SHEET 2 OF 2

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 3b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Kapasigan, Pasig City
BH NO: BMLW-3 DATE DRILLED: 06 - 07 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 9.946
STATION NO.: 00 + 950
WEATHER: FAIR
COORDINATES: 1610663.750 N, 507768.250 E

DEPTH OF WATER: 1.50 m
DATE MEASURED: 06 Mar. 2001
TIME MEASURED: 7:00 AM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	20
21	SS-20	100		CH		**Sandy CLAY**; gray; 6% fine sand; 94% high plasticity clay; VERY STIFF.	6	7	8												
22	SS-21	100					7	10	11		38		65	45	260					100	94
23	SS-22	100		SM		**Silty SAND**; gray; 34% non-plastic silt with little amount of coarse to medium sand; 63% fine sand; MEDIUM DENSE.	5	8	10												
24	SS-23	100					9	11	11		23				2.63			100	99	97	34
25	SS-24	67		CL		**Sandy CLAY**; gray; little amount of medium sand; 46% fine sand; 53% medium plasticity clay; VERY STIFF.	10	12	15		26		45	24	2.62				100	99	53
						END OF BOREHOLE (25.00 m)															
26																					
27																					
28																					
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34																					
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BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
2nd Floor Prudential Bank Building, 1377 A. Mabini St., Ermita, Manila

MACHINE: ACKER ACE
DRILLER: A. TENERIFE
SUPERVISOR: M. VILLAFUERTE

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

図5-3-3（86/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLW - 4

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Caniogan, Pasig City
BH NO: BMLW-4 DATE DRILLED: 02 - 03 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.385
STATION NO.: 1 + 450
WEATHER: FAIR
COORDINATES: 1611158.500 N, 507850.100 E

DEPTH OF WATER: 1.50 m
DATE MEASURED: 02 Mar. 2001
TIME MEASURED: 2:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	89		CH		**Sandy CLAY**; dark gray; 11% fine sand; 88% high plasticity clay; VERY SOFT.	1	0	0		68		73	54	2.60				100	99	88
2	SS-2	89					1	0	0												
3	SS-3	56				**Sandy CLAY**; brownish gray; 16% gravel; 18% fine to coarse sand; 66% medium to high plasticity clay; SOFT.	2	3	0		52		58	33	2.62			84	79	76	66
4	SS-4	89					1	1	1												
5	SS-5	89					1	2	1												
6	UDS-1	100		SC		**Gravelly Clayey SAND**; dark gray; 14% gravel; 27% medium to high plasticity clay; 73% fine sand; VERY LOOSE.	PRESSED				49	1.65	59	40	2.62	Cc 0.320	Pc 1.040	86	84	84	73
7	UDS-2	100		CH		**Sandy CLAY**; brownish gray; 0-2% gravel; 7-9% fine to coarse sand; 89-93% medium to high plasticity clay; SOFT.	PRESSED				54	1.62	59	38	2.60	Cc 0.425 0.0940	Pc 1.080 8.000	100	99	99	93
8	SS-6	89					2	1	2		61		65	36	2.62			100	97	93	91
9	UDS-3	100					PRESSED				66	1.46	56	27	2.61	Cc 0.630 0.1420	Pc 0.710 7.429	98	94	91	89
10	SS-7	89				**Silty SANDY; GRAVEL;** dark greenish gray; 16% non-plastic silt w/ traces of coarse and medium sand; 12% fine sand; 53% angular to sub-angular gravel; VERY DENSE.	2	2	2												
	SS-8	100		GM			50/8				39				2.64			47	38	28	16
11	SS-9	NR					50/8														
12	CR-1	89			0																
13	CR-2	85		ST	50	**Tuffaceuos SANDSTONE**; light brown to light gray; contains some pumice clast; moderately weathered; broken; SOFT.	CORING				10	1.62				123.973	3.829				
14	CR-3	48			25		CORING														
15	CR-4	77			20		CORING														
16	CR-5	58			29		CORING														
17	CR-6	52		LT	35	**Lapilli TUFF**; gray to light brown; slightly to moderately weathered; slightly broken; Moderately SOFT.	CORING				12	1.50				81.701	2.747				
18	CR-7	56			0		CORING														
19	CR-8	44			16		CORING														
20	CR-9	85		ST	70	**SANDSTONE**; brownish gray; coarse grained; slightly broken; Moderately SOFT. (END OF BOREHOLE (20.00)	CORING														

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

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

図5-3-3（87/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 5

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Caniogan, Pasig City
BH NO: BMLW-5 DATE DRILLED: 02 - 05 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.990
STATION NO.: 1 + 825
WEATHER: FAIR
COORDINATES: 1611518.655 N, 507942.100 E

