7. Result of Soil Investigation

(7. Result of Soil Investigation)

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Mi Kyaung Ai Village , Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : TOHO - D1

	DOR	ING EQ	ZOII MI		тоно - 1			_					LIE	R LEV	EL		÷	GL.	- 1.11		_
T	Ē		Ē					(m)	Œ) E	Œ Œ		TANDAI	RD P	ENETE	LATIC	ON TES	т			(PLE / EST	
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	SOIL	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	Œ	S/cm	L	CURV	E OF	BLOW	•	4	90	岩 窟	SCALE (m)
SCAL	LEVA	DEP	HCK	DIAG	0700	NAME		TE &:	SING	KER	DKPTH (m)	BLOWS/							METHOD	DEPTH GL - (m)	SCAL
+	×		-	× F	11		Χ	Ϋ́Δ	3	¥		_ m	0	10	20	30 4	10 :	50	$\stackrel{\sim}{+}$		Н
1				X X	yellow- ish	SILT/ CLAY	Very soft, yellowish gray, low plastic SILT / CLAY with a trace of roots.		1.00	1,11	1.00	3/30							P1		1
		1.30	1.30		gray		SIET / CEIT WILL & BUCC OF FOOD.	1	112mm	22.3.09]	1								Γ. Ι
2_				n X							2.00	7/30	∤						P2		_2
3_				Ψ							3.00	10/30	')					P3		_3
4				× n							4.00	5/30	1	1					P4		4
											5.00	11/30	١								.
5_				n ×							3.00]	L	<i>></i>					P5		_5
6_				₩.							6.00	7/30	1						P6		6
7											7.00	4/30	Į						P7		7
8_				×							8.00	8/30	1						P8		8
				ค								12/20	١ ا	\setminus							ļ.
9_				×			Very loose to medium dense, greenish				9.00	12/30	L	<i>></i>					P9		.
1 <u>0</u>				₩			gray to bluish gray, fine to medium		10.00 90mm	-	10.00	5/30	{]	P10	ď	10
11				×Я	greenish gray &	Silty SAND	grained, slightly Silty to Silty SAND with occasional clay patches. Mica				11.00	7/30	ļ]	P11	0	11
1 <u>2</u>				6	bluish gray	SALED	flakes and decay wood contain				12.00	6/30	1						P12		12
-				×			abundently. Shell fragments contain occassionally. Silt content increase					9/30	١								[.
13				¥			downward.				13.00]	1	1					P13		13
1 <u>4</u>				×							14.00	5/30	ł]	P14		14
15				- A				15.00 21.3.09			15.00	5/30	ļ						P15		<u>1</u> 5
1 <u>6</u>				×				21.3.09			- 16.00	9/30	\						P16		 16
17											17.00	15/30	ļ `	N							17
				×										†				ľ	P17		.
1 <u>8</u>				ץ							18.00	15/30		I٩					P18		18
19											19.00	25/30]	>				P19		19
20				×∍							20.00	19/30			/				P20		20
21											21.00	29/30]							21
				×							-]			^	1		1	P21		[.1
22		22.00	20.70					1			22.00	11/30							P22		_22
23				×							23.00	6/30	4]:	P23		23
24				×							24.00	7/30	1						P24		24
25				X							25.00	8/30	I								25
				×=		Sandy	Soft to firm, bluish gray, low to medium plastic, slightly to very				25.00		1	1				ľ	P25		
2 <u>6</u>				×	bluish gray	SILT/	Sandy SILT / CLAY with a trace of				26.00	6/30	1]:	P26		26
27				× -	gray	CLAY	mica flakes and occasional shell				27.00	12/30	'	\					P27		27
28				\times			fragments. Sand content decresed downward.				28.00	11/30							P28		28
				X]	/	7							[.
2 <u>9</u>				X							29.00	5/30	ľ]	P29		29
3 <u>0</u>		30.50	8.50	X=				30 50			30.00	6/30	ļ]:	P30		30
31		55.50	5.50					30.50 22.3.09	1		31.00	1									31
		assificated Rock		thered roo	k with ab	undant fragm	Semi hard rock : Rock in almo ents and soil Hard rock : Rock in fresi														
So	oft rock	: 1	: Rocl	k with slig	htly abund	dant fragmentsh condition			I IPLE ME	ГНОД							DEI	PTH			
N	<u>OTES</u>		REI VI	ATIVE D	ENSITY ery Loose		VS Very Soft		listurbed		⊐ (T:Thin w	all s	ampler)	ī,		1	 	. UPI	PER	
		l	L M		Loose Medium		S Soft M Medium	SP		: (•			_				-	REC	COVER	y
F	G≘X		D		Dense		St Stiff VSt Very Stiff		UBLE CO		■ s:	NGLE (OR	E:			ŕ	1		WER	
PU	KKBN	i	VI	, (ery Dense		H Hard	Wat	er Sampli	mg : [`	, LO	WER	

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Chan Thar Gone Village, Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : TOHO - D2

