			SIT	E 1022	HC	<u>LE</u>	A COR	<u>E</u>	1H		CORED 0.0 - 4.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
f	- WWW.		1		1	-late Pliocene	99999	00 /	s s	5Y 4/2 5Y 5/1	CLAY WITH DIATOMS, SILT, AND GLAUCONITE SAND and CLAY DIATOM MIXED SEDIMENT WITH SILT  Major Lithologies: This core consists olive gray (5Y 4/2 to 5Y 5/2) to gray (5Y 5/1) CLAY DIATOM MIXED SEDIMENT WITH SILT and CLAY WITH DIATOMS, SILT, AND GLAUCONITE SAND. A 2-
}			3			Quaternary	» «		I	5Y 5/2	cm diameter wood fragment is present near the base of Section 2. White sponge fragments are present throughout the core.  Minor Lithology: Burrows are filled with greenish black
}		\{ \{ \}	4	, vy	3 CC				S M	5Y 4/2	QUARTZ GLAUCONITE SILTY SAND to produced abundant coarse-grained pods in Section 1.
1 1.5	5 10 -10	00 0 10	00								General Description: The core is heavily bioturbated at the top with 1-2 cm diameter, sand and glauconite-filled and open burrows.



SITE 1022 HOLE A CORE 2H  GRAPE Reflectance Magnetic graphic g	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Description
FO NA  Ma Thi Sign Sign The state of the sta	AY WITH DIATOMS, DRAMINIFERS, AND/OR ANNOFOSSILS  ajor Lithology: is core consists of olive gray (5Y 2) CLAY WITH DIATOMS, DRAMINIFERS, AND/OR ANNOFOSSILS. Small wood ingments and sponges are stributed throughout the core. A rigle silty lamination occurs in Section eneral Description: is sediment is homogeneous to obderately bioturbated, with nondrites trace fossils in Section 1.

			SIT	E 1022	НО	LE	A COR		3Н		CORED 14.0 - 23.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
					2		*****	M	Ø	5Y 5/2	DIATOM OOZE WITH CLAY AND SILT and NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS  Major Lithologies: This core consists of olive gray (5Y 5/2) DIATOM OOZE WITH CLAY AND SILT, interbedded with gray (5Y 5/1) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS. Thin beds of the second lithology in Sections 1 and 3 are shown in the Structure column.  Minor Lithology: Two thin beds of fine-grained pale yellow (5Y 7/3) sediment in the lower half of Section 4 are composed of BARITE WITH DIATOMS AND CLAY.
			J			ate Pliocene	**************************************		I S	5Y 5/1	General Description: The sediments are slightly to heavily bioturbated. Chondrites trace fossils are present, as is a 20-cm long, 1-cm diameter vertical burrow, lined with
- Menoration	- MMM-MM-MM-MM-MM-MM-MM-MM-MM-MM-MM-MM-M		2		5 6	late l	Ba Ba Ba		SD	5Y 5/2	dark green CLAY near the top of Section 6.

GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		}			1			/// // -	0,	5Y 4/1	CLAY WITH DIATOMS, DOLOMITE AND NANNOFOSSILS, DIATOM CLAY WITH SILT and CLAY WITH FORAMINIFERS AND DIATOMS
			2				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			5Y 5/1	Major Lithologies: This core consists of dark gray (5Y 4 to olive gray (5Y 4/2) DIATOM CLAY WITH SILT and CLAY WITH FORAMINIFERS AND DIATOMS.
		}			2		<u></u>		S	5Y 5/2	Thick beds of gray (5Y 5/1) CLAY WITH DIATOMS, DOLOMITE AND NANNOFOSSILS surround a bed of dolomite (described below). Most co
			4		3	te Pliocene	   & 		S	5Y 5/1	and compositional changes are gradual and indistinct. A 2-cm diame fragment of wood is present near the base of Section 3.  Minor Lithology: A 70-cm thick bed of olive gray (5Y 5/2) DOLOMITE WITH DIATOMS occurs in Section 2.
			5	**************************************	4	Quaternary -late	<b>&gt;</b>		S		General Description: The sediments are mostly homogeneous to slightly bioturbated and they emit a strong, sulfurous ode
~~~~~		}	7		5		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			5Y 4/1	
<b>*</b>	}	{	8 - -		6		_				
	}	{	9 -		0					5Y 5/1	
}	}	}			7			 	S	5Y 4/2	

			SIT	E 1022	НО	LE	A COR		5H		CORED 33.0 - 42.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	╻	Sample	Color	Description
M./m.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2		1 2		**	00%		5Y 4/1	DIATOM CLAY MIXED SEDIMENT WITH SILT and DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS AND SILT  Major Lithologies: This core consists of dark gray (5Y 4/1) to gray (5Y 5/1) DIATOM CLAY MIXED SEDIMENT WITH SILT and greenish gray (5GY 5/2) DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS AND SILT. Fragments of wood and sponges are distributed throughout the
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	J. W. J. W. W. W. J. W.		4		3	late Pliocene	» ** » ** » ** » **		S	5Y 5/1	core.  General Description: The sediments are mostly homogeneous to slightly bioturbated, however, Section 6 is heavily burrowed.
			6		5				S	5GY 5/2	
	- WWwwwww				6 7 CC		— ****		M	5Y 5/1	

			SIT	E 1022	HO	LE	A COR	Ε (	6H		CORED 42.5 - 52.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2		1			M00 M	S	5Y 4/1	DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS  Major Lithologies: This core consists of dark gray (5Y 4/1) to gray (5Y 5/1) DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT to gray (5Y 6/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Small fragments of
		}	3_							5Y 5/1	sponges are sparsely distributed through the core.  General Description:
	3	}	-							5Y 4/1	The sediments are mostly homogeneous. Sections 3 and 4
}		{	4		3		}}	1		5Y 5/1	display moderate to heavy bioturbation, including Chondrites.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5		4	late Pliocene	<b>-</b> * 6		S	5Y 6/1	
			7		5 6		***************************************			5Y 5/1	
1.5 1.75	5 10 0	) 10 2	20		СС			1	М	5Y 6/1	
1.70	- 10	. 10 2									

			SIT	E 1022	НО	LE	A COR				CORED 52.0 - 61.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		2 3			M	S	10Y 5/1	NANNOFOSSIL OOZE WITH DOLOMITE, CLAY, AND/OR DIATOMS and CLAY WITH SILT Major Lithologies: This core consists of light grayish olive (10Y 5/1) NANNOFOSSIL OOZE WITH DOLOMITE, CLAY, AND/OR DIATOMS and dark greenish gray (5GY 4/1) to greenish gray (5G 5/1) CLAY WITH SILT. Two wood fragments are present in Section 4. Minor Lithology: A thin, bioturbated bed of very fine, dark gray (5Y 4/1) SAND is present near the base of Section 4. Just below, near the top of Section 5, tiny, mmscale pods of SAND are also present.
	<b>*</b>		5		4	late Pliocene	<i>\$</i> <i>\$</i> ₩			10Y 4/1	General Description: The sediments are mostly homogeneous in the upper part and slightly bioturbated in the lower half.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			6 - - 7		5		<b>-</b>		S	5GY 4/1	
}		{	8						s	10Y 5/1	
1.5 1.75	0 10 0	}	9 -		6 7 <u>CC</u>		***		М	5G 5/1	

			SIT	E 1022	НО	LE	A COR	Εį	3H		CORED 61.5 - 71.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3, 3, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		3	late Pliocene	***************************************		s s	10Y 5/2	CLAY WITH DIATOMS, NANNOFOSSILS, AND SILT, DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT and NANNOFOSSIL OOZE WITH DIATOMS AND CLAY Major Lithologies: This core consists of light grayish olive (10Y 5/2) CLAY WITH DIATOMS, NANNOFOSSILS, AND SILT, and DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT, and pale olive (10Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS AND CLAY. Color changes are subtle and gradational. General Description: The sediment is slightly mottled and moderately to heavily bioturbated.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7		5		***************************************		S	10Y 6/2	
1 1.5 1	0 12.5	0 10	9 10		6 7 CC		**************************************		M	10Y 5/2	

			SIT	E 1022	НО	LE	A COR		9H		CORED 71.0 - 80.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		**************************************	WWW	S	5Y 5/3	CLAY WITH DIATOMS, SILT, AND NANNOFOSSILS and CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core consists of olive to olive gray (5Y 5/3 to 5Y 5/2) CLAY WITH DIATOMS, SILT, AND NANNOFOSSILS and pale olive (10Y
			3 -		3		**************************************			10Y 6/1	6/1) CLAY NANNOFOSSIL MIXED SEDIMENT. Color is slightly mottled and gradational throughout the core.  Minor Lithologies: A thin layer of SILT occurs near the top of Section 5.  General Description: The sediment is moderately bioturbated.
			5		4	late Pliocene	**************************************		I	5Y 5/3	
			6		5		**************************************			10Y 5/1	
		}	8		6		**************************************			5Y 5/2 To 5Y 6/3	
1 1.5	5 10 0	0 20 4	9 -		7 CC		» » » » »		S M	10Y 6/1	

GRAPE Reflectance Magnetic					A COR	느	1011		CORED 80.5 - 90.0 mbsf
density (%) suscept. (9/cm <sup>3</sup> ) (450–500 nm) (10 <sup>-6</sup> SI)	<u>ē</u>	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	-		1		© *******			5Y 5/2	CLAYEY NANNOFOSSIL OOZE and CLAY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS Major Lithologies:
	2		2		A				This core consists of olive to pale olive (5Y 5/3 to 5Y 6/3) CLAY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS alternating gradationally with light olive gray (5Y 6/2) CLAYEY NANNOFOSSIL OOZE. Colors are slightly mottled throughout
	3				*** *** *** ***		S	5Y 6/2	the core. The sediment is offset by faulting in two locations, however the direction of offset could not be determined.
	4		3		® ************************************				Minor Lithologies: A gray (N6) VITRIC ASH layer occurs in Section 1, 138-140 cm. General Description:
	5_		4	late Pliocene	***		S	5Y 5/3	The sediment is moderately bioturbated.
