

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 26**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Santolan, Pasig**BH NO: **BMLL-26** DATE DRILLED: **04 - 05 January 2001**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.909**STATION NO.: **9 + 140**WEATHER: **FAIR**COORDINATES: **1616702.500 N, 508437.750 E**DEPTH OF WATER: **1.80** mDATE MEASURED: **05 Jan. 2001**TIME MEASURED: **7:00 AM**

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 SIEV			
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	58		CH		Sandy CLAY; brown; 22% fine sand; 75% high plasticity clay; VERY SOFT to SOFT.	1	0	0		30		58	37	2.61			99	99	97	
2	SS-2	67					1	1	2												
3	SS-3	100		SP		Silty Gravelly SAND; brown; 26% sub-angular gravel; 14% coarse sand; 36% medium sand; 13% fine sand with 11% non-plastic silt; LOOSE To VERY DENSE.	1	2	7		13				2.64			74	60	24	
4	SS-4			SM			15	15	12												
5	SS-5	100					50		7												
6	SS-6	100				Sandy CLAY; grayish brown to light brown; 16% fine to coarse sand with traces of sub-rounded gravel; 78% high plasticity clay; FIRM To VERY STIFF.	7	7	7		19		57	27	2.61			94	90	84	
7	SS-7	100					2	4	3												
8	SS-8	100					6	8	8												
9	SS-9	100				Silty CLAY; grayish brown; 91% high plasticity clay with traces of fine sand; VERY STIFF.	7	7	12		22		62	42	2.60			100	99	98	
10	SS-10	100				Silty CLAY; brown; high plasticity clay with sub-angular gravel; HARD.	13	19	31												
11	SS-11	100					10	10	15												
12	SS-12	100		CH		Sandy CLAY; brown; 26% fine sand; 73% high plasticity clay; VERY STIFF.	7	9	12		25		55	34	2.61			100	99	99	
13	SS-13	100					6	8	8												
14	SS-14	100					6	7	8												
15	SS-15	100				Silty CLAY; brown; 94% high plasticity clay with little amount of fine to medium sand; VERY STIFF.	7	7	9		24		69	34	2.60			100	96		
16	SS-16	100					6	9	8												
17	SS-17	100					8	9	11												
18	SS-18	100				Silty CLAY; brown; 96% high plasticity clay with little amount of coarse sand. VERY STIFF To HARD.	8	10	13		58		68	48	2.60			100	96	96	
19	SS-19	100					14	14	16												
20	SS-20	100		ML		Clayey SILT; gray with traces of fine sand; slight plasticity; HARD. End of Borehole (20.00 m)	13	19	20												

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

MACHINE: **ACKER ACE**
DRILLER: **J. DAWI**
D. BAYON
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 (61/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 27**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 16.771**DEPTH OF WATER: **4.00** mLOCATION: **L. Bank, Santolan, Pasig**STATION NO.: **9 + 375**DATE MEASURED: **06 Jan. 2001**WEATHER: **FAIR**TIME MEASURED: **7:00 AM**BH NO: **BMLL-27** DATE DRILLED: **05 - 06 January 2001**COORDINATES: **1616881.500** N, **508597.250** 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 ²	STRAIN %	4	10	40	200	
1	SS-1	100		SC		Clayey SAND; brown; 47% high plasticity clay; 52% fine sand; LOOSE.	2	2	3		34		57	36	2.62				100	99	4	
2	SS-2	100		CH		Sandy CLAY; brown; 22% fine sand; 77% high plasticity clay; SOFT to STIFF.	2	2	2										100	99	7	
3	SS-3	100			2		1	1		36		65	43	2.61						100	99	7
4	SS-4	89			2		7	5														
5	SS-5	89			3		4	4														
6	SS-6	89		SP SM		Gravelly SAND; brownish gray; 16% angular gravel; 12% coarse sand; 66% fine to medium sand; traces of non-plastic silt; LOOSE.	3	2	2		15				2.64			84	72	32		
7	SS-7	89		GM		Silty Sandy GRAVEL; gray; 21% coarse sand; 15% medium sand with traces of fine sand; 43% sub-angular gravel; 15% non-plastic silt; MEDIUM DENSE to DENSE.	15	11	12													
8	SS-8	89			5		10	22														
9	SS-9	89			7		9	24		13				2.66				57	36	21		
10	SS-10	100			18		14	17														
11	SS-11	89		CH		Silty CLAY; grayish brown to brown; 88 - 94% high plasticity silty clay with traces of fine sand; Generally VERY STIFF.	8	11	10													
12	SS-12	89			8		12	11		41		74	50	2.60				100	99	98		
13	SS-13	89			8		12	12														
14	SS-14	89			11		14	18														
15	SS-15	89			9		11	12		33		67	44	2.60				99	98	97		
16	SS-16	89			11		10	12														
17	SS-17	94		ML		Clayey SILT; brown; traces of fine sand; slight plasticity; HARD.	31	43	7/2													
18						End of Borehole (16.87 m)																
19																						
20																						



