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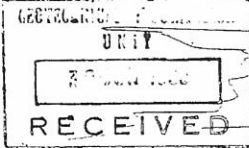
Report No: 20162

11NW23D6, 9

11NW24A2, 3, 6,

11NW24C8, 7, 8, 11SW4A2,

11SW3B2, 3, 5.



GROUND INVESTIGATION REPORT

By

VIBRO (H. K.) LIMITED

CONTRACT NO. GE/93/06

WORKS ORDER NO. GE/93/06.86


SITE LOCATION West Kowloon Reclamation

Southern Area Roads - Roads D10, D12 and D13
(Vibrocores)

CLIENT Geotechnical Engineering Office

DATE 15th March 1995

VOLUME I


 Michael T.S. CHAN
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GROUND INVESTIGATION
WORKS ORDER No. : GE/93/06.86
West Kowloon Reclamation Southern Area Roads
Roads D10, D12 & D13 (Vibrocores)

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VOLUME II

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VOLUME III

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Hole Nos. 69, 70, 71, 72, 73, 73A, 74, 75, 76, 77, 78, 79, 80 and 81 (Total 14 Nos.)

CED Term Contract : Ground Investigation - Hong Kong & Kowloon
 Contract No. GE/93/06
 Contractor : Vibro (H.K) Limited




Contract Data Summary		
Project Name : GROUND INVESTIGATION - HONG KONG & KOWLOON	Site Name: West Kowloon Reclamation Southern Area Roads	Date : Aug 93 to Jul 95
G.I. Contractor : VIBRO (H.K.) LTD.	Client : Geotechnical Engineering Office, Civil Engineering Department	Official only
Contract No. GE/93/06	Works Order No. GE/93/06.86	G.E.O. Data Bank No.
File Ref.		
Field Work Summary		
Drillholes Total No. NIL	Method : Vibrating Hammer	Date : 16 - 5 - 94 to 16 - 9 - 94
Vibrocores Total No. THIRTY-ONE		
Probes No. NIL		
Piezometers No. NIL		
In situ Tests No.	Types NIL	
Geophysics : Traverses NIL	Types NIL	
Location Plan	Scale 1 : 10000	Derived from : 1:5000 Sheet 11-NW-A & 11-SW-B


Geotechnical Engineering Office
 Civil Engineering Department, Hong Kong



VIBRO		DRILLHOLE RECORD		HOLE NO. 73								
CONTRACT GE/93/06		SHEET 1 of 4										
PROJECT West Kowloon Reclamation Southern Area Roads.												
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86								
MACHINE & No. HD30(S)		E 834432.00 N 818079.00		DATE from 31/05/94 to 31/05/94								
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.83 mPD								
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D. Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
31/05/94			77					0.00				Dark brown and greyish brown, silty fine to medium SAND with some shell fragments and occasional subrounded cobbles. (FILL)
1							VIBROCORING					Dark grey Clay from 1.68 to 1.69m. No recovery from 2.30 to 3.00m, assumed to be Sand.
2								2.63	2.30			
3			90				VIBROCORING	3.00	1.83	3.00		Brownish grey and dark brown, silty fine to coarse SAND with some subrounded coarse gravel and some shell fragments. (FILL)
4												Slightly clayey silty fine Sand from 3.60 to 3.86m and 5.10 to 5.15m.
5												Pockets (20-50mm) of brown and dark grey, Clay from 4.50 to 4.65m and 5.02 to 5.12m.
6			97				VIBROCORING	8.00				Grey and brownish grey silty fine to medium SAND with occasional shell fragments and subangular fine to medium gravel. (FILL)
7												Slightly clayey silty fine to medium Sand from 10.56 to 10.80m.
8								-2.77	7.60			Bands of clayey silty fine Sand from 11.23 to 11.75m.
9			97				VIBROCORING	9.00				
10								10.00				
LOGGED <u>WCH</u> DATE <u>30/09/94</u> CHECKED <u>MC MC</u> DATE <u>03/10/94</u>												

VIBRO		DRILLHOLE RECORD		HOLE NO. 73								
CONTRACT GE/93/06		SHEET 2 of 4										
PROJECT West Kowloon Reclamation Southern Area Roads.												
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86								
MACHINE & No. HD30(S)		E 834432.00 N 818079.00		DATE from 31/05/94 to 31/05/94								
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.83 mPD								
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D. Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
31/05/94			97									See sheet 1 of 3
11							VIBROCORING					
12			97				VIBROCORING	12.00	-6.70	11.53		Dark grey, silty fine to medium SAND with occasional subangular fine to medium gravel. (FILL)
13												Bands of clayey Silt from 13.53 to 13.95m and 14.05 to 14.30m.
14												Pockets (10-30mm) of soft, dark grey silty Clay from 14.30 to 14.40m, 14.78 to 14.93m.
15			97				VIBROCORING	16.00	-10.17	16.00		Grey, brownish grey in places, silty fine to medium SAND with occasional shell fragments. (FILL)
16												Silty coarse Sand with much shell fragments from 18.20 to 18.54m.
17												Pockets (20-30mm) of soft, dark grey silty Clay from 17.33 to 17.36m, 17.71 to 17.73m and 18.82 to 18.83m.
18			97				VIBROCORING	18.00				Sandy silty Clay with decayed organic matter from 18.55 to 20.00m.
19												
20								20.00	-15.17	20.00		
LOGGED <u>WCH</u> DATE <u>30/09/94</u> CHECKED <u>MC WLE</u> DATE <u>03/10/94</u>												

		DRILLHOLE RECORD		HOLE NO. 73									
		CONTRACT GE/93/06		SHEET 3 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834432.00 N 818079.00		DATE from 31/05/94 to 31/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.83 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
31/05/94			97					VIBROCORING					Brown and dark gray in places, clayey silty fine to medium SAND with occasional subangular fine to medium gravel. (FILL)
21			97					VIBROCORING	21.00				Clayey Silt / silty Clay from 20.37 to 20.65m and 21.80 to 22.00m. Pockets (10-40mm) of dark grey Clay from 20.64 to 20.70m, 20.71 to 20.81m, 21.27 to 21.38m, 21.40 to 21.45m, 21.51 to 21.53m and 22.71 to 22.73m. Decayed organic matter from 22.10 to 22.15m.
22								VIBROCORING	-17.97	-22.80			Dark grey, fine sandy silty CLAY. (FILL) Silty fine Sand from 23.22 to 23.33m.
23								VIBROCORING	24.00	-19.17	-24.00		Gray and brownish grey, silty medium to coarse SAND with some shell fragments. (FILL) Fine to medium Sand from 27.00 to 27.90m. Pockets (10-20mm) of soft, gray Clay from 26.30 to 26.40m.
24			97					VIBROCORING					Yellowish brown and dark brown, silty medium to coarse SAND with occasional shell fragments. (FILL) Dark grey, fine sandy silty Clay from 28.83 to 29.00m.
25								VIBROCORING	27.00				Dark grey, slightly sandy silty CLAY with occasional subangular medium gravel. (FILL)
26								VIBROCORING	-23.07	-27.00			
27			97					VIBROCORING	-24.67	-29.50			
28								VIBROCORING	-26.14	-29.97			
29								VIBROCORING					
30								VIBROCORING					

		DRILLHOLE RECORD		HOLE NO. 73									
		CONTRACT GE/93/06		SHEET 4 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834432.00 N 818079.00		DATE from 31/05/94 to 31/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.83 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
									-25.17	-30.00			Yellowish brown, clayey silty medium SAND. (ALLUVIUM) (CHEK LAP KOK FORMATION) End of investigation hole at 30.00m
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- ▨ SPT LINER SAMPLE
- ▩ U78 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- ▧ MAZIER SAMPLE
- ▦ PITON SAMPLE
- △ WATER SAMPLE
- ▱ PIZOMETER TIP
- ▽ STANDPIPE
- ⊕ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ⊙ IN-SITU VANE SHEAR TEST

LOGGED **WCH**
 DATE **30/09/94**
 CHECKED **MC** **MC**
 DATE **03/10/94**

REMARKS

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- ▨ SPT LINER SAMPLE
- ▩ U78 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- ▧ MAZIER SAMPLE
- ▦ PITON SAMPLE
- △ WATER SAMPLE
- ▱ PIZOMETER TIP
- ▽ STANDPIPE
- ⊕ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ⊙ IN-SITU VANE SHEAR TEST

