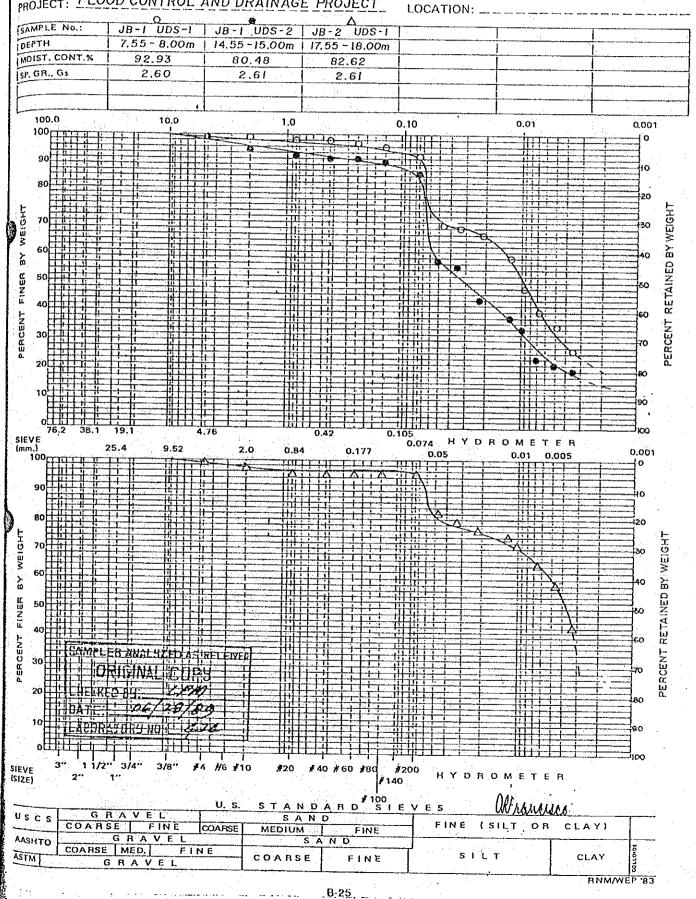


TECHNOTEST, INC.

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE



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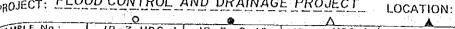


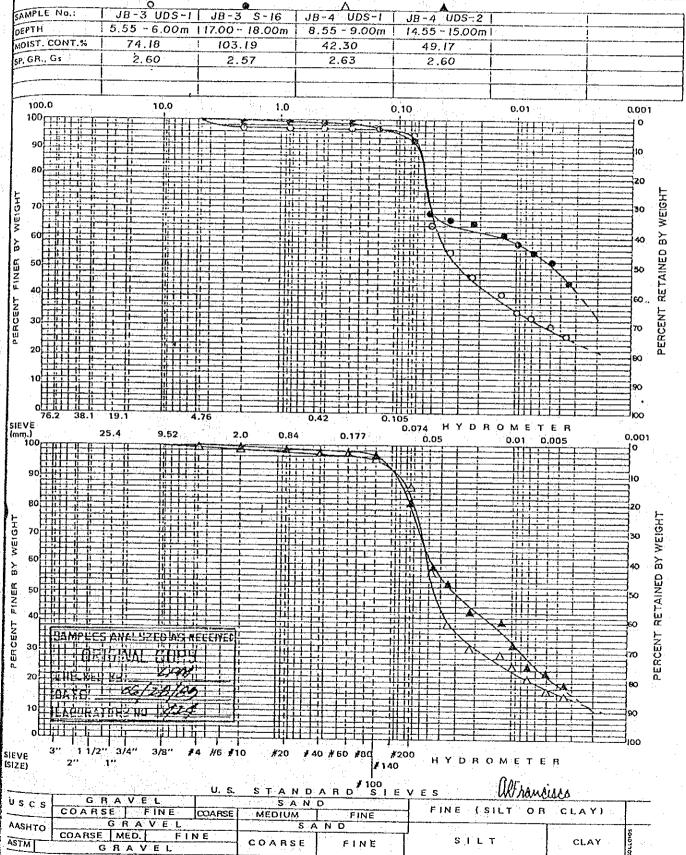
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TECHNOTEST, INC.

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE





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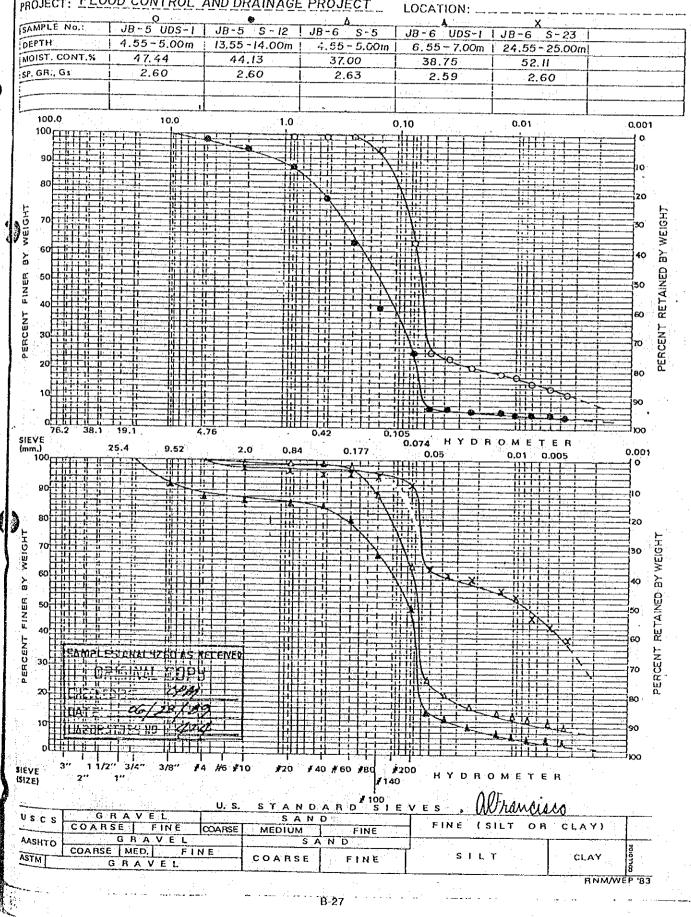
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TECHNOTEST, INC. SOIL TESTING LABORATORY '

893 EDSA, OUF.ZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT



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TECHNOTEST, INC. SOIL TESTING LABORATORY .

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE SIZE DISTRIBUTION CURVE PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT LOCATION: 0 JB-7 UDS-1 | 5,55-6.00m | • JB-7 S-15 JB-B UDS-I X S-17 SAMPLE No. JB-8 S-14 JB-8 DEPTH 16.55 - 17.00m | 5,55-6.00m 14.55-15.00ml 17.55 - 18.00m MOIST. CONT.% 30.70 46.65 31.55 38.62 26.38 SP. GR., Gs 2.57 2.62 2.59 2.61 2.64 100.0 10.0 1.0 0.10 0.01 0.001 0 hΠ; łi H Ť ίιo 80 . n i 20 MEIGHT BY WEIGHT 70 30 60 40 Σ tΤ PERCENT RETAINED FINER 50 Ť 50 60 PERCENT 30 τ'n 20 12 റ 1 61 90 off ihiti 0.105 19.1 100 0.42 SIEVE (mm.) HYDR OMETER 0.074 25.4 9.52 2.0 0.84 0.177 0.001 0.05 0.01 0.005 100 **T** 10 Ŧ TITAT TT 90. 10 1-11 ii: 臣 80 ji, 20 WEIGHT TF WEIGHT 70 30 tirri 60 ž łłł λ 40 RETAINED FINER 50 50 - 1 MS-40 ╎╴╎╴╎ 60 PERCENT SAMPLESTANAL SZELLAS FLLEVED PERCENT 30 70 20 80 10 90 3" 11/2" 3/4" 3/8" #4 #6 #10 2" 1" oti ╎┼┼╌┼╼┽ iinn 3" /20 #40 #80 #80 **#**200 SIEVE HYDROMETER 1" (SIZE) #140 STANDARD SIEVES MFrancies U. S, GRAVEL USCS SAND COARSE | FINE GRAVEL COARSE MED. F FINE (SILT: OR CLAY) COARSE FINE MEDIUM AASHTO N D Α FINE SILT ASTM CLAY COARSE FINE GRAVEL RNM/WEP 83

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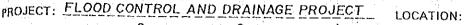
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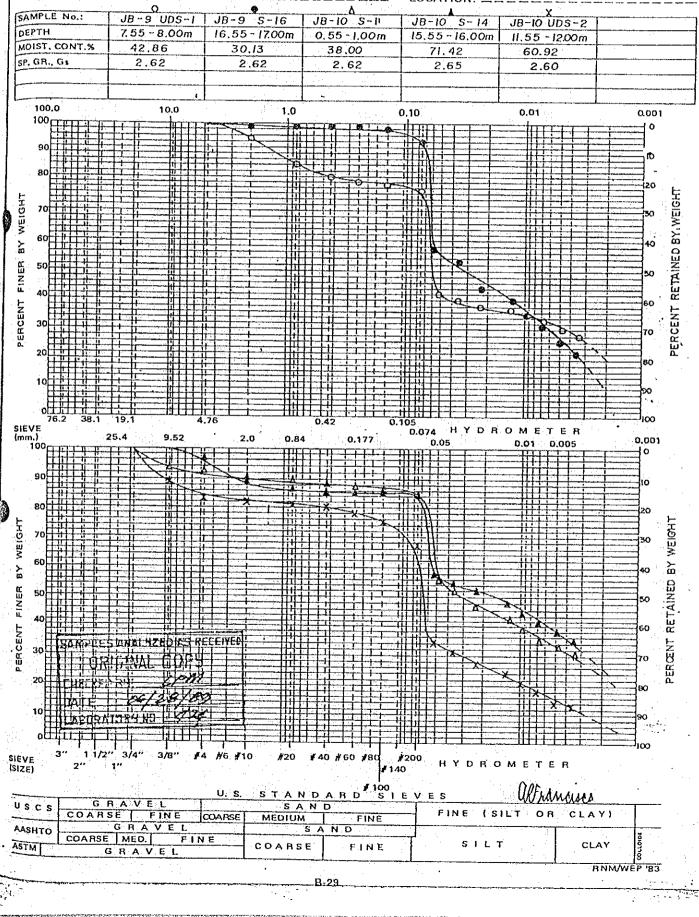
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TECHNOTEST, INC.

