

C.2 Drilling Log

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES

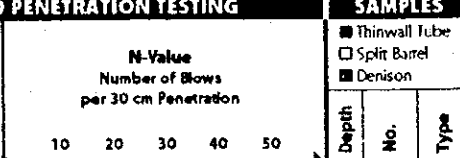
DRILL LOG

Bore Hole No.		Elevation		Date																		
BBG-1		+ 50.491 m		05.07.94 to 07.07.94																		
Location		Groundwater Elevation		Surveyed by																		
Cibeureum River		7.00 m below ground surface		Dadang Rosana																		
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES										
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N - Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type	
										0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50				
05.07.94	1	49.49	0.20 0.80	0.20 1.00		SILT	dark brown	Topsoil clayey SILT	1	2	3	3	8						1		<input type="checkbox"/>	
	2		2.00			SILT	yellowish brown	SILT soft to firm	2	5	5	6	16						2		<input type="checkbox"/>	
	3	47.49		3.00		PEBBLE SANDSTONE				3	13	16	12	41					3		<input type="checkbox"/>	
	4	46.79	0.70	3.70						4	20	24	27	71						4		<input type="checkbox"/>
	5		2.60			PUMICE TUFF	yellowish light brown	fine to medium grained, poorly cemented highly weathered		5	36	43	33	112						5		<input type="checkbox"/>
	6	44.19		6.30						6	14	11	11	36						6		<input type="checkbox"/>
06.07.94	7	42.19	2.00	8.30		CLAY STONE (tuffaceous)	yellowish grey pale brown	highly to medium weathered	7	39	40	50	129						7		<input type="checkbox"/>	
	8							8	21	20	22	80						8		<input type="checkbox"/>		
	9		1.80		SANDSTONE (tuffaceous)	greenish light grey	highly to medium weathered, medium cemented		9	27	27	32	86						9		<input type="checkbox"/>	
	10	40.39		10.10					10	15	21	25	61						10		<input type="checkbox"/>	
	11		2.10		SILT STONE (tuffaceous)	greenish dark grey	highly to medium weathered, medium cemented		11	25	30	50	105						11		<input type="checkbox"/>	
	12	38.29		12.20					12	17	21	22	60						12		<input type="checkbox"/>	
	13	37.09	1.20	13.40		SANDSTONE (tuffaceous)	greenish dark grey	highly to medium weathered	13	14	28	27	69						13		<input type="checkbox"/>	
	14		1.60		SILT STONE (tuffaceous)	greenish dark grey	medium weathered		14	30	40	50	120						14		<input type="checkbox"/>	
	15	35.49 35.09	0.40	15.10	SANDSTONE	dark grey	med. weath., tuffaceous		15				50						15		<input type="checkbox"/>	
	16	34.24	0.85	16.25		SILT STONE	greenish grey	medium weathered	16										16		<input type="checkbox"/>	
07.07.94	17							17										17		<input type="checkbox"/>		
	18		3.10			SANDSTONE (tuffaceous)	greenish dark grey	medium weathered, fine grained, well cemented	18										18		<input type="checkbox"/>	
	19	31.14		19.35				19											19		<input type="checkbox"/>	
	20	30.49	0.65	20.00		SILT STONE	greenish grey	medium weathered	20										20		<input type="checkbox"/>	
	21							21											21		<input type="checkbox"/>	
	22							22											22		<input type="checkbox"/>	
	23							23											23		<input type="checkbox"/>	
	24							24											24		<input type="checkbox"/>	
	25							25											25		<input type="checkbox"/>	
	26							26											26		<input type="checkbox"/>	
	27							27											27		<input type="checkbox"/>	
	28							28											28		<input type="checkbox"/>	
	29							29											29		<input type="checkbox"/>	

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date																	
BBG-2		+ 49.735 m		08.07.94 to 10.07.94																	
Location			Ground-water Elevation		Surveyed by																
Cibeureum River			no ground water encountered		Dadang Rosana																
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES									
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N - Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type
										0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50			
08.07.94		49.44	0.30	0.30	[Pattern]	SILT	dark brown	with some clayey SILT, soft													
	1	48.74	0.70	1.09																	
	2		1.35		[Pattern]	CLAY	brownish grey	CLAY, soft - plastic		3	3	4	10								
	2	47.39		2.35																	
3		46.94	0.45	2.80	[Pattern]	CONGLOM.	d. brown	CONGLOMERATE		4	5	17	26								
3		46.34	0.60	3.40	[Pattern]	SILTSTONE	yellowish grey	moderately weathered													
4		45.74	0.60	4.00	[Pattern]	SANDSTONE	dark grey	moderately weathered													
09.07.94	5				[Pattern]	PUMICE TUFF	whitish dark grey	well cemented slightly to moderately weathered													
	6		3.10																		
	7		42.64		7.10	[Pattern]	PUMICE TUFF	dark grey	well cemented												
	8		42.04	0.60	7.70	[Pattern]	CLAY STONE (tuffaceous)	greenish dark grey	moderately weathered												
	9		40.84		8.90	[Pattern]	SAND STONE (tuffaceous)	dark grey	fine grained moderately weathered												
	10		39.74	1.10	10.00	[Pattern]	SILTSTONE	greenish grey	moderately weathered												
	11		39.24	0.50	10.50	[Pattern]	SAND STONE (tuffaceous)	dark grey	fine to coarse grained, well cemented												
	12		38.14		11.60	[Pattern]	SILTSTONE	dark grey	moderately weathered												
	12		37.34	0.80	12.40	[Pattern]	SAND STONE (tuffaceous)	greenish dark grey	fine to coarse grained well cemented slightly to moderately weathered												
	16			7.10		[Pattern]	SAND STONE (tuffaceous)	greenish dark grey	fine to coarse grained well cemented slightly to moderately weathered												
	20		29.94		19.20	[Pattern]	SILTSTONE	dark grey	moderately weathered												
	20		29.71	0.20	20.00	[Pattern]	SILTSTONE	dark grey	moderately weathered												

starting at 2.70 m no further penetration by SPT possible

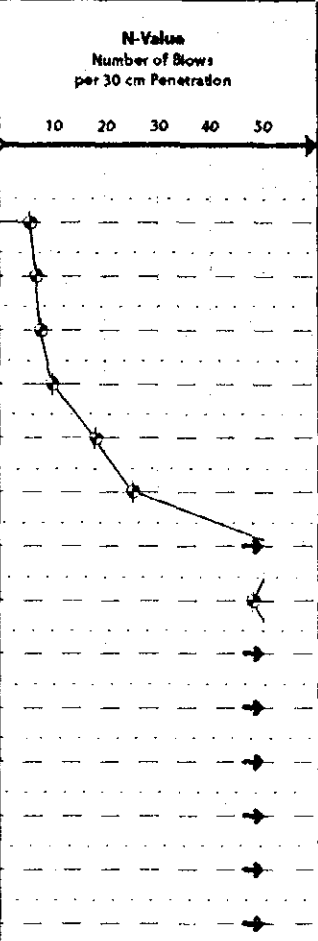


Thinwall Tube
 Split Barrel
 Denison

C.2 Drilling Log (4/40)

