

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 19**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Ugong, Pasig City
BH NO: BMRL-19 **DATE DRILLED:** 08 - 09 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 16.865
STATION NO.: 5 + 400
WEATHER: FAIR

DEPTH OF WATER: 2.00 m
DATE MEASURED: 09 Feb. 2001
TIME MEASURED: 7:00 AM

COORDINATES: 1614,799.100 N, 508,710.100 E

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 SIEVE							
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200				
1	UDS-1	67		CH		Sandy CLAY; gray to grayish brown; 18-21% fine sand; traces of gravel and coarse to medium sand; 65-78% high plasticity clay; VERY SOFT TO HARD.				PRESSED					41	57	37	2.61			99	97	96	78*					
2	SS-1	61		SW		Gravelly SAND; dark gray; 23% non-plastic fill; 32% angular gravel; 13% coarse sand; 17% medium sand; 15% fine sand; VERY DENSE.	16	23	13											47	58	36	2.62			93	91	86	65*
3	SS-2	58					18	28	13										23			2.64			68	55	38	23	
4	CR-1	56			51														21	1.70					63.644	2.688			
5	CR-2	56			35														19	1.81					72.093	2.747			
6	CR-3	51			25														19	1.77					78.409	2.157			
7	CR-4	58		CG	34	CONGLOMERATE; buff; moderately weathered; well cemented; broken; HARD TO VERY HARD.													22	1.67					78.257	2.788			
8	CR-5	60			45														25	1.67					83.366	1.882			
9	CR-6	55			0																								
10	CR-7	52			39														24	1.74					142.061	3.613			
11	CR-8	37			25														38	1.71					155.402	4.348			
12	CR-9	40			11														19	1.70					60.811	2.682			
13	CR-10	12			0																								
14	CR-11	17		SS	0	SILTSTONE; light brown; moderately weathered; VERY SOFT to SOFT.																							
15	CR-12	16			0																								
16						End of Borehole (15.00 m)																							



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

MACHINE: ACKER ACE
DRILLER: J. MOGOL
SUPERVISOR: M. ESTAURA

LEGEND:
 SS - SPLIT SPOON SAMPLE
 UDS - UNDISTURBED SAMPLE
 CR - CORE SAMPLE
 W/HYDROMETER ANALYSIS

図5-3-3 (131/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 20**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: R. Bank, Bagumbayan, Pasig
BH NO: BMRL-20 **DATE DRILLED:** 02 - 03 February 2001
GROUND ELEV. (MLLW = Zero Datum): + 11.382
STATION NO.: 5 + 700
WEATHER: FAIR
COORDINATES: 1615,118.500 N, 508,825.500 E
DEPTH OF WATER: 1.50 m.
DATE MEASURED: 03 Dec. 2000
TIME MEASURED: 4:00 PM

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 SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	100		CH		Silty CLAY; gray; 83% high plasticity silty clay; traces of fine sand and little amount of gravel; FIRM.	1	2	4	10	20	30	40	50	48	57	35	2.81			95	94	82	83*	
2	SS-2	100		SM		Silty SAND; brownish gray; 14% non-plastic silt; 83% fine sand; LOOSE.	4	4	5						30			2.83			100	97	14		
3	SS-3	100				Silty SAND; light gray; 34% non-plastic silt; 19% medium sand; 46% fine sand; DENSE.	7	10	20						26			2.83			100	98	80	34	
4	SS-4	100		GM		Gravelly SAND; brownish gray; 19-25% non-plastic silt; 9-33% sub-angular gravel; 9-13% coarse sand; 20-41% medium fine sand; 19-21% fine sand; DENSE.	20	20	28						19			2.85			87	58	38	18	
5	SS-5	89					20	23	23						23			2.84			81	82	41	20	
6	SS-6	78		LT		Lapilli TUFF; buff to light gray; with lapilli; moderately weathered; medium strong rock; fairly lightly fractured; moderately HARD.	18	21	27						24			2.84			79	86	44	25	
7	CR-1	45			0		CORING																		
8	SS-7	48		CH		Sandy CLAY; brown; 18% fine sand; 81% high plasticity clay; HARD.	10	26	24/11																
9	SS-8	63		LT		Lapilli TUFF; buff to light gray; with abundant lapilli; moderately weathered; medium strong rock fairly lightly fractured;	18	28	22/10						35	58	31	2.81			100	99	81*		
10	CR-2	30			8		CORING								12	1.83				54472	3330				
11	SS-9	75					15	28	24/10						28			2.84			73	48	27	15	
12	SS-10	80		SW		Gravelly SAND; brownish gray; 21-27% angular gravel; 19-27% coarse sand; 19-21% medium fine sand; 12-21% fine sand; 15-18% non-plastic silt; VERY DENSE.	12	28	22/9																
13	SS-11	73					18	30	20/10																
14	SS-12	86					18	28	22/8						22			2.84			78	80	39	18	
15	SS-13	50		LT		Lapilli TUFF; buff to light gray; with lapilli; moderately weathered; medium strong rock; fairly highly fractured; Moderately HARD.	20	25	25/10																
16	CR-3	97			12		CORING								22	1.89				9148	3018				
17						End of Borehole (16.00 m)																			

