4/28/1992

SWDED-GL REPORT NO. 15520

RESULTS OF TESTS OF SOIL SAMPLES

LANDFILL NO. 5, CELL-3, SITE-1

CANNON AFB - ALBUQUERQUE DISTRICT

CORPS OF ENGINEERS

U. S. ARMY

SOUTHWESTERN DIVISION LABORATORY

DALLAS, TEXAS

Unless other instructions are received by the Director, SWD Lab, all samples identified with this report, tested and untested, will be discarded APR 93

SOUTHWESTERN DIVISION LABORATORY, CORPS OF ENGINEERS
4815 Cass Street
Dallas, Texas 75235

SUBMITTAL OF SWDED-GL REPORT 15520 (18 pages)

PROJECT: CANNON AFB
Feature: LANDFILL NO. 5, CELL-3
SITE-1, CAP

Contract No.

TEST REQUEST NO.: E85920036
Dated: 27 FEB 1992
Received: 04 MARCH 1992

From: CHIEF
ENGRG/PLNG DIVISION
ALBUQUERQUE DISTRICT

MATERIAL: UNDISTURBED AND DISTURBED SOIL SAMPLES
No. and type of samples: ONE BAG SAMPLE AND TWO PUSH TUBES
Source or other identification: BORINGS: 3-1 AND 3-2

Date received: 2 MARCH 1992

REMARKS:

PERMEABILITY TEST RESULTS	PAGE 2
GRADATION CURVES	PLATES 1-3
COMPACTION TESTS	PLATES 4 AND 5
PERMEABILITY TESTS	PLATES 6-14
DRYING TEST PHOTO	PLATES 15 AND 16

Report sent to:
ALBUQUERQUE DISTRICT

Copy furnished:

Date: APR 28 1992

Name and title:
WILLIAM R. TANNER
Director
SWD Laboratory

Signature

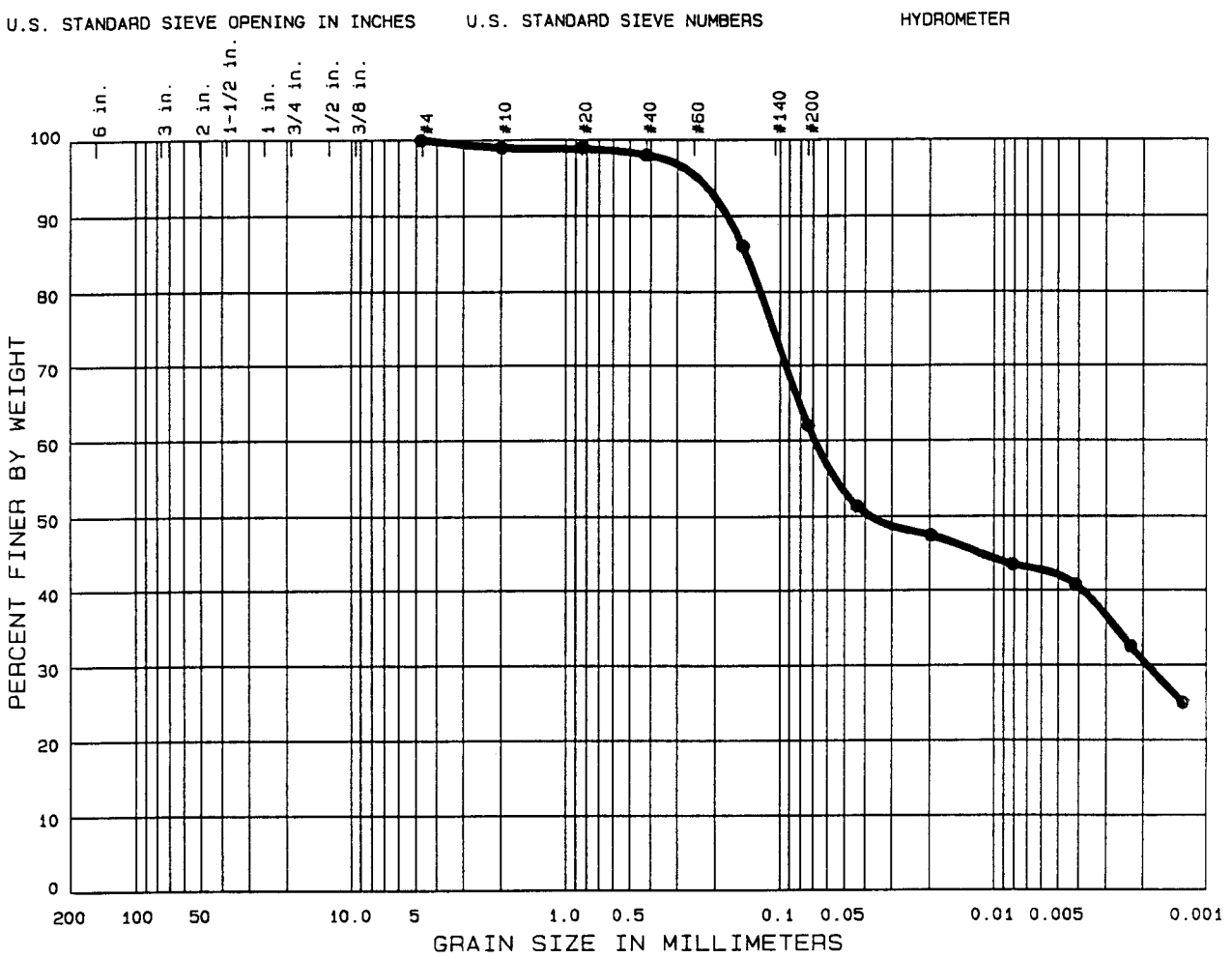
Permeability Test Results

SWDED-GL Report No. : 15520

District: Albuquerque
Project: Cannon AFB
Feature: Landfill No. 5, Cell-3, Site-1, CAP
Sample No. 92/844 (bag samples)

Molded Water Content, %	+/- Optimum Water Content	Molded Dry Density, pcf	% of Std Max Dry Density	Permeability CM/SEC
25-Blows				
19.9	-3.2	92.5	96	2.5 X 10-6
23.9	+0.8	96.2	100	2.3 X 10-8
26.2	+3.1	94.2	98	7.0 X 10-9