LOGGED **WCH**
 DATE **30/09/94**
 CHECKED **MC** **MC**
 DATE **03/10/94**

REMARKS

VIBRO										DRILLHOLE RECORD		HOLE NO. 73A	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/06		SHEET 1 of 4	
METHOD Vibrocoring			CO-ORDINATES			W.O. No GE/93/06.86							
MACHINE & No. HD30(S)			E 834440.00			DATE from 30/05/94 to 30/05/94							
FLUSHING MEDIUM Water			ORIENTATION Vertical			GROUND LEVEL 4.58 mPD							
										N 818029.00			
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
30/05/94			80						0.00				Grey and brownish grey silty medium to coarse SAND with many shell fragments and some subangular fine gravel and occasional coarse gravel. (FILL)
1								VIBROCORING					Bands of clayey silty medium Sand at 1.70m and 1.80m.
2									2.18	2.40			Silty fine Sand from 1.40 to 1.60m and 1.80 to 2.20m.
3			80						3.00	1.68	3.00		Angular coarse Gravel at ground level.
4													Dark grey, silty medium to coarse Sand with many shell fragments and occasional angular fine gravel from 3.80 to 4.65m.
5													No recovery from 2.40 to 3.00m, assumed to be Sand.
6			97										Yellowish brown, brownish grey and dark grey in places, silty fine to medium SAND with occasional shell fragments and angular fine gravel. (FILL)
7									-0.07	4.85			Silty coarse Sand with many shell fragments and some angular fine gravel from 5.15 to 6.45m, 7.50 to 7.60m, 7.70 to 7.75m and 8.45 to 8.65m.
8									-0.82	5.40			Pockets (10mm) of dark grey, Clay at 5.70m, 7.40 to 7.50m, 7.60m, 7.70m, 11.10m and 11.20m.
9			97										No recovery from 5.40 to 6.00m, assumed to be Sand.
10									6.00	-1.42	6.00		
									8.00				
									10.00				

VIBRO										DRILLHOLE RECORD		HOLE NO. 73A	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/06		SHEET 2 of 4	
METHOD Vibrocoring			CO-ORDINATES			W.O. No GE/93/06.86							
MACHINE & No. HD30(S)			E 834440.00			DATE from 30/05/94 to 30/05/94							
FLUSHING MEDIUM Water			ORIENTATION Vertical			GROUND LEVEL 4.58 mPD							
										N 818029.00			
30/05/94			97										See sheet 1 of 3
11													
12									-6.68	11.28			Brownish grey and yellowish brown, silty fine to medium SAND with many shell fragments and occasional subangular fine gravel. (FILL)
13			97										
14													
15			93						-9.22	13.80			Brownish grey and grayish brown, silty fine SAND with occasional angular fine gravel. (FILL)
16													Layers of slightly clayey silty fine Sand from 14.20 to 14.35m, 14.60 to 14.70m and 17.80 to 18.00m.
17													Pockets (20-30mm) of clayey Silt from 17.25 to 17.30m and 17.40 to 17.50m.
18			97										
19									18.00	-13.42	18.00		Dark grey and brownish grey, clayey silty medium SAND with some shell fragments and occasional angular fine gravel. (FILL)
20													Bands of soft, dark grey Clay at 19.58m and from 20.48 to 20.60m.
									20.00				Dark grey mottled brownish red, clayey silty medium Sand from 20.80 to 21.00m.

- SMALL DISTURBED SAMPLE
- ▲ LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▣ U78 UNDISTURBED SAMPLE
- ▤ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊘ PITON SAMPLE
- △ WATER SAMPLE
- ◊ PIZOMETER TIP
- ⊕ STANDPIPE
- ⊖ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ⊖ IN-SITU VANE SHEAR TEST

LOGGED WCH

DATE 30/09/94

CHECKED MC ML

DATE 03/10/94

REMARKS

- SMALL DISTURBED SAMPLE
- ▲ LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▣ U78 UNDISTURBED SAMPLE
- ▤ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊘ PITON SAMPLE
- △ WATER SAMPLE
- ◊ PIZOMETER TIP
- ⊕ STANDPIPE
- ⊖ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ⊖ IN-SITU VANE SHEAR TEST


LOGGED WCH


DATE 30/09/94

CHECKED MC ML

DATE 03/10/94

REMARKS

										DRILLHOLE RECORD					HOLE NO. 73A	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/08					SHEET 3 of 4	
METHOD Vibrocoring					CO-ORDINATES E 834440.00 N 818029.00					W.O. No GE/93/06.86						
MACHINE & No. HD30(S)										DATE from 30/05/94 to 30/05/94						
FLUSHING MEDIUM Water					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description			
30/05/94			97					VIBROCORING	21.00	-16.42	-21.00		See sheet 2 of 3			
21			87					VIBROCORING					Yellowish brown and greyish brown, clayey in places, silty fine to coarse SAND with some angular fine gravel and occasional shell fragments. (FILL)			
22								VIBROCORING					Pockets (10-60mm) of soft, dark grey Clay from 21.88m, 22.02 to 22.10m, 22.18 to 22.21m, 22.30 to 22.42m, 22.59 to 22.80m, 24.38 to 24.50m, 25.20m, 26.33 to 26.38m, 26.43 to 26.50m, 26.52m and 26.62m.			
23								VIBROCORING					Decayed organic matter at 22.93m, 25.21m and 26.56m.			
24			97					VIBROCORING	24.00				Clayey silty fine Sand from 23.17 to 23.31m and 23.44 to 23.50m.			
25								VIBROCORING					Layers of clayey Silt from 25.74 to 25.85m and 26.10 to 26.20m.			
26								VIBROCORING								
27			93					VIBROCORING	27.00							
28								VIBROCORING	-22.79	-27.37			Dark grey, brownish grey in places, clayey silty fine SAND. (FILL)			
29								VIBROCORING	-23.22	-27.80			Pockets (10-30mm) of soft, dark grey Clay at 27.58m, 27.65 to 27.70m. Firm, light grey mottled yellowish brown and brownish red, sandy silty CLAY. (ALLUVIUM) (CHEK LAP KOK FORMATION)			
30								VIBROCORING	-25.42	-30.00			Pockets (20-30mm) of clayey Sand from 27.80 to 27.95m, 28.45 to 28.50m, 29.80 to 29.80m.			

										DRILLHOLE RECORD					HOLE NO. 73A	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/06					SHEET 4 of 4	
METHOD Vibrocoring					CO-ORDINATES E 834440.00 N 818029.00					W.O. No GE/93/06.86						
MACHINE & No. HD30(S)										DATE from 30/05/94 to 30/05/94						
FLUSHING MEDIUM Water					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description			
													End of Investigation Hole at 30.00m.			
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																

* SMALL DISTURBED SAMPLE Δ WATER SAMPLE
 + LARGE DISTURBED SAMPLE ▽ PIZOMETER TIP
 □ SPT LINER SAMPLE □ STANDPIPE
 ▨ U78 UNDISTURBED SAMPLE ⊥ STANDARD PENETRATION TEST
 ▩ U100 UNDISTURBED SAMPLE ⊥ PERMEABILITY TEST
 ▭ MAZEPER SAMPLE ⊥
 ▮ PISTON SAMPLE ▽ IN-SITU VANE SHEAR TEST

LOGGED WCH
 DATE 30/09/94
 CHECKED MC MC
 DATE 03/10/94

REMARKS

* SMALL DISTURBED SAMPLE Δ WATER SAMPLE
 + LARGE DISTURBED SAMPLE ▽ PIZOMETER TIP
 □ SPT LINER SAMPLE □ STANDPIPE
 ▨ U78 UNDISTURBED SAMPLE ⊥ STANDARD PENETRATION TEST
 ▩ U100 UNDISTURBED SAMPLE ⊥ PERMEABILITY TEST
 ▭ MAZEPER SAMPLE ⊥
 ▮ PISTON SAMPLE ▽ IN-SITU VANE SHEAR TEST

LOGGED WCH
 DATE 30/09/94
 CHECKED MC MC
 DATE 03/10/94

REMARKS

VIBRO		DRILLHOLE RECORD		HOLE NO. 74									
		CONTRACT GE/93/06		SHEET 1 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834413.00 N 818009.00		DATE from 28/05/94 to 30/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.88 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
28/05/94			80						0.00				Grey silty fine to medium SAND with some subangular fine gravel and occasional shell fragments. (FILL)
1								VIBROCORING					Brown, silty medium Sand with some subrounded fine gravel from 3.00 to 3.15m and 3.20 to 3.30m.
2									2.48	2.40			Silty coarse Sand from 0.10 to 0.40m and 1.25 to 1.40m.
3									3.00	3.00			No recovery from 2.40 to 3.00m, assumed to be Sand.
4			97					VIBROCORING					Grey and brownish grey, greyish brown in places, silty medium to coarse SAND with many shell fragments and occasional subangular fine gravel. (FILL)
5									1.08	3.80			Slightly clayey silty medium Sand from 5.32 to 5.74m, 6.25 to 7.10m and 8.17 to 8.50m.
6			83						4.00				Pocket (20mm) of soft, dark grey Clay at 8.22m.
7													No recovery from 8.50 to 9.00m, assumed to be Sand.
8								VIBROCORING					
9			97						-3.62	8.50			
10								VIBROCORING	9.00	-4.12	9.00		
									10.00	-5.02	9.00		