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

図5-3-3 (132/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 22**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 15.721 **DEPTH OF WATER:** 1.00 m.
LOCATION: R. Bank, Manggahan, Pasig City **STATION NO.:** 6 + 150 **DATE MEASURED:** 31 Jan. 2001
BH NO: BMRL-22 **DATE DRILLED:** 30 - 31 January 2001 **WEATHER:** FAIR **TIME MEASURED:** 6:00 PM
COORDINATES: 1614,877.500 N, 509,249.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g _{sec}	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 %	4	10	40	200
								10	20	30	40	50														
1	SS-1	89			SM		Silty SAND; grayish brown; 16% non-plastic silt; 22% medium sand; 56% fine sand with little amount of coarse sand; SOFT.	1	1	1								2.83			88	94	72	16		
2	SS-2	78						1	1	1																
3	SS-3	89					Silty CLAY; gray; 95% high plasticity silty clay; SOFT.	1	0	2									2.80			100	98	95*		
4	SS-4	89						2	1	2																
5	SS-5	89			CH		Sandy CLAY; gray; 25-30% fine sand with traces of medium sand; 55-67% high plasticity clay; STIFF TO VERY STIFF.	2	4	4									2.81			100	98	92	67*	
6	SS-6	89						5	6	9																
7	SS-7	89						9	11	12																
8	SS-8	89						7	11	17																
9	SS-9	89			CH		Gravelly CLAY; brown; 17% sub-angular gravel; traces of coarse to fine sand; 71% high plasticity clay; HARD.	11	20	20										2.81			83	78	74	71*
10	SS-10	89						8	11	13																
11	SS-11	89						9	10	14																
12	SS-12	89			CH		Silty CLAY; grayish brown; 91-97% high plasticity silty clay; with little amount of fine sand; MEDIUM DENSE.	7	9	11										2.80			100	98	98	97*
13	SS-13	89						6	8	12																
14	SS-14	89						8	11	15																
15	SS-15	66			SM		Silty SAND; light brown; 33% non-plastic silt; 23% medium fine sand; 43% fine sand; VERY DENSE.	25	50	14										2.83			100	98	78	33*
15							End of Borehole (14.84 m)																			







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

図5-3-3 (134/221) 柱状図 (フェーズI実施分)

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

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 13.494 **DEPTH OF WATER:** 1.00 m.
LOCATION: R. Bank, Brgy. Manggahan, Pasig **STATION NO.:** 6 + 650 **DATE MEASURED:** 27 Jan. 2001
BH NO: BMRL-23 **DATE DRILLED:** 26 - 27 January 2001 **WEATHER:** FAIR **TIME MEASURED:** 10:00 AM
COORDINATES: 1614,781.750 N, 509,530.750 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/100	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 %	4	10	40	200
1	SS-1	89		SM		Silty SAND; brownish gray; 53% fine sand with 36% non-plastic silt; poorly graded; LOOSE.	1	1	3						36			2.83			99	97	89	36	
2	SS-2	89				Gravelly SAND; brownish gray to gray; 27% coarse sand; 23% medium sand; 38% sub-rounded to angular gravel; non-plastic silt; LOOSE TO MEDIUM DENSE.	7	5	7																
3	SS-3	56		GP			13	5	3						10			2.84			82	35	12	4	
4	SS-4	56					7	5	6																
5	SS-5	60					4	3	4																
6	SS-6	100				CLAY; gray; 97% very high plasticity fines; FIRM.	3	2	2						58		79	62	2.60			100	99	96	97*
7	SS-7	100		CH		Gravelly Sandy CLAY; dark gray; 41% high plasticity clay with 43% coarse to fine sand; 16% angular gravel; SOFT.	2	3	3																
8	UDS-1	100					PRESSED																		
9	SS-8	89				Silty CLAY; dark gray; high plasticity clay; traces of fine sand; presence of decayed wood; FIRM.	2	2	3																
10	UDS-2	100		GC		Sandy Clayey GRAVEL; dark gray; 38% angular gravel; 35% highly plastic fines; 17% coarse sand; LOOSE.																			
11	SS-9	89		CH		Sandy CLAY; dark gray; 11% fine sand; 78% high plasticity clay. VERY STIFF.	8	11	13																
12	SS-10	89		SM		Gravelly Silty SAND; dark brownish gray; 21% sub-angular gravel; 36% non-plastic silt; 17% coarse sand, 17% medium sand; traces of fine sand; MEDIUM DENSE TO DENSE.	9	12	18																
13	SS-11	89				Silty Sandy GRAVEL; dark brown; 22% non-plastic silt, 9% fine sand, 17% medium sand with traces of fine sand; 40% sub-angular gravel; DENSE TO VERY DENSE.	9	19	23																
14	SS-12	89		GP			18	18	27																
15	SS-13	100		GM			30	30	g																
15	End of Borehole (14.94 m)																								

