FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 5a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Lambingan Br., Sta. Ana, Mla.
BH NO: BL-5 DATE DRILLED: 21 - 22 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.290
STATION NO.: 9 + 925
WEATHER: FAIR

DEPTH OF WATER: 4.00 m.
DATE MEASURED: 22 Nov. 2000
TIME MEASURED: 2:00 PM
COORDINATES: 1613200.727 N, 501933.024 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**; grayish brown; 47% medium to high plasticity clayey fines; 29% fine to coarse sand; 24% gravel; SOFT To FIRM.	3	5	3		24		59	33	2.64			76	68	58	47
2	SS-2	67					4	3	4												
3	SS-3	67		SM		**Silty Fine SAND**; dark gray; 72% fine sand; 11% medium sand; 14% non-plastic silt; LOOSE.	2	3	6												
4	SS-4	56					3	3	3		30				2.63			99	97	86	14
5	SS-5	67		SP		**Fine to Medium SAND**; dark gay; 73% fine to medium sand; 13% non-plastic silt; 8% coarse sand and 6% gravel; LOOSE TO MEDIUM DENSE.	5	3	8												
6	SS-6	67					5	7	6												
7	SS-7	67					3	5	7		23				2.63			94	86	62	13
8	SS-8	67					1	3	6												
9	SS-9	67		SW		**Gravelly SAND**; dark gray; 68% well-graded sand; 29% gravel; very little fines; MEDIUM DENSE.	13	14	14												
10	SS-10	67					10	10	12		14				2.64			71	45	15	3
11	SS-11	67					7	11	11												
12	SS-12	67		CH		**Silty CLAY**; dark gray; 88-91% very high plasticity clay with about 9% fine to coarse sand and traces of gravel and shell fragments; FIRM TO VERY STIFF towards the bottom layer.	2	2	2												
13	UDS-1	100					PRESSED				91	1.34	81	52	2.60	Cc 0.970 / 0.16	Pc 0.830 / 8.00	97	92	91	88*
14	SS-13	67					4	3	3												
15	SS-14	67					3	2	2												
16	SS-15	67					2	2	3												
17	SS-16	67				**Silty CLAY** (same as above) VERY STIFF	10	14	16		93		80	45	2.60			100	99	97	91
18	SS-17	67		SM		**Silty SAND**; dark gray; fine to coarse sand with shell fragments and non-plastic silt; DENSE.	11	13	25												
19	CR-1	45		ST	15	**SILTSTONE**; brown; fine grained; moderately cemented; broken core; HARD.	CORING														
20	CR-2	39			23		CORING				31	1.62				46.14	1.48				

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

Figure 5-3-3 (16/221) BORING LOGS (PHASE1)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 5b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Lambingan Br., Sta. Ana, Mla.
BH NO: BL-5 DATE DRILLED: 21 - 22 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.290
STATION NO.: 9 + 925
WEATHER: FAIR
COORDINATES: 1613200.727 N, 501933.024 E

DEPTH OF WATER: 4.00 m
DATE MEASURED: 22 Nov. 2000
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, %	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	CR-3	44		SS	0	SILTSTONE; brown; fine-grained; moderately cemented; broken core; HARD.	CORING												
						End of Boring (21.00 m)													
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
32																			
33																			
34																			
35																			
36																			
37																			
38																			
39																			
40																			

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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

Figure 5-3-3 (17/221) BORING LOGS (PHASE1)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS BL - 6

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Mabini St., Poblacion Makati
BH NO: BL - 6 DATE DRILLED: 22 - 23 Nov. 2000

GROUND ELEV. (MLLW = Zero Datum) + 12.923
STATION NO.: 12 + 955
WEATHER: F A I R

DEPTH OF WATER: 0.75 m
DATE MEASURED: 23 Nov. 2000
TIME MEASURED: 4:15 PM

COORDINATES: 1611162.445 N, 503385.667 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	20
1	SS-1	67		CH		**Sandy CLAY**; brown to dark gray; 59% medium to high plasticity clay with 31% fine sand and 10% medium to coarse sand; FIRM To VERY STIFF.	7	8	8		35		52	28	2.62			100	97	90	5
2	SS-2	78					4	3	2												
3	SS-3	78					4	5	5												
4	SS-4	67		GM		**Sandy GRAVEL**; dark gray; 49% sub-angular gravel with 31% fine to coarse sand and 20% non-plastic silt; DENSE.	15	50			38				2.63			51	43	33	2
5	SS-5	78					25	50													
6	CR-1	100		LT	100	**Lapilli TUFF**; light brown to yellowish brown; medium to coarse grained; well cemented; solid cores; VERY HARD.	CORING														
	CR-2	100			100		CORING														
7	CR-3	100			100		CORING														
8	CR-4	100			100		CORING				24	1.77				18.50	1.44				
9	CR-5	100			100		CORING														
10	CR-6	100			100		CORING														
11						End of Boring (10.55 m)															
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

