

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-0--	Soupy							Jk	12/22/11
	8cm	vfs	med sand	Massive	3	5cm	Calcareous sandy mud		
-10--							0-150 cm		
-20--							Olive gray silty sand (with biogenic carbonate?) Forams throughout		
-30--	57 4 1/2						Scattered sandy/foram-filled burrows		
-40--							Mm-scale pyritic burrow fills below ~100 cm		
-50--						SS 50cm	50 cm: Calcareous silty sand		
-60--							-57 cm Gastropod		
-70--									
-80--							-79-80 Whole gastropod		
-90--	NONE								
-100--									
-110--							-109 cm Shell fragment		
-120--									
-130--									
-140--							Continues to Section 2, 20 cm		
-150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	5Y 4/2	vfs	med sand	Massive	3		0-20 cm Silty sand (with biogenic carbonate). Forams; mm-scale pyritic burrow fills	JK	12/22/11
							Sharp irregular contact 19-21 cm		
							23 cm: Shell fragment (echinoid?) 25 cm: Calcareous silty mud 20-150 cm		
NONE		clog	21cm Med Sand	Massive		25 SS	Mud (nanno mud? or "w/ biogenic carbonate")		
	5Y 4/2				3		Forams present Mm-scale pyritic burrow fills		
							Cm-scale sandy burrow fills extend to 49 cm		
							Continues to Section 3		
							83 cm } Mm-scale burrow fills of sand or forams 91 cm }		
						100 SS	100 cm: Calcareous silty mud		
							102 Cm-scale sandy burrow fill		
							114 cm Shell fragment		
							138 cm Shell fragment bivalve?		
							145-150 ↓ IW sample		
IW									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

IW

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	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
	Slight	5y 4/2	clay	med sand	Massive	3		Same as above Forams present Mm-scale pyritic burrow fills	JK	12/22/11
-- 10 --										
-- 20 --		21 cm	↓	↓						
										26 cm
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date: 12/22/11
		Avg.	Max.						
	54 4/2	silt	med sand		3		0-12 cm ^{Color} Silty mud + Shell fragments		
		clay	Med Sand				11-14 cm gradational contact cm-scale silt-filled burrows to 25 cm		
							12-133 cm ^{Color} Mud Shell fragments		
							All with forams & mm-scale burrow fills of pyrite		
							Shell frags 81-83 cm		
	NONE						Shell frags 94 cm		
							115 cm Shell frags to base of core		
							133 cm Gradational contact		
		silt	Med Sand				133-150 cm ^{Color} Silty mud		
							150 cm		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	54 4 1/2				3		0-23 cm Calc. Mud	ZK	12/22/11
		Clay	Med Sand				6-8 cm Small shell frags (SSF)		
							20-22 SSF		
							22-25 cm Gradational contact		
		Silt	Med Sand				23-27 cm Contact Silty mud		
							27 cm Sharp, slightly irregular contact		
		Clay	med sand				27-34 cm Calc. Mud		
							33-35 cm Irregular gradational contact		
		Silt	med sand				35-38 cm SSF		
							34-48 cm: Silty Mud		
							42-48 cm SSF		
							48 cm Sharp contact		
		Clay	med sand				48-62 cm: Calc. Mud		
							60-62 cm Irregular gradational contact		
							61-101 cm: Calc. Silty mud		
		Silt	med sand				71-75 cm SSF		
							86 cm SSF		
							91 Shell fragment		
							97 cm SSF		
							101 cm Gradational contact		
		Clay	med sand				101-114 cm: Calc. Mud		
							113-115 cm Irregular gradational contact		
		Silt	med sand				SSF throughout		
							114-150 cm: Calc. Silty Mud		
							Continues on Section 4		
							150 cm		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date: 12/22/11
		Avg.	Max.						
0	5Y 4/1	Silt	Med Sand				0-150 cm: ^{Core} Silty mud, with forams, shell fragments & cm-scale pyritic burrow fill.		
10							10 cm Shell frag		
20							18-20 cm Shell frag		
30							Locally with cm-scale mottles of mud -- may indicate @. deposition of muddy thin interbeds, now disrupted by bioturbation		
40							41 cm Shell frag		
50									
60							59-60 cm bivalve frag		
70							66 cm Shell frag.		
80									
90							90 cm: ^{Core} Nano silty mud		
100							89 cm 2 cm-long echinoid spine scaphopod (horizontal)	SS 90 cm	
110							110-112 shell frag echinoid spine? scaphopod (vertical)		
120							120-122 shell frag echinoid spine? scaphopod (vertical)		
130							128-129 shell frag		
140									
150							150 cm		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	54 4/1	silt	med sand		4		0-67 cm: 5 cm ^{Cole.} Silty mud Shell frag	ZK	12/22/14
							-16 cm Shell frag		
							} 22-25 cm Shell frag.		
							} 39-40 cm Shell frag		
							} 48-50 cm Shell frag		
							-54 cm Shell frag		
							65-69 cm: Gradational irregular contact		
		vfs	ms		3		67-78 cm: ^{Cole.} Silty sand		
							77-80 cm: Gradational irregular contact		
		clay	ms		3		78-82 cm: Mud		
							80-83 cm: Gradational irregular contact		
		silt	ms		4		82-107 cm: ^{Cole.} Silty mud		
				Fu			Slight normal grading in basal 10 cm		
							107 cm: Gradational contact		
		silt	ms				107-117 cm: ^{Cole.} Silty mud		
				Fu?			117 cm: Gradational contact ^{Cole?}		
		fs	fs?		1?	118 SS	118.5 cm: Sharp contact irregular		
					3		118 cm: Sandy mud w/ biogenic carbonate		
							119-150 cm: ^{Cole.} Silty mud		
							} 134-136 cm Shell frag		
							150 cm		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	54 4/11	silt	med sand		3		0-12 cm Silty mud <i>Cole.</i>	JK	12/22/11
-- 10 --		clay	med sand		3	Small shell frags, forams & mm-scale pyrite burrows fills	12 cm Sharp irregular contact		
-- 20 --	NONE						12-29 cm <i>Cole.</i> Mud		
-- 29 --		29 cm						29 cm	
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-0--	54 4/2	silt	med. sand	mottled	3		SANDY mud mottled		
-10--				bioturb. contact	↓		-10: scaplo pod -11: scaplo pod -13: scaplo pod -16: shell fragment		
-20--		clay	m. sand	mottled			(2) SILTY mud mottled		
-30--				bioturb. contact			29 32 cm: calcareous sandy mud 32 cm: coarsening up 32 cm: calcareous mud 35 cm: echinoderm fragment 37 cm: scaplo pods 42 cm: SANDY mud mottled		
-40--		silt	med. sand	mottled					
-50--				bioturb. contact			48: almost entire gastropod shell 50: SANDY mud mottled		
-60--		clay	m. s.	mottled			(2) SILTY mud mottled		
-70--							74 cm: calcareous silty mud 74 cm: sandy silty calcareous mud		
-80--				biot. contact			79: shell fragment 81: very large silt-filled burrow? 85: (1) mud		
-90--		clay	m. s.						
-100--							100 cm: muddy calcareous mud 100 cm: Nannofossil mud		
-110--		clay	m. s.	biot. contact mottled			106: (2) SILTY mud 112: SANDY mud		
-120--				bioturb. contact					
-130--		silt	m. s.	mottled					
-140--				bioturb. contact			138: (2) SILTY mud		
-150--		clay	m. s.						

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	S4								
	4(1)				W ↓				
-- 10 --	↓	clay	m.s.	mottled			② SILTY MUD heavily bioturbated with sand-filled burrows shell frags		
-- 20 --									
				bioturb. contact		26			
-- 30 --									
		clay	m.s.				① MUD		
-- 40 --									
				grad. contact		47			
-- 50 --		clay	m.s.	mottled			② SILTY MUD		
				biot. contact		57			
-- 60 --									
		silt	m.s.	mottled			SANDY MUD small shell frags		
-- 70 --				biot. contact					
						92 93 95	scalloped, originally at 131-132cm		
-- 80 --									
-- 90 --									
		clay	m.s.	mottled			② SILTY MUD Several sand-filled and shell frags-filled burrows		
-- 100 --									
-- 110 --									
-- 120 --									
				biot. contact		126			
-- 130 --									
						134	SANDY MUD		
-- 140 --		silt	m.s.				139/140 - 141-142 = muddy layer, inclined,		
				biot. contact		145			
-- 150 --		clay	m.s.				② SILTY MUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
-- 0 --	5Y 4/1				3 ↓		-6: scaphopod		
-- 10 --	↓						-19: scaphopod		
-- 20 --		silt	m.s.	mottled			-22-24: SANDY MUD more muddy layer		
-- 30 --									
-- 40 --									
-- 50 --				biot. contact			-49		several sand-filled burrows at top
-- 60 --									
-- 70 --		clay	m.s.						① MUD
-- 80 --									
-- 90 --									
-- 100 --				biot. contact			-98		
-- 110 --									
-- 120 --		silt	m.s.	mottled			-116		SANDY MUD
-- 130 --									
-- 140 --				biot. contact			-137/140		① MUD sand-filled burrow
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --									
	54				3				
-- 10 --	4/2 ↓	clay	m.s.		↓		① <u>MUD</u>		
-- 20 --									
				biot. contact					
-- 30 --		clay	m.s.				② <u>SILTY MUD</u>		
-- 40 --				biot. contact					
-- 50 --									
-- 60 --		silt	m.s.	mottled			SANDY MUD shell frags		
-- 70 --									
-- 80 --									
-- 90 --									
				biot. contact					
-- 100 --		clay	m.s.	mottled			② <u>SILTY MUD</u>		
-- 110 --				grad. contact					
-- 120 --									
-- 130 --		clay	m.s.				① <u>MUD</u>		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --									
-- 10 --	54 4/2 ↓	clay	m.s.		3 ↓		① <u>NUD</u>		
-- 20 --									
-- 30 --									
-- 40 --				grad. contact		42			
-- 50 --									
-- 60 --									
-- 70 --		clay	m.s.	mottled			② <u>SILTY NUD</u> shell frags		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --				grad. contact		112			
-- 120 --		silt	m.s.	sharp contact		119	<u>SANDY NUD</u> shell frags		
-- 130 --		clay	m.s.				② <u>SILTY NUD</u>		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
-- 0 --	54 4/2	clay	m.s.	mottled	2 ↓		② <u>SILTY MUD</u>		
-- 10 --				biot. contact					
-- 20 --									
-- 30 --		clay	m.s.				① <u>MUD</u>		
-- 40 --									
-- 50 --									
-- 60 --				grad. contact					
-- 70 --									
-- 80 --									
-- 90 --		clay	m.s.	mottled			② <u>SILTY MUD</u> mottled		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --				biot. contact					
-- 140 --		silt	m.s.	mottled			<u>SANDY MUD</u>		
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		5Y 4/1	silt	m.s.	mottled	2 ↓		SANDY MUD shell frags		
-- 20 --		↓								
-- 23 --					grad. contact					
-- 30 --										
-- 40 --			clay	m.s.				(2) SILTY MUD shell frags		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
			Avg.	Max.						
-- 0 --		S4	clay	ms.	mottled	3				
-- 10 --		4/2 ↓				↓		(2) SILTY MUD		
-- 20 --								shell frags		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		54				3				
-- 10 --		4/2				↓				
-- 20 --										
-- 30 --			clay	m.s.	mottled			(2) SILTY MUD shell frags		
-- 40 --										
-- 50 --								46 shell frags		
-- 60 --										
-- 70 --					grad. contact			67		
-- 80 --			silt	m.s.	mottled			(3) SILTY SAND high water content shell frags		
-- 90 --					inclined / sharp contact			90		
-- 100 --										
-- 110 --										
-- 120 --			clay	m.s.				(1) MUD with sand and silt-filled burrows		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --									
	S4 y/s b				3 ↓				
-- 10 --		clay	m.s.						
-- 20 --				mottled			(2) SILTY MUD shell frags		
-- 30 --							(SS) 30 cm silty? silty sand w/ calcareous Silty sand with biogenic carbonate		
-- 40 --				biot. contact		42			
-- 50 --							(SS) 53 cm silty mud with biogenic clay and carbonate 53 cm sandy!		
-- 60 --		silt	m.s.	mottled			(3) SILTY SANDS small shell frags		
-- 70 --				biot. contact		73			
-- 80 --		clay	m.s.	mottled			(2) SILTY MUD small shell frags		
-- 90 --									
-- 100 --				biot. contact		88			
-- 110 --		clay	m.s.				(1) MUD with silt and sand-filled burrows few shell frags		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	5Y								
-- 10 --	4/2	clay	m.s.		3 ↓		① <u>MUD</u>		
-- 20 --				grad. contact					18
-- 30 --		silt	m.s.	mottled			<u>SANDY MUD</u> shell frags		
-- 40 --									
-- 50 --		clay	m.s.	biot. contact mottled			② <u>SILTY MUD</u> 58 shell frags		51
-- 60 --		silt	m.s.	biot. contact mottled biot. contact					61
-- 70 --							<u>SANDY MUD</u>		65
-- 80 --		clay	m.s.	mottled			② <u>SILTY MUD</u>		
-- 90 --									
-- 100 --				biot. contact					105
-- 110 --		silt	m.s.	mottled			<u>SANDY MUD</u>		
-- 120 --									
-- 130 --				biot. contact					128
-- 140 --		clay	m.s.				① <u>MUD</u> with sand-filled burrows		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --										
		54	clay	m.s.		3		① <u>NUD</u>		
-- 10 --		4/2			grad. contact	↓				
		↓								
-- 20 --			clay	m.s.	mottled			② <u>SILTY NUD</u> sand-filled burrows		
-- 30 --										
-- 40 --					grad. contact					
			silt	m.s.	mottled			<u>SANDY NUD</u> few shell frags		
-- 50 --										
					biot. contact					
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --			clay	m.s.	mottled			② <u>SILTY NUD</u> sand-filled burrows few shell frags		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --					grad. contact					
			clay	w.s.				① <u>NUD</u>		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
	GREY								
	10Y 4/2	clay	med.		3 ↓				
				grad. contact					
							more greenish color for mud (GREY 10Y 4/2) and more brownish for sandy/silty beds (SY 4/2).		
		clay	med.				① MUD 42-48: a little bit more silty		
							75-77: more silty		
							89 shell frags		
							100 cm: muddy calcareous ooze 100 cm: <u>Nanno mud</u> 105: crack		
							124: shell frags		
							146 shell frags		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
-- 0 --	S4 4/2	silt	w.s.		3 ↓		JANDY MUD		
-- 10 --				biot. contact					
-- 20 --		clay	w.s.				② SILTY MUD		
-- 30 --							shell frags		
-- 40 --									
-- 50 --							50 cm: Calcareous silty mud (SS) 50 cm silty? silty mud with calcareous core.		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