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

図5-3-3 (135/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 24**

PROJECT: Pasig-Marikina River Channel Imp. Proj.
 LOCATION: R. Bank, Libis, Quezon City
 BH NO: BMRL-24 DATE DRILLED: 12 January 2001
 GROUND ELEV. (MLLW = Zero Datum) + 15.748
 STATION NO.: 8 + 450
 WEATHER: FAIR
 DEPTH OF WATER: 1.80
 DATE MEASURED: 12 Jan. 2001
 TIME MEASURED: 10:00 PM
 COORDINATES: 1616,058.750 N, 508,412.500

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	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 %	4	10	40	
1	SS-1	89	[Symbol]	CH		Sandy CLAY; brown; 13-18% fine sand; with little amount of gravel and coarse to medium sand; 72-81% high plasticity clay; SOFT TO FIRM.	1	1	1					41		53	30	2.81			94	92	90		
2	SS-2	100	[Symbol]	CH			2	2	4																
3	SS-3	100	[Symbol]	ML		Sandy SILT; gray; 37% fine sand with traces of medium sand; 54% non-plastic silt; STIFF.	2	2	3					36		57	33	2.81			98	96	94		
4	SS-4	100	[Symbol]	ML			4	5	6					25			2.82			99	98	91			
5	SS-5	100	[Symbol]	SM		Silty SAND; gray to brown; 15-19% non-plastic silt; 21-23% medium sand; 52-64% fine sand; MEDIUM DENSE.	5	8	8									2.83			98	94	71		
6	SS-6	100	[Symbol]	SM			6	7	8					20											
7	SS-7	100	[Symbol]	SM			8	12	12					21											
8	SS-8	100	[Symbol]	CH		Sandy CLAY; brown; 14% fine sand with traces of medium sand; 76% high plasticity clay; HARD.	15	20	21					32		54	28	2.81			100	99	90		
9	SS-9	87	[Symbol]	SM		Silty SAND; brown; 20% coarse sand; 43% medium sand; 16% fine sand; with little amount of gravel; 16% non-plastic silt; DENSE TO VERY DENSE.	17	18	18					14				2.84			95	75	32		
10	SS-10	100	[Symbol]	SM			23	26	12																
11	SS-11	100	[Symbol]	SM			24	27	10																
12	SS-12	100	[Symbol]	CH		Silty CLAY; brown to gray; 93-98% high plasticity silty clay; HARD.	26	29	10					26		73	42	2.80			100	99			
13	SS-13	100	[Symbol]	CH			18	28	23					37		87	36	2.80			100	88			
14	SS-14	89	[Symbol]	SM		Silty SAND; gray; 20% non-plastic silt; 70% fine sand; with little amount of coarse to medium sand; LOOSE.	2	2	3					34				2.83			99	95	90		
15	SS-15	100	[Symbol]	SM		Sandy CLAY; gray; 23% fine sand; 75% high plasticity clay; VERY STIFF TO HARD.	12	13	15					37		69	36	2.81			100	98			
16	SS-16	100	[Symbol]	SM			13	15	16																
17	SS-17	100	[Symbol]	CH			12	13	13																
18	SS-18	100	[Symbol]	CH		Silty CLAY; gray; 93% high plasticity clay with little amount of fine to medium sand; VERY STIFF TO HARD.	13	12	14					53		63	31	2.80			100	99	95		
19	SS-19	100	[Symbol]	CH			20	21	21																
20	SS-20	67	[Symbol]	CH			28	22	23																



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

MACHINE: ACKER ACE
 DRILLER: R. CASCAYAN
JIMENEZ
 SUPERVISOR: M. ESTAURA
M. VILLAFUERTE

LEGEND:

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

図5-3-3 (136/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 24b**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) + 15.748	DEPTH OF WATER: 1.80 m.
LOCATION: R. Bank, Libis, Quezon City	STATION NO.: 8 + 450	DATE MEASURED: 12 Jan. 2001
BH NO: BMRL-24 DATE DRILLED: 12 January 2001	WEATHER: FAIR	TIME MEASURED: 10:00 PM
COORDINATES: 1610,058.750 N, 508,412.500 E		

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/cc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE) 10 20 30 40 50							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
21	SS-21 89			CH		Sandy Silty CLAY; gray; 83% high plasticity clay with fine to medium sand; HARD.	20	18	22						45		61	39	2.60			98	97	83	83*
21						END OF BOREHOLE (21.00 m)																			
22																									
23																									
24																									
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	BASIC TECHNOLOGY AND MANAGEMENT CORPORATION	MACHINE: ACKER ACE	LEGEND: SS - SPLIT SPOON SAMPLE WS - WASH SAMPLE UDS - UNDISTURBED SAMPLE CR - CORE SAMPLE W/ HYDROMETER ANALYSIS
	2nd Floor Prudential Bank Building,	DRILLER: R. CASCAYAN	
	1377 A. Mabini St., Ermita, Manila	SUPERVISOR: M. VILLAFUERTE	