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE





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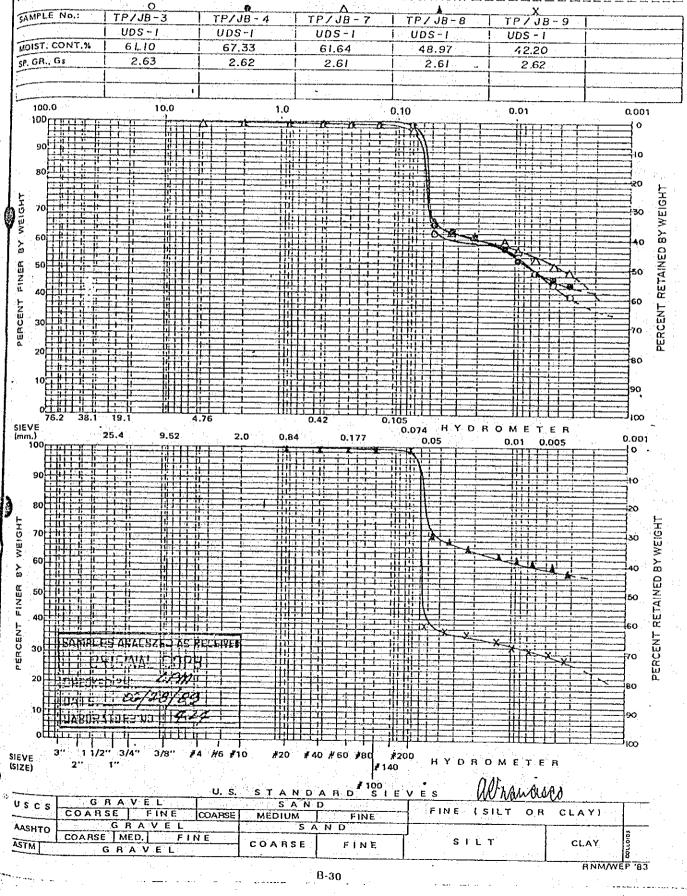
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TECHNOTEST, INC. SOIL TESTING LABORATORY

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT LOCATION:





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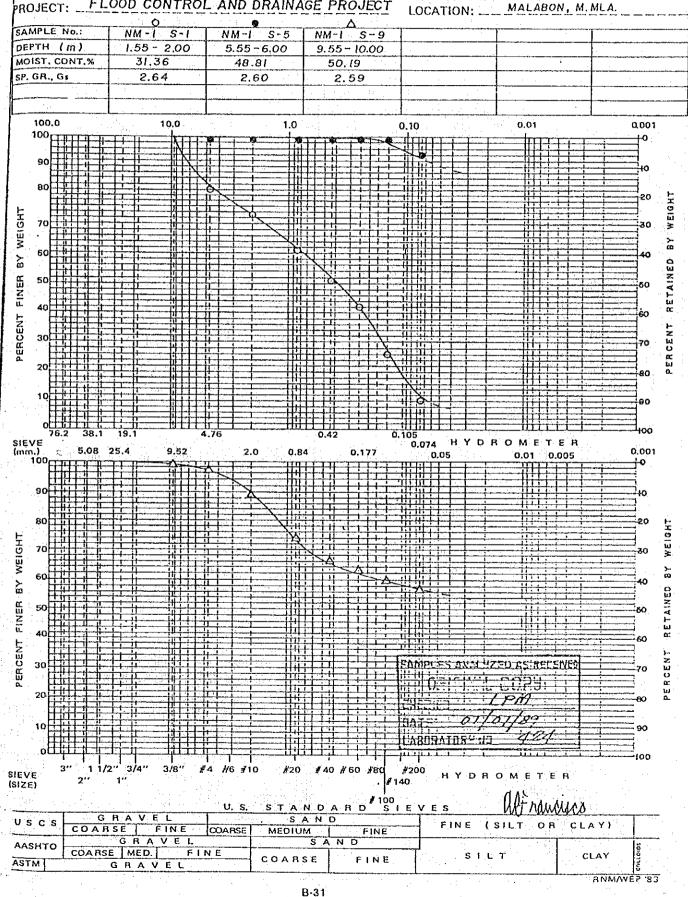
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TECHNOTEST, INC. SOIL TESTING LABORATORY

893 EDSA, QUEZON CITY, PHILIPPINES

PARTICLE-SIZE DISTRIBUTION CURVE FLOOD CONTROL AND DRAINAGE PROJECT

LOCATION: ____MALABON, M. MLA.

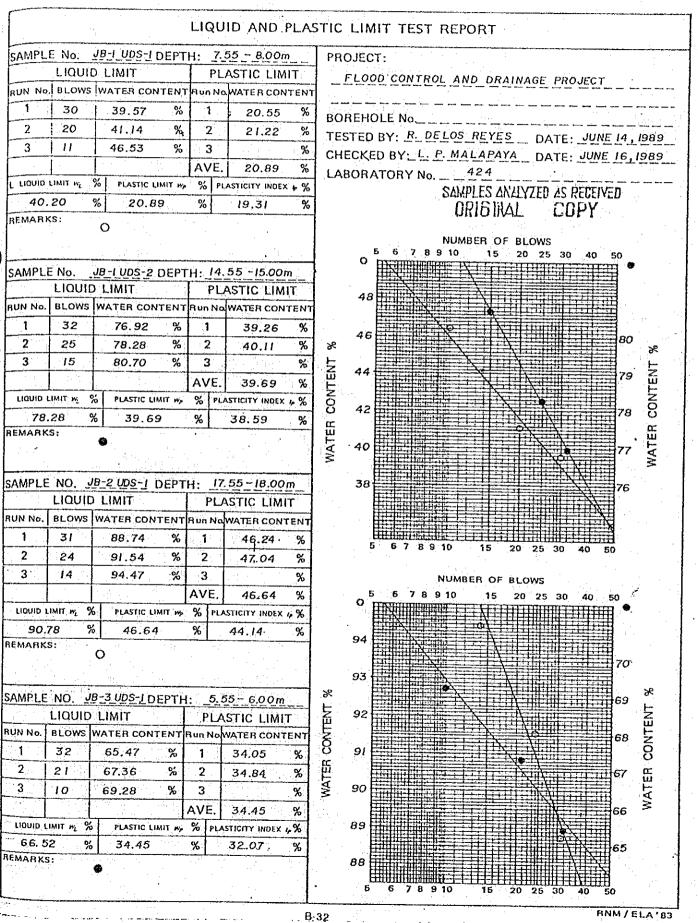


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TECHNOTEST, INC. SOIL TESTING LABORATORY 893 E. delos SANTOS AVENUE QUEZON CITY, PHILIPPINES



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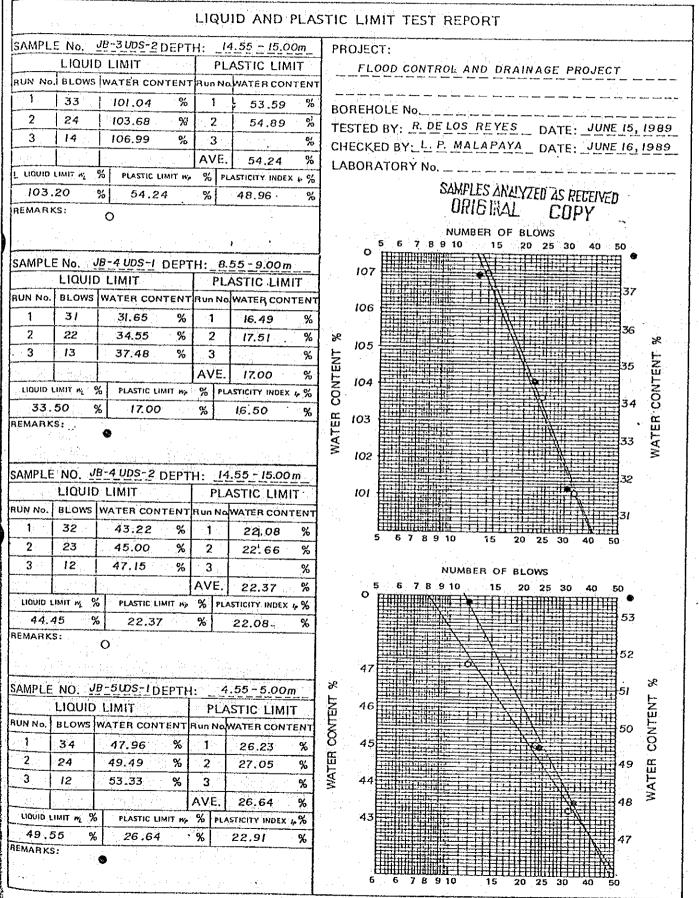
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TECHNOTEST, INC. SOIL TESTING LABORATORY. 293 E. delos SANTOS AVENUE QUEZON CITY, PHILIPPINES