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE

- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IN-SITU VANE SHEAR TEST

LOGGED WCH

DATE 30/09/94

CHECKED MC ML

DATE 03/10/94

VIBRO		DRILLHOLE RECORD		HOLE NO. 74									
		CONTRACT GE/93/06		SHEET 2 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834413.00 N 818009.00		DATE from 28/05/94 to 30/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.88 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
28/05/94			97										Yellowish brown and grey, clayey in places, silty medium SAND with occasional subangular fine gravel and shell fragments. (FILL)
11								VIBROCORING					Pockets (10-30mm) of soft, dark grey and yellowish brown, Clay from 10.76m, 10.96m, 11.00 to 11.10m, 11.20m, 11.60 to 11.71m, 12.40 to 12.53m and 12.68 to 12.74m.
12			97						12.00				
13								VIBROCORING		-7.82	12.60		Grey brownish grey and yellowish brown in places, silty fine to coarse SAND with some shell fragments. (FILL)
14													Yellowish brown and brownish grey, silty medium to coarse Sand with many shell fragments from 15.00 to 15.47m, 15.60 to 15.74m and 18.30 to 18.50m.
15			97						16.00				Layers of slightly clayey silty fine Sand from 16.81 to 17.00m, 17.42 to 17.45m, 19.80 to 19.95m and 20.10 to 20.50m.
16								VIBROCORING					Yellowish brown, silty fine to medium Sand from 15.75 to 16.80m, 17.65 to 17.85m, 18.50 to 18.60m and 20.52 to 20.70m.
17													
18			97						18.00				
19								VIBROCORING					
20									20.00				

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE


- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IN-SITU VANE SHEAR TEST

LOGGED WCH


DATE 30/09/94

CHECKED MC ML


DATE 03/10/94


		DRILLHOLE RECORD		HOLE NO. 74									
		CONTRACT GE/93/06		SHEET 3 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834413.00 N 818009.00		DATE from 28/05/94 to 30/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.88 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
28/05/94			97					VIBROCORING	21.00	-16.12	-21.00		See sheet 2 of 3
21			97					VIBROCORING					Dark yellowish brown and greyish brown, silty medium to coarse SAND with much shell fragments and occasional subangular fine gravel. (FILL)
22								VIBROCORING		-17.52	-22.40		Grey, silty fine to medium SAND with occasional shell fragments. (FILL)
23								VIBROCORING		-18.02	-22.90		Dark grey, yellowish brown in places, clayey silty fine SAND with occasional subangular fine gravel. (FILL)
24			97					VIBROCORING	24.00				Pockets (10-30mm) of soft, dark grey Clay from 25.10 to 25.20m, 25.95 to 26.10m and 26.30 to 26.40m. Yellowish brown, silty medium Sand from 23.90 to 24.05m, 24.55 to 24.60m, 24.95 to 24.97m and 25.00 to 25.44m.
25								VIBROCORING					
26								VIBROCORING					
27			97					VIBROCORING	27.00	-22.12	-27.00		Yellowish brown, yellow, red and dark grey in places, silty medium to coarse SAND with occasional angular fine gravel. (FILL)
28								VIBROCORING		-22.97	-27.85		Pockets (30-50mm) of soft, red and yellow, Clay from 27.50 to 27.72m and dark grey Clay from 27.75 to 27.80m. Grayish white mottled yellowish brown very clayey silty medium to coarse SAND. (ALLUVIUM) (CHECK LAP KOK FORMATION)
29								VIBROCORING					
30								VIBROCORING		-25.12	-30.00		Pockets (50-70mm) of white, Clay from 28.60 to 28.70m, 28.70 to 28.80m, 29.10 to 29.20m and 29.30m.

<ul style="list-style-type: none"> ○ SMALL DISTURBED SAMPLE ⊕ LARGE DISTURBED SAMPLE □ SPT LINER SAMPLE ▨ U76 UNDISTURBED SAMPLE ▩ U100 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE ⊞ PISTON SAMPLE 	<ul style="list-style-type: none"> △ WATER SAMPLE ⊞ PNEZOMETER TIP ⊞ STANDPIPE ⊞ STANDARD PENETRATION TEST ⊞ PERMEABILITY TEST ⊞ IN-SITU VANE SHEAR TEST 	LOGGED <u>WCH</u> DATE <u>30/09/94</u> CHECKED <u>MC</u> <u>WLC</u> DATE <u>03/10/94</u>	REMARKS
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		DRILLHOLE RECORD		HOLE NO. 74									
		CONTRACT GE/93/06		SHEET 4 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834413.00 N 818009.00		DATE from 28/05/94 to 30/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.88 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
31													End of Investigation Hole at 30.00m.
32													
33													
34													
35													
36													
37													
38													
39													
40													












<ul style="list-style-type: none"> ○ SMALL DISTURBED SAMPLE ⊕ LARGE DISTURBED SAMPLE □ SPT LINER SAMPLE ▨ U76 UNDISTURBED SAMPLE ▩ U100 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE ⊞ PISTON SAMPLE 	<ul style="list-style-type: none"> △ WATER SAMPLE ⊞ PNEZOMETER TIP ⊞ STANDPIPE ⊞ STANDARD PENETRATION TEST ⊞ PERMEABILITY TEST ⊞ IN-SITU VANE SHEAR TEST 	LOGGED <u>WCH</u> DATE <u>30/09/94</u> CHECKED <u>MC</u> <u>MC</u> DATE <u>03/10/94</u>	REMARKS
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		DRILLHOLE RECORD		HOLE NO. 75									
		CONTRACT GE/93/06		SHEET 1 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834365.00 N 817997.00		DATE from 27/05/94 to 28/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.64 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
27/05/94			80						0.00				Dark brown, silty fine to coarse SAND with some subangular fine to medium gravel and some shell fragments. (FILL)
1								VIBROCORING					Silty medium Sand from 2.20 to 2.40m and 3.60 to 3.70m.
2									2.24	2.40			No recovery from 2.40 to 3.00m, assumed to be Sand.
3								VIBROCORING	3.00	1.64	3.00		
4			87						0.64	4.00			Dark grey, fine to medium sandy clayey SILT with occasional shell fragments. (FILL)
5									0.36	4.28			Dark brown, silty medium to coarse SAND with some shell fragments. (FILL)
6									0.14	4.50			Dark brown, silty fine to medium SAND with some shell fragments. (FILL)
7													Decayed organic matter from 4.78 to 4.81m.
8			93						6.00				Clayey silty fine Sand from 5.02 to 5.10m and 5.17 to 5.30m.
9								VIBROCORING	9.00				
10			97						10.00	-5.38	-10.00		

		DRILLHOLE RECORD		HOLE NO. 75									
		CONTRACT GE/93/06		SHEET 2 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834365.00 N 817997.00		DATE from 27/05/94 to 28/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.64 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
27/05/94			97										Dark brown, silty medium to coarse SAND with many shell fragments and occasional subangular fine gravel. (FILL)
11								VIBROCORING		-6.36	-11.00		
12									12.00				Greyish brown, silty fine to coarse SAND with some shell fragments and occasional subangular fine gravel. (FILL)
13								VIBROCORING		-8.76	-13.40		
14										-9.58	-14.22		Dark greyish brown and brown, slightly clayey silty fine SAND. (FILL)
15									15.00	-10.17	-14.81		Pockets (20-60mm) of soft, grey Clay from 13.50 to 13.53m, 13.72 to 13.76m; and soft brownish grey Clay from 14.12 from 14.16m and 14.17 from 14.22m.
16										-10.36	-15.00		Grey spotted white and brown, slightly silty coarse SAND with many shell fragments. (FILL)
17										-11.86	-16.50		Grey slightly clayey silty fine to medium SAND. (FILL)
18										-12.46	-17.10		Dark brown, silty medium to coarse SAND with many shell fragments and occasional intact shells (sizes up to 25mm). (FILL)
19								VIBROCORING	18.00	-13.36	-18.00		Brownish grey, silty fine SAND. (FILL)
20										-15.02	-19.68		Pocket (20mm) of soft, brown Clay from 16.67 to 16.70m.
21													Brownish grey, silty medium to coarse SAND with many shell fragments. (FILL)
22													Pockets (30mm) of soft, grey Clay from 17.55 to 17.57m.
23													Greyish brown, silty medium to coarse SAND with many shell fragments. (FILL)
24								VIBROCORING	20.00				Greyish brown, silty fine to medium SAND with

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






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		DRILLHOLE RECORD		HOLE NO. 75									
		CONTRACT GE/93/06		SHEET 3 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834365.00 N 817997.00		DATE from 27/05/94 to 28/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.64 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
27/05/94			97					VIBROCORING	-16.01	20.85			occasional shell fragments. (FILL)
21			90					VIBROCORING	21.00				Discrete bands of clayey Silt from 20.30 to 20.40m. Dark grey, silty fine SAND with some shell fragments. (FILL)
22								VIBROCORING					Silty fine to coarse Sand from 20.80 to 21.00m and 23.40 to 23.70m. Pockets (20mm) of soft, grey Clay from 23.41 to 23.45m.
23								VIBROCORING					
24			87					VIBROCORING	24.00	-19.38	-24.00		Greyish brown, slightly silty medium to coarse SAND with many shell fragments. (FILL)
25								VIBROCORING					
26								VIBROCORING					Dark grey, very clayey silty fine to medium SAND with occasional subangular medium gravel and cobbles. (FILL)
27			83					VIBROCORING	27.00				Pockets (30mm) of soft, grey, Clay from 25.42 to 25.50m. Subangular medium gravel and cobbles from 26.70 to 27.10m.
28								VIBROCORING					
29								VIBROCORING					Yellowish brown, clayey silty fine to coarse SAND with occasional shell fragments. (FILL)
30								VIBROCORING					Pockets (20mm) of soft, brown Clay from 29.90 to 30.10m and grey Clay from 28.40 to 28.45m. No recovery from 29.50 to 30.00m, assumed to be Sand.
								VIBROCORING	30.00	-25.35	-30.00		

