SHEET 1 OF 2

				FIN	AL BOREHOLE LOG		an	<			ov	OF	TE	ст	D	Ee		HEE	1	1	OF		2
PRO	IEC	T· I	Dani		larikina River Channel Imp.	and the second s	1000	G	ROUND	ELE	V.		and the second second		1		OL IOF V		D.		BL -	5	a
LOCAT		1.1							MLLW = 2 STATION			n) <u>+ 1</u> 9 + 1		0			MEAS					200	<u>0</u>
		-			ik, Lambingan Br., Sta. Ana, M		_		NEATHE			FA	IR		-	ME	MEAS	URE	D:	2:0	00 P	M	
BH NO		-			E DRILLED: 21 - 22 November	T		-	OORDIN	IATE	S: _	161	1320	0.72	-		I ,	1	019	-			E
EN	57 (%	SYMBOL	ATIO				LOWS (SPT)		5	STAN	DARD		SIST %		LIM	RBERG		COMP			ASSIN		
DEPTH, m SAMPLE NO.	RECOVERY (%)	LOG SYI	CLASSIFICATION	RaD	DESCRIPTION	15 cm	15 cm	15 ;m	-	(SF		EST 50	NATURAL MOIST. CONTENT, %	TOTAL UI WEIGHT,	LIQUID %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN E, %	4	10	40	20
1 SS-1 2 SS-2 3 SS-3 4 SS-4 4 SS-4 4 SS-4 6 SS-6 5 SS-5 6 SS-6 7 SS-7 10 10 8 SS-8 9 SS-9 9 SS-9 10 SS-10			сн		Sandy CLAY; grayish brown; 47% medium to high plasticity clayey fines; 29% fine to coarse sand; 24% gravel; SOFT To FIRM.	3	5	3					24		59	33	2.64			76	68	58	4
3 SS-3		X	SM		Silty Fine SAND ; dark gray; 72% fine sand; 11% medium sand; 14% non-plastic silt; LOOSE.		3	6					30				2.63			99	97	86	1.
		Ň:																					Γ
5 SS-5			SP		Fine to Medium SAND; dark gay; 73% fine to medium sand; 13% non-plastic silt; 8% coarse		3																
58-7	67				sand and 6% gravel; LOOSE TO MEDIUM DENSE.	3	5	7					23				2.63			94	86	62	1:
8 SS-8					Crouelly SAND, dark many COO/	1	3			>													
E	67		sw		Gravelly SAND; dark gray; 68% well-graded sand; 29% gravel; very little fines; MEDIUM DENSE.	10	10	12					14				2.64			_71	45	15	3
E- 11 SS-1	1 67		-	-		7	11	11															╞
11 SS-11 12 SS-12 13 UDS- 14 SS-13 14 SS-13 14 SS-13 16 SS-14 17 SS-14 17 SS-14 17 SS-14 18 SS-17 19 CR-1 20 CR-1						2												Cc 0.970	Pc 0.830				
-13 UDS-			сн		Silty CLAY; dark gray; 88-91% very high plasticity clay with about 9% fine to coarse sand and traces		ESSE 3						91	1.34	81	52	2.60	0.16	8.00	97	92	91	8
15 SS-1					of gravel and shell fragments; FIRM TO VERY STIFF towards the bottom layer.	3	2	2															
16 SS-11					Silty CLAY (same as above) VERY STIFF	2	2	3	\square	/			93		80	45	2.60			100	99	97	9
18 SS-1	7 67		SM		Silty SAND; dark gray; fine to coarse sand with shell fragments and non- plastic silt; DENSE.	11	13	25						_									
19 CR-1			ST	15 23	SILTSTONE; brown; fine grained; moderately cemented; broken core; HARD.		RIN						31	1.62				46.14	1.48				
		M 2r	AN/	GE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, labini St., Ermita, Manila Figure 5-3-3 (16/221)	CH	INE ER: RVI:	sc	DR:	R. M.	ANE Esta	ura		_			UI CI	S - SP /S - W/ DS - U R - CC // HYD	LIT SP ASH SJ NDIST RE SA	AMPL URBE	.e Ed Sa E	MPLE	E

Figure 5-3-3 (16/221) BORING LOGS (PHASEI)

SHEET 2 OF 2

					FII	NAL BOREHOLE L	.0G	A	NC) :	SU	M	I AF	RY	OF	TE	ST	R	ES	UL	TS		E	BL ·	- 5b
PF	80 J	EC	T: _	Pas		larikina River Channel				T	GRC	UND	ELE	V.	n) _ +			-			WATE	-	4	1.00	
LO	CAT	ION	: _	Left	Bai	nk, Lambingan Br., Sta.	Ana, I	Mla	<u>a.</u>			TION ATHI	NO.	:	9+ FA						SURE			10v.	2000
BH	NO:			-	DATI	E DRILLED: 21 - 22 Nov	ember	20	00	-			NATE	S: _		1320	0.72	_		N,		5019			
Ε	Ŋ.	(%) /	BOL	ATION					SLOV (SP1							ST.	. 8	ATTE	RBERG		UNCO	NFINED	SIE % P	VE A	NALYSIS
DEPTH, m	SAMPLE NO	VER	SYMBOL	SIFIC/	RQD	DESCRIPTION	1	15	15	15	1		STAND ETRATI (SP	ION T	EST	AL MOI	HT, g/	~*	È\$	SPECIFIC GRAVITY					
B	SAN	RECOVERY (%)	LOG (CLASSIFICATION					cm				(N-VAL			NATURAL MOIST. CONTENT, %	VEIG	LIMIT.	PLASTICITY	SP	STRENGTH kg/cm ²	STRAIN Z. %	4	10	40 2
IIII						SILTSTONE; brown; fine-g	rainad	+	\vdash		-	10 2	0 30	40	50	-					S S S S S S S S S S S S S S S S S S S				
21 22 23 24 24 25 26 26 27 29 29 29 29 29 29 20 29	CR-3	44		33	0	moderately cemented; broken core;	HARD.	co	RI	NG															
ահա						End of Boring (21.00 m)																			
1 22																									
23																									
սհո																									
24																									
25																									
26																									
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31 32 32 33 34 35 36 37 38 39 40																									
dun																									
38																									
39																									
40																									
E		-1	BA	SIC	; TE	CHNOLOGY AND	MAC		NF								LE	GEN	D:						
	7[MA	NAG	GEN	ENT CORPORATION Prudential Bank Building,	DRIL			-			R. A			÷		X			- SPLI			AMPLI	E
	11	17	137	7 A.	Ma	bini St., Ermita, Manila	SUP												11	UD	S-UN	DISTU E SAM	RBEC		
		a second second			and and a special	Figure 5-3-3 (17/2)		*		W/	HYDR	OMETE	ERAN	IALYS	IS