	6_		5	lat	** <del>/</del>			5Y 6/3	
	7		6				D	5Y 6/2	
	8_				**************************************			5Y 5/2	
	9		7					5Y 6/2	
1 1.5 5 10 0 20	10		8 CC		>> >> >> >> >> >> >>		M	5Y 5/2	

			SI	ΓΕ 1022	_	LE	A COR		11H		CORED 90.0 - 99.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		(h) (h)	<b>/</b> //		5Y 5/2	CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS and NANNOFOSSIL OOZE WITH CLAY AND DIATOMS Major Lithologies: This core consists of olive to olive gray (5Y 5/3 to 5Y 5/2) CLAYEY
		*****	2		2		*** *** *** ***		s s	5Y 5/3	NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS and light clive gray (5Y 6/2) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS. Color
}	}	}	3	) <b>EE</b>			>> >> >>		S	5Y 6/2	and composition changes gradually.  Minor Lithologies:
			4		3	ocene	**************************************		S	5Y 5/2	A small pocket of SAND is found in Section 3, 94 cm. A small piece of WOOD occurs in Section 3, 116 cm.  General Description: The sediment is moderately bioturbated. Sagarites are common throughout the core.
~~~~~			5		4	late Pliocene	» » » »			5Y 5/3	
1 houmannesser	M		8		5		@@ ***********************************			5Y 5/2	
3		}			7 CC		\$\$ }}		М	5Y 6/2	

GRAPE (enruly) (gram <sup>3</sup> ) (10 <sup>-6</sup> SI) (10 <sup>-</sup>				SIT	E 1022	HO	LE	A COR	Е	12H		CORED 99.5 - 109.0 mbsf
	density	Reflectance (%) (450–500 nm)			Graphic	Section			Disturb	Sample	Color	
			~~~~~~	1		1		**************************************		S	5Y 5/2	SEDIMENT WITH DIATOMS and NANNOFOSSIL OOZE WITH CLAY Major Lithologies: This core consists of olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS
				3 - 4 - 5 - 6		3	early Pliocene -late Pliocene	**************************************			5Y 5/3	NANNOFOSSIL OOZE WITH CLAY. Changes in color and composition are gradational.  General Description: The sediment is moderately bioturbated.  Note: Expanded material from Section
				]		5		% 9 % % %			5/2	
				7								
				9				**************************************		M		
	1.5 1.75	10 12.5	0 10 2	20	v1.7.7	<del>ee</del>				I IVI		

			SIT	E 1022	НО	LE	A COR	E ·	13H		CORED 109.0 - 118.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1			<b>M</b>		5Y 6/2	NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH CLAY  Major Lithologies: This core consists of gradual changes between light olive gray to pale olive (5Y 6/2 to 10Y 6/2) NANNOFOSSIL OOZE and olive gray to light grayish olive (5Y 5/2 to 10Y 5/2) NANNOFOSSIL OOZE WITH CLAY. Color changes are subtle and slightly
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			3		3	cene	%% %% %% %% %% %% %% %% %% %% %% %% %%		S	5Y 5/2	mottled.  General Description: The sediment is heavily bioturbated throughout the core.
			5		4	early Pliocene -late Pliocene	***************************************		S	5Y 6/2	
}	}	{	7		5		*** *** *** ***				
\ \{\}		}	8 - - -		6		>>> >>> >>> >>>			10Y 5/2	
		}	9 -		7		%% %% %% %% %% %%		М	10Y 6/2	
1 1.5	5 10 (	) 20 40	↤		<u> </u>			Ш	ıVI		l

			SIT	E 1022			A COR		14H		CORED 118.5 - 128.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- W			2		1		*************************************		S	5Y 6/2	DIATOM NANNOFOSSIL OOZE WITH CLAY and NANNOFOSSIL OOZE WITH CLAY  Major Lithologies: This core consists of light olive gray (5Y 6/2) DIATOM NANNOFOSSIL  OOZE WITH CLAY and light grayish olive (10Y 5/2) NANNOFOSSIL OOZE WITH CLAY. Color changes are subtle and gradational. Sagarites are common.
			3		3	Pliocene -late Pliocene	\$			10Y 5/2	General Description: The sediment is moderately to heavily bioturbated.
}	$\left  \begin{array}{c} \\ \\ \end{array} \right $	{	6			early Plioc	% % % %			5Y 6/2	
		}	7_		5	ea	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		S	10Y 5/2	
			8		6		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5Y 6/2	
0 1.5 1	0 15 0	) 10 2	9 -		7 CC		**************************************		М	10Y 5/2	

			SIT	ΓΕ 1022		LE	A COR	E ·			CORED 128.0 - 137.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 1.5	5 10		2		1 2 2 3 3 4 4 5 5 6 6 CC	early Pilocene -late Pilocene	*** ****** ****** ***** ***** ***** ****		_	5Y 5/2 5Y 6/2	NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and NANNOFOSSIL OOZE WITH CLAY AND DIATOMS  Major Lithologies: This core consists of olive gray (5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS. Color and compositional changes are gradual and mottled. Sagarites are common throughout the core.  General Description: The sediment is moderately to heavily bioturbated in the upper part while the lower part is homogeneously bioturbated.

			SIT	E 1022	_	LE	A COR		16H		CORED 137.5 - 147.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}	}	}		300			} } }		S	5Y 4/2	DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS and CLAY
humananananananananananananananananananan			3 3		2	aarly Pliocene -late Pliocene	9 9 8***********************************			5Y 5/2	WITH SILT AND NANNOFOSSILS  Major Lithologies: This core consists of olive gray (5Y 4/2 to 5Y 5/2) CLAY WITH SILT AND NANNOFOSSILS and DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS. Color and compositional changes are subtle and gradual.  Minor Lithology: A coarser-grained, olive gray (5Y 4/2) SANDY SILT WITH CLAY bed is in Section 4.  General Description: The sediments are slightly to moderately bioturbated throughout.  Note: Expanded material from Section 5 is boxed separately.
3		}	5		4	liocene .	} } }		S	5Y 4/2	
		}	6_			early P	33 33 33 34 34		S	5Y 5/2	
3	$\left  \left\{ \right. \right. \right $	}	7		5		3			5Y 4/2	
\$	}	}					} }			5Y 5/2	
MV/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5 10 11	0 20 3	9 -		6 7 CC		***************************************		M	5Y 4/2	

GRAPE							A COR				CORED 147.0 - 156.5 mbsf
density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		{	-	**************************************	1			~~~~-		5Y 4/1	DIATOM CLAY MIXED SEDIMENT and DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		}			_		}			10Y 4/1	Major Lithologies: This core consists of subtle and gradual alternations between dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOM CLAY MIXED SEDIMENT and gray
}		}	3		2		}		S	5Y 4/2	(5Y 5/1) DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS. Small fragments of wood are present in Sections 3 and 6.
{		{	3	````\ _{```\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					5		Minor Lithology: Small, mm- to cm-scale pods of very light gray (N7) SAND are distributed
{	}	}	4		3	ne	Ø		1	5Y 5/1	throughout the core.  General Description:
}		}		7		early Pliocene -late Pliocene			s	5Y 4/2	The sediments are mostly homogeneous and only rarely display distinct burrows, which are mostly indicated by the sandy pods.
}		}	5		4	Pliocene -	}		5	5Y 5/1	
}		}	6	****		early				5Y 4/2	
{		{	7	**** ******	5					5Y	
1		}	-	] J. v.			>	l		5/2	_
		***	8 -		6		} } \$		S	5Y 4/1	
	5 10 0	(	10	**************************************	СС			}	М		

		SIT	E 1022	<u>HO</u>	LE	A COR	E	18H		CORED 156.5 - 166.0 mbsf
density (%) s	Magnetic suscept. 10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	V			2	e -late Pliocene	<i>\$</i> *	MMM	S -	5Y 4/1	NANNOFOSSIL OOZE WITH CLAY AND DIATOMS, DIATOM NANNOFOSSIL OOZE WITH CLAY and CLAY WITH DIATOMS  Major Lithologies: This core consists of dark gray (5Y 4/1) to gray (5Y 5/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS to DIATOM NANNOFOSSIL OOZE WITH CLAY, and dark olive gray CLAY WITH DIATOMS. Fragments of sponges and wood, and mm-scale sand pods are distributed throughout the sediment. Color transitions are subtle and gradual.
		-	-{v} -{v} -{v}v}	3	liocene		\ \ \ \	s	5Y 3/2	General Description: The sediments are mostly
		5		4	early Pliocene -late			S	5Y 4/2	homogeneous with only slight visible bioturbation in Section 2. Note: Liner shattered and patched for Sections 3 and 4.
0 1 5 10 0	 50 10	6		5 CC		_		М	5Y 5/1	

			SIT	E 1022		LE	B COR	_			CORED 0.0 - 6.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		>	milion		1		*******	WW 00		5Y 4/1	CLAY WITH SILT AND GLAUCONITE, CLAY WITH DIATOMS AND SILT and GLAUCONITE SAND WITH PYRITE AND SILT
			1					WWWWWWWW		10Y 5/1	Major Lithologies: The upper part of the core consists of dark gray (5Y 4/1) GLAUCONITE LSAND WITH PYRITE AND SILT which
1		}	2			Ŋ	~~~~~	\ \ \			is bioturbated down and fills underlying
		}	3		2	Pliocene -Quaternary	99	wwwwwww	s s	5Y 5/1	burrows with gray (5Y 5/1) CLAY WITH SILT AND GLAUCONITE and olive gray (5Y 4/2) CLAY WITH DIATOMS AND SILT. A few pieces of sponge and a fragment of wood are distributed
			4		3	late Pliocene	@ 	WWWWWW	5		General Description: The core is slightly to moderately bioturbated and highly disturbed along its entire length.
			5	***************************************	4		~~ @	WWWWWWWW		5Y 4/2	
1.6 1.8	5 10 0	50 10	6 <u> </u>		CC		— <u>}</u>	MMMM	S <sub>M</sub>		

			SIT	E 1022		LE	B COR	<u>E</u> 2	2H		CORED 6.2 - 15.7 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		} } } }	wwwwww		10Y 5/1	CLAY WITH NANNOFOSSILS AND DIATOMS and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS
		}	2		2		}	\W\		5Y 4/1	Major Lithologies: This core consists of dark gray (5Y 4/1) to olive gray (5Y 5/2) CLAY WITH NANNOFOSSILS AND DIATOMS to CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Small, mm-scale pieces of sponges are distributed throughout.