20110222 15:12:18
 PAL



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
- 0 --									
	54								
-- 10 --	4/4	clay	m.s.	mottled	3 ↓		② SILTY GUD		
-- 20 --									
		silt	m.s.	grad. contact mottled			SANDY GUD		
-- 30 --									
		clay	m.s.	biot. contact mottled			② SILTY GUD		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --										
		54 4/4				3 ↓				
-- 10 --		↓	clay	m.s.				① <u>MUD</u>		
-- 20 --										
-- 30 --										
-- 40 --					biot. contact		44			
-- 50 --										
-- 60 --			silt	m.s.	mottled			<u>SANDY MUD</u> shell frags		
-- 70 --					biot. contact		91 crack 74			
-- 80 --										
-- 90 --			clay	m.s.				① <u>MUD</u>		
-- 100 --							102 104	sand-filled burrow		
-- 110 --								few shell frags		
-- 120 --										
-- 130 --										
-- 140 --					biot. contact		138			
-- 150 --			clay	m.s.				② <u>SILTY MUD</u>		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
-- 0 --	5y 4/2	clay	m.s.		3		(6) void		
-- 10 --	↓								
-- 20 --							(1) mud		
-- 30 --							small shell frags		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
-- 0 --									
	Sy				3				
-- 10 --	4/2				↓				
	↓	clay	m.s.	mottled			(2) SILTY MUD few shell frags		
-- 20 --									
-- 30 --									
-- 40 --				biot. contact			36-39 cm: scooped		
-- 50 --									
		silt	m.s.	mottled			SANDY MUD		
-- 60 --									
-- 70 --				biot. contact			69		
-- 80 --		clay	m.s.				① MUD		
-- 90 --									
				biot. contact			94		
-- 100 --									
-- 110 --									
		silt	m.s.	mottled			SANDY MUD		
-- 120 --									
-- 130 --									
-- 140 --				grad. contact			139		
		clay	m.s.	mottled			(2) SILTY MUD		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		54								
-- 10 --		4/2 ↓	clay	m.s.	mottled	3 ↓		(2) SILTY MUD shell frags		
-- 20 --										
-- 30 --					biot. contact			30 cm: Nanno fossil mud (SS) 30 cm		
-- 40 --										
-- 50 --								(SS) 53 cm 53 cm: Silty mud with biogenic carb.		
-- 60 --			silt	m.s.	mottled			(3) SILTY SAND shell frags		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --					biot. contact					
-- 110 --			silt	m.s.	mottled			SANDY MUD		
-- 120 --					biot. contact					
-- 130 --			silt	m.s.	mottled			(3) SILTY SAND		
-- 140 --										
-- 150 --								shell frags		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
--0--	SY 4/12	silt	m.s.	wetted	3		③ <u>SILTY SAND</u>		
--10--	↓			biot. contact	↓				
--20--	↓	clay	m.s.	wetted			② <u>SILTY MUD</u>		
--30--				biot. contact					
--40--		silt	m.s.	wetted			<u>SANDY MUD</u> inclined muddy layers (1 cm thick)		
--50--				biot. contact					
--60--									
--70--		clay	m.s.				④ <u>MUD</u>		
--80--							79 shell frags 83 shell frags		
--90--									
--100--									
--110--				biot. contact					
--120--		silt	m.s.				<u>SANDY MUD</u>		
--130--							shell frags		
--140--				biot. contact					
--150--		clay	m.s.				⑤ <u>SILTY MUD</u>		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
	SY 412 ↓				3 ↓				
		clay	m.s.				② SILTY MUD		
				grad. contact					
		clay	m.s.				① MUD		
							60 cm: Silty mud with biogenic carb.		
				biot. contact					
		silt	m.s.	walled			SANDY MUD		
							shell frags		
				biot. contact					
		clay	m.s.				① MUD		
							several sand-filled burrows		

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --									
-- 10 --	SY 4/1	clay	m.s.		3 ↓		③ <u>NUD</u>		
-- 20 --									
-- 30 --				grad. contact			28		
-- 40 --		clay	m.s.				34	② <u>SILTY MUD</u>	
-- 50 --							46	small shell fragments	
-- 60 --		clay	m.s.	grad. contact			55	① <u>MUD</u>	
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --										
-- 10 --		Sy S/A	clay	m.s.		3 ↓		① <u>NUD</u>		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

-42 shell frags

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
	5Y 5/1	clay	m.s.		3 ↓		① MUD		
				grad. contact			12		
							15-18 large sand-filled burrow		
	5Y 5/1						31		
							sand-filled patches and discontinuous layers - burrows? 36 cm: black spots		
		clay	m.s.				② SILTY MUD 50: black spots 51: shell frags		
		gradational color contact							
							76		
							76-121 cm: more reddish color although the color under is the same.		
	more reddish						90 cm ⑤ 90 cm: Sandy silt with biogenic carb.		
				grad. contact			121		
	5Y 4/1	silt	m.s.	mottled			SANDY MUD shell frags		
							144		
		clay	m.s.				② SILTY MUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
			Avg.	Max.						
-- 0 --		5y 4/1	silt	m.s.	mottled	3 ↓		SANDY MUD		
-- 10 --		↓			biot. contact		14			
-- 20 --										
-- 30 --										
-- 40 --			clay	m.s.	mottled			② SILTY MUD		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
--0--										
		5Y								
--10--		4/1				2		6) scaplopod (vertical position) 9)		
			clay	m.s.		↓				
--20--								② <u>SILTY MUD</u>		
		more								
--30--		reddish			grad. contact					
								33		
--40--								20 - 150 cm: more reddish although the color index is the same.		
--50--			clay	m.s.				① <u>MUD</u>		
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-0--	5Y	clay	m sd.		3		0-148.5. mud.	f.	12/22
-10--	4/1 more reddish						Scattered Pyrite grains and shell fragments alternated greenish and reddish part.		
-20--							0-18 cm: more reddish although the color index is similar		
-30--									
-40--	5Y 4/2								
-50--									
-60--									
-70--									
-80--									
-90--									
-100--									
-110--									
-120--									
-130--									
-140--									
-150--									

slightly disturbed by gas sampling at 79, 45, 35



IW

MAJOR LITHOLOGY: _____ MINOR LITHOLOGY: _____

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--		5Y	clay	w sd.	massive				f.	12/22
--10--		4/1					(SS) 4 cm	0-76. mud. Same as above. description.		
--20--							4 cm: Mud with biogenic carbonate			
--30--	undisturbed.									
--40--						3				
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	undisturbed.	5Y.	clay	med.	massive.	3.	0-20. mud. Same as above description.	f.	12/22.	
-- 10 --		4/1								
-- 20 --										
25						PAL.				
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
--0--									
	5Y 4/2	clay	w.s.		3 ↓				
--10--							-8.9cm: shell frags		
--20--							-22cm: shell frags		
--30--									
--40--							① MUD		
--50--									
--60--						(SS)	60cm: Calcareous mud 60cm		
--70--									
--80--							-75 -79 black-filled burrow		
--90--									
--100--				grad. contact					
		clay	m.s.	mottled					
				biot. contact					
--110--						(SS)	106cm: Silty mud with biogenic Carb. 107-117cm: black patches		
--120--		silt	w.s.				SANDY MUD with small shell frags		
--130--									
--140--						(SS)	140cm: Silty mud with biogenic Carb.		
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		SY								
-- 10 --		4/2 ↓	silt	m.s.		?				
-- 20 --										
					biot. contact					
-- 30 --										
-- 40 --										
-- 50 --			clay	m.s.	mottled					
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --					grad. contact					
-- 100 --										
-- 110 --			silt	m.s.	mottled					
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	54				3				
-- 10 --	4/2 ↓	silt	m.s.		↓		SANDY MUD shell frags		
-- 20 --				biot. contact					
-- 30 --									
-- 40 --									
-- 50 --		clay	m.s.				② SILTY MUD several sand-filled burrows shell frags		
-- 60 --									
-- 70 --									
-- 80 --				grad. contact					
-- 90 --	more reddish ↓								
-- 100 --									
-- 110 --		clay	m.s.				① MUD		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		54 4/2				3				
-- 10 --		more reddish	clay	m.s.		↓		① <u>quD</u>		
-- 20 --		↓						sediment more reddish all along the section		
-- 30 --								small shell frags all along the section		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --								67-68 = shell frags		
-- 80 --										
-- 85 --								crack		
-- 90 --								[90-91] shell frags		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	5Y				3				
-- 10 --	4/1				↓				
-- 20 --	↓	clay	m.s.				① MUD		
-- 30 --							0 - 86 cm: more reddish very gradual color contact		
-- 40 --							24-25 cm: 2 py. grains? (>5mm Ø) bluish (iron oxide?)		
-- 50 --									
-- 60 --									
-- 70 --	more reddish								
-- 80 --	↑								
-- 86 --				gradat. contact					
-- 90 --		clay	m.s.						
-- 100 --									
-- 110 --				bioturb. contact					
-- 112 --									
-- 120 --									
-- 125 --									
-- 128-129 --		silt	m.s.						
-- 130 --									
-- 138 --									
-- 140 --									
-- 148 --				sharp? contact					
-- 150 --		silt	m.s.						

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					EO	22/12/11
-- 0 --		silt	m.s.				SANDY MUD shell frags		
				biot. contact	3 ↓				
-- 10 --	SY 4/2 ↓	clay	m.s.				(2) SILTY MUD shell frags		
-- 20 --									
-- 30 --				biot. contact					
-- 40 --		silt	m.s.				SANDY MUD shell frags		
				biot. contact					
-- 50 --	a little more reddish ↓						46 49 small scalloped		
-- 60 --							46 - end of section: a little bit more reddish		
-- 70 --									
		clay	m.s.				(2) SILTY MUD		
-- 80 --							sand-filled burrow small shell frags		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --									
	SY								
-- 10 --	4/1	clay	m.s.	mottled	3 ↓		② SILTY MUD small shell frags all along the section		
-- 20 --	↓								
		silt	m.s.	biot. mottled		24	SANDY MUD		
-- 30 --		clay	m.s.	biot contact mottled		28			
							② SILTY MUD		
-- 40 --				biot. contact		38			
		silt	m.s.	mottled			SANDY MUD		
-- 50 --				sharp. contact		52			
		clay	m.s.				① MUD		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		S4 4/2	clay	am. s.		3 ↓		Ⓢ MUD		
-- 10 --		↓								
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
--0--									
	SY 4/12	silt	m.s.	mottled	3 ↓		SANDY MUD		
--10--				irregular contact		13			
--20--		clay	m.s.	mottled			② SILTY MUD		
--30--				biot. contact		27			
--40--		silt	m.s.	mottled			SANDY MUD shell frags		
				inclined contact		39/48			
--50--		clay	m.s.	mottled			② SILTY MUD		
						50	crack + shell frags		
--60--							57-64: very inclined sandy layer		
				inclined contact					
--70--									
--80--		clay	m.s.				① MUD		
--90--				biot. contact		89			
						92-95	black patch		
--100--		clay	m.s.	mottled			② SILTY MUD shell frags		
--110--									
				biot. contact		117			
--120--									
--130--		silt	m.s.	mottled			SANDY MUD		
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	54 4/2 ↓				3 ↓				
-- 10 --		silt	m.s.				SANDY MUD few small shell frags		
-- 20 --				mottled			-26: crack		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --				biot. contact			69		
-- 80 --		clay	m.s.	mottled			② SILTY MUD		
-- 90 --									
-- 100 --		silt	m.s.	biot. contact mottled			94 100 cm: Silty mud with SANDY MUD biogenic shell frags carbonate		
-- 110 --				biot. contact			105		
-- 120 --		clay	m.s.				② SILTY MUD small shell frags		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	22/12/11
-- 0 --		SY			watbled					
		4/2	clay	m.s.		3				
-- 10 --		↓			biot. contact	↓		12		
-- 20 --			silt	m.s.	watbled					
-- 30 --					biot. contact			33		
-- 40 --										
-- 50 --										
-- 60 --					watbled					
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --					biot. contact			109		
					biot. contact			114		
-- 120 --								120-121: scallop fragment		
		126			watbled					
-- 130 --		more reddish								
					grad. contact			138		
-- 140 --			clay	m.s.						
-- 150 --		↓								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
		Avg.	Max.						
				grad. contact	3		① NUD		
	54 4/2 ↓				↓				
		clay	mm.s.				② SILTY NUD (very muddy) all of this section were reddish		
						SS - 50 cm			
						<u>50 cm:</u> Calcareous silty mud			
	more reddish								
				grad. contact					
		clay	mm.s.				① NUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
			clay m.s.				① NUD		
				grad. contact	3				
	Sy 4/2 ↓								
							all of this section were reddish		
			clay m.s.	mottled			② <u>SILTY</u> NUD		
							sand-filled burrows shell frags		
				grad. contact					
			clay m.s.				③ NUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	22/12/11
-- 0 --	S4								
	4/4	clay	m.s.		3				
-- 10 --	↓				↓		① NUD		
-- 20 --							-21) shell frags - filled burrow -24)		
-- 30 --					SS	30 cm	Nanno mud		
-- 40 --	more reddish						more reddish from 0 to 68m		
-- 50 --									
-- 60 --							63-64 : shell frags		
-- 70 --				grad. contact			68 ← black patch		
-- 80 --							78) black patches		
-- 90 --							86		
-- 100 --		clay	m.s.				② SILTY NUD shell frags		
-- 110 --									
-- 120 --				inclined? irregular contact			124-119		
-- 130 --		clay	m.s.				① NUD		
-- 140 --				grad. contact			144		
-- 150 --		clay	m.s.				② SILTY NUD		