図5-3-3 (137/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 25**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 16.032 **DEPTH OF WATER:** 1.00 m.
LOCATION: R. Bank, Libis, Quezon City **STATION NO.:** 8 + 800 **DATE MEASURED:** 11 Jan. 2001
BH NO: BMRL-25 **DATE DRILLED:** 10 - 11 January 2001 **WEATHER:** FAIR **TIME MEASURED:** 10:30 AM
COORDINATES: 1616,429.750 N, 508,251.250 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	RCD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)				NATURAL MOIST. CONTENT, %	TOTAL LIMIT 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 ²	STRAIN %, %	4	10	40	200		
1	SS-1	89				Sandy CLAY; brown to grayish brown; 7-16% fine sand; 84-93% high plasticity clay; SOFT.	2	1	1					38	58	38	2.80						100	84		
2	SS-2	100					1	1	1																	
3	SS-3	100					1	1	2						55	68	45	2.60						100	93	
4	SS-4	100					1	2	2																	
5	SS-5	100				Sandy CLAY; gray to light brown; 15% fine sand; 81% high plasticity clay; VERY STIFF.	2	9	10																	
6	SS-6	100		CH			10	14	16						31	57	32	2.61					99	97	96	81
7	SS-7	67					16	14	14																	
8	SS-8	100				Silty CLAY; light brown; traces of medium fine to fine sand; with little amount of gravel and coarse sand; HARD TO VERY STIFF.	5	7	9																	
9	SS-9	100					39	29	21						27	58	37	2.61					97	94	85	77
10	SS-10	100					13	16	17																	
11	SS-11	100				Silty SAND; brown; 14% non-plastic silt; 35% medium sand; 50% fine sand; DENSE.	5	8	15																	
12	SS-12	78		SM			16	16	20						27			2.63					100	99	84	14
13	SS-13	78				Silty CLAY; grayish brown to brown; 97% high plasticity silty clay; with little amount of fine sand; HARD.	30	29	21																	
14	SS-14	100		CH			28	28	24																	
15	SS-15	89					20	20	21						38	75	45	2.60						100	97	
16	SS-16	100				30	32	10																		
17						End of Borehole (15.90 m)																				

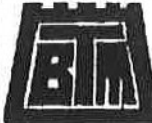





 BASIC TECHNOLOGY AND MANAGEMENT CORPORATION 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila	MACHINE: <u>ACKER ACE</u>	LEGEND:  SS - SPLIT SPOON SAMPLE  WS - WASH SAMPLE  UDS - UNDISTURBED SAMPLE  CR - CORE SAMPLE  W - HYDROMETER ANALYSIS
	DRILLER: <u>R. CASCAYAN</u>	
	SUPERVISOR: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

図5-3-3 (138/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 26

PROJECT: Pasig-Marikina River Channel Imp. Proj. GROUND ELEV. (MLLW = Zero Datum) + 14.435 DEPTH OF WATER: 3.00 m.
 LOCATION: R. Bank, Libis, Quezon City STATION NO.: 9 + 125 DATE MEASURED: 02 Jan. 2001
 BH NO: BMRL-26 DATE DRILLED: 29 Dec. - 02 Jan. 2001 WEATHER: FAIR TIME MEASURED: 2:00 PM
 COORDINATES: 1616,758.950 N, 508,345.500 E

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 SIEVE				
							15 cm	15 cm	15 cm	(N-VALUE)						LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200	
1	SS-1	67				Sandy CLAY; brown; 22% fine sand; with little amount of coarse to medium sand; 72% high plasticity clay; STIFF.	3	5	5					35	56	36	2.61			99	97	94	72*		
2	SS-2	78		CH		Sandy CLAY; brown to grayish brown; 10% fine sand; 89% high plasticity clay; FIRM TO VERY SOFT.	2	3	4																
3	SS-3	89					1	0	1					42	81	39	2.80			100	99	99	89*		
4	SS-4	100					1	1	1																
5	UDS-1	100					PRESSED							36	1.58	65	37	2.60					100	98	99*
6	SS-5	44		GM		Sandy GRAVEL; dark gray; 12% non-plastic silt; 13% coarse sand; 14% medium sand; 12% fine sand; 49% sub-angular gravel; MEDIUM DENSE.	8	11	12																
7	SS-6	67				Silty CLAY; grayish brown; 97% high plasticity silty clay; VERY STIFF.	10	11	8					9			2.65					51	38	24	12
8	SS-7	89		CH			7	8	8																
9	SS-8	89					8	10	9																
10	SS-9	89					7	8	10					36	72	52	2.60					100	98	98	97*
11	SS-10	89				Silty SAND; brown; 27% non-plastic silt; 10-12% medium sand; 61-63% fine sand; MEDIUM DENSE TO VERY DENSE.	11	14	15																
12	SS-11	100					14	15	17																
13	SS-12	62		SM			10	10	15					29			2.63					100	90	27	
14	SS-13	44					9	10	18																
15	SS-14	49					12	18	22																
16	SS-15	78					18	25	32					24			2.63					100	88	27	
17						End of Borehole (16.00 m)																			