28.4	+5.3	92.4	96	1.0 X 10-8
15-Blows				
23.8	+0.7	90.3	93	2.9 X 10-6
28.1	+5.0	91.6	95	2.6 X 10-9
30.0	+6.9	89.3	92	3.7 X 10-9
31.7	+8.6	87.2	90	3.5 X 10-9

Sample No. 92/842 (Undisturbed) 5.7 X 10-5



	% COBBLES	% GRAVEL	% SAND	% SILT OR CLAY
●	0.0	0.0	38.0	62.0

	Sample No.	Elev or Depth	Nat W%	LL	PL	PI	C_c	C_u
●	92/842	UNKNOWN	10.1	40	12	28		

CLASSIFICATION

● SANDY LEAN CLAY (CL)

Remarks:

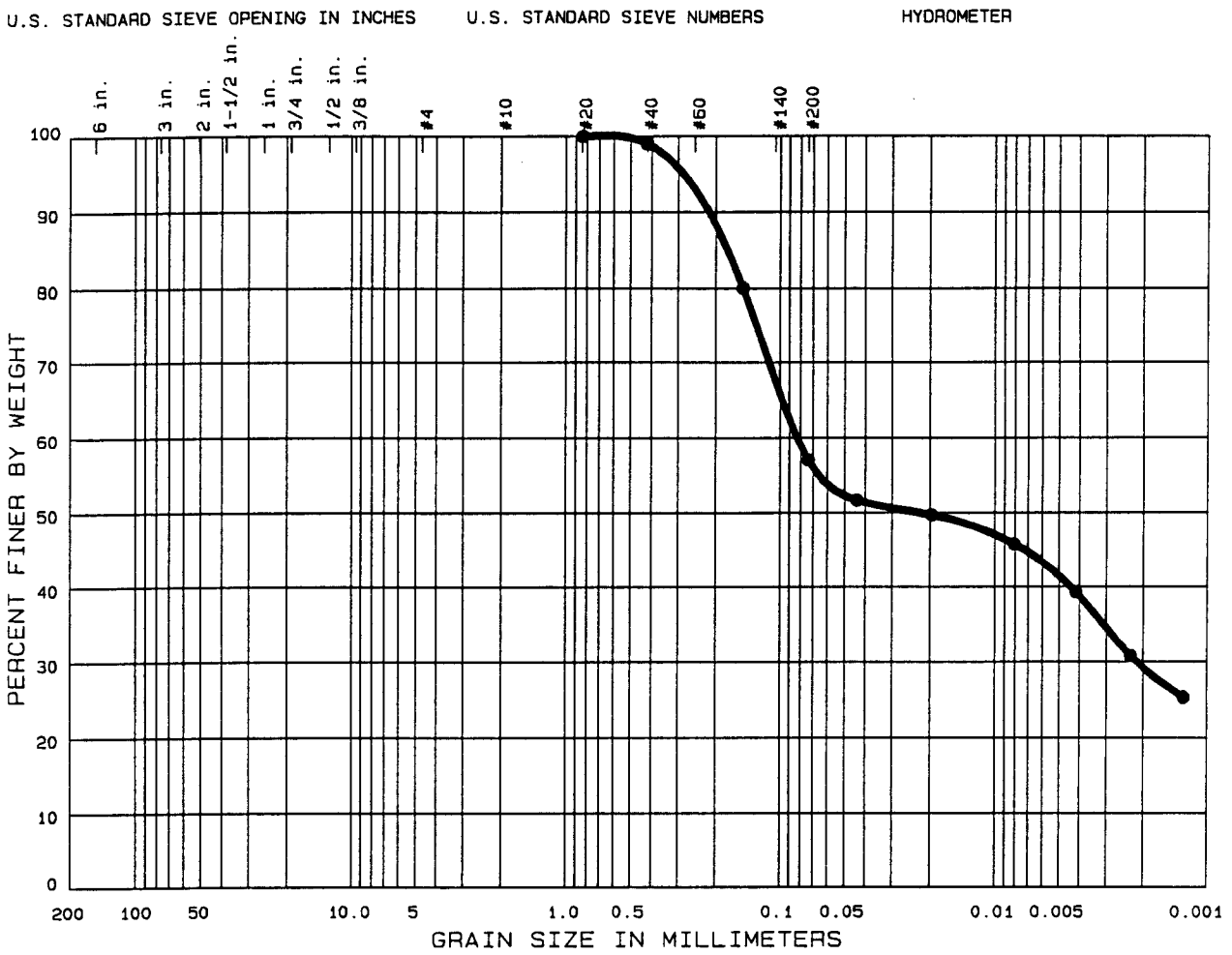
Project CANNON AFB - LANDFILL NO. 5
CELL-3, SITE-1, UNDISTURBED
Lab No. SWDED-GL REPORT 15520
Area