DEPTH OF WATER: 1.68 m
DATE MEASURED: 03 Mar. 2001
TIME MEASURED: 4:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	20
1	SS-1	78		SC		**Silty SAND**; gray; 34% non - plastic silt with little amount of medium sand; 65% fine sand; VERY LOOSE.	1 / 1 / 1		50				2.63				100	99	3
2	SS-2	89					1 / 2 / 2												
3	SS-3	100		CH		**Sandy CLAY**; gray; little amount of coarse and medium sand; 3-10% fine sand; 89-94% high plasticity clay; SOFT TO FIRM.	2 / 2 / 2		67		70	46	2.60			100	99	97	94
4	SS-4	100					2 / 3 / 3												
5	UDS-1	100					PRESSED		57	1.52	61	40	2.60	Cc 0.540 / 0.638	Pc 1.200 / 5.143		100	99	8
6	SS-5	78				**Sandy CLAY**; brown; little amount of coarse sand; 9% medium sand; 37% fine sand; 52% high plasticity clay. STIFF TO HARD.	5 / 2 / 10												
7	SS-6	91					19 / 41 / 9/3		53		72	47	2.62			100	98	89	5
8	CR-1	52		Tf	0	**Fine TUFF**; light brown; highly weathered; broken interbedded with coarse-grained sandstone and siltstone; SOFT To Moderately HARD.	CORING												
9	CR-2	38			23		CORING		16	1.40				37.175	2.205				
10	CR-3	49			36		CORING												
11	CR-4	49		ST	13	**Tuffaceous SANDSTONE**; brownish gray to gray; moderately weathered; interbedded with siltstone and medium-grained sandstone; Moderately HARD.	CORING												
12	CR-5	77			38		CORING		21	1.48				9.850	13.50				
13	CR-6	51		Tf	23	**Fine TUFF**; light brown; moderately weathered; Moderately HARD.	CORING		14	1.65				62.881	2.174				
14	CR-7	32		ST	0	**Tuffaceous SANDSTONE**; light brown; highly weathered; contains great amount of volcanic clast; Moderately HARD.	CORING												
15	CR-8	34			10	**Tuffaceous SANDSTONE**; gray; moderately weathered; contains great amount of gravel-sized volcanic clast; broken; Moderately HARD.	CORING												
16	CR-9	33			19		CORING												
17						END OF BOREHOLE (16.00 m)													
18																			
19																			
20																			

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

MACHINE: ACKER ACE
DRILLER: A. TENERIFE
SUPERVISOR: M. VILLAFUERTE

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

図5-3-3（88/221）柱状図（フェーズI実施分）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

MLW - 6a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Maybunga, Pasig City
BH NO: BMLW-6 DATE DRILLED: 16 - 17 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.256
STATION NO.: 2 + 450
WEATHER: FAIR
COORDINATES: 1612022.100 N, 508267.750 E

DEPTH OF WATER: 3.00 m
DATE MEASURED: 16 Mar. 2001
TIME MEASURED: 10:00 AM

	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	20
1	SS-1	89		CH		**Silty CLAY**; dark gray; contains 8% fine to medium sand; 92% high plasticity clay; STIFF TO VERY SOFT.	3	4	5		34		69	46	2.60				100	98	9
2	SS-2	89					1	1	1												
3	SS-3	89				**Sandy CLAY**; dark gray; contains little amount of medium sand; 36% fine sand; 59% high plasticity clay; SOFT.	2	2	2		43		53	32	2.61			99	98	95	5
4	SS-4	89		SM		**Silty SAND**; dark gray; 20% non-plastic silt; 13% medium sand; 67% fine sand; MEDIUM DENSE TO LOOSE.	3	6	6		30				2.63				100	87	2
5	SS-5	89					4	3	2												
6	SS-6	89		CH		**Silty CLAY**; dark gray to brown; 89-98% high plasticity clay with 1-11% fine to medium sand; presence of shell fragments; SOFT TO VERY STIFF.	1	1	1		43		72	49	2.60			99	98	97	9
7	SS-7	89					1	1	1												
8	SS-8	89					1	1	1												
9	SS-9	89					1	1	2		49		73	44	2.60			100	99	99	9
10	SS-10	89					3	3	4												
11	SS-11	89					2	3	3												
12	SS-12	89					3	4	7		38		73	52	2.60			100	99	98	8
13	SS-13	89					2	3	3												
14	SS-14	89					4	4	5												
15	SS-15	89					6	10	12		29		61	40	2.60			99	99	99	9
16	SS-16	89					10	12	13												
17	SS-17	89					5	7	7												
18	SS-18	89					8	9	9		34		72	46	2.60			100	99	96	9
19	SS-19	89					5	5	7												
20	SS-20	89					8	11	17												