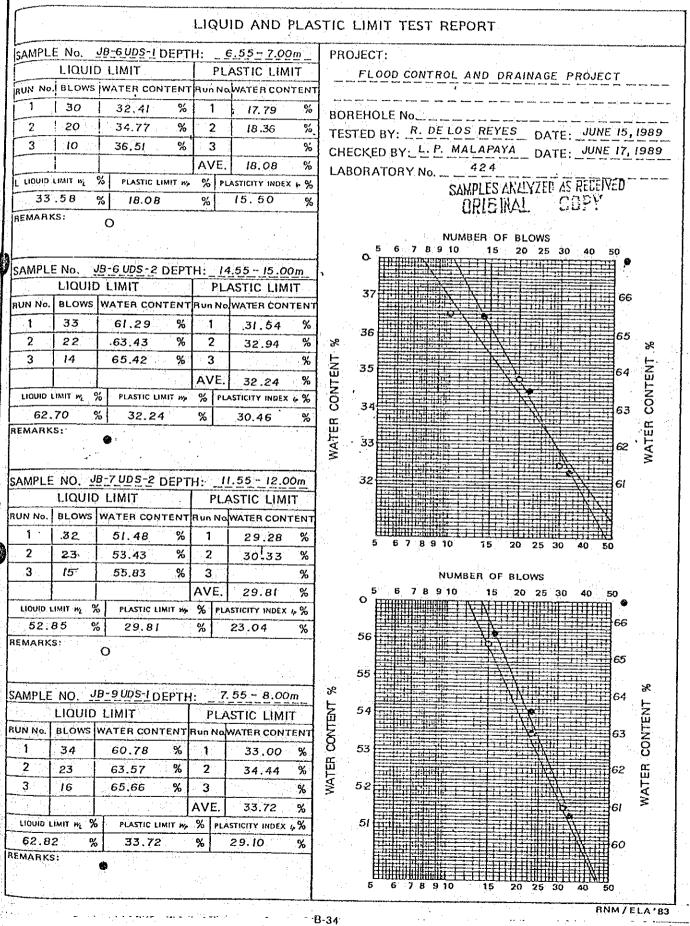


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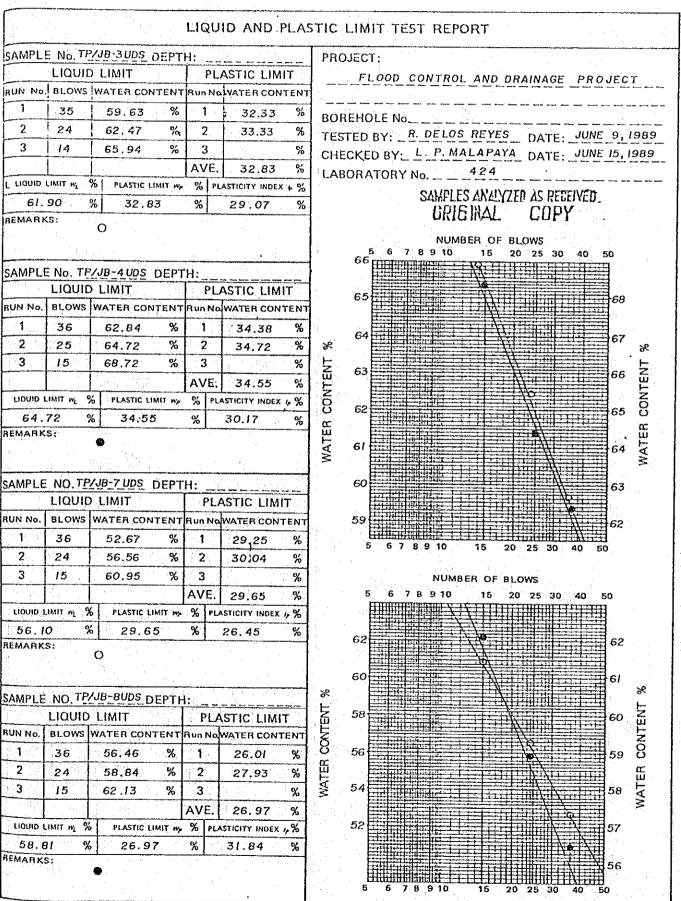
TECHNOTEST, INC.

SOIL TESTING LABORATORY 893 E. delos SANTOS AVENUE QUEZON CITY, PHILIPPINES



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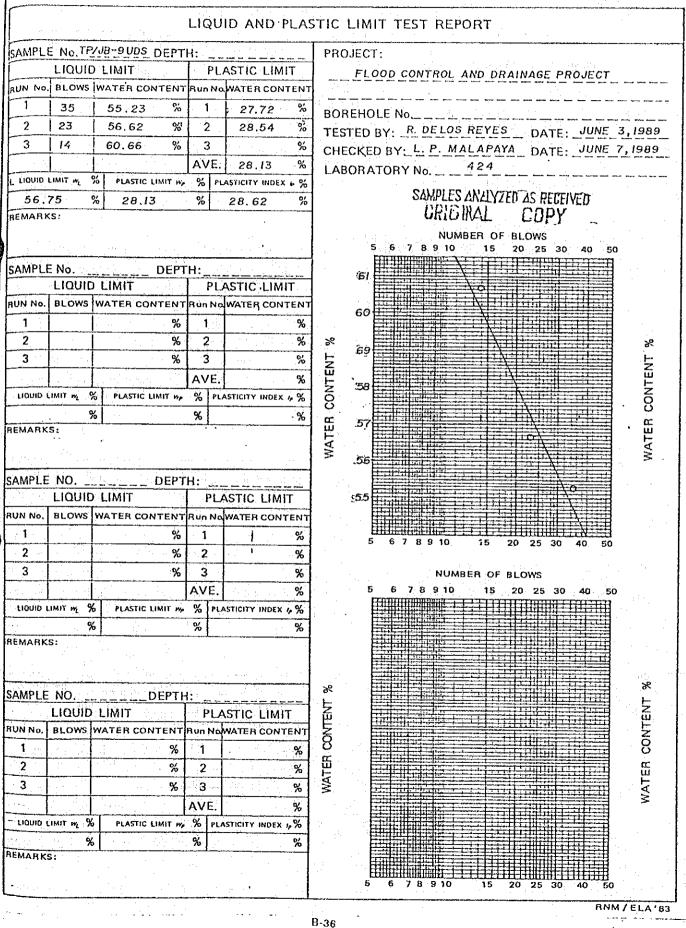


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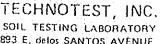
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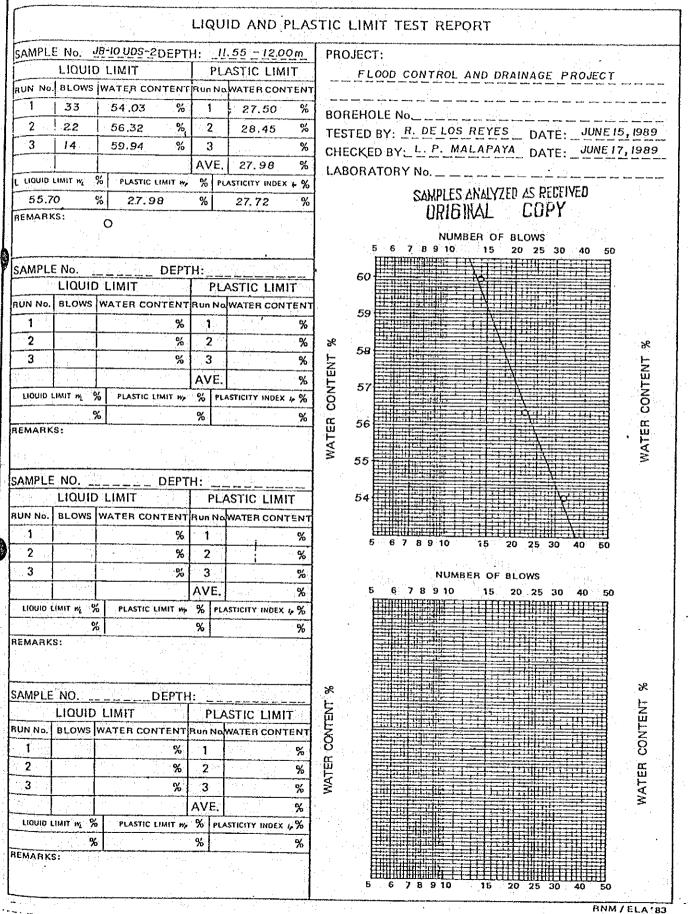




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893 E. delos SANTOS AVENUE QUEZON CITY, PHILIPPINES



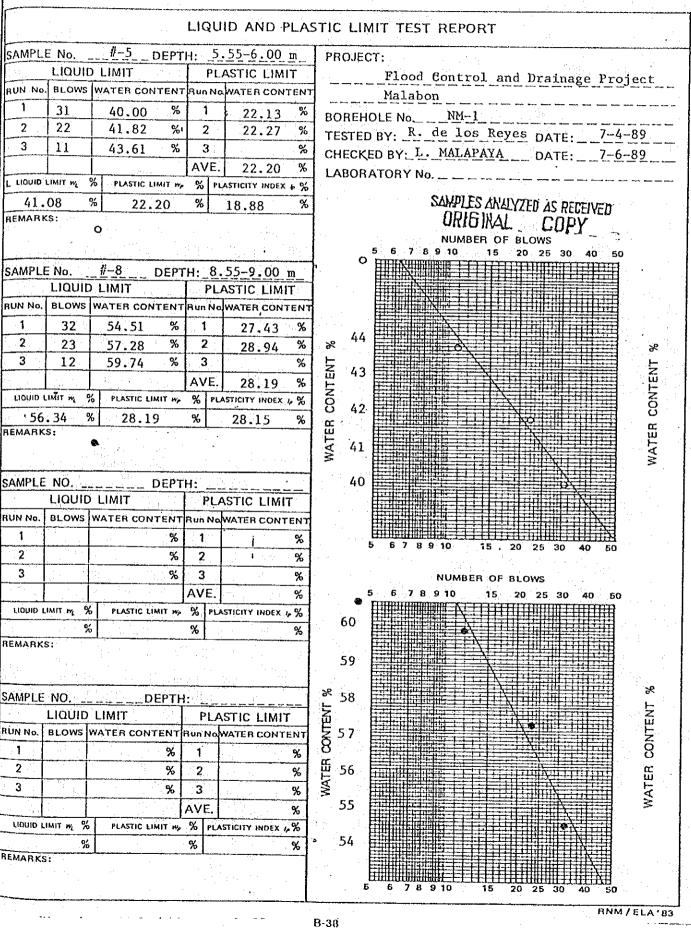
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TECHNOTEST, INC. SOIL TESTING LABORATORY 893 E. delos SANTOS AVENUE OUEZON CITY, PHILIPPINES