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		5Y 4/1	clay	m.s.		3 ↓		(2) SILTY mud		
-- 20 --										
-- 30 --								31 scalloped frags		
-- 40 --								sand-filled burrow		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 22/12/11
			Avg.	Max.						
-- 0 --										
		SY w/2	clay	m.s.		3		② SILTY MUD		
-- 10 --		↓				↓		14-15 = py. tubes?		
-- 20 --					biot. contact			① MUD		
-- 22 --			clay	m.s.						
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --	2.5 4/1	clay	m. sand (foram)	massive	BZ3		mud L foram present		
-- 10 --									
-- 20 --									
-- 30 --							-32 shell fragment -34 shell fragment		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --							-79 shell fragment. -82, Py burrow		
-- 90 --							-85 -91) Small shell fragment		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --							Same as above		
							2, shell fragments		
-- 10 --							6) small shell fragments		
							10		
-- 20 --							20. small shell fragments		
-- 30 --							33. shell fragment		
-- 40 --							47. shell fragments		
-- 50 --							54. P ₂ burrow		
				gradational contact			59. P ₂ burrow		
62-60 --									
-- 70 --	10Y 4/1	clay	m. sand (foram)	massive	B2 3		mud - forams present		
							69. P ₂ burrow		
-- 80 --				color change contact			73) shell fragments		
							77		
85 -							78) forams and shell fragments filled burrow?		
							81		
-- 90 --	2.5Y 4/1	clay	f. sand	massive	B2 3		mud.		
							shell fragments.		
94				gradational contact					
-- 100 --	2.5Y 4/1	silt	m. sand (foram)	massive	B2 3		silty mud - forams present.		
							46. shell fragment		
-- 110 --							107. forams patch		
							110. shell fragment		
-- 120 --							116. P ₂ burrow		
							123. forams patch?		
-- 130 --							127. shell fragment		
							128. shell fragments filled burrow		
-- 140 --							134. shell fragment		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --							4, shell fragment. 7, 7, P ₂ burrows		
-- 20 --							shell fragments		
-- 30 --									
-- 40 --							37, shell fragments 38, shell fragments		
-- 50 --							46 shell fragment		
-- 60 --									
-- 70 --									
-- 80 --							82, shell fragments		
-- 90 --							59		
-- 100 --							shell fragments		
-- 110 --									
-- 120 --							gradational contact		
127									
-- 130 --	105 4/1	vf. sand	m. sand (foram)	massive? (mottled) gradational	B/L2		sandy mud - foram present 129. shell fragments		
135									
-- 140 --	104 4/1	silt	m. sand (foram)	massive	B/L2		silty mud - foram present		
139									
-- 140 --	104 4/1	vf. sand	m. sand (foram)	gradational massive?	B/L3		sandy mud - foram present		
-- 150 --							150. shell fragment		

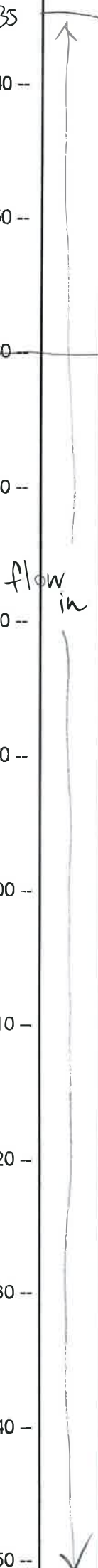
MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					SF	2011 12/23
							-0-- -10-- -20-- -30-- 35 -40-- -50-- 60 -60-- -70-- -80-- -90-- -100-- -110-- -120-- -130-- -140-- -150--		
							<p>Same as above</p> <p>7 cm: Nanno silty mud</p> <p>11, shell fragment</p> <p>18, shell fragment</p> <p>25, shell fragment</p> <p>30, shell fragment</p> <p>38, shell fragment</p> <p>41, shell fragment</p>		
	10Y 4/1	silt	m. sand (foram)				<p>Silty mud</p> <p>67.</p> <p>shell fragments (flow in)</p> <p>143. shell fragment.</p>		

7
S.S



IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --							Same as above shell fragment (flow in)		
-- 10 --							9. shell fragment.		
-- 20 --							17. P ₁ burrow		
-- 30 --							33. shell fragment.		
-- 40 --							47. P ₁ burrow		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --							Same as above - 2 nd shell fragment.		
-- 10 --									
-- 20 --							- 22, shell fragment		
-- 30 --									
34									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
0-3	dis							CR	23/12/11
3-10	5y 4/1	clay		massive ↓	BI =3		Red Forams present		
10-29	cracks in soil ↓								
29-30	GLEy1								
30-41	10y 4/1								
41-42							41 42 > shell frag.		
42-49									
49-52							49: shell frag.		
52-55							52: shells frags		
55-60	GLEy1 50y 4/1								
60-70									
70-80									
80-90									
90-106									
106-110							106: shells frags.		
110-104	GLEy1								
104-120	10y 4/1								
120-130									
130-140									
140-150									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 23/12/11
			Avg.	Max.						
-- 0 --								Same as above		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --								contact: gradational		
-- 55 --		5y			massive	BI		Silty mud		
-- 60 --	undisturbed	3/2				= 2		Forams present		
-- 65 --								shell fragments more abundant than above		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 116 116 116 -- 120 --								= 118 > shell frag.		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Same as above	LR	23/12/11
-- 10 --									
-- 20 --									
25							-25: shell fragment		
-- 30 --									
-- 40 --									
43				massive	BI =2		contact: gradual Silty sand Sandy mud Shells fragments Echinoid fragment		
-- 50 --									
59				massive	BI =2		contact: gradual Silty mud few shell fragments		
-- 60 --	OLEY1 10y 4/1								
-- 70 --									
75						75 SS	75 cm: Silty mud w/ biogenic carbonate		
-- 80 --							contact: irregular Mud Forams present few shell frag.		
-- 90 --									
96				massive	BI =2		contact: gradual Silty mud		
-- 100 --	OLEY1 10y 4/1								
101 102							-107 > Scaphopoda shells -108 > Coral branches -109 > Coral branches -110 contact: irregular		
-- 110 --									
	OLEY1 10y 4/1			massive	BI =2		Mud -118: shell frag. -121: shell frag.		
118									
-- 120 --									
121									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	Undisturbed	OLEY ₁			massive	B1 =2	Flud Forams present few shell fragments	CR	23/12/11	
10y										
4/1										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
84	Undisturbed	OLEY ₁			massive	B1 =2	contact: gradational silty mud shell fragments			
-- 90 --		10y								
4/1										
-- 100 --										
103	Undisturbed	OLEY ₁			massive	B1 =2	silty sandy mud shell fragments			
-- 110 --		10y								
4/1										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

01/20/04 10:17:4
 560621
 23/12/11

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Same as above	OR	23/12/11
-- 10 --							contact: irregular		
14				mainly	BI = 2		Silty mud shell fragments		
-- 20 --							contact: gradational		
27	OLEY 10y 4/1			mainly	BI = 2		Red Mottled with 5y 3/2		
-- 30 --									
-- 40 --									
42							42 } Forams abundant 43 } shell frag abundant		
45									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 23/12/11
			Avg.	Max.						
-- 0 --								Same as above Forams present few shell frag.		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--								CR	23/12/11	
--10--	concl. y									
--20--										
25 26										
--30--										
38										
--40--		5Y 3/1			massive	BI =2		contact: gradational silty mud shell fragments Forams present	↓ coarse downward	
--50--										
--60--										
--70--										
75										
--80--										
89										
--90--										
--100--										
--110--										
--120--										
121		5Y 3/1			massive	BI =1 about		contact: gradational sandy mud shell fragments Forams		
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					GR	23/12/11
-- 0 --							Sandy mud: Same as above Forams present shell fragments throughout the section		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
75						75 SS	75 cm: Silty sand with biogenic carbonate		
-- 80 --									
88							88 > worm burrow fragment		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
139							139 > Scaphopoda shell fragment		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									CR	23/12/11
-- 10 -- 13								Same as above		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
67										
-- 70 --								67: Bivalve shell		
75										
-- 80 --							75 SS	75 cm Silty sand with biogenic carbonate		
-- 90 --										
-- 100 --										
-- 110 --										
119										
-- 120 --								119 > Scaphopoda shell fragment		
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: UR	Date: 25/12/11
		Avg.	Max.						
-- 0 --							contact: gradational		
2							Silty mud Forams present shell frag.		↓ fine
-- 10 --									
15						15 SS			
-- 20 --									
-- 30 --							contact: gradational		
33				massive	BI = 2		Mud Forams present		
40	4/1								
-- 50 --									
-- 60 --									
-- 70 --									
75						75			
77						SS			
-- 80 --							77 > 80 Scaphopoda shell		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	Grey 1			Matrix	3 2		Same as above	CR	23/12/11
8	10g						-8: shell frag.		
-- 10 --	411								
-- 20 --							-20: shell frag.		
28							-28: shell frag.		
-- 30 --									
36							-36: shell frag.		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					SF	2011 12/23
	10Y 4/1	clay	m. sand (foram)	massive	BI 2		mud - foram present		
							11. shell fragment		
							49. P ₂ burrow		
							51. shell fragment		
							58. shell fragment		
							76. P ₂ burrow		
							87. shell fragments		
							97. shell fragment.		
							103. shell fragment.		
							121. shell fragment.		
				gradational contact					
	10Y 4/1	silt	m. sand (foram)	massive	BI 2		Silty mud - foram present		
							130 shell fragments		
							135) small shell fragments		
							145)		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
0							Same as above		
5							shell fragments		
10							shell fragments		
20				gradational contact					
24	10Y 4/1	clay	f. sand (foram)	massive	BI 3		mud - foram present (not change color from above but looks greenish)		
30									
40							42. Py burrow		
50							54. Py burrow		
60						60 S-S			
70							79. Py burrow		
80									
90							91. Py burrow		
100									
110						110 S-S			
120									
130									
140									
141			IW						
150									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
0							Same as above		
10							8, shell fragments		
15							12, shell fragments		
20							17, Py burrow		
20							20, shell fragment		
25	2.55 4/1	clay	m. sand (foram)	massive	BI 3		mud - foram present (color change)		
28							28, foram patches		
35							35, shell fragments		
54							54, shell fragment		
58							58, Py burrow		
63							63, shell fragments		
77							77, shell fragment		
88							88, Py burrow		
93							93, shell fragment		
121							121, Py burrow		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 --							Same as above 2. shell fragment.		
-- 10 --									
-- 20 --									
-- 30 --							25) small shell fragments 28) small shell fragments 31. py burrow 37. shell fragment.		
-- 40 --									
-- 50 --									
-- 60 --							58. shell fragment.		
67	10Y 3/1	clay	ln sand (foram)	massive	BI 2		64. mud (color change) foram present		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:





	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--	↑							Same as above	SF	2011/12/23
--10--								8, shell fragment		
--20--	biscuit ↓							18, scaphopoda. fragment		
--30--								26, shell fragment, small shell fragments.		
--40--								35		
			PAL							
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	Cinclister bed	5y 4/1			massive	BI = 2 ↓		Silty mud shells fragments	CRZ	23/12/11
-- 10 --										
-- 20 --										
-- 30 --										
39 -- 40 --		OLEY 1 10y 4/1			massive			contact: irregular fluc Forams present few shell frag.		
-- 50 --										
-- 60 --										
-- 70 --										
75						75 SS		<u>75 cm</u> : silty mud with biogenic carbonate		
-- 80 --										
-- 90 --										
99 -- 100 --		OLEY 1 10y 4/1			massive			contact: gradational silty mud shells fragments abundant		
-- 110 --										
-- 120 --										
126 -- 130 --		OLEY 1 10y 4/1			massive	BI = 2		contact: gradational fluc Forams present few shells fragments		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	23/12/11
-- 0 --							Same as above		
8 ↓	grey 10g 411			micritic			contact: gradual		
16 ↓	↓			micritic			contact: irregular		
-- 20 --							Sandy mud shell fragments		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
88 89 ↓							75cm Sandy silt with biogenic carbonate		
92 ↓	↓			micritic			88 89 > shell frag. contact: gradual		
-- 100 --							Silty mud shell frags.		
109 ↓	↓						109: shell frag. contact: irregular		
-- 110 --							mud forams present		
-- 120 --									
-- 130 --									
139 ↓									
-- 140 -- 141							139 141 > P. bonon		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 23/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
69 -- 70 --										69: shell frag.
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								LR	23/12/11
-- 0 --							Red: Same as above Forams present few shell fragments		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
99									
-- 100 --									
102									
-- 110 --									
112									
-- 120 --									
-- 130 --									
131									
134									
-- 140 --									
-- 150 --									

incl. s.