Boring No. 3-1 Date 11 MARCH 1992

GRADATION CURVES Plate-1

W.O. No. SWDED-GL 15520
Req. No.
Contract No.

DEPARTMENT OF THE ARMY, SOUTHWESTERN DIVISION LABORATORY
CORPS OF ENGINEERS, 4815 CASS STREET, DALLAS, TX 75235



	% COBBLES	% GRAVEL	% SAND	% SILT OR CLAY
●	0.0	0.0	43.0	57.0

	Sample No.	Elev or Depth	Nat W%	LL	PL	PI	C_c	C_u
●	92/843	UNKNOWN	14.8	32	16	16		

CLASSIFICATION

● SANDY LEAN CLAY (CL)

Remarks:

Project CANNON AFB - LANDFILL NO. 5
CELL-3, SITE-1, UNDISTURBED
Lab No. SWDED-GL REPORT 15520
Area

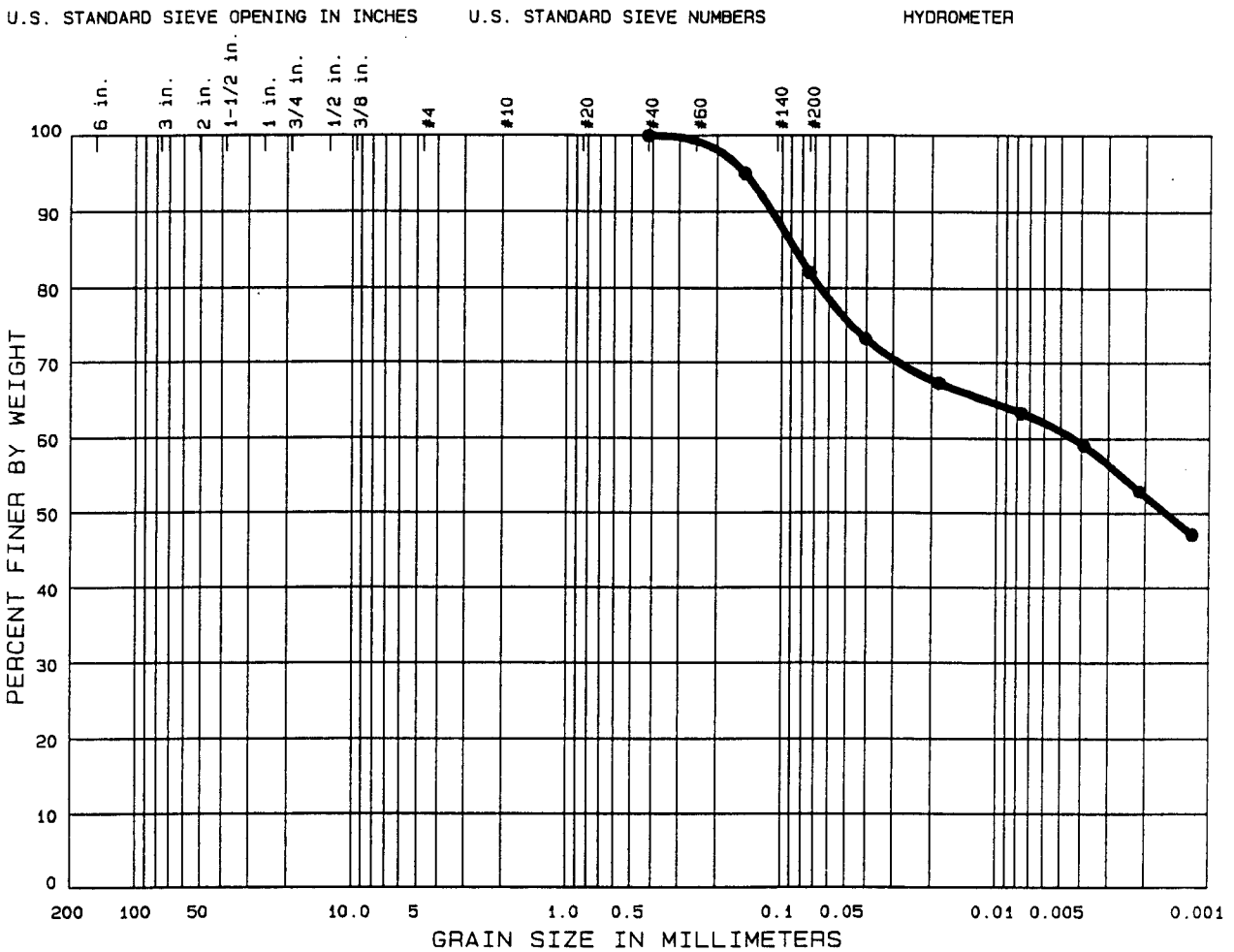
Boring No. 3-2 Date 11 MARCH 1992

GRADATION CURVES Plate 2

W.O. No. SWDED-GL 15520
Req. No.
Contract No.

DEPARTMENT OF THE ARMY, SOUTHWESTERN DIVISION LABORATORY
CORPS OF ENGINEERS, 4815 CASS STREET, DALLAS, TX 75235

W.O. No. SWDED-GL 15520
Req. No.
Contract No.



	% COBBLES	% GRAVEL	% SAND	% SILT OR CLAY
●	0.0	0.0	18.0	82.0

	Sample No.	Elev or Depth	Nat W%	LL	PL	PI	C_c	C_u
●	92/844	0.0' - 3.0'	5.0	61	20	41		

CLASSIFICATION

● FAT CLAY WITH SAND (CH)

Remarks:

Project CANNON AFB - LANDFILL NO. 5
CELL-3, SITE-1, CAP
Lab No. SWDED-GL REPORT 15520
Area