○ SMALL DISTURBED SAMPLE
○ LARGE DISTURBED SAMPLE
○ SPT LINER SAMPLE
○ U76 UNDISTURBED SAMPLE
○ U100 UNDISTURBED SAMPLE
○ MAZIER SAMPLE
○ PISTON SAMPLE

△ WATER SAMPLE
□ PNEUMETER TIP
▽ STANDPIPE
⊥ STANDARD PENETRATION TEST
⊥ PERMEABILITY TEST
⊥ IN-SITU VANE SHEAR TEST

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		DRILLHOLE RECORD		HOLE NO. 75									
		CONTRACT GE/93/06		SHEET 4 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834365.00 N 817997.00		DATE from 27/05/94 to 28/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.64 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
27/05/94			83					VIBROCORING					See sheet 3 of 4
31								VIBROCORING	-25.98	30.00			Greyish brown, slightly clayey silty fine to medium SAND. (FILL)
32								VIBROCORING	-26.31	30.85			Dark grey and brown in places, fine to medium sandy silty CLAY. (FILL)
33								VIBROCORING	-27.44	32.08			Pockets (40-100mm) of soft, dark grey Clay from 30.85 to 31.00m, 31.20 to 31.25m, 31.35 to 31.50m and 31.50 to 31.60m.
34								VIBROCORING	-27.88	32.50			Light whitish grey, clayey silty medium to coarse SAND. (ALLUVIUM) (CHEK LAP KOK FORMATION)
35								VIBROCORING	33.00	-28.38	-33.00		No recovery from 32.50 to 33.00m, assumed to be Sand. End of Investigation Hole at 33.00m
36								VIBROCORING					
37								VIBROCORING					
38								VIBROCORING					
39								VIBROCORING					
40								VIBROCORING					

○ SMALL DISTURBED SAMPLE
○ LARGE DISTURBED SAMPLE
○ SPT LINER SAMPLE
○ U76 UNDISTURBED SAMPLE
○ U100 UNDISTURBED SAMPLE
○ MAZIER SAMPLE
○ PISTON SAMPLE

△ WATER SAMPLE
□ PNEUMETER TIP
▽ STANDPIPE
⊥ STANDARD PENETRATION TEST
⊥ PERMEABILITY TEST
⊥ IN-SITU VANE SHEAR TEST

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VIBRO		DRILLHOLE RECORD		HOLE NO. 76									
		CONTRACT GE/93/06		SHEET 1 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834278.00 N 817957.00		DATE from 25/05/94 to 26/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.58 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
25/05/94			77					VIBROCORING	0.00				Greyish brown, silty fine to medium SAND with occasional shell fragments. (FILL)
1								VIBROCORING	3.58	1.00			Brownish grey, silty medium to coarse SAND with some shell fragments and occasional subangular fine to medium gravel. (FILL)
2								VIBROCORING	2.28	2.30			No recovery from 2.30 to 3.00m, assumed to be Sand.
3			87					VIBROCORING	3.00				Grey, slightly clayey silty fine to medium SAND with occasional subangular fine gravel. (FILL)
4								VIBROCORING	1.08	3.50			Clayey Silt from 3.50 to 3.60m.
5								VIBROCORING	0.43	4.15			Brownish grey and yellowish brown, silty fine to medium SAND with some shell fragments. (FILL)
6								VIBROCORING					Clayey Silt from 4.32 to 4.33m.
7			87					VIBROCORING	6.00	-1.42	6.00		Greyish brown and brown, silty fine to coarse SAND with some shell fragments and occasional whole shell (30mm) from 7.32 to 7.75m. (FILL)
8								VIBROCORING					Clayey Silt from 6.60 to 6.74m.
9								VIBROCORING					Discrete bands of clayey Silt from 8.45 to 8.60m and 8.65 to 8.85m
10			87					VIBROCORING	8.00	-4.42	9.00		Brownish grey, dark grey and brown in places, silty medium to coarse SAND with some shell fragments and occasional subangular fine to medium gravel. (FILL)

VIBRO		DRILLHOLE RECORD		HOLE NO. 76									
		CONTRACT GE/93/06		SHEET 2 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834278.00 N 817957.00		DATE from 25/05/94 to 26/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.58 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
								VIBROCORING					Fine sandy silty Clay from 14.48 to 14.70m.
11								VIBROCORING					Pockets (30mm) of soft, dark grey silty Clay from 14.85 to 15.00m
12								VIBROCORING	12.00				
13								VIBROCORING					
14								VIBROCORING					
15								VIBROCORING	15.00	-10.42	15.00		Yellowish brown and brownish grey, silty fine to medium SAND with some shell fragments and occasional angular medium gravel. (FILL)
16								VIBROCORING					Pockets (30mm) of brown and dark grey, Clay from 16.33 to 16.37m, 16.74 to 16.79m and 17.93 to 17.95m.
17								VIBROCORING					Silty coarse Sand from 16.40 to 16.67m.
18								VIBROCORING	18.00	-13.42	18.00		Dark brown, silty fine to medium SAND with occasional subangular fine to medium gravel. (FILL)
19								VIBROCORING		-14.12	18.70		Grey, silty fine to medium SAND with occasional shell fragments. (FILL)
20								VIBROCORING	20.00	-15.42	20.00		Clayey Silt from 19.48 to 19.55m, 19.68 to 19.70m and 19.72 to 19.74m.

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U79 UNDISTURBED SAMPLE
- ▩ U76 UNDISTURBED SAMPLE
- ▧ U100 UNDISTURBED SAMPLE
- ▦ MAZIER SAMPLE
- ▤ PISTON SAMPLE
- △ WATER SAMPLE
- ◻ PIEZOMETER TIP
- ◼ STANDOFF
- ◽ STANDARD PENETRATION TEST
- ◾ PERMEABILITY TEST
- ◿ IN-SITU VANE SHEAR TEST


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REMARKS

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U79 UNDISTURBED SAMPLE
- ▩ U76 UNDISTURBED SAMPLE
- ▧ MAZIER SAMPLE
- ▤ PISTON SAMPLE
- △ WATER SAMPLE
- ◻ PIEZOMETER TIP
- ◼ STANDOFF
- ◽ STANDARD PENETRATION TEST
- ◾ PERMEABILITY TEST
- ◿ IN-SITU VANE SHEAR TEST

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REMARKS

										DRILLHOLE RECORD					HOLE NO. 76	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/06					SHEET 3 of 4	
METHOD VIBROCORING					CO-ORDINATES E 834278.00 N 817957.00					W.O. No GE/93/06.86 DATE from 25/05/94 to 26/05/94						
MACHINE & No. HD30(S)					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
FLUSHING MEDIUM Water					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description			
26/05/94			93					VIBROCORING					Brown to greyish brown, dark grey in places, silty fine to medium SAND with some shell fragments. (FILL)			
21			97					VIBROCORING	21.00				Peaty silty fine Sand from 20.38 to 20.40m and 20.48 to 20.51m. Clayey Silt from 23.24 to 23.30m and 23.50 to 23.80m. Silty coarse Sand with many shell fragments from 25.60 to 25.95m.			
22								VIBROCORING								
23								VIBROCORING								
24			97					VIBROCORING	24.00							
25								VIBROCORING								
26								VIBROCORING	-21.38	25.96			Brown, clayey silty fine SAND. (FILL)			
27			97					VIBROCORING	27.00				Pockets (10-60mm) of soft, dark grey, silty Clay from 26.00 to 26.15m, 26.35 to 26.42m, 26.57 to 26.60m, 26.76 to 26.82m and 27.35 to 27.42m. Silty coarse Sand from 27.00 to 27.27m.			
28								VIBROCORING	-22.84	27.42			Dark greenish grey, dark grey in places, very fine sandy clayey SILT. (FILL)			
29								VIBROCORING					Pockets (20-80mm) of soft, dark grey, Clay from 27.40 to 27.43m, 27.73 to 27.78m, 28.17 to 28.23m, 28.29 to 28.31m, 28.42 to 28.44m, 28.55 to 28.61m, 28.64 to 28.70m, 28.76 to 28.86m, 28.05 to 29.12m, 29.47 to 29.50m, 28.53 to 29.57m, 29.69 to 29.76m, 30.14 to 30.23m, 30.38 to 30.42m and 30.46 to 30.48m. Decayed organic matter from 28.46 to 28.49m.			
30								VIBROCORING	30.00							