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DRILLER: I. ANDOYO
SUPERVISOR: M. Estaura

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

Figure 5-3-3 (18/221) BORING LOGS (PHASE I)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — BL - 7

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, West Rembo, Makati
BH NO: BL - 7 DATE DRILLED: 22 - 23 Nov. 2000

GROUND ELEV. (MLLW = Zero Datum) + 17.415
STATION NO.: 15+ 255
WEATHER: F A I R

DEPTH OF WATER: 4.80 m
DATE MEASURED: 23 Nov. 2000
TIME MEASURED: 7:30 AM

COORDINATES: 1610995.762 N, 505572.421 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	55		SM		**Silty SAND**; dark brown; 43% fine to coarse sand; 23% gravel; 34% non-plastic silt; MEDIUM DENSE.	5	10	7		18				2.64			77	67	51	3
2	SS-2	11					50/8														
3	SS-3	11		TS		**Tuffaceous SANDSTONE**; light to dark brown; fine to medium grained, moderately cemented; broken cores; HARD.	50/9														
4	CR-1	100			80		CORING														
5	CR-2	30			20		CORING														
6	CR-3	25			20		CORING														
	SS-4	44		SP		**Gravelly SAND**; dark brown; about 50% coarse sand with 40% sub-angular gravel; VERY DENSE.	15	50/5													
7	CR-4	71			47		CORING														
8	CR-5	90			85		CORING														
9	CR-6	90			80		CORING				24	1.73				44.82	2.35				
10	CR-7	91		TS	82	**Tuffaceous SANDSTONE**; dark brown to yellowish brown; medium to coarse grained; well cemented; moderately fractured cores; VERY HARD to HARD.	CORING														
12	CR-8	30			20		CORING														
14	CR-9	70			47		CORING														
15	CR-10	25			12		CORING														
16						End of Borehole (15.36 m)																

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SUPERVISOR: M. Estaura

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

Figure 5-3-3 (19/221) BORING LOGS (PHASE1)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — BL - 8

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Napindan Flood Gate, Pasig
BH NO: BL - 8 DATE DRILLED: 10 December 2000

GROUND ELEV. (MLLW = Zero Datum) + 7.700
STATION NO.: 0 + 400
WEATHER: F A I R

DEPTH OF WATER: 3.50 m.
DATE MEASURED: 10 Dec. 2000
TIME MEASURED: 7:00 AM
COORDINATES: 1610157.687 N, 507538.111 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, %	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		SW		Gravelly SAND; gray; 50-69% well graded sand with 29-47% gravel; very little fines; LOOSE to MEDIUM DENSE.	1	5	4		12				2.64			71	46	12	2
2	SS-2	89					3	2	2												
3	SS-3	89					11	9	6		9				2.65			53	31	12	3
4	SS-4	78		ML		Clayey SILT; brownish gray; low plasticity silt with fine sand and traces of gravel; VERY STIFF.	4	7	11												
5	SS-5	89					6	8	8												
6	SS-6	89		CH		Sandy CLAY; grayish brown; 60 - 86% medium to high plasticity clay with 14 - 31% fine to coarse sand and traces of gravel; VERY STIFF.	5	5	10		40				2.64			91	78	67	60
7	SS-7	89					6	7	9												
8	SS-8	89					7	9	8												
9	SS-9	89					8	8	9		29		56	29	2.61			100	99	97	86
10	SS-10	78		SM		Silty SAND; brown; 63% very fine sand with 15% non-plastic silty fines; 16% medium sand and 5% gravel; MEDIUM DENSE To DENSE.	7	8	11												
11	SS-11	78					8	12	13												
12	SS-12	78					9	13	20		29				2.64			95	94	78	15
13	SS-13	44					15	16	34												
14	CR-1	20		ST	0	SANDSTONE; brown; fine grained; generally broken; HARD.	CORING														
15	CR-2	20			0		CORING														
16						End of Borehole (15.00 m)															
17																					
18																					
19																					
20																					