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DRILLER: **R. ANDO**
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 (62/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 28**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.560**DEPTH OF WATER: **0.75**LOCATION: **L. Bank, Santolan, Pasig**STATION NO.: **9 + 650**DATE MEASURED: **19 Dec. 200**WEATHER: **FAIR**TIME MEASURED: **5:00 PM**BH NO: **BMLL-28** DATE DRILLED: **18 - 19 December 2000**COORDINATES: **1617140.650 N, 508741.650**

BH NO: 01																				
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 SIE		
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN M, %	4	10	40
1	SS-1	100		CH		Sandy CLAY; brown; 10% fine sand with traces of coarse to medium sand and gravel; 76% high plasticity clay; SOFT.	1	1	2		45	72	49	2.61			91	89	86	
2	SS-2	100					1	2	2											
3	SS-3	89					1	2	2		46	68	44	2.60					100	
4	SS-4	100					2	1	2											
5	SS-5	100					2	2	1											
6	SS-6	89		CL		Sandy CLAY; light gray to light brown; 16% coarse to medium sand; 10% fine sand with 16% sub-angular gravel; 58% low plasticity clay; STIFF to VERY STIFF.	3	5	9		41			2.61			84	76	68	
7	SS-7	89					4	6	22											
8	SS-8	100		CH		Silty CLAY; light gray to light brown; 91-98% high plasticity silty clay; STIFF to HARD.	4	5	7											
9	SS-9	100						6	8	9		33	79	50	2.60			100	99	
10	SS-10	100						7	7	11										
11	SS-11	100						10	12	12										
12	SS-12	100						13	15	15		25	59	38	2.60					100
13	SS-13	100					15	16	20											
14	SS-14	100					11	15	17											
15	SS-15	100					13	18	14		39	68	47	2.60			100	99		
16	SS-16	100					9	5	6											
17	SS-17	100					6	8	8											
18	SS-18	100		SM		Silty SAND; brown; fine sand; non-plastic silty fines; MEDIUM DENSE to DENSE.	7	10	11		50	66	46	2.61			100	99		
19	SS-19	100						10	10	12										
20	SS-20	100						18	22	23										
End of Borehole (20.00 m)							18	22	23											



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LEGEND:



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

Figure 5-3-3 (63/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 29**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 16.555**DEPTH OF WATER: **3.70**LOCATION: **L. Bank, Santolan, Pasig River**STATION NO.: **9 + 925**DATE MEASURED: **15 Dec, 200**WEATHER: **FAIR**TIME MEASURED: **8:45 AM**BH NO: **BMLL-29** DATE DRILLED: **14 - 15 December 2000**COORDINATES: **1617420.750** N, **508753.950**

BH NO: BMLL-29 DATE DRILLED: _____																									
DEPTH, m	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 % PASSING SIE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	
										10	20	30	40	50											
1	SS-1	100		SM		Silty SAND; brown; 23-27% non-plastic silt; 72-76% fine sand; VERY LOOSE.	1	2	2						36			2.63			100	99			
2	SS-2	100			1		1	2																	
3	SS-3	100			2		1	2										37			2.63			100	99
4	SS-4	100			2		1	2																	
5	SS-5	100		SP		SAND; dark gray; 25% medium sand; 71% fine sand with little amount of non-plastic silt; LOOSE.	2	2	3																
6	SS-6	100			3		2	3										33			2.63			100	99
7	SS-7	66		GP		Sandy GRAVEL; dark gray; fine sand with traces of non-plastic silt; sub-angular gravel; VERY DENSE.	10	25	25																
8	SS-8	100			7		8	11																	
9	SS-9	100		CH		Silty CLAY; grayish brown to light brown; 97% high plasticity clay; STIFF to VERY STIFF.	4	5	5						31		73	51	2.60			100	99		
10	SS-10	100			5		5	7																	
11	SS-11	100			5		6	8																	
12	SS-12	100			8	10	12		Sandy CLAY; light brown; 20% fine sand; 79% high plasticity clay; VERY STIFF.								32		76	49	2.60			100	99
13	SS-13	100			4	10	12																		
14	SS-14	100			10	18	24																		
15	SS-15	100			10	19	22		Silty CLAY; light brown; 97% high plasticity clay; HARD.								26		56	33	2.60			100	99
16	SS-16	100			9	15	21																		
17	SS-17	89			8	15	17																		
18	SS-18	100			12	17	18		Sandy CLAY; brown; 25% fine sand; 74% high plasticity clay; HARD.								36		58	32	2.61			100	99
19	SS-19	100			11	14	19																		
20	SS-20	100	13	15	20																				
End of Borehole (20.00 m)																									