										DRILLHOLE RECORD					HOLE NO. 76	
PROJECT West Kowloon Reclamation Southern Area Roads.										CONTRACT GE/93/06					SHEET 4 of 4	
METHOD VIBROCORING					CO-ORDINATES E 834278.00 N 817957.00					W.O. No GE/93/06.86 DATE from 25/05/94 to 26/05/94						
MACHINE & No. HD30(S)					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
FLUSHING MEDIUM Water					ORIENTATION Vertical					GROUND LEVEL 4.58 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description			
26/05/94			97					VIBROCORING								
31								VIBROCORING	-26.42	31.00			Dark greenish grey, slightly sandy silty CLAY. (FILL)			
32								VIBROCORING	-27.87	32.45			Clayey silty fine to medium Sand from 31.33 to 31.35m.			
33								VIBROCORING	33.00	-28.42	33.00		Brownish grey, very clayey silty medium to coarse SAND. (ALLUVIUM) (CHEK LAP KOK FORMATION) End of Investigation Hole at 33.00m			
34																
35																
36																
37																
38																
39																
40																

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U78 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊔ PISTON SAMPLE
- △ WATER SAMPLE
- ▽ PIEZOMETER TIP
- STANDPIPE
- ⊥ STANDARD PENETRATION TEST
- ⊥ PERMEABILITY TEST
- ⊥ IN-SITU VANE SHEAR TEST

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REMARKS

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U78 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊔ PISTON SAMPLE
- △ WATER SAMPLE
- ▽ PIEZOMETER TIP
- STANDPIPE
- ⊥ STANDARD PENETRATION TEST
- ⊥ PERMEABILITY TEST
- ⊥ IN-SITU VANE SHEAR TEST

LOGGED WCH
 DATE 30/09/94
 CHECKED MC ML
 DATE 03/10/94

REMARKS

VIBRO										DRILLHOLE RECORD		HOLE NO. 77	
CONTRACT GE/93/06										SHEET 1 of 4			
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring			CO-ORDINATES E 834245.00 N 817919.00				W.O. No GE/93/06.86						
MACHINE & No. HD30(S)							DATE from 24/05/94 to 25/05/94						
FLUSHING MEDIUM Water			ORIENTATION Vertical				GROUND LEVEL 4.65 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
24/05/94			80						0.00				Brown and greyish brown in places silty fine to medium SAND with occasional angular fine to medium gravel and shell fragments. (FILL)
1								VIBROCORING					Silty fine Sand from 3.88 to 3.97m.
2									2.25	2.40			Silty coarse Sand with shell fragments from 4.40 to 4.85m.
3			90						3.00	1.65	3.00		Discrete bands of silty fine Sand from 4.85 to 5.05m.
4													No recovery from 2.40 to 3.00m, assumed to be Sand.
5													
6			93						8.00				Brownish grey, silty fine to medium SAND with some angular fine to medium gravel and occasional whole shells (60mm) from 8.85 to 8.90m. (FILL)
7													
8													
9			97						9.00	-4.35	9.00		Brownish grey silty medium to coarse SAND with some angular fine gravel and shell fragments. (FILL)
10										-4.95	9.60		Brownish grey, silty fine to medium SAND with some angular fine gravel and many shell fragments.

VIBRO										DRILLHOLE RECORD		HOLE NO. 77	
CONTRACT GE/93/06										SHEET 2 of 4			
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring			CO-ORDINATES E 834245.00 N 817919.00				W.O. No GE/93/06.86						
MACHINE & No. HD30(S)							DATE from 24/05/94 to 25/05/94						
FLUSHING MEDIUM Water			ORIENTATION Vertical				GROUND LEVEL 4.65 mPD						
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
24/05/94													(FILL)
11								VIBROCORING					Disturbed silty medium Sand with occasional carbonaceous fragments from 11.65 to 12.00m.
12									12.00				Silty medium to coarse Sand from 12.55 to 13.00m and 14.50 to 15.00m.
13													Slightly clayey silty fine to medium Sand from 13.45 to 13.60m.
14													Pockets (20-50mm) of soft dark grey Clay from 15.17 to 15.20m and 16.30 to 16.34m.
15									15.00				
16													
17										-11.85	16.50		Brown, silty fine to medium SAND with some shell fragments and occasional subangular fine to medium gravel. (FILL)
18									18.00				Slightly clayey silty fine to medium Sand from 18.30 to 18.70m and 20.70 to 20.84m.
19													Pockets (average 20mm) of soft dark grey Clay from 17.14 to 17.16m, 19.65 to 20.00m, 20.97 to 21.00m, 21.49 to 21.51m.
20													Decayed organic matters from 21.63 to 21.66m.
													Silty medium to coarse Sand from 21.35 to 21.67m.

● SMALL DISTURBED SAMPLE △ WATER SAMPLE
 ○ LARGE DISTURBED SAMPLE □ PIEZOMETER TIP
 ▣ SPT LINER SAMPLE ◻ STANDPIPE
 ▤ U76 UNDISTURBED SAMPLE ⊕ STANDARD PENETRATION TEST
 ▥ U100 UNDISTURBED SAMPLE ⊕ PERMEABILITY TEST
 ▧ MAZIER SAMPLE ⊕ IN-SITU VANE SHEAR TEST
 ▨ PITON SAMPLE

LOGGED WCH
 DATE 01/08/94
 CHECKED MC ML
 DATE 02/08/94

REMARKS

● SMALL DISTURBED SAMPLE △ WATER SAMPLE
 ○ LARGE DISTURBED SAMPLE □ PIEZOMETER TIP
 ▣ SPT LINER SAMPLE ◻ STANDPIPE
 ▤ U76 UNDISTURBED SAMPLE ⊕ STANDARD PENETRATION TEST
 ▥ U100 UNDISTURBED SAMPLE ⊕ PERMEABILITY TEST
 ▧ MAZIER SAMPLE ⊕ IN-SITU VANE SHEAR TEST
 ▨ PITON SAMPLE

LOGGED WCH
 DATE 01/08/94
 CHECKED MC ML
 DATE 02/08/94

REMARKS

VIBRO										DRILLHOLE RECORD		HOLE NO. 77			
CONTRACT GE/93/06										SHEET 3 of 4					
PROJECT West Kowloon Reclamation Southern Area Roads.										METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86	
MACHINE & No. HD30(S)										E 834245.00		DATE from 24/05/94 to 25/05/94		N 817919.00	
FLUSHING MEDIUM Water										ORIENTATION Vertical		GROUND LEVEL 4.65 mPD			
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description		
24/05/94			87					VIBROCORING					See sheet 2 of 4		
21			97					VIBROCORING	21.00						
22								VIBROCORING	-17.05	-21.70			Dark grey to grey, silty fine to medium SAND with some subangular coarse gravel and some shell fragments. (FILL)		
23								VIBROCORING					Pockets of soft dark grey Clay from 22.87 to 22.89m, 23.00 to 23.15m and 23.78 to 23.83m. Silty fine to medium Sand from 21.70 to 22.00m.		
24			93					VIBROCORING	24.00	-19.35	-24.00		Brown, silty medium to coarse SAND with much shell fragments. (FILL)		
25								VIBROCORING	-20.75	-25.40			Brown and dark grey in places, silty fine to medium SAND. (FILL)		
26								VIBROCORING					Disturbed clayey fine Sand with decayed organic matter from 25.45 to 25.80m. Dark grey and brown Clay from 26.45 to 27.00m.		
27			90					VIBROCORING	27.00						
28								VIBROCORING	-23.35	-28.00			Brown mottled dark grey and light grey and striped light grey silty fine SAND with subrounded fine to medium gravel. (FILL)		
29								VIBROCORING					Pockets (20-150mm) of soft dark grey and brown Clay from 28.20 to 28.27m, 28.40 to 28.44m, 28.67 to 28.70m, 28.85 to 28.00m, 29.04 to 29.15m, 29.42 to 29.50m, 29.56 to 29.68m and 29.88 to 29.95m.		
30								VIBROCORING	30.00	-25.35	-30.00				

● SMALL DISTURBED SAMPLE △ WATER SAMPLE
+ LARGE DISTURBED SAMPLE ■ PIZOMETER TIP
□ SPT LINER SAMPLE ○ STANDPIPE
○ U76 UNDISTURBED SAMPLE ⊥ STANDARD PENETRATION TEST
○ U100 UNDISTURBED SAMPLE ⊥ PERMEABILITY TEST
○ MAZIER SAMPLE ⊥ IN-SITU VANE SHEAR TEST
○ PISTON SAMPLE

LOGGED WCH
 DATE 01/08/94
 CHECKED MC MC
 DATE 02/08/94

VIBRO										DRILLHOLE RECORD		HOLE NO. 77			
CONTRACT GE/93/06										SHEET 4 of 4					
PROJECT West Kowloon Reclamation Southern Area Roads.										METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86	
MACHINE & No. HD30(S)										E 834245.00		DATE from 24/05/94 to 25/05/94		N 817919.00	
FLUSHING MEDIUM Water										ORIENTATION Vertical		GROUND LEVEL 4.65 mPD			
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description		
28/05/94			97					VIBROCORING					Dark brown clayey silty fine SAND with many pockets of dark grey clay. (FILL)		
31								VIBROCORING					Pockets (20-100mm) of soft dark grey Clay from 31.33 to 31.35m, 31.52 to 31.54m, 31.66 to 31.71m, 31.74 to 31.88m, 31.91 to 32.18m, 32.24 to 32.28m, 32.40 to 32.45m. Dark grey Clay from 32.57 to 32.72m.		
32								VIBROCORING	-28.07	-32.72					
33								VIBROCORING	-28.35	-33.00			Light grey fine sandy silty CLAY with some subangular fine to medium gravel. (ALLUVIUM) (CHEK LAP KOK FORMATION) End of Investigation Hole at 33.00m.		
34															
35															
36															
37															
38															
39															
40															

● SMALL DISTURBED SAMPLE △ WATER SAMPLE
+ LARGE DISTURBED SAMPLE ■ PIZOMETER TIP
□ SPT LINER SAMPLE ○ STANDPIPE
○ U76 UNDISTURBED SAMPLE ⊥ STANDARD PENETRATION TEST
○ U100 UNDISTURBED SAMPLE ⊥ PERMEABILITY TEST
○ MAZIER SAMPLE ⊥ IN-SITU VANE SHEAR TEST
○ PISTON SAMPLE

LOGGED WCH
 DATE 01/08/94
 CHECKED MC MC
 DATE 02/08/94

VIBRO		DRILLHOLE RECORD		HOLE NO. 78									
		CONTRACT GE/93/06		SHEET 1 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES E 834212.00 N 817882.00		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)				DATE from 23/05/94 to 24/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.69 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
23/05/94			83						0.00				Dark greyish brown, silty fine to medium SAND with some subangular fine to medium gravel and shell fragments. (FILL)
1								VIBROCORING	2.19	2.50			Silty coarse Sand with some shell fragments from 0.65 to 0.72m, 1.05 to 1.20m and 2.35 to 2.50m.
2													No recovery from 2.50 to 3.00m, assumed to be Sand.
3			93						3.00	1.69	3.00		Grey and greyish brown, silty fine to medium SAND with some shell fragments. (FILL)
4								VIBROCORING	1.19	3.50			Decayed organic matter from 3.48 to 3.50m and 3.55 to 3.58m.
5													
6			93						6.00				
7								VIBROCORING					
8										-2.78	7.47		Grey, silty fine to medium SAND with occasional angular coarse gravel. (FILL)
9			97						9.00				Silty coarse Sand with much shell fragments from 7.67 to 8.00m.
10								VIBROCORING					Pockets (50-70mm) of soft, dark grey Clay from 8.47 to 8.51m and 8.70 to 8.78m.
									10.00	-6.31	10.00		Discrete bands of silty fine Sand from 7.60 to 7.65m and 8.55 to 8.62m.

- SMALL DISTURBED SAMPLE
- ▲ WATER SAMPLE
- LARGE DISTURBED SAMPLE
- PIZZOMETER TIP
- SPT LIKER SAMPLE
- ▽ STANDPIPE
- U75 UNDISTURBED SAMPLE
- STANDARD PENETRATION TEST
- U100 UNDISTURBED SAMPLE
- PERMEABILITY TEST
- MAZIER SAMPLE
- IN-SITU VANE SHEAR TEST
- PISTON SAMPLE

LOGGED WCH
 DATE 02/08/94
 CHECKED MC MC
 DATE 03/08/94

REMARKS

VIBRO		DRILLHOLE RECORD		HOLE NO. 78									
		CONTRACT GE/93/06		SHEET 2 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES E 834212.00 N 817882.00		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)				DATE from 23/05/94 to 24/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.69 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
23/05/94			97										Brown and brownish grey, silty fine to medium SAND with some shell fragments. (FILL)
11								VIBROCORING					Pockets (20-100mm) of soft, dark grey and brown, fine sandy silty Clay from 11.23 to 11.25m, 11.70 to 11.84m.
12			97						12.00				
13								VIBROCORING					
14									-8.01	13.50			Brownish grey becoming dark grey, slightly clayey silty fine to medium SAND. (FILL)
15									15.00	-10.31	15.00		Discrete bands of clayey silty fine Sand from 13.70 to 14.50m.
16			97										Brown, silty fine to medium SAND with occasional shell fragments. (FILL)
17								VIBROCORING					Silty fine Sand from 15.90 to 16.00m.
18									-11.61	16.30			Dark grey and brownish grey in places, clayey silty fine SAND. (FILL)
19													Silty medium Sand from 17.33 to 17.54m and 17.85 to 18.00m.
20			97						18.00	-13.31	18.00		Brown to brownish grey, slightly clayey silty fine to medium SAND. (FILL)
								VIBROCORING					Pockets (50mm) of soft, dark grey Clay from 20.15 to 20.20m.
													Discrete bands of clayey silty fine Sand from 20.25 to 20.70m.

- SMALL DISTURBED SAMPLE
- ▲ WATER SAMPLE
- LARGE DISTURBED SAMPLE
- PIZZOMETER TIP
- SPT LIKER SAMPLE
- ▽ STANDPIPE
- U75 UNDISTURBED SAMPLE
- STANDARD PENETRATION TEST
- U100 UNDISTURBED SAMPLE
- PERMEABILITY TEST
- MAZIER SAMPLE
- IN-SITU VANE SHEAR TEST
- PISTON SAMPLE

LOGGED WCH
 DATE 02/08/94
 CHECKED MC MC
 DATE 03/08/94

REMARKS

VIBRO		DRILLHOLE RECORD		HOLE NO. 78									
		CONTRACT GE/93/06		SHEET 3 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834212.00 N 817882.00		DATE from 23/05/94 to 24/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.69 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
21			97					VIBROCORING	21.00	-18.46	21.15		See sheet 2 of 3
22			97					VIBROCORING					Greyish brown and grey silty fine to medium SAND with some shell fragments. (FILL) Silty coarse Sand with much shell fragments from 22.75 to 23.15m, and 24.70 to 25.00m. Discrete bands of clayey silty fine Sand from 23.35 to 23.70m. Decayed organic matter from 23.25 from 23.30m.
23								VIBROCORING					
24			97					VIBROCORING	24.00				
25								VIBROCORING		-20.46	25.16		
26								VIBROCORING		-21.01	25.70		Yellowish brown, clayey fine to medium sandy SILT with occasional subangular fine gravel. (FILL) Black and dark grey, clayey silty fine SAND. (FILL) Pockets (20-120mm) of soft, dark grey Clay 26.05 to 26.17m, 26.32 to 26.43m, 26.53 to 26.62m, 26.65 to 26.68m, 26.70 to 26.72m and 26.80 to 26.90m.
27								VIBROCORING	27.00	-22.21	26.90		Decayed organic matter from 26.15 to 26.80m. Light grey mottled brown, very silty clayey medium to coarse SAND with occasional fine subangular gravel and shell fragments. (FILL) End of investigation hole at 27.00m
28													
29													
30													


● SMALL DISTURBED SAMPLE △ WATER SAMPLE
○ LARGE DISTURBED SAMPLE ■ PIZOMETER TIP
□ SPT LINER SAMPLE ▽ STANDPIPE
▨ U76 UNDISTURBED SAMPLE ⊖ STANDARD PENETRATION TEST
▩ U100 UNDISTURBED SAMPLE ⊕ PERMEABILITY TEST
⊗ MAZIER SAMPLE ⊥ IN-SITU VANE SHEAR TEST
⊘ PISTON SAMPLE


LOGGED WCH
 DATE 02/08/94
 CHECKED MC ML
 DATE 03/08/94

VIBRO		DRILLHOLE RECORD		HOLE NO. 79									
		CONTRACT GE/93/06		SHEET 1 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834180.00 N 817843.00		DATE from 21/05/94 to 23/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.87 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
21/05/94			67					VIBROCORING	0.00				Brownish grey, silty fine to medium SAND with some shell fragments. (FILL) No recovery from 2.01 to 3.00m, assumed to be Sand.
1								VIBROCORING		2.86	2.01		
2								VIBROCORING					
3								VIBROCORING	3.00	1.87	3.00		Dark brown, silty fine to medium SAND. (FILL)
4			70					VIBROCORING		1.67	3.30		Yellowish brown to brown, silty medium to coarse SAND with many shell fragments and occasional subangular medium gravel. (FILL)
5								VIBROCORING		0.37	4.60		Grey and brown, silty fine to medium SAND with some shell fragments and occasional subangular fine to medium gravel. (FILL)
6								VIBROCORING		-0.23	5.10		Pockets (30-80mm) of soft, dark grey Clay from 4.44 to 4.99m and 5.00 to 5.08m.
7								VIBROCORING	6.00	-1.13	6.00		No recovery from 5.10 to 6.00m, assumed to be Sand.
8								VIBROCORING		-2.13	7.00		Brownish grey and brown, silty fine to coarse SAND with some shell fragments and occasional subangular medium gravel. (FILL)
9								VIBROCORING					Silty coarse Sand with many shell fragments from 7.22 to 7.42m, 9.60 to 9.80m and 11.10 to 11.42m. Silty Clay from 8.30 to 8.70m. Clayey silty fine Sand from 9.50 to 10.20m.
10			97					VIBROCORING	10.00				