SHEET 1 OF 1

PR	OJ	EC	T: _	Pasi	ig-N	larikina River Channel Imp	. Pr	oj.					um) _+	12.92	23					R:			
0	CAT	ON	: 1	eft	Bar	k, Mabini St., Poblacion M	aka	ŧi	1	STATIC	ON NO		12 +	955						D: <u>2</u>			
RH	NO:	B				DRILLED: _22 - 23 Nov. 2				OORE		E0.	F A	I R 1116	2 4 4	1				D:			M
1		_	-	-				BLOV	vs			<u> </u>	10	1	}	ATTER	N	·	1	FINED		VE AI	
E .	No	RY (9	\$YMBOL	CATI			-	(SP			STAN	DAR		NOIST. %	Doloc gloc	LIN	ITS	¦≌≻	COMP	TEST		ASSIN	
DEFIT, M	SAMPLE NO.	RECOVERY (%)	LOG \$Y	CLASSIFICATION	RaD	DESCRIPTION		15 cm			(S) (N-V)	PT> ALUE))	NATURAL	TOTAL UNIT WEIGHT, g/cc	LIQUID LIMIT, %	PLASTIGITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN Z. %	4	10	40
1 2 3 4 5 6 7 8 9 10							1	T			20 3		0 50	\uparrow									
1	SS-1	67				Sandy CLAY; brown to dark gray; 59% medium to high plasticity clay		8	8		/			35		52	28	2.62			100	97	90
2	SS-2	78	\mathcal{V}	СН		with 31% fine sand and 10% medium to coarse sand; FIRM To		3	2	Å													
				1		VERY STIFF.																	
3	SS-3	78	XIII					5	5					-									
4	SS-4	67		GM		Sandy GRAVEL; dark gray; 49% sub-angular gravel with 31% fine	15	5 50				/		38				2.63			51	43	33
			ATT.			to coarse sand and 20% non- plastic silt; DENSE.								1.00									
5	SS-5	78		-				5 50						-									
6	CR-1	100			100		C	<u>ØRI</u>	NG					-	-								
	CR-2	100			100		с		NG														
1			Ĩ.			lenilli THEE, light brown to wellow in b																	
	CR-3	100		LT	100	Lapilli TUFF; light brown to yellowish brown; medium to coarse grained;		<u>ØRI</u>	NG					-		-							
	CR-4	100			100	well cemented; solid cores; VERY HARD.			NG					24	1.77			4	18.50	1.44			
9																							
10	CR-5	100			100		c	<u>ØRI</u>	NG					\vdash									
	CR-6	100			100		с	QRI	NG														
11						End of Boring (10.55 m)																	
12																							
3																							
14																							
15																							
																				*1			
6																							
7																							
18																							
11 12 13 14 15 16 17 18 19 20																							
20			B	1SI	СТ		ACH		L F·		ACK	EP	ACE	<u> </u>		EGEN	ND:						
20			_				1011	1141	_ ··		AUN		AUE		-			SS	S - SPL	IT SPO			E
20	7.		M			MENT CORPORATION DF	RILL	ER			I. A	ND	OYO			D	X			SHSA			LC

SHEET	1	OF	1
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	0.11	EC	т٠	Dec			AL BOREHOLE LOG				GROUN	DEL	EV.	10000				T		OF		R.	-	3L -	-
				Pas			arikina River Channel Imp.		oj.	(MLLW	= Zer	o Dat		+ 1		5			MEAS					
	CAT		-				Bank, West Rembo, Makat			1	NEATI				AI			Т	ME	MEAS	URE	D:	7:3	30 A	١M
3H	NO:	-		-	-	TE	DRILLED: 22 - 23 Nov. 2	000		c	OORD	INAT	ES:		161	099	5.76	52	N	I,	5	055	72.4	121	
=	ò	(%)	B	TIO					(SP			CTA	NDAR			IST %	F 8		RBERG NITS		COMP	FINED			NALY: NG SI
חברוח, ווו	SAMPLE NO.	RECOVERY (LOG SYMBOL	CLASSIFICATION			DESCRIPTION	15 cm			PE	NETR (ATION SPT)	TES	r	NATURAL MOIST CONTENT, %	TOTAL UNIT WEIGHT, g/cc	LIQUID %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN Z, %	4	10	40
	SS-1	2L 55		SN	1	+	Slity SAND; dark brown; 43% fine to coarse sand; 23% gravel; 34% non-plastic silt; MEDIUM DENSE.	5	10	7	10		30 4	•	0	18			<u></u> =	2.64	ίο Ι		77	67	51
1 2 3 4 5 6 7 8 9 10	SS-2	11	X					50				1								2.04				07	- 51
2	SS-3	11					Tuffaceous SANDSTONE; light to dark brown; fine to medium grained,	50	1																
4	CR-1	100		TS	8	0	moderately cemented; broken cores; HARD.	c		NG															-
5	CR-2	30			2	0		c		NG															
	CR-3 SS-4	25 44				0	Gravelly SAND; dark brown; about		0R	NG															
6	CR-4	71			4	7	50% coarse sand with 40% sub- angular gravel; VERY DENSE.	<u> c</u>	OR	NG															
8	CR-5	90		•	8	5		c	OR	NG															
9	CR-6	90	611		8	0		c	OR	NG						24	1.73				44.82	2.35			
	CR-7	91		т		2	Tuffaceous SANDSTONE; dark brown to yellowish brown; medium to coarse grained; well cemented; moderately fractured cores; VERY	c	OR	NG															
11	CR-8	30			2		HARD to HARD.	c	OR	NG															
13																									
14	CR-9	70			4	7		c		NG															
15	CR-10	25			1	2	End of Borehole (15.36 m)	c	OR	NG		-													
- 11 - 12 - 12 - 13 - 13 - 13 - 14 - 15 - 14 - 15 - 17 - 18 - 19 - 19 																	}								
19 20																									
F		-1							IIN	E:		AC	KE	RA	CE		T	EGE	ND:	 -	e			C 41-47	
L		ĹЦ	2	nd I	Flor	or	Prudential Bank Building,				DR:						-			v U	S - SP /S - W DS - U R - CC	ASH S	AMPL	.E ED S/	