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		SAMPLES ANALS	ED AS RECEIVED
TECHNOTEST, INC.		CRIGINAL	СОРУ
SEL TESTING LABORATORY		CHECKED ?:	
SUEZON SITT. PHILIPPINES		DATE: DG/3	0/29
	• • • •	LABORATORY NO	424
SHRINK	AGE TIM	NT TEST	·····
		·	•
Flood Control and Drain	age Projec		
LOCATION:			
		SAMPLE No.	JB-3
Passing No. 40			· · · ·
finer of	1	DEPTH TEST	ED:
TESTED BY: LUZ SANTIAGO	•	•	-
LOZ SABILAGO //		DATE TESTE	<u>):</u> 6-29-89
ITEM			11
DESCRIPTION	UNIT	COMPUTATION	VALUES
I WT OF COATED DISH + WET SOIL			VALUES
2 WT. OF COATED DISH + DRY SOIL	<u> </u>		70.20
3. WT. OF COATED DISH			57.72
4 WT. OF DRY SOIL (Ws)			44.80
5 WT. OF WATER (Ww)		(2)-(3)	12.92
6 WATER CONTENT (Wo)		(1)-(2)	12.48
7 VOL OF WET SOIL (Vo)	⁰ /	(5) (4) X 100	96.59
8 VOL OF DRY SOIL (VI)		(18)	17.51
S SHRINKAGE RATIO (SR)			9.47
10 WT. OF SHRINKAGE DISH		(4)/(8)	1.36
11 WT. OF SHRINKAGE DISH + Hg	9	·	49.98
			536.08
12: WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SDIL CAKE	ū		· · · · · · · · · · · · · · · · · · ·
15 WT. OF HE REMOVED			407.95
14 VOL. OF DRY SOIL (V;)	· @	(11) - (12)	128.13
15 WT. OF SOIL CAKE DISH + Hg		(13)/13.53	9.47
16 WT. OF SOIL CAKE DISH	Q		281.44
17 WT. OF Hg	<u> </u>		44.58
IS VOL OF SHRINKAGE DISH (Vo)		(15) - (16)	236.86
		(17) / 13.53	17.51
		$(\varepsilon) - \frac{[(7) - (8)]}{[(7) - (8)]} \times 100$	
19 SHRINKAGE LIMIT (WS)	0/		34.36
		1	

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TECHNOTEST. INC.			ZED AS RECEIVED
SOL TESTING LABORATORY		CE'E'N'	
CANTER PER LOE LOS SANTES AVE.		CHECKED ALTER	LPM
		1071 i c. i	30/89
		LA2DRATERS N	<u>424</u>
SHRINKAG	E LI	MIT TEST	
RUJECT: Flood Control and Drainage P	rojeci	L	
OCATION:	·	SAMPLE No.	
Passing No. 40		JAMPLE NO.	JB-3 UDS-2
ESCRIPTION OF SOIL:		100000000000000000000000000000000000000	TD. 1/ FF 15 00
Atomer Con) 		ED: 14.55-15.00m
TESTED BY: LUZ SANTIAGO		DATE TESTE	. (
		DRIE TESTE	D: 6-29-89
	1		
DESCRIPTION	UNIT	COMPUTATION	VALUES
I WT. OF COATED DISH + WET SOIL	<u> </u>		70.22
2 WT. OF COATED DISH + DRY SOIL	g		58.09
3- WT OF COATED DISH	g		43.27
4 WT. OF DRY SOIL (Ws)	ā	(2)-(3)	14.82
5 WT. OF WATER (W.W.)	Q	(1)-(2)	12.13
6 WATER CONTENT (Wo)	0/ /0	, ⁽⁵⁾ /(4) X 100	81.85
7 VOL OF WET SOIL (Yo)	cc	(18)	17.51
8 VOL OF DRY SOIL (VI)	CC	(14)	11.77
S SHRINKAGE RATIO (SR)		(4) / (2)	1.26
O WT. OF SHRINKAGE DISH	9		49.98
II WT. OF SHRINKAGE DISH + Hg	<u> </u>		536.08
12 WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SDIL CAKE	. ġ		
5 WT. OF HE REMOVED		fan h	376.85
YOL OF DRY SOLL (Y)	g l	(11) (12)	159.23
5 WT. OF SOIL CAKE DISH + Hg		(13)/15.55	11.77
15 WT. OF SOIL CAKE DISH	g)	279.75
7 WT. OF Hg	9		42.89
S VOL OF SHRINKAGE DISH (Vo)		(15) — (16)	236.86
	C C	(17) / 13_53	17.51
9 SHRINKAGE LIMIT (W5)		$(5) - \frac{(7) - (8)}{2} \times 100$	
	10		43.12
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SAMPLES ANALYZED AS RECEIVED TECHNOTEST, INC. CRIGINAL COPY SOIL TESTING LABORATORY SOLE LESTING ELECTION AVE. 253 E.DE LOS SANTOS AVE. QUEZON CITY, PHILIPPINES CHECKED 2:5 LPM DATE: 06/30/89 LABORATORY NO SHRINKAGE LIMIT TEST PROJECT: Flood Control and Drainage Project LOCATION: SAMPLE No. JB-4 Passing No. 40 DESCRIPTION OF SOIL : DEPTH TESTED: Annti alm) LUZ SANTIAGO TESTED BY: DATE TESTED: 6-29-89 ITEM DESCRIPTION No. UNIT COMPUTATION VALUES WT. OF COATED DISH + WET SOIL 10 0 73.20 WT. OF COATED DISH + DRY SOIL 2 G 60.75 5 -WT. OF COATED DISH - Q 48.93 WT. OF DRY SOIL (WS) 4 đ (2) - (3)11.82 5 WT. OF WATER (Wy) Ğ (1) - (2)12.45 6. WATER CONTENT (Wo) % (5) (4) X 100 105.33 YOL OF WET SOIL (Yo) 7 CC (18) 17.51 VOL OF DRY SOIL (VI) 8 CC . . (14) 7.85 SHRINKAGE RATIO (SR) 5 <u>،</u> د (4) / (E) 1.51 WT. OF SHRINKAGE DISH 10 ٦ġ. 49.98 11 WT. OF SHRINKAGE DISH + Hg ġ 536.08 WT. OF SHRINKAGE DISH + Hg 12 AFTER SUBMERGING SOIL CAKE g 429.90 13 WT. OF Hy REMOVED a (11) - (12) 106.18 VOL. OF DRY- SOIL (Y ;) 14 CC (15)/15.55 7.85 WT. OF SOIL CAKE DISH + Hg 15 ō 11 285.37 15 WT. OF SOIL CAKE DISH Ģ 48.51 17 WT. OF Ho Ô. (15) - (16)236.86 ٠ŀ YOL OF SHRINKAGE DISH (Vo) 15 c c (17) / 13, 53 17.51 <u>[(7)-(8)]</u>×100 (8)-9 t SHRINKAGE LIMIT (W.) 23.60 % TTI LL ANIONIG

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TECHNOTEST, INC. SDIL TESTING LABORATORY SSI L. DE LOS SANTES AVE. QUEZON SITY, PHILIPPINES SHRINKAG PROJECT: Flood Control and Drainage		CELEINA CHECHED DATE: 06/ LABORATORY N MIT TESI	LPM 30/89
LOCATION:		SAMPLE No.	JB-6 UDS-1
Passing No. 40 DESCRIPTION OF SOIL:		DEPTH TEST	ED: 6.55-7.00 m
TESTED EY: LUZ SANTIAGO		DATE TESTE	
			<u>-</u>
No. DESCRIPTION	דואט	COMPUTATION	VALUES
1 WT. OF CDATED DISH + WET SOIL	Ō	1	75.80
2 WT. OF COATED DISH + DRY SOIL	· g		66.06
3. WT. OF COATED DISH	g		44.47
4 WT. OF DRY SDIL (Ws)	ā	(2) - (3)	21.59
5 WT. OF WATER (Wy)	ġ	(1)-(2)	9.74
6 WATER CONTENT (Wo)	%	(5) (4) X 100	45.11
7 VOL OF WET SOIL (Yo) -	CC	.(18)	17.51
8 VOL OF DRY SOIL (V1)	CC		15.33
S SHRINKAGE RATIO (SR)	1.0	(4)/(E)	1.41
10 WT. OF- SHRINKAGE DISH	g		49.98
1) WT. OF SHRINKAGE DISH + Hg	<u>q</u>		536.08
12. WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE	. <u>o</u>		328.70
15 WT. OF HS REMOVED	9	(11) - (12)	
14 VOL. OF DRY SOIL (V ;)		(15)/13.25	207.38
15 WT. OF SOLL CAKE DISH + Hg	0	(137713,25	15.33
16 WT. OF SOIL CAKE DISH			282.93
17 WT. OF Hg		L(5) = L(5)	46.07
IS VOL OF SHRINKAGE DISH (Vo)	c c c c	(15) - (15)	236.86
	1 6 6 1	(17) / 13.55	17.51
19 SHRINKAGE LIMIT (WS)	0/ /0	$001 \times \left[\frac{(3) - (7)}{2}\right] \times \frac{(3)}{2}$	35.01