BORING E	QUIPM	ENT :	TOHO - D	2						WA	TE	R LEV	ÆL		:	GL -	- 1.30		
ı	î					J (B)	I(B)	H (H)	s	TANDAF	RD P	ENETI	RATIO	ON TE	ST	\Box	SAN	(PLE / EST	П
SCALE (m) ELEVATION (m) DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	SOIL NAME	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	DKPTH (m)	BLOWS/cm	Г	CURV				50	METHOD	DEPTH GL - (m)	SCALE (m)
1_ 2 2.00	2.00	* *	yellowish brown & dark brown		Very loose to loose, yellowish brown and dark brown, fine to medium grained SAND with organic matters			1.30 16.3.09	1.00	3/30 8/30	1						P1 P2		12
3_		x x x	bluish gray to dark	Silty SAND	Very loose to loose, bluish gray to drak gray, fine grained silty SAND with abundent mica.			2.00 15.3.09	3.00	2/30	₹						P3		_3
4 4.00	2.00	×	gray						5.00	9/30 5/30)						P4		_4 -
5_ 6_		×							6.00	8/30	1						P5 P6		_5 _6
<u></u>		×			Very loose to medium dense, bluish				7.00	6/30	1						P7		[. _7
8_		×	bluish gray	Sity SAND with	gray, fine grained, very silty SAND. Thin band of clay layer consist				8.00	7/30	1						P8		8
9_		× ×	8-3	CLAY lamination	12.0m. The clay layer is				9.00	3/30	4						P9	ď	ا و
10		×			characterized by low plasticity. Mica fragments are abundent. Moderate		10.0 112mm		10.00	8/30)						P10		10
11		:::::×:			water content				11.00	3/30	┥						P11		11
12		×							12.00	11/30	'						P12		12
13 13.00 14	9.00	×							14.00	12/30		t					P13		_13 _14
15		× ×							15.00	10/30		İ					P14		15
1 <u>6</u>		×	bluish	Silty	Medium dense, bluish gray and dark gray, fine grained, silty SAND with	16.00 15.3.09			16.00	10/30							P16		
17		×	gray	SAND	mica fragments. Moderate water content.	15.3.09			17.00	14/30		Ì					P17		<u>1</u> 7
1 <u>8</u>		×							18.00	16/30		}					P18		<u>1</u> 8
19		×							19.00	12/30		<i>إ</i>					P19		<u>1</u> 9
20 20.00	7.00	×							20.00	4/30	1						P20		20
21		<u>*</u>							21.00	4/30	t						P21		21
22		××=							23.00	6/30	1						P22		22
24									24.00	4/30	İ						P23		24
25		×	gray to dark	SILT / CLAY	Soft to firm, gray to dark gray, low plastic SILT / CLAY with abundent				25.00	6/30	Ţ						P25		_25
2 <u>6</u>			gray		shell fragments. Moderate water content.				26.00	5/30	Į					,	P26		 _26
27		×							27.00	8/30	١,						P27		
28		X							28.00	6/30	{						P28		28
29		^×==							29.00	5/30	╽						P29		_ 2 9
30.50	10.50					30.50 16.3.09			30.00	5/30							P30		30
Rock Classifica Weathered Roci	k : Wes	thered roc	k with abur	ndant fragme	Semi hard rock : Rock in almo ents and soil Hard rock : Rock in fresh				121.00		_	1	_						31
Soft rock 1 Soft rock 2 NOTES	: Roc	k with slig	thtly abundated abundated the street of the	ant fragment	CONSISTENCY VS Very Soft	SAM	PLE MET		_ a	:Thin w	all s	amnle	г.		DE	РГН	[JPI	PER	
	VI L M	. Ve	ery Loose Loose Medium		S Soft M Medium	SP	Г	: (•):Deniso	n sa	mpler))		ŀ		REG	COVER'	Y
FG≘X	D VI		Dense ery Dense		St Stiff VSt Very Stiff H Hard		JBLE CC er Sampli		■ sı	NGLE C	COR	E:			F	4	LO		

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Hiwa Zar Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

								_	-	2		TANDA	ם מס	PNPTE	ATIC	N TP	ëт	s	AMPLE / TEST	T
a	Œ L	a l	Œ K	M	_	SOIL		#F	Ë	E		_	_	CURV				+	TEST	ਜ਼
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	NAME	DESCRIPTION	& DE	CDE	WATER DEPTH (m)	DKPTH (m)	BLOWS / cm	H				_	SPT-NO	DEPTH GL - (m)	SCALE (m)
S	ELE	ă	Ĕ	Id	8			DATE & DEPTH (m)	CASING DEPTH (m)	WATE	930	BIO I	0	10	20	30 4	40 5	50 E	2 E	S
1_				*			Very soft to soft, bluish gray, medium to high plastic, Sandy		Ť	1.80	1.00	4/30						PI		i
2_				*	bluish	Sandy	CLAY with roots complex, organic fragments and mica flakes. The		2.00 127mm	23.3.09 2.00 24.3.09	2.00	2/30	/					P2		2
3					gray	CLAY	upper most portion shows its weather color, mottled yellowish brown and				3.00	2/30	ļ					P3		3
4_							dark gray. Sand content increased downwards.				4.00]	ľ.					UD		Т
5 6	\dashv	5.00	5.00	~~-** * *			Very loose, bluish gray, fine grained,				6.00	3/30	Ì					P4	4.80m 80/80	
7				×	bluish gray	Very Silty	Very Silty SAND with clay patches. Decay wood fragments and mica				7.00	2/30	İ					P5		_6
3	_	8.00	3.00	×		SAND	flakes contain abundently.				8.00	2/30	Ţ					P7		8
-				× -							9.00							UD	9.00m	ول
<u>o</u>				: x * x :-	11.1.1	Sandy	Very soft, bluish gray, low plastic, Sandy SILT / CLAY with				10.00	2/30	ł					P8	9.80m 40/80	10
1				×	bluish gray	SILT / CLAY	decomposed wood fragments and mica mineral. Sand content increase downward.	11.50 23.3.09			11.00	2/30	1					P9		11
2				×			downward.				13.00	3/30	Ì					P10		12
14		14.20	6.20	× ×							14.00	4/30	1					P1:		14
1 <u>5</u>				X							15.00	5/30	ļ					P1:	3	15
<u>6</u>				*			Loose bluish gray, fine grained,				16.00	7/30	Į					P14		16
7				X A X	bluish gray	Silty SAND	slightly to very Silty SAND with mica flakes, organic decay and shell				17.00	10/30		}				P1:	;	17
8				X			fragments. Silt content increase downward.				19.00	8/30 6/30	f					P16		18
20			. 10	×							20.00	7/30	İ					P17		20
21	 	20.30	6.10	×××							21.00	6/30	Į					P19		21
22				×.*×							22.00	5/30	1					P20		22
3				×××			Firm to shiff, dark gray to bluish gray, medium plastic, very Sandy SILT				23.00	5/30	ł					P21		23
14				x∷x J	bluish gray to	Very Sandy	intercalated with sandy clay layers. Sandy Clay layers are observed in				25.00	7/30 14/30	١					P22		24
26				×××	dark gray	SILŤ	22.0 to 22.5m, 24.0 to 24.8m and 30.0 to 30.5m respectively. Shell fragments are abundent and mica flakes and				26.00	5/30	/					P23		26
27				×××			organic matter contain occassionally.				27.00	4/30	Į					P25		27
28				×. ×							28.00	5/30	1					P26	5	28
9				× ×							29.00	5/30	ł					P27	,	29
3 <u>0</u>	:	30.50	10.20					30.50 24.3.09			30.00	6/30	1					P28	3	30
R	ock Clas			a			Semi hard rock : Rock in almos	st fresh co	ndition		21.00									31
Sc	eathered oft rock	1	: Rocl	k with slig	htly abunda	nt fragmen	ents and soil Hard rock : Rock in fresh ts													
	OTES	_	REI	LATIVE D	ierable fresh ENSITY	condition	CONSISTENCY VS Very Soft		PLE ME	<u>rhod</u> : [_	:Thin w	all s	ample	τ,		DEP		PPER	
			VI L		ry Loose Loose		S Soft M Medium	SP		: (i •	D:Deniso	n sa	mpler))		4	1		v
			M D	N	Medium Dense		St Stiff		JBLE CO		SI	NGLE (COR	E: ■			1	Ť "	cm/cm	CI
F	G≣X		VI		ery Dense		VSt Very Stiff H Hard	Wat	er Sampli	ing:	> "						1	<u> </u>	OWER	