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

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

図5-3-3（89/221）柱状図（フェーズI実施分）

SHEET 2 OF 2

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLW - 6b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Maybunga, Pasig City
BH NO: BMLW-6 DATE DRILLED: 16 - 17 March 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.256
STATION NO.: 2 + 450
WEATHER: FAIR

DEPTH OF WATER: 3.00 m
DATE MEASURED: 16 Mar. 2001
TIME MEASURED: 10:00 AM

COORDINATES: 1612022.100 N, 508267.750 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
21	SS-21	89		CH		Silty CLAY; dark gray to brown; 99% high plasticity clay; HARD.	14	22	28		24		83	60	2.60					100	9
22	SS-22	68					16	24	26/14												
23	SS-23	70					17	23	27/13		22		78	50	2.60					100	9
						END OF BOREHOLE (22.98 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. VILLAFUERTE

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

図5-3-3（90/221）柱状図（フェーズI実施分）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 7a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Maybunga, Pasig City
H NO: BMLW-7 DATE DRILLED: 14 - 15 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.548
STATION NO.: 2 + 950
WEATHER: FAIR

DEPTH OF WATER: 2.70 m
DATE MEASURED: 14 Feb. 2001
TIME MEASURED: 7:00 AM

COORDINATES: 1612393.100 N, 508621.100 E

	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89		CH		**Gravelly Sandy CLAY;** dark gray; 10% fine sand; 7% gravel; 81% high plasticity clay; VERY SOFT.	1	0	0		63		66	42	2.62			93	92	91	81
2	SS-2	89					1	0	0												
3	SS-3	89		SM		**Gravelly Silty SAND;** greenish to dark gray; 13% sub-angular gravel; 23% non-plastic silt; 14% coarse sand, 28% medium sand; 22% fine sand; MEDIUM DENSE.	6	9	12		54				2.64			87	73	45	23
4	SS-4	89					6	9	10												
5	SS-5	89					5	6	3												
6	SS-6	89		CH		Sandy CLAY; dark gray; 17% medium sand; 18% fine sand w/ traces of coarse sand and decayed wood; 58% high plasticity clay; SOFT.	2	1	2		55		57	35	2.62			100	93	76	58
7	UDS-1	89				**Silty CLAY;** dark gray; 87-93% high plasticity clay with traces of fine sand; SOFT.	PRESSED				62	1.46	62	36	2.60	Cc 0.545 0.1026	Pc 1.550 10.857	99	98	97	93
8	UDS-2	100					PRESSED				50	1.57	56	35	2.60	Cc 0.910 1.099	Pc 1.620 2.286	96	95	94	87
9	UDS-3	100				**Sandy CLAY;** dark gray; 10% fine sand; 81% high plasticity silty clay. VERY SOFT.	PRESSED				65	1.68	66	44	2.61	Cc 0.515 1.085	Pc 1.680 5.714	98	94	91	81
10	SS-7	89					4	3	4												
11	SS-8	89				**Silty CLAY;** dark gray; 98% high plasticity silty clay; FIRM.	5	3	8												
12	SS-9	89					2	2	3		44		88	67	2.60				100	99	98
13	SS-10	89					3	3	2												
14	SS-11	89					3	3	6		34		57	35	2.62				100	99	49
15	SS-12	89		SC		**Clayey Sand;** dark gray; 49% high plasticity clay; 50% fine sand; MEDIUM DENSE.	8	8	15												
16	SS-13	89					7	9	12												
17	SS-14	89					7	7	10												
18	SS-15	89		SM		**Clayey Silty SAND;** dark gray; 46% low plasticity clayey silt; 24% medium sand, 19% fine sand with little amount of coarse sand and gravel; MEDIUM DENSE To DENSE.	8	9	13		35		40	19	2.63			96	89	65	46
19	SS-16	89					22	17	21												
20	SS-17	67					10	6	8												

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

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

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

図5-3-3（91/221）柱状図（フェーズI実施分）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

MLW - 7b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Maybunga, Pasig City
H NO: BMLW-7 DATE DRILLED: 14 - 15 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.548
STATION NO.: 2 + 950
WEATHER: FAIR
COORDINATES: 1612393.100 N, 508621.100 E