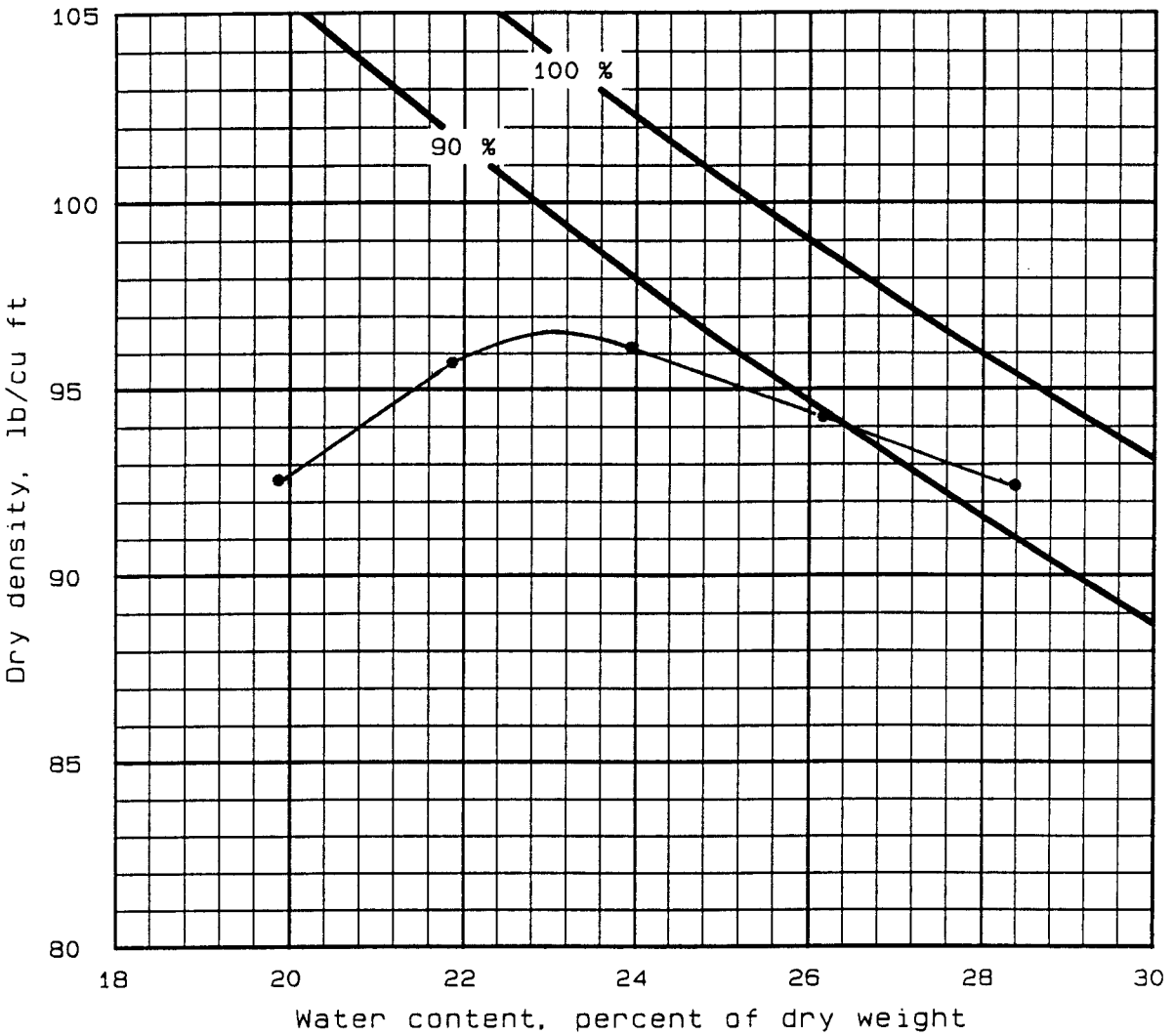
Boring No. Date 11 MARCH 1992

GRADATION CURVES Plate 3

DEPARTMENT OF THE ARMY, SOUTHWESTERN DIVISION LABORATORY
CORPS OF ENGINEERS, 4815 CASS STREET, DALLAS, TX 75235

DEPARTMENT OF THE ARMY, SOUTHWESTERN DIVISION LABORATORY
CORPS OF ENGINEERS, 4815 CASS STREET, DALLAS, TX 75235

WORK ORDER NO. SWDED-GL 15520
Req. No.
Contract No.



Standard compaction test ASTM D698 Method A
25 blows per each of 3 layers, with 5.50 lb. sleeve rammer
and 12.0 inch drop. 4.0 inch diameter mold

Sample No.	Elev/ Depth	Classification	G	LL	PL	% > No.4	% > 3/4 in.
92/844	0.0'-	FAT CLAY WITH SAND	2.70	61	20	0	0
	3.0'	(CH)					

Sample No.	92/844			
Water content, percent	5.0	AS RECEIVED		
Optimum water content, percent	23.1			
Max dry density, lb/cu ft	96.6			