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TECHNOTEST INC			ZED AS RECEIVED
SDIL TESTING LABORATORY		ORIGINA	LCUMY
DUELON CITY, PHELIPPINES		CHECKED 25	30/89
			······································
SHRINKA	~~	LABORATORY N	1
	100 A. 100 A		•
PROJECT: Flood Control and Drain	age Proje	ct	• •
LOCATION:	- -	SAMPLE NO.	JB-7
Passing No. 40		1	· · · · · · · · · · · · · · · · · · ·
Annes age	1	I DEPTH TEST	ED:
TESTED BY: LUZ SANTIAGO		•	•
JUL DE DAMITIANY		DATE TESTED	: 6-29-89
	•		
DESCRIPTION	דואט	COMPUTATION	
I WT. OF CATED DISH + WET SOIL		COM, OTATION	VALUES
2 WT. OF COATED DISH + DRY SOIL	ē	1	68.45
3. WT. OF COATED DISH	<u> </u>		56.64
4 WT. OF DRY SOIL (WS)	<u> </u>		42.44
5 WT. OF WATER (Ww)	<u> </u>	(2)-(3)	
	- G :		14.20
6 WATER CONTENT (Wa)		(1)-(2)	14.20
1		(5) (4) X 100	
7 VOL. OF WET SOIL (Yo)		(18)	11.81
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (VI)		(14) X 100	11.81 83.17
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (V1) 9 SHRINKAGE RATIO (SR)		(18)	11.81 83.17 17.51 8.96 1.58
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF. SHRINKAGE DISH	% CC CC 4	(14) X 100 (18) (14) (4) / (E)	11.81 83.17 17.51 8.96 1.58 49.98
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (VI) 9 SHRINKAGE RATIO (SR) 10 WT. OF. SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg		(14) X 100	11.81 83.17 17.51 8.96 1.58
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF. SHRINKAGE DISH	% CC CC 4	(14) X 100 (18) (14) (4) / (E)	11.81 83.17 17.51 8.96 1.58 49.98 536.08
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF. SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12: WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE	% CC CC 9 9 9 9	(14) X 100 (18) (14) (4) / (2)	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90
7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH 12 WT. OF SHRINKAGE DISH + Hg 12 WT. OF SHRINKAGE DISH + Hg 13 WT. OF Hg REMOVED	% CC CC 9 9 9 9	$(5)/(4) \times 100$ (18) (14) $(4)/(E)$ $(11) - (12)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18
 7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12. WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE 15 WT. OF Hg REMOVED 14 VOL: OF DRY SOIL (Vf) 	% CC CC 9 9 9 CC	(14) X 100 (18) (14) (4) / (2)	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96
 7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 1 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12 WT. OF SHRINKAGE DISH + Hg 13 WT. OF SHRINKAGE DISH + Hg 14 VOL: OF DRY SOIL (Vf) 15 WT. OF SOIL CAKE DISH + Hg 	% CC CC 9 1 9 1 9 1 1	$(5)/(4) \times 100$ (18) (14) $(4)/(E)$ $(11) - (12)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95
 7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12. WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE 15 WT. OF Hg REMOVED 14 VOL: OF DRY SOIL (Vf) 15 WT. OF SOIL CAKE DISH + Hg 16 WT. OF SOIL CAKE DISH 	% % CC CC Q Q Q CC Q <	(11) - (12)	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95 42.09
7VOL. OF WET SOIL (Vo)8VOL. OF DRY SOIL (Vf)9SHRINKAGE RATIO (SR)10WT. OF SHRINKAGE DISH11WT. OF SHRINKAGE DISH12WT. OF SHRINKAGE DISH + Hg12AFTER SUBMERGING SOIL CAKE15WT. OF Hg REMOVED14VOL. OF DRY SOIL (Vf)15WT. OF SOIL CAKE DISH + Hg16WT. OF SOIL CAKE DISH17WT. OF Hg	% CC CC 9 9 9 9 2 9 2 9 9	$(15)/(4) \times 100$ (18) (14) (14) $(14)/(12)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95 42.09 236.86
 7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12. WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE 15 WT. OF Hg REMOVED 14 VOL: OF DRY SOIL (Vf) 15 WT. OF SOIL CAKE DISH + Hg 16 WT. OF SOIL CAKE DISH 	% % CC CC Q Q Q CC Q <	(11) - (12) $(15) - (16)$ $(17) / (2.53)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95 42.09
 7 VOL. OF WET SOIL (Vo) 8 VOL. OF DRY SOIL (Vf) 9 SHRINKAGE RATIO (SR) 10 WT. OF SHRINKAGE DISH 11 WT. OF SHRINKAGE DISH + Hg 12 WT. OF SHRINKAGE DISH + Hg 14 AFTER SUBMERGING SOIL CAKE 15 WT. OF Hg REMOVED 14 VOL: OF DRY SOIL (Vf) 15 WT. OF SOIL CAKE DISH + Hg 16 WT. OF SOIL CAKE DISH + Hg 16 WT. OF SOIL CAKE DISH 17 WT. OF Hg 	% CC CC 9 9 9 9 2 9 2 9 9	$(15)/(4) \times 100$ (18) (14) (14) $(14)/(12)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$ $(15)/(12.55)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95 42.09 236.86 17.51
7VOL. OF WET SOIL (Vo)8VOL. OF DRY SOIL (Vf)9SHRINKAGE RATIO (SR)10WT. OF SHRINKAGE DISH11WT. OF SHRINKAGE DISH12WT. OF SHRINKAGE DISH + Hg12AFTER SUBMERGING SOIL CAKE15WT. OF Hg REMOVED14VOL. OF DRY SOIL (Vf)15WT. OF SOIL CAKE DISH + Hg16WT. OF SOIL CAKE DISH17WT. OF Hg	% CC CC 9 9 9 9 2 9 2 9 9	$(5)/(4) \times 100$ (18) (14) $(4)/(8)$ $(11) - (12)$ $(15)/(5.55)$ $(15)/(5.55)$ $(15)/(15.55)$ $(17)/(15.55)$ $(17)/(15.55)$	11.81 83.17 17.51 8.96 1.58 49.98 536.08 414.90 121.18 8.96 278.95 42.09 236.86

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TECHNOTEST, INC. SGIL 'TESTING LADDRATORY BES L. DE LOS BANYOS AVE. DUEZOR SITY, PHILIPPINES 1	- 	SAMPLES ANAL	
AND		CRIF!NA	
		CHELSE DATE:	LPM (30/89
SHRINKAGE		MIT TES LABORATORY	10
PROJECT: Flood Control and Drainage P	roied	it i	
LOCATION:			
		SAMPLE No.	JB-7 UDS-
Passing No. 40			
(Hambach)	<u>-</u>	I DEPTH TEST	ED: 11.55-1
TESTED BY: LUZ SANTIAGO	÷	DATE TESTE	6-29-89
	UNIT	COMPUTATION	VALUE
I WT, OF COATED DISH + WET SOIL	ā	· · · · · · · · · · · · · · · · · · ·	1 74.67
	g		62.87
3. WT. OF COATED DISH	G		46.43
4 WT. OF DRY SOIL (Ws)	₫	(2)-(3)	16.44
5 WT. OF WATER (Ww)	Ō	(1)-(2)	11.80
6 WATER CONTENT (Wo)	0/ /0	(5) (4) X 100	71.78
7 VOL. OF WET SOIL (Ya)	cc	(18)	17.51
8 VOL OF DRY SOIL (VI)	CC	- (14)	12.81
S SHRINKAGE RATIO (SR)		(4)/(E)	1.28
ID WT. OF. SHRINKAGE DISH	g	-	49.98
11 WT. OF SHRINKAGE DISH + Hg	ġ	ſ	536.08
12 WT. OF SHRINKAGE DISH + Hg	. g		
15 WT. OF Hg REMOVED			362.72
IF VOL. OF DRY SOIL (V;)	9	. (11) (12)	173.36
15 WT. OF SOIL CAKE DISH + Hg	CC	(15)/18.55	12.81
16 WT. OF SOIL CAKE DISH	0		282.93
17 WT. OF Hg	<u><u></u><u></u><u></u><u></u><u></u></u>		46.07
IS VOL OF SUPINYACE DIST (V)	<u>0</u> ((15) - (16)	236.86
	CC	(17) / 15.55	17.51
19 SHRINKAGE LIMIT (W ₃)	61 10	$(6) - \left[\left(\begin{array}{c} 7 \end{array} \right) - \left(\begin{array}{c} 8 \end{array} \right) \right] \times 100$	43.19

••

TECHNOTEST, INC. SAMPLES ANALYZED AS RECEIVED SUL TESTING LABORATORY 253 E. DE LOS SANTOS JVE. 153 DE LOS SANTOS JVE. DRIFINAL COPH LPM CHECKENSON DATE: 06/30/89 LABORATORY NO 424 SHRINKAGE LIMIT TEST Flood Control and Drainage Project PROJECT: LOCATION: SAMPLE No. JB-8 Passing No. 40 DESCRIPTION OF SOIL : N DEFTH TESTED: 0.5-1.00 m Auntice TESTED BY: UZ SANTZAGO DATE TESTED: 6-29-89 ITEM DESCRIPTION UNIT No: COMPUTATION VALUES 4 WT. OF COATED DISH + WET SOIL a 72.90 2 WT. OF COATED DISH + DRY SOIL C 58.40 3. - | WT. OF COATED DISH g 45.74 4 WT. OF DRY SOIL (WS) g (2) - (3)12.66 WT. OF WATER (Ww) 5 Q (1) - (2)14.50 WATER CONTENT (Wa) 6 1 % (5)/(4) X 100 114.53 7 VOL. OF WET SOIL (Yo) CC .(18) .. 17.51 VOL OF DRY SOIL (VI) 8 сç (14) 7:77 9 SHRINKAGE RATIO (SR) Ĩ 1 (4) / (B)1.63 10 WT. OF SHRINKAGE DISH g 49.98 WT. OF SHRINKAGE DISH + Hg 11 g ţ 536.08 WT. OF SHRINKAGE DISH + Hg 12 AFTER SUBMERGING SOIL CAKE Ō 431.00 15 WT OF HE REMOVED õ (11) - (12)105.08 VOL OF DRY SOIL (V.) 14 CC. (15)/15.55 7.77 WT. OF SOIL CAKE DISH + Hg 15 Ū . 282.29 15 WT. OF SOIL CAKE DISH ġ 45.43 17 WT. OF Hg Õ (15) - (16) 236.86 15 VOL. OF SHRINKAGE DISH (Vo) cc (17) / 13.55 17.51 $\frac{\left\lceil (7) - (2) \right\rceil}{4} \times 100$ (6) 19 SHRINKAGE LIMIT (W.s) % 37.59 TTI LL ANTONIC