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Tha Pyu Gone Village, Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : A II B

 BOREHOLE NO. : BH-Tha Pyu Gone (Labutta)

 DATE
 : from 243.09
 to 253.09

 ORIENTATION
 : Vertical

 ELEVATION
 : EL

 WATER LEVEL
 : GL - 2.70 m

Т	î		î					(E	<u>a</u>	£		STANDA	RD PI	ENETI	RATIO	N TE	ST	П	SAI	MPLE / EST	Г
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	SOIL NAME	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	ОКРТИ (m)	BLOWS/cm		CURV	E OF B	LOV	v •	-	МЕТНОВ	DEPTH GL - (m)	SCALE (m)
ļ	<u> </u>		F					LVQ.	S.S.	¥	_	A	0	10	20 3	0	40 5	50	_		L
				* × *							1.00	3/30	7						P1		i
				* X							2.00	7/30	I						P2		. 2
				× *						2.70 25.3.09	2.00	-	1								_ 3
				* ^			Very loose to medium dense,			25.5.05		2/30	^						P3		
				× *		6:14	greenish gray, upper portion shows mottled yellowish brown and				4.00	18/30		7					P4		4
				*	greenish gray	Silty SAND	greenish gray, fine grained, slightly Silty to Silty SAND with occassional				5.00	15/30		f					P5		_5
				×			clay patches. Root fragments, and				6.00	10/30	١,	1					P6		6
				* X			decomposed organic matter are observed. Mica flakes contain				7.00	10/30	١,						P7		7
				×			abundently				8.00	7/30	[Р8		8
				× *							9.00	4/30	I						P9		ا. و
		10.00	10.00	* ^ ×					10.0		10.00	2/30	I						P10	_w	10
				* 4					112mm			-	T							ð	11
											11.00	4/30	1						P11		Γ.
				~			Very soft, dark gray, low to medium				12.00	3/30	ļ†						P12		12
				- A	dark gray	Sandy CLAY	plastic, Slightly to Very Sandy CLAY with organic matters and shell				13.00	3/30	ł						P13		13
				×	2.5	CLAI	fragments. Sand content increased downward.				14.00	4/30	Įŧ,						P14		14
				*			downward.				15.00	11/30	\						P15		15
		16.00	6.00								16.00	50/27			\bigcap	\dashv	,		P16		16
				0 9	greenish	Gravelly	Dense to very dense, grenish gray, medium to coarse grained, slightly gravelly SAND with shell				17.00	30/30				\forall			P17		17
		18.00	2.00	0 0	gray	SAND	fragments. The gravel is characterized by fine to medium grained, angular to sub angular in shape.				18.00	-		_	N				P18		18
				^ *	dark	Very	Very soft, dark gray, low plastic,				19.00	13/30	/	7							19
		20.00	2.00	*	gray	Clayey SAND	Very Clayey SAND with organic matters and shell fragments.					3/30							P19		Γ.
_		20.00	2.00	*				1			20.00	3/30	lt.						P20		20
				-				21.50			21.00	4/30	ł						P21		21
				-4	dark		Very soft to soft, dark gray, low	24.3.09			22.00	5/30	1						P22		22
				*	gray	Sandy CLAY					23.00	6/30							P23		23
				*			fragments and mica.		24.0 90mm		24.00	7/30	1						P24		24
	_	25.00	5.00	\- .¥							25.00	5/30	1						P25		25
											26.00	5/30							P26		26
							Soft to firm, light gray with spotted				27.00		I						P27		27
					light	Sandy	yellow, low plastic, Very Sandy CLAY with abundent mica					8/30	ΙĪ								28
					gray	CLAY	fragments and iron oxide nodules. (Residual Soil of bed rock)				28.00	7/30	١,						P28		Γ.
								-			29.00	15/30		1					P29		29
	$\overline{}$	30.00 31.50		77.5	dark gray	Sandy SHALE	Stiff, dark gray, laminated, completely to highly weathered,	31.50			30.00	33/30			•				P30		30
		lC-					sandy SHALE.	25.3.09			31.00										31
w	ock Cla eathered oft rock	d Rock	: Wea	k with slig	htly abun	dant fragmen	Semi hard rock : Rock in almo ents and soil Hard rock : Rock in fresh ts														
šc	oft rock		: Roc	in consid	derable fre	sh condition	CONSISTENCY VS Very Soft		IPLE ME		_ n	:Thin w	rall sr	mnle	τ.		DEF	TH	ŢŢP	PER	
			VI L	. Ve	ery Loose Loose		S Soft M Medium	SP				D:Denise					4	1		COVER	Y
	G=~		M D		dedium Dense		St Stiff VSt Very Stiff		UBLE CO		■ sı	NGLE (CORI	3: ■			K		C	m/cm	-
2 0	G=X		VI) V	ery Dense		H Hard	Wat	er Sampli	ing :	<u> </u>							'	∖ LO	WER	