		}	3		3		3 3 3 3 4			5Y 5/2	Minor Lithology: Scattered laminations, small lenses and tiny pods of SILT WITH CLAY AND FORAMINFERS are present throughout the core. General Description:
		}	5			Pliocene	- *		S	5Y 4/1	The core is mostly homogeneous with slight bioturbation visible in some sections. The core is badly disturbed by flow-in in Section 1.
}					4	late F	- -		S	5GY 4/1	
			6		5		} } }		S	5Y 4/1	
			8		6		} }				
1		{	]   -		7		,			5Y 5/1	
	\	,	10	<u> </u>	CC			≥	М	5Y 4/2	

			SIT	E 1022	НО	LE	ВС	OR				CORED 15.7 - 25.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Struct	ure	Disturb	Sample	Color	Description
}		{							wwooooo		5Y 4/1	DIATOM CLAY WITH SILT, NANNOFOSSIL DIATOM OOZE WITH DOLOMITE AND CLAY and
<b> </b>	}	}	1_	,	1				- \\\		10Y 4/1	NANNOFOSSIL OOZE WITH CLAY AND DIATOMS
}	\ \{\ \	}	2	(VV)			— ※	6			5Y 4/1	Major Lithologies: This core consists primarily of dark gray (5Y 4/1) DIATOM CLAY WITH SILT, grayish olive (10Y 4/1) to light
		{			2		*** *** *** ***	6		S	5Y 5/1	grayish olive (10Y 5/1) NANNOFOSSIL DIATOM OOZE WITH DOLOMITE AND CLAY, and gray (5Y
	}	{	3_	,			333	6				5/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS. A piece of wood is present at the top of Section 5.
}		}	4_	,	3							Minor Lithology: Two layers of pale olive (5Y 6/3) to pale yellow (5Y 7/3) BARITE WITH
	$\left  \begin{array}{c} \lambda \\ \lambda \end{array} \right $	{				Pliocene	<b>3</b>	Do		S		CLAY occur in Section 4.  General Description: The sediments are homogeneous to
	}	}	5		4	late Pli	— <u>}</u>	Ba Ba		J	5Y	heavily burrowed. Chondrites are present in Section 2. The core is highly disturbed in the upper section and
		}	6				3	Ø			4/1	there is an unspecified 3-cm thick dark band cutting obliquely across the core in Section 5.
}		}	-	**************************************	5		** ** ** ** **			S		
}		}	-				33 3 3					
{		}	8_	, , , , , , , , , , , , , , , , , , ,	6		}					
		{						/	1		5Y 5/1	
\_\_\_	$\left  \begin{array}{c} \\ \\ \end{array} \right $	{	9		7			_		S	10Y 5/1	
	5 10 0	) 20 4	10		CC		}	$\angle$	i	М		

			SIT	E 1022		LE	B COR				CORED 25.2 - 34.7 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		1		~~~~	0		10Y 4/1	DIATOM CLAY WITH SILT, CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and CLAY WITH SILT AND DIATOMS  Major Lithologies: This core consists primarily of dark gray (5Y 4/1) to grayish olive (10Y 4/1) DIATOM CLAY WITH SILT and greenish gray (5GY 5/1) CLAY WITH SILT AND DIATOMS, interbedded
		}	3		3		}		S	5Y 4/1	with gray (5Y 5/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Mm-scale fragments of siliceous sponges are scattered throughout. Sandy silty pods and patches are distributed through parts of Sections 2 and 6.
>	\ \ \ \	}	4				}} }}		S	5Y 5/1	General Description: This core is homogeneous or slightly to moderately burrowed. Several
	}	}	5_		4	ate Pliocene	}			5Y 4/1	unidentified irregular bands in Sections 1 and 4 are likely coring induced disturbance.
		}	6			late	<b>&gt;</b>			5Y 5/1	
			7		5		<b>&gt;</b>			10Y 5/1	
1.6 1.8	5 10 0	1 20 4	8 10		6 7 CC		**************************************		S	5GY 5/1	

DIATOM NANNOFOSSIL OOZE W CLAY, CLAY WITH NANNOFOSSI and DIATOM CLAY WITH SILT  Major Lithologies: This core consists of dark gray (5Y 4/1 DIATOM CLAY WITH SILT, gray (5/1) DIATOM NANNOFOSSIL OOZ WITH CLAY, and light grayish olive (10Y 5/1) CLAY WITH NANNOFOSSILS. Two thin laminations of dark brown clay are present at the top of Section 4 and lamination of very fine sand occurs the base of Section 5.  General Description: The sediments are mostly homogeneous and moderately homogeneous and moderately bioturbated in Sections 3 and 5. A f cuts the core in Section 3. Several sponge fragments and a piece of w			SIT	E 1022	HC	LE	B COR				CORED 34.7 - 44.2 mbsf
CLAY, CLAY WITH NANNOFOSSII and DIATOM CLAY WITH SILT.  Major Lithologies: This core consists of dark gray (5Y 4/1) DIATOM NANNOFOSSIL OOZ WITH CLAY, and light grayish olive (10Y 5/1) CLAY WITH NANNOFOSSILS. Two thin laminations of dark brown clay are present at the top of Section 4 and lamination of very fine sand occurs the base of Section 5.  General Description: The sediments are mostly homogeneous and moderately bioturbated in Section 3. Several bioturbated in Section 3. Several sponge fragments and a piece of w are mixed in with the sediments of the core.  Sy 5/1  S 5/1  S 5/1  S 5/1	density	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
present at the top of Section 4 and lamination of very fine sand occurs the base of Section 5.  General Description: The sediments are mostly homogeneous and moderately bioturbated in Section 3. Several sponge fragments and a piece of ware mixed in with the sediments of toore.  S  T  T  T  T  T  T  T  T  T  T  T  T	}		1				}	M			Major Lithologies: This core consists of dark gray (5Y 4/1) DIATOM CLAY WITH SILT, gray (5Y 5/1) DIATOM NANNOFOSSIL OOZE WITH CLAY, and light grayish olive (10Y 5/1) CLAY WITH NANNOFOSSILS. Two thin
S S S S S S S S S S S S S S S S S S S	\ \{\ \}	<b>}</b>	3				<b>}</b>			5Y 5/1	present at the top of Section 4 and a lamination of very fine sand occurs at the base of Section 5.  General Description:
sponge fragments and a piece of ware mixed in with the sediments of toore.    S   S   S   S   S   S   S   S   S		}	4_	**************************************	3		**				homogeneous and moderately bioturbated in Sections 3 and 5. A fault cuts the core in Section 3. Several
\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			5		4	late Pliocene	_		S		sponge fragments and a piece of wood are mixed in with the sediments of this core.
7			8 - 8 - 10		6		}				

			SIT	E 1022		LE	B COR		3H		CORED 44.2 - 53.7 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			_	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		<b>~</b> ~ ~~	0000		5Y 5/1	NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and NANNOFOSSIL DOLOMITE WITH DIATOMS Major Lithologies:
			3		3	late Pliocene	**************************************		S	10Y 5/1	This core consists of gray (5Y 5/1) to light grayish olive (10Y 5/1) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and NANNOFOSSIL DOLOMITE WITH DIATOMS. The NANNOFOSSIL DOLOMITE WITH DIATOMS. The NANNOFOSSIL DOLOMITE WITH DIATOMS is no more indurated than the clay-rich sediments. Tiny sand pods (filled burrows?) are present in Sections 2 and 5. A piece of wood is located near the top of Section 5.  Minor Lithology: A diffuse 15-cm band of light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH CLAY, DIATOMS, AND DOLOMITE is located in Section 2.  General Description: The sediment is mostly homogeneous, but slight to moderate bioturbation is
		{	6		5		φ 		S	5Y 5/1	evident adjacent to color transitions.
			8 -		6				S	10Y 5/1	

			SIT	E 1022		LE	B COR				CORED 53.7 - 63.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		1		****	000 MMM		10Y 5/1	NANNOFOSSIL DOLOMITE WITH DIATOMS, CLAY WITH SILT AND NANNOFOSSILS and CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core consists of light grayish olive (10Y 5/1) NANNOFOSSIL DOLOMITE WITH DIATOMS, dark gray to gray (5Y 4/1 to 5Y 5/1) CLAY WITH SILT AND NANNOFOSSILS, and gray (5Y 6/1) CLAY NANNOFOSSIL MIXED SEDIMENT. Color changes are
	}		3				— } &		S	10Y 4/1	gradual. Sponge fragments are scattered through the lower part of the core.  Minor Lithologies:
}		{	4		3		,,		S	5Y 5/1	Section 2, 144 cm, contains a thin bed of very fine PYRITE SILT.
<b> </b>		{	5_			Pliocene	» » 6		S	5Y 6/1	General Description: The sediment shows only slight bioturbation or is homogeneously bioturbated.
}			6		4	late	}			5Y 5/1	
{		{	-	4	5		» } }	ļ			
		{	7				***************************************			5Y 5/2	
}		}	8		6		~~~ —			5Y 5/1	
}		{	0)		7 CC		Ø			5GY 5/1	
1 1.5	<u> </u>	) 20 4	10 10	J	٣Ч			_>	l M		l

			SIT	E 1022	HO	LE	B COR	Εŧ	3H		CORED 63.2 - 72.7 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
WW W			1		1		@ @ **********************************			10Y 5/2	NANNOFOSSIL OOZE WITH DIATOMS AND CLAY and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS Major Lithologies: This core consists of light grayish olive (10Y 5/2) CLAYEY NANNOFOSSIL
			3		3	late Pliocene	***************************************		S	10Y 6/2	OOZE WITH DIATOMS and pale olive (10Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS AND CLAY which contains about 8% dolomite. Color and compositional changes are gradational and subtle. Pyritized burrows are common.  General Description: The sediment is moderately bioturbated.
1.5 1.75 1	0 12.5	10 10 2	6 7 8 9 9 P		5 6 7		(A)	$\sim$	S	10Y 5/2	

			SIT	E 1022	HC	DLE	B COR	E :			CORED 72.7 - 82.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		}	1	**************************************	1		% % % % %	*****		5Y 5/3	DIATOM CLAY WITH SILT and CLAY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS  Major Lithologies: This core consists of gradual alternations between olive (5Y 5/3)
			2		2					10Y 6/1	DIATOM CLAY WITH SILT and pale olive (10Y 6/1) CLAY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS. Color changes are mottled throughout the core.  Minor Lithologies:
}		{	3_		_		\$\$ \$\$ \$\$				Section 3 contains two small pods of VOLCANIC ASH.