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES										DRILL LOG											
Bore Hole No. BBG-4			Elevation + 35.492 m			Date 30.06.94 to 01.07.94															
Location Ciruruh River - Maja			Groundwater Elevation 0.35 m below ground surface			Surveyed by Dadang Rosana															
CLASSIFICATION AND DESCRIPTION OF MATERIAL								STANDARD PENETRATION TESTING				SAMPLES									
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Number of Blows			N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type	
									0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50				
30.06.94		34.99	0.50	0.50		0.35 SILT	grey-brown	clayey SILT, plastic													
	1		2.25			CLAY	brownish dark grey	CLAY, plastic	2	2	2	6									
	2		32.74	0.25	2.75				2	2	3	7									
	3		32.49		3.00		PEBBLES	grey	PEBBLES, SAND	2	3	3	8								
	4			2.40			SILT	brownish grey	SILT, soft	3	3	4	10								
	5		30.69		5.40		SANDSTONE		SANDSTONE Tuffaceous, completely to highly weathered, fine grained, poorly cemented, brittle	5	6	7	18								
	6			4.60			SANDSTONE (Tuffaceous)	brownish grey		12	18	23	53								
	7						SANDSTONE			13	16	19	48								
	8		25.49		10.00		SILTSTONE		SILTSTONE Tuffaceous, highly weathered fine grained, poorly cemented, broken, with silicified wood	13	18	21	52								
	9						SILTSTONE			18	20	22	60								
	10			5.00			SILTSTONE (Tuffaceous)	brownish grey		26	35	39	100								
	11						SILTSTONE			29	35	38	102								
	12		20.49		15.00		SILTSTONE			20	26	26	72								
	13						SILTSTONE			21	25	30	76								
14						SILTSTONE															
15						SILTSTONE															
16						SILTSTONE															
17						SILTSTONE															
18						SILTSTONE															
19						SILTSTONE															
20						SILTSTONE															
21						SILTSTONE															
22						SILTSTONE															
23						SILTSTONE															
24						SILTSTONE															
25						SILTSTONE															
26						SILTSTONE															
27						SILTSTONE															
28						SILTSTONE															
29						SILTSTONE															

derived from decomposed PUMICE TUFF



Depth	No.	Type
1	1	<input type="checkbox"/>
2	2	<input type="checkbox"/>
3	3	<input type="checkbox"/>
4	4	<input type="checkbox"/>
5	5	<input type="checkbox"/>
6	6	<input type="checkbox"/>
7	7	<input type="checkbox"/>
8	8	<input type="checkbox"/>
9	9	<input type="checkbox"/>
10	10	<input type="checkbox"/>
11	11	<input type="checkbox"/>
12	12	<input type="checkbox"/>
13	13	<input type="checkbox"/>
14	14	<input type="checkbox"/>

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** **DRILL LOG**

Bore Hole No.		Elevation		Date																		
BBG-6		+ 37.731 m		26.06.94 to 28.06.94																		
Location			Ground-water Elevation		Surveyed by																	
Cicinta River - Maja			1.20 m below ground surface		Dadang Rosana																	
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES										
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	N-Value					Depth	No.	Type					
										Number of Blows per 30 cm Penetration												
									0 to 10 cm	10 to 20 cm	20 to 30 cm	N-Value	10	20	30	40	50					
26.06.94	1	36.73	0.30	0.30		TOPSOIL	yellowish brown															
			0.70	1.00		CLAY	brownish grey	sandy CLAY	1													
			1.00	2.00		CLAY	brownish grey	silty CLAY	3	2	2	7										
		35.73	1.40	2.00		SANDSTONE (tuffaceous)	yellowish grey	fine to medium grained, completely to highly weathered	19	26	29	74										
27.06.94	2	34.33	3.40						10	20	50	80										
			4.20			PUMICE TUFF	brownish light grey	fine to medium grained, well cemented medium to slightly weathered, some fragments of pumice (max ø 1 cm)	50	7	7											
			7.60			SANDSTONE	greenish dark grey	tuffac, fine-med. grained, mod. weathered														
		30.13	0.40	8.00		PUMICE TUFF & TUFF		Pumice Tuff with intercalations of Tuff														
		29.73	1.30	9.30		PUMICE TUFF		fine to medium grained, with some fragments of pumice (max ø ~ 0.5 cm)														
		28.43	1.70	11.00		SANDSTONE	light to dark grey	tuffac, highly weathered poorly cemented highly weathered														
			0.50	11.50		PUMICE TUFF		medium to slightly weathered														
		26.73	1.20	12.30		SANDSTONE	dark grey	fine to coarse grained, poorly cemented highly to mod. weath. (old river deposit)														
		26.23	0.50	11.50		SANDSTONE	yellowish dark brown	fine to coarse grained, moderately weathered														
		23.43	2.80	14.30		SANDSTONE (tuffaceous)	greenish grey	fine to coarse grained, moderately weathered														
28.06.94	3	21.43	2.00	16.30		PUMICE TUFF	greenish dark grey	fine to coarse grained, poorly cemented medium to slightly weathered, some fragments of pumice														
			2.30																			
		19.13	1.40	18.60																		
		17.73	1.40	20.00																		

Thinwall Tube
 Split Barrel
 Denison

C.2 Drilling Log (10/40)

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES										DRILL LOG																						
Bore Hole No. BBG-10				Elevation + 26.363 m			Date 01.08.94 to 03.08.94																									
Location Kp. Pasir Ceur				Groundwater Elevation 6.30 m below ground surface			Surveyed by Dadang Rosana																									
CLASSIFICATION AND DESCRIPTION OF MATERIAL								STANDARD PENETRATION TESTING				SAMPLES																				
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Number of Blows		N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type													
									0 to 10 cm	10 to 20 cm		20 to 30 cm	10	20	30	40				50												
01.08.94	1	25.86	0.50	0.50		SILT	d. brown	clayey SILT																								
		2	4.20	4.70		CLAY	yellowish brownish grey	silty CLAY, soft, with some fine sand	1	1	1	3																				
									5	6	6	17																				
									5	5	7	17																				
02.08.94	3	21.66	1.10	5.80		SAND	brownish grey	Decomposition Sand, v. soft, fine-med. grained poorly cemented	3	3	5	11																				
		4							1.90	6.30		SANDY TUFF	brownish greenish grey	completely to highly weathered	1	1	1	3														
															15	17	21	53														
		5							18.86	7.50		SILT STONE	brownish light grey	highly to moderately weathered	17	20	31	68														
															19	28	50	97														
		04.08.94							6	15.56	1.30	12.10		SAND STONE (tuffaceous)	light brown	highly to mod. weath., fine grained, poorly cemented																
										7							2.90		SAND STONE (tuffaceous)	greenish dark grey	moderately weath., fine-medium grained, med. - well cemented											
																						11	11	11	33							
12	12		12	36																												
13	13		13	39																												
14	14	14	42																													
05.08.94	8	11.36	15.00			SAND STONE (tuffaceous)	greenish dark grey	moderately weath., fine-medium grained, med. - well cemented																								
		9									SAND STONE (tuffaceous)	greenish dark grey	moderately weath., fine-medium grained, med. - well cemented																			
														15	15	15	45															
														16	16	16	48															
														17	17	17	51															

derived from decomposed Purmice Tuff

Thinwall Tube
 Split Barrel
 Denison

C.2 Drilling Log (14/40)

