





BOTTOM OF HOLE

DRILL LOG				HOLE NO. : B - TOG - 3				SHEET NO. 1 OF 1										
PROJECT		THE STUDY FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 15.00 M		ELEVATION : + 5.338 M										
SITE		PILOLODAA VILLAGE		COORDINATE		X : 123° 01.767'		INCLINATION : 90°		DRILLING : YBM YSO - 01								
AVERAGE CORE RECOVERY : 100%				Y : 00° 32.867'				DRILLED : TALLI		LOGGED : DWI HARSO								
GROUND WATER LEVEL : 2.46 M				DATE : JULY 10 TO JULY 11'2002				DIA. MAX : 73 MM		CHECKED : Ir. DAVE M								
DATE	DEPTH (M)	ELEVATION (M)	COLOUM SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	CLASSIFICATION		STANDARD PENETRATION TEST		GROUND WATER LEVEL	CORE BARREL BIT CASING	WATER SPRING OBSERVABLE WATER LOSS
												HARDNESS	CONDITION OF JOINT PLANNE	(N - Value)				
JULY 10'2002	0.40	+4.938			BROWN		(0.00 - 0.40) m Top soil, SILT, brown, non plastic, contain of roots plant.											
	2.20	+3.138					(0.40 - 2.20) m Clayey SILT, brown, soft, non plas- tic.											
	6.40	-1.062			GREY		(2.20 - 6.40) m Clayey SAND, grey, fine sand, loose contain shell.											
	8.80	-3.462			BLACK		(6.40 - 8.80) m CLAY, black, soft, low plastic, con- tain of organic.		100									
	9.50	-4.162			GREY		(8.80 - 9.50) m Clayey SAND, grey, fine sand, con- tain shell.											
JULY 11'2002	13.50	-8.162			GREY		(9.50 - 13.50) m CLAY, grey to dark grey, soft, low plastic, DEPTH (11.10 - 11.50) m Clayey SAND, grey, fine sand, con- tain shell.											
	15.00	-9.662					(13.50 - 15.00) m Clayey SAND, grey, fine sand, loose contain shell.											

BOTTOM OF HOLE

DRILL LOG										HOLE NO. : B - TOG - 4				SHEET NO. 1 OF 1						
PROJECT		THE STUDY FLOOD CONTROL AND WATER MANAGEMENT IN L B B						DEPTH : 15.00 M		ELEVATION : + 5.514 M										
SITE		TUALANGO VILLAGE		COORDINATE		X : 123° 01.775'		INCLINATION : 90°		DRILLING : KOKEN OE - 2L										
AVERAGE CORE RECOVERY: 100%				Y : 00° 32.861'				DRILLED : MANNA		LOGGED : DWI HARSO										
GROUND WATER LEVEL : 2.50 M				DATE : JULY 10 TO JULY 11'2002				DIA. MAX : 73 MM		CHECKED : Ir. DAVE M										
DATE	DEPTH (M)	ELEVATION (M)	COLOUR SECTION	SOIL, ROCK TYPE	COLOR	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	HARDNESS	CORE LENGTH AND SHARP	CONDITION OF JOINT PLANE	CLASSIFICATION OF ROCK MASS	DEPTH (M)	BLOW (CM)	STANDARD PENETRATION TEST (N - Value)	CORE BARREL BIT CASING	GROUND WATER LEVEL	WATER SPRING OBSERVABLE WATER LOSS
JULY 10'2002	0.50	+5.014			BROWN	(0.00 - 0.50) m Top soil, SILT, brown, stiff, contain of roots plant.														
	3.20	+2.314			GREY	(0.50 - 3.20) m Clayey SILT, brown, soft, medium stiff, low plasticity, moist.														
	4.40	+1.114			GREY TO DARK GREY	(4.40 - 10.60) m Silty CLAY, grey - dark grey, soft to stiff, low plasticity, contain shell.														
JULY 11'2002	10.60	-5.086			GREY	Depth (7.30 - 7.50) m (8.80 - 9.00) m CLAY, black, soft, contain of organic.		100												
	15.00	-9.486			GREY	(10.60 - 15.00) m Clayey SAND, grey, fine sand, loose, contain shell.														
BOTTOM OF HOLE																				

DRILL LOG				HOLE NO. : B - TOG - 5				SHEET NO. 1 OF 1							
PROJECT		THE STUDY FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 15.00 M		ELEVATION : + 5.630 M							
SITE		TUALANGO VILLAGE		COORDINATE		X : 123° 01.804'		INCLINATION : 90°		DRILLING : KOKEN OE - 2L					
AVERAGE CORE RECOVERY: 100%				Y : 00° 32.846'				DRILLED : MANNA		LOGGED : DWI HARSO					
GROUND WATER LEVEL : 2.50 M				DATE : JULY 12 TO JULY 13'2002				DIA. MAX : 73 MM		CHECKED : Ir. DAVE M					
DATE	DEPTH (M)	ELEVATION (M)	COLOUM SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	CLASSIFICATION		STANDARD PENETRATION TEST (N - Value)	GROUND WATER LEVEL
												HARDNESS	ELEMENTS		
COASTAL DEPOSIT															
JULY 12'2002															
JULY 13'2002															
BOTTOM OF HOLE															
	1.00	+4.630			BROWN		(0.00 - 1.00) m Top soil, Clayey SILT, brown, soft, contain roots plant.								
	2.90	+2.730			BROWN		(1.00 - 2.90) m Clayey SAND, brown, fine to coarse sand, loose.								
	5.50	+0.130			BROWN		(2.90 - 5.50) m CLAY, grey, stiff, low plastic, moist								
	6.80	-1.170			GREY		(5.50 - 6.80) m Clayey SAND, grey, fine sand, medium dense, mois.								
	8.90	3.270			GREY		(6.80 - 8.90) m CLAY, grey, medium stiff, low plastic, moist.								
	9.10	3.470			B		(8.90 - 9.10) m CLAY, black, soft, contain organic								
	15.00	9.370			GREY		(9.10 - 15.00) m Clayey SAND, grey, fine to coarse sand, loose, contain shell.								

DRILL LOG				HOLE NO. : B - TOG - 6				SHEET NO. 1 OF 2										
PROJECT		THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 40.00 M		ELEVATION : + 5.687 M										
SITE		TUALANGO VILLAGE		COORDINATE		X : 123° 01.722'		INCLINATION : 90°		DRILLING : KOKEN OE - 2L								
AVERAGE CORE RECOVERY : 100%				Y : 00° 32.896'				DRILLED : MANNA		LOGGED : DWI HARSO								
GROUND WATER LEVEL : 2.29 M				DATE : JULY 15 TO JULY 20, 2002				DIA. MAX : 73 MM		CHECKED : Ir. DAVE M								
DATE	DEPTH (M)	ELEVATION (M)	COLOUR SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	CLASSIFICATION		STANDARD PENETRATION TEST		GROUND WATER LEVEL	CORE BARREL BIT CASING	WATER SPRING OBSERVABLE WATER LOSS
												HARDNESS	CONDITION OF JOINT PLANE	DEPTH (M)	(N - Value)			
JULY 15/2002	0.50	+5.187			BROWN		(0.00 - 0.50) m Top soil, Silty CLAY, brown, low plastic, contain of roots plant.	100										
	2.60	+3.087			LIGHT GREY		(0.50 - 2.60) m Clayey SAND, greyish brown, medium dense, fine sand.											
	7.50	-2.113			BLK		(2.60 - 7.80) m CLAY, light grey, stiff, low plastic.											
	8.60	-2.913					(7.50 - 8.60) m CLAY, black, low plastic, contain organic.											
JULY 16/2002							(8.60 - 23.50) m Clayey SAND, grey, loose to medium dense, fine to coarse sand, contain shell.	100										
JULY 17/2002	23.50	-17.81					(23.50 - 24.20) m Gravelly SAND, grey, coarse sand, component gravel shell.	100										
	24.20	-18.51					(24.20 - 24.80) m Clayey SAND, grey, fine sand.											
	24.80	-19.11					(24.80 - 25.40) m Gravelly SAND, grey, coarse sand, dense, component gravel shell.											
	25.40	-19.71					(25.40 - 26.80) m Sandy CLAY, grey, soft, fine sand.											
JULY 18/02	26.80	-21.11						100										

BOTTOM OF HOLE

DRILL LOG		HOLE NO. : B - TOG - 6				SHEET NO. 2 OF 2															
PROJECT		THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 40.00 M															
SITE		TUALANGO VILLAGE		COORDINATE		ELEVATION : + 5.687 M															
AVERAGE CORE RECOVERY: 100%		X : 123° 01.722'		INCLINATION: 90°		DRILLING : KOKEN OE - 2L															
GROUND WATER LEVEL : 2.29 M		Y : 00° 232.896'		DRILLED : MANNA		LOGGED : DWI HARSO															
DATE : JULY 15 TO JULY 20, 2002		DIA. MAX : 73 MM		CHECKED : Ir. DAVE. M																	
DATE	DEPTH (M)	ELEVATION (M)	COLOUM SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	HARDNESS	CORE LENGTH AND SHARP	CONDITION OF JOINT PLANE	CLASSIFICATION OF ROCK MASS	DEPTH (M)	BLOW (CM)	STANDARD PENETRATION TEST (N - Value)	CORE BARREL BIT, CASING	GROUND WATER LEVEL	WATER SPRING OBSERVABLE WATER LOSS
JULY 20, 2002	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	39.40 33.72 35.32			GREY		(26.80 - 39.40) m CLAY, grey, low plastic, stiff. DEPTH (36.80 - 37.80) m Clay, black, contain organic and small sand. (39.40 - 40.00) m Gravelly CLAY, grey, low plastic, firm, component gravel andesite, sand stone, limestone, Φ 4 cm.	100								0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	11 18 11 19		SINGLE TUBE CORE BARREL Φ 73 MM, CASING Φ 89	WATER LEVEL WATER LEVEL BOTTOM OF HOLE	
							BOTTOM OF HOLE														