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MACHINE: ACKER ACE
DRILLER: P. MADERA
SUPERVISOR: M. Estaura

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

Figure 5-3-3 (20/221) BORING LOGS (PHASE1)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 9a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Vargas Bridge, Pasig City
BH NO: BL-9 DATE DRILLED: 12 - 14 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.736
STATION NO.: 1 + 325
WEATHER: FAIR

DEPTH OF WATER: 0.75 m.
DATE MEASURED: 14 Nov. 2000
TIME MEASURED: 12:00 NN
COORDINATES: 1611031.716 N, 507843.905 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, %	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	33		GM		Sandy GRAVEL; brown to gray; 37% sub-angular gravel;33% fine to coarse sand; 30% non-plastic fines; VERY DENSE.	4	9	50		17				2.63			63	52	44	30
2	SS-2	33		SW		Fine To Coarse SAND; gray; well-graded with some gravel; LOOSE.	5	3	2												
3	SS-3	33					2	4	2												
4	SS-4	33		SW GW		Gravelly SAND; gay; 46% well-graded sand with 40% sub-angular gravel; 14% non-plastic silty fines; VERY LOOSE To MEDIUM DENSE.	2	1	1		14				2.64			60	47	28	14
5	SS-5	67					4	9	2												
6	SS-6	33					2	2	2												
7	SS-7	44		SW		Gravelly SAND; dark gray; 69% coarse to medium sand; 28% gravel; with little amount of non-plastic silt; MEDIUM DENSE to LOOSE.	12	11	12		11				2.63			72	35	3	2
8	SS-8	100					4	3	4												
9	SS-9	100					4	2	2												
10	UDS-1	100					PRESSED				39	1.73	71	47	2.61	Cc 0.455	Pc 1.930	100	93	83	76*
11	SS-10	100					2	2	2		48		63	39	2.60	0.24	14.25	99	98	98	92
12	UDS-2	100		CH			PRESSED				50	1.62	67	38	2.60	Cc 0.625	Pc 1.650		100	99	98*
13	SS-11	100				Silty CLAY; dark gray; 76-98% very high plasticity clay with little amount of very fine sand; FIRM.	2	3	3							0.86	6.86				
14	UDS-3	100					PRESSED				55	1.52	71	44	2.60	Cc 1.060	Pc 2.170	100	91	90	89
15	SS-12	100					3	2	2												
16	SS-13	100					4	2	2		77		74	50	2.61			100	98	95	91*
17	SS-14	100					3	2	2												
18	SS-15	100					3	3	3												
19	SS-16	100					2	3	3		51		64	37	2.61				100	98	85
20	SS-17	67		GW		Sandy GRAVEL; dark gray; angular gravel with coarse to medium sand; (Tuffaceous Sandstone); VERY DENSE.	50/10														

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

MACHINE: ACKER ACE
DRILLER: R. 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 (21/221) BORING LOGS (PHASE1)

SHEET 2 OF 2

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 9b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Vargas Bridge, Pasig City
BH NO: BL-9 DATE DRILLED: 12 - 14 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.736
STATION NO.: 1 + 325
WEATHER: FAIR

DEPTH OF WATER: 0.75 m.
DATE MEASURED: 14 Nov. 2000
TIME MEASURED: 12:00 NN

COORDINATES: 1611031.716 N, 507843.905 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, %	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	CR-1	50		TS	48	**Tuffaceous SANDSTONE**; dark gray; medium to coarse grained; well-cemented; HARD.	CORING												
22	CR-2	50			46		CORING												
						End of Boring (22.00 m)													

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MACHINE: ACKER ACE
DRILLER: R. 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（22/221）BORING LOGS（PHASEI）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 10a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Antonio Dr., Maybunga, Pasig
BH NO: BL-10 DATE DRILLED: 11 - 14 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 15.581
STATION NO.: 3 + 275
WEATHER: FAIR