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LEGEND:



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

Figure 5-3-3 (64/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 30**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Santolan, Pasig**BH NO: **BMLL-30** DATE DRILLED: **13 - 14 December 2000**GROUND ELEV.
(MLLW = Zero Datum) **+ 15.836**STATION NO.: **10 + 250**WEATHER: **FAIR**DEPTH OF WATER: **1.39** m.DATE MEASURED: **14 Dec. 2000**TIME MEASURED: **5:00 PM**COORDINATES: **1617,727.250** N, **508,792.100** E

BH NO: BOREHOLE NO.																						
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 ²	STRAIN N, %	4	10	40	200	
1	SS-1	100		SM		Silty SAND; brown; 27-46% non-plastic silt; 49-69% fine sand; LOOSE to MEDIUM DENSE.	2	2	3		31			2.63			99	99	96	27		
2	SS-2	96					2	4	3													
3	SS-3	100		GP		Sandy GRAVEL; gray; fine to medium sand; angular gravel; non-plastic; MEDIUM DENSE.	1	3	11		32			2.63			98	97	95	46		
4	SS-4	100					9	10	10													
5	SS-5	100		CH		Silty CLAY; light; 92% high plasticity silty clay with little amount of fine sand; STIFF to VERY STIFF.	12	12	13													
6	SS-6	100					4	5	8		27	58	30	2.61			100	99	97	92		
7	SS-7	100					7	9	10													
8	SS-8	100		GC		Clayey GRAVEL; light gray to light brown; 8% fine to coarse sand; 41% high plasticity clay; 51% angular gravel; MEDIUM DENSE to VERY DENSE.	6	8	10													
9	SS-9	100					11	12	14		36	56	25	2.64			49	47	43	41		
10	SS-10	98					15	22	14													
11	SS-11	100		SM		Silty SAND; brown; 30% non-plastic silt; 12% medium sand; 58% fine sand; DENSE to VERY DENSE.	16	20	24													
12	SS-12	100					22	30	10		29			2.63			100	88	30			
13	SS-13	100					28	29	8													
14	SS-14	100					22	24	25													
15	SS-15	79					13	15	35		30			2.63			100	99	98	37		
16						End of Borehole (14.92 m)																
17																						
18																						
19																						
20																						



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LEGEND:



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

Figure 5-3-3 (65/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 31**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Santolan, Pasig**BH NO: **BMLL-31** DATE DRILLED: **13 - 14 December 2000**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.832**STATION NO.: **10 + 460**WEATHER: **FAIR**DEPTH OF WATER: **1.20** m.DATE MEASURED: **19 Dec. 2000**TIME MEASURED: **5:00 PM**COORDINATES: **1617925.500** N, **508865.500** E

DEPTH, m	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 ²	STRAIN W, %	4	10	40	200
1	SS-1	67		CH		Sandy CLAY; brown to brownish gray; 12-25% fine sand, 73 - 85% medium to high plasticity clay; SOFT.	2	1	2		39	63	34	2.60				100	97	85	
2	SS-2	78		CH			1	1	2												
3	SS-3	89		GW		Gravelly SAND; brown; sub-angular gravel; fine to medium sand; LOOSE.	1	1	2		45	50	30	2.61				100	98	73	
4	SS-4	80		CL		Silty CLAY; grayish brown; slight to medium plasticity with traces of fine sand; STIFF.	1	2	4												
5	SS-5	71		SM		Silty SAND; brown; 26% medium sand; 39% fine sand; 30% non-plastic silt; DENSE.	7	5	5												
6	SS-6	56		SM			14	16	19		25				2.63			97	95	69	30
7	SS-7	56		CH		Sandy CLAY; brown to light brown; 11% fine sand with traces of medium sand; 81% high plasticity clay; HARD.	15	29	32												
8	SS-8	22		CH			15	20	35												
9	SS-9	67		CH			13	16	20		37	53	32	2.61				100	98	92	81
10	SS-10	67		CL		Sandy CLAY; light brown; 15% coarse sand; 13% medium sand with traces of fine sand; 24% sub-angular gravel; 39% low plasticity clay; HARD.	15	20	31												
11	SS-11	67		CL			13	27	36												
12	SS-12	50		CL			12	42	10		44				2.63			76	61	48	39
13	CR-1	8		CG	0	CONGLOMERATE; brownish gray; broken core; HARD.	CORING														
14	CR-2	5		CG	0		CORING														
15	CR-3	10		CG	0		CORING														
16						End of Borehole (15.00 m)															
17																					
18																					
19																					
20																					



