144								
146								
148								
150								
152								

0-150 cm: Dark greenish gray silty clay
Thinly laminated

38-40 cm: two normally graded silt laminae

51 cm: normally graded silt lamina

100 cm: normally graded silt lamina
light gray, faintly laminated
sharp lower boundary

114-115 cm: carbonate-cemented sandstone
□ H. gray faintly laminated

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPW	Date: 02/20/19
							Comments	
0								
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
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42								
44								
46								
48								
50								
52								
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130								
132								
134								
136								
138								
140								
142								
144								
146								
148								
150								
152								

0-150 cm: Dark greenish gray silty clay
Thinly laminated

64.5 cm: normally-graded silt lamina

71 cm: Discontinuous mm-thick black lamina → Fe-oxide?

104 cm: wavy cm-thick beds

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC / JPK	Date: 02/20/19
							Comments	
0							0-150 cm: dark greenish gray silty clay, Thinly laminated	
2								
4							33 cm: normally graded silt lamina	
6								
8							↑	
10								
12							↑	
14								
16							○	
18								
20							↓	
22								
24							↓	
26								
28							↓	
30								
32							○	
34								
36							↓	
38								
40							↓	
42								
44							↓	
46								
48							↓	
50								
52							↓	
54								
56							↓	
58								
60							↓	
62								
64							↓	
66								
68							↓	
70								
72							↓	
74								
76							↓	
78								
80							↓	
82								
84							↓	
86								
88							↓	
90								
92							↓	
94								
96							↓	
98								
100							↓	
102								
104							↓	
106								
108							↓	
110								
112							↓	
114								
116							↓	
118								
120							↓	
122								
124							↓	
126								
128							↓	
130								
132							↓	
134								
136							↓	
138								
140							↓	
142								
144							↓	
146								
148							↓	
150								
152							129 cm: normally graded silt lamina	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/20/19
							Comments	
0								
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40				0				
42								
44								
46						0		
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								
78								
80								
82								
84	SS							
86								
88								
90								
92								
94								
96						3		
98								
100	SS							
102								
104	SS							
106				4				
108								
110								
112								
114								
116						0		
118								
120								
122								
124								
126								
128								
130								
132				3				
134								
136								
138	SS							
140								
142				2				
144								
146								
148								
150								
152								

0-90.5 cm :- Dark greenish gray silty clay
Thinly laminated
- Sharp, irregular lower boundary with granules and pebbles

71cm : silt lens
SS @ 84cm 30% silt 70% clay

88cm : black color band (1cm)

90.5 - 126 cm :- Dark gray clast-poor muddy diamict, massive

126-145 cm :- Greenish gray silty clay with scattered coarse sands and granules
- Dark greenish gray color bands

- Between 132 and 135 cm distinct oval burrows (Ø 1cm)

- Bioturbated silt layers at 130, 135 and 140cm

- 126-129 cm : Burrows overlap and elongate along the silt laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/20/19
							Comments	
0				2			0-12 cm: Greenish gray silty clay with dark greenish gray color banding Thinly laminated - bioturbated 0-8 cm: burrowing (elongated between 3 and 6 cm) 12-51.5 cm: Dark greenish gray silty clay Thinly laminated 15 cm: normally graded silt laminae 21.5 cm: normally graded silt laminae 29 cm: normally graded silt laminae 38 cm: normally graded silt laminae	
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
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128								
130								
132								
134								
136								
138								
140								
142								
144								
146								
148								
150								
152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/22/19
							Comments	
0						∅	0-150 cm: dark gray laminated silty clay - mostly horizontal planar lamination - normally graded laminae are common between 52-150 cm - possible burrow at 28 cm - granules at 76 and 78 cm	
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28				1				
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54				↑F				
56								
58				↑F				
60								
62								
64								
66								
68								
70								
72								
74								
76								
78				↑F				
80								
82								
84								
86								
88								
90				≈88				
92								
94				↑F				
96								
98								
100								
102								
104								
106								
108				-106				
110								
112								
114								
116								
118								
120				↑F				
122								
124								
126								
128								
130								
132								
134								
136								
138								
140								
142								
144								
146								
148								
150								
152								

88cm: deformed laminae (loading?)