DEPTH OF WATER: 5.70 m.
DATE MEASURED: 14 Nov. 2000
TIME MEASURED: 10:00 AM

COORDINATES: 1612670.611 N, 508777.181 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 %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	200
1	SS-1	67		SW		**Gravelly SAND**; light brown; 66% well-graded sand; 24% gravel; 10% non-plastic fines; MEDIUM DENSE.	14	15	8		33				2.64			76	54	27	10
2	SS-2	33		GW		**Sandy GRAVEL**; brown; 59% sub-angular gravel;with 28% coarse to medium sand; little amount of non-plastic fines; VERY LOOSE TO LOOSE.	1	1	0												
3	SS-3	44					1	2	3												
4	SS-4	44					2	3	3		29				2.65			41	24	13	9
5	SS-5	44					3	3	2												
6	SS-6	33					2	3	2												
7	SS-7	44		GM		**Sandy GRAVEL**; gray; 42% sub-angular gravel; 38% fine to coarse sand; 20% non-plastic fines; MEDIUM DENSE.	8	7	5		52				2.64			58	47	31	20
8	SS-8	89					11	7	5												
9	SS-9	67		SW		**Gravelly SAND**; gray to brown; 67% fine to coarse sand with 26% sub-angular gravel; 7% non-plastic fines; MEDIUM DENSE to DENSE.	8	28	20												
10	SS-10	56					8	10	16		11				2.65			74	54	20	7
11	SS-11	56					15	19	21												
12	SS-12	56					17	21	23												
13	SS-13	89		CH		**Silty CLAY**; gray; 87-94% very high plasticity clay with about 5-12% fine medium sand; FIRM.	3	3	3		62		72	49	2.60			100	99	98	94
14	SS-14	89					5	2	2												
15	UDS-1	56					PRESSED				45	1.60	69	43	2.60	Cc 0.775 1.05	Pc 2.650 4.57		100	99	87*
16	SS-15	89					3	3	3												
17	UDS-2	56					PRESSED				26	1.90	57	36	2.61	Cc 0.220 1.13	Pc 1.600 4.57		100	99	79*
18	SS-16	89				**Sandy CLAY**; gray; 74-79% medium to high plasticity clayey fines with 20-26% very fine sand; STIFF.	2	4	6		35		56	34	2.61					100	74
19	SS-17	89					3	4	4												
20	SS-18	89					4	4	4												

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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

Figure 5-3-3 (23/221) BORING LOGS (PHASE1)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 10b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Antonio Dr., Maybunga, Pasig
BH NO: BL-10 DATE DRILLED: 11 - 14 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 15.581
STATION NO.: 3 + 275
WEATHER: FAIR
COORDINATES: 1612670.611 N, 508777.181 E

DEPTH OF WATER: 5.70 m.
DATE MEASURED: 14 Nov. 2000
TIME MEASURED: 10:00 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, %	ATTERBERG LIMITS: PLASTICITY INDEX, %	SPECIFIC GRAVITY	UNCONFINED COMP. TEST: STRENGTH kg/cm²	UNCONFINED COMP. TEST: STRAIN %	SIEVE ANALYSIS % PASSING SIEVE: 4	10	40	200
21	UDS-3	56		CH		**Silty CLAY**; gray to yellowish brown; 96-99% very high plasticity clay with very litttle or no fine fine sand; STIFF to VERY STIFF and HARD.	PRESSED												
22	SS-19	89					4 5 3		38		68	46	2.60					100	99
23	SS-20	78					8 10 13												
24	SS-21	78					8 10 10												
25	SS-22	89					7 12 14		35		72	46	2.60				100	99	96
26	SS-23	78					13 18 18												
27	SS-24	89					7 9 13												
28	SS-25	89					9 13 17		36		70	44	2.60					100	99
29	SS-26	89					8 10 12												
30	SS-27	80		GM		**Sandy GRAVEL**; brown; 43% coarse to fine sand with 44% sub-angular gravel; 13% non-plastic fines; VERY DENSE.	48 50/9 50/10		13				2.65			56	41	22	13
31	SS-28	33		CH		**Silty CLAY**; greenish gray; 98% very high plasticity clay with 2% fine to medium sand; VERY STIFF													
32	SS-29	89					24 13 17												
33	SS-30	89					11 13 16		42		61	40	2.60				100	99	98
34	SS-31	89					10 13 14												
35	SS-32	67					10 14 14		51		67	43	2.60					100	98
36						End of Boring (35.00 m)													
37																			
38																			
39																			
40																			