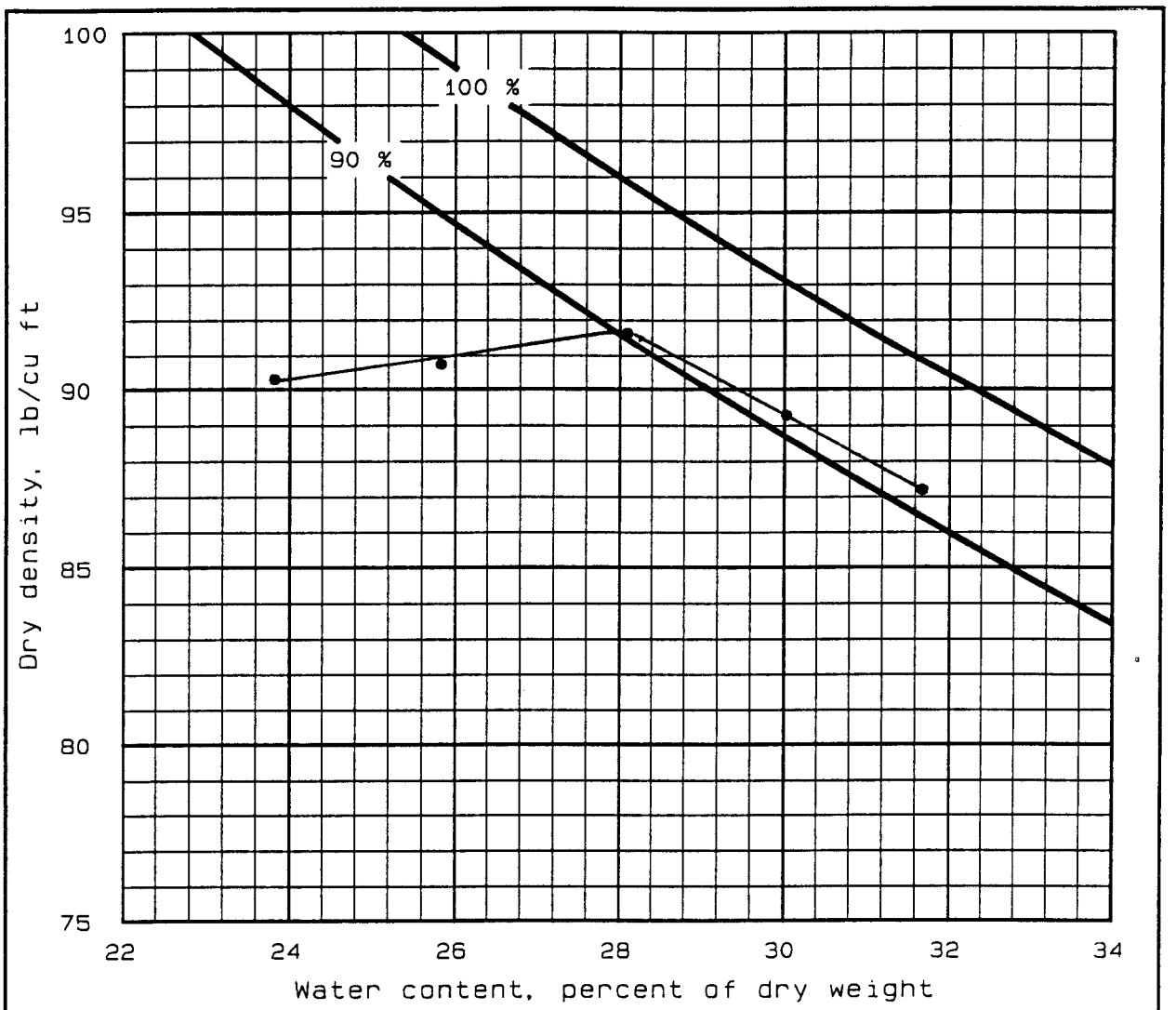
Remarks:

Project: CANNON AFB - LANDFILL NO. 5,
CELL-3, SITE-1, CAP, BAGS, 0.0'-3.0
Lab No.: 92/842
Area:
Plate 4
Boring No.: 3-1
Date: 4 MARCH 92

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SOUTHWESTERN DIVISION LABORATORY
CORPS OF ENGINEERS, 4815 CASS STREET, DALLAS, TX 75235

WORK ORDER NO. SWDED-GL 15520
Req. No.
Contract No.



15-Blow compaction test EM 1110-2-1906 Appendix VI
15 blows per each of 3 layers, with 5.50 lb. sleeve rammer
and 12.0 inch drop. 4.0 inch diameter mold

Sample No.	Elev/ Depth	Classification	G	LL	PL	% > No.4	% > 3/4 in.
92/844	0.0'-	FAT CLAY WITH SAND	2.70	61	20	0	0
	3.0'	(CH)					

Sample No.	92/844			
Water content, percent	5.0	AS RECEIVED		
Optimum water content, percent	27.9			
Max dry density, lb/cu ft	91.6			

Remarks:

Project: CANNON AFB - LANDFILL NO. 5,
CELL-3, SITE-1, CAP, BAGS, 0.0'-3.0
Lab No.: 92/842
Area:
Plate 5
Boring No.: 3-1
Date: 4 MARCH 92