106 cm: small silt lens

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BFR	Date: 21/2/19
							Comments	
0								
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
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27								
28								
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142								
144								
146								
148								
150								
152								

M

NBIO

0-112cm Dark gray thinly laminated silty clay with intervals of normally graded silt to clay throughout

20cm silt lens
27cm black mottling - possible burrows?

39cm black mottling

54-58cm bowed/deformed laminations - possible drilling disturbance?

80cm Thinly laminated silt layer
82cm Black mottling - possible burrow?

100-103cm Lenticular silt laminations

112

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/22/19
								Comments
0								0-151 cm: dark gray laminated silty clay - mostly planar laminated - common normally graded laminae 22cm: silt lens packages of mm-scale silt laminae at 22, 28, 37, 58, 85, 103, 140 cm.
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22				↑F 22				
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66				0				
68								
70								
72								
74								
76								
78								
80								
82								
84								
86								
88								
90								
92								
94								
96								
98								
100								
102								
104								
106								
108								
110								
112								
114								
116								
118								
120								
122								
124								
126								
128								
130								
132								
134								
136								
138								
140								
142								
144								
146								
148								
150								
152	151							

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/22/19
								Comments
0								0-18 cm: dark gray laminated silty clay
2						∅		
4								- mostly planar laminated
6								
8								- package of silt laminae, mm-scale, at 2 cm
10				0	↑F			
12								- normally graded laminae are present
14								
16								
18		18						
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
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52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
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78								
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84								
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88								
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92								
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96								
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100								
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110								
112								
114								
116								
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120								
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128								
130								
132								
134								
136								
138								
140								
142								
144								
146								
148								
150								
152								

PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	22/2/19
0									0-133 cm Dark gray thinly laminated silty clay with intervals of normally graded silt to clay throughout		
-2											
-4											
-6											
-8											
-10											
-12											
-14											
-16											
-18											
-20											
-22											
-24											
-26											
-28											
-30											
-32											
-34											
-36							↑ F				
-38							↑ F				
-40							↑ F				
-42							↑ F				
-44							↑ F				
-46							↑ F				
-48							↑ F				
-50							↑ F				
-52							↑ F				
-54							↑ F				
-56							↑ F				
-58							↑ F				
-60							↑ F				
-62							↑ F				
-64							↑ F	○			
-66							↑ F				
-68							↑ F				
-70							↑ F				
-72							↑ F				
-74							↑ F				
-76							↑ F				
-78							↑ F				
-80							↑ F				
-82							↑ F				
-84							↑ F				
-86							↑ F				
-88							↑ F				
-90							↑ F				
-92							↑ F				
-94							↑ F				
-96							↑ F				
-98							↑ F				
-100							↑ F				
-102							↑ F				
-104							↑ F				
-106							↑ F				
-108							↑ F				
-110							↑ F				
-112							↑ F				
-114							↑ F				
-116							↑ F	○			
-118							↑ F				
-120							↑ F				
-122							↑ F				
-124							↑ F				
-126							↑ F				
-128							↑ F				
-130							↑ F				
-132							↑ F				
-134							↑ F				
-136							↑ F				
-138							↑ F				
-140							↑ F				
-142							↑ F				
-144							↑ F				
-146							↑ F				
-148							↑ F				
-150							↑ F				
-152							↑ F				

fold in

biscuit

78 cm thinly laminated silt
80 cm " " " "