		}	4-	V V V V V V V V V V V V V V V V V V V	3	late Pliocene	33 A• 33 A• 33 A•		S	5Y 5/3	General Description: The sediment is moderately bioturbated.
}			5		4	late Pl	% % % % %			10Y 6/1	
		}	7	*** *** *** *** ***	5		*** *** *** *** ***			5Y 5/3	
		<b>\</b>	8		6		® <b>4 4</b> %************************************		S	10Y 6/1	
1 1.5	5 10 (	) 20 4	10 10	Marrie (Alfalfa)	CC	1	<u> </u>	_	M		

			SIT	E 1022	HC	)LE	B COR	E :	10H		CORED 82.2 - 91.7 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
A/~~~~			2		1			ww	S	5Y 6/2 To 10Y 6/1	CLAY NANNOFOSSIL MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS  Major Lithologies: This core consists of light olive gray to pale olive (5Y 6/2 to 10Y 6/1) CLAY NANNOFOSSIL MIXED SEDIMENT and olive gray to gray (5Y 5/2 to 5Y 5/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Color and compositional changes are gradational and mottled.  Minor Lithologies:
		}	4_		3		>>> >>> >>> >>>			5Y 5/2	A small pocket of SAND is found in Section 1, 100 cm.  General Description: The sediment is heavily bioturbated in
		{	5			late Pliocene			S	5Y 6/3	the upper part and moderately bioturbated in the lower part.
		}	6		4	lai	** ** ** ** ** **			5Y 6/2	
}		}	7		5					5Y 5/2	
}			-	1			**************************************			5Y 6/2	
}		}	8		6		** ** ***			5Y 5/1	
}		}	9		7 CC		>>> >>> >>> >>> >>>	-	М	5Y 5/2	
1 1.5	5 10 0	) 20 4	40	NF 1	,			ш	IVI		1

			SIT	E 1022		LE	B COR				CORED 91.7 - 101.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		***************************************	W.W		5Y 5/2	NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS  Major Lithologies: This core consists of gray to olive gray (5Y 5/1 to 5Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and light olive gray (5Y 6/2)
		}	3		2		>>> >>> >>>			5Y 6/2	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Color changes gradationally between lithologies.  Minor Lithologies: Vitric ASH is abundant in the sediment
			4		3		****			5Y 5/1	near the base of the core.  General Description: The sediment is moderately to heavily bioturbated.
1	{	}				ne	}}} }}			5Y 6/2	
1		3	5		4	late Pliocene	>>> >>>>			5Y 5/2	
<b>\</b>			6		7	late	>>> >>> >>>		S	5Y 6/2	
}			7		5		>>> >>> >>> >>>		S	5Y 5/1	
1 1.5	5 10 1.	0 20 3	9		6 7		**************************************		M	5Y 6/2	

		<u> </u>	E 1022		뜨	C COR				CORED 0.0 - 7.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
y Mary Mary		2		1					5Y 5/4 10Y 4/2 To 10Y 5/1	CLAY WITH SILT, SAND AND GLAUCONITE and CLAY WITH DIATOMS AND SILT  Major Lithologies: The upper part of the core consists of light grayish olive to grayish olive (10' 5/1 to 10Y 4/2) CLAY WITH SILT, SAND, AND GLAUCONITE.
handame -		3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		3 4 5	late Pliocene	© © ©©© © © <sub>0</sub> © ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		M	5Y 5/3 5Y 4/2 5Y 5/3 5Y 4/2 5Y 5/3	GLAUCONITE SAND WITH PYRITE is bioturbated down into CLAY WITH SILT, SAND, AND GLAUCONITE and fills burrows. Below this is olive to olive gray (5Y 5/3 to 5Y 4/2) CLAY WITH DIATOMS AND SILT.  General Description: The sediment is moderately bioturbated.

	SITE 1022		C COR				CORED 7.5 - 17.0 mbsf
GRAPE density (g/cm³) Magnetic suscept. (10 <sup>-6</sup> SI)	Graphic Lith.	Section	Structure	Disturb	Sample	Color	Description
1.5 1.75 0 20 4	2 2 3 3 4 4 7 7 7 8 8 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 2 3 — 4 5 — 6 7 CC			М	5Y 5/3 To 5/2 5/2	CLAY WITH NANNOFOSSILS AND DIATOMS and DIATOM CLAY WITH SILT  Major Lithologies: This core is composed of olive gray (5Y 5/2) to olive (5Y 5/3) CLAY WITH NANNOFOSSILS AND DIATOMS and dark gray (5Y 4/1) DIATOM CLAY WITH SILT. Color changes are extremely subtle and gradational.  Minor Lithology: Intervals of dark gray (5Y 4/2) CLAY WITH GLAUCONITE AND SILT occur in Section 2, 40-65 cm, Section 4, 80-90 cm, and Section 6, 72-84 cm.  General Description: The core is moderately bioturbated to nearly homogeneous.

GRAPE density (g/cm³)   Magnetic suscept. (10⁻⁶ St)   Magnetic suscept. (10⁻ಠ St)   Magnetic suscept. (10˚ಠ St)   Magnetic sus				SITE 102		LE	C COR		ВН		CORED 17.0 - 26.5 mbsf
DIATOM CLAY WITH SILT and NANNOFOSSIL OOZE WITH C AND DIATOMS  Major Lithologies: This core consists of light grayis (5Y 5/2) DIATOM CLAY WITH S and olive (6Y 5/3) NANNOFOSS OOZE WITH CLAY AND DIATO Color and compositional change subtle and gradational.  Minor Litologies: A small amount of GLAUCONIT dispersed throughout the upper of the core and a pocket of GLAUCONITE SAND is found in Section 3, 65 cm.  General Description: The sediment is moderately bioturbated.	density	suscept.	ty suscept	Weter Grap	Section	Age	Structure	Disturb	Sample	Color	Description
Color and compositional change subtle and gradational.  Minor Litologies: A small amount of GLAUCONIT dispersed throughout the upper of the core and a pocket of GLAUCONITE SAND is found in Section 3, 65 cm.  General Description: The sediment is moderately bioturbated.	-\				1		**************************************	<b>**</b>			Major Lithologies: This core consists of light grayish olive (5Y 5/2) DIATOM CLAY WITH SILT and olive (5Y 5/3) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS.
Minor Litologies: A small amount of GLAUCONIT dispersed throughout the upper of the core and a pocket of GLAUCONITE SAND is found in Section 3, 65 cm.  General Description: The sediment is moderately bioturbated.					2		\$\$ }} }}				
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				4_ 5_ 6_ 7_ 8_	5	late Pliocene	***************************************		M		A small amount of GLAUCONITE is dispersed throughout the upper portion of the core and a pocket of GLAUCONITE SAND is found in Section 3, 65 cm.  General Description: The sediment is moderately

			SIT	E 1022		LE	C COR				CORED 26.5 - 36.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- Mandanananananananananananananananananan		3		2					5Y 5/2	NANNOFOSSIL DIATOM OOZE WITH DOLOMITE AND CLAY and DIATOM CLAY WITH SILT Major Lithologies: This core consists of olive gray (5Y 5/2) DIATOM CLAY WITH SILT and pale olive (5Y 6/3) NANNOFOSSIL DIATOM OOZE WITH DOLOMITE AND CLAY. Color changes are gradational. Minor Lithologies: GLAUCONITE is dispersed throughout several thin intervals in the core.  General Description: The sediment is moderately bioturbated.
			5		4	late Pliocene	** D			5Y 6/3	
1 1.5	5 10		8		5 6 CC		*		М	5Y 5/2	

		SIT	E 1022	HC	LE	C COR	Ε 5			CORED 36.0 - 45.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		2	late Pliocene	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			5Y 6/2 To 5Y 6/3	DIATOM CLAY WITH SILT, DIATOM NANNOFOSSIL OOZE WITH CLAY, and CLAY WITH NANNOFOSSILS  Major Lithologies: This core grades slowly from light olive gray (57 6/2) DIATOM CLAY WITH SILT to pale olive (57 6/3) DIATOM NANNOFOSSIL OOZE WITH CLAY, and to light olive gray (57 6/2) CLAY WITH NANNOFOSSILS.  Minor Lithologies: Two thin intervals of dark gray fine SAND occur in Section 4, 8-9 cm, and Section 6, 55 cm.  General Description: The sediment is slightly bioturbated.
1 1.5 1	0 15 2	6		5 6 CC		~%%%% ~~~~~ %%% <b>_</b> ~~~~		М	5Y 6/2	

_			SIT	E 1022	НС	LE	C COR				CORED 45.5 - 55.0 mbsf
	GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Ī			1		1		} } } } *	≯		5Y 5/2	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS, DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT Major Lithologies:
		}	2	×	2		*****			5Y 5/3	This core consists of light olive gray (5Y 6/2) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and olive gray to olive (5Y 5/2 to 5Y 5/3) DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT. Color changes are subtle and gradational.
			3		3		~~~~			5Y 6/2	General Description: The sediment is slightly bioturbated. Sagarites occurs throughout the core.
			5		4	late Pliocene	~~~~~~~~			5Y 5/3	
		}	7		5		*****				
		<	8	V 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6					5Y 6/2	
		\	10		7 CC		> > > >	≯	M	5Y 5/2	
1.4	4 1.6 (	0 10 2	0								

		SIT	E 1022	HC	LE	C COR	E 7	7H		CORED 55.0 - 64.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2 3		1		-  -  -  -			5Y 5/3	NANNOFOSSIL DOLOMITE WITH DIATOMS, CLAY WITH SILT AND NANNOFOSSILS and NANNOFOSSIL CLAY WITH DIATOMS  Major Lithologies: This core consists of olive (5Y 5/3) NANNOFOSSIL CLAY WITH DIATOMS, light grayish olive to pale olive (5Y 6/2 to 5Y 6/3) NANNOFOSSIL DOLOMITE WITH DIATOMS, and olive gray (5Y 5/2) CLAY WITH SILT AND NANNOFOSSILS. Color and composition are mottled throughout the core and change gradually.
		4		3	sene	» » » » » »			5Y 6/3	Minor Lithologies: Section 2, 66-67 cm, contains a thin bed of dark gray fine SAND.  General Description: The sediment is moderately
		5		4	late Pliocene	**************************************			5Y 6/2	bioturbated.