DEPTH OF WATER: 2.70 m.
DATE MEASURED: 14 Feb. 2001
TIME MEASURED: 7:00 AM

	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-18	67		SM		**Silty Gravelly SAND**; dark brown; 14% non-plastic silt; 31% rounded to sub-rounded gravel; 24% medium sand with 31% coarse and fine sand; DENSE.	15	14	24		15				2.64			69	53	29	14
2	SS-19	89					7	10	14												
3	SS-20	75				**Silty Gravelly SAND**; light brown to reddish brown; 12% non-plastic silt; 26% gravel; 62% coarse to fine sand; VERY DENSE.	11	27	23/12												
4	SS-21	56					27	25	25		16				2.64			74	54	27	12
5	SS-22	56					22	26	24												
6						END OF BOREHOLE (25.00 m)																
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BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
2nd Floor Prudential Bank Building,
1377 A. Mabini St., Ermita, Manila

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

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

図5-3-3（92/221）柱状図（フェーズI実施分）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 8a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Rosario, Pasig City
BH NO: BMLW-8 DATE DRILLED: 11 - 13 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 9.425
STATION NO.: 3 + 450
WEATHER: FAIR

DEPTH OF WATER: 2.00 m
DATE MEASURED: 11 Feb. 2001
TIME MEASURED: 4:00 PM

COORDINATES: 1612863.650 N, 508796.100 E

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	67		CH		**Sandy CLAY;** dark gray; 28-39% fine sand; 54-71% high plasticity clay with little amount of medium sand; VERY SOFT.	1	0	0		80		58	38	2.61				100	99	7
2	SS-2	89					1	0	0		73				2.62			100	97	93	5
3	SS-3	67				**Sandy CLAY;** dark gray; 5% medium sand; 78% high plasticity clay; trace of gravel; contains little amount of coarse and fine sand. VERY STIFF TO FIRM.	6	8	9												
4	SS-4	78					2	2	4		41		57	33	2.62			94	90	85	7
5	UDS-1	89		GC		**Clayey GRAVEL;** dark gray; 33% medium plasticity clay; 66% sub-angular gravel; LOOSE.	PRESSED				20	1.84			2.66	Cc 0.250	Pc 1.150	34	34	34	3
6	UDS-2	89		CH		**Silty CLAY;** dark gray; 96% high plasticity clay with little amount of fine to medium sand; FIRM.	PRESSED				66	1.48	69	45	2.60	Cc 1.090	Pc 2.550		100	98	9
7	SS-5	89					2	3	3												
8	UDS-3	89				**Sandy CLAY;** dark gray, 15% fine sand; 85% high plasticity clay; FIRM.	PRESSED				43	1.59	56	33	2.60	Cc 0.435	Pc 1.300			100	8
9	SS-6	89					3	6	6		76		69	37	2.60			100	98	96	9
10	SS-7	89				**Silty CLAY;** dark gray to brownish gray; 91-99% high plasticity clay; contains little amount of fine to medium sand; presence of shell fragments; STIFF TO FIRM.	3	3	4												
11	SS-8	89					3	3	4												
12	SS-9	89					2	3	3		48		69	41	2.60					100	9
13	SS-10	89					3	3	4												
14	SS-11	89					4	6	9												
15	SS-12	89					9	9	12		42		65	35	2.60				100	99	9
16	SS-13	89				**Silty CLAY;** brownish gray; 90-97% high plasticity clay; contains little amount of fine to medium sand; presence of shell fragments; VERY STIFF.	6	7	9												
17	SS-14	89					9	13	15												
18	SS-15	89					7	8	11		36		77	45	2.60				100	99	9
19	SS-16	89					6	10	11												
20	SS-17	67					7	10	12												

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

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

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

図5-3-3（93/221）柱状図（フェーズI実施分）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

MLW - 8b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Rosario, Pasig City
H NO: BMLW-8 DATE DRILLED: 11 - 13 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 9.425
STATION NO.: 3 + 450
WEATHER: FAIR
COORDINATES: 1612863.650 N, 508796.100 E

DEPTH OF WATER: 2.00 m
DATE MEASURED: 11 Feb. 2001
TIME MEASURED: 4:00 PM

DEPTH	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
21	SS-18	89					14 5 8		36		70	39	2.61			94	92	90	86
22	SS-19	89					5 8 8												
23	SS-20	89		CH		**Silty CLAY**; brown to grayish brown; 86-94% high plasticity clay; contains little amount of sub-rounded gravel and fine sand; STIFF TO VERY STIFF.	5 7 7												
24	SS-21	78					5 4 7		44		69	37	2.61			97	96	96	94
25	SS-22	78					8 8 8												
26	SS-23	78					7 9 10												
27	SS-24	78		ML		**Sandy SILT**; gray; 44% fine sand; 54% slightly plastic silty fines; HARD.	10 17 26		28				2.62			100	99	98	54
28	SS-25	100		CH		**Sandy CLAY**; greenish gray; 12% fine sand; 84% medium to high plasticity clay with shell fragments; VERY STIFF.	9 9 12		28		59	34	2.61			98	97	96	84
29						END OF BOREHOLE (28.00 m)													
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: _____
DRILLER: _____
SUPERVISOR: _____