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LEGEND:



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

Figure 5-3-3 (66/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 32**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 15.345**DEPTH OF WATER: **2.00** mLOCATION: **L. Bank, Calumpang, Marikina**STATION NO.: **10 + 850**DATE MEASURED: **27 Dec. 2000**WEATHER: **FAIR**TIME MEASURED: **5:00 PM**Borehole NO: **BMLL-32** DATE DRILLED: **22 - 26 December 2000**COORDINATES: **1617919.500** N, **509067.500** 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 ²	STRAIN %	4	10	40	200
SS-1	100		SM		Silty SAND; brown; 45% Fine sand; 59% fine sand with little amount of gravel and medium sand; 45% non-plastic silt; LOOSE To MEDIUM DENSE.	2	3	4		39				2.62			97	97	94	4
SS-2	78		SM		Silty SAND; brown; 12% sub-rounded gravel; 35% non-plastic silt; 16% medium sand and 34% fine sand with little amount of coarse sand; LOOSE.	3	5	5												
SS-3	67		CH			6	5	1		25				2.63			88	85	69	3
SS-4	89		CH		Gravelly CLAY; light brown; 19% sub-rounded gravel with traces of fine sand; 72% high plasticity clay; STIFF to VERY STIFF.	3	6	7												
SS-5	89		CH			9	10	10												
SS-6	100		SM			6	7	13		27	62	35	2.61				81	80	79	72
SS-7	66		SM			9	11	12												
SS-8	100		SM		Silty SAND; brown; 46% low plasticity silt; 51% fine sand; MEDIUM DENSE to DENSE.	16	17	17												
SS-9	100		SM			9	10	13		34				2.62			99	99	97	46
SS-10	100		SM			11	13	15												
SS-11	100		CH			8	14	14												
SS-12	100		CH			10	15	16		29	50	26	2.61				100	98	78	
SS-13	89		CH			14	21	21												
SS-14	89		CH		Sandy CLAY; brown to gray; 20-34% fine sand, 66-78% high plasticity clay; HARD.	13	18	20												
SS-15	44		CH			11	16	22		28	55	33	2.61				100	66*		
SS-16	78		CH			15	21	32												
SS-17	56		CH			16	18	23												
					End of Borehole (17.00 m)															

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LEGEND:



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

Figure 5-3-3 (67/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 33**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Calumpang, Marikina**BH NO: **BMLL-33** DATE DRILLED: **03 - 05 January 2001**GROUND ELEV.
(MLLW = Zero Datum) **+ 13.225**STATION NO.: **11 + 150**WEATHER: **FAIR**DEPTH OF WATER: **1.00**DATE MEASURED: **05 Jan. 2001**TIME MEASURED: **5:00 PM**COORDINATES: **1617681.500 N, 509245.100 E**

BH NO.:		DATE:		PROJECT:		SHEET NO.:		SHEET TOTAL:																	
DEPTH, m	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 SIEV			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %, %	4	10	40	200
										10	20	30	40	50											
1	SS-1	89		CH		Sandy CLAY; brown; 32% fine sand; 67% high plasticity clay; SOFT.	3	1	1						49		57	36	2.61				100	99	
2	SS-2	33				Sandy CLAY; brown; 27% fine sand with little amount of gravel and coarse to medium sand; 63% high plasticity clay; SOFT.	1	1	1																
3	SS-3	67					1	1	1						38		54	35	2.61			96	94	90	
4	SS-4	22					5	5	5																
5	SS-5	22				Sandy CLAY; brownish gray to brown; 29% fine sand with little amount of medium sand; 63% high plasticity clay; STIFF.	5	6	4																
6	SS-6	44					5	6	7						33		55	37	2.61			99	98	92	
7	SS-7	44					6	7	8																
8	SS-8	67					6	7	8																
9	SS-9	78					Silty CLAY; light brown to grayish brown; contains little amount of medium to coarse sand and traces of fine sand; 85% high plasticity silty clay; VERY STIFF to HARD.	7	9	10					39		59	32	2.60			99	97	94	
10	SS-10	78						9	14	20															
11	SS-11	80						12	16	23															
12	SS-12	89		ML		Gravelly SILT; brown; 14% sub-angular gravel with 10% fine sand and traces of medium to coarse sand; 67% medium plasticity silt; VERY STIFF.	6	7	9						22		51	30	2.61			86	81	77	
13	SS-13	89					7	11	17																
14	SS-14	78		SM		Silty SAND; brown; 38% non-plastic silt; 57% fine sand with little amount of medium sand; DENSE to VERY DENSE.	15	20	27																
15	SS-15	78					17	21	32						28				2.63			99	98	95	
16						End of Borehole (15.00 m)																			
17																									
18																									
19																									
20																									