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Thin Gan Lay Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

-	BOR	ING EQ	UIPM	ENT :	TONE							W	ATE	R LEV	VEL		:	GL	- 1.80		
	î		Æ					<u>a</u>	(E)	(H)		TANDA	RD P	ENETI	RATIO	ON TI	EST		SAI	MPLE / EST	П
<u>(i)</u>	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	RAM	SE SE	SOIL	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	£			CURV	E OF	BLO	w •		ا ا	量金	(E)
SCALE (m)	EVA	DEPT	HCK	DIAGRAM	COLOUR	NAME	2-2-2-2	1.8	INCI	TERI	DKPTH (m)	BLOWS/							SPT-NO	DEPTH GL - (m)	SCALE (m)
	131		F					LVQ	CAS	¥	ā	=	0	10	20	30	40	50	S.		Ш
1				* ×							1.00	2/30							_		1
'				X			Very loose, mottled yellowish brown			1.70		2/30	1						P1		
2				* ×			and bluish gray in upper portion and		1.00 127mm	27.3.09	2.00	4/30	1						P2		2
3				×	bluish gray	Silty SAND	bluish gray in lower portion, fine grained, Silty SAND with root		12/11111	26.3.09	3.00	4/30	П						P3		3
]				* .,			fragments and abundent mica flakes.]	1						P3		F.
4_				X							4.00	2/30	Ť						P4		4
5_		5.30	5.30	^ *							5.00	2/30	I						P5	ď	5
6_		5.50	5.50	¥ - a	bluish	Very	Very soft, bluish gray, low plastic,				6.00	2/30	I								6
"		6.65	1.35	A *	gray	Sandy CLAY	Very Sandy CLAY with organic				0.00	2/30	1						P6		Ľ
7_				ΧĄ			matters and shell fragments.				7.00	5/30	1						P7		7
8_				×							8.00	5/30	H						P8		8
				X								7/30	П								.
9_				×٩X			Loose, bluish gray, fine grained Silty SAND with occassional clay patches.				9.00	//30	†	1					P9		9
10				×	bluish gray	Silty SAND	Thin band of clay layers intercalated				10.00	3/30	4						P10		10
11				====	0.0		within 10.0m to 11.0m. Mica flakes				11.00	6/30	I						P11		11
				×			and shell fragments are abundent.						ΙĪ								F.
12				×							12.00	5/30	۱ŧ						P12		12
13		13.20	6.55	A X							13.00	5/30	I.						P13		13
1 <u>4</u>											14.00	4/30	П						P14		14
								14.50 26.3.09]	I								Γ.
15				-ค-			Soft, bluish gray, low to medium plastic, slightly to very Sandy CLAY	20.3.09			15.00	5/30	١ŧ						P15		15
1 <u>6</u>					bluish gray	Sandy CLAY	with shell fragments and mica flakes.				16.00	4/30	I.						P16		16
1 <u>7</u>							Sand content increased downward.				17.00	6/30	П								17
.]	I						P17		ļ.
18											18.00	4/30	١ŧ						P18		18
19		19.00	5.80	-6-							19.00	8/30	}						P19		19
20				000	bluish	Gravelly	Loose to medium dense, bluish gray,				20.00	16/30		Ν					D20		20
[]		21.60	2.60	000	gray	SAND	fine to coarse grained, Gravelly sand with trace of silt. Shell fragments				20.00]		1					P20		[.]
21				*			and mica contained abundently.				21.00	10/30	Ι.	¥					P21		21
22							Gravels is characterized by rounded to sub rounded and fine to medium				22.00	5/30	1						P22		22
23				·*			grained.				23.00	5/30	П								23
Ĩ.,				¥	bluish		Soft, dark gray to bluish gray, low to				25.00	3,50	1						P23		
24				-	gray to	Slightly Sandy	medium plastic, slightly Sandy CLAY				24.00	6/30	╽┋						P24		24
25				*	dark gray	CLAY	with abundent decomposed wood				25.00	5/30	П						P25		25
1				*			fragments and mica flakes.				26.00	5/30									26
26		26.30	4.70					-			26.00	3/30	١,						P26		-20
27				×			V 4 4' 4 441-4				27.00	9/30	}	¥					P27		27
28				×	mottled yellow	Slightly	Loose to medium dense, mottled yellow and light gray, fine to medium				28.00	13/30		1					P28		28
				×	to light gray	Silty SAND	grained, slitghtly Silty SAND with				20.00	22/20							120		F.
2 <u>9</u>				×	gray		mica flakes.				29.00	23/30			1				P29		_29
30		30.50	4 20	×							30.00	28/30			}				P30		30
31		55.50	1.20					30.50 27.3.09			31.00		L			L					31
		assificat					Semi hard rock : Rock in almo														
So	eathere ft rock ft rock	: 1	: Rocl	k with slig	k with abun htly abunda lerable fresh	nt fragmen															
	OTES	-	REI	ATIVE D		COLUMNION	CONSISTENCY VS Very Soft		PLE ME isturbed	<u>rhod</u> : [:Thin w					DE	<u>PTH</u>	UP	PER	
			VI L		ry Loose Loose		S Soft M Medium	SP		: (D:Denise					-	4		COVER	,
			M D		Medium Dense		St Stiff	DOU	BLE CO	RE:	SI	NGLE	COR	E: ■			4		- ~c	m/cm	.
F0			VI		ery Dense		VSt Very Stiff H Hard	Wat	er Sampli	ing : [9"						- 1	_/	\ LO	WER	