103 cm mottling

119 cm mottling

128 cm soft sediment clast
a-axis 4 mm

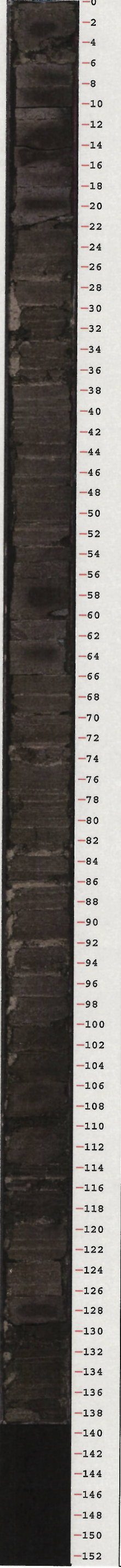
133

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							BR	22/2/19
0							Comments	
2							0-147cm Dark gray thinly laminated silty clay with normally graded silt to clay throughout	
4								
6								
8								
10								
12								
14								
16								
18								
20								
22							21-22 carbonate cemented thin silt bed	
24								
26								
28								
30								
32								
34								
36								
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42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76							76cm lenticular laminations	
78								
80								
82								
84								
86								
88								
90								
92								
94								
96								
98								
100								
102								
104								
106								
108								
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142								
144								
146								
147							147	
148								
150								
152								

biscuit

147

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/22/19
							Comments	
0								0-140 cm: dark gray laminated silty clay - mostly planar laminated - normal graded laminae are common
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
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132								
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138								
140								
142	140							
144								
146								
148								
150								
152								



↑ 18
 ↓ 24
 ↑ F
 ↑ F
 ↑ F
 52
 0
 ↑ F
 ↑ F
 98
 107 ≈
 ↑ F
 140

18-24 cm: small silt lenses
 52 and 98 cm: packages of mm-scale silt laminae
 107 cm: wavy laminae

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/22/19
Comments								
0						∅	0-150 cm: dark gray laminated silty clay	
2							- mostly planar laminated	
4							- normally graded laminae are common	
6								
8								
10								
12					↑F			
14								
16								
18								
20								
22								
24								
26								
28								
30					-29			
32							- packages of mm-scale silt laminae at 45-49 cm and 75 cm.	
34								
36								
38								
40								
42								
44								
46								
48					↑F			
50								
52								
54								
56								
58								
60								
62								
64								
66					0			
68								
70								
72								
74								
76								
78								
80					75			
82								
84								
86								
88								
90					↑F	✓		
92								
94					↑F		96 cm: intradist, 8mm ∅	
96								
98								
100								
102								
104								
106								
108								
110								
112								
114								
116								
118								
120								
122								
124								
126					↑F			
128					126			
130								
132								
134								
136								
138					↑F			
140								
142								
144								
146								
148								
150								
152			150					

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 22/2/19
							Comments	
0								<p>0-151cm Dark gray thinly laminated silty clay with intervals of normally graded silt to clay throughout</p> <p>19cm mottling 24cm deformed lamination</p> <p>72cm silt lens</p> <p>96-91cm deformed lamination drilling disturbance? 93cm mottling</p> <p>107cm silt lens</p>
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
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142								
144								
146								
148								
150								
152								