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES DRILL LOG

Bore Hole No. BBG-14		Elevation + 31.411 m		Date 28.07.94 to 30.07.94																	
Location Cimantuk River		Groundwater Elevation 4.00 m below ground surface		Surveyed by Dadang Rosana																	
CLASSIFICATION AND DESCRIPTION OF MATERIAL				STANDARD PENETRATION TESTING					SAMPLES												
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type
										0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50			
28.07.94	1	30.71	0.70	0.70		SILT	dark brown	clayey SILT, w. Roots	1				4						1	1	
	2		1.30			CLAY	dark brown	silty CLAY, very soft - plastic	2	1	1		4						2	2	
	3	29.41	1.00	2.00		SILT	brownish dark grey	sandy SILT, fine to coarse grained w. Organic Matter	2	2	2		6						3	3	
	4	28.41		3.00		SAND	yellowish brownish dark grey	silty, gravelly SAND fine to coarse grained old river deposit (Gravels of Siltstone, max $\phi \sim 5.0$ cm)	3	2	3		8						4	4	
	5		2.60			SAND	yellowish brownish dark grey	silty, gravelly SAND fine to coarse grained old river deposit (Gravels of Siltstone, max $\phi \sim 5.0$ cm)	3	2	3		8						5	5	
	6	25.81		5.60		CLAY	greenish dark grey	silty CLAY, soft - plastic, highly weathered.	2	2	2		6						6	6	
	7		1.85			CLAY	greenish dark grey	silty CLAY, soft - plastic, highly weathered.	3	3	4		10						7	7	
	8	23.96		7.45		CLAY	yellowish brownish grey	sandy, gravelly CLAY, fine to medium grained, max $\phi \sim 3$ cm, (8.6 - 8.7 Limestone, carbonat, clastic)	4	5	4		13						8	8	
	9		2.55			CLAY	yellowish brownish grey	sandy, gravelly CLAY, fine to medium grained, max $\phi \sim 3$ cm, (8.6 - 8.7 Limestone, carbonat, clastic)	2	2	3		7						9	9	
	10	21.41		10.00		CLAY	greenish grey	sandy, gravelly CLAY	2	3	3		8						10	10	
	29.07.94	11	20.41	1.00	11.00		CLAY	greenish grey	sandy, gravelly CLAY	3	3	5		11						11	11
12			2.80			SAND	yellowish brownish grey	silty, gravelly SAND fine to coarse grained, poorly graded (gravels of Sand- Siltstone max $\phi \sim 6.0$ cm, old river deposit)	5	4	5		14						12	12	
13						SAND	yellowish brownish grey	silty, gravelly SAND fine to coarse grained, poorly graded (gravels of Sand- Siltstone max $\phi \sim 6.0$ cm, old river deposit)											13	13	
14		17.61		13.80		SAND	yellowish brownish grey	11.45 - 11.60 Lignite											14	14	
15			3.20			SANDY TUFF	yellowish light brown	highly to mod. weathered, fine to medium grained											15	15	
16						SANDY TUFF	yellowish light brown	highly to mod. weathered, fine to medium grained											16	16	
17		14.41		17.00		SANDY TUFF	yellowish light brown	highly to mod. weathered, fine to medium grained	20	25	45		90						17	17	
18						SILT STONE	greenish brownish grey	moderately weathered, derived from decomposed Pumice Tuff											18	18	
19			3.00			SILT STONE	greenish brownish grey	moderately weathered, derived from decomposed Pumice Tuff											19	19	
20		11.41		20.00		SILT STONE	greenish brownish grey	moderately weathered, derived from decomposed Pumice Tuff											20	20	
21																			21	21	
22																		22	22		
23																		23	23		
24																		24	24		
25																		25	25		
26																		26	26		
27																		27	27		
28																		28	28		
29																		29	29		

C.2 Drilling Log (18/40)

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES

DRILL LOG

Bore Hole No.		Elevation		Date																	
BBG-18		+ 37.004 m		26.07.94 to 27.07.94																	
Location			Ground water Elevation		Surveyed by																
Cimanceuri River			4.70 m below ground surface		Ardian Nazmul																
CLASSIFICATION AND DESCRIPTION OF MATERIAL								STANDARD PENETRATION TESTING					SAMPLES								
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N - Value	N-Value					Depth	No.	Type
										0 to 10 cm	10 to 20 cm	20 to 30 cm		Number of Blows per 30 cm Penetration							
													10	20	30	40	50				
		36.60	0.40	0.40		SILT		sandy SILT (Topsoil)													
	1		1.60			SILT	yellowish brown	sandy SILT, soft, moist, fine grained	1	2	2	2	6						1	1	<input type="checkbox"/>
	2	35.00		2.00					2										2	2	<input type="checkbox"/>
	3								3	1	1	1	3						3	3	<input type="checkbox"/>
	4		3.45			SAND	brownish grey	silty SAND, fine to medium grained	4	1	2	2	5						4	4	<input type="checkbox"/>
	5	31.55		5.45					5	1	1	2	4						5	5	<input type="checkbox"/>
	6		2.00			CLAY	grey	sandy CLAY, soft, fine grained.	6	2	2	3	7						6	6	<input type="checkbox"/>
	7	29.55		7.45					7	2	3	3	8						7	7	<input type="checkbox"/>
	8								8										8	8	<input type="checkbox"/>
	9		3.00			SAND STONE	greyish to blackish	clayey SAND, completely weathered Sand stone; rich in foraminifera fossils	9	19	21	22	62						9	9	<input type="checkbox"/>
	10	26.55		10.45					10	35	45	50	130						10	10	<input type="checkbox"/>
	11		1.55			CLAY STONE	grey	highly weathered, with intercalations of Sand stone, rich in foraminifera fossils	11	24	38	45	107						11	11	<input type="checkbox"/>
	12	25.00		12.00					12	32	50		82						12	12	<input type="checkbox"/>
	13	23.90	1.10	13.10		SAND STONE	grey	silty SAND, highly weathered, rich in foraminifera fossils	13										13	13	<input type="checkbox"/>
	14								14										14	14	<input type="checkbox"/>
	15		3.90			CLAY STONE	grey	highly weathered, very fine grained, weak to medium weak, with some coral fossil	15										15	15	<input type="checkbox"/>
	16								16										16	16	<input type="checkbox"/>
	17	20.00		17.00					17										17	17	<input type="checkbox"/>
	18		2.20			SILT STONE	grey	silty SAND, fine grained, med. weak, rich in foraminifera fossils and some Pyrite	18										18	18	<input type="checkbox"/>
	19	17.80		19.20					19										19	19	<input type="checkbox"/>
	20	17.00	0.80	20.00		SAND STONE	grey	highly weath, fine grained, weak to medium weak, rich in foraminifera fossils	20										20	20	<input type="checkbox"/>
	21								21										21	21	<input type="checkbox"/>
	22								22										22	22	<input type="checkbox"/>
	23								23										23	23	<input type="checkbox"/>
	24								24										24	24	<input type="checkbox"/>
	25								25										25	25	<input type="checkbox"/>
	26								26										26	26	<input type="checkbox"/>
	27								27										27	27	<input type="checkbox"/>
	28								28										28	28	<input type="checkbox"/>
	29								29										29	29	<input type="checkbox"/>