SHEET	1	OF	- 1

																			1.1.1		-	SHEE	T	1	0		1
	01	EC	т.	-		1000	NAL BOREHOLE LOG	10000	-	T	GRC	UND	EL	EV	100000000		110000		T		-			-	BL -	. 8	
							larikina River Channel Imp.			1	(MLL	W =	Zero	Dat		+7		0				WATE SURE			8.50 ec.	200	-
	CAT						nk, Napindan Flood Gate, P			1		ATH		·		0 + 4 A I			L			URE			σσ		_
BH	NO:	T		8	-	ATI	DRILLED: 10 December 2	-		-	:00	RDI	VATI	ES:		1610	157	7.68	7	N	I,	5	075	38.1	111		_
E	9 V	(%)	ш		ATIO				(SP1		Ì		STAN	DAD			1.28	- 8	ATTER	RBERG	ł	COMP			EVE A		
DEPTH, m	SAMPLE NO.	RECOVERY	SAMPLE		CLASSIFICATION	RaD	DESCRIPTION	t5 cm	15 cm		1	PEN	etra (S	TION PT> ALUE	TEST		CONTENT,	VEIGHT, g/cc	LIQUID %	PLASTIGITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN E. %	4	10	40	
1 2 3 4 5 6 7 7 8 7 9 10	SS-1 SS-2	89		•••	sw		Gravelly SAND ; gray; 50-69% well graded sand with 29-47% gravel; very little fines; LOOSE to MEDIUM DENSE.	1	5	4		/					12				2.64			71	_46_	12	
- 3	SS-3	89			ML		Clayey SILT; brownish gray; low plasticity silt with fine sand and traces of gravel; VERY STIFF.	11				\int				-	9	_			2.65			53	31	12	
- 4	SS-4	78		7			and a grate, that other.	4	7	11	1					F	-										
- 5	SS-5 SS-6	89 89					Sandy CLAY; grayish brown; 60 -		8								40	_			2.64			91	78	67	
-7	SS-7	89			сн		86% medium to high plasticity clay with 14 - 31% fine to coarse sand and traces of gravel; VERY STIFF.		7																		
- 8	SS-8	89						7	9	8						-	_										
- 9 - 10	SS-9 SS-10	89 78	X						8							ŀ	29		56	29	2.61		_	100	99	97	
- 1	SS-11	78			SM		Silty SAND; brown; 63% very fine sand with 15% non-plastic silty fines; 16% medium sand and 5% gravel; MEDIUM DENSE To		12																		
-12	SS-12	78	X				DENSE.	9	13	20						-	29				2.64			95	94	78	-
-13	SS-13				_			Ι	16]					F	_	_									
-14	CR-1 CR-2	20			ST	0	SANDSTONE; brown; fine grained; generally broken; HARD.	Γ	RI							-											-
- 11 - 12 - 12 - 13 - 14 - 15 - 14 - 15 - 16 17 18 18 19 - 20							End of Borehole (15.00 m)																				
-18														-													
19																											
F		-1						СН	INI	E:	·		AC	KEF	R AC	E I			EGE		S	S - SPL	IT SP		SAMP	1.F	
Ŀ		Пγ	2	nd	I FI	oor	MENT CORPORATION Prudential Bank Building, abini St., Ermita, Manila Figure 5-3-3 (20/221)	PEI	RV	ISC	OR	:	M.	Est	DER	a					W UI CI	S - WA DS - UA R - CO / HYDA	SH SANDIST	URBE	e Ed Sa	MPLI	-

SHEET 1 OF 2

						FIN	AL BOREHOLE LO	G		J		SLIM	MΔ	PV				ет	D	Ee	-	SHE		1	0		2
PROJ	JE	C	T:	Pa			arikina River Channel I		1.0		(GROUN	DEL	EV.					T	-	1000		R:	No. of Concession, Name	3L -	-	m
LOCAT							ank, Vargas Bridge, Pasi			<u>ŋ</u> .	1 2	(MLLW STATIC						86					:D:				
BHNO			-				DRILLED: 12 - 14 Noven	-		0		WEAT				AIR		4 7	_				D:		2:00	NN	_
T	-	_		-	-				в	LON	s	OORD	INAI	ES:		1611	1		ATTER	RBERG	1,	T	NFINED	1	EVE A		E
DEPTH, m SAMPLE NO.		RECOVERY (%)	LOG SYMBOL		CLASSIFICATION	RaD	DESCRIPTION		15 cm	SPT 15 cm) 15 cm	PE	NETR/	NDAR ATION SPT)		r i	CONTENT, %	OTAL UNIT EIGHT, g/cc		PLASTICITY STI	SPECIFIC GRAVITY	COMF	P. TEST	% F	PASSIN	NG SI	EVE
SAD		REC			CLA							10	(N-V 20 ;				δQ	- 2		PLAS		STRE kg/	STRAIN A. %	4	10	40	20
1 SS-1	1	33	X	•	ЭM		Sandy GRAVEL; brown to gray; 37% angular gravel;33% fine to coarse s 30% non-plastic fines; VERY DENS	and;	4	9	50						17				2.63			63	52	44	1
	2	33		s	w		Fine To Coarse SAND; give well-graded with some gra	ray; vel;	5	3	2		ł	-													
- 3 SS-3	3	33			_		LOOSE.		2	4	2					-	_										
4 SS-4	4	33			w		Gravelly SAND; gay; 46% w graded sand with 40% s angular gravel; 14% non-pla	ub-	2	1	1					-	14				2.64			60	47	28	+
1 SS-1 2 SS-2 3 SS-3 4 SS-4 5 SS-5 6 SS-6 7 SS-7 8 SS-8 9 SS-9 10 UDS-1	5	67	X	G	w		silty fines; VERY LOOSE MEDIUM DENSE.		4	9	2					F											
_ 6 SS-6	6	33	X	+			Gravelly SAND; dark gray; 6 coarse to medium sand; 2	9% 8%		2		$ \langle \rangle$				ŀ											-
-7 SS-7	8 .	44	X	S	w		gravel; with little amount of n plastic silt; MEDIUM DENSE LOOSE.	non-		11	4		P			Ī	11				2.63			72	35	3	
- 9 SS-9	9 1	100							4	2	2																
- 10 UDS-1	1	100							PR	ESS	ED						39	<u>1.73</u>	71	47	2.61		Pc 1.930 14.25	1 1	93	83	-
- ₁₁ SS-10	0	100	E						2	2	2						48		63	39	2.60	Cc	Pc	99	98	98	
-12 UDS-2	2 1	00		10	ж				PR	ESS	ED						50	<u>1.62</u>	67	38	2.60	0.625 0.86			100	99	
-13 SS-11	1 1		E				Silty CLAY; dark gray; 76-9 very high plasticity clay with I amount of very fine sand; FIR	ittle	Π	3												Cc 1.060	Pc 2.170				
-14 005-3 - -15 SS-12	2 1	00		1					<u>Р</u> К 3	2 2	2						00	1.52	_/1	44	2.60			100	91	90	
- -16 SS-13	3 1	00							4	2	2						77		74	50	2.61			100	98	95	-
- -17 SS-14	4	00							3	2	2					-											
-18 SS-15	5 1	00							3	3	3						_										$\left \right $
- 11 SS-10 	6 1	00 67		G	w		Sandy GRAVEL; dark gray; angular gr with coarse to medium sand; (Tufface Sandstone); VERY DENSE.	avel eous	2 50, 10	3	3		-	1			51		64	37	2.61				100	98	8
			N 21	IAI nd	NA Fic	GEI por	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building,	-	LLE PEF	ER RVI	so	 DR:	M.	D/ Est	AWI	a		- - -		ND:	W UI CI	/S - W/ DS - U R - CC	LIT SP ASH S/ NDIST ORE SA ROME	AMPL URBE	e Ed Sa E	MPLE	