biscuit

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/22/19
Comments								
0-146 cm				0	Thin horizontal laminations		Dark greenish gray silty clay Thinly laminated	
27-33 cm					Thin horizontal laminations		slightly bioturbated more greenish silty clay Thinly laminated	
30 cm				1	Thin horizontal laminations with small pebbles		sandy silt layer	
31 cm					Thin horizontal laminations with small pebbles		normally graded silt lamina	
40 cm					Thin horizontal laminations with small pebbles		normally graded silt lamina	
65-67 cm					Fanning laminations	0	fanning laminations	
113 cm					Thin horizontal laminations with small pebbles		normally graded silt lamina	
121-123 cm				1	Thin horizontal laminations		slightly bioturbated	
133-134 cm					Thin horizontal laminations with small pebbles		normally graded silt lamina	
143-144 cm					Thin horizontal laminations		normally graded thin silt bed	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	02/22/19
Comments								
0-12 cm		fall-in		0			Dark greenish gray silty clay Heavily disturbed by fall-in	
12-28 cm		biscuiting		2			Faintly laminated sandy silt with dispersed coarse sand grains and one granule at 17 cm	
28-35 cm	SS @ 28 cm			1			Laminated very dark greenish gray silt with slight bioturbation	
35-148 cm							Dark greenish gray silty clay Thinly laminated	
31 cm						0	Normally graded silt lamina	
70 cm							Normally graded silt lamina	
86 cm		biscuiting		0			normally graded silt lamina	
108 cm							normally graded silt lamina	
115 cm							normally graded silt lamina	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK	02/22/19
0									Comments		
2									0-47cm: Dark greenish gray silty clay		
4									Thinly laminated		
6									47-70cm: Dark greenish gray silty clay		
8									Laminated		
10									70-148cm: Dark greenish gray silty clay		
12									Thinly laminated		
14											
16											
18											
20											
22											
24											
26											
28											
30											
32											
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68											
70											
72									72 cm: normally graded silt lamina		
74									(SS silty clay)		
76											
78											
80											
82											
84									84 cm: normally graded silt lamina		
86											
88											
90											
92											
94											
96											
98											
100									100 cm: normally graded silt lamina		
102											
104											
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112											
114											
116											
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120											
122											
124									125 cm: normally graded silt lamina		
126											
128											
130											
132									134 cm: normally graded silt lamina		
134											
136											
138											
140											
142											
144									143 cm: normally graded silt lamina		
146											
148											
150											
152											

CM Scale

SS @ 77cm

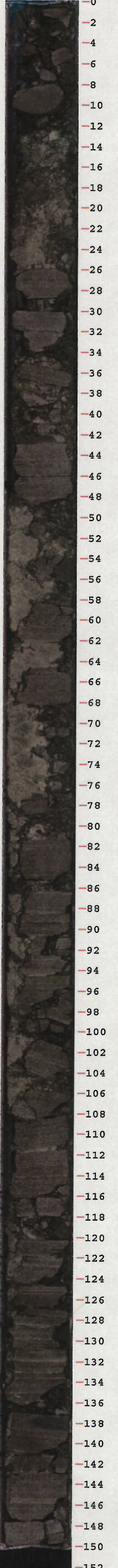


CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/22/19
							Comments	
0				1	—		0-9 cm: Dark greenish gray silty clay. Thinly laminated.	
2					—			
4					—		9-150 cm: u	
6					—			
8		↑			—			
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58					—			
60					—			
62					—			
64					—			
66					—			
68					—			
70					—			
72					—		74 cm: Normally graded silt lamina	
74				0	○	0		
76					—		85-86 cm: Two normally graded silt laminae	
78					—			
80					—		89 cm: Normally graded silt lamina	
82					—			
84					—			
86					—			
88					—			
90					—			
92					—			
94					—			
96					—			
98					—			
100					—			
102					—			
104					—		108 cm: Normally graded silt lamina	
106					—			
108					—		115-116 cm: Two normally graded silt laminae	
110					—			
112					—			
114					—			
116					—			
118					—			
120					—			
122					—			
124					—			
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128					—			
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134					—			
136					—			
138					—			
140					—			
142					—			
144					—			
146					—			
148					—		148/149 cm: Black color band	
150					—			
152					—			

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Comments	
0							EAC / JPK / me	02.22.19
2		Wavy		↑	○	○	0-13cm - Dark greenish gray silty clay. thinly laminated. 5cm - Dark gray/black clay lamina 7cm - Dark gray/black clay lamina (silt layer visible) 8cm - normal graded silt lamina 0-4cm - highly disturbed ↓ Bisected and turned on side	
4	4cm							
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC, ME, JPK	Date: 2-22-19
							Comments	
0						0	Dark greenish gray silty clay thinly laminated	
2						0		
4						0	82cm 1 granule	
6						0		
8						0	40 muscovite granite pebbles cm	
10						1		
12						0	94cm Normal grading (lamina)	
14						0		
16						0	114cm Normal grading (lamina)	
18						0		
20						0	123 cm Normal grading (lamina)	
22						0		
24						0	134.5 cm granules	
26						0		
28						0	132 cm Normal grading (lamina)	
30						0		
32						0	139 cm Normal grading wavy laminae	
34						0		
36						0	146.5 4mm Normal (lamina) cm	
38						0		
40						0	150 cm - small silt pod	