\\		7		5		% % % % % % %			5Y 6/3	
		8 - - - - - 9 - - - - -		6 7 CC		***********		M	5Y 5/2	

OOZE WITH DIATOMS  Major Lithologies: This core consists of olive gray to oli (5Y 5/2 to 5Y 5/3) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS alternating with light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS. Small pyrite concretions are disseminated throughout the core and a large pyritized burrow occurs in Section 6, 20 cm.  General Description: The sediment is moderately bioturbated and mottled.  5Y 5/3  4  5Y 6/2  5Y 5/3  5Y 5/3			SIT	E 1022		LE	C COR				CORED 64.5 - 74.0 mbsf
CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and NANNOFOSS OOZE WITH DIATOMS and NANNOFOSS OOZE WITH DIATOMS  Major Lithologies: This core consists of olive gray to oli (5Y 5/2 to 5Y 5/3) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and NANNOFOSSIL OOZE WITH DIATOMS attending with light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS attending with light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS. Small pyrite concretions are disseminated throughout the core and a large pyritized burrow occurs in Section 6, 20 cm.  General Description: The sediment is moderately bioturbated and mottled.	density	suscept.	Meter		Section	Age	Structure	I <sup>—</sup> I	Sample	Color	Description
NANNOFOSSIL OOZE WITH DIATOMS alternating with light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS. Small pyrite concretions redisseminated throughout the core and a large pyritized burrow occurs in Section 6, 20 cm.  General Description: The sediment is moderately bioturbated and mottled.  5Y 5/3  5Y 6/2  5Y 5/3	}		1		1		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	000			WITH DIATOMS and NANNOFOSSIL OOZE WITH DIATOMS  Major Lithologies: This core consists of olive gray to olive
General Description: The sediment is moderately bioturbated and mottled.  5 7 5/3  7 7 7 7 6/2  8 8 7 5/3			3_		2		** ** ** ** ** ** **				NANNOFOSSIL OOZE WITH DIATOMS alternating with light olive gray (5Y 6/2) NANNOFOSSIL OOZE WITH DIATOMS. Small pyrite concretions are disseminated throughout the core and a large pyritized burrow occurs in Section 6, 20 cm.
5 7 5 8 8 5 8 6 8 5 7 5/2 5/3						late Pliocene	**************************************				The sediment is moderately
5Y 5/2 8 3 3 6 3 5 5 7 5/3			7		5		% % % %				
6 3 5Y 5/3	}	}	8				***				
9 V TO 5Y 6/2	}		9				» » » » »		M	5/3 To 5Y	

		SIT	E 1022	HC	LE	C COR	E 9	ЭН		CORED 74.0 - 83.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		** ** ** ** ** **	0000		10Y 5/1	CLAY NANNOFOSSIL MIXED SEDIMENT and CLAY WITH DIATOMS, SILT, AND NANNOFOSSILS Major Lithologies: This core consists of light grayish olive (10Y 5/1 to 10Y 5/2) CLAY
}		2		2		% % % % %			5Y 5/3	NANNOFOSSIL MIXED SEDIMENT alternating with olive (5Y 5/3) CLAY WITH DIATOMS, SILT, AND NANNOFOSSILS. Color is mottled and changes are gradational.
}		4	P.1	3		** ** ** ** ** **			10Y 5/1	Minor Lithologies: Section 6, 60-61 cm, contains a thin layer of ASH.  General Description: The sediment is moderately bioturbated.
}		5		4	late Pliocene	>>> >>> >>> >>> >>> >>> >>> >>>			5Y 5/3	
}		7		5		*** *** *** *** ***			10Y 5/1	
0 1	0 20 4	9 -		6 7 CC		**************************************		M	10Y 5/2	

	SI	TE 1022	HOL	_E	C COR	E	10H		CORED 83.5 - 93.0 mbsf
GRAPE Magne density susce (g/cm <sup>3</sup> ) (10 <sup>-6</sup>	pt.	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}		1		**************************************			5Y 5/3	CLAY NANNOFOSSIL MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS  Major Lithologies: This core consists of olive to olive gray (5Y 5/3 to 5Y 5/2) CLAYEY NANNOFOSSIL OOZE WITH
}	3_		2		**************************************			5Y 6/3	DIATOMS alternating with pale olive (5Y 6/3) CLAY NANNOFOSSIL MIXED SEDIMENT. Color and composition change gradually.  General Description: The sediment is moderately
	4_		3	sene	*** *** *** ***			5Y 5/2	bioturbated and shows diagenetic haloes surrounding a few burrows.
	5_		4	late Pliocene	% % % % %			5Y 6/2	
	}  -   7_		5		** ** ** **			5Y 5/3	
	) } }				** ** ** **			5Y 6/3	
	8_  -  9_  -		6 7 CC		***************************************		M	10Y 5/2	
0 1 0 10	20								

		SIT	E 1022		LE	C COR				CORED 93.0 - 102.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		**************************************			5Y 6/2	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS  Major Lithologies: This core consists of light olive gray to pale olive (5Y 6/2 to 5Y 6/3) CLAYEY
}		3_		2		** ** ** ** **			5Y 6/3	NANNOFOSSIL OOZE WITH DIATOMS alternating with gray (5Y 5/1 to 5Y 6/1) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS. Color changes are gradational and slightly mottled.  Minor Lithologies:
}		-		3		** ** ** **			5Y 5/1	A 0.5 cm ASH layer is found in Section 5, 48 cm.
		5		4	late Pliocene	**************************************			5Y 6/2	General Description: The sediment is moderately bioturbated.
		8		6		**************************************			5Y 6/1	
1 1.5	10 20 3	9		7 CC		** ** ** ** **		M	5Y 6/2	

			SIT	E 1022	HC	LE	C COR	E	12H		CORED 102.5 - 112.0 mbsf
	GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		2		3			10Y 5/1	NANNOFOSSIL OOZE WITH CLAY Major Lithology: This core consists of light grayish olive (10Y 5/1) to olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH CLAY. Diatoms and foraminifers compose almost 10% of the sediment.  Minor Lithologies: A thick bed of dark gray (5Y 4/1) CLAY WITH DIATOMS AND NANNOFOSSILS occurs in Section 4. A 0.5 cm, sharp-based lamination of light gray (N7) VITRIC ASH is present at Section 5, 30 cm.
			4 - - - 5		3	ate Pliocene	} } }			5Y 5/2 5Y 4/1	General Description: The sediments are mostly homogeneous with distinct burrows being only locally developed.
			6 6 7		5	lat	<b>—</b> −A		s	10Y 5/1	
	MM		8 -        		6		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		S	10Y 5/2	
1.		0 10 2	10		7 CC		; ;; ;;	/\	М	10Y 5/1	
	-										

GRAPE density (g/cm³) Magnetic suscept. (10 <sup>-6</sup> SI) Graphic Lith. Graphic Gr	ow-
NANNOFOSSIL OOZE WITH    Major Lithology: This core is composed of flow disturbed, gray (5Y 5/1)	ow-
NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) NANNOFOSSIL OOZE WITH Major Lithology: This core is composed of flow disturbed, gray (SY 5/1) National Action of the composed	xis-

		SITE 1022	НО	LE	C COR		14H		CORED 121.5 - 131.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	ੁੱ Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	7	N				WWWW-		5Y 5/1	NANNOFOSSIL OOZE WITH CLAY AND DIATOMS
		Void	1			M		5Y 5/1	Major Lithology: This core consists of nearly homogeneous gray (5Y 5/1) to light grayish olive (10Y 5/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS. Color transitions are subtle and gradual. No primary sedimentary features are evident.
		3						5Y 6/1	General Description: The sediments are homogeneous and very disturbed in Sections 1 and 5.
}		4	3	early Pliocene -late Pliocene				5Y 5/1	
}		5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4	/ Pliocene -la			S	5Y	
	}	6		earl		l		6/1	
		7	5			- www	S		
}		8	6					10Y 5/1	
}		9	7			·			
0 1	0 20 4	10	CC				M		

		SIT	E 1022	HC	<u>LE</u>	C COR		15H		CORED 131.0 - 140.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		**	MMM		10Y 5/1 10Y 4/1	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and NANNOFOSSIL OOZE WITH CLAY AND DIATOMS Major Lithologies: This core consists of subtle and gradual alternation between gray (5Y
		2		2		\$ <b>\$</b>			5Y 5/2	5/1) to light grayish olive (10Y 5/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS.
		3 - -		3	ocene	*****		S	5Y 5/1	Minor Lithology: A few beds of dark gray (5Y 4/1) to grayish olive (10Y 4/1) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS are intercalated with the ooze.
		5			early Pliocene -late Pliocene	<b>&gt;</b>		s	5Y 5/2	General Description: The sediments range from homogeneous to heavily and distinctly burrowed. Chondrites trace fossils are abundant and Zoophycos occurs in
}	}	6		4	early Plio	} >>>			5Y 5/1	Section 4.
		-		5		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			5Y 4/1	
	{						 		5Y 5/1	
		8 - 8 - - - - 9 - -		7		% 6 % 6			5Y 5/2	
1.5 1.75	0 20 4		M-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	CC			Ľ	М		

		SI	ΓΕ 1022		LE	C COR		16H		CORED 140.5 - 150.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				1			M00 WWWWWWW-		5Y 4/1	CLAY WITH SILT AND DIATOMS OR NANNOFOSSILS and NANNOFOSSIL CLAY WITH SILT AND DIATOMS Major Lithologies: This core consists of dark gray (5Y
	]	-					$\wedge$		5 Y 5/1	4/1) to grayish olive (10Y 4/1) CLAY WITH SILT AND DIATOMS OR
		3_		2		<b>&gt;</b>	W WWWW	S		NANNOFOSSILS. This sediment is interbedded with gray (5Y 5/1) NANNOFOSSIL CLAY WITH SILT AND DIATOMS. Small, mm-scale, sand pods are distributed through Sections 3 and 4. A fragment of
	{	-								sponge is located near the top of Section 5.
}		4		3	Pliocene	<b>&gt;</b>			5Y 4/1	General Description: The sediment is homogeneous to slightly burrowed. Sections 1 through 3 are very disturbed by coring and extraction.
}		5		4	early Pliocene -late Pliocene	} } }				Note: Expanded material from Section 2 is boxed separately.