SHEET 2 OF 2

					FII	NAL BOREHOLE L	.OG	A	NE)	SU	MN	AF	۲Y	OF	TE	ST	R	ES	UL.	TS		E	3L -		b
PF	SOL	EC	T: _	Pas		larikina River Channel				T	GRC	UND	ELE	V.	n) _ +			-	1000	OF		R:	().75		_ m
LC	CAT	ION	: _	L	eft E	ank, Vargas Bridge, Pa	sig Ci	ty			STA	TION	NO.		1+	325				MEAS						
BH	I NO:	В	L-9			E DRILLED: 12 - 14 Nove			00	-		RDIN	R:	S:		1103	1.7	_		MEAS		5078	-	-	NN	E
6	<u>o</u>	(%)	SOL.	TION					SLOV	NS		********				L.			RBERG		UNCO	NFINED	SIE	EVE A		SIS
DEPTH, m	SAMPLE NO	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	ı	15 cm				PENE	STAND TRATI (SP (N-VAL 0 30	ION TE T) LUE)		NATURAL MOIST CONTENT %	TOTAL UNIT WEIGHT, gloc	LIMIT. %	PLASTICITY INDEX %	SPECIFIC GRAVITY			4	10		
uniter 21	CR-1	50		TS	48	Tuffaceous SANDSTONE; gray; medium to coarse gra well-cemented; HARD.	dark ained;	00	R	NG																
$\frac{1}{2}$	CR-2	50			46	End of Boring (22.00 m)		CC	RI	NG																
alun 38	3		MA 2nd	I FI	GEI	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building, abini St., Ermita, Manila	MAC DRII SUP	LE	ER	: _	DR:		R. C	DAV			- L	EGEN	<	W	5 - WA S - UN	IT SPO SH SA IDISTU RE SAI	MPLE JRBE	E D SAN		

Figure 5-3-3 (22/221) BORING LOGS (PHASEI)

_							AL BOREHOLE L	and the second second	10000		-	-		-	1000	0	F '	TE	ST	-						<u>- 12</u>	1	0
				P	asi	g-N	larikina River Channel	Imp.	Pre	oj.	1	(MLL		Zero	Dat		+ 1		31				WATE SURE			6.70	200	. "
	CAT						nk, Antonio Dr., Maybung			_	(ATH).: _		3 + 2 FAI						URE					
BH	NO:	-		10	-	AT	DRILLED: 11 - 14 Nove	mber	200	00	. C	00	RDI	VAT	ES:		161		0.6	1	N	I,	5	087	77.1	81		E
E	NO.	(%) X	щ	BOL	ATIO					(SP		Ì		STAN		n	Ì	NST.	100	1 18.4	RBERG		COMP	TEST		VE AN ASSIN		
DEPTH, m	SAMPLE	RECOVERY (%)	SAMPL	LOG \$YMBOL	CLASSIFICATION	RaD	DESCRIPTION				15 cm		PEN	etra (S	TION PT> ALUE	TEST		NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN A. %	4	10	40	2
- 1 - 2 - 3 4 5 7 7 7 7 8 9 9	SS-1	67	X		sw		Gravefly SAND; light brown; well-graded sand; 24% gravel; non-plastic fines; MEDIUM DE	10%	14	15	8						/	33				2.64			76	54	27	
2	SS-2	33	X	0.					1	1	0	1	ľ															
3	SS-3	44	X)			Sandy GRAVEL; brown; sub-angular gravel;with	28%	1	2	3																	
4	SS-4	44	X	0	GW		coarse to medium sand; amount of non-plastic fi VERY LOOSE TO LOOSE.		2	3	3							29				2.65			41	24	13	
5	SS-5 SS-6	44	A)'0 .0					3																			
6 7	SS-6 SS-7	44	Ø.		GM		Sandy GRAVEL; gray; 42% angular gravel; 38% fine to cc sand; 20% non-plastic fi	oarse		7								52				2.64			58	47	31	
8	SS-8	89	X				MEDIUM DENSE.		11	7	5									-								
9	SS-9 SS-10	67	M.		sw		Gravelly SAND ; gray to br 67% fine to coarse sand with	26%			20							11				2.65			74	54		
11	SS-11	56					sub-angular gravel; 7% plastic fines; MEDIUM DENS DENSE.	non- SE to			21				/							2.00					- 29	
12	SS-12	56							17	21	23																	
13	SS-13	89							3	3	3	ſ						62		72	49	2.60			100	99	98	
14	SS-14	89	X				Silty CLAY; gray; 87-94% high plasticity clay with abo 12% fine medium sand; FIR	ut 5-			2												Cc 0.775					
6	SS-15	89	X		сн					3	SED 3							45	1.60	69	43	2.60	1.05	4.57		100	99	
17	UDS-2	56	X		on				PF	ES	SED							26	1.90	57	36	2,61	Cc 0.220 1.13	Pc 1.600 4.57		100	99	
8	SS-10 SS-11 SS-12 SS-13 SS-13 SS-13 SS-14 UDS-1 SS-15 UDS-2 SS-16 SS-17	89 89					Sandy CLAY; gray; 74- medium to high plasticity cl fines with 20-26% very fine s STIFF.	ayey		4	6							35		56	34	2.61					<u>100</u>	
20	SS-18	89	X						4	4	4																	
F				MA 2nc		GE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building,	MA(DRI					ŀ			R AC			- [[]		X	N	S - SPI /S - W/ DS - U	ASH S.	AMPL	E		
		11-	1	137	7 A	. M	abini St., Ermita, Manila	SUF	E	RV	ISC	OR		M.	Est	aura	а			0		С	R - CC // HYD	RE SA	MPLE	I		•