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: JPK	Date: 02/22/19
							Comments	
0		⚡					0-150 cm: Dark greenish gray silty clay Thinly laminated	
2								
4							34 cm: normally-graded silt lamina	
6								
8		↑					68 cm: normally graded silt lamina	
10								
12								
14								
16		↑						
18								
20								
22								
24		↑						
26								
28								
30								
32		↑						
34								
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40		↑						
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144		↑						
146								
148								
150								
152								

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC	Date: 2-22-19
							Comments	
0		⚡		0		0	Dark greenish gray silty clay horiz. laminated 10cm	
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							JPK	2-22-19
Comments								
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0-150 cm: dark greenish gray silty clay
thinly laminated

37 cm: Pyrite-bearing ortho-quartzite, 2.5 cm, sub-angular
Deformed laminae above and below

39 cm: silt pod

51 cm: normally graded silt laminated

60 cm: =

51-55.5 cm: faintly-laminated

92 cm: normally-graded silt lamina

147.5 cm: normally-graded silt lamina

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/22/19
							Comments	
0				2				0-12 cm: Greenish gray silty clay Massive with gray color bands
2								12-23 cm: Greenish gray silty clay Thinly laminated
4								23-30 cm: Very dark greenish gray silty clay Thinly laminated
6				0		↑		30-34 cm: Very dark greenish gray silty clay Thinly laminated
8								34-116 cm: Dark greenish gray silty clay Thinly laminated Faintly laminated Traces of diatoms
10				2				30-34 cm: Fanning lamination
12								
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18								
20								
22								
24								
26								
28								
30								
32								
34	SS							
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66								66.5 cm: Milky quartz, 5mm
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92								
94								
96								
98								
100								
102								
104								104 cm: normally-graded silt lamina
106								106 cm: "
108								110 cm: "
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152								

M

HBIO

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/22/19
							Comments	
0								
2								0-150 cm: dark greenish gray silty clay Thinly laminated
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152								

61 cm: normally graded silt lamina

123 cm: granite

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology c ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: EAC/JPK	Date: 02/22/19
							Comments	
0							0-140 cm: Dark greenish gray silty clay Thinly laminated	
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60				0				
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56 cm: normally graded silt lamina

75 cm: normally graded silt lamina

106 cm: normally graded silt lamina

119 cm: normally-graded silt lamina

127-129 cm: Very dark greenish gray clay

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Comments	EAC/JPK
0								
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4								
6								
8				0		0		
10								
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PAL

0-12 cm: Dark greenish gray silty clay Thinly laminated

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				JPK, ME	22.2.19
0											
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4											
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152											

0-Base Dark greenish gray silty clay
thinly laminated

-12cm - Normal grading silt lamina

-24cm - Normal grading silt lamina

36cm - Wavy silt lamina

52-57cm - Interbed of laminated silts
(light gray → dark gray)

63cm - 2 granules

75cm - Normal grading silt lamina

107cm - Normal grading silt lamina



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				ME	02/22/19
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26						0					
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42											
44						44					
46						1					
48						46					
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82						0					
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136						1					
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140						141					
142						0					
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152											