Project **THE STUDY ON CIUJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date																	
BBG-21		+ 8.503 m		12.08.94 to 13.08.94																	
Location			Groundwater Elevation		Surveyed by																
Cisadane River			Borehole located inside river		Dadang Rosana																
CLASSIFICATION AND DESCRIPTION OF MATERIAL								STANDARD PENETRATION TESTING					SAMPLES								
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type
										0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50			
12.08.94		7.50	1.00	1.00	[Soil Profile]	GRAVEL	grey to dark grey	sandy GRAVEL, fine to coarse grained, well graded, max Ø ~ 3cm, subangular to subrounded	1				5						1		[Type]
			1.45	2.45		SAND	grey to dark grey	clayey SAND, fine grained, poorly graded	2	1	2	2	5						2		[Type]
			5.05	1.00	3.45		SAND	brownish grey	gravelly SAND, fine to coarse grained, well graded	3	3	3	3	9					3		[Type]
										4	5	6	6	17					4		[Type]
										5	2	3	3	8					5		[Type]
										6	4	5	5	14					6		[Type]
							SAND	dark grey	clayey SAND, very fine grained	7	4	5	6	15					7		[Type]
										8	4	3	4	11					8		[Type]
13.08.94		0.05		8.45					9	5	6	7	18					9		[Type]	
									10	20	20	30	70					10		[Type]	
									11	50			50					11		[Type]	
							SAND	dark grey	gravelly SAND, fine to coarse grained, well graded, max Ø ~ 2 cm (old river deposit)	12									12		[Type]
										13									13		[Type]
										14									14		[Type]
			5.90		14.40					15									15		[Type]
		6.50	0.60	15.00		GRAVEL	dark grey	sandy GRAVEL, well graded, max Ø ~ 5cm, subangular to subrounded (old river deposit)	16									16		[Type]	
									17									17		[Type]	
									18									18		[Type]	
									19									19		[Type]	
									20									20		[Type]	
									21									21		[Type]	
									22									22		[Type]	
									23									23		[Type]	
									24									24		[Type]	
									25									25		[Type]	
									26									26		[Type]	
									27									27		[Type]	
									28									28		[Type]	
									29									29		[Type]	

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES DRILL LOG

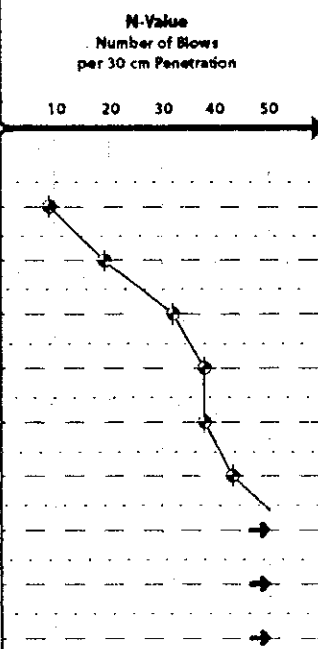
Bore Hole No.		Elevation		Date																		
BEM-1		+ 42.659 m		06.07.94 to 07.07.94																		
Location		Groundwater Elevation		Surveyed by																		
Kp. Pasircari		3.10 m below ground surface		Dadang Rosana																		
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES										
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type	
										0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50				
06.07.94 07.07.94		41.86	0.80	0.80		SILT	dark brown	clayey SILT with some roots	1				15						1	1	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison	
			1.70			SILT	brownish grey	SILT soft, plastic	5	5	5	15							2	2	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison	
		40.16		2.50		SILT	brownish light grey	SILT soft, plastic	4	4	5	13							3	3	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison	
			1.75	(G.W.)		SILT	brownish light grey	SILT soft, plastic	6	11	11	28								4	4	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
		38.41		4.25		CLAY STONE (tuffaceous)	light grey	highly - mod. weath. soft - medium hard	7	9	11	27								5	5	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
			4.25			CLAY STONE (tuffaceous)	greenish dark grey	highly - mod. weath. soft - medium hard	11	15	20	46								6	6	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
						CLAY STONE (tuffaceous)	greenish dark grey	highly - mod. weath. soft - medium hard	14	18	24	56								7	7	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
		34.16		8.50		SILT STONE (tuffaceous)	greenish dark grey	mod. weathered, medium hard	14	24	30	68								8	8	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
		32.66		10.00		SILT STONE (tuffaceous)	greenish dark grey	mod. weathered, medium hard	20	27	29	76								9	9	<input type="checkbox"/> Thinwall Tube <input type="checkbox"/> Split Barrel <input checked="" type="checkbox"/> Denison
																				10		
																		11				
																		12				
																		13				
																		14				
																		15				
																		16				
																		17				
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Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** **DRILL LOG**

Bore Hole No.		Elevation		Date																
BEM-6		+ 35.057 m		21.07.94 to 22.07.94																
Location		Groundwater Elevation		Surveyed by																
Kp. Cilame		4.10 m below ground surface		Dadang Rosana																
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES								
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Number of Blows			N - Value	M-Value Number of Blows per 30 cm Penetration					Depth	No.	Type
									0 to 10 cm	10 to 20 cm	20 to 30 cm		10	20	30	40	50			
21.07.94		34.46	0.60	0.60	[Pattern]	SILT	d. brown	clayey SILT, soft, w. roots												
			1.55		[Pattern]	CLAY	yellowish brownish grey	silty CLAY, soft - plastic												
		32.91		2.15	[Pattern]															
			1.65		[Pattern]	SILT STONE	greenish grey	completely to highly weathered, with some fine sand												
		31.26		3.80	[Pattern]															
					4.10	[Pattern]														
						SAND STONE (Tuffaceous)	greenish dark grey	highly to moderately weathered, fine to medium grained, poorly to medium cemented, rich in quartz												
			4.80																	
22.07.94		26.46		8.60	[Pattern]															
		26.06	0.40	9.00	[Pattern]	CLAYSTONE	dark grey	moderately weathered												
			1.00			SAND STONE (Tuffaceous)	greenish dark grey	moderately weathered, medium to well cemented												
		25.06		10.00	[Pattern]															

derived from decomposed Purific Tuff

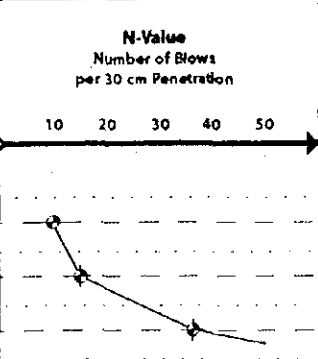
G.W.



Thinwall Tube
 Split Barrel
 Denison

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date													
BEX-4		+ 53.620 m		26.07.94 to 30.07.94													
Location		Groundwater Elevation		Surveyed by													
Kp. Rancabuaya		9.25 m below ground surface		Ardian Nazmul													
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES					
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	N-Value					Depth	No.	Type
										0 to 5	10 to 15	20 to 25	30 to 35	40 to 50			
		53.32	0.30	0.30		CLAY	brown	sandy CLAY (Topsoil)									
26.07.94			2.15			CLAY	brown	sandy CLAY, fine grained, soft	1	3	3	4	10		1		
		51.17		2.45					2	3	3	9	15		2		
27.07.94		50.17	1.00	3.45		SILT	brn-ash grey	sandy SILT, fine grained	3	7	11	18	36		3		
		48.62	1.55	5.00		SAND STONE (Tuffaceous)	yellowish brown	Sandstone completely weathered (silty, gravelly SAND, fine to medium grained)	4	21	31	40	92		4		
28.07.94						SAND STONE (Tuffaceous)	dark grey	Sandstone completely to highly weathered, fine to medium grained, well cemented, with lots of quartz.	5								
									6								
29.07.94									7								
									8								
									9								
			9.20					Intercalations of compl. to highly weath., fine grained, well cemented tuffaceous Claystone	10								
									11								
									12								
									13								
		39.42		14.20					14								
30.07.94		38.62	0.80	15.00		SANDSTONE CLAYSTONE	dark grey	alternating Sand /Clay-Stone, fine grained	15								
									16								
									17								
									18								
									19								
									20								
									21								
									22								
									23								
									24								
									25								
									26								
									27								
									28								
									29								