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

MACHINE: **ACKER ACE**
DRILLER: **D. ANDOYO**
D. SAYSON
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 (68/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 34**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Calumpang, Marikina**BH NO: **BMLL-34** DATE DRILLED: **27 - 28 December 2000**GROUND ELEV.
(MLLW = Zero Datum) **+ 15.942**STATION NO.: **11 + 450**WEATHER: **FAIR**COORDINATES: **1617462.100 N, 509451.100 E**DEPTH OF WATER: **1.00**DATE MEASURED: **28 Dec. 2000**TIME MEASURED: **7:00 AM**

BH NO: BMLL-34 DATE DRILLED: 000-101-100																						
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 ²	STRAIN W, %	4	10	40	200	
1	SS-1	78		CH		Sandy CLAY; brown; 20% fine sand; 79% high plasticity clay; FIRM To STIFF.	2	2	2			31	57	30	2.61			100	99	99		
2	SS-2	78			Sandy GRAVEL; brown; 14% coarse sand; 17% medium sand with traces of fine sand; 59% sub-rounded and sub-angular gravel; MEDIUM DENSE.	5	5	6				8			2.65			41	27	10		
3	SS-3	44		GM			5	7	8													
4	SS-4	56					4	6	7													
5	SS-5	78		CH		Silty CLAY; light grayish brown; 99% high plasticity silty clay; STIFF to VERY STIFF.	4	5	6													
6	SS-6	67					4	4	6			30	82	57	2.60			100	99			
7	SS-7	78					5	5	6													
8	SS-8	44					7	9	13													
9	SS-9	100		CH		Gravelly CLAY; brown; 22% sub-rounded gravel; 14% fine to coarse sand; 64% high plasticity clay; VERY STIFF To HARD.	9	12	15			23	57	35	2.62			78	70	66		
10	SS-10	89					11	13	17													
11	SS-11	78				CL	Sandy CLAY; dark brown to brown; 25% fine sand with little amount of coarse to medium sand; 67% high plasticity clay; VERY STIFF to HARD.	17	21	19												
12	SS-12	67					14	15	15			32	57	36	2.61			99	96	92		
13	SS-13	78		CH		Sandy CLAY; brown to gray; 17-29% fine sand; 71-80% high plasticity clay; HARD.	14	14	17													
14	SS-14	89					10	14	15													
15	SS-15	89					11	14	16			30			2.61				100		7	
16	SS-16	100					14	17	18													
17	SS-17	89		CH			13	18	18													
18	SS-18	67					15	20	22			29	63	40	2.61			99	98	97	8	
19	SS-19	67				ML	Sandy SILT; dark gray; fine sand; non-plastic silt; HARD.	17	27	31												
20	SS-20	56					End of Borehole (20.00 m)	19	29	35												

End of Borehole (20.00 m)