99: Py burrow contact: gradual
 Silty mud
 contact: irregular

Sandy mud
 Abundant shell fragments

131 } shells frags.
 134 }

M

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					OR	23/12/11
-- 0 --							Sandy mud; same as above abundant shell frags.		
-- 10 --							10: shell frags (0.5 x 0.5 cm)		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --						SS 48	<u>48 cm</u> : Silty mud with biogenic carbonate		
-- 60 --									
-- 70 --									
78									
-- 80 --						SS 84	78 } several Scaphopoda shells in situ (live portion) 86		
86							<u>84 cm</u> : Sandy mud with biogenic carbonate		
-- 90 --							contact irregular		
96							Silty mud		
-- 100 --	6EJ1 10g 3/1						shell fragments		
-- 110 --									
-- 120 --									
129							contact: gradual		
-- 130 --							shell frag.		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-13X-6-A_SHLF^562071_20111223070503_.tif

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	3210 411								CR2	23/12/11
-- 10 --										
13		10y 411			massive	B1 -2				
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	23/12/11
-- 0 --				normal	BI = 2		Red		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0	↑	10Y 3/1	silt	msand (foram)	massive	BI 2		SF	2011 12/23	
10	biscuit									
20										
30										
33	↓	5Y 3/1	vf. sand	in sand (foram)	massive (mottled?)	BI 2				
35										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
--0--							Same as above		
--10--							7. scaphopoda fragment 11. shell fragments		
--20--							25. shell fragments, forams 22		
30				irregular contact					
30	5Y 3/1	silt	m. sand (foram)	massive	BI 3		Silty mud - foram present 36. shell fragment		
--40--							40. shell fragment		
biscuit							45. shell fragments		
--50--				gradational contact			49. shell fragment		
34	5Y 3/1	v.f. sand	m. sand (foram)	massive (mottled?)	BI 2		55. Sandy mud - foram present 58. shell fragments		
--60--							64. shell fragments		
--70--							68. scaphopoda fragment		
				gradational contact			72		
78-80	5Y 3/1	silt	m. sand (foram)	massive	BI 3		Silty mud 81. shell fragment		
--90--							89. shell fragment		
							92. shell fragments		
--100--									
--110--							114. shell fragment		
--120--									
--130--							124. shell fragments		
							136		
--140--							142. shell fragment		
145									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
--0--							Same as above		
--10--							-12, shell fragments -15, shell fragment -20, shell fragment		
--20--							-27, shell fragment -29, shell fragments		
--30--				gradational contact			-36, shell fragments		
38									
--40--	10Y 4/1	clay	m. sand (foram)	massive	BI 2	40	mud - foram present		
--50--	biscuit					44	shell fragments		
--60--									
--70--							-73, shell fragment		
--80--							-83, shell fragment		
--90--									
--100--							-107, shell fragments		
--110--							-114, shell fragments		
--120--							-121		
--130--				bioturbated contact					
131	5Y 3/1	silt	m sand (foram)	massive (mottled?)	BI 3		Silty mud		shell fragments
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
-- 0 -- ↑							Same as above. shell fragments		
-- 10 -- 16				sharp? / contact					
-- 20 --	5Y 3/1	clay	f. sand	massive	BZ 2		mud - foram present -25, -26) silt filled burrows -37. shell fragment -49. shell fragment -57. shell fragment.		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 -- 64				gradational contact					
-- 70 -- biscuit	10Y 4/1	silt	m. sand (foram)	massive (chattered)	BZ 2?		Silty mud - foram present - shell fragments -73 83. silt filled burrow		
81 80 --				gradational contact					
-- 90 --	10Y 4/1	clay	m. sand (foram)	massive	BZ 2		mud - foram present -96. P ₂ burrow -98. shell fragment		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
148				gradational contact					
-- 150 -- ↓	10Y 4/1	silt	m. sand (foram)	massive	BZ 2		Silty mud shell fragments.		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/23
		Avg.	Max.						
--0--							Same as above		
				gradational contact			5, shell fragments		
--10--							9.		
11	10Y 4/1	v. sand	m. sand (foram)	massive (mottled?)	BZ 2		Sandy mud ↳ foram present		
--20--						23cm SS	calcareous mud		shell fragments
--30--									
--40--				gradational contact					
44	10Y 4/1	silt	m. sand (foram)	massive	BZ 3		Silty mud - foram present		
--50--				gradational contact					
59									
--60--	10Y 4/1	clay	m. sand (foram)		BZ 2		mud - foram present		
--70--				massive					
--80--									
--90--									93. shell fragments
--100--				gradational contact					
106									105.
--110--	10Y 4/1	silt.	m. sand (foram)	massive	BZ 3		Silty mud - foram present		shell fragments
--120--				gradational contact					120
123	10Y 4/1	clay	m. sand (foram)	massive	BZ 2		mud - foram present		
--130--									128. shell fragment
--140--									
146									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

M

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/12/23
		Avg.	Max.						
-- 0 --							- Same as above		
-- 10 --							- 8, P, burrow - 9, shell fragment		
-- 20 --									
-- 30 --							- 26, shell fragment.		
-- 40 --							- 37, shell fragment - 41, shell fragment - 46, shell fragment		
-- 50 --							- 52, shell fragment		
-- 60 --									
-- 70 --							- 69, shell fragments - 74, shell fragments		
-- 80 --							- 75cm ss - Sandy mud w/ B.C.		
-- 90 --									
-- 100 --									
-- 110 --							- 110, P, burrow		
-- 120 --									
-- 130 --									
-- 140 --							- 137, shell fragment. - 140, shell fragments - 141, P, burrow		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/12/23
		Avg.	Max.						
--0--							Same as above		
--10--							-16) shell fragments -12) shell fragments		
--20--							-24) shell fragments		
--30--							-36) shell fragments		
--40--							-34) shell fragments -37) shell fragments		
--50--				gradational contact			-40) shell fragments -50) shell fragments		
53	10Y 4/1	silt	m. sand (foram)	massive ?	BL 2?		silty mud (biscuit?) - foram present		
55	10Y 4/1	clay	m. sand (foram)	irregular contact	BL 2		mud - foram present		
--60--	biscuit			massive			-61. shell fragments		
--70--							-69, shell fragments		
--80--						75cm ss	Mud w/ B.C. -80, shell fragments		
--90--									
--100--									
--110--									
--120--							-122) shell fragments -123. Pj burrow		
--130--									
--140--									
141									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--							<u>Same as above</u>	ST	2011 12/23
--10--									
--20--							17. Py burrow		
--30--							24. Py burrow		
34									
39			PAL						
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --	SY								
	4/2				3				
-- 10 --	↓	clay	m.s.		↓				
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	↓								
	more reddish								
-- 100 --	↓								
-- 110 --									
				grad. contact					
-- 120 --		clay	m.s.						
-- 130 --									
-- 140 --									
-- 150 --									

① MUD

② SILTY MUD

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
--0--	54 4/2	clay	m.s.		3 ↓				
--10--									
--20--									
--30--							② <u>SILTY NUD</u>		
--40--							small shell frags		
--50--									
--60--									
--70--									
--80--	more reddish ↑								
--90--				grad. contact			90 51 = black patch		
--100--							100-101 = black patch		
--110--									
--120--		silt	m.s.	mottled			<u>SANDY NUD</u> few small shell frags		
--130--									
--140--							144-147 = black patch		
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
--0--									
--10--									
--20--	SY 4/2 ↓	silt	m.s.	mottled	3 ↓		<u>SANDY MUD</u>		
--30--									
--40--				biot. contact					
--50--									
--60--		clay	m.s.	mottled			② <u>SILTY MUD</u>		
--70--									
--80--				grad. contact					
--90--									
--100--		silt	m.s.	mottled			<u>SANDY MUD</u>		
--110--									
--120--		clay	m.s.	mottled			② <u>SILTY MUD</u>		
--130--									
--140--				biot. contact					
--150--									

37

96

97

120

135

137

143

black patch

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	5y								
-- 10 --	4/2 ↓	silt	m.s.	mottled	3 ↓	SS 10cm	Sandy silt w/ B.C. ③ <u>SILTY SAND</u>		
-- 20 --									
-- 30 --									
-- 40 --									
-- 46 --				sharp biot. contact					
-- 50 --									
-- 54 --							54-55: crack		
-- 60 --		clay	m.s.	mottled					
-- 70 --									
-- 78 --				biot. contact					
-- 80 --		silt	m.s.						
-- 90 --				biot. contact mottled					
-- 90 --									
-- 100 --		silt	m.s.						
-- 110 --				sharp contact					
-- 112 --									
-- 120 --									
-- 130 --		clay	m.s.						
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

M

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
-- 10 --		5Y 4/4 ↓								
-- 20 --										
-- 30 --			clay 0	m.s.	mottled	3 ↓		② <u>SILTY MUD</u>		
-- 40 --										
-- 50 --										
-- 60 --					biot. contact					
-- 70 --										
-- 80 --			silt	m.s.	mottled			<u>SANDY MUD</u>		
-- 90 --					biot. contact					
-- 100 --			clay	m.s.	mottled			② <u>SILTY MUD</u>		
-- 110 --					grad. contact					
-- 120 --										
-- 130 --			clay	m.s.				① <u>MUD</u>		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
-- 10 --		S4 4/1 ↓	clay	m.s.		3 ↓				
-- 20 --								(1) MUD		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	DISTURBED (gas expansion?)	5Y						② <u>SILTY MUD</u>	EO	23/12/11
-- 10 --		4/2	clay	m.s.		?				
-- 20 --		↓								
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
--0--	5y 4ls	clay	m.s.	mottled	3		② SILTY MUD		
--10--	↓			grad. contact	↓	9			
--20--		clay	m.s.				① MUD		
--30--		clay	m.s.	biot. contact mottled		25			
--33--				biot. contact		33	small shell frags		
--50--		silt	m.s.	mottled			SANDY MUD small shell frags		
--70--				biot. contact		67			
--80--		clay	m.s.	mottled			② SILTY MUD small shell frags		
--90--				grad. contact		87			
--100--		clay	m.s.				① MUD		
--140--						SS 140 cm	Carbonaceous Mud w/ fragments ^{Bio Carb}		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
	SY 4/2	clay	m.s.		3 ↓		① mud		
		clay	m.s.	grad. contact			② SILTY MUD		
				biot. contact					
		silt	m.s.				SANDY MUD		
				biot. contact					
		silt	m.s.				③ SILTY SAND		
				sharp contact					
		clay	m.s.				④ MUD		
				biot. contact					
		clay	m.s.	biot. contact			⑤ SILTY MUD		
				biot. contact					
		clay	m.s.				⑥ MUD		
				biot. contact					
		silt	m.s.				SANDY MUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
--0--	S4 4/2	silt	m.s.	wotted			SANDY MUD		
--10--	↓			biot. contact	2 ↓	11			
--20--		silt	m.s.				③ SILTY SAND		
--30--									
--40--				wotted		40			
--50--									
--60--	59								
--70--	sloopy								
--80--	28			sharp contact		28			
--90--		silt	m.s.	wotted			SANDY MUD		
--100--				biot. contact		106			
--110--		silt	m.s.	wotted			③ SILTY SAND		
--120--				biot. contact		120			
--130--		silt	m.s.	wotted			SANDY MUD		
--140--									
--150--		clay	m.s.	sharp contact		146			
							② SILTY MUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --		Sy 4/2	clay	m.s.	mottled	3 ↓				
-- 10 --		↓						② SILTY mud with sand-filled burrows ↑ in the upper part of the section.		
-- 20 --								consolidating up		
-- 30 --										
-- 40 --								-36 coral branch fragment and shell fragment		
-- 50 --								-53 shell fragment		
-- 60 --										
-- 70 --										
-- 80 --								-81 shell fragment		
-- 90 --										
-- 100 --								-99 shell fragment		
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
-- 10 --		SY 4 1/2 ↓	clay	m.s.	wotted	3 ↓	SS -14 cm	② SILTY MUD		
-- 20 --										
										27: shell frags-filled burrow
-- 30 --										
					biot. contact					35
-- 40 --										
-- 50 --			silt	m.s.	wotted			③ SILTY SAND		
-- 60 --										
							SS 64	Silty Sand w/ Bio Carb		
-- 70 --										
					biot. contact					76
-- 80 --			clay	m.s.	wotted			② SILTY MUD		
-- 90 --										
					grad. contact					98
-- 100 --										
-- 110 --			clay	m.s.				① MUD		
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

← BISCUIT? →

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --		54								
		4/2	clay	m.s.		3				
-- 10 --		↓								
-- 20 --								① <u>NUD</u>		
-- 30 --										
-- 40 --										
					gradat. contact		46			
-- 50 --			clay	m.s.	mottled			② <u>SILTY NUD</u>		
					biot. contact		53			
			silt	m.s.	mottled			<u>SANDY NUD</u>		
-- 60 --					biot. contact		58			
			clay	m.s.	mottled			② <u>SILTY NUD</u>		
-- 70 --					grad. contact		69			
								① <u>NUD</u>		
-- 80 --			clay	m.s.				very slightly silty (fram.?)		
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-16X-CC-A
 SHLF3563361
 Expedition 339



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
-- 10 --		5Y 4/2 ↓	clay	m.s.		3 ↓		① QUD slightly silty (forams?)		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --					gradat. contact					
-- 60 --			clay	m.s.				① QUD		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-17X-1-A
 SHLF3563621
 Expedition 339



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					EO	23/12/11
-- 0 --									
-- 10 --	54 4/2 ↓	clay	m.s.		2 ↓	SS - 14 cm	① MUD		
-- 20 --							22 shell fragment capillary mud		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --		clay	m.s.	gradat contact mottled			② SILTY MUD		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	SY 4/2	clay	m.s.	mottled	3		② SILTY MUD		
-- 10 --				grad. contact	↓	SS	10 cm Calcareous Silty Mud		
		clay	m.s.	grad. contact			① MUD		
-- 20 --				grad. contact			16/19		
-- 30 --		silt	m.s.	mottled			③ SILTY SAND		
-- 40 --							very few small shell frags all over the silty and sandy beds		
-- 50 --				biot. contact		SS	50 cm Calcareous Silty Mud Sand		
-- 60 --		silt	m.s.	mottled			SANDY MUD		
-- 70 --				biot. contact			67		
-- 80 --		silt	m.s.	mottled		SS	80 cm ③ SILTY SAND Calcareous Sandy Mud		
-- 90 --				biot. contact			90		
-- 100 --		silt	m.s.	mottled			SANDY MUD		
-- 110 --				biot. contact			102		
-- 120 --		silt	m.s.	mottled			③ SILTY SAND		
-- 130 --				biot. contact			112		
-- 140 --		silt	m.s.	mottled			SANDY MUD		
-- 150 --				biot. contact			125		
		silt	m.s.	mottled			③ SILTY SAND		
				biot. contact			138		
		silt	m.s.	mottled			SANDY MUD		
				biot. contact			149		
				biot. contact			② SILTY MUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
-- 10 --		CLY1 104 5/4 ↓	clay	m.s.	mottled	3 ↓		② <u>SILTY MUD</u>		
-- 20 --										
-- 30 --										
-- 40 --					grad. contact		42			
-- 50 --										
-- 60 --								① <u>MUD</u> slightly silty (frams?)		
-- 70 --			clay	m.s.						
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --					grad. contact		118			
-- 130 --			clay	m.s.				① <u>MUD</u>		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-17X-4-A_SHLF²563711_20111223134837_.tif
 Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	CLAY ₁								
-- 10 --	10Y 5/2								
-- 20 --							① QUD		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
	CLAY ₁			abr contact (gradational)					
-- 140 --	10Y 4/2								
-- 150 --									

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
--0--	grey 104	clay	m.s.	grad. contact	2		① <u>MUD</u>		
	↓				↓				
--10--		clay	m.s.				② <u>SILTY MUD</u>		
				biot. contact					
--20--		silt	m.s.				<u>SANDY MUD</u>		
				biot. contact					
--30--									
	33 SOOPY 35								
--40--									
		silt	m.s.				③ <u>SILTY SAND</u>		
--50--							shell frags in clusters		
--60--									
				sharper biot. contact					
--70--									
--80--							④ <u>MUD</u>		
							slightly silty (forams?)		
--90--		clay	m.s.						
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	CLAY 1 10Y 4/1	clay	m.s.		3 ↓		① <u>NUD</u> slightly silty (forams?)		
-- 10 --		clay	m.s.	biot. contact mottled			② <u>SILTY NUD</u> shell frags		
-- 20 --				biot. contact					
-- 30 --									
-- 40 --							① <u>NUD</u> slightly silty (forams?)		
-- 50 --		clay	m.s.						
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --		grey								
		1				3				
		clay		m.s.						
-- 10 --		10Y								
		4/1				↓				
		↓								
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

① mud
 slightly silty (forams?)