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

Figure 5-3-3 (24/221) BORING LOGS (PHASE I)

SHEET 1 OF 1

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

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Litton Mills, Manggahan, Pasig
BH NO: BL - 11 DATE DRILLED: 09 - 10 Dec. 2000

GROUND ELEV. (MLLW = Zero Datum) + 7.990
STATION NO.: 4 + 900
WEATHER: F A I R

DEPTH OF WATER: 2.50 m
DATE MEASURED: 10 Dec. 2000
TIME MEASURED: 7:50 AM

COORDINATES: 1614296.587 N, 508760.641 E

DEPTH, m	SAMPLE NO.	RECOVERY (%)	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 SIEVE: 4	10	40	200
1	SS-1	89		CH		**Sandy CLAY**; gray; 83% very high plasticity clay with 16% very fine sand; VERY SOFT.	1	0	0	71		76	55	2.61			100	99	99	8
2	SS-2	89					1	0	0											
3	SS-3	89				**Sandy CLAY**; dark gray; 63% high plasticity clay with 19% fine to coarse sand and 18% gravel; FIRM.	11	2	3	51		59	35	2.61			82	76	69	6
4	SS-4	89		SM		**Silty SAND**; yellowish brown; 75% fine to coarse sand; 23% non-plastic silt; VERY DENSE.	19	30	20											
	SS-5	100					50/7			48				2.63			98	64	42	2
5				TS		**Tuffaceous SANDSTONE**; gray; medium grained; moderately weathered; HARD.														
6	CR-1	72			50		CORING			28	1.70				149.286	3.809				
7	CR-2	50		ST	45	**SILTSTONE**; light brown; fine grained; broken cores; HARD.	CORING													
8	CR-3	30			24		CORING													
9	CR-4	60			51		CORING			35	1.68				54.62	1.841				
10	CR-5	75		LT	64	**Lapilli TUFF**; brown; medium to coarse grained; moderately cemented; HARD.	CORING			23	1.90				76.929	2.253				
11																				
12	CR-6	53			42		CORING													
13	CR-7	67			54		CORING													
14				TS		**Tuffaceous SANDSTONE**; dark gray; medium grained; well cemented; solid cores; VERY HARD.														
15	CR-8	75			60		CORING			27	1.91				132.004	3.181				
						End of Borehole (15.00 m)														
16																				
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: 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

Figure 5-3-3 (25/221) BORING LOGS (PHASE I)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — BL - 12

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, PBM Steel, Manggahan, Pasig
BH NO: BL - 12 DATE DRILLED: 07 Dec. 2000

GROUND ELEV. (MLLW = Zero Datum) + 8.340
STATION NO.: 6 + 175
WEATHER: F A I R
COORDINATES: 1614838.573 N, 509235.042 E

DEPTH OF WATER: 4.20 m
DATE MEASURED: 07 Dec. 2000
TIME MEASURED: 3:00 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 ε, %	SIEVE ANALYSIS % PASSING SIEVE 4	10	40	20
1	SS-1	100		CH		**Silty CLAY**; brownish gray; 82% medium to high plasticity clay with 17% fine to coarse sand; SOFT.	1	1	3		44		57	36	2.61			99	96	91	82
2	SS-2	100				**Silty CLAY**; brownish gray; medium to high plasticity; STIFF to VERY STIFF.	3	5	7												
3	SS-3	89					7	12	13												
4	SS-4	100				**Silty CLAY**; light brown to creamy brown; 71% medium plasticity clay; 18% fine to coarse sand; 11% gravel; HARD.	14	17	17		40		52	30	2.61			89	82	76	71
5	SS-5	100					9	12	24												
6	SS-6	89					13	21	21												
7	SS-7	86		CL		**Sandy CLAY**; brown; 52% low to medium plasticity silt; 41% fine sand; 6% gravel; HARD.	19	20	30/5		50		46	20	2.63			94	94	93	52
8	SS-8	78		SM		**Silty SAND**; brown; 65% medium to fine sand; 13% gravel and coarse sand; 22% non-plastic silt; DENSE.	12	23	27		49				2.63			95	87	49	22
9																					
10	CR-1	40		Tf	17	**Sandy TUFF**; brown; medium to coarse grained; moderately cemented; VERY HARD.	CORING														
11	CR-2	34			30		CORING														
12																					
13	CR-3	29			22		CORING														
14				LT		**Lapilli TUFF**; light creamy gray; medium to coarse grained; well cemented; VERY HARD.															
15	CR-4	29			18		CORING														
16						End of Borehole (15.00 m)															
17																					
18																					
19																					
20																					