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

図5-3-3 (139/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 27**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 15.305 **DEPTH OF WATER:** 1.40 m.
LOCATION: R. Bank, C-5 Pasig - Marikina **STATION NO.:** 9 + 300 **DATE MEASURED:** 28 Dec. 2000
BH NO: BMRL-27 **DATE DRILLED:** 27 - 29 December 2000 **WEATHER:** FAIR **TIME MEASURED:** 5:30 PM
COORDINATES: 1616,894.100 N, 508,469.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)	NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/100	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	58			CH		Sandy CLAY; brown; 26% fine sand; 72% high plasticity clay; SOFT.	2	1	2					31	61	29	2.81			100	98	72		
2	SS-2	67			CH		Silty CLAY; brown; 95% high plasticity silty clay; with little amount of fine sand; SOFT.	2	1	1															
3	SS-3	67			CH			2	1	1					38	65	38	2.80					100	95	
4	SS-4	100			SM		Silty SAND; grayish brown; fine sand with non-plastic silt; VERY SOFT TO SOFT.	1	1	0															
5	SS-5	67			GM			1	1	1															
6	SS-6	58			GM		Silty GRAVEL; light gray; 11% non-plastic silt; traces of coarse to fine sand; 69% sub-angular gravel; DENSE TO VERY DENSE.	7	25	21					9			2.88			31	23	16	11	
7	SS-7	74			GM			40	12																
8	SS-8	100			CH			3	3	5															
9	SS-9	100			CH		Silty CLAY; light brown; 90% high plasticity silty clay; with little amount of medium to fine sand; FIRM TO VERY STIFF.	4	5	8					34	88	47	2.80			99	97	94	90	
10	SS-10	100			CH			7	8	10															
11	SS-11	100			CH			10	12	14															
12	SS-12	100			CH			13	15	18					24	53	33	2.81			85	78	72	68	
13	SS-13	85			CH		Gravelly CLAY; brown; 14- 15% sub-angular gravel; traces of coarse to fine sand; 68-76% high plasticity clay; VERY STIFF TO HARD.	7	27	23															
14	SS-14	78			CH			10	17	20															
15	SS-15	78			CH			8	18	17					28	53	31	2.81			86	84	81	78	
16	SS-16	78			CH			7	13	20															
17	SS-17	78			GM			9	12	18															
18	SS-18	67			GM		Silty GRAVEL; brown; equal amount of non-plastic silt and sub-angular gravel; with 26% fine sand; DENSE.	13	17	22					19			2.85			68	62	58	32	
19	SS-19	78			GM			9	18	21															
20	SS-20	44			GM		End of Borehole (20.00 m)	22	24	17															



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
 W/ - HYDROMETER ANALYSIS

図5-3-3 (140/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 30**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 14.888 **DEPTH OF WATER:** 4.50 m.
LOCATION: R. Bank, Pasig - Marikina **STATION NO.:** 10 + 250 **DATE MEASURED:** 14 Dec. 2000
BH NO: BMRL-30 **DATE DRILLED:** 12 - 13 December 2000 **WEATHER:** FAIR **TIME MEASURED:** 7:00 AM
COORDINATES: 1617,762.500 N, 508,689.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT) (N-VALUE)				NATURAL MOIST. CONTENT, %	TOTAL LIMIT WEIGHT, g/pc	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS % PASSING SIEVE				
							15 cm	15 cm	15 cm	10	20	30	40			50	LIQUID LIMIT, %		PLASTICITY INDEX, %	STRENGTH kg/cm ²	STRAIN Σ, %	4	10	40	200
1	SS-1	44		ML		Sandy SILT; dark brown; 10% coarse sand; 11% medium sand; 15% fine sand; 15% sub-angular gravel; 49% non-plastic silt; FIRM.	4	4	4									2.63			85	75	84	49	
2	SS-2	56					2	2	2																
3	SS-3	87		SM		Silty SAND; brown; 32% sub-angular gravel; 33% non-plastic silt; 9% coarse sand; 15% medium sand; 11% fine sand; MEDIUM DENSE.	7	8	8									2.64			89	59	44	33	
4	SS-4	78					5	5	16																
5	SS-5	67		SW		Gravelly SAND; grayish brown; 13% non-plastic silt; 41% angular gravel; 16% coarse sand; 20% medium sand; 10% fine sand; MEDIUM DENSE TO DENSE.	15	18	20																
6	SS-6	67					17	15	12									2.64			59	43	23	13	
7	SS-7	78					9	9	16																
8	SS-8	100		CL		Sandy CLAY; grayish brown; 10% sub-angular gravel; 10% coarse sand; 26% fine sand; with little amount of medium sand; 48% medium plasticity clay; STIFF TO VERY STIFF.	8	9	12																
9	SS-9	100					4	5	5									2.64			80	80	74	48	
10	SS-10	100					9	12	16																
11	SS-11	44					10	18	32																
12	SS-12	100		SM		Silty SAND; grayish brown to brown; 18-27% non-plastic silt; 48-54% medium sand; 22-27 fine sand; MEDIUM DENSE TO VERY DENSE.	8	10	12									2.63			88	97	48	27	
13	SS-13	100					4	10	12																
14	SS-14	44					22	24	27																
15	SS-15	44					20	24	29									2.63			100	99	45	18	
16						End of Borehole (15.00 m)																			







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

図5-3-3 (143/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 31**

PROJECT: Pasig-Marikina River Channel Imp. Proj.	GROUND ELEV. (MLLW = Zero Datum) + 17.751	DEPTH OF WATER: 4.20 m.
LOCATION: R. Bank, Marikina	STATION NO.: 10 + 460	DATE MEASURED: 14 Dec. 2000
BH NO: BMRL-31 DATE DRILLED: 12 - 13 December 2000	WEATHER: FAIR	TIME MEASURED: 7:00 AM
COORDINATES: 1617,965.100 N, 508,770.500 E		