SHEET	2	OF	2

					F	NAL BOREHOLE L	OG		n	S		v	OF	TE	ст	P	FG		SHE		2	0		2
DR	01	EC	т:	Pas		Marikina River Channel	the second second second		-	G	ROUND ELEV	1.		a and a state of the second		-	-	-	-	R:	All and and a	3L -	10000	
	CAT					ink, Antonio Dr., Maybun			_	•	ILLW = Zero D TATION NO.:			- 275	51	D.	ATE	MEA	SURE	D:		Nov.	20	20
						E DRILLED: 11 - 14 Nove					EATHER:			AIR 61267	0.6	-				D:		0:00	AM	
				-				в	LOWS	-		<u>.</u>		T		ATTE	RBERG	<u>v, _</u>	UNCO	NFINED	SIE	EVE A		
DEPTH, m	SAMPLE NO	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RoD	DESCRIPTION	1	15	(SPT) 15 1 cm ci		STAND/ PENETRATK (SPT (N-VAL	ON '	TEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc		PLASTICITY STINDEX, %	SPECIFIC GRAVITY		STRAIN 8 % M	% F	10	40	T
- - 22 - - 23 - - 24 - - 25 -	UDS-3 SS-19 SS-20 SS-21 SS-22 SS-22	56 89 78 78 89		C+		Silty CLAY; gray to yell brown; 96-99% very high pla clay with very litttle or no fin sand; STIFF to VERY STIF HARD.	sticity ne fine	4 8 7	<u>ESSEI</u> 5 3 10 1 10 1 12 1 18 1	3 3 0			0 50	38		68		2.60					100	
-28 - -29 - -30	SS-24 SS-25 SS-26 SS-27	89 89 80		GN	^	Sandy GRAVEL; brown; coarse to fine sand with 449 angular gravel; 13% non-p fines; VERY DENSE.	6 sub-	9	9 1: 13 1 10 1: 50 9	7		/		36		70	44	2.60			56	41	<u>100</u>	
- -32 - -33 - -34 -	SS-28 SS-29 SS-30 SS-31 <u>SS-32</u>	89 89 89		C+	1	Silty CLAY; greenish gray, very high plasticity clay with 2 to medium sand; VERY ST	% fine	<u>11</u> 10	13 1 13 1 13 1 13 1	6				42		61		2.60 2.60				100	99	
-35 -36 -37 -38 -39 -39						End of Boring (35.00 m)																	100	
Ē		П7 =/	M 21	AN.	AGI	FECHNOLOGY AND MENT CORPORATION Prudential Bank Building, Mabini St., Ermita, Manila Figure 5-3-3 (24/2	SUF	PEF	er: RVIS	-	ACKE E. F R: <u>M. E</u> G LOGS (RIE sta	ZA aura		-			W U C	/s - W DS - U R - CC	LIT SP ASH SJ INDIST DRE SA ROME	ampl Urbi Mpli	e Ed Sa E	MPL	5

R	OJ	EC	T: F	Pasi	g-M	larikina River Channel Imp.	Pro	oj.		GRO	UND N = Z	ELE	V. Datu	ım)+	7.99	00			OF				.50	
.00	CAT	ION	: L	eft	Ban	k, Litton Mills, Manggahan, P	asi	g	1	STAT	TION	NO		4 +	900				MEAS		10000			
3H	NO:	BL	- 11		ATE	E DRILLED: 09 - 10 Dec. 20	000		-		RDIN		S:	F A 16	<u>I R</u> 1429	6.58	1	-	MEAS		0870			
T		_		-			В	LOV	VS						T		ATTER	BERG		UNCO	FINED	SIE	VE A	
DEPIH, M	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	15	15	15 cm		PENE	(SF	PT) NLUE)	TEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, gla	LIQUID %	PLASTICITY ST INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN &, %	4	10	40
- 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9	SS-1	89		сн		Sandy CLAY; gray; 83% very high plasticity clay with 16% very fine sand; VERY SOFT.	1	0	0						71		76	55	2.61			100	99	99
2	SS-2	89 89				Sandy CLAY; dark gray; 63% high plasticity clay with 19% fine to coarse sand and 18% gravel; FIRM.	1	0							51		50	25	261			•	76	
. 4	SS-3 SS-4	89 89		SM		Silty SAND; yellowish brown; 75% fine to coarse sand; 23% non- plastic silt; VERY DENSE.	19		20		$\left \right $	\downarrow					59		2.61			- 62	_76	_ 69
5	SS-5	100					50/7	-	\vdash						48				2.63			98	64	42
6	CR-1	72		TS	50	Tuffaceous SANDSTONE; gray; medium grained; moderately weathered; HARD.	C	DRI	NG						28	1.70				149.286	3.809			
7	CR-2	50		ST	45	SILTSTONE; light brown; fine grained; broken cores; HARD.	co	DRI	NG															
8	CR-3	30			24		CO	DRI	NG						-									-
101	CR-4 CR-5	60 75		ιτ	51 64	Lapilli TUFF; brown; medium to coarse grained; moderately			NG							1.68				54.62 76.929				
11						cemented; HARD.																		
12	CR-6	53			42		co	DRI	NG															
13	CR-7	67			54		c	DRI	NG						-									-
14				TS		Tuffaceous SANDSTONE; dark gray; medium grained; well cemented; solid cores; VERY HARD.																		
15	<u>CR-8</u>	75			60	End of Borehole (15.00 m)	CO	DRI	NG					_	27	1.91				132.004	3.181			
111 12 13 14 15 16 17 18 19 20			M	ANA	GE	ECHNOLOGY AND MENT CORPORATION Prudential Bank Building.								ACE			EGE	ND:	w	s - w	LIT SP ASH S.	AMPL	E	