}		6			early P	}		s		
}		7		5		<b>&gt;</b>			5Y 5/1	
		8		6		<b>&gt;</b>			10Y 4/1	
	1	9		7		3			5Y 4/1	
		10		cc			·	М	5Y 5/1	
0 1	0 10 2	0								

		SIT	E 1022		LE	C COR	E			CORED 150.0 - 159.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		1		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	MMMM		5Y 4/2	NANNOFOSSIL DIATOM OOZE WITH CLAY and CLAY WITH SILT  Major Lithologies: This core consists of dark gray (5Y 4/1) CLAY WITH SILT and olive gray (5Y 4/2 to 5Y 5/2) NANNOFOSSIL DIATOM OOZE WITH CLAY. The clay contains ~8% diatoms. Fine sand pods and lenses are sparsely distributed throughout Sections 2 and 3. A sponge
		3		3		***************************************		S	5Y 5/2	fragment is present in Section 4. Color and compositional changes are gradual.  General Description: The core is mostly homogeneous, but is moderately to heavily bioturbated in Sections 2 and 3. This is mostly
{		4			Pliocene	₩ ₩ ₩			10Y 4/1	indicated by sand-filled burrows.
<		5		4	early Pliocene -late Pliocene			S		
		6  -  7	V	5	ea				5Y	
		8	V	6		} }			4/1	
	\ {	9	V	7 CC		<b>&gt;</b>	-    	м		
0 1	0 50 10	0			_				•	

			SIT	E 1022			C COR	Ε			CORED 159.5 - 165.2 mbsf
GRA den: (g/ci	sity	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
T	m <sup>3</sup> )	(10°5)	2		1 2 3 GCC	early Pliocene -late Pliocene		$\langle V \rangle V $	s s	5Y 5/1  5Y 6/1  5Y 6/2  5Y 5/1  5Y 5/2	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS Major Lithology: This core consists primarily of gray (5Y 5/1 to 5Y 6/1) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Minor Lithologies: Two dolomitic beds are present in this core. A moderately indurated, light olive gray (5Y 6/2) DIATOM DOLOMITE WITH CLAY AND NANNOFOSSILS is present in the lower part of Section 2, and a well- indurated, 40-cm thick bed of olive gray (5Y 5/2) DOLOSTONE spans Sections 3 and 4.  General Description: This core is badly disturbed (fractured and biscuited) by XCB coring. No bioturbation or other sedimentary structures are evident.
1 2		0 10 2	0		_			_	141		

		SIT	E 1022		LE	C COR				CORED 165.2 - 174.8 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	-{			1					10Y 4/1	NANNOFOSSIL OOZE WITH CLAY AND DIATOMS and CLAY WITH SILT OR DIATOMS
	}			Ė				S	10Y 5/1	Major Lithologies: This core consists of dark gray (5Y 4/1) to grayish olive (10Y 4/1) CLAY WITH SILT OR DIATOMS and gray
{		2		2			1111		5Y 5/1	(5Y 5/1) to light grayish olive (10Y 5/1) NANNOFOSSIL OOZE WITH CLAY AND DIATOMS.
{		3_	v				\ \ \ \ \			General Description: The core is very badly fractured and biscuited by XCB coring. No primary
	}	-	V V	3			> +++		5Y	sedimentary features are evident.
	}	-	v v v		early Pliocene		1		4/1	
}		5	v v	4	early F					
		6					1	S		
}	}	7		5			1 1 1		5Y 4/2	
									5Y	
		8		6			\ \ \ \ \		5/1	
		9		7 CC			^^^^	М	5Y 4/1	
0 1	0 10 2	0								

		SIT	E 1022	HC	LE	C COR				CORED 174.8 - 184.4 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1			$\sqrt{\vee}$		5Y 4/1	CLAY WITH DIATOMS AND SILT and NANNOFOSSIL OOZE WITH DIATOMS, CLAY, AND FORAMINIFERS  Major Lithologies: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) CLAY WITH DIATOMS AND SILT with one thick bed of olive gray (5Y 5/2) NANNOFOSSIL OOZE WITH
	}	3_					$\langle \rangle \rangle \rangle \rangle \rangle \langle \rangle \rangle \langle \rangle \rangle \langle \rangle \langle \rangle \langle \rangle \langle \rangle$			DIATOMS, CLAY, AND FORAMINIFERS spanning Sections 5 and 6.
		4		3	ne		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5Y 4/2	General Description: This core is very badly fractured and biscuited by XCB coring. Almost 50% of the volume has been pulverized to interbiscuit slurry. Only one, large burrow is evident in Section 5.
		5	, , , , ,	4	early Pliocene		\^^\		5Y 4/1	
		6		5	98	}	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5Y 4/2	
		7					$\wedge \wedge \wedge \wedge \wedge \wedge$	S	5Y 5/2	
	}	9 -		6 7 CC			<u></u>	S	5Y 4/2	
0 1	0 10 2	110 t 20	<u> </u>	_	Ш			M		1

		SIT	E 1022		LE	C COR	E			CORED 184.4 - 194.0 mbsf
density su	agnetic scept. 0 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				1			WWW	8	5Y 4/1	CLAY WITH DIATOMS, SILT, AND NANNOFOSSILS and NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS AND SILT
	>	1							5Y 4/2	Major Lithologies: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) CLAY WITH
	;	2		2					5Y 5/2	DIATOMS, SILT, AND NANNOFOSSILS and olive gray (5Y 5/2) to light olive gray (5Y 6/2) NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS AND SILT.
				3	е	;; ;; ;; ;; ;;		S	5Y	Minor Lithology: A 3-cm diameter nodule of BARITE WITH CLAY occurs within the disturbed interval at Section 1, 44 cm
	ľ	4-			iocen	3}	<u> </u>	3	4/1	and may be slough from above.
		-			early Pliocene		1	ı	5Y 5/2	General Description: The core is badly fractured and
		5	431313131313131313131313131313131313131	4	ea	}} }}	1		5Y 4/1	biscuited, obscuring most primary features. Nonetheless, parts of Sections 3 and 5 do display moderate bioturbation.
		7		5		<i>&gt;&gt;</i>	1111111111		5Y 5/1	
{ (		۱		6			1	c	5Y	
1 1.5 2	20 40			СС			$\times$	S M	6/2	

		SIT	TE 1022			C COR		22X		CORED 194.0 - 203.6 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1			w / ///// →		5Y 4/1	CLAY WITH NANNOFOSSILS AND DIATOMS, CLAY NANNOFOSSIL MIXED SEDIMENT WITH DIATOMS and CLAY WITH DIATOMS  Major Lithologies: This core consists of dark gray (5Y
}	$  \rangle$	-					1		5Y	4/1) to very dark gray (5Y 3/1) CLAY WITH DIATOMS, and gray (5Y 5/1) to
		2	V V <del> </del>	2					3/1	olive gray (5Y 5/2) CLAY WITH NANNOFOSSILS AND DIATOMS to CLAY NANNOFOSSIL MIXED
							1	S		SEDIMENT WITH DIATOMS.
		3	V	3					5Y 5/1	Minor Lithology: A bed of hard, light olive gray (5Y 6/2) DOLOSTONE spans Sections 6 and 7.
		4_=	<u>v   </u>		Ф		1			General Description: This core is badly fractured, biscuited,
		5			early Pliocene		1		5Y 5/2	and pulverized by XCB coring. Over 50% of the sedimentary rocks are crushed. Within coherent biscuits, the sediments are homogeneous.
				4	earl		1		5Y 5/1	
		6					1		5Y 5/2	
}							1		5/2	
		7		5			1		5Y 5/1	
	}	8		6			1111-	S	5Y 5/2	
							1	S	5Y 6/2	
	}	9		7 CC			11111	М	5Y 5/2	
1 1.5	0 10 2	20	L Jean		_					

		SI	ΓΕ 1022	НС	LE	C COR		23X		CORED 209.3 - 213.2 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
(g/cm <sup>3</sup> )		2		2			- Vefe VV eferences	S	5Y 5/2 5Y 5/1	CLAY WITH DIATOMS AND SILT  Major Lithology: This core consists almost entirely of dark gray (5Y 4/1) to olive gray CLAY WITH DIATOMS AND SILT.  Minor Lithology: Two hard, beds of olive gray (5Y 4/2) to gray (5Y 5/1) DOLOSTONE occur in Sections 2 and 3.  General Description: The sediment is greatly fractured and biscuited with about 30% pulverized material between coherent biscuits. The only sedimentary feature is some moderate bioturbation in the middle of Section 3.
		5		4	early Pliocene	**		S	5Y 5/2	Geoloff 5.
		7	325535355355555555555555555555555555555	5			1444444444	S	5Y 4/1	
1.5 2 1	0 20 3	9	7777777	7 CC			^^^^	М	5Y 4/2	

GRAPE density (g/cm³) Magnetic suscept. (10 <sup>-6</sup> Si) Graphic Lith. Graphic St	anntour Disturb	Sample	Color	
		Š	ပိ	Description
	© ++++++++++++++++++++++++++++++++++++		5Y 4/1	CLAY WITH DIATOMS AND SILT  Major Lithology: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2 to 5Y 5/2) CLAY WITH DIATOMS AND SILT.  Minor Lithologies: Color changes are subtle and gradual. A sandy band in Section 1 contains fine-grained quartz, feldspar, and glauconite.
3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	***************************************	1	5Y 4/2	General Description: This core is fractured and biscuited by XCB coring. Approximately 30% is pulverized between biscuits. No bioturbation is evident except in Section 3.
5 1 4 A A A A A A A A A A A A A A A A A A	 	S	5Y 5/2	
5 7 5 5 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	111111111111111111111111111111111111111	S	5Y 4/1	
1.5 1.75 0 10 20	×	М		

		SIT	E 1022		LE	C COF		25X		CORED 222.9 - 232.5 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1	33733333333333333	1			$\wedge \wedge \neg \neg$	S	5Y 4/1	CLAY WITH DIATOMS AND SILT and CLAY DIATOM NANNOFOSSIL MIXED SEDIMENT  Major Lithologies: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2 to 5Y 5/2) CLAY WITH DIATOMS AND SILT to CLAY DIATOM NANNOFOSSIL
		3_	787578757875	2					5Y 4/2	MIXED SEDIMENT. Organic debris makes up about 2% of the sediment.  General Description: The core is fractured and biscuited, obscuring most sedimentary features. Slight to moderate bioturbation is visible in a few places. Chondrites are
		4		3	ocene	3	<u> </u>		5Y 4/1	present in Section 6.