B-45

			andra Angeleria (States) Angeleria (States)
TECHNOTEST, INC. JOL "ESTING LABORATORY 283 L. DE LOS SANTOS JUE DUELON DITY, MILIPPINES SHRINKAS	SE LI		LDPY LPM o/BB
Flood Control and Drain		÷	
LOCATION:		SAMPLE No.	JB-9
Passing No. 40		· · · · · · · · · · · · · · · · · · ·	en e
VF//,	<u>'ı</u>	DEPTH TEST	ED: 0.5-1.00 m
TESTED EY: LUZ SANTIAGO		DATE TESTE	o: 6-29-89
DESCRIPTION	טאוד	COMPUTATION	VALUES
I WT. OF CATED DISH + WET SOIL	a la des		71.00
2 WT. OF COATED DISH + DRY SOIL	<u> </u>		
3- WT. OF COATED DISH	. g		58.42 44.34
4 WT. OF. DRY SDIL (WS)	g	(2)-(3)	
5 WT. OF WATER (Ww)	0	(1)-(2)	<u>14.08</u> 12.58
6 WATER CONTENT (Wa)	0/	(5) (4) X 100	89.35
7 VOL. OF WET SOIL (Vo)	cc	. (18)	17.51
8 VOL OF DRY SOIL (VI)	CC	(14)	7.66
SHRINKAGE RATIO (SR)		(4)/(8)	1.84
10 WT. OF. SHRINKAGE DISH	9		49.98
II WT. OF SHRINKAGE DISH + Hg	<u> </u>		536.08
12. WT. OF SHRINKAGE DISH + Hg AFTER SUBMERGING SOIL CAKE	ō		432.50
13 WT. DE HE REMOVED	<u>o</u>	. (11) - (12)	······································
14 VOL. OF DRY SOIL (V f)		(15)/13.55	103.58
15 WT. OF SOIL CAKE DISH + Hg	Ō	1 1	7.66
IS WT. OF SOIL CAKE DISH	2		280.82
17 WT. OF Hg	0	(15) - (16)	43.96
IS YOL. OF SHEINKAGE DISH (Yo)	c:	(17) / 15.53	236.86
	<u> </u>	•	17.51
19 SHRINKAGE LIMIT (W _s)	0/ /0	$(a) \times \left[\frac{(7) - (3)}{2} \right] - (a)$	19.39

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B-46

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	· · ·	SAMPLES ANAL	SZED AS RECEIVED
TECHNOTEST, INC.		CEIGINA	
JOIL TESTING LAPORATORY		CHEINE	LPM
STATES OUEZON SITY , PHILIPPINES		DATE: 06	the second se
	· · ·	LABORLTORY N	
SHRTNKA	GF IN		·
Reject: Flood Control and Drainag	ge Proje	ct	
SCATION:		· · · ·	
	· · · · · · · · · · · · · · · · · · ·	SAMPLE No.	JB-9 UDS-1
Passing No. 40			n in the second seco
Hailiago		DEPTH TEST	ED: 7.55-8.00 m
ESTED BY: LUZ SANTIAGO		-	6 20 20
· · · · · · · · · · · · · · · · · · ·		DATE TESTE	o: 6-29-89
••••••••••••••••••••••••••••••••••••••			
IN COMPANY	1 1		· · · ·
DESCRIPTION	UNIT	COMPUTATION	VALUES
WT. OF COATED DISH + WET SOIL	<u> <u>q</u> </u>		
WT. OF COATED DISH + DRY SOIL			1 73.48 61.07
WT. OF COATED DISH	I g	······	
WT. OF DRY SOIL (WS)	j g j	(2)-(3)	48.58
WT. OF WATER (Ww)		(1)-(2)	12.43
WATER CONTENT (Wa)	<u> </u>	, ⁽⁵⁾ /(4) X 100	99.36
VOL. OF WET SOIL (Yo)	CC	(18) .	17.51
VOL OF DRY SOIL (VI)		• (14)	
SHRINKAGE RATIO (SR)	1 1	(4) / (2)	7.43
WT. OF. SHRINKAGE DISH	9		1.68
WT. OF SHRINKAGE DISH + Hg	<u> g </u>		536.08
WT. OF SHRINKAGE DISH + Hg	i 1	•	
AFTER SUBMERGING SOIL CAKE	<u> </u>		435.61
WT. OF HE REMOVED	ā	(11) - (12)	100.47
VOL. OF DRY SOIL (Y ;)	CC	(13)/13.55	7.43
WT. OF SOIL CAKE DISH + Hg	Ō	3	284.04
WT. OF SOIL CAKE DISH	<u> </u>		47.18
WT. OF Hg	l õ l	(15) - (16)	236.86
VOL OF SHRINKAGE DISH (Vo)	cc	(17) / 13.53	17.51
		(-) [(7)-(8)]	. / , J k
SERINKAGE LIMIT (W3)		(E) - (18.66
	97 70		
			the second se

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B-47

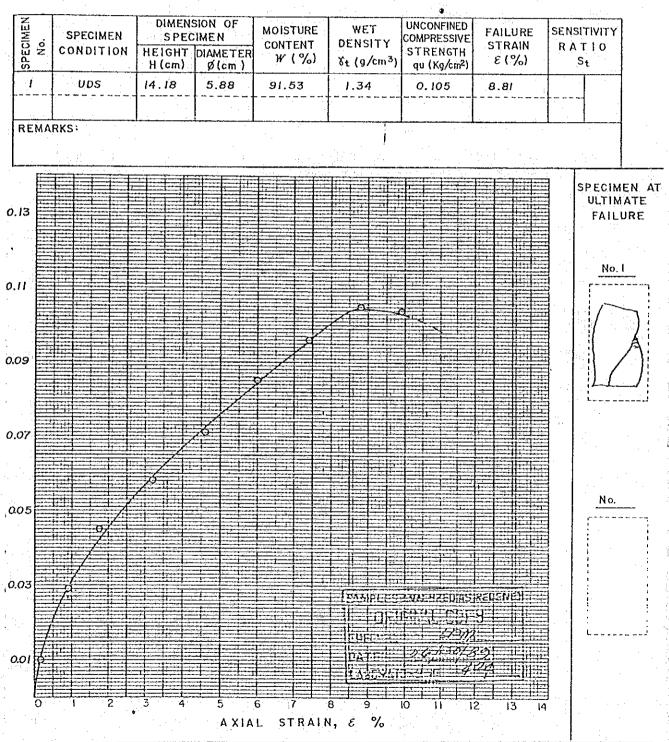
			. F-
/ TECHNOTEST, INC.		SAMPLES ANAL	SZED AS RECEIVED
JOIL TESTING LABORATORY	1	OF/FINI	L COPY
ANTE DESIGN OF COME OF ANY DE SVE			LPM
		DATE: 06/	130/89
SHRINKA	27 H H	LAPERATERS	NG <u>424</u>
			•
PROJECT: Flood Control and Drain	age Pro	ject	
LOCATION:			
		SAMPLE No.	JB-10 UDS-2
Passing NO. 40			
A Trank	<u> </u>	DEPTH TEST	ΞD:11.55-12.00m
TESTED EY: LUZ SANTIAGO		•	•
	: 	DATE TESTES	2: 6-29-89
ITEX	<u> </u>		
No. DESCRIPTION	UNIT	COMPUTATION	VALUES
1 WT. OF COATED DISH + WET SOIL			
2 WT. OF COATED DISH + ORY SOIL			75.63
3- WT. OF COATED DISH			64.77
4 WT. OF DRY SOIL (Ws)	<u> </u>	(2)-(3)	49.30
5 WT. OF WATER (Ww)		(1)-(2)	15.47
6 WATER CONTENT (Wo)	1 1/2 1/2	(5)/(4) X 100	10.86
7 VOL. OF WET SOIL (Vo)	CC	(18)	70.20
8 VOL OF DRY SOIL (V1)		(14)	<u> </u>
S SHRINKAGE RATIO (SR)	1 1	(4)/(8)	
10 WT. OF. SHRINKAGE DISH			1.32
II WT. OF SHRINKAGE DISH + Hg	1 0 1		536.08
12. WT. OF SHRINKAGE DISH + Hg	j		
AFTER SUBMERGING SOIL CAKE	Õ		377.20
15 WT. OF HG REMOVED	9	. ()1) - (12)	158.88
14 VOL OF DRY SOIL (Vf)	cc	(13)/13.55	11.74
15 WT. OF SOIL CAKE DISH + Hg	Ō		282.81
16 WT. OF SOIL CAKE DISH	<u>ā</u>	•	45.95
17 WT, OF Hg	<u>c</u> i	(15) - (16)	236.86
	cc	(17) / 13.53	17.51
15 YOL. OF SHRINKAGE DISH (Vo)			the second se
15 VOL OF SHRINKAGE DISH (Vo)	<u> </u>	(-1) [(7) - (8)] = 1	
		$(\varepsilon) - \frac{(7) - (2)}{2} \times 100$	32,90
	°/	$(\varepsilon) = \left[\begin{pmatrix} (7) - (\varepsilon) \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $	32,90

- B-48



UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 27, 1989 BOREHOLE No: JB-1 UDS-2 DEPTH: 14.55 - 15.00m TESTED BY: R WAILARE



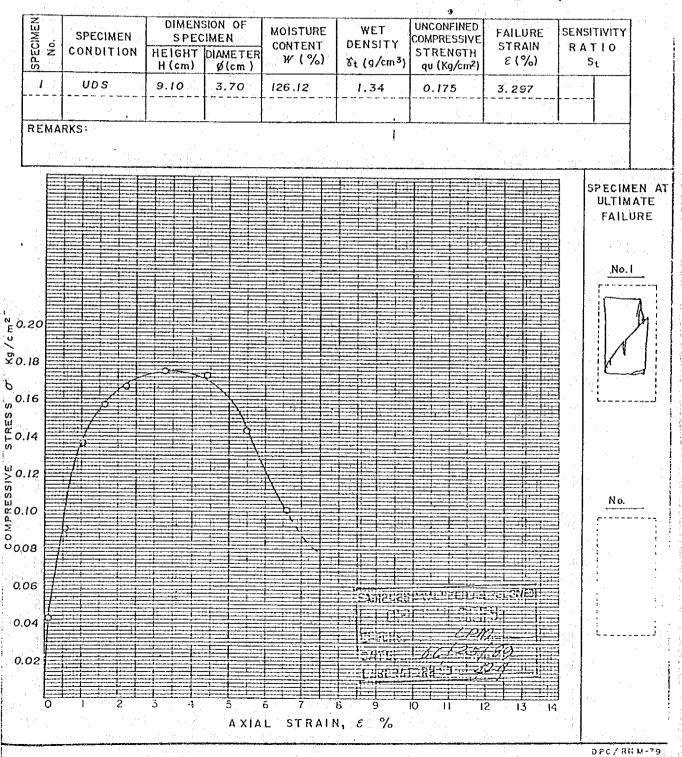
DPC/RNM-79

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UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 21, 1989 BOREHOLE No: JB-2 UDS-1 DEPTH: 17.55 - 18.00m TESTED BY: R. MALLARE