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

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

Figure 5-3-3 (26/221) BORING LOGS (PHASE1)

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 13a

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Santolan, Pasig City
BH NO: BL-13 DATE DRILLED: 09 - 12 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.794
STATION NO.: 7 + 775
WEATHER: FAIR
COORDINATES: 1615729.117 N, 509023.674 E

DEPTH OF WATER: 4.50 m
DATE MEASURED: 12 Nov. 2000
TIME MEASURED: 8:00 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, %	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**; brown to brownish gray; 66% high plasticity clayey fines with 34% very fine sand; SOFT to FIRM.	2 1 1		49		56	34	2.61					100	6
2	SS-2	89					1 1 1												
3	UDS-1	50					PRESSED		43	1.71	75	48	2.61	Cc 0.305	Pc 1.290			100	66
														0.320	17.143				
4	SS-3	89					2 1 4												
5	SS-4	89				**Silty CLAY**; dark gray to brown; 90-92% very high plasticity clay with 4-7% fine sand and trace of medium to coarse sand; FIRM to VERY STIFF.	1 2 3		44		73	45	2.60			99	98	97	9
6	SS-5	89					2 3 4												
7	SS-6	100					4 5 7												
8	SS-7	100					6 6 7		44		74	51	2.60			100	99	96	9
9	SS-8	100					5 8 11												
10	SS-9	100					5 6 8												
11	SS-10	67		GM		**Sandy GRAVEL**; brown; 47% gravel with 24% fine to coarse sand and 29% silt; MED. DENSE.	9 10 14		21				2.65			53	49	46	2
12	SS-11	67		CH		**Silty CLAY**; brownish gray to gray; 88-98% high plasticity clay with 2-12% fine sand and traces of gravel; VERY STIFF to HARD.	8 8 13												
13	SS-12	44					8 8 11												
14	SS-13	78					7 9 12		52		65	44	2.60					100	8
15	SS-14	78					9 11 18												
16	SS-15	100					10 11 13												
17	SS-16	100					9 12 12		53		71	50	2.60			97	96	96	9
18	SS-17	89					9 12 20												
19	SS-18	89					11 14 24												
20	SS-19	100					9 12 17		50		70	43	2.60				100	99	9

BASIC TECHNOLOGY AND MANAGEMENT CORPORATION
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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

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

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 13b

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Santolan, Pasig City
BH NO: BL-13 DATE DRILLED: 09 - 12 November 2000

GROUND ELEV. (MLLW = Zero Datum) + 13.794
STATION NO.: 7 + 775
WEATHER: FAIR
COORDINATES: 1615729.117 N, 509023.674 E

DEPTH OF WATER: 4.50 m.
DATE MEASURED: 12 Nov. 2000
TIME MEASURED: 8:00 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	200
21	SS-20	100		CH		**Silty CLAY**; brownish gray to gray; 88-98% high plasticity clayey fines with 2-12% fine sand and traces of gravel; HARD.	13	18	19												
22	SS-21	33					15	17	21												
23	SS-22	33					15	38	12/5												
24	SS-23	33					18	50			43		75	48	2.60					100	98
	SS-24	33					20	50/7													
25						End of Boring (24.77 m)															
26																					
27																					
28																					
29																					
30																					
31																					
32																					
33																					
34																					
35																					
36																					
37																					
38																					
39																					
40																					

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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

Figure 5-3-3 (28/221) BORING LOGS (PHASEI)

SHEET 1 OF 1

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS — BL - 14

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Santolan, Pasig
BH NO: BL - 14 DATE DRILLED: 06 - 07 Nov. 2000

GROUND ELEV. (MLLW = Zero Datum) + 15.938
STATION NO.: 9 + 375
WEATHER: RAINY

DEPTH OF WATER: 2.60 m
DATE MEASURED: 07 Nov. 2000
TIME MEASURED: 11:00 AM
COORDINATES: 1616860.369 N, 508595.320 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	20
1	SS-1	56		CH		**Sandy CLAY**; brown; 80% high plasticity clay with 20% fine sand; FIRM.	2	3	2		27		64	42	2.61					100	8
2	SS-2	33					2	3	2												
3	SS-3	78				**Sandy CLAY**; brown; 89% medium to high plasticity silt with 10% fine sand; SOFT.	2	2	1												
4	SS-4	89					2	1	1		32		54	31	2.61				100	99	8
5	SS-5	67		SM		**Silty SAND**; brown to dark gray; very fine sand with non-plastic silty fines; MEDIUM DENSE.	3	4	12												
6	SS-6	78					4	5	10												
7	SS-7	44		GM		**Sandy Gravel**; dark gray; 47% sub-angular gravel with 33% coarse to fine sand and 20% non-plastic silt; MEDIUM DENSE.	7	5	6		9				2.64			53	39	27	2
8	SS-8	67		CL		**Gravelly to Sandy CLAY**; dark gray; poorly graded gravel-sand-clay mixtures of low plasticity with 20% gravel; 25% coarse sand and 49% silty to clayey fines; STIFF to VERY STIFF.	5	4	7												
9	SS-9	89					14	7	13												
10	SS-10	89					3	4	6		30				2.63			80	55	51	4
11	SS-11	78					5	9	11												
12	SS-12	78					8	11	14												
13	SS-13	89		CH		**Silty CLAY**; light yellowish brown; 96% high plasticity clay with little fine sand; VERY STIFF to HARD.	11	12	16		32		57	37	2.61				100	99	9
14	SS-14	89					10	17	27												
15	SS-15	67				**Sandy CLAY**; brown; 79% clay with 15% fine sand; HARD.	11	13	19		32		58	34	2.61			96	95	94	7
16						End of Borhole (15.00 m)															
17																					
18																					
19																					
20																					

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MACHINE: ACKER ACE
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SUPERVISOR: M. ESTAURA

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

Figure 5-3-3（29/221）BORING LOGS（PHASE1）

FINAL BOREHOLE LOG AND SUMMARY OF TEST RESULTS

BL - 15

PROJECT: Pasig-Marikina River Channel Imp. Proj.
LOCATION: Left Bank, Calumpang, Marikina
BH NO: BL - 15 DATE DRILLED: 05 - 06 Nov. 2000

GROUND ELEV. (MLLW = Zero Datum) + 14.793
STATION NO.: 11 + 875
WEATHER: F A I R

DEPTH OF WATER: 1.50
DATE MEASURED: 06 Nov. 2000
TIME MEASURED: 4:00 PM
COORDINATES: 1617415.056 N, 509909.907 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 SIEV: 4	10	40	2
1	SS-1	100			CH		**Silty CLAY**; brown; 89% high plasticity clay with 11% fine sand; SOFT.	1	2	2		36		62	42	2.60					100	
2	SS-2	100						2	2	1												
3	SS-3	78			SM		**Silty SAND**; gray; grayish brown; 51% fine sand; 22% medium sand; 16% non-plastic silt; 11% coarse sand and gravel; LOOSE.	2	2	3												
4	SS-4	89						9	4	3		17				2.64			95	89	67	1
5	SS-5	100			CH		**Silty CLAY**; greenish gray; 89% high plasticity clay with little fine sand and gravel; STIFF To VERY STIFF.	4	5	6												
6	SS-6	100						5	5	8												
7	SS-7	100						5	9	10		27		61	41	2.60			96	95	95	8
8	SS-8	100					**Sandy CLAY**; brown; 80% high plasticity clay with 18% fine to coarse sand and traces of gravel; HARD.	8	16	18												
9	SS-9	100						9	9	23												
10	SS-10	100						7	13	17		29		63	38	2.61			98	94	84	8
11	SS-11	89						9	14	19												
12	SS-12	100					**Gravelly CLAY**; brown; 66% high plasticity clay with 23% gravel and little fine sand; VERY STIFF to HARD.	9	9	12												
13	SS-13	100						10	17	18		33		58	37	2.61			77	75	73	6
	CR-1	40			GW	0	**GRAVEL**; broken cores; HARD.	CORING														
14	SS-14	100			CH		**Sandy CLAY**; brown; 77% high plasticity clay; 22% fine sand; VERY STIFF.	9	11	13												
15	SS-15	100						10	12	18		48		63	43	2.61				100	99	7
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 (30/221) BORING LOGS (PHASE I)