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Zin Pyun Gone Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

Second S	
Very loose to loose, mottled yellowish yello	
Very loose to loose, mottled yellowish yello	GL - (m) SCALE (m)
Very loose to loose, mottled yellowish yello	SCAL
New New	_
Very lose to loose, mottled yellowish brown to gray, slightly Silty SAND with minor amount of ledy and abundent organic fragments with mica 2.00	1
Silly SAND	Γ.
A	_2
P4	3
5.	.w 4
Very soft to soft, bluish gray, lamiinated, medium to high plastic, slightly Sandy CLAY with minor amount of silt and mica flakes. Sand content increase downward. Very soft to soft, bluish gray, lamiinated, medium to high plastic, slightly Sandy CLAY with minor amount of silt and mica flakes. Sand content increase downward. 10 10.60 6.60 11) [.
Very Silty Sandy CLAY with minor amount of silt and mica flakes. Sand content increase downward. Principle P	0 5
Very Silty SAND P10 P11 P11 P12 P13 P14 P15 P15 P16	0 6 80 6
Sandy gray Sandy CLAY with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with minor amount of silt and mica flakes. Sandy clay with minor amount of silt and mica flakes. Sand content increase downward. Sandy clay with mica flakes. Sandy clay	7
amount of silt and mica flakes. Sand content increase downward. 9	
9 9 10 10.60 6.60 10	_8
10.60 6.60	9
10.60 6.60	
12	11
13	Γ.
14	12
14	13
Loose, bluish gray, fine grained very Silty SAND, thinly intercalated with clay layers. Shell fragments and mica flakes contains minor amount. Loose, bluish gray, fine grained very Silty SAND, thinly intercalated with clay layers. Shell fragments and mica flakes contains minor amount. P14 P15 18 18 18 19 19 19 19 19 10 10 10 10 10	 <u>1</u> 4
Silty SAND, thinly intercalated with clay layers. Shell fragments and mica flakes contains minor amount. 15	١.
16 Silvy gray Silvy SAND	15
17.00 5/30 P16 18.00 4/30 P17 19.00 5/30 P18	16
18	 17
19 19.00 5/30 P17	.
P18	18
20 20.00 7/30 P19	19
	20
21 21 21.00 5/30 1 P20	21
21.30 10.70	Γ.
22 22.00 5/30 P21	_22
Soft, bluish gray, medium plastic 23.00 6/30 P22	23
bluish bluish to Very Sandy CLAY thinly to Very Sandy CLAY thinly to Very Sandy CLAY thinly liminated with and layer with all	24
Sandy Similated with Saild layer with Sitt.	Γ.
[2]	_25
26 26.80 4.50 26.80 4.50 26.00 8/30 26.00 8/	26
27 27.00 1.20 Sand Sand Gray Sand Gray Sand Gray Sand Gray Sand Gray Sand Gray Sand Gray Sand Gray Gra	27
shell fragments and mica 28 28 28.00 4/30 P27	28
	1.
29 gray CLAY slightly Sandy Clay with shell 29.00 4/30 P28	_29
30 fragments and mica 30.00 5/30 P29	30
30.50 3.50 30.50 31.00 31.00	31
Rock Classification Semi hard rock : Rock in almost fresh condition	131
Weathered Rock: Weathered rock with abundant fragments and soil Hard rock: Rock in fresh condition Soft rock 1: Rock with slightly abundant fragments Soft rock 2: Rock with slightly abundant fragments Soft rock 2: Rock with slightly abundant fragments	
Soft rock 2 : Rock in considerable fresh condition NOTES RELATIVE DENSITY VS Very Soft CONSISTENCY VS Very Soft Undisturbed :	
VL Very Loose S Soft D:Denison sampler) L Loose M Medium SPT :	
M Medium St Stiff DOUBLE CORE: ■ SINGLE CORE: ■	m
FG=X VD Very Dense VSt Very Stiff Water Sampling :	Ł

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Thar Yar Gone (Ma Khan Pon) Village, Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : TOHO - D2