DRILL LOG		HOLE NO. : B - TOG - 7				SHEET NO. 1 OF 1														
PROJECT		THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 20.00 M														
SITE		TUALANGO VILLAGE		COORDINATE X : 123° 01.660'		ELEVATION : + 5.264 M														
AVERAGE CORE RECOVERY: 100%		DATE : JULY 24 TO JULY 26, 2002		INCLINATION : 90°		DRILLING : KOKEN OE - 2L														
GROUND WATER LEVEL : 2.00 M				DRILLED : MANNA		LOGGED : DWI HARSO														
				DIA. MAX : 73 MM		CHECKED : Ir. DAVE M														
DATE	DEPTH (M)	ELEVATION (M)	COLOUM SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	HARDNESS	CORE LENGTH AND SHARP	CONDITION OF JOINT PLANE	CLASSIFICATION OF ROCK MASS	DEPTH (M)	BLOW (CM)	STANDARD PENETRATION TEST (N - Value)	GROUND WATER LEVEL	WATER SPRING
July 24, 2002	0.50	4.764			BROWN		(0.00 - 0.50) m Top soil, SILT, brown, contain of roots plant.									1				
	2.00	3.264					(0.50 - 2.00) m Sandy CLAY, brown, medium stiff, low plastic, fine sand.									2				
	3.50	1.764					(2.00 - 3.50) m CLAY, grey, firm, low pasticity.									3				
	6.80	-1.536					(3.50 - 6.80) m Clay SAND, grey, coarse sand, medium dense.									4				
July 25, 2002	10.80	-5.536			GREY		(6.80 - 10.80) m CLAY, grey, medium stiff to stiff low plastic, contain shell.	100								5				
	12.40	-7.136					(10.80 - 12.40) m Clay SAND, grey, fine sand, stiff contain shell.									6				
	16.30	-11.04					(12.40 - 16.30) m CLAY, grey, soft, low plastic, countain shell and small fine sand.									7				
July 26, 2002	20.00	-14.74					(16.30 - 20.00) m Clay SAND, grey, fine to coarse sand, dense, countain shell.									8				
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DRILL LOG		HOLE NO. : B - TOG - 8				SHEET NO. 1 OF 1													
PROJECT		THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN L B B				DEPTH : 30.00 M													
SITE		PILOLODAA VILLAGE		COORDINATE		ELEVATION : + 6.131 M													
AVERAGE CORE RECOVERY: 100%		X : 123° 01.758'		Y : 00° 32.828'		INCLINATION : 90°													
GROUND WATER LEVEL : 2.84 M		DATE : JULY 27 TO JULY 30, 2002		DIA. MAX : 73 MM		LOGGED : DWI HARSO													
						CHECKED : Ir.DAVE. M.													
DATE	DEPTH (M)	ELEVATION (M)	COLOUM SECTION	SOIL, ROCK TYPE	COLOR	DIP OF FAULT, JOINT, BEDDING GEOLOGICAL BOUNDARY	DESCRIPTION	CORE RECOVERY (%)	R. Q. D. (%)	SHEARING BY FAULT	WEATHERING CONDITION	CLASSIFICATION		STANDARD PENETRATION TEST		GROUND WATER LEVEL			
												HARDNESS	CONDITION OF JOINT PLANE	(N - Value)			WATER LEVEL		
July 27, 2002	0.50	+ 5.631		BROWN			(0.00 - 0.50) m Top soil, Clayey SILT, brown , contain of roots plant.	100											
	3.20	+ 5.631			(0.50 - 3.20) m Silty CLAY, brown, medium stiff, low plasticity, soft, fine sand.														
	4.60	+ 1.531			(3.20 - 4.60) m CLAY, grey, firm, stiff, firm, low plasticity.														
	6.70	0.589		COASTAL DEPOSITE			(4.60 - 6.70) m Silty SAND, grey, fine sand, med- um dense.												
	10.50	4.389			(6.70 - 10.50) m Gravelly Clayey SAND, grey, fine to coarse sand, component of gravel limestone coral and shell medium dense.														
	11.10	4.969			(10.50 - 11.10) m Clayey SAND, grey, fine sand, countain shell.														
	16.10	9.97			(11.10 - 16.10) m Sandy CLAY, grey, soft, medium plasticity, fine sand, countain shell.														
	17.80	11.67			(16.10 - 17.80) m Silty CLAY, grey, low plasticity firm.														
	20.30	14.17			(17.80 - 20.30) m Gravelly Clayey SAND, grey, fine - medium sand, very dense component of gravel shell.														
	21.40				(20.30 - 21.40) m CLAY, grey, medium stiff, low plasticity.														
22.30	16.17		(21.40 - 22.30) m Clayey SAND, grey, coarse sand, medium dense, countain shell and gravel coral limestone																
25.50	19.37		(22.30 - 25.50) m Sandy Gravelly CLAY, whitish grey, stiff, low plasticity, fine sand, component gravel coral limestone, diameter 8 cm, coun- tain shell.	WHITISH GREY			(25.50 - 30.00) m Gravelly Sandy CLAY, whitish grey, stiff- very stiff, low plasticity, medium coarse sand countain shell, component gra- vel coral limestone, Ø 5 cm.												
30.00	23.87																		
BOTTOM OF HOLE																			