COMPACTION TEST REPORT

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: UNDISTURBED			Before Test:		After Test:
Diam(in): 6.09	Ht(in): 3.71		Water Content, wo: 10.1		wf: 19.8
Confining Pressure(psi): 90.0			Void Ratio, eo 0.522		ef: 0.522
Backpressure to saturate: 85.0			Saturation, So: 51.9		Sf: 101.7
Differential Head(psi): 1.0			Dry Density, lb/ft3: 109.6		109.6
Class.: SANDY LEAN CLAY (CL)			HYDRAULIC GRADIENT: 8		
LL 40	Gs 2.68		Project: CANNON AFB AFB - LANDFILL NO. 5		
PL 12	D10		CELL-3, SITE1, UNDISTURBED		
Permeant Liquid: WATER			Area:		
Remarks:			Boring No. 3-1		Smpl #92/842
			Depth: UNKNOWN		Date: 4 MAR 92

	Coefficient of Permeability at 20 deg C.	
Run 1	5.5E-05	CM/SEC
Run 2	6.0E-05	CM/SEC
Run 3	5.2E-05	CM/SEC
Run 4	6.3E-05	CM/SEC
Run 5	6.4E-05	CM/SEC
Run 6	5.2E-05	CM/SEC
Run 7	5.3E-05	CM/SEC
Run 8	5.3E-05	CM/SEC
Average	5.7E-05	CM/SEC

RUN 1 THUR 8

	init.	final
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	3434.0	
WEIGHT OF DRY SOIL, g	3119.0	
AREA, cm^2	187.93	
VOLUME, cm^3	1775.0	1775.00
REDUCED HEIGHT OF SOIL,cm	2.438	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	19.9	wf: 31.9
Confining Pressure(psi):		70.0	Void Ratio, eo	0.821	ef: 0.821
Backpressure to saturate:		65.0	Saturation, So:	65.5	Sf: 104.9
Differential Head(psi):		3.0	Dry Density, lb/ft3:	92.5	92.5
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM MINUS 3.2 % AT			Boring No.:		Smpl #92/844
96 % MAX STD DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

Run 1	1.3E-05	CM/SEC
Run 2	1.4E-05	CM/SEC
Run 3	1.3E-05	CM/SEC
Run 4	1.1E-05	CM/SEC
Run 5	1.0E-05	CM/SEC
Run 6	5.7E-06	CM/SEC
Run 7	3.6E-06	CM/SEC
Run 8	2.8E-06	CM/SEC
Run 9	2.6E-06	CM/SEC
Run 10	2.2E-06	CM/SEC
Run 11	2.4E-06	CM/SEC
Average RUN 8,9,10,11	2.5E-06	CM/SEC

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1674.2	
WEIGHT OF DRY SOIL, g	1396.3	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.511	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	23.9	wf: 28.4
Confining Pressure(psi):		70.0	Void Ratio, eo	0.752	ef: 0.752
Backpressure to saturate:		65.0	Saturation, So:	85.8	Sf: 102.0
Differential Head(psi):		3.0	Dry Density, lb/ft3:	96.2	96.2
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM PLUS 0.8 % AT			Boring No.:		Smpl #92/844
STD MAX DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

Run 1	5.3E-08	CM/SEC
Run 2	3.8E-08	CM/SEC
Run 3	2.8E-08	CM/SEC
Run 4	2.4E-08	CM/SEC
Run 5	1.9E-08	CM/SEC
Run 6	2.2E-08	CM/SEC

Average RUN 3,4,5,6	2.3E-08	CM/SEC

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1798.2	
WEIGHT OF DRY SOIL, g	1451.3	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.610	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED		Before Test:		After Test:	
Diam(in): 4.00	Ht(in): 4.57	Water Content, wo:	26.2	wf:	27.7
Confining Pressure(psi):	70.0	Void Ratio, eo	0.788	ef:	0.788
Backpressure to saturate:	65.0	Saturation, So:	89.7	Sf:	94.9
Differential Head(psi):	3.0	Dry Density, lb/ft3:	94.2		94.2
Class.: FAT CLAY WITH SAND (CH)		HYDRAULIC GRADIENT:	18		
LL 61	Gs 2.70	Project: CANNON AFB - LANDFILL NO. 5			
PL 20	D10	CELL-3, SITE-1, CAP			
Permeant Liquid: WATER		Area:			
Remarks: OPTIMUM PLUS 3.1 % AT		Boring No.:		Smpl #92/844	
98 % MAX STD DENSITY		Depth: 0.0'-3.0'		Date: 6 MAR 92	

Coefficient of
Permeability at 20 deg C.