		6	111111111111111111111111111111111111111	4	early Pliocene				5Y 4/2	
				5		_	1		5Y 4/1	
		7	\$75,257,557			>>	1		5Y 5/2	
		8	77777	6		% 6 % 8		S	10Y 4/1	
0 1 (	0 10 2	20	77777	7 CC			1 1 1 1 1 1 1	M	5Y 4/1	

		SIT	E 1022	HC	LE	C COR	E	26X		CORED 232.5 - 242.1 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	1111111		1		% 6 % 8 % %	$\vee \vee \vee \vee$		10Y 4/1	DIATOM CLAY and DIATOM CLAY MIXED SEDIMENT  Major Lithologies:
		2_	3751575757575757575757575757575757575757	2		** **	H //////// H		5Y 4/1	This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOM CLAY to DIATOM CLAY MIXED SEDIMENT. Color transitions are gradual and subtle. Pyrite forms up to 6% and organic debris up 3% of this sediment.
		3		3	early Pliocene	**	/////	S	5Y 5/1	General Description: This core is highly fractured and biscuited, with pulverized interbiscuit slurry composing up to 40% of the core. Moderate bioturbation is visible only in Sections 1 and 4. Chondrites is present in Section 1.
		6		5	9	"	$\times$	S	5Y 4/2	
1 1.5		5	<b>2</b>	UC			×	М	4/1	

		SIT	E 1022	HC	LE	C COR		27X		CORED 242.1 - 251.8 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
{				1			$\wedge \wedge \wedge \wedge$		10Y 4/1	DIATOM CLAYSTONE and CLAYEY DIATOMITE WITH NANNOFOSSILS Major Lithologies:
}		1_				}}} 6 }}}	$\wedge \wedge \wedge \wedge \wedge$		5Y 4/1	This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOM CLAYSTONE and grayish olive (10Y 4/1) CLAYEY DIATOMITE WITH
		2		2			\\\\\		5Y 4/2	NANNOFOSSILS. Small, mm-scale, tubular Sagarites sponges are distributed throughout the sediment.
		3_				}	$\wedge \wedge \wedge \wedge$			General Description: This core is biscuited and fractured by XCB coring, with about 25% pulverized to interbiscuit slurry. Most
	$\left.\right $			3			\\\\\	S	5Y	of the core reveals no sedimentary structures, but Section 1 is heavily bioturbated. Chondrites trace fossils are present in the sediment.
					early Pliocene		$\wedge \wedge \wedge \wedge$	I	4/1	are present in the seament.
	}	5		4	early P		^^^^			
		6					$\wedge \wedge \wedge \wedge$		5Y 4/2	
		7_		5		<b></b>	./////			
}							^^^^	S	10Y 4/1	
}		8		6		}	$\sqrt{NNN}$			
	,	9		7		}	\ \ \		5Y	
0 1	0 10 2	20	<u>~~~</u>	υÜ				M	4/1	

		SI	ΓE 1022	НС	LE	C COR	E	29X		CORED 261.4 - 271.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		}} }} 6 }}	$\times$ $\wedge$		5Y 4/1	DIATOMITE WITH CLAY  Major Lithology: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOMITE WITH CLAY. The sediment is compacted and indurated enough to display fissility when fractured. A few Sagarites sponge fragments are present in the lower part of the core. Nannofossils and organic debris make
		3		3		33 >>> 33 >>>	<u> </u>	S	5Y 4/2	up a few percent of the sediment.  General Description: This core is badly fractured and biscuited by XCB coring. Approximately 35% of the core is pulverized to interbiscuit slurry. Moderate bioturbation is visible at a few places in Sections 1, 2, and 4.
		5_		4	early Pliocene	}} }} 6			5Y 4/1	
		6 - - - - - - - - - - - - - - - - - -		5	ев	**	<u> </u>	S	5Y 4/2	
		9		7			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5Y 4/1 10Y 4/1 5Y	
1 1.5	5 10 1	5					Ľ	M	4/1	

DIATOMITE WITH CLAY  Major Lithology: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOMITE WITH CLAY. Pyrite, organic debris, radiolarians, and locally nannofossils, each make up a few percent of the sediment. A few Sagarites sponges are			SI	ΓΕ 1022			C COR	Ε			CORED 271.0 - 280.6 mbsf
Major Lithology: This core consists of dark gray (5Y 4/1 to olive gray (5Y 4/2) DIATOMITE WITH CLAY. Pyrite, organic debris, radiolarians, and locally nannofossils, each make up a few percent of the sediment. A few Sagarites sponges are exceedingly subtle and gradual.  General Description: The core is fractured and biscuited by XCB coring with approximately 45% crushed to a plastic slurry. Slight to moderate bioturbation is evident in some coherent biscuits, including Chondrites and Planolites trace fossils.	density	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
S S SY 4/2  The cole is flat died and bisculted by 35% crushed to a plastic slurry. Slight to moderate bioturbation is evident in some coherent biscuits, including Chondrites and Planolites trace fossils.  S S SY 4/2  S S SY 4/2  S S SY 4/2			2				,,	XXHHHH AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		5Y 4/1	Major Lithology: This core consists of dark gray (5Y 4/1) to olive gray (5Y 4/2) DIATOMITE WITH CLAY. Pyrite, organic debris, radiolarians, and locally nannofossils, each make up a few percent of the sediment. A few Sagarites sponges are visible in Section 1. Color changes are
5 Y 5/2  1 10Y 4/1  1 10Y 4/1  3 3 6 6  3 3 6 5 Y 4/2			3		2		``````````````````````````````````````	$\overline{\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ }$	0	5Y 4/2	The core is fractured and biscuited by XCB coring with approximately 45% crushed to a plastic slurry. Slight to moderate bioturbation is evident in some coherent biscuits, including
4 33 5 5 7 4/1 5 7 4/2 5 7 4/2			4		3	liocene	» »	$\langle \rangle \rangle \langle \rangle \langle$			Chondrites and Planolites trace fossils.
5 Y 4/1 SY 4/2			5_			early F		$\sim$	'		
6   4/2			6					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S	5Y 4/1	
			8_		6			$\langle \rangle \rangle$		5Y 4/2	
1 1.5 0 10 20		>			CC			S ×	S		

		SIT	E 1022	HC	LE	C COR		31X		CORED 280.6 - 290.3 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	, ·	-		1			>		10Y 4/1	DIATOMITE WITH CLAY and DIATOMITE WITH CLAY AND
				2		}} }}	\ \ \ \		5Y 4/1	NANNOFOSSILS  Major Lithologies: This core consists of dark gray (5Y 4/1)
						% % % %	^^^		5Y 4/2	to light olive gray (10Y 5/1) DIATOMITE WITH CLAY and olive gray (5Y 5/2) to olive (5Y 5/3)
		2 <u>-</u> - -		3			\ \ \ \		5Y 4/1	DIATOMITE WITH CLAY AND NANNOFOSSILS. A few sponges are scattered throughout the sediment.
		3					^^^^	S		General Description: The core is badly fractured and biscuited. Heavy bioturbation is
							$\leq$		5Y 4/2	present in only a few sections.
		4		4			$\leq$		7/2	Note: Section 1 fell out of liner and was replaced without stratigraphic ordering.
					ocene		>			
	}	5			early Pliocene	}} }}	$\leq$		5Y 4/1	
	}	-		5	9	**	$\leq$			
		6				>>> 6 >>> 6			10Y 5/1	
		7				**	$\leq$	S	5Y	
				6		}} }} }}	$\leq$	5	5/2	
		8					$\leq$			
	}			7					5Y 5/3	
		9							5Y	
\				8 CC				, a	5/2 5Y	
1 1.5 (	0 10 2	<u> </u>	<u> </u>	_			_	M	5/1	<u> </u>

		SIT	E 1022	HC	LE	C COR				CORED 290.3 - 299.9 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		** ** ** ** ** ** ** ** ** ** ** ** **			5Y 4/2	DIATOMITE WITH CLAY AND NANNOFOSSILS and NANNOFOSSIL DIATOMITE WITH CLAY  Major Lithologies: This core consists of dark gray to olive (5Y 4/1 to 5Y 4/3) DIATOMITE
		2		2		** ** ** ** **	1111111111		5Y 5/3	WITH CLAY AND NANNOFOSSILS and olive to pale olive (5Y 5/3 to 5Y 6/3) NANNOFOSSIL DIATOMITE WITH CLAY. Laminations are present in Section 3 and the top of Section 4.  General Description: The sediment is slightly to moderately
		-				<b>=</b> ===================================	土	s	5Y 4/1	bioturbated.
		4 - - - -		3	ocene				5Y 5/3	
		5		4	early Pliocene			S	5Y 6/3	
		- - - - 7 -		5					5Y 5/3	
		8 - - - - - - - - - - - - - - - - - -		6 7 CC		3 4 4 4 6 7 8 7 8	1-	M	5Y 4/3	

		SIT	E 1022	HC	LE	C COR	Ε :	33X		CORED 299.9 - 309.6 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		-		1		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	++++++++++++++++++++++++++++++++++++		5Y 4/2	DIATOMITE WITH CLAY and CLAY DIATOM MIXED SEDIMENT WITH SILT  Major Lithologies: This core consists of gradual alternations between olive gray (5Y 4/2) DIATOMITE WITH CLAY and olive gray (5Y 5/2) CLAY DIATOM
	}	2		2		} }	$\bot\bot\bot\bot$		5Y 5/2	MIXED SEDIMENT WITH SILT. General Description:
		3		3					5Y 4/2	The sediment is moderately fractured into biscuits which show slight to moderate bioturbation.
		5_				** ** ** ** ** **	$\perp$	Sı	5Y 5/2	
		6 6 7		5	early Pliocene	»  »  »  »  »	<del>+++++++++++++++++++++++++++++++++++++</del>	S	5Y 4/2	
1.4 1.6	5 10 1	9 -		6 7 CC		3 3	$\perp$	M	5Y 5/2	

		SIT	TE 1022	HC	LE	C COR	E	34X		CORED 309.6 - 319.3 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		2		3 3 3 3		00	5Y 5/3	DIATOMITE and DIATOMITE WITH CLAY  Major Lithologies: This core consists of olive to olive gray (5Y 5/3 to 5Y 5/1) DIATOMITE WITH CLAY and olive (5Y 4/3) DIATOMITE. Color changes are gradual and slightly mottled.  General Description: The sediment is slightly bioturbated.