0-Base: Dark greenish gray silty clay
Thinly laminated

10.5cm - Normal grading silt lamina

26cm - Normal grading silt lamina

44cm - Normal grading silt lamina

52-53cm Normal grading silt lamina

78.5cm - Normal grading silt lamina

99.5cm - Silt lenses

113-114cm - Normal grading silt lamina

128cm - Black v. thin clay bed

143cm - Silt lens

144cm - Normal graded silt lamina

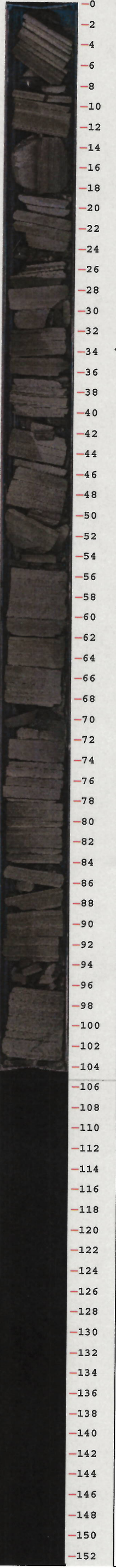
CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							Comments	
0								2-22-19
2							0-87cm Dark greenish gray silty clay finely laminated granule at 2cm normal graded lamina at 26cm " " " " 39cm " " " " 49cm " " " " 55cm	
4								
6								
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10								
12								
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							EAC & JPK	2-22-19
Comments								
0-8cm				0		0	Dark greenish gray silty clay thinly laminated	
8-21.5cm				3		0	Dark greenish gray silty clay, heavily bioturbated faintly laminated	
21.5-31cm				4		2	Greenish gray sandy mud with heavily bioturbated dispersed clasts	
at 21cm				2		0	granite 4mm	
25				1		0	sandstone 4mm	
53cm				0		0	normally graded laminae (SH)	
58cm				0		0	31-45cm gradual color change to dark greenish gray, silty clay thinly laminated	
45-48cm				1		0	silty clay with changing amounts of bioturbation	
48-64cm				0			no bioturbation	
64-71cm							slight bioturbation	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts		Logged By:	Date:
			C	ST	SD	G			>4mm	less than #10	JPK	2-22-19
Comments												
0						↑		↑		Dark greenish gray silty clay, turbid laminated		
2						0	↑	0				
4										10-11 cm normal graded bed		
6						↓		↓				
8												
10												
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PAL

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology				Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
			C	ST	SD	G				BR	23/2/19
0									Comments		
2									0-105 cm Dark gray thinly laminated silty clay with occasional intervals of normally graded silt to clay		
4											
6											
8											
10											
12											
14											
16											
18											
20											
22									7cm wavy lamination		
24									21cm black lamina		
26									34 cm bioturbated		
28											
30											
32											
34	SS										
36											
38											
40											
42											
44											
46											
48											
50											
52											
54											
56											
58	SS										
60											
62											
64											
66											
68											
70											
72											
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76											
78											
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82											
84											
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92											
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96											
98								1			
100											
102								0			
104									101cm Pebble, subrounded, a-axis 4.6mm, (ripped out of A-half 105 but present in W-half)		
106											
108											
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biscuit