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

図5-3-3（94/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 9

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Rosario Bridge, Pasig City
BH NO: BMLW-9 DATE DRILLED: 09 - 10 February 2001

GROUND ELEV. (MLLW = Zero Datum): + 10.475
STATION NO.: 4 + 250
WEATHER: FAIR
COORDINATES: 1613659.850 N, 508831.100

DEPTH OF WATER: 1.00
DATE MEASURED: 09 Feb. 2001
TIME MEASURED: 2:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEV: 4	10	40	2
1	SS-1	67		CH		**Sandy CLAY**; gray; 10-28% fine sand; 71-88% high plasticity clay; VERY SOFT.	1	0	0	71		72	48	2.61				100	99	7
2	SS-2	67					1	0	0												
3	SS-3	67					1	0	0	73		70	49	2.60			100	99	98	8
4	SS-4	89				**Sandy CLAY**; gray to dark gray; traces of coarse sand; 7-13% medium sand; 4-32% fine sand, 52-83% high plastic clay; SOFT TO FIRM.	1	1	2	57				2.62			99	97	84	5
5	SS-5	78					6	6	7											
6	SS-6	100					1	2	2	74		73	46	2.61			99	94	87	8
7	UDS-1	100				**Silty CLAY**; dark gray; 12-16% coarse to fine sand; 2-10% sub-angular gravel and gravel-sized shell fragments; 78-82% high plasticity clay; FIRM TO STIFF.	PRESSED			50	C 52 kpa 1.56	56	30	2.61	Cc 0.470	Pc 1.040	90	84	80	7
8	UDS-2	100					PRESSED			53	C 44 kpa 1.53	58	36	2.61	Cc 0.825	Pc 2.800	98	93	88	8
9	SS-7	100					2	3	4											
10	SS-8	89					3	3	6											
11	SS-9	100				**Silty CLAY**; greenish gray to grayish to brown; 97% high plasticity clay with little amount of fine sand; STIFF.	3	5	8	46		78	56	2.60				100	99	9
12	SS-10	89					4	5	6											
13	SS-11	89					5	6	8											
	SS-12	100					50/10													
14	CR-1	91		ST	34	**SANDSTONE**; light grayish brown; moderately to highly weathered; generally broken; HARD	CORING			17	1.57				41.799	1.359				
15	CR-2	10			0		CORING													
16	SS-13	100		SM SW		**Gravelly Silty SAND**; gray; 13% angular gravel; 22% non-plastic silt; 26% medium sand; 30% fine sand w/ traces of coarse sand; VERY DENSE.	20	22	28/13	49				2.64			87	78	52	2
17	CR-3	89		ST	25	**SANDSTONE**; light grayish brown; moderately to highly weathered; generally broken; SOFT.	CORING			23	1.50				19.900	2.059				
18	CR-4	67			0		CORING													
19				SS		**SILTSTONE**; light gray; highly weathered; generally broken; HARD.														
20	CR-5	21			12	END OF BOREHOLE (20.00 m)	CORING			22	1.49				66.441	2.688				

STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50

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

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

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

図5-3-3（95/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 10

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Rosario, Pasig City
BH NO: BMLW-10 DATE DRILLED: 08 - 09 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.202
STATION NO.: 4 + 500
WEATHER: FAIR
COORDINATES: 1613908.500 N, 508788.750 E