	=			Т				_		-		TANDA	RD PENET	TO A TE	ON THE	т	SA	MPLE / TEST	\Box
ョ	E E	î	Œ S2	2		SOIL		# 	#	Ē					BLOW		1	TEST	
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	NAME	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	DKPTH (m)	BLOWS / em			22011	•	МЕТНОВ	DEPTH GL - (m)	SCALE (m)
SC	ELE	DE	Ĕ	à	8			VATE	VISV	WATE	DKP	BI O	0 10	20	30 4	10 50	ME	명명	SC
-				*			Loose, yellowish brown and bluish		Ť				T	Ť			П		
1_				×	yellowish brown	Silty	gray, fine to medium grained Silty			1.10		9/30	H				P1		1
2_				* X	& bluish	SAND	SAND to SAND with organic matters and abundent mica fragments.			1.30		10/30]				P2		2
3		3.00	3.00	×	gray	SAND				20.3.0	3.00	1/30					P3		3
.T				¥				1] '	\mathbb{N}				13		ļ.
4_											4.00	10/30	1				P4		L ⁴
5_				×							5.00	11/30	 				P5		_5
6_				::::::X:					6.00		6.00	8/30	4				P6		6
7				*		C:L.	Very loose to loose, bluish gray, fine		112mm		7.00	7/30	I				P7		. - -
				×	bluish	Sity SAND with	grained, Silty SAND laminated with thin band of low to non plastic				_]	7						[.
8_					gray	CLAY lamination	CLAY layers Mica and organic	8.50			8.00	1/30	(P8		8
9_				*		lammadou	matters contain abundently	8,50 19.3.09			9.00	4/30	 				P9	\bigcirc	9
1 <u>0</u>				×							10.00	3/30					P10	$\overline{}$	10
11											11.00	5/30					P11		11
				¥]	1						[.
12				×							12.00	3/30	!				P12		12
13		13.00	10.00	×				-			13.00	7/30	}				P13		_13
14				6							14.00	5/30	4				P14		14
1 <u>5</u>				×							15.00	10/30	I V				P15		 15
				×			Loose to medium dense, greenish				16.00	17/30	$ \ \ $						16
1 <u>6</u>				Ä	greenish gray	Silty SAND	gray, fine grained, silty SAND to SAND with mica fragments and				16.00]	,	\			P16		[.
1 <u>7</u>				×		sand	abundent organic matters especially				17.00	30/30		$ \rangle$	 		P17		17
1 <u>8</u>							shell fragments. Moderate water content.				18.00	18/30	ر ا ا	1			P18		18
1 <u>9</u>				A.							19.00	4/30	/				P19		19
20		20.00	7.00	×							20.00	4/30					P20		20
				×.×. ×.×.				1]	II I						.
21				××××							21.00	3/30	 †				P21		21
2 <u>2</u>				**** ****							22.00	4/30					P22		_22
23				×.x.x							23.00	3/30	4				P23		23
24				××××							24.00	4/30	1				P24		24
25				XXXX	greenish gray	Sandy SILT	Very soft to soft, greenish gray,non to low plastic Very Sandy SILT				25.00	4/30					P25		25
				××× ×××			with shell fragments. Moderate water												[.
26				××××			content.				26.00	5/30	†				P26		26
2 <u>7</u>				xxx xxx				27.50			27.00	4/30					P27		27
28				X X X X				27.50 20.3.09			28.00	5/30	$ \downarrow $				P28		28
29		29.00	9.00	×××							29.00	5/30					P29		 29
				@	bluish	Sandy	Soft, bluish gray, low plastic Very					6/30	I						ļ.
3 <u>0</u>		30.50	2.50	9	gray	CLAY	Sandy CLAY with shell fragments.	30.50 21.3.09			30.00	0/30	•				P30		30
31	lock Cla	neeiffor	lion.				Carltanda - Parti I				31.00								31
v		d Rock	: Wea			ndant fragme													
S	oft rock		: Roc	k in consi	derable fres	n condition	CONSISTENCY		PLE ME		¬ "	r This	all same	or		DEPTE	_	DED	
			VI L		ery Loose Loose		VS Very Soft S Soft	S P	isturbed T		_ գ •	D:Deniso	all sampl n sample	r)		4		PER	
			M D	1	Medium Dense		M Medium St Stiff		JBLE CO	ORE:	■ Si	NGLE (ORE:				_ RE	m/cm	¥
P 1	G=X		VI	D V	ery Dense		VSt Very Stiff H Hard	Wat	er Sampli	ing : (9 "					14	<u> </u>	WER	
																			-

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Shwe Gone Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

	DOIL			ENT :	10.12			_				WA						<u> </u>	- 2.0		
	ĵ.		Œ.					(m) H	(H)	H (m)		TANDAF	_							IPLE / EST	
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	SOIL	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	H (H)	%/ cm		CURV	E OF	BLOV	v •	_	٥	E Î	SCALE (m)
SCA	ELEV.	DEP	THIC	DIAC	700	NAME		NTE &	VSING	ATER	ОКРТН (m)	BLOWS/		10		••			SPT-NO	DEPTH GL - (m)	SCA
+	_			*				Ã	3				0	10	20	30	40	50	\dashv		Н
1_				×						1.20	1.00	3/30	•						P1		1
2_				* *					2.00	2.00	2.00	8/30	1						P2		2
3_				×					12/mm	18.3.09	3.00	7/30	1						P3		3
4_				* *	×						4.00	12/30	7								[. _4
				×									/	•					P4		ļ.
5_											5.00	2/30	(P5		_5
6_				×							6.00	10/30							P6		_6
7_				×							7.00	5/30	4						P7	ď	7
8_				×	yellowish	Slightly	Very loose to medium dense,				8.00	12/30	'	•					P8		8
9_				×	brown, bluish	Silty SAND	yellowish brown, bluish gray and dark gray, fine grained, slightly silty				9.00	6/30	1						Р9		ا و
1 <u>0</u>				×	gray and	to SAND	SAND to SAND with abundent mica				10.00	11/30	1						P10		10
11				×	dark gray		fragments. Organic matters contain at upper portion up to 5.0m. 0.5m in				11.00	15/30		$\lceil \rceil$							11
				X			thickness of soft clay layer is							1					P11		[.
1 <u>2</u>				×			intercalated at 5.00m to 5.50m.				12.00	16/30		<i>/</i>					P12		<u>1</u> 2
13				X							13.00	6/30	1	1					P13		13
1 <u>4</u>				×							14.00	9/30	1						P14		14
15				X				16.00			15.00	10/30							P15		<u>1</u> 5
1 <u>6</u>				×				16.00 17.3.09			16.00	8/30	-						P16		16
1 <u>7</u>				X							17.00	8/30							P17		 17
1 <u>8</u>				×							18.00	7/30	Ι						P18		 18
19		11.00	4.00	×							19.00	9/30	Ī								19
				××				1			-		1						P19		[.
2 <u>0</u>				$_{x}^{\times}$							20.00	7/30	1						P20		20
2 <u>1</u>				XX							21.00	8/30	Ì					1	P21		21
2 <u>2</u>				×^×							22.00	7/30	ł						P22		22
23				×××							23.00	6/30	ļ						P23		23
24				X.X	bluish	Slightly	Soft, bluish gray, low to medium plastic, slightly to very sandy SILT				24.00	5/30	1					,	P24		24
2 <u>5</u>				×××	gray	to Very Sandy SILT	with minor amount of clay. The sand				25.00	7/30	1						P25		25
2 <u>6</u>				××		SILI	content decrease downward and its plasticity increase downward. Mica				26.00	6/30							P26		 26
27				X.X.			minerals are abundent.				-	8/30	Ī								27
				XX							27.00		1						P27		[.
28				×××							28.00	6/30	1						P28		_28
2 <u>9</u>				×××							29.00	8/30	}						P29		_29
30		30.50	7.50	×××				30.50			30.00	7/30	1						P30		30
31								17.3.09	1		31.00										31
We	athere	d Rock	: Wea				Semi hard rock : Rock in almo ents and soil Hard rock : Rock in fresh														
So	ft rock ft rock		: Roc	k in consid	htly abunda ierable fresh	nt fragmen condition	CONSISTENCY		PLE ME					_			DE	РТН			
NO	<u>TES</u>		REI VI L		ENSITY ery Loose Loose		VS Very Soft S Soft	Und S P '	isturbed r	: [_	:Thin w D:Deniso	all sa n sau	ample mpler)	r,)		L	4		PER	
			M D	N	Loose Medium Dense		M Medium St Stiff		JBLE CO	DRE:	■ SI	NGLE C	ORI	E: ■			4	4	RE	n/cm	¥
FC	€		VI		ery Dense		VSt Very Stiff H Hard	Wat	er Sampli	ing :	9 "						1	Υ,	\ LO	WER	