G.W. 9.25

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date																
BEX-5		+ 46.129 m		06.08.94 to 08.08.94																
Location			Groundwater Elevation		Surveyed by															
Kp. Kabasaran			3.25 m below ground surface		Ardian Nazmul															
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES								
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type			
										0 to 9	10 to 19	20 to 29	30 to 39	40 to 50				N-Value		
06.08.94	1	45.73	0.40	0.40		CLAY	reddish-brown	Topsoil	1						1	1				
			2.85					sandy Clay, soft, moist, very fine grained	24	27	31	82	2	2						
		42.88	3.25	3.25				G.W.	33	38	39	110	3	3						
07.08.94	4		4.20			SANDY TUFF	brownish grey	SANDY TUFF (sandy, gravelly SILT, coarse grained, max Ø ~ 2 cm)	5	5	5	15	5	7						
									4	4	5	13				4	4			
									6	6	8	20				5	5			
									8	8	11	27				6	6			
		38.68	7.45	7.45					5-St (Tuffac)	grey	CW, poorly cemented	3				3	5	11	7	7
08.08.94	8	38.33	0.35	7.80		CLAY STONE (Tuffaceous)	grey	compl. - highly weathered, well cemented, derived from decomposed Pumice Tuff	8	50	5	50	8	8						
			2.20						9								9	9		
		36.13	10.00	10.00					TUFF	light grey	highly weathered, fine grained, well cemented,								10	10
			1.70						TUFF	light grey	highly weathered, fine grained, well cemented,								11	11
		34.43	11.70	11.70					CLAY STONE (Tuffaceous)	grey	highly weathered, derived from decomposed Pumice Tuff								12	12
08.08.94	12	33.48	0.95	12.65		CLAY STONE (Tuffaceous)	dark grey	completely weathered, poorly cemented, derived from decomposed Pumice Tuff	12					12	12					
			2.35						13								13	13		
		31.13	15.00	15.00													14	14		
	15												15	15						
	16												16	16						
	17												17	17						
	18												18	18						
	19												19	19						
	20												20	20						
	21												21	21						
	22												22	22						
	23												23	23						
	24												24	24						
	25												25	25						
	26												26	26						
	27												27	27						
	28												28	28						
	29												29	29						

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** **DRILL LOG**

Bore Hole No. BRD-1				Elevation + 53.232 m				Date 06.07.94 to 07.07.94																
Location Kp. Ciherang - Maja				Groundwater Elevation 10.20 m below ground surface				Surveyed by Dadang Rosana																
CLASSIFICATION AND DESCRIPTION OF MATERIAL									STANDARD PENETRATION TESTING						SAMPLES									
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows	N-Value	N-Value Number of Blows per 30 cm Penetration					Depth	No.	Type					
										0 to 10	10 to 20	20 to 30	30 to 40	40 to 50										
06.07.94		52.73	0.50	0.50	[Pattern]	SILT	dark brown	sandy SILT	derived from decomposed Pumice Tuff															
		52.23	0.50	1.00		SILT	reddish brown	clayey SILT		1	8	11	26						1	[Symbol]				
2					[Pattern]	CLAY	reddish brown	silty CLAY soft, plastic		2	7	9	10	26					2	[Symbol]				
3			4.25									3	5	6	7	18					3	[Symbol]		
4											pale grey		4	3	3	6	12					4	[Symbol]	
5		47.98		5.25									5	3	4	6	13					5	[Symbol]	
07.07.94			2.25		[Pattern]	SANDSTONE (tuffaceous)	brownish light grey	highly weathered, fine-coarse grained, poorly cemented with some Pumice fragments		6	6	8	11	25						6	[Symbol]			
		45.73	0.15	7.50		SILTSTONE	dark grey			7	18	22	25	65						7	[Symbol]			
		45.58		7.65	[Pattern]	SANDSTONE (tuffaceous)	brownish light grey	highly weathered, fine-coarse grained, poorly cemented with some Pumice fragments		8	16	19	24	59							8	[Symbol]		
9			4.05										9	16	18	21	55						9	[Symbol]
10													10	19	21	26	66						10	[Symbol]
					[G.W.]					11	20	27	50	97						11	[Symbol]			
		41.53		11.70	[Pattern]	SILTSTONE	brownish light grey	highly weathered		12										12	[Symbol]			
		41.03	0.50	12.20		SANDSTONE	grey	mod. weathered													12	[Symbol]		
		40.63	0.40	12.60						13										13	[Symbol]			
					[Pattern]	SILTSTONE	greenish dark grey	mod. weathered	14											14	[Symbol]			
			2.40							15										15	[Symbol]			
		38.23		15.00					16										16	[Symbol]				
16									17										17	[Symbol]				
17									18										18	[Symbol]				
18									19										19	[Symbol]				
19									20										20	[Symbol]				
20									21										21	[Symbol]				
21									22										22	[Symbol]				
22									23										23	[Symbol]				
23									24										24	[Symbol]				
24									25										25	[Symbol]				
25									26										26	[Symbol]				
26									27										27	[Symbol]				
27									28										28	[Symbol]				
28									29										29	[Symbol]				

DRAFT

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date																	
BRD-2		+ 44.200 m		18.07.94 to 19.07.94																	
Location		Groundwater Elevation		Surveyed by																	
Kp. Kadepes		7.10 m below ground surface		Dadang Rosana																	
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES									
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	Depth	Number of Blows			N-Value	N-Value					Depth	No.	Type
										0 to 10 cm	10 to 20 cm	20 to 30 cm		Number of Blows per 30 cm Penetration							
													10	20	30	40	50				
18.07.94		43.60	0.60	0.60	[Pattern]	SILT	brown	clayey SILT, soft, w. roots	1									1		[Symbol]	
			2.20		[Pattern]	CLAY	yellowish brownish grey	silty CLAY, soft - plastic	2	3	3	3	9						2		[Symbol]
		41.40		2.80	[Pattern]				3	4	4	5	13						3		[Symbol]
									4	8	9	10	27						4		[Symbol]
									5	9	9	10	28						5		[Symbol]
			5.20				SILT STONE	yellowish brownish grey	completely to highly weathered, with some fine grained seams	6	7	7	8	22					6		[Symbol]
									7	8	8	9	25						7		[Symbol]
			36.20		8.00	[Pattern]				8	7	9	10	26					8		[Symbol]
										9	8	7	8	23					9		[Symbol]
			34.05		2.15	[Pattern]	CLAY STONE	greenish dark grey	completely to highly weathered	10	14	16	20	50					10		[Symbol]
19.07.94									11	10	18	20	48					11		[Symbol]	
									12	14	18	20	52					12		[Symbol]	
									13	14	28	50	92					13		[Symbol]	
									14	14	28	50	92					14		[Symbol]	
			29.40		4.85	[Pattern]	SAND STONE (Tuffaceous)	tan to dark grey	highly to moderately weathered, fine to coarse grained, poorly to medium cemented, rich in local plant remains	15	14	28	50	92					15		[Symbol]
		20.20		0.20	[Pattern]	LIGNITE	black		16									16		[Symbol]	
									17									17		[Symbol]	
									18									18		[Symbol]	
									19									19		[Symbol]	
									20									20		[Symbol]	
									21									21		[Symbol]	
									22									22		[Symbol]	
									23									23		[Symbol]	
									24									24		[Symbol]	
									25									25		[Symbol]	
									26									26		[Symbol]	
									27									27		[Symbol]	
									28									28		[Symbol]	
									29									29		[Symbol]	