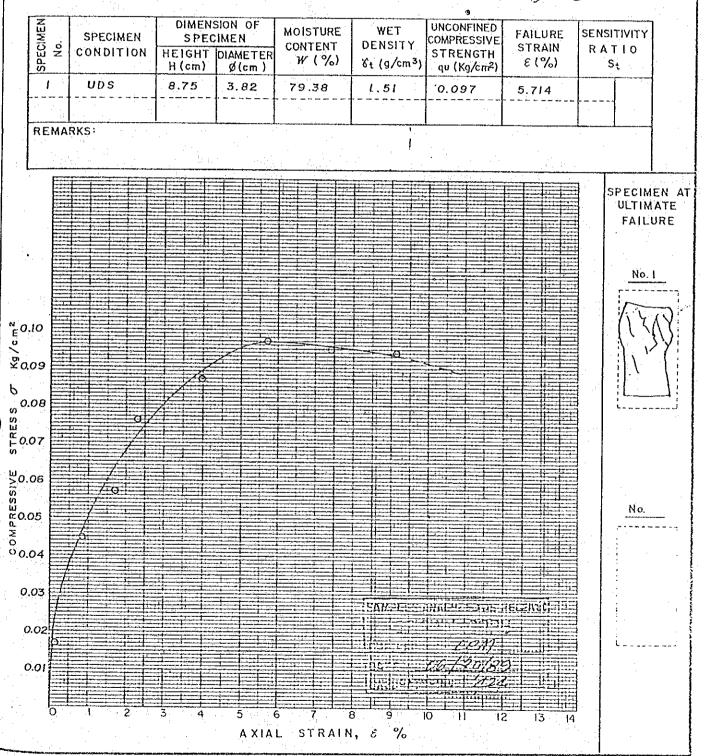


G - 2



UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 16, 1989 BOREHOLE No: JB-3 UDS-1 DEPTH: 5.55-6.00m TESTED BY: R/MALIARE



G-3

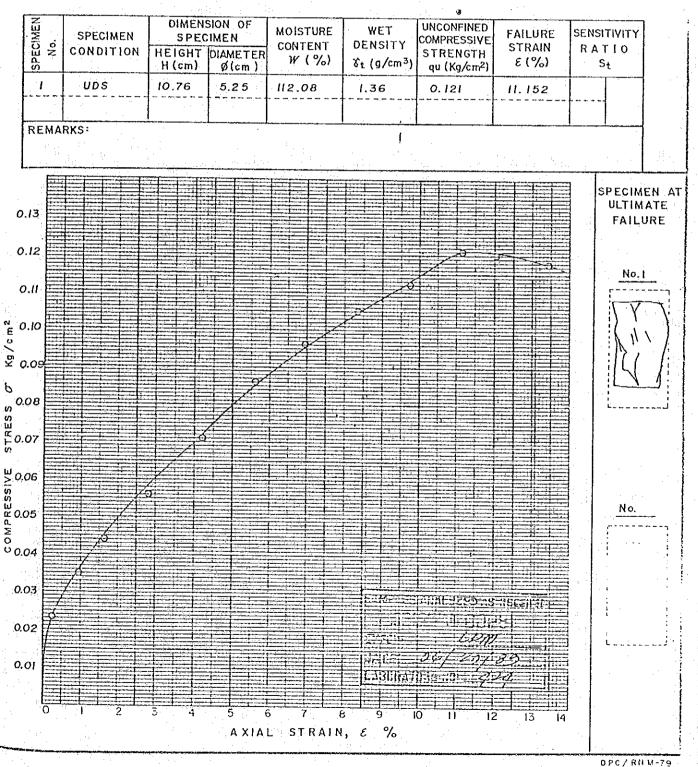
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UNCONFINED COMPRESSION TEST REPORT

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PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 16, 1989 BOREHOLE No: JB-3 UDS-2 DEPTH: 14.55-15.00m TESTED BY: R/JALLARE



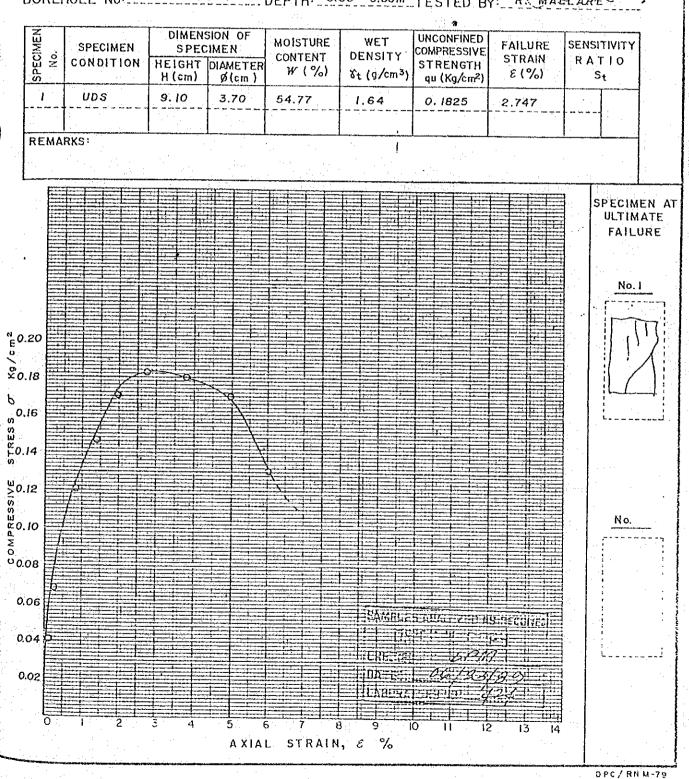
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G - 6



UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 21, 1989 BOREHOLE No: JB-4 UDS-1 DEPTH: 8.55 - 9.00m TESTED BY: R. MALLARE

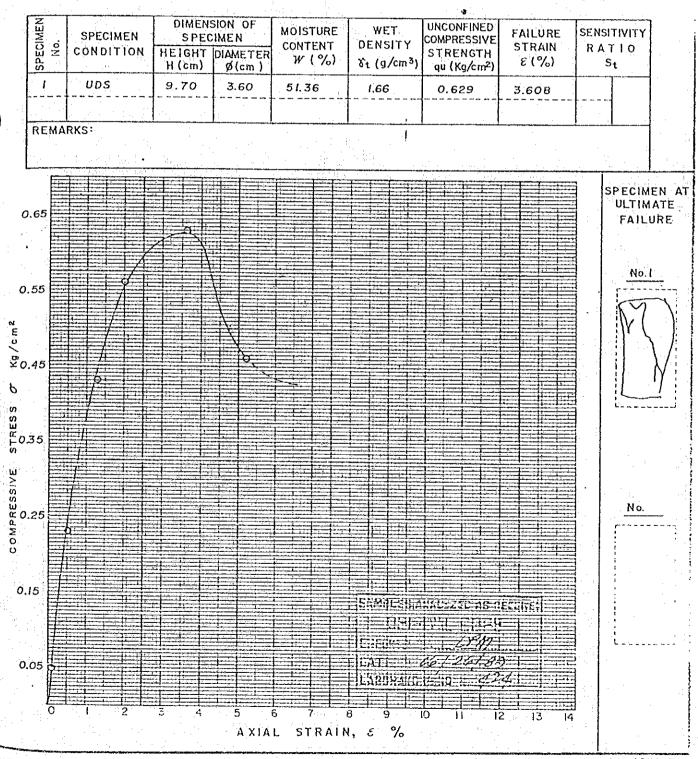


G - 5



UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 20, 1989 BOREHOLE No: JB-5 UDS-1 DEPTH: 4.55-5.00m_TESTED BY: R. WALLABET Harry



B-54

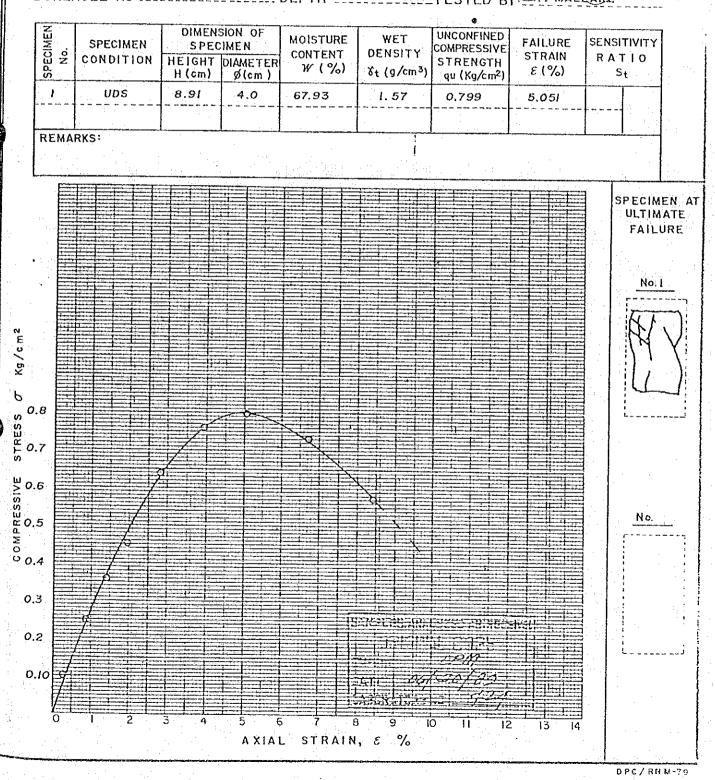
OPC/RIN-79



UNCONFINED COMPRESSION TEST REPORT

G - 7

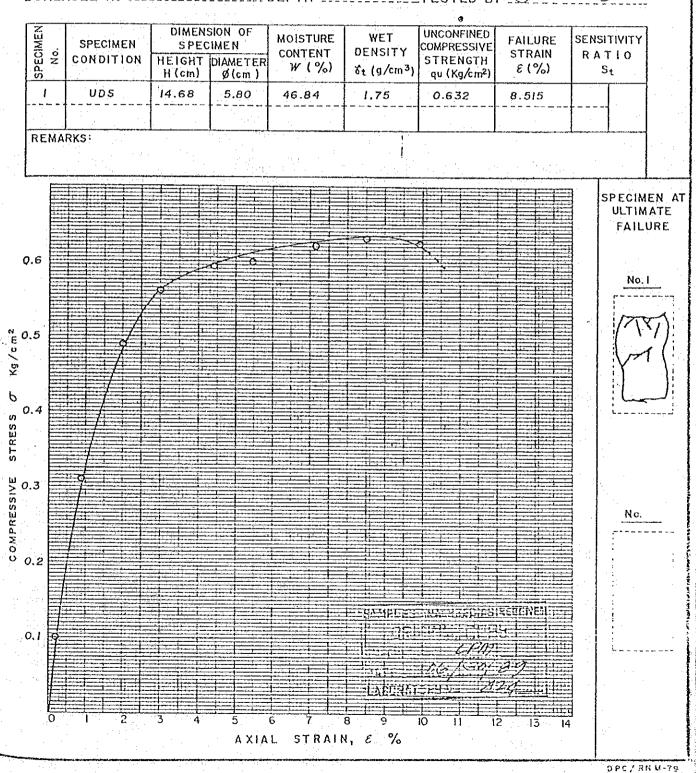
PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 27, 1989 BOREHOLE No: JB-6 UDS-2 DEPTH: 14.55-15.00m TESTED BY R. MALLARE COLLING