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION :Kwa Kwa Lay Village, Laputta Township Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : A2B

	BORI	ING EQ	UIPM	ENT :	A2B							WA	TER	LEV	EL		:	GL -			
	£		Æ					(B)	<u>a</u>	(E)		TANDAI	RD PE	ENETR	ATIO	N TES	T	\Box		IPLE / EST	П
(E)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	M.	SOIL	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	£	8	Ľ	CURVI	E OF	BLOW	•	_		並 含	(E)
SCALE (m)	EVA	DEPT	IICK	DIAG	COLOUR	NAME		18	INCI	TERI	DKPTH (m)	BLOWS / cm							SPT-N0	DEPTH GL - (m)	SCALE (m)
Ш	III		F					DAT	CAS	¥.	ā	Ä	0	10 2	20 :	30 4	10 5	50	S		
				¥ X							1.00	7/30	l,						_		ŀ;
1_				×		Silty	Loose to medium dense, mottled			1.3 19.3.09	1.00	//30	١,					- -	P1		1
2				* X	greenish gray	SAND	yellowish brown and greenish gray, fine graind Silty SAND, with mica				2.00	11/30		\				:	P2		2
3				× *			and organic matter				3.00	17/30		$ \chi $					P3		3
]				*									؍					- [13		[.
4	-	4.00	4.00	Ψ				-			4.00	2/30	\langle					:	P4		4
5_				CTT#							5.00	6/30	1						P5		5
6_				A							6.00	3/30	I						_		. 6
"				AF			Marriand to soft amountable array to				0.00	3/30	Ť						P6		Ľ
7_				· 6-	greenish		Very soft to soft, greenish gray to dark gray, low plastic, slightly to				7.00	3/30	ļ						P7		7
8_				A	gray to	Sandy	very Sandy CLAY intercalated with				8.00	2/30							P8		8
				¥	dark gray	CLAY	Sand layers. Sand content increased downward. Shell fragments and														.
9_					0,		decomposed wood fragments contain				9.00	2/30	†					-	P9	_w	9
10				*			abundently.		10.00 112 mm		10.00	4/30	ļ						PIO	ď	10
11				e- ₩					112 1111	1	11.00	6/30						-	P11		11
				A									1					-	PII		Γ.
12				TUTLTAT							12.00	3/30	•]	P12		12
13		13.00	9.00	0a0 7%							13.00	10/30	}	.]	P13		13
1 <u>4</u>				× ×							14.00	16/30		Ν				Ι,	P14		14
[.]				××							14.00	10,50		*				ľ	``]		
1 <u>5</u>								15.0 m 18.3.09	-		15.00	10/30	١,	K				1	P15		15
1 <u>6</u>				×××							16.00	5/30	1					1	P16		16
				××	dark		Loose to medium dense, fine to					1670	\	LΙ							.
17				9	gray and	Silty	medium graind, silty SAND with				17.00	16/30		*]	P17		17
18					greenish	SAND	clay patches, including mica flakes, decayed woods and shell fragments.				18.00	9/30	١,	1]	P18		18
19				××	gray		decayed woods and shell fragments.				19.00	12/30	'	7					P19		19
				*										N				ľ	``1		-
2 <u>0</u>				××							20.00	20/30		}	٠]	P20		20
21				*							21.00	20/30		ار ا	,]	P21		21
22		22.00	9.00	я							22.00	6/30	ر ا	I					P22		22
.				×××]					I					ľ			F.
23				X X X							23.00	7/30	†					1	P23		23
24				X X X			Soft to firm, dark gray, low plastic,				24.00	6/30						1	P24		24
25				× × ×	dark gray	Sandy SILT	slightly Sandy to Sandy SILT with trace of clay patches. Shell fragments				25.00	5/30	П						P25		25
.				Ĵ×ĜŶ.			and mica flakes are observed.						1					ľ			ļ.
26				ŶŶ.							26.00	7/30	 ₹					1	P26		26
27				XX.							27.00	5/30		N				1	P27		27
28		28.00	6.00	×××							28.00	14/30		/					D20		28
ΙŢ		25.00	5.50	A			GaA dada aman lara dada Garata	1			-			/					P28		[.
2 <u>9</u>					dark	sandy	Soft, dark gray, low plastic, Sandy CLAY with mica flakes and shell				29.00	8/30	4					1	P29		_29
30				•	gray	CLAY	fragments.				30.00	7/30	1						P30		30
31		30.50	2.50					30.50 19.3.09	-		31.00							ľ	1		31
	ock Cla	assificat	ion				Semi hard rock : Rock in almo				121.00			Щ							21
S	eathere	d Rock	: Wea	k with slig	htly abund	lant fragmer	nents and soil Hard rock : Rock in fresh														
S	oft rock		: Rocl	in consid	derable fre	sh condition	CONSISTENCY		IPLE ME			VThis -	n]1	1-			DEF	тн	UPE	DEP	
	- I		VI	. V	ery Loose		VS Very Soft S Soft		isturbed		_	:Thin w D:Deniso	on san	npler)	•		4	1			
	*		L M	N	Loose Medium		M Medium St Stiff	S P	T UBLE CO	ORE:	■ SI	NGLE (CORF	3: ■			/	+	REC	OVER	¥
[G≘X		D VI		Dense ery Dense		VSt Very Stiff H Hard		er Sampli		= ™			-			7	1	LO	WER	
ı "	- AEN						1100			(_										- 1