Project **THE STUDY ON CILJUNG-CIDURIAN INTEGRATED WATER RESOURCES** DRILL LOG

Bore Hole No.		Elevation		Date																				
BRY-1		+ 51.615 m		01.08.94 to 03.08.94																				
Location		Groundwater Elevation		Surveyed by																				
Kp. Cibayana		3.90 m below ground surface		Dadang Rosana																				
CLASSIFICATION AND DESCRIPTION OF MATERIAL							STANDARD PENETRATION TESTING					SAMPLES												
Date	Scale	Elevation	Stratum Thickness	Depth	Soil Profile	Classification	Colour	Description	N-Value					Depth	No.	Type								
									Number of Blows per 30 cm Penetration															
									0 to 10 cm	10 to 20 cm	20 to 30 cm	N - Value												
												10	20	30	40	50								
01.08.94	1					SILT	yellowish reddish brown	sandy SILT, w. some Clay, fine to medium grained, soft, (derived from decomposed sandy tuff)	2	2	3	7						1	1	Thinwall Tube				
	2								5	5	5	15								2	2	Split Barrel		
	3		4.75																		3	3	Denison	
	4		46.87		4.75																	4	4	Denison
	5		46.52	0.35	5.10					SILT		compl. weath, fine grained.	3	4	5	12						5	5	Denison
02.08.94	6		1.90			Alternation of SANDSTONE (tuffaceous) and CLAYSTONE (tuffaceous)	greenish grey	SANDSTONE, highly weathered, fine to medium grained poorly cemented	7	10	14	31							6	6	Thinwall Tube			
	7		44.62		7.00																7	7	Thinwall Tube	
	8																					8	8	Thinwall Tube
	9																					9	9	Thinwall Tube
	10																					10	10	Thinwall Tube
	11		40.32		11.00																	11	11	Thinwall Tube
	12		39.32	1.00	12.30					SANDSTONE (tuffaceous)	dark grey	highly weathered, poorly cemented	13	16	20	49						12	12	Thinwall Tube
	13		38.42	0.90	13.20					SILTSTONE (tuffaceous)	greenish grey	highly - mod. weathered, fine to medium grained medium - well cemented	40	50	5	90						13	13	Thinwall Tube
	14			1.90						SILTSTONE	light grey	highly - mod. weathered, with some Pyrite	26	26	40	102						14	14	Thinwall Tube
	15		36.52		15.10								50	15		50						15	15	Thinwall Tube
03.08.94	16					CLAYSTONE	greenish dark grey	moderately weathered, medium hard / strong, well cemented	50	10		50							16	16	Thinwall Tube			
	17		3.20																		17	17	Thinwall Tube	
	18		33.32		18.30																	18	18	Thinwall Tube
	19		32.92	0.40	18.70					LIGNITE	black											19	19	Thinwall Tube
	20		31.62	1.30	20.00					CLAYSTONE	greenish dark grey	moderately weathered, well cemented										20	20	Thinwall Tube
	21																		21	21	Thinwall Tube			
	22																		22	22	Thinwall Tube			
	23																		23	23	Thinwall Tube			
	24																		24	24	Thinwall Tube			
	25																		25	25	Thinwall Tube			
	26																		26	26	Thinwall Tube			
	27																		27	27	Thinwall Tube			
	28																		28	28	Thinwall Tube			
	29																		29	29	Thinwall Tube			

C.3 Test Pit Log

Project **THE STUDY ON CIUJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-1	Elevation	not determined	Date	09.07.94
Location	Kp. Karenyeng - Maja	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL								
Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
09.07.94	10					SAND	light to dark brown	silty Sand fine to medium grained with some organic matter
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
	10					TUFF	whitish to light brown	sandy Tuff fine to medium grained well cemented with some fragments of Pumice (max ϕ ~ 0.5 cm)
20								
30								
40								
50								
60								
70								
80								
90								
2.0								
30								
40								
50								
60								
70								
80								
90								

0.50 m - 1.00 m
Sample taken for
Laboratory Testing

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Fest Pit No.	TP-2	Elevation	not determined	Date	11.08.94
Location	Kp. Kadu	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
11.08.94	10	[Vertical line pattern]	[Vertical line pattern]	[Vertical line pattern]	[Vertical line pattern]	SILT	dark brown	clayey SILT, with some roots, soft
	20							
	30							
	40							
	50	[Horizontal line pattern]	[Horizontal line pattern]	[Horizontal line pattern]	[Horizontal line pattern]	CLAY	yellowish reddish grey	sandy CLAY, wit some sand, fine grained
	60							
	70							
	80							
	90	[Stippled pattern]	[Stippled pattern]	[Stippled pattern]	[Stippled pattern]	CLAY	reddish grey	sandy CLAY, fine grained, wit some fragments of pumice, max Ø ~ 2 cm (derived from decomposed tuffaceous sandstone)
	1.0							
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]
	2.0							
10								
20								
30								
40								
50								
60								
70								
80								
90								

0.70 m - 2.00 m
Sample taken for
Laboratory Testing

Project **THE STUDY ON CIUJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-3	Elevation	not determined	Date	12.08.94
Location	Kp. Cisauk Girang (Setu)	Groundwater Elevation	no groundwater encountered	Surveyed by	Ardian Nazmul

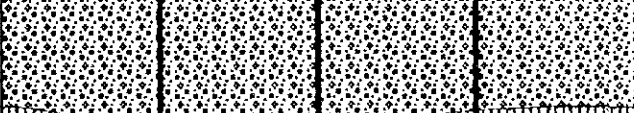
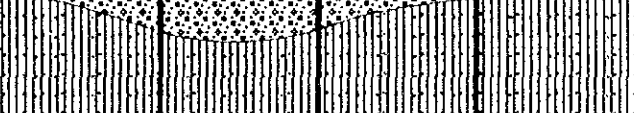
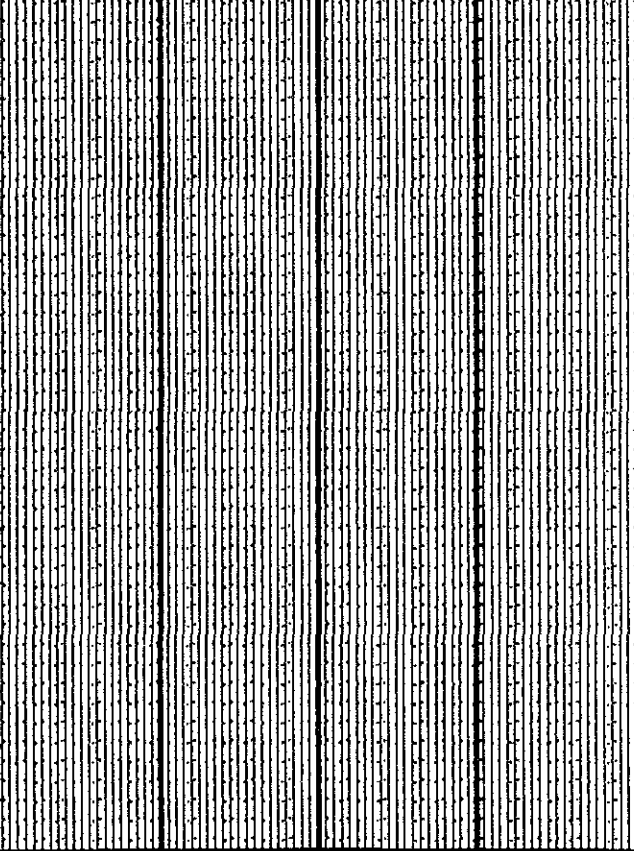
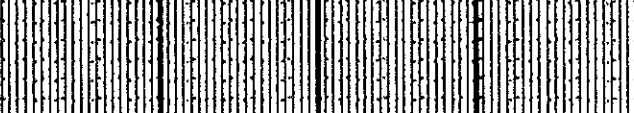
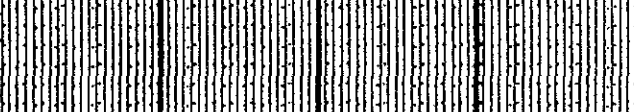
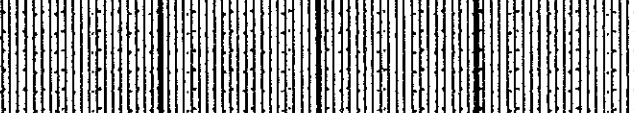
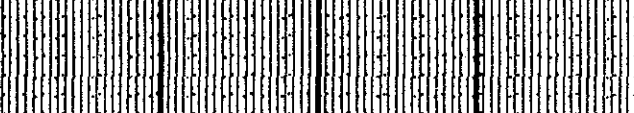
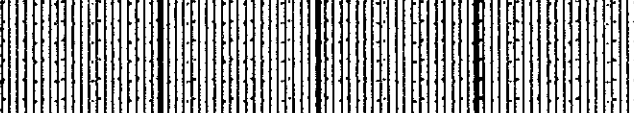
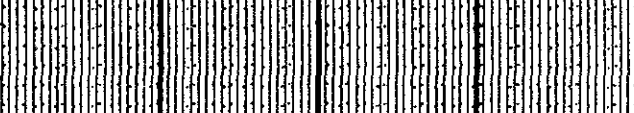
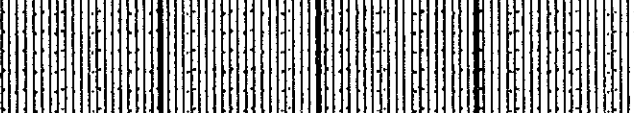