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	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 %	4	10	40	200
1	SS-1	22		SW		Gravelly SAND; brown; 24% sub-angular gravel; 11% coarse sand; 18% medium sand; 17% fine sand; 30% non-plastic silt; LOOSE	4	2	2	10	20	30	40	50	1				2.64		78	65	47	30	
2	SS-2	22					3	3	3																
3	SS-3	33		GM		Sandy GRAVEL; dark gray; 16% non-plastic silt; 11% medium sand; 11% fine sand with traces of coarse sand; 53% sub-angular gravel; VERY LOOSE TO MEDIUM DENSE.	3	1	2	39									2.65		47	38	27	16	
4	SS-4	33					5	1	1																
5	SS-5	27					8	10	11																
5	SS-6	33		ML		Sandy SILT; gray; 12% fine sand with little amount of medium sand; 79% non-plastic silt; HARD	40	10		51									2.62		98	98	91	79	
6																									
7				ST	18	Tuffaceous SANDSTONE; creamy brown; highly weathered; HARD.																			
8	CR-1	17																							
9	CR-2	38			25																				
10																									
11	CR-3	47			25																				
11				SS		Tuffaceous SILTSTONE; creamy brown; highly weathered; HARD.																			
12	CR-4	44			18																10.192	0.693			
13																									
14	CR-5	30			16																				
15	CR-6	29			23																				
15						End of Borehole (15.00 m)																			
16																									
17																									
18																									
19																									
20																									



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

MACHINE: ACKER ACE
DRILLER: R. ANDO
SUPERVISOR: M. ESTAURA

LEGEND:

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

図5-3-3 (144/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 33**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 16.029 **DEPTH OF WATER:** 1.00 m.
LOCATION: R. Bank, Marikina **STATION NO.:** 11 + 150 **DATE MEASURED:** 04 Jan. 2001
BH NO: BMRL-33 **DATE DRILLED:** 04 - 05 January 2001 **WEATHER:** FAIR **TIME MEASURED:** 5:30 PM
COORDINATES: 1617,731.100 N, 509,322.650 E

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 SIEVE			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200
1	SS-1	100		CH		Sandy CLAY; brown to grayish brown; 12% medium sand; 35% fine sand; traces of gravel and coarse sand; 53% high plasticity clay; SOFT.	2	2	2					26	80	34	2.62			94	88	78	53		
2	SS-2	67					Sandy CLAY; brown; 22% fine sand; traces of coarse to medium sand; 13% sub-rounded gravel; 49% high plasticity clay; STIFF.	1	1	2															
3	SS-3	67													24	57	32	2.62			87	80	71	49	
4	SS-4	88																							
5	SS-5	100		GM		Sandy GRAVEL; brown; 17% coarse sand; 16% medium sand; traces of fine sand; 54% sub-rounded gravel; 5% non-plastic silt; LOOSE TO MEDIUM DENSE.	4	4	5																
6	SS-6	100													7			2.65			48	29	13	5	
7	SS-7	100																							
8	SS-8	100		CH		Silty CLAY; brown; 96% high plasticity silty clay; with little amount of fine sand; VERY STIFF.	7	9	10																
9	SS-9	100													33	71	40	2.60			99	99	99	98	
10	SS-10	100																							
11	SS-11	100					Sandy CLAY; brown to dark brown; 33% fine sand; 57% high plasticity clay; VERY STIFF TO HARD.	23	25	25															
12	SS-12	100												30	81	37	2.62			100	91	80	57		
13	SS-13	100																							
14	SS-14	88																							
15	SS-15	67		ML		Sandy SILT; brown to dark brown; 28% sub-angular gravel; 20% fine sand; traces of coarse to medium sand; 36% non-plastic silt; HARD.	15	16	23					14			2.65			72	63	56	36		
16	SS-16	100																							
17						End of Borehole (15.95 m)																			
18																									
19																									
20																									







 BASIC TECHNOLOGY AND MANAGEMENT CORPORATION 2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila	MACHINE: ACKER ACE	LEGEND:  SS - SPLIT SPOON SAMPLE  WS - WASH SAMPLE  UDS - UNDISTURBED SAMPLE  CR - CORE SAMPLE  WV - HYDROMETER ANALYSIS
	DRILLER: R. CASCAYAN JIMENEZ	
	SUPERVISOR: M. ESTAURA M. VILLAFUERTE	

図5-3-3 (146/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MRL - 34

PROJECT: Pasig-Marikina River Channel Imp. Proj. LOCATION: R. Bank, Calumpang Marikina BH NO: BMRL-34 DATE DRILLED: 02 - 03 January 2001	GROUND ELEV. (MLLW = Zero Datum) <u>+ 13.526</u> STATION NO.: <u>11 + 450</u> WEATHER: <u>FAIR</u>	DEPTH OF WATER: <u>1.50</u> m. DATE MEASURED: <u>02 Jan. 2001</u> TIME MEASURED: <u>1:30 PM</u>
COORDINATES: <u>1617,520.000</u> N, <u>509,518.255</u> E		