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION :Yea Kyaw Wa Village, Laputta Township

BORING METHOD : Rotary

BORING EQUIPMENT : A2B

	BORI	ING EQ	UIPM	ENT :	AZB							WA	TEF	R LEV	EL		:	GL -			
	î		â					<u>a</u>	(E)	ĵ.	s	TANDA	RD PE	ENETR	ATIC	ON TE	ST		SAN	MPLE / EST	П
SCALE (m)	ELEVATION (m)	DEPTH (m)	THICKNESS (m)	DIAGRAM	COLOUR	SOIL NAME	DESCRIPTION	DATE & DEPTH (m)	CASING DEPTH (m)	WATER DEPTH (m)	DRFTH (m)	BLOWS / cm		CURVI				50	METHOD	DEPTH GL - (m)	SCALE (m)
1_				× × × × × × × × × × × × × × × × × × ×	Dark Gray	SILT / CLAY	Very soft, mottled yellowish brown and dark gray, low plastic, sandy SILT/CLAY with root fragments and		2.00 112mm	1.1m 14.3.09	2.00	1/30	Ī						P1 P2		 1 2
3		4.00	4.00	^x=== x· ===			decay wood fragments.	-	11211111		3.00							ı		3.00m	3
4_ 5_				*							5.00	7/30	١							3.8m 80/80	_4 5
6_				*							6.00	11/30							P4 P5		_3 _6
7_				¥	Dark Gray	SAND	Loose to medium dense, dark gray, fine grained SAND with trace of silt and clay. Abundent decay wood	6.50			7.00	6/30	{						P6		2
8_ 9				*			fragments and mica flakes are observed.				9.00	9/30	1						P7		 9
10				¥							10.00	7/30	↓	<i>†</i>					P8 P9		10
11		11.00	8.00	*				-			11.00	6/30	1					1	P10		11
1 <u>2</u>					Dark Gray	Clayey SAND	Loose, dark gray, fine graind Clayey SAND, with micas and shell				12.00	6/30 2/30	<i>†</i>						P11		_12 _13
14		14.00	3.00				fragments.				14.00	10/30	\						P12		14
1 <u>5</u>				×××							15.00	9/30						1	P14		15 15
1 <u>6</u>				× ×							16.00 17.00	8/30 9/30	1						P15		16 17
18				* ×	greenish	Silty	Loose to medium dense, greenish gray, fine to medium grained, Silty				18.00	7/30	Į						P17		 18
19				Ж Х	Gray	SAND	SAND with clay patches. Mica fragments, shell fragments and organic matter contained abundently.				19.00	10/30	١)						P18		<u>1</u> 9
2 <u>0</u>				^¥ ×			organic matter contained abundentry.				20.00	15/30 5/30	/						P19		_20 _21
2 <u>2</u>				A X				15.3.09 21.50			22.00	8/30	\						P22		. <u>.</u> 22
23		23.00	9.00	× ,				-			23.00	5/30	f						P23		_23 24
2 <u>4</u> 2 <u>5</u>				A							25.00	5/30	ļ						P24 P25		25
2 <u>6</u>				- A			Soft, bluish gray, medium plastic,				26.00	6/30	}					1	P26		 26
2 <u>7</u> 2 <u>8</u>				A	bluish Gray	Sandy CLAY	slightly Sandy CLAY with shell fragments and mica flakes.				27.00	5/30	t						P27		_27 28
2 <u>9</u>				A							29.00	7/30	Ţ						P28 P29		
30		30.50	7.50	2.19				16.3.09 30.00			30.00	4/30	Į						P30		30
		assificat				I	Semi hard rock : Rock in almo	est fresh co	ndition		31.00			ш		Ш					31
S	eathere oft rock oft rock OTES		: Roc	k with slig k in consid LATIVE D	htly abund derable free ENSITY ery Loose	indant fragn dant fragmer sh condition	nents and soil Hard rock : Rock in fresh	sam Sam Und	PLE MET	<u>гнор</u> : [⊐ գ	:Thin w D:Deniso	all sa	ampler mpler)			<u>DE</u>	<u>PTH</u>	. UP	PER	
	-		L M	N	Loose Medium		M Medium St Stiff	SP	r JBLE CO	: DRF·	● ■ gr	NGLE C	Opi	R: ■				4	RE	COVERY m/cm	¥
[·	G=X		D VI		Dense ery Dense		VSt Very Stiff H Hard		er Sampli] " "		- OIG				r	4	LO	WER	