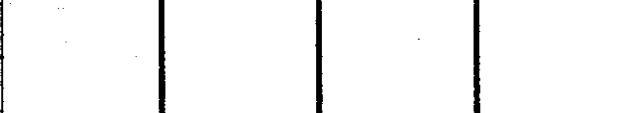

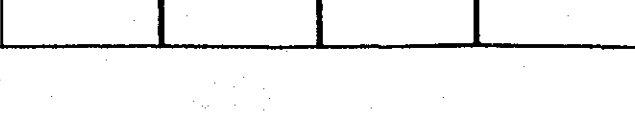

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
12.08.94	10	[Hatched Area]	[Hatched Area]	[Hatched Area]	[Hatched Area]	SILT	reddish brown	TOPSOIL
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
	10							0.30 m - 2.00 m Sample taken for Laboratory Testing
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	2.0							10
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	20							

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-4	Elevation	not determined	Date	14.07.94
Location	Kp. Kademangan	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
14.07.94	0					SAND and GRAVEL		
	10							
	20					sandy SILT	redish brown	soft, low to medium plasticity fine grain of sand
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
2.0								
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							

Project THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES

TEST PIT LOG

Test Pit No.	TP-5	Elevation	not determined	Date	04.08.94
Location	Kp. Cibunar	Ground water Elevation	no groundwater encountered	Surveyed by	Adrian Nazmul

CLASSIFICATION AND DESCRIPTION OF MATERIAL								
Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
04.08.94	10					SILT	brown	Topsoil, sandy SILT
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
	10					SAND	brownish grey	silty, gravelly SAND fine to coarse grained
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	2.0							
	10					SAND	yellowish brown	silty, gravelly SAND, max ϕ ~ 3cm, (completely weathered sandy Tuff)
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.00							
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.00							

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-6	Elevation	not determined	Date	10.08.94
Location	Kp. Pahang - Daru (Tenjo)	Ground water Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description					
		North Wall	East Wall	South Wall	West Wall								
10.08.94	10					SILT	dark brown	clayey SILT, soft, with some roots (Topsoil)					
	20												
	30												
	40												
	50												
	60												
	70												
	80												
	90												
	1.0												
	10.08.94					10					CLAY	yellowish brown	silty gravelly CLAY, soft, with gravels of weathered fragments of pumice and tuff, max Ø ~ 2 cm
						20							
						30							
						40							
						50							
						60							
						70							
						80							
						90							
						2.0							
	10.08.94					10					SILT	reddish brown, pale grey	sandy clayey SILT, soft, fine to medium grained, with some fragments of weathered pumice, max Ø ~ 3 cm (derived from decomposed tuffaceous sandstone)
						20							
						30							
						40							
						50							
						60							
						70							
						80							
						90							
						2.0							
10.08.94	10												
	20												
	30												
	40												
	50												
	60												
	70												
	80												
	90												
	2.0												

0.80 m - 2.00 m
Sample taken for
Laboratory Testing

Project **THE STUDY ON CIUJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-7	Elevation	not determined	Date	29.07.94
Location	Kp. Cijenekol / Adiyasa	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
29.07.94	0-20					SILT	dark brown	clayey SILT (Topsoil), with someroots
	20-40							
	40-60							
	60-80							
	80-1.0							
	1.0-2.0							
	2.0-3.0							
	3.0-4.0							
	4.0-5.0							
	5.0-6.0							
	6.0-8.0							
	8.0-10.0							
29.07.94	0-20					CLAY	brown	silty CLAY, with some fine grained sands
	20-40							
	40-60							
	60-80							
	80-1.0							
	1.0-2.0							
	2.0-3.0							
	3.0-4.0							
	4.0-5.0							
	5.0-6.0							
	6.0-8.0							
	8.0-10.0							
29.07.94	0-20					SILT	reddish brown	clayey SILT, with some fine grained sands (derived from completely weathered Siltstone)
	20-40							
	40-60							
	60-80							
	80-1.0							
	1.0-2.0							
	2.0-3.0							
	3.0-4.0							
	4.0-5.0							
	5.0-6.0							
	6.0-8.0							
	8.0-10.0							
29.07.94	0-20					SANDY TUFF	yellowish light brown	completely to highly weathered, fine to medium grained, poorly cemented
	20-40							
	40-60							
	60-80							
	80-1.0							
	1.0-2.0							
	2.0-3.0							
	3.0-4.0							
	4.0-5.0							
	5.0-6.0							
	6.0-8.0							
	8.0-10.0							
29.07.94	0-20							
	20-40							
	40-60							
	60-80							
	80-1.0							
	1.0-2.0							
	2.0-3.0							
	3.0-4.0							
	4.0-5.0							
	5.0-6.0							
	6.0-8.0							
	8.0-10.0							

2.90 m - 3.80 m
Sample taken for
Laboratory Testing

Project THE STUDY ON CIUJUNG-CIDURIAN INTEGRATED WATER RESOURCES

TEST PIT LOG

Test Pit No.	TP-8	Elevation	not determined	Date	30.07.94
Location	Kp. Baru Tenjo	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
30.07.94	10	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	SILT	dark brown	Topsoil, with Roots and Organic Matter
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
30.07.94	10	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	SILT	yellowish light brown	clayey, gravelly SILT, (gravels of weathered Pumice, max ø ~ 1 cm)
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	2.0							
30.07.94	10	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	[Hatched pattern]	SILT	light brown	clayey SILT, with some fine grained sand and gravels of pumice
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	2.0							