DEPTH OF WATER: 2.60 m
DATE MEASURED: 02 Mar. 2001
TIME MEASURED: 1:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	89		ML		**Sandy SILT**; gray; 13% sub-angular gravel; traces of coarse sand; 10% medium sand; 26% fine sand; 44% non-plastic silt. VERY SOFT to SOFT.	1	0	1		38		44	17	2.63			87	80	70	4
2	SS-2	89		SM		**Gravelly Silty SAND**; gray; 29% gravel; 34% non-plastic silt; 15% coarse sand; 11% medium sand; 11% fine sand; LOOSE.	1	2	2													
3	SS-3	89					1	2	3		27		43	16	2.64			71	56	45	3
4	SS-4	89					3	2	2												
5	SS-5	89					3	2	3												
6	SS-6	89				**Sandy CLAY**; gray to brownish gray; 90-92% high plasticity clay with 8-10% sand; SOFT to STIFF.	2	3	3		52		68	40	2.60			100	99	95	9
7	SS-7	89					2	2	3												
8	SS-8	89		CH			2	3	3												
9	SS-9	89					4	3	3		61		78	49	2.60			100	99	98	9
10	SS-10	89					4	6	6												
11	SS-11	89				**Sandy CLAY**; brownish gray; 86% high plasticity clay; 12% sand with very little amount of gravel; VERY STIFF.	3	5	10												
12	SS-12	89					6	10	13		44		85	58	2.60			98	96	94	8
13	SS-13	89		SM SW		**Gravelly Silty SAND**; grayish brown; 16% angular gravel; 33% non-plastic silt; 7% coarse sand; 20% medium sand; 24% fine sand; DENSE.	9	15	21		27				2.63			84	77	57	3
14	SS-14	100		CH		**Sandy CLAY**; grayish brown; 13% medium sand; 23% fine sand with little amount of coarse sand; 62% high plasticity clay; HARD.	16	28	22/5		24		59	37	2.61			100	98	85	6
15	SS-15	78		SM		**Silty SAND**; grayish brown; 23% angular gravel; 22% non-plastic silt; 21% coarse sand; 20% medium sand, 14% fine sand; VERY DENSE.	40	50/3			30				2.64			77	56	36	2
16	CR-1	45			0		CORING														
17	CR-2	35			0		CORING				18	1.68				97.229	4.430				
18	CR-3	44		LT	0	**Lapilli TUFF**; grayish brown; moderately to highly weathered; broken; HARD.	CORING				18	1.74				77.391	32.50				
19	CR-4	52			0		CORING														
20	CR-5	78			0	END OF BOREHOLE (20.00 m)	CORING														

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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MACHINE: ACKER ACE
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SUPERVISOR: M. VILLAFUERTE

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

図5-3-3（96/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 11

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Caniogan, Pasig City
H NO: BMLW-11 DATE DRILLED: 06 - 07 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 9.321
STATION NO.: 5 + 000
WEATHER: FAIR
COORDINATES: 1614397.650 N, 508753.650 E

DEPTH OF WATER: 3.20 m
DATE MEASURED: 06 Feb. 2001
TIME MEASURED: 1:00 PM

	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm / 15 cm / 15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
1	SS-1	89		CH		**Sandy CLAY**; gray; 10% fine sand with traces of decayed wood; 88% high plasticity clay; VERY SOFT.	1 1 1		52		63	41	2.60			100	99	98	8
2	SS-2	89				**Silty CLAY**; dark gray; 99% high plasticity clay; SOFT.	1 2 2												
3	SS-3	89					2 2 2		69		61	33	2.60				100	99	9
4	SS-4	89				**Gravelly Sandy CLAY**; dark gray; 11% fine to medium sand with 6% gravel; 83% high plasticity clay; SOFT.	2 3 3		79		62	33	2.61			94	93	88	8
5	CR-1	93			28		CORING		14	1.65				38.509	1.079				
6	CR-2	55			26		CORING		15	1.74				103.378	3.981				
7	CR-3	60			12		CORING		16	1.74				129.824	3.817				
8	CR-4	70			45		CORING		14	1.83				98.945	2.648				
9	CR-5	60		LT	21	**Lapilli TUFF**; dark brown; gray; slightly to moderately weathered, broken; HARD.	CORING		17	1.72				96.832	3.215				
10	CR-6	56			34		CORING		20	1.66				128.630	3.780				
11	CR-7	30			19		CORING		14	1.71				93.769	3.282				
12	CR-8	35			14		CORING		17	2.22				129.203	3.205				
13	CR-9	17			0		CORING												
14	CR-10	20			0		CORING												
15	CR-11	20			0		CORING												
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
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SUPERVISOR: M. VILLAFUERTE

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

図5-3-3（97/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

MLW - 12

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: PBM Steel, Mangahan, Pasig City
BH NO: BMLW-12 DATE DRILLED: 02 - 05 February 2001