42 shell fragment

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
		GLE71	clay	m. s.		3				
-- 10 --		104 4/1				↓				
-- 20 --								16 } 19 } (1) <u>NUD</u>		
								black silt-filled vertical burrow(?)		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
								135 shell fragment		
-- 140 --										
								148 shell fragment		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --	CILEY1 10Y 4/2 ↓	clay	m. s.		2 ↓		① mud		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --							76-77: shell frags		
-- 80 --									
-- 90 --									
-- 100 --							SS - 100cm calcareous Mud - 105: shell frags		
-- 110 --									
-- 120 --				grad. contact					
-- 130 --		clay	m. s.	mottled			② <u>SILTY MUD</u> with shell frags		
-- 140 --									
-- 150 --									


MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	GLE71 10Y								
-- 10 --	4/2 a little bit less greenish	clay	m.s.	mottled	3		(2) <u>SILTY MUD</u>		
				bioturb. contact	↓				
-- 20 --	than previous section								
-- 30 --	↓ all along the section								
-- 40 --		silt	m.s.	mottled		SS - 40cm	<u>SANDY MUD</u> few small shell frags Silty sand w/ Bio Carb		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --				sharp contact					
-- 90 --		clay	m.s.	mottled			(2) <u>SILTY MUD</u>		
-- 100 --				biot. contact					
-- 110 --		silt	m.s.	mottled			<u>SANDY MUD</u>		
-- 120 --				biot. contact					
-- 130 --		clay	m.s.	mottled			(2) <u>SILTY MUD</u>		
-- 140 --									
-- 150 --		silt	m.s.	mottled			<u>SANDY MUD</u>		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
	GLEYS 104 4/12						-3/4 scalloped fragment		
	little bit less greenish	silt	m.s.	mottled	3 ↓		 SANDY MUD few small shell frags		
	all along the section			biot. contact					
		clay	m.s.	mottled			② SILTY MUD		
				biot. contact					
		silt	m.s.	mottled			SANDY MUD few small shell frags		



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --				biot. contact			<u>SANDY mud</u> a little bit more reddish between 0 - 99 cm.		
	CLAY 10Y 4/2 ↓ more reddish				3 ↓				
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							<u>SILTY mud</u> few small shell frags		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	more reddish ↑			biot. contact					
-- 100 --							<u>SANDY mud</u> small shell frags		
-- 110 --		silt	m.s.	mottled					
-- 120 --				grad. contact					
-- 130 --		clay	m.s.	mottled			<u>SILTY mud</u> small shell frags		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --	GLEYS 10Y								
-- 10 --	4/2 ↓ more reddish	clay	mi.s.	mottled	3 ↓		② SILTY MUD small shell frags		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-19X-1-A
 SHLF254381
 20111223162900



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --									
-- 10 --	CLAY 10Y 4/1								
-- 20 --	↓	silt	w.s.	mottled	3 ↓		SANDY MUD with small shell frags		
-- 30 --	SLIGHTLY BISCUIT								
-- 40 --									
-- 50 --									
-- 55 --				sharp biot. contact					
-- 60 --		clay	w.s.	mottled			② SILTY MUD		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
		GREY 10Y 4/1 ↓	silt	m.s.		3 ↓				
-- 10 --					mottled			③ <u>SILTY SAND</u>		
-- 20 --										
-- 30 --					biot. contact		35			
-- 40 --			silt	m.s.	mottled biot. contact		40	<u>SANDY MUD</u>		
-- 50 --			clay	m.s.				② <u>SILTY MUD</u>		
-- 60 --										
-- 70 --	BISCUIT				grad. contact		65 67	small coral branch fragment		
-- 80 --										
-- 90 --	SLIGHTLY		clay	m.s.				① <u>MUD</u>		
-- 100 --										
-- 110 --							SS - 110cm	<u>Calcareous Mud</u>		
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-19X-4-A
 SHLF3564471
 20111223164407.tif

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	CLAY 109 4/2 ↓	clay	m.s.		↓		① mud		
-- 10 --									
-- 20 --									
-- 30 --				biot. contact					
-- 40 --	BISCUIT								
-- 50 --	SLIGHTLY	silt	m.s.	mottled			③ SILTY SAND few shell frags		
-- 60 --				biot. grad. contact					
-- 70 --									
-- 80 --		silt	m.s.	mottled			SANDY mud few shell frags		
-- 90 --									
-- 100 --	S7 SOUPY 102					SS - 100 cm	Calcareous Silty Sand		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --	CLEM 104				2		4 coral branch frags?		
-- 10 --	4/1 ↓	silt	m.s.	mottled	↓		<u>SANDY MUD</u> small shell frags		
-- 20 --	16 SOUPY 22								
-- 23 --				blot. contact					
-- 30 --		clay	m.s.	mottled			② <u>SILTY MUD</u>		
-- 40 --									
-- 48 --				grad. contact					
-- 50 --									
-- 60 --		clay	m.s.				shell frags ① <u>MUD</u>		
-- 62 --									
-- 64 --									
-- 70 --	BISCUIT								
-- 76 --							76 shell frags		
-- 80 --									
-- 90 --	SLIGHTLY								
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			clay	m.s.		3			ED	23/12/11
					grad. contact	↓				
-- 10 --		CLAY 10Y 4/2 ↓	clay	m.s.	walled			15 silt fnt		
-- 20 --					biot. contact					
-- 30 --										
-- 40 --										
-- 50 --			clay	m.s.						
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	6LEYA 10Y 4/1	clay	m.s.		2 ↓		① <u>MUD</u>		
-- 20 --				grad. contact					
-- 30 --		clay	m.s.	rotated			② <u>SILTY MUD</u> small shell frags		
-- 45 --				biot. contact					
-- 60 --		clay	m.s.				① <u>MUD</u>		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

SLIGHTLY BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					EO	23/12/11
-- 0 --									
	CLAY 10Y 4/1 ↓	clay	u.s.		3 ↓				
-- 10 --									
									① <u>NUD</u>
-- 20 --									
-- 30 --									
				grad. contact					
-- 40 --									② <u>SILTY NUD ?</u>
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		GLEYS 104	clay	m.s.		3				
-- 10 --		4/2				↓		8: crack		① QUD
-- 20 --		↓				SS		19: crack 20cm		Calcareous Mud
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



SLIGHTLY BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	grey				3				
-- 10 --	10y 4/2	clay	m.s.		↓				
-- 20 --	↓								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
							103: shell frags		
							112-121: black diffuse patches		
							115		
-- 120 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	grey 10Y 4/2	silt	m.s.	mottled	3		③ SILTY SAND		
-- 10 --		silt	m.s.	biot. contact mottled			SANDY MUD few shell frags		
-- 20 --				biot. contact					
-- 30 --	more reddish	clay	m.s.	mottled			② SILTY MUD		
-- 40 --				grad. contact			20-55 cm: more reddish		
-- 50 --	more reddish 55								
-- 60 --		clay	m.s.				① MUD		
-- 70 --									
-- 80 --							80 shell frags		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

SLIGHTLY BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	GREY 10Y 4/2	clay	m.s.		3 ↓		① mud slightly silty (forams?)		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
	GREY N 4/2						130-150 cm = slightly darker		
-- 140 --									
-- 150 --									

SLIGHTLY BISCUIT

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
	grey 104 4/1	clay	m.s.	mottled	?		(2) SILTY MUD black sand-filled burrows		
				biot. contact	↓				
		silt	m.s.	mottled			(3) SILTY SAND		
						SS - 33cm	small shell frags Calcareous Silty Sand (fine dolomite grains)		
				biot. sharp contact					
		silt	m.s.	mottled			(2) SILTY MUD with sand-filled burrows		
				biot. contact					
		silt	m.s.	mottled			SANDY MUD few small shell frags		

SLIGHTLY BICUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	grey 1								
	104	silt	m.s.	mottled	3				
-- 10 --	411				↓		③ SILTY SAND very few small shell frags		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --							100) black patch 103)		
-- 110 --									
-- 120 --				grad. contact					
		silt	m.s.				SANDY (UD)		
-- 130 --									
-- 140 --									
-- 150 --									

BISCUIT?

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	CLEY1 10Y 4/1	silt	med. s.	mottled	2 ↓		SANDY MUD very few small shell frags 3-11 = black patch		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --									
	grey 10Y 4/1	clay	m.s.		3 ↓		SANDY MUD very few small shell frags		
-- 10 --									
-- 20 --									
-- 30 --	BISCUIT								
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		CLAY								
		10Y 5/2	clay	m.s.		2				
-- 10 --		↓				↓				① NUD
-- 20 --										-13.14: scaphopod (oblique) (small opening up)
-- 30 --										
-- 40 --										-33 shell frags
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		CLAY 104 5/2	clay	m.s.		3				
-- 10 --		↓				↓		① MUD		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										123/24: mud-filled burrow
-- 140 --										137: silt-filled burrow
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		GLY1								
		10Y	clay	m.s.		3				
-- 10 --		5/1				↓				
-- 20 --								(1) 10D		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

SLIGHTLY BISCUIT

-90: scalloped front

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
		OLEY 1								
		10Y 5/2	clay	m.s.		2 ↓				
-- 10 --										
-- 20 --								- 18: shell fragment - 20: black silt-filled burrow		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

SLIGHTLY BISCUIT

① NO

grad. contact

134

139 py-grain

clay m.s.

② SILTY NO
(very muddy)

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --										
		GREY 10Y 512	clay	m.s.		3				
-- 10 --						↓				② SILTY MUD
-- 20 --										↓ coarsening downwards
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --							85 120			Calcareous Silty Mud
-- 130 --										132: scalloped fgmt
-- 140 --										
-- 150 --										

BISCUIT
SLIGHTLY

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		OLEY1								
-- 10 --		10Y S1/2	clay	m.s.	mottled	3 ↓				
-- 20 --		↓						16: coral branch fragment 19: shell fragment		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT
SLIGHTLY

(2) SILTY mud
 very silty
 few shell fragments
 ↓
 coarsening downwards
 ↓
 sand-filled burrows
 (59-60) interval py, scalloped

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
	grey 10Y 5/2	clay	m.s.	mottled	3		8/9 crack ② SILTY MUD		
				biot. contact			15 16: nauplioid forams		
		silt	m.s.	mottled			SANDY MUD 25: echinoderm spine forams Calcareous sandy mud		
				bioturb. contact		25 SS	29		
		clay	m.s.				② SILTY MUD coarsening upwards		
							59: crack few small shell forams		
							99: crack		



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
	GLEY 10Y 5/1	clay	m.s.		2		(2) SILTY MUD		
	SLIGHTLY BISCUIT	clay	m.s.	grad. contact			(1) MUD		
							few small shell frags all along the section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	GLE 11 104				3				
-- 10 --	S/L ↓				↓				
-- 20 --		clay	m.s.				① NUD		
-- 30 --									
-- 40 --									
-- 50 --				biot. contact					
-- 60 --									
-- 70 --		silt	m.s.	mottled			SANDY NUD few small shell frags		
-- 80 --									
-- 90 --		clay	m.s.	biot. contact			① NUD sand-filled biomas? Biscuit? → disturbed.		
-- 100 --				biot. contact					
-- 110 --									
-- 120 --		silt	ms				SANDY NUD few small shell frags		
-- 130 --									
-- 140 --									
-- 150 --									

BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct./ contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
--0--		grey 10Y								Very greenish section
--10--		S/S ↓ very greenish	silt	m.s.	mottled	3 ↓				SANDY MUD
--20--					grad. contact					18
--30--			clay	m.s.	mottled					② SILTY MUD
--40--										
--50--										
--60--										
--70--										
--80--	BISCUIT									
--90--					grad. contact					94
--100--										
--110--			clay	m.s.						① MUD slightly silty (with + forams!)
--120--										
--130--										
--140--							SS	140cm		Calcareous Mud
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	CLEM 10Y 5/2				3				
-- 10 --					↓				
	↓ very greenish	clay	m.s.				① <u>MUD</u> slightly silty (frams?) very greenish		
-- 20 --									
	↑ very greenish								
-- 30 --									
-- 40 --									
				grad. contact					
-- 50 --									
	CLEM 1 10M 5/2	clay	m.s.				② <u>MUD</u>		
-- 60 --									
-- 70 --									
	BISCUIT								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Iw

339-U1389A-22X-5-A
 SHLF3565931
 20111223204958

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: EO	Date: 23/12/11
		Avg.	Max.						
-- 0 --									
-- 10 --	GREY 104 S12	clay	m.s.		3 ↓		① FIUD		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

BISCUIT

-- 52: shell frags

-- 119: shell frags

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --									
	GREY 1								
-- 10 --	10Y	clay	m.s.		3		⊙ MUD		
	5/1				↓				
-- 20 --	↓								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

BISCUIT

105 shell fragment

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		GLYM								
-- 10 --		10Y 5/2	clay	m.s.		3 ↓ 7	SS	10 cm Calcareous Clay ① NUD		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										60/62: cracks
-- 70 --										
-- 80 --										
-- 90 --										88: crack 93: crack
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT

~~25cm SS~~ Calcareous sandy mud

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	23/12/11
-- 0 --	GLY41 10Y 5/1								
-- 10 --	↓	clay	m.s.		3 ↓		7: scaphopod fgmt ① <u>NOI</u>		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
-- 0 --									
-- 10 --	GLY 1 109 5/2	clay	m-s.		3 ↓		-16 shell frnt (1) 900 -18 : scaphopd frnt		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --							-92 shell frnt		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --							-129 scaphopd frnt		
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --										
		CLAY								
-- 10 --		10Y S12	clay	m-s.		3 ↓				
-- 20 --								15 shell front		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --								66: shell front		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --								126 shell front		
-- 140 --								135 py. stain		
-- 150 --								142 shell front		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		grey 104 s/s	Clay	med		3 ↓				
-- 20 --		↓						19 shell fragment		
-- 30 --								① <u>qud</u>		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT
SLIGHTLY

SS
Mud

~~Calcareous Mud~~

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		CLAY 10Y 5/1 ↓	clay	m.s.		3 ↓				
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