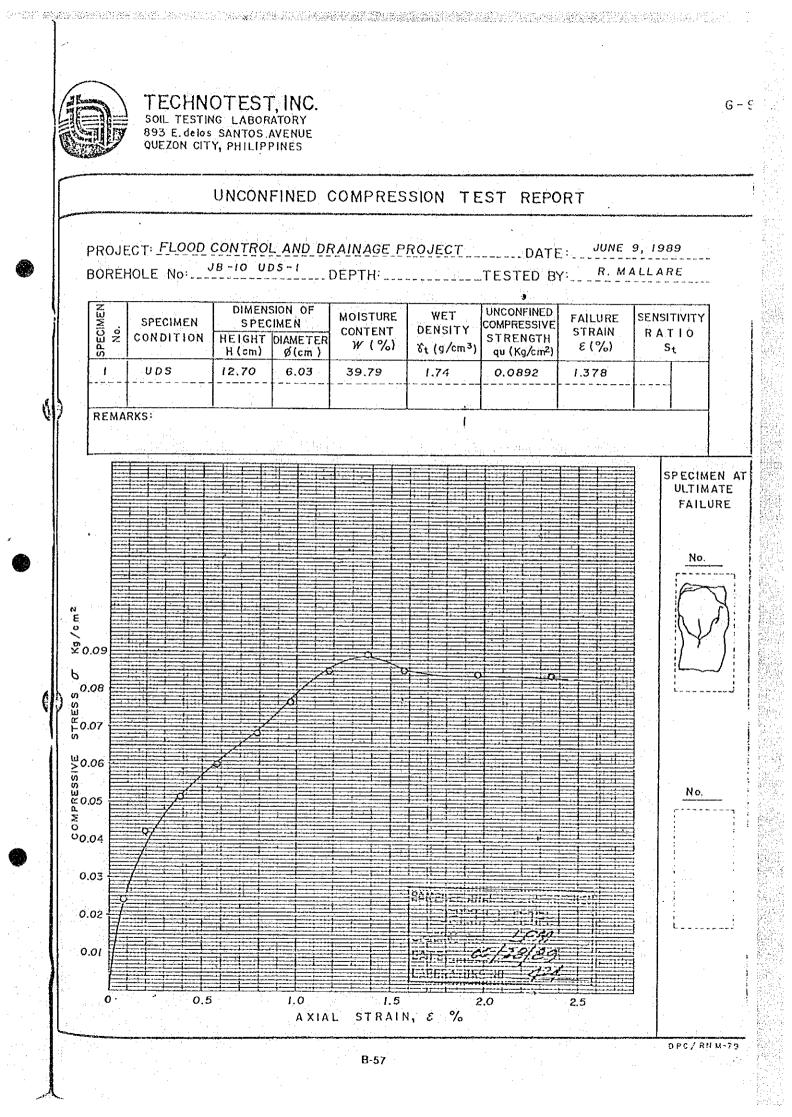


UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 27, 1989 BOREHOLE No: JB-9 UDS-1 DEPTH: 7.55-8 TESTED BY: R. MALLARE



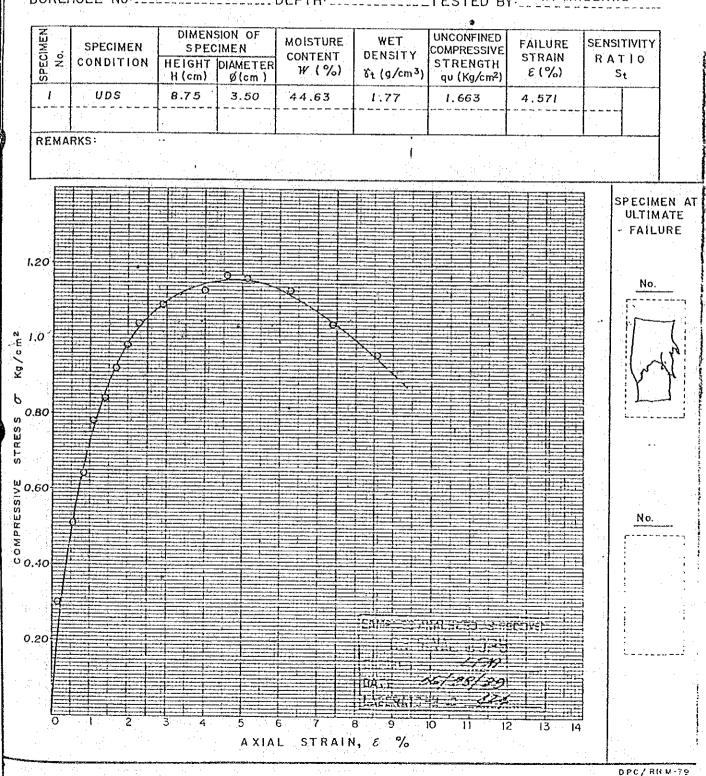
G - 8





UNCONFINED COMPRESSION TEST REPORT

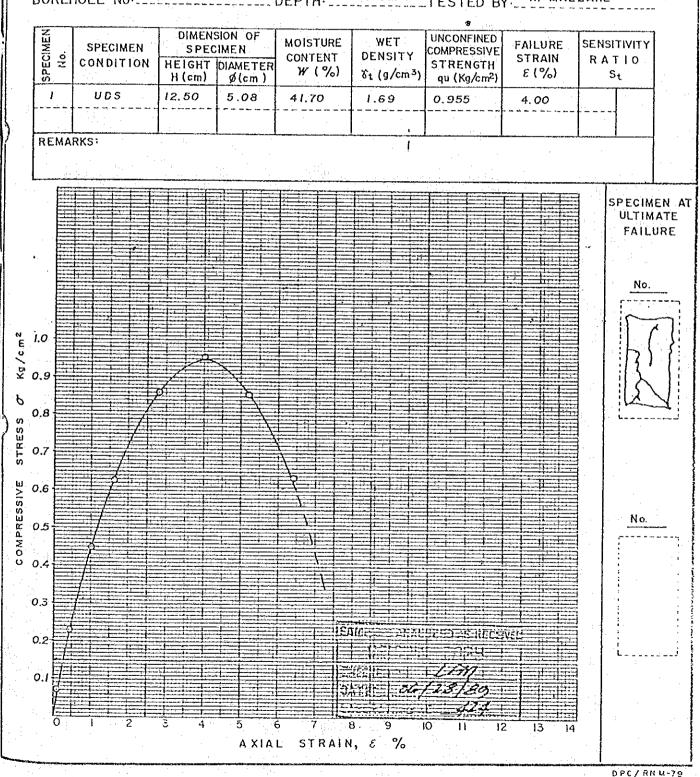
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UNCONFINED COMPRESSION TEST REPORT

PROJECT: FLOOD CONTROL AND DRAINAGE PROJECT DATE: JUNE 8, 1989 BOREHOLE No: TP/JB-8 UDS DEPTH: 0.50m TESTED BY: R. MALLARE

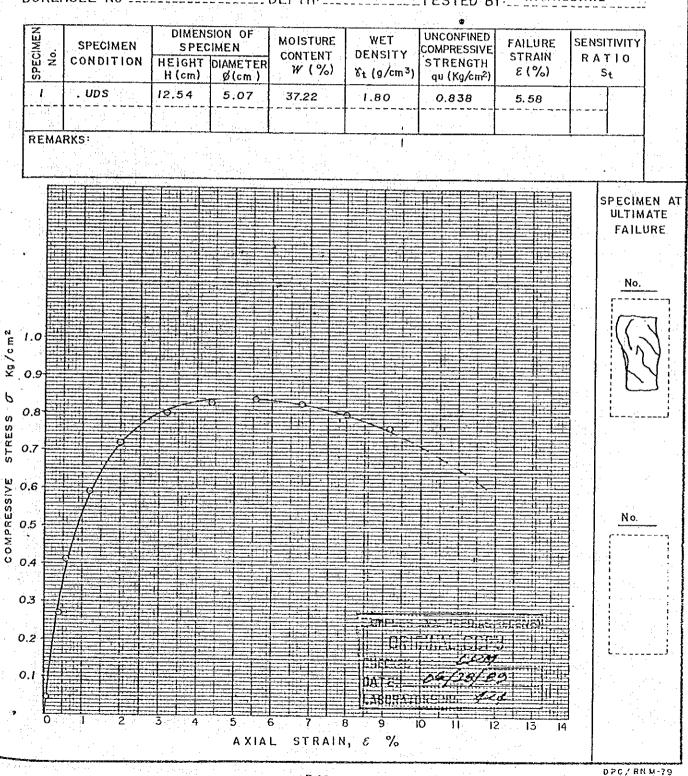


G - 11



UNCONFINED COMPRESSION TEST REPORT

PROJECT: _FLOOD CONTROL AND DRAINAGE PROJECT _____ DATE: ____UNE 8,1989 BOREHOLE No: _____TP/JB-9 UDS _____ DEPTH: ____O.50m ____TESTED BY: _____R.MALLARE



G - 12