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MACHINE: **ACKER ACE**DRILLER: **D. ANDOYO**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 (69/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 35**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 15.103**DEPTH OF WATER: **4.00** m.LOCATION: **L. Bank, Calumpang, Marikina**STATION NO.: **11 + 750**DATE MEASURED: **29 Dec. 2000**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**H NO: **BMLL-35** DATE DRILLED: **22 - 29 December 2000**COORDINATES: **1617345.500** N, **509768.500** 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 ²	STRAIN M, %	4	10	40	200
											10	20	30	40	50											
SS-1	89				CH		Sandy CLAY; brown; 29% fine sand; 65% high plasticity clay; SOFT.	1	1	1						45		56	35	2.61			98	96	94	65*
SS-2	100				GM		Sandy GRAVEL; grayish brown; 28% medium to coarse sand with traces of fine sand; 46% sub-rounded gravel; 18% non-plastic silt; VERY DENSE.	2	1	2																
SS-3	89							25	25	25						20				2.64			54	39	26	18
SS-4	89							4	5	6																
SS-5	89				CH		Silty CLAY; grayish brown; 88% high plasticity silty clay with 11% fine to coarse sand; FIRM to STIFF.	4	4	3																
SS-6	89							2	3	4						33		71	39	2.60			99	96	92	88*
SS-7	89							6	6	7																
SS-8	100							9	13	15																
SS-9	100				CL		Gravelly CLAY; brown; 5% medium sand with traces of fine sand and little amount of coarse sand; 27% sub-angular gravel; 57% medium plasticity clay; VERY STIFF to HARD.	13	14	17						26		49	24	2.62			73	70	65	57*
SS-10	100							16	15	18																
SS-11	100							13	13	17																
SS-12	89				CH		Sandy CLAY; brown to grayish brown; 10% fine sand with little amount of medium sand and sub-angular gravel; 80% high plasticity clay; HARD.	11	18	19						28		53	31	2.61			95	94	90	80*
SS-13	100							10	15	18																
SS-14	89							11	16	20																
SS-15	67							14	18	30						27				2.63			100	99	37	
SS-16	89						Silty SAND; brown; 62% fine sand; 37% non-plastic silt; DENSE.	15	19	31																
SS-17	67				SM			9	15	19																
SS-18	67						Silty SAND; brown; 53% medium to fine sand with little amount sub-rounded gravel and coarse sand; 40% non-plastic silt; DENSE.	8	17	22						27				2.62			97	93	82	40
SS-19	67							14	14	18																
SS-20	89						End of Borehole (20.00 m)	15	15	20																

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M. VILLAFUERTE**

LEGEND:



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

Figure 5-3-3 (70/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 36**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.634**DEPTH OF WATER: **1.20** m.LOCATION: **L. Bank, Calumpang, Marikina**STATION NO.: **12 + 140.00**DATE MEASURED: **22 Dec. 2000**WEATHER: **FAIR**TIME MEASURED: **9:00 AM**NO: **BMLL-36** DATE DRILLED: **21 - 23 December 2000**COORDINATES: **1617662.500** N, **509999.950** 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 ²	STRAIN %	4	10	40	200
SS-1	67		CH		Sandy CLAY; brown; 13-15% fine sand; 79-85% high plasticity clay; FIRM To VERY SOFT.	4	3	2		32	58	35	2.60				99	99	98	85
SS-2	67					1	1	1												
SS-3	67					1	1	1		28	57	34	2.61				99	98	94	75
SS-4	44		SW		Gravelly SAND; grayish brown; sub-rounded gravel; fine to coarse sand; non-plastic silty fines; DENSE.	9	10	12												
SS-5	78					10	14	14												
SS-6	100					2	4	6		37	61	36	2.60				99	98	97	9
SS-7	100				Silty CLAY; brown to gray; 84 - 95% high plasticity silty clay; traces of fine sand; STIFF To HARD.	10	12	12												
SS-8	100					8	13	15												
SS-9	56					7	8	13		26	63	42	2.60				100	99	98	5
SS-10	100					8	13	16												
SS-11	67		CH			10	12	15												
SS-12	100					9	13	16		30	63	42	2.60				97	95	93	
SS-13	100					4	8	12												
SS-14	100					5	5	8												
SS-15	100					6	12	18		34	67	39	2.60						100	
SS-16	100					8	14	17												
SS-17	100					13	10	20												
SS-18	100					8	10	14		38	65	37	2.60				100	99		
SS-19	100					6	13	18												
SS-20	100				End of Borehole (20.00 m)	10	12	16												