SLIGHTLY BISCUIT

⊙ 700

-82
-85 } big echinoderm frags

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	23/12/11
-- 0 --										
		grey clay		in. s.		3				
-- 10 --		grey silt				↓				
-- 20 --								① mud		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT

88 shell frags

99 SS — Calcareous Silty Mud

111 shell frags

140 SS Calcareous clay

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
			Avg.	Max.						
-- 0 --		grey 10Y 5/2	clay	fine		3		② <u>SILTY</u> mud few small shell frags		
-- 10 --		↓				↓				
-- 20 --		BISCUIT	clay	m.s.	grad. contact			① <u>mud</u>		
-- 30 --									27	
-- 40 --		BISCUIT	clay	m.s.	grad. contact			② <u>SILTY</u> mud		
-- 50 --									45	
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/12/11
		Avg.	Max.						
	GREY 1 10Y 5/2	clay	m.s.		3 ↓		② SILTY MUD few small shell frags		
	↓	clay	m.s.				① MUD		
	BISCUIT								
--0--									
--10--									
--20--									
--30--									
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/29
			Avg.	Max.						
--0--		10Y 4/1	clay	f. sand (foram)	massive	B1 2		mud - foram present - 9, gastropoda frag. here/		
--10--										
--20--										
--30--										
--40--										
--50--	biscuit									
--60--										
--70--										
--80--		10Y 4/1	silt	f. sand (foram)	massive	B2 2	83	silty mud - foram present		
--90--										
--100--		10Y 4/1	vf. sand	m. sand (foram)	massive	B2 2		Sandy mud - foram present - 104, shell fragments		
--110--										
--120--										
--130--										
--140--										
--150--										

-28
-42
small shell fragments
-50
S-S
Calcareous Mud
-69
foram patches

gradational contact

gradational contact



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
--0--							Same as above		
--10--						10 S-S	Calcareous sandy Mud		
--20--									
--30--							29, shell fragment		
--40--				gradational contact			43, shell fragment		
43	10Y 4/1	silt	m. sand (foram)	massive	BI 2		Silty mud - foram present 45, foram patch 48, shell fragment 52.		
--50--				gradational contact					
60	10Y 4/1	clay	m. sand (foram)	massive	BI 2		Mud - foram present small shell fragments		
--70--									
--80--									
--90--				gradational contact			70 P, burrow		
94	10Y 4/1	silt.	m. sand (foram)	massive	BI 2		Silty mud - foram present 98, shell fragments		
--100--									
--110--							109		
--120--							small shell fragments		
--130--									
--140--									
--150--							145		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
0							Same as above		
10							12, shell fragments		
20									
30							32, shell fragments		
40							small shell fragments		
43							43, scaphopoda fragment		
49				gradational contact					
52	10Y 4/1	clay	in sand (foram)	massive	BI 3		mud - foram present		
55							55, shell fragments		
60									
70	biscuit								
80							84, shell fragments		
90							96, foram patch		
100							104, shell fragments		
110							110, shell fragments		
120									
127							127, shell fragments		
130									
140									
144							144, shell fragments		
150									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 26/11 17/24
		Avg.	Max.						
-- 0 --							Same as above		
							shell fragments		
-- 10 --							Py burrow		
-- 20 --							Py burrow		
							shell fragments		
-- 30 --									
							shell fragments		
-- 40 --									
							shell fragments		
-- 50 --									
							shell fragment		
-- 60 --									
							shell fragments		
-- 70 --									
-- 80 --							shell fragments		
-- 90 --									
							shell fragment		
-- 100 --							Py burrow		
-- 110 --									
							shell fragments		
-- 120 --									
-- 130 --									
							shell fragments		
-- 140 --									
							shell fragments		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/12/24
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --								-13. Py burrow -17 -23 -25. scaphopoda fragment.		
-- 30 --										
-- 40 --								-41) small shell fragments -43 -47. scaphopoda fragment.		
-- 50 --								-56. foram patch		
-- 60 --								-63. Py burrow		
-- 70 --										
-- 80 --								-80 shell fragment -85 shell fragment		
-- 90 --								-90, shell fragments		
-- 100 --								-99. shell fragments		
-- 110 --										
-- 120 --								-118. shell fragment scaphopoda fragments -123 scaphopoda fragment. -125. Py burrow		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ST	2011 12/29
--0--							Same as above 4, shell fragment 14, foram patch 25, shell fragments 59, shell fragments 65 119, shell fragment greenish layer. (not change color chart) 104 111, P, burrow 117 119, shell fragments	ST	2011 12/29	
--10--										
--20--										
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--							gradational			
104										
--110--		2.5T 4/1	clay	in sand (foram)	massive	BI 3	mud - foram present			
--120--										
--130--										
--140--										
141										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/12/24
		Avg.	Max.						
--0--							- Same as above		
--10--				gradational contact			- 7. foram patch		
19									
--20--	2.5Y 4/1	silt	m. sand (foram)	massive	BZ 2		- Silty mud - foram present		
--30--) small shell fragments		
--40--	biscuit						- 35		
--50--							- 42. scaphopoda fragment.		
--60--							- 51		
--70--) small shell fragments		
--80--							- 60		
							- 68		
) small shell fragments		
							- 80		
86									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
--0--							Same as above		
--10--							6, shell fragments		
--20--							12, shell fragment		
22				gradational			15, shell fragment		
27	2.5 4/1	v. sand	f. sand	massive?	BZ		Sandy mud		
--30--	2.5 4/1	silt	f. sand (foram)	massive	BZ?		small shell fragments		
32							silty mud - forams present		
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--	fall in	OLEY ₁							CR	24/12/11
2		10g	day		massive	BI		Fluc		
--10--		4/1				=2		Forams present few shell fragments		
--20--	Discontinuity									
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 24/12/14
			Avg.	Max.						
-- 0 --								Red. Same as above		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
125 -										
-- 130 --										-125: Forams
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	24/12/11
-- 0 --									
2							Mud: same as above - 2: Py burrow		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
69							-69: shell frag. <i>Calcareous Mud</i>		
-- 70 --									
-- 80 --						80 SS			
-- 90 --									
-- 100 --									
-- 110 --									
116							-116: shell fragment contact: predation		
118									
-- 120 --									
	10g 4/1			name	BI =2		Silty mud Forams present		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0									GR	24/12/11
3								Same as above contact: pedotonal		
10	8/10 x	105 4/1			Medium	BI =2		Sandy mud Shell fragments abundant		
20	2x									
30										
40										
50										
60										
70										
80							80 SS	Calcareous Sandy Mud		
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	24/12/11
-- 0 --							Same as above Shell fragments abundant		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 -- 111 112							111 → shell frags. 112		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--									WR	24/12/11
--10--		10g						contact - pedobiont		
--20--	disturb	4/1			medium	B1 =2		Silty mud Shell fragments		
--30--										
--40--								contact - pedobiont		
44		10g						Fluc		
--50--	disturb	4/1			medium	B1 =2		Forams present		
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Red: same as above Forams present	CR	24/12/11
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
63 --							63: Shell fragments		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

2445



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Mud: Same as above Forams present	UR	24/12/11
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
-0--									
fall in									
-10--									
13	10Y 4/1	clay	f. sand (foram)	massive	BZ 2		mud - foram present		
-20--							19) shell fragments		
-30--							22		
-40--							35. shell fragment		
-50--							44. shell fragments		
-60--									
-70--									
biscuit							75		
-80--							79) shell fragments		
-90--							84		
							5-5	Calcareous Mud	
-100--									
-110--							105. shell fragment		
-120--							114. shell fragment by burrow?		
-130--							117 shell fragment		
-140--									
145				gradational					
-150--	10Y 3/1	silt.	f. sand (foram)	massive	BZ 2		Silty mud - foram present		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/29
		Avg.	Max.						
							Same as above		
							11) echinoid fragment? 12) shell fragment 17)		
							24) shell fragments 31)		
				gradational			36) echinoid fragment 39)		
41	10Y 9/1	v-f. sand	m. sand (foram)	massive (mottled?)	BI 2		Silty sand - foram present 46) shell fragments 49) shell fragments 53) shell fragments 58) shell fragments		
	biscuit						72)		
							79) small shell fragments 85) sandy silt w B.C.		
							103) scaphopoda fragment 108) scaphopoda fragment 115)		
							125) shell fragments 128) scaphopoda fragment 134) shell fragment 135) scaphopoda fragments		
141									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

M

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					SF	2011 12/24
-- 0 --							Same as above		
						5	scaphopoda fragments		
						8			
-- 10 --						11			
						14			
-- 20 --						23	shell fragments		
						25			
						27			
-- 30 --						28	small shell fragments		
						32			
						33			
-- 40 --						40			
-- 50 --							49, shell fragment		
-- 60 --							66, scaphopoda fragment		
							64, shell fragment		
							66		
-- 70 --							70, scaphopoda fragments		
							71		
							75, echinoid fragments		
-- 80 --							79, scaphopoda fragment		
							89, shell fragments		
							91		
							96	small shell fragments	
-- 100 --									
							109		
-- 110 --									
							119, shell fragments		
-- 120 --							124, echinoid fragments		
-- 130 --							136	shell fragments	
-- 140 --									
-- 150 --							156		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					SF	2011/12/24
↑							Same as above		
							6 small shell fragments		
							12, shell fragment		
							18		
							shell fragments		
							44 SS		
							Silty sand with Bio Carb		
							65		
				bioturbated contact			70, shell fragment		
	10X 4/1	SH	m. sand (foram)	massive	BZ 3		Silty mud - foram present		
							72, shell fragments		
							84, shell fragment		
							99, shell fragment		
							104, shell fragments		
							129, shell fragment		
				gradational contact			146, scaphopoda fragment		
147	10X 4/1	vf. sand	m. sand	massive	BZ 3		Silty sand - foram present		
↓									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
--0--							Same as above		
--10--				irregular contact (sharp?)			3. shell fragment 6. small shell fragments		
11	10Y 4/1	clay	f. sand (foram)	massive	BI 3		14 mud-foram present silt filled burrows		
--20--				gradational contact					
26									
30	10Y 3/1	silt	f. sand	massive	BI 2?		silty mud 28. shell fragment		
--30--									
biscuit	10Y 4/1	clay	m. sand (foram)	irregular contact (sharp?) massive	BI 2		mud (- foram present)		
--40--									
--50--							49. foram patch		
--60--							shell? fragment 64. (coral? fragment)		
66									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/29
		Avg.	Max.						
-- 0 --							Same as above		
-- 5 --							foram patch		
-- 10 --									
-- 15 --							foram patch		
-- 20 --									
-- 25 --									
-- 30 --									
31									
35									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-0-- 3	10g 15g	OLEY 1 10g 4/1			massive	B1 =2		Pred Forams present few shell fragments	LR	24/12/11
-10--	biswix									
-20--	↓									
-30--										
-40--										
-44								contact: irregular		
-50--	biswix	10g 4/1			massive	B1 =2		Silty mud Forams present abundant shell fragments		
-60--										
-70--										
-80--										
-90--										
-100--										
-110--										
-120--										
-130--										
-140--										
-150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									CR	24/12/11
-- 10 --								Same as above Sclerophoda shells abundant (4-7 cm)		
-- 20 --								contact irregular		
24		109			medium	31		Red		
-- 30 --	bioturb.	411				=2		Forams present Few shell fragments		
-- 40 --	↓									
-- 50 --		same			same	same		contact pedicular Silty mud		
-- 60 --								60] Sclerophoda shell contacts irregular		
63		same			same	fine		Silty sand		
-- 70 --								Shells abundant; mainly Sclerophoda		
-- 80 --										
-- 90 --										
-- 100 --							-106			
							SS	Silty sand		
-- 110 --										
-- 120 --										
-- 130 --										
131										
-- 140 --	bioturbation									
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								CR	24/12/11
--0--									
--10--									
--20--									
25									
--30--									
32									
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
145									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



unconsolidated / fine

brackish

log 4/1

marine

34-2

Silty mud

contact: gradational

Mud
Forams present
few shells fragments

123
SS

Calcareous Mud

contact: irregular

Silty mud

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									UR	24/12/11
-- 10 --								Same as above abundant shells fragments		
-- 20 --										
-- 30 --										
-- 40 --								contact: irregular fossil		
-- 50 --	↓	10% 4/1 ↓			Mudstone ↓	B1 =2		Torulus present		
-- 60 --										
64								64 → Shell frag		
65								65 →		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
114								114 Py burrow		
-- 120 --								contact: gradual		
122						B1 =2		Silty mud		
-- 130 --										
-- 140 --								contact: irregular		
144						B1 =3		fossil		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0								UR	24/12/11	
0-10	A burrow									
10-20										
20-24										
24-29										
29-30										
30-40										
40-50										
50-60		5Gy 4/1								
60-70										
70-80										
80-90										
90-100										
100-110										
110-120										
120-126										
126-130										
130-140										
140-150										

