

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 19**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 9.225**DEPTH OF WATER: **2.50** m.LOCATION: **L. Side Offshore, Pasig-Marikina River**STATION NO.: **10 + 500**DATE MEASURED: **14 Dec. 2000**BMLW-19 DATE DRILLED: **11 - 13 December 2000**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**COORDINATES: **1617971.100** N, **508849.950** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
SS-1	67		SW		Medium To Fine SAND; gray, 61% medium sand with traces of coarse sand and shell fragments; VERY LOOSE.	1	0	1		25				2.63			96	90	29	3
SS-2	67		SM		Silty SAND; gray; 49% non-plastic silt; 20% medium sand; 25% fine sand with traces of coarse sand and sub-angular gravel; LOOSE TO DENSE.	2	3	3												
SS-3	78					4	2	6		30				2.62			96	94	74	45
SS-4	67					15	17	14												
SS-5	89				Sandy Clayey SILT; light brown to brown; 12% fine sand; 84% very low plasticity clayey silt; VERY STIFF.	14	13	12												
SS-6	89		ML			6	7	10		30				2.60			100	99	96	84
SS-7	89					12	9	14												
SS-8	100				Gravelly Sandy SILT; light brown to brown; 25% sub-angular gravel; 7% coarse sand; 11% medium sand; 10% fine sand; 47% non-plastic silt; HARD.	43	50	13												
SS-9	78					41	14	28		26				2.62			75	68	57	47
SS-10	100					17	50	11												
CR-1	100		SS		SILTSTONE; light brown; highly weathered; generally broken; HARD.	CORING														
SS-11	100		SC		Clayey SAND; brown; fine to medium sand; low plasticity clay; VERY DENSE.	43	50	15												
CR-2	NR				No Recovery	CORING														
SS-12	100		ML		Sandy SILT; brown; fine to medium sand; non-plastic silt; VERY DENSE.	50	13													
CR-3	NR				No Recovery	CORING														
SS-13	100					50	15			24				2.64			54	48	37	29
SS-14	100		GM		Sandy Silty GRAVEL; brown; 11% medium sand with traces of coarse and fine sand; 29% non-plastic silt; 46% sub-rounded gravel; VERY DENSE.	50	8													
CR-4	65		SS		SILTSTONE; light gray to brown; highly weathered; generally broken; HARD.	CORING														
CR-5	53					CORING														
CR-6	33		ST		SANDSTONE; yellowish brown to gray; highly weathered; generally broken; HARD.	CORING														
CR-7	33				End of Borehole (20.05 m)	CORING														



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: \_\_\_\_\_  
DRILLER: \_\_\_\_\_  
SUPERVISOR: \_\_\_\_\_

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W - HYDROMETER ANALYSIS

Figure 5-3-3 (106/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 20a**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLW = Zero Datum) **+ 10.595**DEPTH OF WATER: **2.50** mLOCATION: **L. Side Offshore, Marikina River**STATION NO.: **11 + 000**DATE MEASURED: **20 Dec. 2000**H NO: **BMLW-20** DATE DRILLED: **20 - 22 December 2001**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**COORDINATES: **1617821.250** N, **509180.500** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE					
						15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN W, %	4	10	40	200		
									10	20	30	40	50													
1	SS-1	100		CH	Gravelly CLAY; grayish brown; 11% coarse to fine sand; 33% sub-rounded gravel; 56% high plasticity clay; STIFF to VERY STIFF.	2	3	5						37		53	30	2.61			67	64	60	56		
2	SS-2	100				7	5	7																		
3	SS-3	100				7	7	10								39				2.65			73	60	51	44
4	SS-4	100			Silty CLAY; brown to creamy brown; 89% high plasticity clay with little amount of fine sand; FIRM TO STIFF.	4	3	3																		
5	SS-5	100				3	4	5																		
6	SS-6	100				4	5	7								26		62	41	2.60			99	97	95	89
7	SS-7	100			Silty CLAY; brown to creamy brown; 97% high plasticity clay with little amount of fine sand; VERY STIFF.	8	11	11																		
8	SS-8	100				6	9	11																		
9	SS-9	100				10	10	9								27		69	47	2.60			100	99	98	97
10	SS-10	67			Sandy CLAY; creamy brown; 10% medium sand with traces of gravel and coarse and fine sand; 70% high plasticity clay; VERY STIFF TO HARD.	7	10	12																		
11	SS-11	100				7	10	12																		
12	SS-12	100				13	18	18								28		59	34	2.61			92	87	77	70
13	SS-13	100	Silty CLAY; brown; 85% high plasticity clay w/ traces of fine sand and little amount of gravel and coarse to medium sand. VERY STIFF TO HARD.	8	7	10																				
14	SS-14	100		9	12	13																				
15	SS-15	100		10	11	12								29		65	38	2.60			96	94	92	85		
16	SS-16	100	Silty CLAY; light grayish brown; 86% low to medium plasticity clay; contains traces of fine sand and little amount of gravel and coarse sand; VERY STIFF to HARD.	15	13	14																				
17	SS-17	33		10	15	18																				
18	SS-18	100		11	13	15								39		48	26	2.60			96	94	93	86		
19	SS-19	100	CL	CL		11	13	13																		
20	SS-20	100				14	14	20																		