0 2 -3 2 -3 2 -3 2 -5 6 6 1 ss-1 100 1 1 3 1 1 1 3 1 1 1 3 1 <t< th=""><th>0</th><th>CAT</th><th>101</th><th>4:</th><th>F</th><th>eft</th><th>Ban</th><th>larikina River Channel Im k, PBM Steel, Manggahan E DRILLED:07 Dec. 2</th><th>, Pas</th><th>sig</th><th>Ŀ </th><th>(MLL STA WE</th><th></th><th>ero [NO. R:</th><th>Datur</th><th>m) <u>+</u> <u>6 +</u> <u>F A I</u> 161</th><th>175 R</th><th>8.57</th><th>D. TI</th><th>ate Me i</th><th>MEAS</th><th>SURE</th><th>R: D: _0 D: 0923</th><th>7 D 3:0</th><th>)0 F</th><th>200</th></t<>	0	CAT	101	4:	F	eft	Ban	larikina River Channel Im k, PBM Steel, Manggahan E DRILLED:07 Dec. 2	, Pas	sig	Ŀ 	(MLL STA WE		ero [NO. R:	Datur	m) <u>+</u> <u>6 +</u> <u>F A I</u> 161	175 R	8.57	D. TI	ate Me i	MEAS	SURE	R: D: _0 D: 0923	7 D 3:0)0 F	200
ss-1 100 Sitty CLAY; brownish gray; 82% medium to high plasticity; swith 17% fine to coarse sand; SOFT. 1 1 3 ss-2 100 Sitty CLAY; brownish gray; medium to high plasticity; STIFF 3 5 7 ss-3 85-3 100 Sitty CLAY; brown to creamy to VERY HARD. 14 17 12 13 ss-4 100 Sitty CLAY; light brown to creamy to VERY HARD. 14 17 12 12 ss-5 100 CL Sandy CLAY; brown: 52% low to meadum plasticity sit; 41% meadure to coarse sand; 11% gravel; 9 12 12 12 ss-6 89 CL Sandy CLAY; brown: 52% low to meadum plasticity sit; 41% meadure to the sand; 6% gravel; AHAD. 19 20 *5 ss-7 88 Sitty SAND; brown; 52% low to meadure to coarse sand; 11% gravel; 12 10 20 *5 ss-7 88 Sitty SAND; brown; 52% low to meadure to coarse grained; well and to far to to coarse grained; moderately cemented; VERY HARD. 19 20 *5 so 48 20 263 94 94 so 5 78 5 78 5 74 so 5 78 5	חבר זת, ווו	SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG \$YMBOL	CLASSIFICATION	RaD	DESCRIPTION		(S	PT)		PENE	TRATI (SP	on t F} .ue)	EST	NATURAL MOIST. CONTENT. %	TOTAL UNIT WEIGHT, g/cc	LIN	ITS	₽≻	UNCOL	VFINED TEST	STE % P	IVE A	
2 SS-2 100 medium to high plasticity; STIFF 3 5 7 3 SS-3 89 CH 7 12 13 4 SS-4 100 Sitty CLAY; light brown to creamy brown; 71% medium plasticity clay; 18% fine to coarse sand; 11% gravel; 9 12 24 5 SS-5 100 CL Sandy CLAY; brown; 52% low to medium plasticity silt; 41% fine sand; 16% gravel; HARD. 30 6 SS-6 89 CL Sandy CLAY; brown; 52% low to medium plasticity silt; 41% fine sand; 16% gravel; HARD. 30 7 SS-7 86 Sitty SAND; brown; 65% medium to fine sand; 16% gravel, HARD. 19 20 50 46 20 2.63 94 94 93 8 SS-8 78 A 40 50 46 20 2.63 94 94 93 9 CR-1 40 <t< th=""><th>1</th><th>SS-1</th><th>100</th><th>X</th><th></th><th></th><th></th><th>medium to high plasticity clay wi</th><th>th</th><th>1</th><th>1 3</th><th></th><th></th><th></th><th>40</th><th>50</th><th>44</th><th></th><th>57</th><th>36</th><th>2.61</th><th></th><th></th><th>99</th><th>96</th><th>91</th></t<>	1	SS-1	100	X				medium to high plasticity clay wi	th	1	1 3				40	50	44		57	36	2.61			99	96	91
3 CH Silty CLAY; light brown to creamy brown; 71% medium plasticity clay; 18% fine to coarse sand; 11% gravel; 9 12 24 40 52 30 2.61 89 82 76 6 SS-5 100 CL Sandy CLAY; brown; 52% low to medium plasticity silt; 41% fine sand; 6% gravel; HARD. 9 12 24 10	2			X				medium to high plasticity; STIF	F								-									
5 SS-5 100 HARD. 9 12 24 6 SS-6 89 13 21 21 6 SS-6 89 CL Sandy CLAY; brown; 52% low to medium plasticity silt; 41% fine sand; 6% gravel; HARD. 19 20 5 7 SS-7 86 Silty SAND; brown; 65% medium to fine sand; 13% gravel and coarse sand; 22% non-plastic silt; DENSE. 12 23 27 8 SS-8 78 A A 9 CR-1 40 17 CQRING	4			X		СН		brown; 71% medium plasticity cla	ny <u>1</u> iy;								40		52	30	2.61			89	82	76
7 SS-7 86 7 50 46 20 2.63 94 94 93 8 SS-8 78 78 SM Sitty SAND; brown; 65% medium to fine sand; 13% gravel and coarse sand; 22% non-plastic silt; DENSE. 12 23 27 49 2.63 95 87 49 9 CR-1 40 17 CQRING CQRING <td>5</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>HARD.</td> <td></td>	5			X				HARD.																		
9 CR-1 40 CQRING	7			X		-		tine sand; 6% gravel; HARD. Silty SAND; brown; 65% medium fine sand; 13% gravel and coars	to se										46	20	2.63			94	94	93
Image: CR-2 34 30 Continented, VERY HARD. Image: CR-2 34 30 CORING Image: CR-2 34 30 CORING Image: CR-2 29 22 CORING Image: CR-2 29 1 Lapilli TUFF; light creamy gray; medium to coarse grained; well cemented; VERY HARD. CORING Image: CR-4 29 1 Lapilli TUFF; light creamy gray; medium to coarse grained; well cemented; VERY HARD. CORING Image: CR-4 29 1 Image: CORING Image: CORING Image: CR-4 29 1 Image: CORING Image: CORING Image: CR-4 29 1 Image: CORING Image: CORING Image: CR-4 29 Image: CR-4 29 Image: CR-4 Image: CR-4 29 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 29 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 29 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 29 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image: CR-4 Image					A A A	Tf	17	Sandy TUFF; brown; medium t coarse grained; moderate	to								49				2.63			95	87	49
CR-3 29 22 CØRING 14 LT Lapilli TUFF; light creamy gray; medium to coarse grained; well cemented; VERY HARD. CØRING 15 CR-4 29 18 CØRING 16 18 CØRING 10 10 16 18 CØRING CØRING 10 18 CØRING 10 10 10 19 10 10 10 10 10 18 10 10 10 10 10 19 10 10 10 10 10 10 19 10 10 10 10 10 10 10 19 10 10 10 10 10 10 10 10 19 10 10 10 10 10 10 10 10 10 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td< td=""><td>12</td><td></td><td>34</td><td></td><td>A</td><td></td><td>30</td><td>cemented, VERT HARD.</td><td>(</td><td></td><td>RING</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	12		34		A		30	cemented, VERT HARD.	(RING															
6 (15.00 m) 8 9	4					LT		medium to coarse grained; we	y; ell							2										
	16																									

-	01	EC	: T·	Dae		NAL BOREHOLE LOO			.	GRC	UNI	DEL	EV.			Enclose for the second	-	100000		WATE		-	3L ·	-
				ras				ro	-					um) <u>+</u> 7 +						SURE				
-	CAT		-) r		t Bank, Santolan, Pasig Ci			- -	WE	ATH	ER:		FA	IR		_	IME	MEAS	SURE	D:	8	:00	AM
3H	NO:	-		1		E DRILLED: 09 - 12 Novemb	ber 20		J C ows	00	RDI	NAT	ES:	16	51572	29.1	1		N, _	1	5090	-		
ε	NO.	KY (%	ABOL	ATIC					PT)			STAP	NDAR	D	OIST.	TIN 00/0		RBERG		COMP	NFINED		EVE A	
DEPIH, m	SAMPLE NO.	RECOVERY (%)	SAMPLE LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION		15 m c	15 15 m cm			(S (N-V	ATION SPT) (ALUE)		NATURAL MOIST. CONTENT. %	TOTAL UNIT WEIGHT. a/cc	LIQUID %	PLASTICITY INDEX %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN Z. %	4	10	40
- 1	SS-1	89						2	1 1						49		56	34	2.61					10
- 2	SS-2	89		1		Sandy CLAY; brown to brownis gray; 66% high plasticity claye	sh ev	1	1 1															
	UDS-1	50				fines with 34% very fine san SOFT to FIRM.	d;	PRE	SSED						43	1.71	75	48	2.61	Cc 0.305 0.320				10
4	SS-3	89						2	1 4															
5	SS-4	89						1	2 3						44		73	45	2.60			99	98	9
6	SS-5	89		СН			-	2	3 4															
7	SS-6	100				Silty CLAY; dark gray to brown 90-92% very high plasticity cla	iy -	4	5 7		1													
8	SS-7	100				with 4-7% fine sand and trace medium to coarse sand; FIRM VERY STIFF.	to	6	6 7						44		74	51	2.60			100	99	9
9	SS-8	100	X				4	5	8 11		$\left \right\rangle$													
10	SS-9	100	XII			Sandy GRAVEL; brown; 479	%	5	6 8						-									_
11	SS-10	67		GM		gravel with 24% fine to coars sand and 29% silt; MED. DENSE		9 1	0 14			\mathbf{b}			21				2.65			53	49	4
12	SS-11	67					8	8	8 13			V			-									_
13	SS-12	44					8	8	8 11						-							_		
14	SS-13	78					ŀ	7	9 12		- 20				52		65	44	2.60					10
15	SS-14	78		сн		Silty CLAY; brownish gray to gray 88-98% high plasticity clay with 2 12% fine sand and traces of grave	2- [9 1	1 18			$ \rangle$			-									
16	SS-15	100				VERY STIFF to HARD.		0 1	1 13						\vdash									-
	SS-16								2 12			$\left \right $			53		71	50	2.60			97	96	90
	SS-17								2 20				$\left \right $									_		
	SS-18 SS-19					i.			4 24				$ \rangle $											
F		-		ASI	СТ			_	2 17 NE:				KER	ACE	50	T	70 EGE	43 ND:	2.60]	100	99
[M 21	AN/	GE	MENT CORPORATION Prudential Bank Building,	RIL	LE	R :	DR		E.	RIE			-			W UI C	S - SPL S - W/ DS - U R - CO / HYDI	NDIST RE SA	urbe Mple	e Ed sa	MP

Figure 5-3-3 (27/221) BORING LOGS (PHASEI)

SHEET 2 OF 2

					FI	NAL BOREHOLE L	.0G	A	NE) :	SUI	MN	IAR	Y	OF	TE	ST	R	ES		TS		Ē	BL .	. 1:	2 3b
PF	ROJ	EC	Т:	Pas		Marikina River Channel				10	GROL	JND	ELEV. Zero Da					1		OF N	-		-	.50	Vice Area	m
100.00	CAT					ft Bank, Santolan, Pasig					STAT	ION	NO.:					1		MEAS		1.				0
Sec.	NO:			3 1		E DRILLED: 09 - 12 Nov		20	00	-	WEA				FA		0.4	_		MEAS				:00	AM	
DI	T			-	-			E	BLOV	vs			ATES	:	10	1572		ATTE	RBERG	<u>v, _</u>	1	5090	1		NALY	E
E T	E NO	RY (MBO	CATI	0			-	(SP				TANDA		ст	MOIST.	DNIT g/g	LIN	AITS		COMF	TEST			NG SI	
DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	J	15 cm		15 cm			(SPT)			NATURAL MOIST. CONTENT, %	TOTAL I	LIQUID %	LASTICITY	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN &, %	4	10	40	20
E		E.	x	10	\vdash			╀	\vdash	\vdash	10		0 30 V		50	-	-				ŝ	-				-
1 21	SS-20	100		1				13	18	19			\backslash													
hund				1		Sitte CLAV, becauside and																				
22	SS-21	33		Сн		Sitty CLAY; brownish gray to 88-98% high plasticity clayer	y fines	15	17	21				V		-							,			-
the 28	SS-22	33		3		with 2-12% fine sand and of gravel; HARD.	traces	15	38	12/5																
22	34																									
24	SS-23	33							50							43		75	48	2.60	-				100	98
uluu 8	<u>SS-24</u>	33		1_				20	50 1/7			_			-											
22 huuli						End of Boring (24.77 m)																				
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21 22 23 24 25 26 26 27 28 28 29 29 30																										
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E		-				ECHNOLOGY AND	MAC		INE	 E:		A	CKEF	RA	CE		T	EGE	ND:							
		11	M/ 2n	ANA	GE	MENT CORPORATION Prudential Bank Building,	DRI						E. RI						3	w	S - WA	IT SPO	MPLE			
		17	13	77 A	A. M	abini St., Ermita, Manila	SUP	PEF	RVI	SC	R:	Ν	A. Es	tau	ra		_		*	CF	R-CO	RE SAI	MPLE			
			-	-			and the second se	-		-	-	0.000	Conversion of the	NO OTHER		and the second second	1	-						with the		0.12753