Level: Same as above
 Forams present
 Shell fragments

B₁
 = 2

-24: Py burrow
 -29: Py burrow

gradational color change

-126
 SS Calcareous Mud

-130: B burrow

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Same as above	CR	24/12/11
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --							contact: irregular		
111				arenite	B ₂ =2		Silty sand abundant shell frag.		
-- 120 --	disturb. 1								
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0								CR	24/12/11	
4	disturb. X	same			same	same				
10										
20										
30										
36										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										

contact: irregular
 silty mud
 shell frag.
 Forams present

contact: gradual
 Mud
 Forams present

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		Same			Same			Same as above	CR	24/12/11
-- 10 --										
-- 17 --										
-- 20 --								17: Scaphopoda shell frag.		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--									CR	24/12/11
6	^							Silty sand		
								contact: irregular		
		Grey			massive			Silty mud		
--10--	disturb. x	10g			↓	BI = 2		Forams present		
		4/1						shell frags. present (1mm)		
--20--		↓								
--30--										
--40--										
--50--										
--60--										
68								contact: irregular		
--70--	↓	↓			↓	↓		Silty sand		
								shell frags. abundant		
								Forams		
--80--										
84								contact: irregular		
	↓	↓			↓	↓		Mud		
--90--								Forams present		
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 24/12/11
			Avg.	Max.						
-- 0 --								Mud : Same as above Forams present few shell frags.		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
146								-146: Py below		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	24/12/11
-- 0 --							Mud: same as above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
88							contact: gradational		
-- 90 --	105			mono	BI		Silty mud		
	411				2		contact: gradational		
98							Silty sand		
-- 100 --							abundant shell frags.		
-- 110 --						-116 SS	Silty sand w/ Bio carb		
-- 120 --									
-- 130 --									
-- 140 --									
142							142: contact: irregular		
-- 150 --							Mud Forams present		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: OR	Date: 24/12/11
			Avg.	Max.						
-- 0 --								Mud: Same as above Few shell fragments Forams present		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
55										
-- 60 --						61 SS		55: Py burrow Calcareous Mud		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CZ	Date: 24/12/11
			Avg.	Max.						
-- 0 --								Mud, same as above Few shell fragments Forams present		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth (cm)	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0					massive				UR	24/12/11
10					↓					
20	↓									
30										
40										
42					↓			contact: gradual Silty mud		
50										
60	↓				↓			Silty sand shell fragments		
70										
75					↓	BI = 1		contact: irregular Sand interbedded with mud 10y 5/1		
80	↓						-83 SS -84 SS	Sand layer thickness ± 0.5cm mud " " " 2mm		
90										
91					↓			contact irregular Silty sand shell fragments		
100	↓									
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 24/12/11
			Avg.	Max.						
--0--								Same as above		
5-								contact: irregular		
--10--		109			normal	B1		Red		
		411			↓	"2		Forams present		
--20--	↓	↓				↓				
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	26/12/11
-- 0 --							Mud: Same as above Fossils present:		
5							5 cm		
-- 10 --									
-- 20 --									
27 29							28 } Fossils 29 }		
-- 30 --									
38							38: Fossil		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24	
			Avg.	Max.							
-- 0 --	↑	10T 4/1	clay	m. sand (foram)	massive	BI 3		mud - foram present	SF	2011 12/24	
-- 10 --											
-- 20 --											20. foram patch
-- 30 --											34. shell fragment
-- 40 --											48. shell fragments
-- 50 --											65. foram patches
-- 60 --											75. shell fragment
-- 70 --											84 - shell fragment
-- 80 --											92. foram patch
-- 90 --											102. P ₁ burrow 103. foram patch, P ₁ burrow
-- 100 --											115. shell fragment
-- 110 --											122. P ₁ burrow
-- 120 --											134. foram patch
-- 130 --											143. foram patches
-- 140 --											
-- 150 --	↓										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/29
		Avg.	Max.						
-- 0 --							Same as above 2, small shell fragments		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --							- 49. P ₁ burrow - 49. foram patch - 49. shell fragment - 51. foram patches		
-- 60 --									
-- 70 --							- 19. shell fragments		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --							- 129. shell fragments - 139. shell fragment, P ₁ burrow? - 140) small shell fragments - 145)		

biscuit

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --							10, shell fragment		
-- 20 --							18, foram patch		
-- 30 --							32, shell fragments		
-- 40 --							47, shell fragment		
-- 50 --				gradational			56, P ₂ burrow		
59									
-- 60 --		silt	m. sand (foram)	massive	BI 2		63 Silty mud - foram present		
-- 70 --	5Y 3/2						shell fragments		
-- 80 --	biscuit						71		
-- 90 --							85	84 Calcareous silty mud	
-- 100 --							small shell fragments		
-- 110 --				gradational (bioturbation)					
119							118		
-- 120 --		clay	m. sand (foram)	massive	BI 3		mud - foram present		
-- 130 --	10Y 4/1						126 silt filled burrow		
-- 140 --							130, shell fragment		
-- 150 --							142, shell fragment		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/12/24
		Avg.	Max.						
							Same as above		
							21, foram patch		
							26, foram patch		
							34, P ₂ burrow		
							37, shell fragment		
							38, P ₂ burrow		
							50, shell fragments		
							55, foram patch		
							66 calcareous mud		
							78, foram patch		
							89, P ₂ burrow		
				gradational contact					
108									
-110-	10Y 4/1	silt	h. sand (foram)	massive	BZ 3		silty mud - foram present		
				gradational contact			small shell fragment		
118									
-120-	10Y 4/1	vt. sand	h. sand (foram)	massive	BZ 3		silty sand - foram present		
							shell fragments		
							Silty sand w/B.C.		
				irregular contact					
135									
-140-	10Y 4/1	clay	h. sand (foram)	massive	BZ 3		mud - foram present		
-150-									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ST	Date: 2011 12/24
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --							11, shell fragments		
-- 20 --									
-- 30 --									
-- 40 --							39, shell fragments		
-- 50 --							49, shell fragments 51		
-- 60 --									
-- 70 --									
-- 80 --							79 small shell fragments		
-- 90 --									
-- 100 --							96 99, shell fragment		
-- 110 --							115, shell fragment 118, P ₁ burrow		
-- 120 --							125, shell fragment 127, P ₁ burrow 130, P ₁ burrow		
-- 130 --							139, shell fragments		
-- 140 --							147, P ₁ burrow		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ST	Date: 2011 12/24	
			Avg.	Max.							
-- 0 --	↑							Same as above			
-- 10 --											-4 -17) shell fragments
-- 20 --											
25											
-- 30 --	↓	10Y 4/1	clay	m. Sand (foram)	massive	BT 3		mud - foram present			
-- 40 --		biscuit						-30, shell fragments			
-- 50 --								-38 -51) shell fragments			
-- 60 --								-59, shell fragment			
66											
-- 70 --											
-- 80 --											
-- 90 --											
-- 100 --											
-- 110 --											
-- 120 --											
-- 130 --											
-- 140 --											
-- 150 --											

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--	↑				gradational			Same as above	SF	2011 12/24
4		5Y 3/2	silt	m. sand (foram)	massive, gradational?	BZ 2		silty mud - foram present - shell fragment		
--10--										
12		10Y 4/1	clay	m. sand (foram)		BZ 2		mud - foram present - 17, foram patch		
--20--					massive					
	biscuit									
--30--								- 34, shell fragments		
39	↓									
--40--										
45			PAL.							
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--		Grey 10y 4/1			massive	91 = 2		Mud	CRZ	24/12/11
--10--										
--20--	disturb				↓	↓	20	contact: gradational Silty mud shell frag. abundant		
--30--					↓	↓		Mud Forams present		
--40--								contact: irregular		
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0								CR	24/12/11	
18										
20	discart	105 4/1			massive	BI=2				
30	↓									
40										
50										
60										
70										
80										
90										
94										
96										
103										
103										
115										
115	discart	506 4/1			massive	BI=2				
120	↓									
130										
138										
138										
140										
150										

Reel: Same as above
 contact: gradational
 silty mud
 shell fragments
 Forams present

49 SS - calcareous silty mud

50
 94 } shells frags.
 103 } shell frag.

contact: irregular
 Reel
 Forams present

138: Forams

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Red: Saw as above Forams present	CE	24/12/11
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
133							133: Shell frags.		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 24/12/11
		Avg.	Max.						
-- 0 --							Red. Same as above forams present		
-- 10 --									
12 13							Py burrow		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

91
SS — Calc. Mud

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									QR	26/12/11
-- 10 --	← Bioturb.							Red: same as above		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
78										
-- 80 --		GLEY 1				B1		color change		
		10y				=3		mud		
		3/1								
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR	Date: 24/12/11
			Avg.	Max.						
-- 0 --								Sand on above Forams present		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --								color change		
-- 45 --		OLEY 10g 4/1				BI =2		Red Forams present		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								Same as above Forams present	GR	24/12/11
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										


MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24	
		Avg.	Max.							
-- 0 --	10Y 4/1	clay	m. sand (foram)	massive	BI 2		mud - foram present			
-- 10 --										
-- 20 --										
-- 22 --										22) py burrows
-- 23 --										23) py burrows
-- 24 --										24, shell fragment
-- 30 --										30, shell fragment
-- 35 --										35, shell fragment
-- 40 --										42, shell fragment
-- 50 --										
-- 60 --										
-- 64 --										64) coarse layer
-- 68 --										68
-- 70 --										biscuit
-- 79 --	79. foram patch									
-- 80 --										
-- 90 --										
-- 100 --	103. foram patch									
-- 110 --	117. foram patch									
-- 120 --	124. foram patch									
-- 130 --										
-- 140 --										
144				gradational						
-- 150 --	10Y 4/1	silt	m. sand (foram)	massive	BI 2		silty mud - foram present			

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
--0--							Same as above		
--10--							shell fragments		
--20--							gradational		
26									
--30--	10Y 4/1	clay	m. sand (foram)	massive	B1 3		mud - foram present		
--33--							33 } shell fragments		
--40--							38 -41, foram patch		
--50--									
--60--									
--70--							-72, shell fragments		
--80--							-79, shell fragments		
--90--									
--100--									
--110--							-106, foram patch -108, Py burrow		
--120--							-124 -125  Pyrite? burrow white particle filled burrow. (forams?)		
--130--									
--140--							-137, foram patch		
--150--							-143, shell fragment		

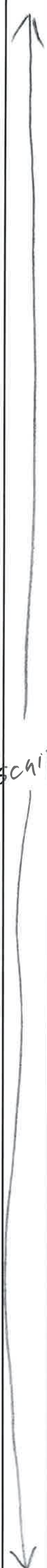
MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 -- 43				gradational / contact					
-- 50 --	10Y 4/1	silt	ln sand (foram)	massive	BI 3	49 55	Silty mud - foram present 44-45 P. burrows shell fragments		88 Calcareous silt/mud
-- 60 --							69, shell fragment		
-- 70 --	biscuit						73, shell fragments		
-- 80 --							83		
-- 90 --							92, shell fragments		
-- 100 --									
-- 110 -- 114				gradational / contact					
-- 120 --	10Y 4/1	clay	ln sand (foram)	massive	BI 3		mud - foram present 115-118, shell fragments 123 P. burrows shell fragments		
-- 130 --							133		
-- 140 --							140, shell fragment?		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/2/24
			Avg.	Max.						
-- 0 --										Same as above
-- 10 --										-19, P, burrow
-- 20 --										
-- 30 --										-32, P, burrow
-- 40 --										
-- 50 --										-50, P, burrow
-- 60 --										-58, P, burrows
-- 70 --										-71, shell fragments -73, shell fragments
-- 80 --										
-- 90 --										
-- 100 --										-104, foram patch
-- 110 --										
-- 120 --										-125, shell fragment
-- 130 --										-139, shell fragment
-- 140 --										-139, shell fragments -142, shell fragments
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
			Avg.	Max.						
-- 0 --	↑ ↓ 59									Same as above
-- 10 --										12, P ₁ burrow
-- 20 --										15, P ₁ burrow
-- 30 --										25, P ₁ burrow
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 12/24
		Avg.	Max.						
-- 0 --							<u>Same as above</u>		
-- 10 --									
-- 20 --									
-- 30 --									
37									
-- 40 --									
43									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	24/12/11
-- 0 --									
	OLEY				3				
-- 10 --	10Y 4/1				↓				
-- 20 --	↓	clay	m.s.				① <u>nod</u>		
-- 30 --							few small shell frags all along the section		
-- 40 --									
-- 50 --									
-- 60 --	BISCUIT			grad. contact				56	
-- 70 --							② <u>stony nod</u>		
-- 80 --	SLIGHTLY	clay	m.s.						
-- 90 --									
-- 100 --									
-- 110 --				grad. contact				110	
-- 120 --		clay	m.s.				③ <u>nod</u>		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
			Avg.	Max.						
-- 0 --		grey				3				
-- 10 --		grey ↓				↓				
-- 20 --			clay	m.s.				① mud		
-- 30 --								small shell frags all along the section		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

SLIGHTLY BISCUIT

-45: shell frags

-63: py. grains.

-99: py. grain

-102: py. grain

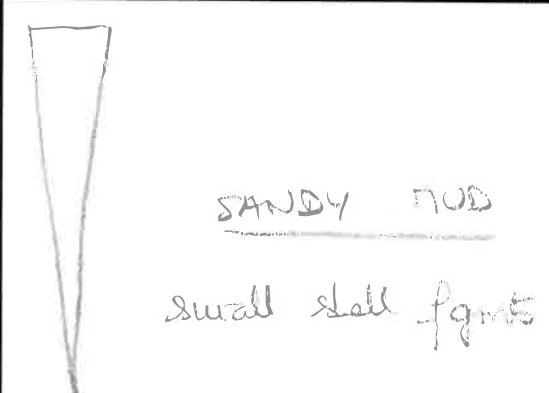
MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
		Avg.	Max.						
-- 0 --									
-- 10 --	grey 10Y 4/2 ↓		clay m.s.		3 ↓				
-- 20 --							① <u>MUD</u>		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --	BISCUIT			grad. contact					
-- 90 --			clay m.s.	mottled			② <u>SILTY MUD</u>		
-- 100 --				biot. contact					
-- 110 --									
-- 120 --			silt m.s.	mottled		SS - 117 cm	silty Mud w/ BioCarb		
-- 130 --							<u>SANDY MUD</u> small shell frags		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	24/12/11
--0--	grey 104								
--10--	4/2 ↓	silt	m.s.	wetted	3 ↓				
--20--									
				biot. contact					
--30--									
--40--							40: shell frags		
--50--		clay	m.s.				① MUD		
--60--							60: shell frags		
							57-73 cm: more greenish		
--70--									
--80--									
				grad. contact					
--90--		clay	m.s.				② SILTY MUD		
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

BISCUIT

← more greenish →
57
53



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--										
--10--		CLE41 107 4/2							ED	24/12/11
--20--	BISCUIT		silt	m.s.	mottled	3 ↓		SANDY MUD small shell frags		
--30--										
--40--						bid. contact		42-60cm: more granitic		
--50--			more greenish	clay	m.s.			① MUD		
--60--			clay	m.s.	grad. contact mottled			② SILTY MUD		
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
		Avg.	Max.						
--0--	GLEYS 104 4/2 more silty	silt	m.s.	wetted	↳		SANDY MUD		
--10--		clay	m.s.	wetted	↕	6	② SILTY MUD		
--20--		silt	m.s.	wetted		15	SANDY MUD		
--30--		silt	m.s.	wetted		21	③ SILTY SAND		
--40--							0-16 cm: more greenish		
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
		Avg.	Max.						
0	grey								
10	grey 4/2 ↓	clay	m.s.		↓		① QUD		
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120				biot. contact					
121							sand-filled burrows		
125									
130		clay	m.s.	mottled				② SILTY QUD	
140									
145				biot. contact					
150		clay	m.s.				① QUD		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	24/12/11
--0--	grey 10Y 4/2				3				
--10--	↓	clay	m.s.		↓		① mud		
--20--				gradat. contact					
		clay	m.s.	mottled		22 SS	Mud w/ Bio Carb ② SILTY mud		
--30--				biot. contact					
--40--									
--50--									
--60--		silt	m.s.	mottled			SANDY mud small shell frags		
--70--									
--80--									
--90--									
--97--				grad. & biot. contact					
--100--									
--110--									
--120--		clay	m.s.				② SILTY mud (very muddy)		
--130--									
--140--									
--150--									

BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	24/12/11
--0--										
		BLEY1 104 4/1 ↓	clay	m.s.	wotted	3 ↓		(2) <u>SILTY MUD</u>		
--20--										
--30--					biot. contact		32			
--40--										
--50--			clay	m.s.				(1) <u>MUD</u>		
--60--							60: py. grain			
--70--					biot. contact		66			
--80--	BISCUIT		clay	m.s.	wotted			(2) <u>SILTY MUD</u> small shell frags		
--90--								91: gastropod shell frag		
--100--					gradat. contact		101			
--110--										
--120--			silt	m.s.	wotted			118: shell frag (bivalve) <u>SANDY MUD</u> small shell frags		
--130--										
--140--										
							133 SS	Sandy Mud w/B.C.		
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	24/12/11
-- 0 --		clay	m.s.	sharp contact	3 ↓		SANDY MUD		
	CLAY 10Y 4/2 ↓						coarsening up		
-- 10 --									
-- 20 --									
-- 30 --		clay	m.s.						
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --		silt	m.s.	biot. contact					
-- 150 --		clay	m.s.	sharper biot. contact					

BISCUIT



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
-- 0 --								slightly red & ^{gray} mud		
-- 10 --		N 4/1			shell ⬇					
-- 20 --							20	gradual		
-- 30 --								slightly green slightly mud w/ forams more forams		
-- 40 --								↓ continues down core		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --	Biscuited	10Y 4/1								
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

151
 MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
		Avg.	Max.						
-- 0 --							Continues from above		
-- 10 --	10Y 4/1						dark green mud w/ forams		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 65 --									
-- 70 --					shell in void				
-- 75 --									
-- 80 --									
-- 85 --									
-- 90 --									
-- 95 --									
-- 100 --							Continues to cc		
-- 102 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-33X-CC-A
 SHLF3571741



Depth (cm)	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									RF	12/24/11
-- 10 --		10Y 4/1						Continues from above dk greenish gray mud with some forams		
-- 20 --										
-- 30 --										
-- 38 --										
-- 40 --										
-- 44 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		grey 10Y 4/1 ↓	clay	m.s.	mottled	3 ↓		(2) <u>SILTY mud</u>		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
		Avg.	Max.						
	GLYH 10Y 4/1s ↓	clay	m.s.	wolled	3 ↓		② <u>SILTY</u> <u>NO</u> small shell frags		
				grad. contact					
		clay	m.s.				① <u>NO</u>		
	BISCUIT								
							101: shell frags		
							129: py grain		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
		Avg.	Max.						
-- 0 --									
	grey 10y 4/1	clay	m.s.		3 ↓				
-- 10 --									
-- 20 --							① 90D		
-- 30 --									
-- 40 --									
-- 50 --							-s2: shell frags		
-- 60 --							-G1: py. shell fragmt?		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	24/12/11
-- 0 --										
-- 10 --		grey 4/1	clay	m.s.		3 ↓				
-- 20 --								① <u>ND</u>		
								very few small shell frags		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

339-U1389A-34X-5-A_SHLF3572221_20111224150539_.tif
 Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		CLAY 10Y 4/1				3 ↓				
-- 20 --		↓						19/20 : shell frags		
-- 30 --			clay	m.s.				① NUD very few shell frags		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --							129 SS	Calcareous Mud		
-- 140 --					grad. contact			142		
-- 150 --			clay	m.s.	weather				② SILTY NUD	

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	24/12/11
-- 0 --									
	OLEY1 104 412				3 ↓		② SILTY MUD small shell frags		
-- 10 --		clay	m.s.	walled					
-- 20 --				grad. contact					
-- 30 --		clay	m.s.	walled			SANDY MUD		
-- 40 --				sharp contact			37cm calcareous SANDY MUD w/ Bio Carb (plenty opaques) small shell frags		
-- 50 --									
-- 60 --									
-- 70 --		clay	m.s.				④ MUD		
-- 80 --									
-- 90 --									
-- 100 --				grad. contact					
		clay	m.s.	walled			② SILTY MUD		
-- 110 --				grad. contact					
-- 120 --									
-- 130 --		clay	m.s.				① MUD		
-- 140 --									
-- 150 --									

BISCUIT

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 24/12/11
			Avg.	Max.						
-- 0 --										
		CLAY								
-- 10 --		10Y 4/2								
-- 20 --		↓	clay	m.s.		2 ↓		① NUD		
								-25: crack very few small shell frags		
-- 30 --										
-- 40 --								-28: crack		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 26/12/11
			Avg.	Max.						
-- 0 --										
-- 10 --		grey 104 4/2 ↓	clay	m.s.		?				
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					RF	12/2/11
--0--									
--10--	10Y 4/1	mud	mud	← PB ← PB					
--20--					(2)				
--30--									
--40--									
--50--				← PB ← PB					
--60--									
--70--									
--80--	BISCUITED				(2)				
--90--									
--100--				← 0			101-102 burrow w/ silty mud fill 103 iridescent shell fragment <i>iridescent</i>		
--110--				burrow w/ black sand			bioturbated base 11'6 contact (gradual) silty mud w/ carbonate (shell), bioturbated		
--120--	10Y 4/1	smud	silt				122 sandy mud w/ carbonate (shell), bioturbated, biscuit		
--130--		smud	fsand		(2)				
--140--	10Y 4/1						sharp w/ burrows in lower unit 133 silty mud w/ carbonate, biot., some coarser sand in burrow fill (biscuit Sep. coarser than biscuits)		
--150--	10Y 4/1								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
-- 0 --		10Y 5/1		silt		2	51 SS	Silty mud w forams		5 Silty Mud w/ Bio Carb
-- 10 --								10 bioturbated		19
-- 20 --		10Y 4/1					19 SS	Sandy mud with some muddy parts, likely burrow fill		Calcareous Sandy Mud
-- 30 --					more shell here	2		36 bioturbated		35 Calcareous Silty Sand (dolomite)
-- 40 --		10Y 5/1				2	42 SS	Silty sand, lighter color, burrows? full w/ coars or shell @ 36		42 Calcareous Sandy Mud (dolomite)
-- 50 --		10Y 4/1				2	49 SS	sandy mud		49 Silty Sand w/ Bio Carb (dolomite)
-- 60 --						2	71 SS	Mud with burrows + sand fill till 73cm		59 Mud w/ Bio Carb
-- 70 --		10Y 4/1			burrows w/ black sand fill		72 SS			72 Mud w/ Bio Carb
-- 80 --	biscuit									
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --		10Y 4/1						↓ continues to next section		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
		Avg.	Max.						
-- 0 --							2 mud from above Silty mud		
-- 10 --	10Y 4/1								
-- 20 --	10Y 4/1	f sand	f sand	fg burrow fill	2		18 sandy mud w/some shell		
-- 30 --	10Y 5/1	m sand	m sand				24 Silty sand (not wet) w/shell, esp layer @ 27-30 hard to see structures This unit had an odor when split, & a head-space sample was taken		
-- 40 --					2				
-- 50 --							52 sharp mud w/rare forams		
-- 60 --							occ shell pcs.		
-- 70 --									
-- 80 --	10Y 4/1								
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --	10Y 4/1								
-- 140 --									
-- 150 --									

Bisequited

↓ continues

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
-- 0 --		10Y 4/1	mud					mud w/rare forams bioturbated		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --	discussed				hard 0.6m					
-- 100 --		10Y 4/1								
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --		140						140 ↓ continues		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
-- 0 --								Cont. from above mud w/ rare forams, bioturbated, some shell		
-- 10 --		10Y 4/1				2				
-- 20 --										
-- 30 --										
-- 40 --					shell					
-- 50 --										
-- 60 --					shell					
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --						2				
-- 120 --					shell frags					
-- 130 --		10Y 4/1								
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					RF	12/24/11
--0--			mud	silt				mud		
					grad. contact			5		
--10--		10Y 4/1	mud	silt		2		silty mud		
--20--					shell w/ pyrite & grain grad. contact			23		
			silt	f sand				Sandy mud		
--30--										
--40--										
	Biscuited	10Y 4/1				2				
--50--										
--60--										
--70--		68								↓ continues to cc
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								f.	12/24
0--	falling.						6-12 v f sd.		
6	5GY	v f sd	csd						
10	4/1						12-14g mud.		
12				erosional base.			Scattered pyrite grains.		
							slightly bioturbated.		
20--									
30--									
40--									
50--									
60--									
70--	5GY								
	5/1								
80--									
90--									
100--									
110--									
120--									
130--									
140--									
150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
0-13		clay	silt		3		0-13. silty mud.	f.	12/24
13-94.5		vfsd	csd.	upper firming			13-94.5. vf sd. Scattered shell fragments		
	5GY 4/1				2				
94.5-150									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									f.	12/24
	undisturbed.	SGY	vfsd	csd.				0-17. v f s d.		
-- 10 --		4/1								
17'										
		10Y	vfsd	msd.	bioturbated contact			17-23 Salty sand		
-- 20 --		5/1						whity.		
28'								Strongly alcholic smell or gas.		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
		Avg.	Max.						
-- 0 --									
-- 10 --	10Y 4/1	mud	mud	PB PB	2		mud with rare forams, continues onto section 2		
-- 20 --				PB					
-- 30 --									
-- 40 --									
-- 50 --				shell					
-- 60 --									
-- 70 --									
-- 80 --					2				
-- 90 --	10Y 4/1								
-- 100 --									
-- 110 --				black borrow fill					
-- 120 --				black borrow fill					
-- 130 --					2				
-- 140 --	10Y 4/1								
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --									
-- 10 --					2		mud w/rare forams, bioturbated		
-- 20 --	10Y 4/1	mud	silt						
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --					2				
-- 80 --									
-- 90 --									
-- 100 --	10Y 4/1								
-- 110 --		silt mud	silt				108 — gradational contact silty mud, details of structure obscured by biscuiting, some bioturbation.		
-- 120 --					2				
-- 130 --		f sand	m sand				128 sharp muddy sand, details obsc. by biscuiting.		
-- 140 --	10Y 4/1				1				
-- 140 --				shell			138 gradational silty sand, details obsc by biscuiting		
-- 140 --	10Y 4/1	f sand	m sand						
-- 150 --	15D						continues on to next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					RF	12/24/11
-- 0 --		10Y 4/1	mud	silt				mud continues from above, some burrows filled w/ underlying material at base		
-- 10 --		10Y 4/1	silty mud	silt				10 gradational contact silty mud w some shell		
-- 20 --			f sand	m sand				16 gradational contact sandy mud w/ occasional shell. some burrow fills of different color, esp lighter sand @ 137 & 141. mud lams. maybe biscuits. uniform in grain size		
-- 30 --	BISCUITED	10Y 4/1			o shell silty sand strings					
-- 40 --										
-- 50 --								↓ to CC		
-- 54 --		54								
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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 2011-12-24 19:04:57
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Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--	Disturbed / CC	10Y 4/1	f sand	m sand				Sandy mud (from above) w/shell frags.	RF	12/24/11
--10--		10Y 5/1	f sand	m sand				12 gradational contact silty sand - lighter color, uniform in grain size		
--20--		10Y 4/1	f sand	m sand				19 disturbed contact Sandy mud		
--25--								25 end of core		
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/29/2011
		Avg.	Max.						
--0--							mud with rare forams.		
--10--	10Y 4/1				3				
--20--									
--30--									
--40--									
--50--									
--60--									
--70--				PB					
--80--									
--90--	10Y 4/1	silty mud	silt		3		87 bioturbated contact silty mud		
--100--	Biscuiter				2		98 ? bioturbated contact muddy sand		
--110--	10Y 4/1	f sand	f sand						
--120--	5GY 5/1						120 sharp contact w/ bioturbation still evident		
--130--				burrow w/ sand	3		mud w/ rare forams		
--140--		mud	silt						↓ continues
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
-- 0 --		5GY 5/1	mud	silt		3		mud w/ rare forams, little structure, occ. burrow fills w/ Iron sulfides		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --	Biscuited					3		90 diffuse boundary at a color change as above, but less green & more red		
-- 110 --			mud	silt						
-- 120 --		10Y 4/1								
-- 130 --										
-- 140 --		4/1						↓ continues		
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								from above		
-- 10 --		10Y 4/1	mud	silt		3				
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --		56Y 5/1						→ 10 diffuse boundary from redder above to greener below at same mud, just slight color change.		
-- 120 --			mud	silt		3				
-- 130 --										
-- 140 --										
-- 150 --										

Disrupted.

→ 10 diffuse boundary from redder above to greener below
~~at~~ same mud, just slight color change.

— 131 continues next sheet

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RF	Date: 12/24/11
			Avg.	Max.						
--0--		5GY 4/1	mud	silt		3		mud w/ rare forams (as above)		
--10--					PB			Some shell & pyritized burrows		
--20--					PB shell					
--30--										
--40--					PB					
--50--								48 gradual transition between two colors of same mud.		
--60--		10Y 4/1						mud w/ rare forams.		
--70--		68				3		5 ↓ continues		
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	DISTURBED	104	mud	silt		3			RF	12/24/11
-- 10 --		4/1						continuous from above mud w/rare forams		
-- 20 --		19						19 end core		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

bioturbated contact.

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0		10Y 5/1						f.	12/24	
0-2	Scapy.						2. 0-2 mud.			
10		10Y 7/1	vfsd	msd.			2-12 silty sandy, vfsd ab. ty. gas smell occurred			
12										
20					oxidized hole.		12-94 mud.			
30							Scattered pyrite grain. slightly bioturbated.			
40		10Y 4.5/1	day	msd.		3				
50										
60	Biocomb.									
70										
80										
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

20111224 10:00:00



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			clay	m sd.				0-31	f.	12/24
-- 10 --					massive	3				
-- 20 --	B. pea	100%								
-- 30 --										
35										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY: