

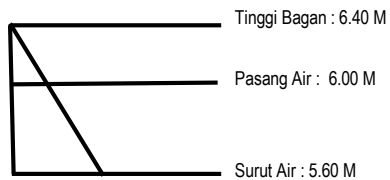
[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 1		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9412.784																	
Date		4 - 6 Juni 2012				Y : 3429.123																	
Surface Ele		-3.520				Water elevation																	
Bor Master		Yayan				Total Depth		40.00 M															
Depth	Date	Sample	Log	Soil or Rock Description		S P T Blows/cm			NSPT	N Graph X 10													
				Type, Color, Description		15	30	45		1	2	3	4	5	6	7	8	9	10				
31	6/6/2012	X		Pasir kuarsa sedang, abu - abu muda keputihan, padat		12/15	16/15	19/15	35														
32		X																					
33		X				12/15	18/15	21/15	39														
34		X																					
35		X				15/15	24/15	28/15	52														
36		X																					
37		X				18/15	29/15	33/15	62														
38		X																					
39		X				20/15	31/15	38/15	69														
40		X																					
Remarks						22/15	33/15	60/12	103														
Remarks disturbed Sample Undisturbed Sample S P T						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung								
						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa								
										-	Lanau			c	Kulit Kerang								
						8	30 - 50 Dense >50 ^ery Loose			>	Batu			o	Karang								



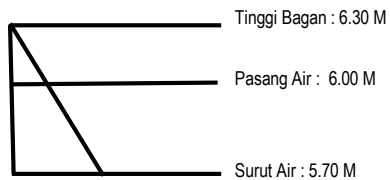
[illegible]

SUBSURFACE EXPLORATION LOG										No. : BH - 2		Remarks													
Project		PLTU KETAPANG																							
Location		SUKABANGUN DALAM						X : 9430.742																	
Date		30 Mei - 2 Juni 2012						Y : 3396.140																	
Surface Ele		-3.632						Water elevation																	
Bor Master		Yayan						Total Depth		40.00 M															
Depth	Date	Sample	Log	Soil or Rock Description		S P T Blows/cm			NSPT	N Graph X 10															
				Type, Color, Description		15	30	45		1	2	3	4	5	6	7	8	9	10						
31	6/2/2012	X		Pasir kuarsa kasar coklat keabu-abuan padat		11/15	15/15	21/15	36																
32		X																							
33		X				11/15	17/15	20/15	37																
34		X																							
35		X				14/15	27/15	29/15	56																
36		X																							
37		X				17/15	31/15	34/15	65																
38		X																							
39		X				19/15	33/15	36	69																
40		X																							
						23/15	30/15	60/10	108																
Remarks						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung										
disturbed Sample						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa										
S P T						8	30 - 50 Dense >50 ^ery Loose			-	Lanau			c	Kulit Kerang										
										>	Batu			o	Karang										



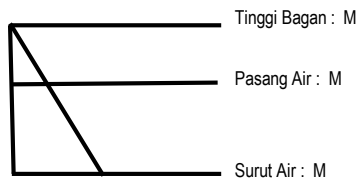
[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 3		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9457.735																	
Date		24 - 28 Mei 2012				Y : 3347.104																	
Surface Ele		-3.875				Water elevation																	
Bor Master		Yayan				Total Depth														40.00 M			
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
31	28/5/2012	X		Pasir kuarsa lepas pasir sedang sampai dengan kasar putih keabu-abuan padat	12/15	16/15	23/15	39															
32		X																					
33		X			15/15	19/15	26/15	55															
34		X																					
35		X			15/15	29/15	30/15	59															
36		X																					
37		X			17/15	29/15	35/15	64															
38		X																					
39		X			21/15	32/15	60	92															
40		X																					
								21/15	60/7		128												
Remarks					N	N Sand & Sit < 4 ^ery Loose			#	Top soil		I Lempung											
disturbed Sample Undisturbed Sample					4	4 - 10 Loose 10 - 30 Medium			::	Pasir		^ Tuffa											
S P T					8	30 - 50 Dense >50 ^ery Loose			-	Lanau		c Kulit Kerang											
									>	Batu		o Karang											

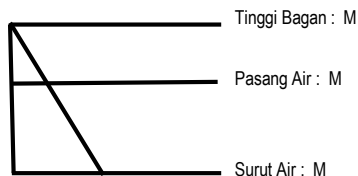


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SUBSURFACE EXPLORATION LOG										No. : BH - 4		Remarks													
Project		PLTU KETAPANG																							
Location		SUKABANGUN DALAM						X : 9341.596																	
Date		18 - 22 Mei 2012						Y : 3317.289																	
Surface Ele		1.130						Water elevation		0.50 m															
Bor Master		Yayan						Total Depth		40.00 M															
Depth	Date	Sample	Log	Soil or Rock Description		S P T Blows/cm			NSPT	N Graph X 10															
				Type, Color, Description		15	30	45		1	2	3	4	5	6	7	8	9	10						
31	22/05/12	X		Pasir halus sampai dengan sedang, kasar abu-abu keputihan padat		8/15	11/15	14/15	25																
32		X																							
33		X				10/15	17/15	20/15	37																
34		X																							
35		X				12/15	17/15	23/15	40																
36		X																							
37		X				15/15	26/15	35/15	61																
38		X																							
39		X				20/15	26/15	60/10	103																
40		X																							
						25/15	41/12	60/8	131																
Remarks						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung										
disturbed Sample						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa										
SPT						8	30 - 50 Dense >50 ^ery Loose			-	Lanau			c	Kulit Kerang										
										>	Batu			o	Karang										



SUBSURFACE EXPLORATION LOG						No. : BH - 5		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9210.780																	
Date		07 - 11 Juni 2012				Y : 3072.366																	
Surface Ele		0.927				Water elevation																	
Bor Master		Yayan				Total Depth														40.00 M			
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
30	09/06/12			Pasir kuarsa, sedang sampai dengan kasar abu-abu muda keputihan agak padat																			
31					10/15	12/15	13/15	25															
32																							
33	10/06/12				10/15	11/15	12/15	23															
34																							
35					8/15	9/15	12/15	21															
36	11/06/12			Pasir kuarsa kasar abu-abu muda keputihan padat																			
37					10/15	11/15	13/15	24															
38																							
39	11/06/12				13/15	20/15	25/15	45															
40																							
					20/15	27/15	34/15	61															
Remarks					N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung									
disturbed Sample					4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa									
Undisturbed Sample									-	Lanau			c	Kulit Kerang									
S P T					8	30 - 50 Dense >50 ^ery Loose			>	Batu			o	Karang									



SUBSURFACE EXPLORATION LOG						No. : BH - 6		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9223.083																	
Date		12 - 17 Juni 2012				Y : 3011.162																	
Surface Ele		0.608				Water elevation																	
Bor Master		Yayan				Total Depth														55.00 M			
Depth	Date	Sample	Log	Soil or Rock Description	SPT Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
31	14/06/12			Pasir kuarsa kasar sampai dengan sedang abu-abu muda keputihan, agak padat																			
32																							
33					6/15	10/15	10/15	20															
34																							
35	15/06/12				Pasir kuarsa kasar sampai dengan sedang abu-abu muda keputihan, agak padat	8/15	10/15	11/15	21														
36																							
37						11/15	14/15	15/15	29														
38																							
39	15/06/12					Pasir kuarsa kasar sampai dengan sedang abu-abu muda keputihan, agak padat	12/15	14/15	20/15	34													
40																							
41							15/15	19/15	21/15	40													
42																							
43	16/06/12			Pasir kuarsa abu-abu muda keputihan pasir kasar padat			20/15	21/15	27/15	48													
44																							
45							11/15	19/15	21/15	40													
46																							
47	16/06/12				Pasir kuarsa abu-abu muda keputihan pasir kasar padat		14/15	22/15	24/15	46													
48																							
49							13/15	23/15	25/15	48													
50																							
51	17/06/12					Pasir kuarsa abu-abu muda keputihan pasir kasar padat	16/15	25/15	27/15	52													
52																							
53							18/15	23/15	30/15	53													
54																							
55							20/15	28/15	28/15	56													

Remarks	N	N Sand & Sit < 4 ^ery Loose	#	Top soil	l	Lempung
disturbed Sample	4	4 - 10 Loose 10 - 30 Medium	::	Pasir	^	Tuffa
SPT	8	30 - 50 Dense >50 ^ery Loose	-	Lanau	c	Kulit Kerang
			>	Batu	o	Karang

Remarks

disturbed Sample

Undisturbed Sample

SPT

N

4

8

N Sand & Sit < 4 ^ery Loose

4 - 10 Loose 10 - 30 Medium

30 - 50 Dense >50 ^ery Loose

Top soil

:: Pasir

- Lanau

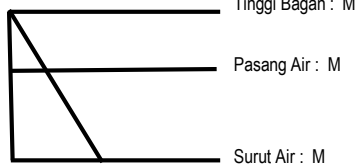
> Batu

l Lempung

^ Tuffa

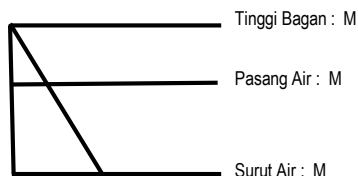
c Kulit Kerang

o Karang



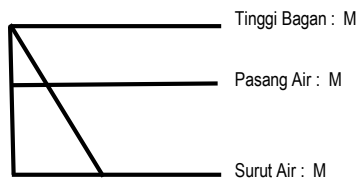
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SUBSURFACE EXPLORATION LOG						No. : BH - 7		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9249.576																	
Date		23 - 25 Juni 2012				Y : 2983.638																	
Surface Ele		0.772				Water elevation																	
Bor Master		Yayan				Total Depth														40.00 M			
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
30	25/06/12																						
31					9/15	13/15	17/15	30															
32																							
33					9/15	14/15	19/15	33															
34																							
35					10/15	15/15	24/15	39															
36																							
37					13/15	20/15	28/15	48															
38																							
39					19/15	25/15	32/15	57															
40																							
						Pasir kuarsa sedang sampai dengan kasar abu-abu muda keputihan padat	22/15	29/15	37/15	66													
Remarks					N	N Sand & Sit < 4 ^ery Loose			#	Top soil		I Lempung											
 disturbed Sample					4	4 - 10 Loose 10 - 30 Medium			::	Pasir		^ Tuffa											
 Undisturbed Sample					8	30 - 50 Dense >50 ^ery Loose			-	Lanau		c Kulit Kerang											
 S P T									>	Batu		o Karang											



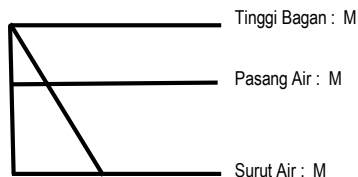
[illegible]

SUBSURFACE EXPLORATION LOG										No. : BH - 8		Remarks																	
Project		PLTU KETAPANG																											
Location		SUKABANGUN DALAM						X : 9255.443																					
Date		18 - 21 Juni 2012						Y : 2964.691																					
Surface Ele		1.037						Water elevation																					
Bor Master		Yayan						Total Depth		40.00 M																			
Depth	Date	Sample	Log	Soil or Rock Description		S P T Blows/cm			NSPT	N Graph X 10																			
				Type, Color, Description		15	30	45		1	2	3	4	5	6	7	8	9	10										
31	21/06/12			Pasir kuarsa sedang sampai dengan halus abu-abu muda kecoklatan padat																									
32																													
33						10/15	15/15	17/15	32																				
34																													
35						11/15	18/15	25/15	43																				
36																													
37						16/15	24/15	29/15	53																				
38																													
39						19/15	27/15	31/15	58																				
40																													
						20/15	31/15	33/15	64																				
Remarks						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung														
disturbed Sample						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa														
Undisturbed Sample										-	Lanau			c	Kulit Kerang														
S P T						8	30 - 50 Dense >50 ^ery Loose			>	Batu			o	Karang														



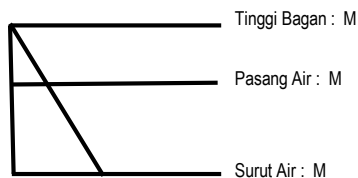
[illegible]

SUBSURFACE EXPLORATION LOG										No. : BH - 9		Remarks													
Project		PLTU KETAPANG																							
Location		SUKABANGUN DALAM						X : 9228.000																	
Date		8 - 12 Juni 2012						Y : 2942.205																	
Surface Ele		1.224						Water elevation																	
Bor Master		Sarip Hidayat						Total Depth				40.00 M													
Depth	Date	Sample	Log	Soil or Rock Description		S P T Blows/cm			NSPT	N Graph X 10															
				Type, Color, Description		15	30	45		1	2	3	4	5	6	7	8	9	10						
32	11/06/12																								
33						9/15	11/15	14/15	25																
34																									
35	6/12/2012			Pasir kuarsa sedang sampai dengan kasar, abu - abu muda keputihan, padat		12/15	14/15	19/15	33																
36																									
37						16/15	22/15	25/15	47																
38																									
39						21/15	29/15	33/15	62																
40																									
						19/15	25/15	37/15	62																
Remarks						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I Lempung											
disturbed Sample						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^ Tuffa											
Undisturbed Sample										-	Lanau			c Kulit Kerang											
S P T						8	30 - 50 Dense >50 ^ery Loose			>	Batu			o Karang											



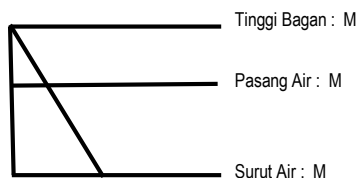
[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 10		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9250.920																	
Date		13 - 17 Juni 2012				Y : 2947.166																	
Surface Ele		1.070				Water elevation																	
Bor Master		Sarip Hidayat				Total Depth		40.00 M															
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
31	16/06/12			Pasir kuarsa kasar sampai dengan sedang abu-abu muda keputihan, padat																			
32																							
33					10/15	13/15	13/15	26															
34																							
35					12/15	14/15	16/15	30															
36	17/06/2012																						
37					19/15	26/15	28/15	54															
38																							
39					17/15	29/15	32/15	61															
40																							
					20/15	31/15	35/15	66															
Remarks					N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I	Lempung									
disturbed Sample Undisturbed Sample					4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^	Tuffa									
SPT					8	30 - 50 Dense >50 ^ery Loose			-	Lanau			c	Kulit Kerang									
									>	Batu			o	Karang									



[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 11		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9240.471																	
Date		30 Mei - 03 Juni 2012				Y : 2909.996																	
Surface Ele		1.018				Water elevation																	
Bor Master		Sarip Hidayat				Total Depth		40.00 M															
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
31	02/06/12	X		Pasir kuarsa sedang sampai dengan kasar abu-abu muda keputihan agak padat	9/15	13/15	17/15	30															
32		X																					
33		X			7/15	11/15	15/15	26															
34		X																					
35	6/3/2012	X		Pasir kuarsa kasar abu-abu muda keputihan padat	11/15	15/15	16/15	31															
36		X																					
37		X			18/15	25/15	30/15	55															
38		X																					
39		X			20/15	32/15	37/15	69															
40		X																					
					24/15	35/12	41/15	76															
Remarks					N	N Sand & Sit < 4 ^ery Loose			#	Top soil			l Lempung										
disturbed Sample					4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^ Tuffa										
S P T					8	30 - 50 Dense >50 ^ery Loose			-	Lanau			c Kulit Kerang										
									>	Batu			o Karang										



[illegible]

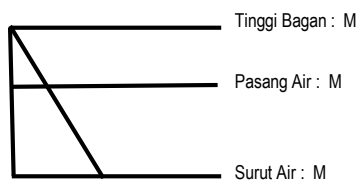
Tinggi Bagian : M

Pasang Air : M

Surut Air : M

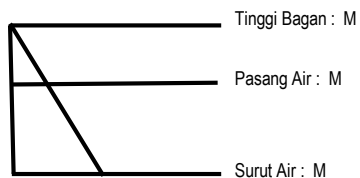
[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 13		Remarks															
Project		PLTU KETAPANG																					
Location		SUKABANGUN DALAM				X : 9281.552																	
Date		18 - 21 Juni 2012				Y : 3035.422																	
Surface Ele		0.725				Water elevation																	
Bor Master		Yayan				Total Depth														45.00 M			
Depth	Date	Sample	Log	Soil or Rock Description	SPT Blows/cm			NSPT	N Graph X 10														
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10					
31	21/06/12			Pasir kuarsa kasar abu-abu muda keputihan sedang																			
32																							
33		X			7/15	10/15	12/15	22															
34																							
35		X			10/15	14/15	16/15	30															
36					Pasir kuarsa kasar sampai dengan sedang ab-abu muda keputihan padat																		
37		X		9/15		12/15	16/15	28															
38																							
39		X		19/15		22/15	26/15	48															
40																							
41		X		20/15		27/15	30/15	57															
42																							
43		X		18/15		29/15	30/15	59															
44																							
45		X		21/15		32/15	36/15	68															
Remarks						N	N Sand & Sit < 4 ^ery Loose			#	Top soil			I Lempung									
disturbed Sample						4	4 - 10 Loose 10 - 30 Medium			::	Pasir			^ Tuffa									
Undisturbed Sample						8	30 - 50 Dense >50 ^ery Loose			-	Lanau			c Kulit Kerang									
SPT										>	Batu			o Karang									