● SMALL DISTURBED SAMPLE △ WATER SAMPLE
○ LARGE DISTURBED SAMPLE ■ PIZOMETER TIP
□ SPT LINER SAMPLE ▽ STANDPIPE
▨ U76 UNDISTURBED SAMPLE ⊖ STANDARD PENETRATION TEST
▩ U100 UNDISTURBED SAMPLE ⊕ PERMEABILITY TEST
⊗ MAZIER SAMPLE ⊥ IN-SITU VANE SHEAR TEST
⊘ PISTON SAMPLE

LOGGED WCH
 DATE 02/08/94
 CHECKED MC ML
 DATE 03/08/94

		DRILLHOLE RECORD		HOLE NO. 79									
		CONTRACT GE/93/06		SHEET 2 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834180.00 N 817843.00		DATE from 21/05/94 to 23/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.87 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
21/05/94			97										See sheet 1 of 3
11								VIBROCORING					
12			97					VIBROCORING	12.00	-7.13	-12.00		Brown and greyish brown, silty fine to medium SAND with some shell fragments and occasional angular fine to medium gravel. (FILL)
13								VIBROCORING					
14								VIBROCORING					
15								VIBROCORING	15.00				
23/05/94			97					VIBROCORING					
16								VIBROCORING					
17								VIBROCORING		-11.83	-16.60		Brown and dark grey in places, silty medium to coarse SAND with some shell fragments. (FILL) Pockets (50-70mm) of soft, dark grey Clay from 16.82 to 16.90, 17.32 to 17.35m.
18			97					VIBROCORING	18.00				Discrete bands of fine sandy clayey Silt from 17.10 to 17.20m, 17.40 to 17.57m and 17.64 to 17.71m. Silty coarse Sand with much shell fragments from 17.70 to 17.98m. Dark brown and brownish grey, silty medium to coarse SAND with some shell fragments. (FILL) Pocket (20mm) of soft, dark grey silty Clay from 20.19 to 20.21m.
19								VIBROCORING		-12.83	-17.70		
20								VIBROCORING	20.00				

		DRILLHOLE RECORD		HOLE NO. 79									
		CONTRACT GE/93/06		SHEET 3 of 3									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834180.00 N 817843.00		DATE from 21/05/94 to 23/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.87 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
23/05/94			97					VIBROCORING					Fine sandy clayey Silt with a pocket (30mm) of decayed organic matter from 19.43 to 19.67m.
21								VIBROCORING	21.00	-16.83	-20.70		Dark grey clayey silty fine SAND. (FILL)
22								VIBROCORING					Yellowish brown and grey, silty fine to medium SAND. (FILL) Fine sandy clayey Silt from 21.27 to 21.31m, 21.51 to 21.60m, 22.26 to 22.70m, 22.76 to 22.87m and 23.52 to 23.60m. Pockets of soft, dark grey silty Clay from 21.43 to 21.45m, 22.47 to 22.51m and 23.44 to 23.48m.
23								VIBROCORING					
24								VIBROCORING	24.00	-18.93	-23.80		Yellowish brown and greyish brown, silty medium to coarse SAND with some shell fragments. (FILL)
25								VIBROCORING					
26								VIBROCORING		-20.83	-26.70		Dark brown, silty medium to coarse SAND with occasional subangular fine to medium gravel and cobbles. (FILL)
27								VIBROCORING		-21.47	-26.34		Dark brown, silty medium SAND with occasional subrounded medium gravel. (FILL)
28								VIBROCORING	27.00	-22.13	-27.00		Pockets (10-50mm) of soft, dark grey Clay from 26.83 to 26.44m, 26.57 to 26.65m. Slightly clayey silty fine Sand from 26.80 to 27.00m. End of Investigation Hole at 27.00m
29								VIBROCORING					
30								VIBROCORING					

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▭ U78 UNDISTURBED SAMPLE
- ▭ U100 UNDISTURBED SAMPLE
- ▭ MAZIER SAMPLE
- ▭ PISTON SAMPLE
- △ WATER SAMPLE
- ▭ PEZOMETER TIP
- STANDPIPE
- ▭ STANDARD PENETRATION TEST
- ▭ PERMEABILITY TEST
- ▭ IN-SITU VANE SHEAR TEST


LOGGED WCH
 DATE 02/08/94
 CHECKED MC mc
 DATE 03/08/94


REMARKS


- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▭ U78 UNDISTURBED SAMPLE
- ▭ U100 UNDISTURBED SAMPLE
- ▭ MAZIER SAMPLE
- ▭ PISTON SAMPLE
- △ WATER SAMPLE
- ▭ PEZOMETER TIP
- STANDPIPE
- ▭ STANDARD PENETRATION TEST
- ▭ PERMEABILITY TEST
- ▭ IN-SITU VANE SHEAR TEST

LOGGED WCH
 DATE 02/08/94
 CHECKED MC mc
 DATE 03/08/94

REMARKS

		DRILLHOLE RECORD		HOLE NO. 80									
		CONTRACT GE/93/06		SHEET 1 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834148.00 N 817805.00		DATE from 20/05/94 to 21/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.50 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
20/05/94			70						0.00				Dark brownish grey and grey, silty fine to coarse SAND with some subrounded medium to coarse gravel and occasional shell fragments. (FILL)
1								VIBROCORING					Grey subrounded fine to medium Gravel from 2.00 to 2.05m.
2									2.40	2.10			No recovery from 2.10 to 3.00m, assumed to be Sand and Gravel.
3									3.00	1.50	3.00		Dark brown and brownish grey, silty medium to coarse SAND with some subrounded fine to medium gravel. (FILL)
4			60					VIBROCORING		1.10	3.40		Dark grey and brownish grey, silty fine to medium SAND with some shell fragments. (FILL)
5									0.10	4.40			Dark brown, silty medium to coarse SAND with many shell fragments and occasional intact shells (40mm) from 4.40 to 4.50m. (FILL)
6									-0.30	4.80			No recovery from 4.80 to 6.00m, assumed to be Sand.
7									6.00	-1.50	6.00		Brown and brownish grey in places, silty fine to medium SAND with some shell fragments. (FILL)
8								VIBROCORING					
9										9.00			
10								VIBROCORING		10.00			
LOGGED <u>WCH</u> DATE <u>02/08/94</u> CHECKED <u>MC</u> DATE <u>03/08/94</u>													REMARKS

		DRILLHOLE RECORD		HOLE NO. 80									
		CONTRACT GE/93/06		SHEET 2 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834148.00 N 817805.00		DATE from 20/05/94 to 21/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.50 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
20/05/94			97										See sheet 1 of 4
11								VIBROCORING		-8.85	11.15		Dark grey and grey, fine sandy SILT. (FILL)
12									12.00	-7.50	12.00		Band of soft dark bluish grey Clay (70mm thick) from 11.50 to 11.57m.
13													Dark brownish grey becoming greyish brown, silty fine to medium SAND with occasional shell fragments. (FILL)
14													Silty clayey fine Sand layer from 14.35 to 14.55m.
15									15.00				
16								VIBROCORING		-12.15	16.65		Dark grey, clayey silty fine SAND with occasional subangular medium gravel. (FILL)
17													
18									18.00	-13.50	18.00		Dark brown, silty fine to medium SAND with occasional shell fragments. (FILL)
19									-13.95	18.45			Dark greyish brown, silty medium to coarse SAND with some shell fragments and occasional whole shell (40mm) from 18.53 to 18.57m. (FILL)
20									-14.25	18.75			Dark brownish grey and brown in places, silty fine to coarse SAND with some shell fragments. (FILL)
													Silty coarse Sand from 20.50m to 20.60m.
LOGGED <u>WCH</u> DATE <u>02/08/94</u> CHECKED <u>MC</u> DATE <u>03/08/94</u>													REMARKS

										DRILLHOLE RECORD		HOLE NO. 80	
										CONTRACT GE/93/06		SHEET 3 of 4	
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING				CO-ORDINATES E 834148.00 N 817805.00				W.O. No GE/93/06.86 DATE from 20/05/94 to 21/05/94					
MACHINE & No. HD30(S)													
FLUSHING MEDIUM Water				ORIENTATION Vertical				GROUND LEVEL 4.50 mPD					
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
20/05/94			97					VIBROCORING					Subangular medium gravel from 22.95 to 23.05m.
21/05/94			93					VIBROCORING	21.00				Slightly clayey silty fine to medium SAND from 18.75 to 18.85m, 19.40 to 19.55m, 20.10 to 20.50m and 20.60 to 21.00m.
22								VIBROCORING					
23								VIBROCORING	-18.60	-23.10			Yellowish brown, silty fine SAND. (FILL)
24			90					VIBROCORING	-19.16	-23.65			Dark grey mottled brown in places, slightly sandy locally sandy, clayey SILT. (FILL) Pockets (30mm) of soft, brown Clay at 25.00m, 25.16m, 25.48m and 25.53m.
25								VIBROCORING					
26								VIBROCORING					
27			97					VIBROCORING	27.00	-22.50	-27.00		Dark brown, silty fine to medium SAND. (FILL)
28								VIBROCORING	-22.90	-27.30			Dark bluish grey, slightly sandy clayey SILT. (FILL) Band of soft, blackish grey, clayey Silt with many plant remains from 30.40 to 30.70m.
29								VIBROCORING					
30								VIBROCORING	30.00				


- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U78 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- MAZER SAMPLE
- ▭ PISTON SAMPLE
- △ WATER SAMPLE
- ◻ PIZOMETER TIP
- STANDPIPE
- ⊕ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ∇ IN-SITU VANE SHEAR TEST

LOGGED WCH

DATE 02/08/94

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										DRILLHOLE RECORD		HOLE NO. 80	
										CONTRACT GE/93/06		SHEET 4 of 4	
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD VIBROCORING				CO-ORDINATES E 834148.00 N 817805.00				W.O. No GE/93/06.86 DATE from 20/05/94 to 21/05/94					
MACHINE & No. HD30(S)													
FLUSHING MEDIUM Water				ORIENTATION Vertical				GROUND LEVEL 4.50 mPD					
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
21/05/94			97					VIBROCORING					See sheet 3 of 4
31								VIBROCORING	-27.00	-31.50			
32								VIBROCORING					Dark grey becoming light grey mottled brown in places, clayey silty medium to coarse SAND with occasional fine subangular gravel. (ALLUVIUM) (CHEK LAP KOK FORMATION)
33								VIBROCORING	33.00	-28.50	-33.00		End of investigation hole at 33.00m
34								VIBROCORING					
35								VIBROCORING					
36								VIBROCORING					
37								VIBROCORING					
38								VIBROCORING					
39								VIBROCORING					
40								VIBROCORING					

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U78 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- MAZER SAMPLE
- ▭ PISTON SAMPLE
- △ WATER SAMPLE
- ◻ PIZOMETER TIP
- STANDPIPE
- ⊕ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ∇ IN-SITU VANE SHEAR TEST

LOGGED WCH

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VIBRO		DRILLHOLE RECORD		HOLE NO. 81									
		CONTRACT GE/93/06		SHEET 1 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834115.00 N 817767.00		DATE from 17/05/94 to 20/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.55 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
17/05/94			67						0.00				Grey and brownish grey in places, silty fine to coarse SAND with some shell fragments and subangular fine to medium gravel. (FILL)
1								VIBROCORING					No recovery from 2.01 to 3.00m, assumed to be Sand.
2									2.54	2.01			
3			57					VIBROCORING	3.00	1.55	3.00		Yellowish brown and dark brown, slightly clayey silty fine to coarse SAND with occasional shell fragments. (FILL)
4									0.92	3.63			Dark brown, peaty silty fine Sand from 3.35 to 3.53m.
5									-0.15	4.70			Grey, yellowish brown and brown in places, silty fine to medium SAND with occasional subangular coarse gravel. (FILL)
6			70					VIBROCORING	6.00	-1.45	0.00		Blackish grey, peaty silty fine to medium Sand with occasional subangular fine gravel from 3.70 to 4.10m.
7									-1.66	6.10			Brown silty coarse Sand from 4.30 to 4.37m, 4.43 to 4.46m and 4.53 to 4.55m.
8								VIBROCORING					No recovery from 4.70 to 6.00m, assumed to be Sand.
9			97						-3.55	8.10			Brownish grey silty fine to coarse SAND with some subangular fine to coarse gravel and shell fragments. (FILL)
10													Subangular coarse Gravel and Cobbles from 7.70 to 8.10m.
													Silty fine to medium Sand from 6.10 to 6.40m.
									9.00	-4.45	9.00		Silty medium to coarse Sand with many shell fragments with angular fine to medium gravel from 9.55 to 11.00m.
								VIBROCORING					No recovery from 8.10 to 9.00m, assumed to be Sand.

VIBRO		DRILLHOLE RECORD		HOLE NO. 81									
		CONTRACT GE/93/06		SHEET 2 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834115.00 N 817767.00		DATE from 17/05/94 to 20/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.55 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
17/05/94			97										See sheet 1 of 3
11								VIBROCORING		-6.45	-11.00		Grey, reddish brown and black in places, clayey silty fine to coarse SAND with subangular fine to medium gravel. (FILL)
12									12.00	-7.45	12.00		Dark grey fine sandy silty Clay from 11.80 to 11.93m.
13								VIBROCORING		-7.85	12.40		Pockets (5-30mm) of silty Clay from 12.00 to 12.40m.
14										-9.05	13.60		Decayed organic matter from 11.62 to 11.65m. Brownish grey, silty medium to coarse SAND with some shell fragments and occasional pockets (10-40mm) of grey Clay. (FILL)
15										-8.65	14.10		Angular medium to coarse gravel from 13.30 to 13.62m.
16			97					VIBROCORING	16.00	-10.45	15.00		Dark grey, slightly clayey silty fine to medium SAND with occasional shell fragments. (FILL)
17													No recovery from 14.10 to 15.00m, assumed to be Sand with cobbles.
18								VIBROCORING		-12.20	16.75		Brownish grey silty medium to coarse SAND with many shell fragments and occasional subrounded cobbles. (FILL)
19													Dark grey, locally clayey silty fine to medium SAND with occasional subangular medium gravel and a cobble. (FILL)
20			97					VIBROCORING	18.00	-13.45	18.00		Brownish grey, dark grey in places, silty medium to coarse SAND with much shell fragments and occasional subrounded medium to coarse gravel and cobbles. (FILL)
													Dark grey, sandy silty Clay from 20.20 to 20.67m.
													Clayey silty fine to medium Sand from 20.40 to 21.00m.

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SFT LINER SAMPLE
- ▨ U75 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊕ PISTON SAMPLE
- △ WATER SAMPLE
- ⊠ PIEZOMETER TIP
- ⊙ STANDPIPE
- ⊕ STANDARD PENETRATION TEST
- ⊖ PERMEABILITY TEST
- ⊕ IN-SITU VANE SHEAR TEST

LOGGED WCH

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REMARKS

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SFT LINER SAMPLE
- ▨ U75 UNDISTURBED SAMPLE
- ▩ U100 UNDISTURBED SAMPLE
- ⊖ MAZIER SAMPLE
- ⊕ PISTON SAMPLE
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		DRILLHOLE RECORD		HOLE NO. 81									
		CONTRACT GE/93/06		SHEET 3 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834115.00 N 817767.00		DATE from 17/05/94 to 20/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.55 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
17/05/94			97					VIBROCORING					See sheet 2 of 3
21			97					VIBROCORING	21.00				
22								VIBROCORING		-18.10	22.65		
23								VIBROCORING					Grey and brownish gray, silty fine to coarse SAND with some shell fragments and occasional angular fine to medium gravel. (FILL)
24			97					VIBROCORING	24.00				Dark grey and brown, fine to medium sandy silty Clay from 23.35 to 23.80m and 26.30 to 26.65m. Dark grey Clay from 26.80 to 27.00m
25								VIBROCORING					
26								VIBROCORING					
27			90					VIBROCORING	27.00	-22.45	-27.00		Grayish brown, silty fine to coarse SAND with occasional shell fragments. (FILL)
20/05/94								VIBROCORING					Pockets (10-30mm) of soft, dark grey Clay from 27.75 to 27.88m and 28.90 to 28.93m.
28								VIBROCORING					
29								VIBROCORING		-24.40	28.95		Yellowish brown becoming light grey, silty medium to coarse SAND. (ALLUVIUM) (CHEK LAP KOK FORMATION)
30								VIBROCORING		-25.45	30.00		

-  SMALL DISTURBED SAMPLE
-  LARGE DISTURBED SAMPLE
-  SPT LINER SAMPLE
-  U78 UNDISTURBED SAMPLE
-  U100 UNDISTURBED SAMPLE
-  MAZIER SAMPLE
-  PISTON SAMPLE
-  WATER SAMPLE
-  PIEZOMETER TIP
-  STANDPIPE
-  STANDARD PENETRATION TEST
-  PERMEABILITY TEST
-  IN-SITU VANE SHEAR TEST

LOGGED WCH
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		DRILLHOLE RECORD		HOLE NO. 81									
		CONTRACT GE/93/06		SHEET 4 of 4									
PROJECT West Kowloon Reclamation Southern Area Roads.													
METHOD Vibrocoring		CO-ORDINATES		W.O. No GE/93/06.86									
MACHINE & No. HD30(S)		E 834115.00 N 817767.00		DATE from 17/05/94 to 20/05/94									
FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL 4.55 mPD									
Drilling Progress	Casing size	Water level (m) Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
													End of Investigation Hole at 30.00m.
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													

-  SMALL DISTURBED SAMPLE
-  LARGE DISTURBED SAMPLE
-  SPT LINER SAMPLE
-  U78 UNDISTURBED SAMPLE
-  U100 UNDISTURBED SAMPLE
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LOGGED WCH
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