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
SUPERVISOR: **M. ESTAURA**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
\* W/ HYDROMETER ANALYSIS

Figure 5-3-3 (107/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 20k**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 10.595**DEPTH OF WATER: **2.50** mLOCATION: **L. Side Offshore, Marikina River**STATION NO.: **11 + 000**DATE MEASURED: **20 Dec. 2000**H NO: **BMLW-20** DATE DRILLED: **20 - 22 December 2000**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**COORDINATES: **1617821.250** N, **509180.500** E

SAMPLE NO.	RECOVERY (%)	SAMPLE LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN W, %	4	10	40	200
1	SS-21 67		SM		<b>Silty SAND; dark gray; 30% non-plastic silt; 65% fine sand with little amount of medium sand; DENSE TO VERY DENSE.</b>	22	19	19		20				2.63			100	99	95	30
2	SS-22 89					12	22	28												
3	SS-23 89					21	22	27												
4	SS-24 100		CH		<b>Sandy CLAY; dark gray; 16% fine sand with traces of medium sand and little amount of gravel; 69% high plasticity clay; VERY STIFF.</b>	19	15	15		45	59	39	2.61				95	94	85	65
5	SS-25 100					10	12	17												
6	SS-6 100				<b>End of Borehole (25.00 m)</b>															
7	SS-7 100																			
8	SS-8 100																			
9	SS-9 89																			
10	SS-10 89																			
11	SS-11 81																			
12	SS-12 87																			
13	SS-13 86																			
14	SS-14 44																			
15	SS-15 87																			
16	SS-16 100																			
17	SS-17 100																			
18	SS-18 100																			
19	SS-19 100																			
20	SS-20 100																			



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
SUPERVISOR: **M. ESTAURA**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
\* W/ HYDROMETER ANALYSIS

Figure 5-3-3 (108/221) BORING LOGS (PHASE I)



FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 21a**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Side Offshore, Calumpang, Marikina**NO: **BMLW-21** DATE DRILLED: **28 Dec. - 02 Jan. 2001**GROUND ELEV.  
(MLLW = Zero Datum) **+ 9.970**STATION NO.: **11 + 500**WEATHER: **FAIR**DEPTH OF WATER: **2.90** mDATE MEASURED: **02 Jan. 2001**TIME MEASURED: **4:00 PM**COORDINATES: **1617442.250** N, **509511.125** E

SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
SS-1	100					Silty CLAY; grayish brown; traces of coarse to fine sand with little amount of gravel; 88% high plasticity silty clay; SOFT.	2	2	2		31	55	37	2.60				96	95	92	88
SS-2	100					Sandy CLAY; brownish gray to light brown; 14% fine sand; 82% high plasticity clay; STIFF TO VERY STIFF.	6	6	6												
SS-3	100						8	9	10		36	60	33	2.61				99	98	96	82
SS-4	100						11	11	9												
SS-5	100				CH	Sandy CLAY; brownish gray to light brown; high plasticity clay; fine sand; STIFF to HARD.	14	17	22												
SS-6	100					Gravelly CLAY; brown; 11% sub-angular gravel with little amount of coarse to fine sand; 81% high plasticity clay; HARD.	14	19	19		29	61	27	2.61				89	85	83	81
SS-7	100					Sandy CLAY; brown; 20% coarse to fine sand with little amount of gravel; 77% high plasticity clay; HARD.	13	19	21												
SS-8	100						28	29	23												
SS-9	89						21	24	28		29	63	33	2.61				97	92	85	77
SS-10	89					Sandy SILT; gray; 19% fine sand; 76% low plasticity silt with little amount of gravel. HARD.	15	25	27												
SS-11	61						21	33	17/3												
SS-12	57				ML		14	26	25/5		22			2.61				97	96	95	76
SS-13	56					Silty GRAVEL; gray; 10% fine to medium sand; 41% low plasticity silt; 49% angular gravel; VERY DENSE TO DENSE.	15	19	27												
SS-14	44						12	17	28												
SS-15	57				GM		19	23	27/5		21			2.62				51	51	50	41
SS-16	100					Silty CLAY; gray; 93% high plasticity clay with traces of fine sand; HARD.	10	18	17												
SS-17	100						12	15	17												
SS-18	100				CH		11	17	20		36	67	41	2.60				100	99	99	99
SS-19	100						16	17	21												
SS-20	100						13	15	18												