1.00 m - 2.00 m
Sample taken for
Laboratory Testing

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-9	Elevation	not determined	Date	23.07.94
Location	Kp. Ciganjur	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
23.07.94	10	[Vertical line pattern]	[Vertical line pattern]	[Vertical line pattern]	[Vertical line pattern]	SILT	light brown	clayey SILT, with some fine grained Sand and Roots
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	2.0							
	10							
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							

0.60 m - 1.00 m
Sample taken for
Laboratory Testing

Project **THE STUDY ON CIJUNG-CIDURIAN INTEGRATED WATER RESOURCES** TEST PIT LOG

Test Pit No.	TP-10	Elevation	not determined	Date	06.08.94
Location	Kp. Cluyah / Sajira	Groundwater Elevation	no groundwater encountered	Surveyed by	Dadang Rosana

CLASSIFICATION AND DESCRIPTION OF MATERIAL

Date	Depth	Soil Profile				Classification	Colour	Description
		North Wall	East Wall	South Wall	West Wall			
06.08.94	10					SILT	dark brown	Topsoil, clayey SILT, soft, with roots
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							
	1.0							
20								
30								
40								
50								
60								
70								
80								
90								
2.0		10					SANDY TUFF	yellowish brown light grey
	20							
	30							
	40							
	50							
	60							
	70							
	80							
	90							

1.60 m - 2.00 m
Sample taken for
Laboratory Testing

**C.4 *Seismicity in West Java
and Its Vicinity***

C.4 Seismicity in West Java and Its Vicinity (3/8)

SEISMICITY IN WEST JAVA AND ITS VICINITY PERIOD 1990 - 1992 (M = 4.0 - 4.9 SR) (2/2)

No.	Day	Month	Year	Time (GMT)		Lat.	Long.	h	Time(GW)	
2161	6	06	91	3	16	29.7	6.14 S	103.52 E	30	4.0
2177	9	06	91	16	49	53.3	5.84 S	102.62 E	30	4.4
2182	10	06	91	6	15	25.4	9.24 S	109.44 E	55	4.7
2193	12	06	91	9	30	57.6	4.93 S	102.81 E	26	4.1
2228	19	06	91	10	10	17.7	7.17 S	105.19 E	33	4.4
2235	20	06	91	17	39	47.0	10.42 S	111.87 E	33	4.8
2238	21	06	91	5	52	18.6	3.58 S	111.40 E	30	4.7
2242	21	06	91	18	34	50.9	4.59 S	101.90 E	33	4.3
2248	22	06	91	15	3	51.8	7.41 S	106.65 E	65	4.7
2252	22	06	91	18	18	7.7	7.21 S	105.54 E	35	4.8
2259	23	06	91	4	42	20.7	9.29 S	105.94 E	33	4.0
2264	23	06	91	22	35	45.6	8.04 S	107.03 E	33	4.3
2276	25	06	91	22	39	46.7	8.54 S	107.47 E	35	4.5
7	2	07	91	05	14	18.0	2.80 S	98.17 E	335	4.4
58	9	07	91	04	18	24.3	7.56 S	105.96 E	8	4.2
109	17	07	91	09	42	47.5	3.88 S	98.40 E	150	4.3
117	18	07	91	08	34	4.3	5.23 S	100.99 E	61	4.1
125	20	07	91	02	54	52.0	6.43 S	110.29 E	690	4.0
141	21	07	91	12	33	29.2	5.66 S	101.67 E	61	4.4
143	21	07	91	14	28	9.1	5.56 S	101.54 E	61	4.5
147	21	07	91	19	54	16.3	6.57 S	104.62 E	21	4.1
179	25	07	91	02	52	46.3	7.05 S	104.80 E	65	4.9
200	29	07	91	12	33	29.2	5.66 S	101.67 E	61	4.4
202	30	07	91	14	28	9.1	5.56 S	101.54 E	61	4.5
289	10	08	91	15	25	21.3	7.59 S	106.78 E	51	4.1
297	11	08	91	07	17	46.8	6.53 S	106.65 E	184	4.0
328	18	08	91	03	33	22.4	9.26 S	109.70 E	317	4.5
371	26	08	91	21	23	52.5	6.58 S	103.46 E	21	4.6
410	4	09	91	02	03	20.1	6.18 S	105.21 E	13	4.3
423	5	09	91	04	16	20.1	6.97 S	105.83 E	113	4.8
460	14	09	91	12	43	47.1	10.13 S	109.37 E	150	4.5
473	17	09	91	00	16	14.7	6.14 S	105.32 E	12	4.7
619	18	10	91	05	00	28.0	6.27 S	105.16 E	9	4.1
648	22	10	91	09	42	31.8	7.29 S	105.37 E	2	4.3
693	24	10	91	17	13	45.7	7.36 S	105.34 E	12	4.9
696	24	10	91	22	07	45.5	7.45 S	105.48 E	61	4.7
849	14	11	91	18	06	44.8	8.14 S	107.11 E	21	4.0
879	19	11	91	00	17	42.3	6.16 S	104.02 E	21	4.1
893	22	11	91	23	59	20.5	9.62 S	108.08 E	12	4.6
957	3	11	91	15	45	53.7	6.80 S	102.57 E	12	4.6
1034	17	11	91	06	21	27.4	7.80 S	107.28 E	64	4.8

Legend :

h = depth (km)

M = magnitude (Richter Scale)

SEISMICITY IN WEST JAVA AND ITS VICINITY

(1) Period 1970 - 1990 (M > 6.0 SR)

Date			Time			Epicenter		Depth	Magnitude		
Day	Month	Year	Hour	Minute	Sec.	Lat.	Long.	(km)	Mb	Ms	R
09	11	1974	19	10	55.2	6.50 S -	105.30 E	51	6.1		
09	02	1975	22	36	04.0	7.20 S -	105.90 E	33	6.3		
30	06	1976	07	00	06.9	7.86 S -	108.91 E	33	6.7		
06	09	1979	16	01	28.0	7.50 S -	106.50 E	33			6.0
02	11	1979	15	53	03.5	7.66 S -	108.25 E	62	6.1		
17	08	1988	01	58	50.0	9.00 S -	106.00 E	33	6.0		
04	05	1971	02	04	32.6	6.61 S -	105.37 E	69	6.1		6.0
17	05	1974	20	55	11.2	6.51 S -	106.84 E	131	6.0		
14	02	1978	00	03	51.6	7.71 S -	107.05 E	85	6.1		
26	10	1982	12	44	17.7	8.10 S -	108.44 E	237	6.1		
02	08	1990	15	03	28.5	6.90 S -	105.10 E	30	6.0		

Source : Meteorological and Geophysical Agency of Ministry of Communication (BMG)

(2) Period : 1991 - 1992 (M > 6.0 SR)

Date			Time (GMT)			Epicenter			
Day	Month	Year	Hour	Minute	Sec.	Lat.	Long.	h	M
20	2	91	5	49	30.4	8.99 S -	108.29 E	30	6.1
2	6	91	16	50	6.2	9.89 S -	111.15 E	75	6.1
6	6	91	2	28	49.5	6.16 S -	103.79 E	35	6.1
11	6	91	18	55	44.1	5.17 S -	101.34 E	55	6.0
18	04	92	9	16	23.5	5.88 S -	100.49 E	61	6.6
09	06	92	0	32	9.6	9.31 S -	109.67 E	12	6.7
02	09	92	5	49	58.3	7.37 S -	111.25 E	756	6.3

110