DEPTH, m	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		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					
							10	20	30	40	50																		
1	SS-1	87	[Symbol]	SM		Silty SAND; brown; 28% non-plastic silt; 71% fine sand; VERY LOOSE.	2	2	1						18														
2	SS-2	100	[Symbol]				1	2	3																				
3	SS-3	100	[Symbol]	CH		Sandy CLAY; brown; 43% fine sand; 57% high plasticity clay; FIRM.	2	3	2						37	55	31	2.82											
4	SS-4	100	[Symbol]				4	4	4																				
5	SS-5	100	[Symbol]				2	1	1																				
6	SS-6	88	[Symbol]	SM		Silty SAND; brown; 11-26% sub-angular gravel; 24-30% non-plastic silt; 9-14% coarse sand; 17-31% medium sand; 13-25% fine sand; VERY LOOSE TO MEDIUM DENSE.	4	4	4						38			2.84											
7	SS-7	88	[Symbol]				12	10	8																				
8	SS-8	87	[Symbol]				8	8	10																				
9	SS-9	88	[Symbol]				14	13	10						15			2.85											
10	SS-10	88	[Symbol]				9	9	10																				
11	SS-11	100	[Symbol]	CH		Sandy CLAY; brown; 11% fine sand; traces medium sand; little amount of gravel and coarse sand; 74% high plasticity clay; VERY STIFF TO HARD.	18	18	26																				
12	SS-12	100	[Symbol]				15	18	21						21	60	37	2.81											
13	SS-13	100	[Symbol]				20	22	19																				
14	SS-14	100	[Symbol]				10	12	12																				
15	SS-15	88	[Symbol]	ML		Sandy SILT; brown; 10% sub-angular gravel; 31% fine sand; with little amount of coarse to medium sand; 52% low plasticity silt; VERY STIFF TO HARD.	8	8	12						28			2.62											
16	SS-16	85	[Symbol]				34	32	18	7																			
17	End of Borehole (15.92 m)																												

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

MACHINE: ACKER ACE
DRILLER: R. CASCAYAN
 I. LUENGAS
SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:

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

図5-3-3 (147/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 35**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 15.493
LOCATION: R. Bank, Calumpang Marikina **STATION NO.:** 11 + 750
BH NO: BMRL-35 **DATE DRILLED:** 26 Dec. - 04 Jan. 2001 **WEATHER:** FAIR **DEPTH OF WATER:** 2.00 m.
COORDINATES: 1617,421.500 N, 509,761.651 E **DATE MEASURED:** 28 Dec. 2000
TIME MEASURED: 7:00 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	DESCRIPTION	BLOWS (SPT)			STANDARD PENETRATION TEST (SPT)					NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, ρ_{wet}	ATTERBERG LIMITS		SPECIFIC GRAVITY	UNCONFINED COMP. TEST		SIEVE ANALYSIS			
							15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm^2	STRAIN %	4	10	40	200
1	SS-1	67		SM		Silty SAND; brown; 41-47% non-plastic silt; 52-59% fine sand; LOOSE.	2	2	2	10	20	30	40	50	27			2.63			100	99	47		
2	SS-2	100		SM			2	2	4																
3	SS-3	89		SM			5	5	5						27			2.63			100	41			
4	SS-4	89		SM		Silty SAND; brown; 30% non-plastic silt; 13% coarse sand; 14% medium sand; 19% fine sand with 24% sub-rounded gravel; MEDIUM DENSE.	7	7	8																
5	SS-5	100		SM			5	12	13																
6	SS-6	100		SM			7	10	13						33			2.64			75	63	48	30	
7	SS-7	100		CH			22	18	19																
8	SS-8	100		CH		Silty CLAY; creamy brown to brown; 96% high plasticity silty clay; with little amount of fine sand; VERY STIFF TO HARD.	10	12	12																
9	SS-9	100		CH			12	14	15						33	68	44	2.60			100	99	98	86*	
10	SS-10	100		CH			9	11	21																
11	SS-11	100		CH			14	18	19																
12	SS-12	100		CH		Sandy CLAY; brown; 11% fine sand; 86% high plasticity clay; VERY STIFF.	12	10	12						22	57	35	2.60			100	98	97	85*	
13	SS-13	89		CH			12	10	12																
14	SS-14	89		SM		Silty SAND; brown; 37% non-plastic silt; 18% medium sand; 44% fine sand; VERY DENSE.	24	29	21/7																
15	SS-15	100		SM			28	30	20/10						21			2.63			100	99	81	37	
16						End of Borehole (14.95 m)																			



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

MACHINE: ACKER ACE
DRILLER: R. CASCAYAN
 I. LUENGAS
SUPERVISOR: M. ESTAURA
 M. VILLAFUERTE

LEGEND:

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

図5-3-3 (148/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 36**

PROJECT: Pasig-Marikina River Channel Imp. Proj. **GROUND ELEV.** (MLLW = Zero Datum) + 15.391 **DEPTH OF WATER:** 0.50 m.
LOCATION: R. Bank, Calumpang Marikina **STATION NO.:** 12 + 112.60 **DATE MEASURED:** 28 Dec. 2000
BH NO: BMRL-36 **DATE DRILLED:** 26 - 28 December 2000 **WEATHER:** FAIR **TIME MEASURED:** 2:30 PM
COORDINATES: 1617,671.750 N, 509,918.750 E

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																			
								15 cm	15 cm	15 cm	(N-VALUE)							LIQUID LIMIT, %	PLASTICITY INDEX, %		STRENGTH kg/cm ²	STRAIN %	4	10	40	200																
1	SS-1	100			CH		Sandy Silty CLAY; brown; 49% high plasticity clay; 49% fine sand; VERY LOOSE.	1	0	1				42																												
2	UDS-1	100			SM		Sandy CLAY; brown; 27% fine sand; 72% high plasticity clay; PREPRESSED							43	1.60	55	35	2.81																								
3	SS-2	100					Silty SAND; grayish brown; fine sand; non-plastic silt; LOOSE.	3	4	3																																
4	SS-3	100					Silty CLAY; brown; 90% high plasticity silty clay; traces of fine sand; VERY STIFF.	4	6	10				25		62	40	2.60																								
5	SS-4	100						6	8	9																																
6	SS-5	100					Sandy CLAY; brown; 11% fine sand; traces of fine sand and gravel; 77% high plasticity clay; VERY STIFF.	7	8	9																																
7	SS-6	100						10	10	11				20		54	34	2.61																								
8	SS-7	100					Silty CLAY; brown; 91-94% high plasticity silty clay; traces of fine sand; VERY STIFF TO HARD.	10	11	11																																
9	SS-8	100						11	11	12																																
10	SS-9	100			CH		Silty CLAY; brown; 91-94% high plasticity silty clay; traces of fine sand; VERY STIFF TO HARD.	12	12	12				26		54	34	2.60																								
11	SS-10	100						13	14	14																																
12	SS-11	100					Silty CLAY; brown; 91-94% high plasticity silty clay; traces of fine sand; VERY STIFF TO HARD.	15	15	16																																
13	SS-12	100						20	18	19				34		55	28	2.60																								
14	SS-13	100					Silty CLAY; brown; 91-94% high plasticity silty clay; traces of fine sand; VERY STIFF TO HARD.	19	20	21																																
15	SS-14	100						14	17	29																																
16	SS-15	67					Sandy CLAY; brown; 11% fine sand; 86% high plasticity clay; HARD.	19	23	24				30		56	32	2.60																								
17	SS-16	58						20	22	28																																
18	SS-17	44					Sandy CLAY; brown; 11% fine sand; 86% high plasticity clay; HARD.	21	23	29																																
19								End of Borehole (18.00 m)																																		
20																																										







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

図5-3-3 (149/221) 柱状図 (フェーズI実施分)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS **MRL - 37**

PROJECT: Pasig-Marikina River Channel Imp. Proj.

GROUND ELEV. (MLLW = Zero Datum) + 14.683

DEPTH OF WATER: FREE FLOWING m.

LOCATION: R. Bank, Butiki Park, Marikina

STATION NO.: 12 + 350

DATE MEASURED: 04 Jan. 2001

BH NO: BMRL-37 DATE DRILLED: 29 Dec. - 04 Jan. 2001

WEATHER: FAIR

TIME MEASURED: 5:00 PM

COORDINATES: 1617,891.500 N, 509,932.500 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	LOG SYMBOL	CLASSIFICATION	ROD	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 %	4	10	40	200
1	SS-1	100		ML		Sandy SILT; grayish brown; 44% fine sand; 54% non-plastic silt; FIRM.	1	3	3	10	20	30	40	50	42			2.83		99	98	98	54		
2	SS-2	100						2	4	7															
3	SS-3	100						10	7	7					28	60	31	2.61		96	97	95	91		
4	SS-4	100						3	4	5															
5	SS-5	100						6	13	17															
6	SS-6	100		CH		Silty CLAY; grayish brown to brown; 91-97% high plasticity silty clay; little amount of fine sand; STIFF TO VERY STIFF.	8	9	11						27	59	34	2.60			100	99	97		
7	SS-7	100						9	8	10															
8	SS-8	100						11	11	10															
9	SS-9	100						10	9	10					23	62	42	2.60			100	99	97		
10	SS-10	100						8	11	12															
11	SS-11	100						12	12	11															
12	SS-12	100						13	12	13					39	61	40	2.60			100	99	95		
13	SS-13	89						15	15	25															
14	SS-14	89		CH		Sandy CLAY; brown; 14% fine sand with little amount of coarse to medium sand; 82% high plasticity clay; HARD.	18	22	25																
15	SS-15	67						19	21	22					31	54	30	2.61			100	98	98	82	
16	SS-16	67						19	23	24															
17	SS-17	100								23															
17						End of Borehole (16.95 m)		21	27	10															



BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
 DRILLER: J. MOGOL
 SUPERVISOR: M. ESTAURA
M. VILLAFUERTE

LEGEND:



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

図5-3-3 (150/221) 柱状図 (フェーズI実施分)