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MACHINE: **ACKER ACE**
DRILLER: **J. DAWI**
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 (71/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 37**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.450**DEPTH OF WATER: **1.25** mLOCATION: **L. Bank, Sta. Elena, Marikina**STATION NO.: **12 + 350**DATE MEASURED: **21 Dec. 2000**WEATHER: **FAIR**TIME MEASURED: **11:00 AM**NO: **BMLL-37** DATE DRILLED: **19 - 20 December 2000**COORDINATES: **1617886.100** N, **510052.750** 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 ²	W _L , %	4	10	40	200
SS-1	100		CH		Sandy CLAY; brown; 11% fine sand; 88% high plasticity clay; VERY SOFT.	2	2	1		23		67	47	2.60			100	99	99	8
SS-2	100					1	0	0												
SS-3	100					1	0	0		23		70	49	2.60			100	99	99	8
SS-4	67		GC		Clayey GRAVEL; brownish gray; approximately low plasticity clayey fines; sub-angular gravel; LOOSE to MEDIUM DENSE.	7	4	3												
SS-5	67																			
SS-6	100				Silty CLAY; grayish brown; 89% high plasticity silty clay with 11% fine to coarse sand; VERY STIFF to HARD.	9	8	11		18		66	45	2.60			100	97	93	8
SS-7	100					9	13	19												
SS-8	100		CH			5	6	9												
SS-9	100				Sandy CLAY; grayish brown to brown; 19% fine sand with little amount of medium sand; 76% high plasticity clay; VERY STIFF.	5	7	10		18		61	39	2.61			100	99	95	
SS-10	100					6	7	14												
SS-11	100					7	8	13												
SS-12	86		SP		Silty Gravelly SAND; grayish brown; 36% sub-angular gravel; 45% medium to coarse sand with traces of fine sand; 10% non-plastic silt; VERY DENSE.	22	31	19	5	13				2.65			64	42	19	
SS-13	61		SM			19	40	10	3											
SS-14	65					20	45	5	1											
SS-15	71		CH		Sandy CLAY; brown; 12% fine sand; 87% high plasticity clay; HARD.	25	35	15	5	23		64	44	2.60			100	99		
SS-16	78					18	20	30												
					End of Borehole (16.00 m)															
17																				
18																				
19																				
20																				



BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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MACHINE: **ACKER ACE**DRILLER: **J. DAWI**SUPERVISOR: **M. ESTAURA**

LEGEND:



SS - SPLIT SPOON SAMPLE



WS - WASH SAMPLE



UDS - UNDISTURBED SAMPLE



CR - CORE SAMPLE



W - HYDROMETER ANALYSIS

Figure 5-3-3 (72/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 38**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**LOCATION: **L. Bank, Sta. Elena, Marikina**BH NO: **BMLL-38** DATE DRILLED: **17 - 19 December 2000**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.793**STATION NO.: **12 + 650**WEATHER: **FAIR**DEPTH OF WATER: **0.90** mDATE MEASURED: **19 Dec. 2000**TIME MEASURED: **12:00 NN**COORDINATES: **1618191.125** N, **509999.750** E

BH NO: 01																							
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 ²	STRAIN M, %	4	10	40	200		
1	SS-1	100		CH		Sandy CLAY; brown to dark gray; 25-36% fine sand; 64-75% high plasticity clay; VERY SOFT.	1	0	1			34	50	31	2.61					100	6		
2	SS-2	67					1	0	0														
3	SS-3	100					2	1	1			40		61	40	2.61					100	7	
4	SS-4	100					2	1	1														
5	SS-5	100					2	1	1														
6	SS-6	100				Silty CLAY; grayish brown to brown; 5-8% fine sand; 89-93% high plasticity silty clay; STIFF to HARD.	3	4	6		69	76	49	2.60			100	99	98	9			
7	SS-7	100					6	9	14														
8	SS-8	100					7	13	21														
9	SS-9	100					4	6	13			30		73	46	2.60			100	99	98	9	
10	SS-10	100					8	12	12														
11	SS-11	100					5	7	10														
12	SS-12	100					5	5	8			9		69	49	2.60			99	98	97	1	
13	SS-13	71					18	27	23/12														
14	SS-14	60		GP GM		Silty Sandy GRAVEL; brown; 47% gravel; 15% coarse sand; 11% medium sand; 17% fine sand; 10% non-plastic silt; VERY DENSE.	12/38	10															
15	SS-15	100					25/25	5			12		12			2.64			53	38	27	1	
16	SS-16	56					22/28	12															
17	SS-17	60					20/30	10															
18	SS-18	60					20/30	10															
19						End of Borehole (17.80 m)																	
20																							



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LEGEND:



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

Figure 5-3-3 (73/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 39**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLW = Zero Datum) **+ 14.727**DEPTH OF WATER: **2.50**LOCATION: **L. Bank, Sta. Elena, Marikina**STATION NO.: **12 + 810.00**DATE MEASURED: **16 Dec. 2000**BH NO: **BMLL-39** DATE DRILLED: **15 - 16 December 2000**WEATHER: **FAIR**TIME MEASURED: **4:00 PM**COORDINATES: **1618372.500 N, 509981.100**