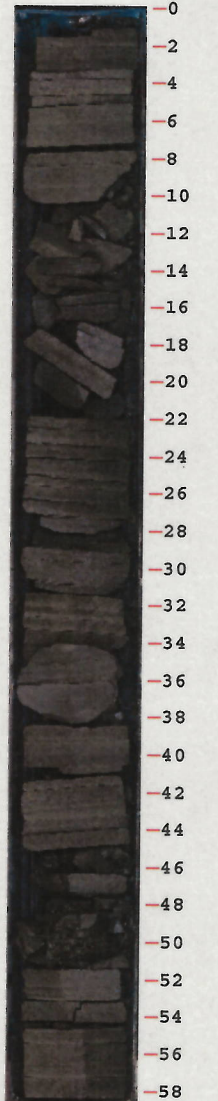
biscuit

F

↑
F

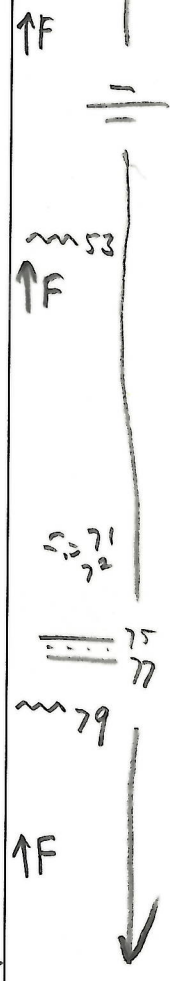
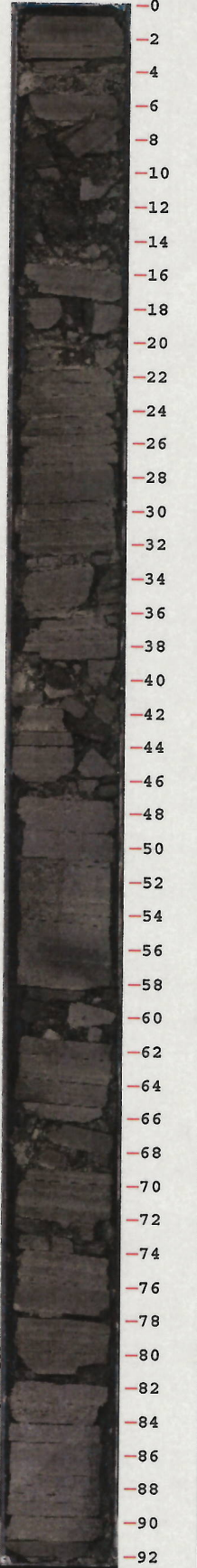
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: BR	Date: 23/2/19
							Comments	
0				0	↑ F	0	0-59 cm Dark gray thinly laminated silty clay with intervals of normally graded silt to clay throughout	
2								
4								
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10								
12								
14								
16								
18								
20							43cm layer of sand grains 1.5cm biscuit missing	
22								
24								
26								
28								
30								
32								
34								
36								
38								
40							59 1.5cm biscuit missing from W half 51-59cm core interval dropped on deck	
42								
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62								
64								
66								
68								
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152								



CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/23/19
							Comments opal-CT in smear slides	
0							0-150 cm: dark gray laminated silty clay	
2							- mostly planar laminated	
4							- thin mm-scale laminations,	
6							- common thicker normally graded laminations 82-150cm	
8							- packages of mm-scale silt laminae at 58cm, 144cm	
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148								
150	150						150	

CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0-4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By:	Date:
							SP	2/23/19
0	7 15	-		1	↑	○	<p>0-93 cm: dark gray laminated silty clay</p> <ul style="list-style-type: none"> - mostly planar laminated - ca. 4mm thick normally graded laminae are common throughout - some scouring where coarser grained laminae overlie finer grained laminae (53, 79cm) <p>28-30cm: some bioturbation, mm-scale burrows</p> <p>53cm: small scow</p> <p>54cm: bioturbation</p> <p>71-72cm: soft-sediment clast and 1 sand grain (black, very angular)</p> <p>75-77cm: package of silt laminae</p> <p>79cm: scoured lamina</p>	
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/23/19
							Comments	
0								<p>0-68 cm: dark gray laminated silty clay</p> <ul style="list-style-type: none"> - mostly planar laminated - common normally graded laminae - packages of silt laminae, mm-scale at 6-7cm, 60-62cm - 17cm: soft-sediment clast (larger part in W-half)
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CM Scale	SS+TS Sample	Drilling Disturbance	Lithology C ST SD G	Bioturbation Index 0 - 4	Sedimentary Structures	Pebble Counts >4mm less than #10	Logged By: SP	Date: 2/23/19
							Comments	
0				0	↑ ↓	∅	0-13cm: dark gray laminated silty clay - some normally graded laminae - mostly planar laminated	
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PAL