GROUND ELEV. (MLLW = Zero Datum) + 10.868
STATION NO.: 5 + 500
WEATHER: FAIR

DEPTH OF WATER: 1.20
DATE MEASURED: 02 Feb. 2001
TIME MEASURED: 1:00 PM

COORDINATES: 1614899.500 N, 508770.250

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEV: 4	10	40
1	SS-1	89		SM		**Silty SAND**; brownish gray; contains little amount of medium sand; 12% non-plastic silt; 86% fine sand; VERY LOOSE.	1	1	0		40				2.63				100	98
2	SS-2	89					2	2	2											
3	SS-3	78				**Silty Gravelly SAND**; brownish gray; 8% non-plastic silt; 35-42% sub - rounded to angular gravel; 2-13% coarse sand; 7-30% medium sand; 14-41% fine sand; DENSE To VERY DENSE.	1	6	29		21				2.65			58	56	49
4	SS-4	80					17	20	30/14		19				2.65			65	52	22
5	SS-5	100		GW		**Sandy Gravel**; grayish brown; contains 17% sand; 4% non-plastic silt, 79% sub-rounded to sub-angular gravel; VERY DENSE.	17	50/6			16				2.66			21	14	8
	CR-1	19			0		CORING													
6	SS-6	100			10	**Lapilli TUFF**; grayish brown; moderately to highly weathered; broken; HARD.	CORING													
	CR-2	95																		
7	CR-3	57			44		CORING				22	1.62				49.365	1.834			
8	CR-4	39		LT	0	**Lapilli TUFF**, grayish brown; moderately weathered; broken; Modertately HARD.	CORING													
9	CR-5	67			10		CORING													
10	CR-6	68			0	**Lapilli TUFF**; grayish brown; highly weathered; generally broken; HARD.	CORING													
	CR-7	36			0		CORING													
11	SS-7	67		GM		**Silty Sandy GRAVEL**; yellowish brown; 19% coarse sand; 20% medium sand with traces of non-plastic silt; 43% sub-angular gravel; VERY DENSE.	26	20	22		36				2.65			57	38	18
12	SS-8	67		SM		**Silty SAND**; light brown; 32% non-plastic silt with little amount of sub-angular gravel; 22% medium sand; 33% fine sand and traces of coarse sand; MEDIUM DENSE.	3	6	5											
13	SS-9	67					4	5	7		44				2.63			96	87	65
14	SS-10	89		GM GW		**Silty Sandy Gravel**; yellowish brown; coarse to fine sand; considerable amount of non-plastic silt; angular gravel; MEDIUM DENSE.	9	8	15											
15	SS-11	89					11	10	15											
16	SS-12	100				**Silty Sandy Gravel**; grayish brown to brown; 37% predo-minantly medium sand; 10% non-plastic silt; 53% tuff gravel; VERY DENSE. (16.60M)	31	37	13/9		25				2.66			47	34	18
	SS-13	100					50/5													
17	CR-8	100		Tf	24		CORING				26	1.66				65.649	1.932			
18	CR-9	89			23	**Fine TUFF**; gray; moderately weathered; broken; HARD.	CORING				20	1.69				11.246	0.543			
19	CR-10	89			10		CORING													
20	CR-11	89		SS	0	**SILTSTONE**; greenish gray; highly weathered; SOFT.	CORING			END OF BOREHOLE (20.00 m)										

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MACHINE: ACKER ACE
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SUPERVISOR: M. VILLAFUERTE

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

図5-3-3（98/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — MLW - 13

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Ugong Pasig, Left Side Offshore
BH NO: BMLW-13 DATE DRILLED: 01 - 02 Feb. 2001

GROUND ELEV. (MLLW = Zero Datum) + 12.410
STATION NO.: 6 + 000
WEATHER: F A I R
COORDINATES: 1614959.500 N, 509115.500 E

DEPTH OF WATER: 2.80 m
DATE MEASURED: 01 Feb. 2001
TIME MEASURED: 3:00 PM

DEPTH, m	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS: LIQUID LIMIT, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN ε, %	SIEVE ANALYSIS % PASSING SIEV: 4	10	40	2
1	SS-1	89		CH		**Sandy CLAY**; dark brownish; gray; 68% high plasticity clay; 15% fine sand and 14% medium sand; STIFF.	5	6	8	44		56	36	2.61			100	97	83	6
2	SS-2	100		CL		**Sandy CLAY**; grayish brown; 51% medium plasticity clay with 42% fine sand; VERY STIFF.	6	8	14	24		48	26	2.61				100	93	5
3	SS-3	89		SM		**Silty SAND**; brown; 37% medium sand; 18% fine sand; 14% coarse sand with 29% non-plastic silt; MEDIUM DENSE.	11	14	16	17				2.63			98	84	47	2
4	SS-4	89		CH		**Sandy Silty CLAY**; grayish brown; 91% highly plastic clay; VERY STIFF.	10	13	14	34		54	33	2.60			100	99	96	9
5	SS-5	91				**Sandy CLAY**; light brown; 73% high plasticity clay with 13% fine sand and 12% medium sand; HARD.	15	26	24/3	37		59	37	2.61			100	98	86	7
6	SS-6	100		SM		**Silty SAND** ;brown; 47% medium sand; 20% fine sand and 11% coarse sand; 20% non-plastic fines; VERY DENSE.	30	50/10		30				2.63			98	87	40	2
7	CR-1	27			0	**SANDSTONE**; light grayish brown; medium to coarse-grained; highly weathered; broken; SOFT.	CORING													
8	CR-2	28			0		CORING													
9	CR-3	45		ST	40	**SANDSTONE**; gray; coarse-grained, moderately weathered; Moderately HARD.	CORING			5	1.51				21.049	1.313				
10	CR-4	30			0		CORING													
11	CR-5	21			0	**Tuffaceous SANDSTONE**; light gray; fine to medium grained; moderately to highly weathered; generally broken; Moderately HARD TO SOFT.	CORING													
12	CR-6	29			22		CORING			29	1.54				53.649	2.077				
13	CR-7	16			0		CORING													
14	CR-8	25		SS	0	**Tuffaceous SILTSTONE**; brown; completely weathered; VERY SOFT.	CORING													
15	CR-9	15			0		CORING													
16						End of Borehole (15.00 m)														
17																				
18																				
19																				
20																				

STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50

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

図5-3-3（99/221）柱状図（フェーズI実施分）

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS MLW - 14

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Side Offshore, Manggahan, Pasig
H NO: BMLW-14 DATE DRILLED: 27 - 29 January 2001

GROUND ELEV. (MLLW = Zero Datum) + 11.414
STATION NO.: 6 + 450
WEATHER: FAIR
COORDINATES: 1614615.500 N, 509415.750 E

DEPTH OF WATER: 3.60 m
DATE MEASURED: 27 Jan. 2001
TIME MEASURED: 3:00 PM

	SAMPLE NO.	RECOVERY (%) SAMPLE	LOG SYMBOL	CLASSIFICATION	RQD	DESCRIPTION	BLOWS (SPT) 15 cm	15 cm	15 cm	STANDARD PENETRATION TEST (SPT) (N-VALUE) 10 20 30 40 50	NATURAL MOIST. CONTENT, %	TOTAL UNIT WEIGHT, g/cc	ATTERBERG LIMITS LIQUID LIMIT, %	PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST STRENGTH kg/cm²	STRAIN W, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	20
1	SS-1	89		CH		SandyCLAY; gray; 9-24% fine to medium sand; 76-90% high plasticity clay; FIRM TO STIFF.	5	3	2		44		57	36	2.61				100	87	76
2	SS-2	89					5	5	6		44		63	38	2.60			100	99	96	90
3	SS-3	89					2	3	4		39		55	36	2.61					100	77
4	SS-4	78		SM		Silty SAND; dark gray; 17% non-plastic silt; 42% medium sand; 35% fine sand with little amount of coarse sand; LOOSE TO MEDIUM DENSE.	4	3	5												
5	SS-5	89					7	8	8		21				2.63			100	94	52	17
6	SS-6	89		CL		Sandy Clay; dark gray; 17% medium sand with trace of fine sand; contains little amount of coarse sand; 70% medium plasticity clay. FIRM.	5	4	3		61		47	26	2.61			99	95	78	70
7	SS-7	89		CH		Silty CLAY; dark gray to brownish gray; 5-11% fine sand with little amount of medium sand; 88-93% high plasticity clay; FIRM TO VERY STIFF.	3	3	4		49		68	45	2.60				100	96	90
8	SS-8	89					3	4	5												
9	SS-9	89					5	7	7		43		62	38	2.60				100	99	88
10	SS-10	89					10	7	7												
11	SS-11	89					9	13	15		39		69	38	2.60			100	99	98	93
12	SS-12	89				Silty CLAY; light gray to grayish brown; 88-98% high plasticity clay with traces of medium to fine sand; VERY STIFF.	10	10	16		45		65	44	2.60				100	95	88
13	SS-13	89					9	10	9												
14	SS-14	89					8	11	12												
15	SS-15	89					8	10	12		45		89	60	2.60				100	99	98*
16	SS-16	91		GC		Sandy Clayey GRAVEL; brown; 23% fine sand with traces of medium sand; 32% sub-angular gravel; 37% high plasticity clay; VERY DENSE.	24	35	15/3		49		62	39	2.64			68	68	60	37
17	SS-17	57					20	32	18/5												
18	SS-18	100		ML		Sandy SILT; light brown to brown; 45% fine sand; 53% slightly plastic silt; HARD.	19	33	17/5		61				2.61				100	98	53*
19	SS-19	91		SM		Silty SAND; ligth brown to brown; 52-61% fine sand w/ little amount of medium sand; VERY DENSE.	25	32	18/3		60				2.63				100	97	45
20	SS-20	67				End of Borehole (19.85 m)	20	50/15			48				2.63				100	97	36

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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

図5-3-3（100/221）柱状図（フェーズI実施分）