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
SUPERVISOR: **M. ESTAURA**  
**M. VILLAFUERTE**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ - HYDROMETER ANALYSIS

Figure 5-3-3 (109/221) BORING LOGS (PHASE I)



FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 21k**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 9.970**DEPTH OF WATER: **2.90** mLOCATION: **L. Side Offshore, Calumpang, Marikina**STATION NO.: **11 + 500**DATE MEASURED: **02 Jan. 2001**H NO: **BMLW-21** DATE DRILLED: **28 Dec. - 02 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **4:00 PM**COORDINATES: **1617442.250** N, **509511.125** E

SAMPLE NO.		RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS			
								15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
21	SS-21	100			SM		Silty SAND; gray; 46% low plasticity silt; 50% fine sand; DENSE.	12	15	21					19				2.62			98	97	96	4	
22	SS-22	100				16		18	24																	
23	SS-23	100				12		15	23																	
24	SS-24	100			CL		Sandy CLAY; gray; 37% fine sand; 62% low to medium plasticity clay; HARD.	13	14	19					33	48	30	2.61				100	99	6		
25	SS-25	100				14		18	26																	
26							End of Borehole (25.00 m)																			
27																										
28																										
29																										
30																										
31																										
32																										
33																										
34																										
35																										
36																										
37																										
38																										
39																										
40																										



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
SUPERVISOR: **M. ESTAURA**  
**M. VILLAFUERTE**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ HYDROMETER ANALYSIS

Figure 5-3-3 (110/221) BORING LOGS (PHASE I)

# FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 22a**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 10.012**DEPTH OF WATER: **2.50** m.LOCATION: **L. Side Offshore, Calumpang, Marikina**STATION NO.: **12 + 000**DATE MEASURED: **04 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **7:00 AM**NO: **BMLW-22** DATE DRILLED: **04 - 05 January 2001**COORDINATES: **1617541.100** N, **509951.100** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
SS-1	89		CH		Silty CLAY; light brownish gray to brown; 92-98% high plasticity silty clay with little amount of fine sand. STIFF TO VERY STIFF.	3	4	6		38		81	49	2.60			100	99	98	
SS-2	89		CH			5	8	9												
SS-3	89		CH			8	11	19		27		65	39	2.60			100	99	97	92
SS-4	89		CH			11	12	15												
SS-5	89		CH			5	8	10												
SS-6	89		CH			5	9	10		31		69	42	2.60			100		97	
SS-7	89					6	7	10												
SS-8	89		ML		Sandy SILTY; brown; 53% fine sand with little amount of medium sand; 45% non-plastic silt; VERY STIFF TO HARD.	6	8	12												
SS-9	89		ML			7	12	13		29				2.63			100	98	45	
SS-10	89					7	13	22												
SS-11	89		CH		Silty CLAY; brown to dark gray; 90% high plasticity silty clay with traces of fine sand; STIFF TO VERY STIFF.	6	10	13												
SS-12	89		CH			5	6	7		39		62	38	2.60			100	99	97	90
SS-13	89					10	11	11												
SS-14	89		ML		Sandy SILT; dark gray; fine sand; non-plastic silt; VERY STIFF.	6	8	9												
SS-15	89				Sandy CLAY; dark gray; 16% fine sand; 85% high plasticity clay. VERY STIFF.	9	8	11		33		61	40	2.60			100	99	83	
SS-16	89					11	16	21												
SS-17	89		CH		Silty CLAY; dark gray to grayish brown; 99% high plasticity silty clay. HARD.	13	18	21												
SS-18	89		CH			10	16	18		29		74	41	2.60			100		99	
SS-19	89		CH			13	18	20												
SS-20	89		CH			12	20	21												

**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**DRILLER: **E. RIEZA**SUPERVISOR: **M. ESTAURA  
M. VILLAFUERTE**

LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ HYDROMETER ANALYSIS

Figure 5-3-3 (111/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 22b**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 10.012**DEPTH OF WATER: **2.50** m.LOCATION: **L. Side Offshore, Calumpang, Marikina**STATION NO.: **12 + 000**DATE MEASURED: **04 Jan. 2001**BMLW-22 DATE DRILLED: **04 - 05 January 2001**WEATHER: **FAIR**TIME MEASURED: **7:00 AM**COORDINATES: **1617541.100** N, **509951.100** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)  (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN W, %	4	10	40	200
SS-21	89		CH		<b>Sandy CLAY</b> ; grayish brown; 38% fine sand; 61% high plasticity clay; <b>HARD</b> .	11	16	19		27	53	27	2.61				100	99	61	
SS-22	83		SW		<b>Gravelly SAND</b> ; brown; 12% non-plastic silt; 33% sub-rounded gravel; 16% coarse sand; 25% medium sand; 14% fine sand; <b>VERY DENSE</b> .			26												
SS-23	78					18	24	12												
SS-24	83					18	19	20												
						43	36	14 6		14			2.65			67	51	26	12	
					End of Borehole (23.91 m)															

**BASIC TECHNOLOGY AND  
MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **E. RIEZA**  
SUPERVISOR: **M. ESTAURA  
M. VILLAFUERTE**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
\* W/ HYDROMETER ANALYSIS

Figure 5-3-3 (112/221) BORING LOGS (PHASE I)



FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW-23**

PROJECT: **Pasig-Marikina River Channel Imp. Proj.**  
 LOCATION: **L. Side Offshore, Butiki Park, Marikina**  
 NO: **BMLW-23** DATE DRILLED: **03 - 05 January 2001**

GROUND ELEV.  
 (MLLW = Zero Datum) **+ 12.016**  
 STATION NO.: **12 + 500**  
 WEATHER: **FAIR**

DEPTH OF WATER: **2.50**  
 DATE MEASURED: **04 Jan. 2001**  
 TIME MEASURED: **7:00 AM**

COORDINATES: **1618039.500** N, **510008.750** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN M, %	4	10	40	200
SS-1	100				<b>Silty CLAY</b> ; grayish brown to brown; 95% high plasticity silty clay with little amount of fine to medium sand; <b>STIFF TO VERY STIFF</b> .	6	6	5		35		68	38	2.60				100	98	9
SS-2	100					7	10	11												
SS-3	100					6	6	9		40		69	44	2.60				100	98	9
SS-4	100		CH			9	10	12												
SS-5	100				<b>Sandy CLAY</b> ; light brown; 13% fine sand with traces of medium; 78% high plasticity clay; <b>VERY STIFF</b> .	9	14	13												
SS-6	100					10	12	17		33		50	26	2.61			99	99	91	71
SS-7	100					8	9	11												
SS-8	100					9	9	13												
SS-9	67		CL		<b>Sandy CLAY</b> ; light brown; 25% fine sand; 72% low plasticity clay; <b>VERY STIFF</b> .	17	24	5		35		48	27	2.61			100	99	97	71
SS-10	50					20	15													
SS-11	76				<b>Silty Gravelly SAND</b> ; brown; 16-20% non-plastic silt; 31-35% angular to sub-angular gravel; 16-19% coarse sand; 19% medium sand; 11-14% fine sand. <b>VERY DENSE</b> .	25	40	11												
SS-12	47		SP			35	40	10		8				2.63			69	53	34	21
SS-13	50		SM			20	15													
SS-14	60					25	10													
SS-15	60					31	10			8				2.65			65	46	27	16
					End of Borehole (14.80 m)															



**BASIC TECHNOLOGY AND  
 MANAGEMENT CORPORATION**  
 2nd Floor Prudential Bank Building,  
 1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
 DRILLER: **J. MADERA**  
 M. ESTAURA  
 SUPERVISOR: **M. VILLAFUERTE**

LEGEND:



SS - SPLIT SPOON SAMPLE  
 WS - WASH SAMPLE  
 UDS - UNDISTURBED SAMPLE  
 CR - CORE SAMPLE  
 W/ - HYDROMETER ANALYSIS

Figure 5-3-3 (113/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 24a**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 12.475**DEPTH OF WATER: **2.50** m.LOCATION: **L. Side Offshore, Sta. Elena, Marikina**STATION NO.: **13 + 000**DATE MEASURED: **10 Jan. 2001**NO: **BMLW-24** DATE DRILLED: **09 - 10 January 2001**WEATHER: **FAIR**TIME MEASURED: **1:00 PM**COORDINATES: **1618534.650** N, **509944.500** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS			
						15 cm	15 cm	15 cm				(N-VALUE)	LIQUID LIMIT, %		PLASTICITY INDEX, %	STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40
SS-1	100		SM		Silty SAND; brown; 12% non-plastic silt; 5-11% gravel; 7-17% coarse sand; 24-25% medium sand; 35-52% fine sand; MEDIUM DENSE.	5	6	6		25			2.63			95	88	64	12	
SS-2	100					4	6	7		16			2.63			89	72	47	12	
SS-3	89					6	8	9		29	63	38	2.60			100	99	96	92*	
SS-4	100					7	10	13												
SS-5	100		CH		Silty CLAY; grayish brown; 88-96% high plasticity clay with traces of fine sand; VERY STIFF TO HARD.	12	16	19												
SS-6	100					14	14	20		34	65	43	2.60			100	99	98	96*	
SS-7	89					13	18	24												
SS-8	100					10	11	14		47	61	35	2.60			98	98	96	88*	
SS-9	67		SP		Gravelly SAND; light gray; 19% non-plastic silt; 26% angular gravel; equal amount of medium to fine sand with traces of coarse sand; MEDIUM DENSE.	9	11	14		21			2.65			74	69	44	19	
SS-10	100				Sandy CLAY; brown to gray; 13-19% fine sand; 75-84% high plasticity clay; VERY STIFF TO HARD.	13	14	20		37	61	32	2.60			99	98	97	84*	
SS-11	100					13	14	16												
SS-12	100					16	12	15		37	53	27	2.61			96	95	94	75*	
SS-13	100		CH			Silty CLAY; grayish brown to brownish; 97% high plasticity clay; VERY STIFF.	9	11	14		43	60	33	2.60			100	99	97*	
SS-14	100				Sandy CLAY; grayish brown to brown; 11% fine sand; 85% high plasticity clay. VERY STIFF.	7	9	9		35	61	30	2.60			98	98	96	85*	
SS-15	67				Silty CLAY; grayish brown to brown; 79-92% high plasticity clay with traces of fine sand; VERY STIFF.	10	11	12		41	58	21	2.61			100	95	87	79*	
SS-16	100					9	12	14		33	65	33	2.60			100	99	99	92*	
SS-17	67		SM			Silty SAND; grayish brown; 11% angular gravel; 39% non-plastic silt; 24% medium sand; 20% fine sand with traces of coarse sand; DENSE.	12	15	17		22			2.63			89	83	59	39
SS-18	56						12	16	22		29	46	20	2.62			96	88	66	50*
SS-19	78		CL		Sandy CLAY; grayish brown; 22% medium sand; 16% fine sand with traces of coarse sand and little amount of gravel; 50% low to medium plasticity clay; HARD.	15	19	19												
SS-20	67						15	19	20											



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
**I. LUENGAS**  
SUPERVISOR: **M. ESTAURA**  
**M. VILLAFUERTE**





## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
\* W/ HYDROMETER ANALYSIS

Figure 5-3-3 (114/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 24b**OBJECT: Pasig-Marikina River Channel Imp. Proj.GROUND ELEV.  
(MLLW = Zero Datum) + 12.475DEPTH OF WATER: 2.50 m.LOCATION: Left Side, Sta. Elena, MarikinaSTATION NO.: 13 + 000DATE MEASURED: 10 Jan. 2001NO: BMLW-24 DATE DRILLED: 09 - 10 December 2000WEATHER: FAIRTIME MEASURED: 1:00 PMCOORDINATES: 1618534.650 N, 509944.500 E

SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE					
							15 cm	15 cm	15 cm				(N-VALUE)	LIQUID LIMIT, %		PLASTICITY INDEX, %	STRENGTH kg/cm <sup>2</sup>	STRAIN %, W <sub>p</sub>	4	10	40	200	
SS-21	44			SW		Gravelly SAND; brown; 11% non-plastic silt; 40% sub-angular gravel; 18% coarse sand; 19% medium sand; 12% fine sand; VERY DENSE TO DENSE.	17	22	28					15			2.65			60	42	23	11
SS-22	44					End of Borehole (22.00 m)	19	21	27														

**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE  
DRILLER: J. MADERA  
SUPERVISOR: M. VILLAFUERTE

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ HYDROMETER ANALYSIS

Figure 5-3-3 (115/221) BORING LOGS (PHASE I)



FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 25**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 10.196**DEPTH OF WATER: **2.45** mLOCATION: **L. Side Offshore, Sto. Niño, Marikina**STATION NO.: **13 + 495**DATE MEASURED: **11 Jan. 2001**NO: **BNLW-25** DATE DRILLED: **11 - 12 January 2001**WEATHER: **FAIR**TIME MEASURED: **11:00 AM**COORDINATES: **1619025.100** N, **509815.500** E

SAMPLE NO.	RECOVERY (%)	SAMPLE LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
SS-1	56		CH		Sandy CLAY; gray; 12% fine sand, 86% high plasticity clay; VERY SOFT.	1	0	1		67	73	46	2.60				100	99	98	86
SS-2	78		CH		Sandy CLAY; brownish gray; 7% gravel; 36% fine sand with traces of gravel and coarse sand; contains little amount of medium to fine sand; 49% high plasticity clay; STIFF	2	3	7												
SS-3	89		SM		Silty SAND; brownish gray; 33% non-plastic silt; 62% fine sand w/ little amount of medium sand; DENSE.	5	6	6		31	53	31	2.63				93	88	85	45
SS-4	89		SM			11	16	14		26			2.63				100	95	3	
SS-5	89		GP			3	5	6		22			2.63				91	82	33	9
SS-6	89		GP		Gravelly SAND; brownish gray; 9-22% non-plastic silt; 9-37% angular gravel; 6-23% coarse sand; 14-49% medium sand; 4-32% fine sand; MEDIUM DENSE.	7	7	7		17			2.64				73	65	35	16
SS-7	89		GP			7	7	9												
SS-8	89		GP			6	7	9		22			2.63				86	80	42	10
SS-9	89		CH			7	10	11		7			2.64				63	40	26	22
SS-10	89		CH		Sandy CLAY; gray; 12% fine sand with traces of coarse to fine sand; contains little amount of gravel; 68% high plasticity clay; MEDIUM DENSE.	7	8	12		40	59	37	2.61				97	88	80	68
SS-11	89		GP		Sandy GRAVEL; gray; 7% non-plastic silt; 32% coarse to fine sand; 61% sub-angular to rounded gravel; MEDIUM DENSE.	6	9	13												
SS-12	89		GP			15	13	12		9			2.65				39	27	15	7
SS-13	44		GW			18	20	18												
SS-14	44		GW		Sandy GRAVEL; gray; traces of non-plastic silt; 14-15% coarse sand; 12-14% medium sand with 7% fine sand; DENSE TO VERY DENSE.	14	15	28												
SS-15	44		GW			15	21	27		6			2.64				43	28	14	7
SS-16	44		GW			18	20	27												
SS-17	43		GW			16	35	5		6			2.65				37	23	11	4
					End of Borehole (16.90 m)															

**BTA** **BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **J. MADERA**  
**I. LUENGAS**  
SUPERVISOR: **M. ESTAURA**  
**M. VILLAFUERTE**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ HYDROMETER ANALYSIS

Figure 5-3-3 (116/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 26**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 10.975**DEPTH OF WATER: **1.55** mLOCATION: **L. Side Offshore, Sto. Niño, Marikina**STATION NO.: **13 + 975**DATE MEASURED: **12 Jan. 2001**NO: **BMLW-26** DATE DRILLED: **12 - 15 January 2001**WEATHER: **FAIR**TIME MEASURED: **2:00 PM**COORDINATES: **1619478.250** N, **509689.250** E

SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	4	10	40	200
SS-1	100		CH		<b>Silty CLAY</b> ; grayish brown to brownish gray; 91-92% high plasticity silty clay w/ traces of medium to fine sand; <b>FIRM TO STIFF</b> .	2	2	2		40		53	32	2.60				100	95	91
SS-2	89		CH			3	4	5												
SS-3	89		CH			2	4	4												
SS-4	89		SM		<b>Silty SAND</b> ; gray; 14% non-plastic silt; 11% medium sand; 75% fine sand; <b>MEDIUM DENSE</b> .	5	4	6												
SS-5	89		SM			7	6	6												
SS-6	89		SM		<b>Silty Gravelly SAND</b> ; gray; 8-10% non-plastic silt; 19-38% sub-rounded to angular gravel; 12-15% coarse sand, 21-38% medium fine sand 18-21% fine sand; <b>MEDIUM DENSE</b> .	5	6	8		15				2.64			81	69	31	11
SS-7	89		SM			5	6	9												
SS-8	89		SM			9	7	8												
SS-9	78		SM			12	12	13		12				2.65			62	47	26	8
SS-10	56		SM		<b>Silty Gravelly SAND</b> ; gray; contains appreciable amount of non-plastic silt; sub-rounded to angular gravel; fine to coarse sand; <b>DENSE TO VERY DENSE</b> .	10	16	18												
SS-11	100		SM			11	29	5												
SS-12	100		SM		<b>Gravelly Silty SAND</b> ; gray; 17% angular and sub rounded gravel; 34% non-plastic silt, 46% fine sand; <b>MEDIUM DENSE</b> .	19	14	10		79				2.63			83	81	80	3
SS-13	78		GW		<b>GRAVEL</b> ; gray; sub rounded to sub-angular <b>VERY DENSE</b> .	19	37	2		1				2.66			3	1	1	1
SS-14	78		GP GM		<b>Sandy GRAVEL</b> ; gray; 10% non-plastic silt 10% coarse sand, 14% medium w/ traces of fine, 57% angular gravel. <b>DENSE</b> .	12	19	24		9				2.66			43	33	19	1
SS-15	67		SM		<b>Silty SAND</b> ; gray; 20% non-plastic silt; 45% medium sand; 19% fine sand with traces of gravel and coarse sand; <b>VERY DENSE</b> .	31	50	15		16				2.64			92	84	39	2
SS-16	51		GP GM		<b>Silty Sandy GRAVEL</b> ; brown; 12% non-plastic silt; 9% medium sand with traces of coarse and fine sand; 61% angular to sub-rounded gravel; <b>VERY DENSE</b> .	19	23	27												
SS-17	50		GP GM			32	50	15		6				2.66			39	30	21	1
18					End of Borehole (16.85 m)															
19																				
20																				



**BASIC TECHNOLOGY AND MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**DRILLER: **J. MADERA**  
**I. LUENGAS**SUPERVISOR: **M. ESTAURA**  
**M. VILLAFUERTE**

LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ - HYDROMETER ANALYSIS

Figure 5-3-3 (117/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 27**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 11.395**DEPTH OF WATER: **1.55** m.LOCATION: **L. Side Offshore, Sto. Niño, Marikina**STATION NO.: **14 + 515**DATE MEASURED: **12 Jan. 2001**NO: **BMLW-27** DATE DRILLED: **16 - 17 January 2001**WEATHER: **FAIR**TIME MEASURED: **2:00 PM**COORDINATES: **1619979.900** N, **509511.100** E

SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)  (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
						15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN W, %	4	10	40	200
SS-1	89		CL		Silty CLAY; gray; low to medium plasticity silty clay; FIRM.	2	3	3		41		45	22	2.60					100	99*
SS-2	89					2	3	4		35				2.62					100	56
SS-3	89		CH		Sandy CLAY; gray; 10-44% fine sand; 56-90% high plasticity clay; FIRM.	2	2	2		38				2.62					100	56
SS-4	89					2	3	4		39		53	34	2.61					100	72*
SS-5	89					3	2	3												
SS-6	89					1	2	3		45		55	34	2.60					100	90*
SS-7	89				Silty SAND; gray; 46% non-plastic silt; 54% fine sand; LOOSE TO MEDIUM DENSE.	2	4	4		35				2.63					100	46
SS-8	89					2	4	13												
SS-9	100		SM		Silty Gravelly SAND; brownish gray to brown; 17% non-plastic silt; 27% sub-angular gravel; 18% coarse sand; 24% medium sand; 14% fine sand; VERY DENSE.	50 32	7			50				2.64			73	55	31	17
SS-10	100					22	10													
SS-11	100				Silty SAND; brownish gray to brown; 42% non-plastic silt; 10% coarse sand; 22% medium sand; 23% fine sand; VERY DENSE.	50 15				37				2.62			97	87	65	42
CR-1	35		ST		SANDSTONE; brown; highly weathered; SOFT.	CORING														
SS-12	56					16	19	20		46				2.64			49	39	26	14
SS-13	78		GM		Silty Sandy GRAVEL; brown; 14% non-plastic silt; 10% coarse sand; 13% medium sand; 12% fine sand; 51% sub-angular gravel; DENSE.	19	20	18												
SS-14	100		ML		Sandy SILT; brownish gray 14% medium sand; 25% fine sand w/ little amount of coarse sand; 57% non-plastic silt; HARD.	30	46	4		36				2.62			99	96	82	57
SS-15	100																			
SS-16	100		SM		Silty Gravelly SAND; grayish brown; 22% non-plastic silt; 31% sub-angular gravel; 13% coarse sand; 18% medium sand; 16% fine sand; VERY DENSE.	28	41	9		48				2.64			69	56	38	22
					End of Borehole (15.69 m)	50 14														



**BASIC TECHNOLOGY AND  
MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**DRILLER: **E. RIEZA**SUPERVISOR: **M. ESTAURA  
M. VILLAFUERTE**

LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ HYDROMETER ANALYSIS

Figure 5-3-3 (118/221) BORING LOGS (PHASE I)



FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLW - 28**OBJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.  
(MLLW = Zero Datum) **+ 11.130**DEPTH OF WATER: **1.80** m.LOCATION: **L. Side Offshore, Malanday, Marikina**STATION NO.: **15 + 100**DATE MEASURED: **17 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **2:20 PM**NO: **BMLW-28** DATE DRILLED: **17 - 19 January 2001**COORDINATES: **1620481.100** N, **509699.250** E

NO. BMLV-26																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**BASIC TECHNOLOGY AND  
MANAGEMENT CORPORATION**  
2nd Floor Prudential Bank Building,  
1377 A. Mabini St., Ermita, Manila

MACHINE: **ACKER ACE**  
DRILLER: **E. RIEZA**  
SUPERVISOR: **M. ESTAURA  
M. VILLAFUERTE**

## LEGEND:



SS - SPLIT SPOON SAMPLE  
WS - WASH SAMPLE  
UDS - UNDISTURBED SAMPLE  
CR - CORE SAMPLE  
W/ - HYDROMETER ANALYSIS

Figure 5-3-3 (119/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 8**

<b>PROJECT:</b> Pasig-Marikina River Channel Imp. Proj.					<b>GROUND ELEV.</b> (MLLW = Zero Datum) <u>+ 14.236</u>					<b>DEPTH OF WATER:</b> <u>2.30</u> m.				
<b>LOCATION:</b> Right Bank, Ugong Sur, Pasig City					<b>STATION NO.:</b> <u>2 + 000</u>					<b>DATE MEASURED:</b> <u>28 Feb. 2001</u>				
<b>BH NO:</b> BMRL-8 <b>DATE DRILLED:</b> 28 February 2001					<b>WEATHER:</b> FAIR					<b>TIME MEASURED:</b> <u>7:00 AM</u>				
<b>COORDINATES:</b> <u>1611,711.100</u> N, <u>507,931.250</u> E														

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm <sup>2</sup>	STRAIN %	W, %	4	10	40	200
1	SS-1	89		CH		Silty CLAY; gray; 94% high plastic clay; traces of fine sand; SOFT.	1	0	1		74	84	59	2.60								
2	SS-2	100				Gravelly SAND; brownish gray; 43% gravel; with little amount of non-plastic silt; 24% coarse sand; 21% medium sand; 10% fine sand; VERY DENSE.	1	1	0													
3	SS-3	89		SW			5	20	30													
	SS-4	83					50/12				57			2.65			57	33	12	2		
4				Ts		Sandy TUFF; gray; highly weathered; moderately; HARD.																
5	CR-1	36			12																	
6	CR-2	45			0																	
7	CR-3	34			0	SANDSTONE; brown; completely weathered; VERY SOFT.																
8	CR-4	29			0																	
9	CR-5	57		ST	0	SANDSTONE; brownish gray; completely weathered; VERY SOFT.																
10	CR-6	69			14																	
11	CR-7	62			62	SANDSTONE; gray; coarse grain sandstone; moderately weathered; HARD.																
12	CR-8	54			44						7	1.49			37.026	2.148						
13	CR-9	27		CG	16	Tuffaceous CONGLOMERATE; light gray with occasional gravel size pumice; moderately weathered; HARD.																
14	CR-10	28		ST	0	SANDSTONE; light gray; medium grain; highly weathered; Moderately HARD.																
15	CR-11	25		CG	11	Tuffaceous CONGLOMERATE; light gray; with occasional gravel size pumice; highly weathered; Moderately HARD.																
16	End of Borehole (15.00 m)																					
17																						
18																						
19																						
20																						

<b>BASIC TECHNOLOGY AND MANAGEMENT CORPORATION</b> 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila	<b>MACHINE:</b> <u>ACKER ACE</u>	<b>LEGEND:</b> SS - SPLIT SPOON SAMPLE WS - WASH SAMPLE UDS - UNDISTURBED SAMPLE CR - CORE SAMPLE W/ HYDROMETER ANALYSIS
	<b>DRILLER:</b> <u>A. TENERIFE</u>	
	<b>SUPERVISOR:</b> <u>M. ESTAURA</u>	

Figure 5-3-3 (120/221) BORING LOGS (PHASE I)