		5 6 7 8		3 4 5	early Pliocene	»» » »»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»		- 0	5Y 4/3	
1 1.5	0 5 1	9		7 CC		3	$\neg \neg $	М	5Y 5/1	

		SI	TE 1022	НС	LE	C COR	Ε	35X		CORED 319.3 - 328.9 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		3 3 5 6		3	early Pliocene	*******		S	5Y 4/3	DIATOMITE WITH CLAY  Major Lithology: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) DIATOMITE WITH CLAY. Darker color values indicate a slight increase in the diatom content.  General Description: The sediment is slightly bioturbated, however, extensive fracturing makes structural features difficult to observe.
	0 10	7 7 8 - - -		6 CC		3 4 4 6 7 8 7 8 8 9 8 1 8 8 1 8		S	5Y 4/2	

		SI	ΓE 1022	HC	LE	C COR		36X		CORED 328.9 - 338.6 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		1 2 3 4 5 6 CC	early Pliocene	» » » » » » » » » » » » » » » » » » »		<i>s</i> - <i>s</i> - <i>s</i>	5Y 4/2 To 5Y 4/3 5Y 5/2 5Y 3/2 To 5/2	CLAYEY DIATOMITE  Major Lithology: This core consists of dark olive gray to olive (5Y 3/2 to 5Y 4/3) CLAYEY DIATOMITE. Color changes are gradual.  Minor Lithologies: Two thin beds of DOLOMITE occur in Section 4, 35-40 cm, and Section CC, 0-20 cm.  General Description: The sediment is slightly bioturbated, however, extensive fracturing makes structural features difficult to observe.

		SIT	TE 1022	НС	LE	C COR	Ε ;	37X		CORED 338.6 - 348.2 mbsf
density	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 1.5 0	5 1	1 2 3 4 5 7 8 9 0		1 2 3 4 5 CC	early Pliocene		^^^^^^^^^^^	S	5Y 5/3	DIATOMITE WITH CLAY  Major Lithology: This core consists of homogeneous, olive (5Y 5/3) DIATOMITE WITH CLAY.  General Description: The sediment is slightly bioturbated at the top of the core and is homogeneous in the lower part. The sediment is extensively fractured into biscuits and sedimentary structures are difficult to discern.

		SI	ΓΕ 1022	HC	LE	C COR				CORED 348.2 - 357.8 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		** ** ** ** ** **	$\dashv$		5Y 4/2	DIATOMITE WITH CLAY AND SILT and CLAYEY DIATOMITE  Major Lithologies: This core consists of olive to olive gray (5Y 4/2 to 5Y 5/3) DIATOMITE WITH CLAY AND SILT and olive to olive gray (5Y 4/2 to 5Y 4/4) CLAYEY DIATOMITE. Color changes are gradational.
		3		3	early Pliocene	» » » » » » » » » » » » »	$\neg\neg\neg\neg\neg$	S	5Y 4/4	General Description: The sediment is slightly bioturbated but extensive fracturing makes sedimentary structures difficult to discern.
		6 7		5	earl	}} }}		S	5Y 5/3	
		8 9		6		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	<del>                                      </del>		5Y 4/2	
1 1.5	0 10 2	0		CC	Ш		⊥	М		

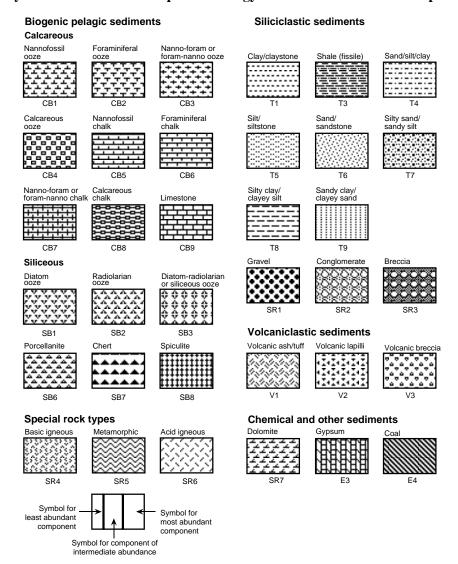
		SI	TE 1022	НС	LE	с со	RE	39X		CORED 357.8 - 367.4 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	e Disturb	Sample	Color	Description
			2222	П		}} >>			5Y 6/3	SILICEOUS MUDSTONE
		1_		1		>>> >>> >>> >>> >>> >>>			5Y 5/3	Major Lithology: This core consist of olive to olive gray (5Y 4/3 to 5Y 5/2) SILICEOUS MUDSTONE.
		2		2		33 33 34 35 36 37 37 38 38 39 39 30 31 31 32 32 33 34 36 36 37 37 38 38 38 38 38 38 38 38 39 30<		S	5Y 4/3	Minor Lithologies: Section 1, 0-14 cm, contains a pale olive DOLOSTONE layer. Chert concretions occur in Sections 3 and 4, and a thin layer of dark olive gray (5Y 3/2) CHERT is found in Section 6, 78- 84 cm.
		-				** ** **				General Description: The sediment is slightly to moderately bioturbated but extensive fracturing
		4_		3	е	\ \ \ \ \ \	$\begin{vmatrix} \bot \\ \bot \\ \bot \end{vmatrix}$		5Y 5/2	makes structural features difficult to discern.
		5			ly Pliocene	» » «		I	5Y 4/3	
		-	000000 000000 000000 000000	4	early				5Y 5/3	
		7	800000 000000 000000 000000 000000	5		<b>—</b>			5Y 4/3	
		-	000000 000000 000000			3	1		5Y 5/3	
		8_		6		<b>-</b> 3 @		s	5Y 4/3	
		9_				3	1		5Y 5/3	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			7 CC		3	1	М	5Y 4/3	
1 1.5	0 10 2	0								

		SIT	TE 1022	НС	LE	C COR	E 4	10X		CORED 367.4 - 374.0 mbsf
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.5. 2	0 10 2	3	# 1000000000000000000000000000000000000	1 2 3 4 CCC	early Pliocene		+++++++++++++++++++++++++++++++++++++++	М	5Y 4/2 5Y 3/1	SILICEOUS MUDSTONE, CHERT and PORCELLANITE  Major Lithologies: This core consists of olive gray (5Y 4/2) SILICEOUS MUDSTONE that appears as highly silicified clay in smear slides. Numerous thin layers of very dark gray (5Y 3/1) CHERT and PORCELLANITE occur throughout the core.  Minor Lithologies: Section 3, 118-126, consists of dark gray (N3) very fine ASH with pyrite.  General Description: The sediment is moderately fractured and slightly bioturbated.

		SIT	E 1022		CORED 374.0 - 383.5 mbsf					
GRAPE density (g/cm <sup>3</sup> )	Magnetic suscept. (10 <sup>-6</sup> SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.6 1.8	0 20 4	1		1 CC	early Pliocene			S	10Y 4/1	PORCELLANITE and CHERT  Major Lithologies: This core consists of light grayish olive (10Y 4/1) PORCELLANITE. Thin beds of black (5Y 2.5/2) CHERT occur near the top of Section 1 and in Section CC.  General Description: The core is extensively fractured and no structural features are discernable.

SIT	E 1022	НС	LE	C COR	E	42X		CORED 383.5 - 387.7 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC			$\geq$	М		PORCELLANITE
			early Pliocene -					Major Lithology: This core recovered 30 cm of grayish olive (10Y 4/1) PORCELLANITE.

## Key to symbols used in the "Graphic Lithology" column on the core description sheets.



## Key to symbols used in the "Structures" column on the core description sheets.

		rilling disturbance rmbols	Sec	dimentary structures cont	•	
	_	Soft sediments				
	1	Slightly disturbed	↑F	Fining-upward sequence	<b>♦</b>	Isolated pebbles/cobbles
	1	Moderately disturbed	<b>↑</b>	Interval over which primary sedimentary structure occur	•	Isolated mud clasts
	į	Moderately disturbed	_	Planar laminae	_^_	Slump blocks or slump folds
	$\frac{2}{5}$	Highly disturbed	$\geq$	Wedge-planar laminae/beds	2	Contorted slump
	0		•••	Graded bedding (normal)	X	Probable compaction
	0	Soupy	•••	Graded bedding (reversed)	<b> </b>	fracture
		Hard sediments		Sharp contact		Microfault (normal)
	$\leq$	Slightly fractured		Gradational contact	7/	Microfault (thrust)
			w	Scoured, sharp contact	_	Managerile
	王	Moderately fractured	•••	Scoured contact with graded bed	<del>/</del>	Macrofault
	$\geq$	Highly fragmented		Thick color bands (sharp contact)	>>	Fracture
	$\stackrel{\sim}{\sim}$	Drilling breccia	****	Thick color bands (gradational contact)	×	Totally fractured
	$\widehat{\times}$	Drilling breccia		Medium color bands (sharp contact)	X	Vein structures
ı	Sec	limentary structures	3000000 3000000	Medium color bands (gradational contact)	₹3	Color mottles
	}	Burrows, rare (<30% surface area)	$\equiv$	Thin color bands (sharp contact)	<u>-</u>	Dolomite nodule/concretion
	33	Burrows, common (30%–60% surface area)	******	Thin color bands (gradational contact)	D	Disseminated dolomite
	333	Burrows, abundant (>60% surface area)		Laminations (mm scale)	P	Pyrite nodule/concretion
	>>>	Discrete Zoophycos trace fossil		Individual thick color band	Р	Disseminated pyrite
	6	Discrete Chondrites trace fossil		Individual medium color band Individual thin color band	G	Glauconite
	9	Sagarites sponge	—	Individual lamination	$ \bullet $	Concretions/nodules
	3	Gastropods	<b>***</b>	Wavy lamination		Dorito nodulo/conoration
	Ī	Other bivalves		Cross laminae	(Ba)	Barite nodule/concretion
		Chall fromments	<u>7</u> Z	Cross stratification	Ва	Disseminated barite
	8	Shell fragments	108U 77	Cross bedding	(Ca)	Calcite nodule/concretion
	#	Wood framents	ا تھار	Convoluted/contorted bedding Flaser bedding	(c)	Carbonate nodule/concretion
	$\alpha$	Fish debris	Λ	Graded interval, normal		2 2 2 (3.1.)
				Veins	(Ch)	Chert nodule/concretion
				Water escape structure	A●	Ash/pumice pods
				Scour	-A	Ashlayer
				I		