DEPTH, m	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		
							15 cm	15 cm	15 cm				LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40
1	SS-1	67		CH		Sandy CLAY; brown; 15% fine sand with traces of gravel and little amount of coarse to medium sand; 69% high plasticity clay; SOFT.	2	2	2		37		55	33	2.62			93	90	84
2	SS-2	78		SM		Gravelly Silty SAND; gray; 42% non-plastic silt; 30% coarse to medium sand with traces of fine sand and 12% sub-rounded gravel; MEDIUM DENSE To LOOSE.	10	5	9											
3	SS-3	78					2	1	3		29				2.65			88	73	58
4	SS-4	100					2	2	2											
5	SS-5	100				Silty CLAY; gray; 87% high plasticity silty clay with traces of gravel and little amount of coarse sand; STIFF To FIRM.	2	3	2											
6	SS-6	100					5	5	9		43		64	31	2.61			93	89	88
7	SS-7	100					2	3	2											
8	SS-8	100		CH			2	2	2											
9	UDS-1	100					PRESSED				43	1.71	64	42	2.60	Cc 0.355	Pc 1.890			100
10	SS-9	89				Silty CLAY; gray to dark gray; 93-98% high plasticity silty clay with little amount of fine sand; FIRM To VERY STIFF.	2	2	2		45		68	43	2.60			100	99	98
11	UDS-2	100					PRESSED				50	1.71	62	41	2.61	Cc 0.295	Pc 1.440	98	97	96
12	SS-10	100					2	2	3											
13	SS-11	67					14	14	12											
14	SS-12	67					12	11	8		14				2.64			76	49	34
15	SS-13	100					4	6	12											
16	SS-14	44		GP		Silty Gravelly SAND; gray to dark gray; 24-28% sub-rounded gravel; 27-39% coarse sand; 15-21% medium sand; 10-22% fine; 6-12% non-plastic silt; MEDIUM DENSE To VERY DENSE.	14	25	27											
17	SS-15	44					12	24	27		13				2.64			72	40	20
18	SS-16	44					18	25	25											
19	SS-17	44					19	22	24											
20	SS-18	44				End of Borehole (20.00 m)	15	18	27		13				2.64			76	37	16



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

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

LEGEND:



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

Figure 5-3-3 (74/221) BORING LOGS (PHASE I)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MLL - 40**PROJECT: **Pasig-Marikina River Channel Imp. Proj.**GROUND ELEV.
(MLLW = Zero Datum) **+ 14.930**DEPTH OF WATER: **2.10**LOCATION: **L. Bank, Sta. Elena, Marikina**STATION NO.: **13 + 200**DATE MEASURED: **16 Dec. 2000**Borehole No: **BMLL-40** DATE DRILLED: **15 - 16 December 2000**WEATHER: **FAIR**TIME MEASURED: **8:00 AM**COORDINATES: **1618737.750 N, 509905.750**

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 ²	STRAIN %	4	10	40
1	SS-1	100	CH		Sandy CLAY; dark brown to dark gray; 20-38% fine sand; 62-79% high plasticity clay; FIRM to STIFF.	1	3	4		25				2.61					100
2	SS-2	100				2	3	4											
3	SS-3	100				3	3	3		28		61	37	2.61				100	99
4	SS-4	100				3	5	4											
5	SS-5	100				5	4	5											
6	SS-6	100				4	5	6		11		51	28	2.61				100	100
7	SS-7	100			Silty CLAY; dark gray; 97% high plasticity silty clay with little amount fine sand; FIRM.	3	5	3											
8	SS-8	100	ML			3	5	3											
9	SS-9	100				2	2	3		18		73	55	2.60					100
10	SS-10	100				3	4	3											
11	SS-11	100	SM		Sandy SILT; dark gray; 32% medium to fine sand with traces of coarse sand and sub-angular gravel; 52% low plasticity silt; LOOSE.	3	3	3											
12	SS-12	100				3	3	4		18				2.62			92	84	64
13	SS-13	100				3	3	5											
14	SS-14	100	SM		Silty Gravelly SAND; dark gray; 19% coarse sand; 27% medium sand; 10% fine sand; 26% sub-angular gravel with 18% non-plastic silt; DENSE.	8	18	20											
15	SS-15	78				16	17	23		10				2.63			74	55	28
16					End of Borehole (15.00 m)														
17																			
18																			
19																			
20																			



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LEGEND:



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

Figure 5-3-3 (75/221) BORING LOGS (PHASE I)