[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 14		Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Location		SUKABANGUN DALAM				X : 9296.831																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Date		18 - 24 Mei 2012				Y : 2916.307																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Bor Master		Sarip Hidayat				Total Depth		40.00 M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Depth	Date	Sample	Log	Soil or Rock Description	S P T Blows/cm			NSPT	N Graph X 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
31	23/05/12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												



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SUBSURFACE EXPLORATION LOG						No. : BH - 15		Remarks														
Project		PLTU KETAPANG																				
Location		SUKABANGUN DALAM				X : 9252.382																
Date		25 - 28 Mei 2012				Y : 2892.346																
Surface Ele		0.967				Water elevation																
Bor Master		Sarip Hidayat				Total Depth		40.00 M														
Depth	Date	Sample	Log	Soil or Rock Description	SPT Blows/cm			NSPT	N Graph X 10													
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10				
30	5/28/2012			Pasir kasar sampai dengan sedang abu-abu muda keputihan agak padat																		
31					5/15	11/15	17/15	28														
32																						
33					8/15	10/15	14/15	24														
34																						
35					10/15	15/15	18/15	33														
36																						
37					16/15	20/15	29/15	49														
38																						
39					22/15	29/15	33/15	62														
40																						
								Pasir halus sampai dengan abu-abu muda keputihan padat	20/15	28/12	35/15	63										

Remarks

disturbed Sample

Undisturbed Sample

X

SPT

N

4

8

N Sand & Sit < 4 ^ery Loose

4 - 10 Loose 10 - 30 Medium

30 - 50 Dense >50 ^ery Loose

Top soil

:: Pasir

- Lanau

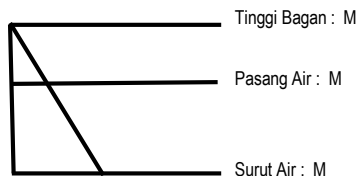
> Batu

l Lempung

^ Tuffa

c Kulit Kerang

o Karang



[illegible]

SUBSURFACE EXPLORATION LOG						No. : BH - 1A		Remarks														
Project		PLTU KETAPANG																				
Location		SUKABANGUN DALAM				X : 9229973																
Date		10 - 13 Juli 2012				Y : 2910755																
Surface Ele		0.698				Water elevation																
Bor Master		Yayan				Total Depth		50.00 M														
Depth	Date	Sample	Log	Soil or Rock Description	SPT Blows/cm			NSPT	N Graph X 10													
				Type, Color, Description	15	30	45		1	2	3	4	5	6	7	8	9	10				
31	12/07/12	X		Pasir kuarsa pasir sedang sampai dengan kasar abu-abu muda keputihan agak padat	8/15	14/15	15/15	29														
32																						
33		X				8/15	12/15	15/15	27													
34																						
35		X																				
36																						
37		X																				
38	13/07/12	X		Pasir kuarsa pasir kasar abu-abu muda keputihan padat	15/15	19/15	25/15	44														
39																						
40		X				18/15	2/15	28/15	30													
41																						
42		X				22/15	30/15	32/15	62													
43																						
44		X				17/15	28/15	32/15	60													
45																						
46		X				20/15	31/15	34/15	65													
47																						
48		X				22/15	29/15	3/15	32													
49																						
50		X				23/15	32/15	33/15	65													

Remarks

disturbed Sample

Undisturbed Sample

X

SPT

N Sand & Sit < 4 ^ery Loose

4 - 10 Loose 10 - 30 Medium

8 30 - 50 Dense >50 ^ery Loose

Top soil

:: Pasir

- Lanau

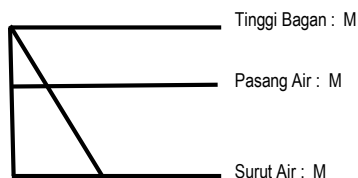
> Batu

l Lempung

^ Tuffa

c Kulit Kerang

o Karang



[illegible]

Surut Air : M