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_			-				AL BOREHOLE LOG		-	1		-		OF	TE	ST	T	-	-			-	-	14
				P	asi		larikina River Channel Imp.	Pre	oj.	(MLLW =	Zero	Datu			38					R: D:		.60 ov.	200
_	CAT						eft Bank, Santolan, Pasig			1	STATION VEATHE).:	RAI		,					D:			
BH	NO:	-		14	-	ATE	DRILLED: 06 - 07 Nov. 20	00		С	OORDIN	IAT	ES: _		1686		9	N	I,	5	0859	95.3	20	
E	ŇO.	(%) X		BOL	ATION				(SP1			TAN	DARD		IST.	F 8	ATTER	RBERG IITS			TEST			NALY: NG SI
DEPTH, m	SAMPLE NO.	RECOVERY (SAMPL	LOG \$YMBOL	CLASSIFICATION	RQD	DESCRIPTION		15 cm			(N-V	TION T PT) ALUE)	TEST	NATURAL MOIST.	TOTAL UNIT WEIGHT, g/cc	LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	STRENGTH kg/cm ²	STRAIN A. %	4	10	40
-1	SS-1	56	X				Sandy CLAY; brown; 80% high plasticity clay with 20% fine sand; FIRM.	2		2		0 0			27		64		2.61					100
- 2 - - 3	SS-2 SS-3	78	X		СН		Sandy CLAY; brown; 89% medium to high plasticity silt with	2		1														
- 4	SS-4	89	X				10% fine sand; SOFT.	2	1	1					32		54	31	2.61				100	99
- - 5	SS-5	67	X		SM		Silty SAND; brown to dark gray; very fine sand with non-plastic silty fines; MEDIUM DENSE.	3	4	12					-									
- 6	SS-6 SS-7	78	X		GM		Sandy Gravel; dark gray; 47% sub-angular gravel with 33% coarse to fine sand and 20% non-plastic silt; MEDIUM DENSE.	4		10 6					9				2.64			53	39	27
- 1 2 3 4 5 6 7 7 8 9	SS-8 SS-9	67					Gravelly to Sandy CLAY; dark	5		7														
	SS-10	*	X		CL		gray; poorly graded gravel-sand- clay mixtures of low plasticity with 20% gravel; 25% coarse sand and 49% silty to clayey fines; STIFF to VERY STIFF.		4						30				2.63			80	55	51
- 11	SS-11 SS-12	78								11					-	-								
12 13	SS-13		X				Silty CLAY; light yellowish brown; 96% high plasticity clay with little fine sand; VERY STIFF to			16					32		57	37	2.61				100	99
 14	SS-14	89	X		СН		HARD. Sandy CLAY; brown; 79% clay	10	17	27					-									
-15	<u>SS-15</u>	67		//			with 15% fine sand; HARD. End of Borhole	11	13	19			4		32		58	34	2.61			96	95	94
10 11 12 13 14 16 16 17 18 19 20							(15.00 m)																	
Ĺ	:			M / 2n	AN/	GE	MENT CORPORATION Prudential Bank Building, DF	RILL	.EF	२ : .		E.	RI	<u>E ACE</u> EZA STAUF		_			v u	vs - w	LIT SP ASH S INDIST DRE S/	URB	E ED S/	AMPL

PR	OJ	EC	T: _	Pa	sig-	Marikina River Channe	el Imp.	Pr	oj.		GROU			um) <u>+</u>	14.7	93			I OF I		1000			
LO	CAT	101	1: _		Le	ft Bank, Calumpang, M	larikina	a		1				11 +			1		MEAS					
BH	NO:	B	<u> </u>	5	DA.	TE DRILLED: 05-06	Nov. 20	000)		OORI			<u>FA</u> 16	<u>I R</u> 1741	5.0	_		MEAS): 099			PIV
_	Ö	(%)	jo L	TION				1	BLOW (SP	NS	}		•		T	Ţ	L	10000	<u>i</u>		FINED	SIE	EVE A	
DEPTH, m	SAMPLE NO	RECOVERY (LOG SYMBOL	CI ASSIEICATION	ROD	DESCRIPTIO	Ν	15 cn	5 15 n cm	15 cm	-	ENETR/ (S	(ALUE)	D TEST	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/o	LIMIT, %	PLASTIGITY INDEX, %	SPECIFIC GRAVITY			4	10	40
- 1 - 2 - 3 - 4 - 5 6 7 8 9	SS-1			CI	4	Silty CLAY; brown; 899 plasticity clay with 11% fine SOFT.	% high e sand;	1							36		62	42						10
- 2 - 3	SS-2 SS-3			SI	A	Silty SAND; gray; grayish 51% fine sand; 22% mediur 16% non-plastic silt; 11%	m sand:	Τ	2															
- 4	SS-4	89			-	sand and gravel; LOOSE.		9	4	3					17				2.64			95	89	67
- 5 - - 6	SS-5 SS-6					Silty CLAY; greenish gra- high plasticity clay with lit sand and gravel; STIFF To STIFF.	ttle fine		5															
-7	SS-7	100						5	9	10		V			27		61	41	2.60			96	95	95
- 8	SS-8 SS-9					Sandy CLAY; brown; 809 plasticity clay with 18% f	% high fine to		16 9				$\left \right $											
- 10	SS-10			Cŀ	1	coarse sand and traces of HARD.	gravel;		13						29		63	38	2.61			98	94	84
-	SS-11 SS-12	89 100				Gravelly CLAY ; brown; 66 ⁰ plasticity clay with 23% grav	% high		<u>14</u> 9															
-13	SS-13 CR-1	100 40	0	GV	0	GRAVEL; broken cores; H	IFF to	10	17	18					33		58	37	2.61			77	75	73
-14		100		сн		Sandy CLAY; brown; 77% plasticity clay; 22% fine VERY STIFF.	% high	9	<u>11</u>	13		5	/	\geq					_					
-14 	. 19					End of Borehole (15.00 m)		10	12	18					48		63	43	2,61				100	99
19		57	BA	ASI		ECHNOLOGY AND	MAC					ACK		ACE			EGEN		ss	- SPLI	T SPO	ONS	AMPL	Ē