Run 1	2.8E-08 CM/SEC
Run 2	1.2E-08 CM/SEC
Run 3	8.2E-09 CM/SEC
Run 4	7.7E-09 CM/SEC
Run 5	6.0E-09 CM/SEC
Run 6	7.2E-09 CM/SEC

Average 7.0E-09 CM/SEC
RUN 4,5,6

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1794.1	
WEIGHT OF DRY SOIL, g	1421.6	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.557	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	28.4	wf: 28.9
Confining Pressure(psi):		70.0	Void Ratio, eo	0.824	ef: 0.824
Backpressure to saturate:		65.0	Saturation, So:	93.1	Sf: 94.7
Differential Head(psi):		3.0	Dry Density, lb/ft3:	92.4	92.4
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM PLUS 5.3 % AT			Boring No.:		Smpl #92/844
97 % MAX STD DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

Run 1	1.2E-08 CM/SEC
Run 2	6.3E-09 CM/SEC
Run 3	1.0E-08 CM/SEC
Run 4	1.2E-08 CM/SEC
Run 5	9.4E-09 CM/SEC
Run 6	9.0E-09 CM/SEC

Average RUN 3,4,5,6	1.0E-08 CM/SEC

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1789.9	
WEIGHT OF DRY SOIL, g	1394.0	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.507	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	23.8	wf: 31.5
Confining Pressure(psi):		80.0	Void Ratio, eo	0.866	ef: 0.866
Backpressure to saturate:		75.0	Saturation, So:	74.2	Sf: 98.2
Differential Head(psi):		3.0	Dry Density, lb/ft3:	90.3	90.3
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM PLUS 0.7 % AT			Boring No.:		Smpl #92/844
93 % MAX STD DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

RUN-1	1.5E-05	CM/SEC	RUN-11	5.0E-06	CM/SEC
RUN-2	1.3E-05	CM/SEC	RUN-12	4.9E-06	CM/SEC
RUN-3	1.3E-05	CM/SEC	RUN-13	4.7E-06	CM/SEC
RUN-4	1.3E-05	CM/SEC	RUN-14	7.0E-06	CM/SEC
RUN-5	1.1E-05	CM/SEC	RUN-15	9.3E-06	CM/SEC
RUN-6	9.8E-06	CM/SEC	RUN-16	6.2E-06	CM/SEC
RUN-7	9.2E-06	CM/SEC	RUN-17	3.5E-06	CM/SEC
RUN-8	9.1E-06	CM/SEC	RUN-18	3.2E-06	CM/SEC
RUN-9	9.8E-06	CM/SEC	RUN-19	2.6E-06	CM/SEC
RUN-10	9.0E-06	CM/SEC	RUN-20	2.3E-06	CM/SEC

Average 2.9E-06 CM/SEC
RUN 17,18,19,20

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1686.8	
WEIGHT OF DRY SOIL, g	1362.5	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.451	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED		Before Test:		After Test:	
Diam(in): 4.00	Ht(in): 4.57	Water Content, wo:	28.1	wf:	29.8
Confining Pressure(psi):	70.0	Void Ratio, eo	0.839	ef:	0.839
Backpressure to saturate:	65.0	Saturation, So:	90.4	Sf:	95.9
Differential Head(psi):	3.0	Dry Density, lb/ft3:	91.6		91.6
Class.: FAT CLAY WITH SAND (CH)		HYDRAULIC GRADIENT:	18		
LL 61	Gs 2.70	Project: CANNON AFB - LANDFILL NO. 5			
PL 20	D10	CELL-3, SITE-1, CAP			
Permeant Liquid: WATER		Area:			
Remarks: OPTIMUM PLUS 5.0 % AT		Boring No.:		Smpl #92/844	
95 % MAX STD DENSITY		Depth: 0.0'-3.0'		Date: 6 MAR 92	

Coefficient of
Permeability at 20 deg C.

Run 9	3.3E-09 CM/SEC
Run 10	4.2E-09 CM/SEC
Run 11	2.7E-09 CM/SEC
Run 12	2.2E-09 CM/SEC
Run 13	2.8E-09 CM/SEC

Average RUN 11,12,13	2.6E-09 CM/SEC

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1770.9	
WEIGHT OF DRY SOIL, g	1382.4	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.486	

PERMEABILITY TEST RESULTS SWDED-GL 15520

Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	30.0	wf: 30.9
Confining Pressure(psi):		70.0	Void Ratio, eo	0.887	ef: 0.887
Backpressure to saturate:		65.0	Saturation, So:	91.3	Sf: 94.0
Differential Head(psi):		3.0	Dry Density, lb/ft3:	89.3	89.3
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM PLUS 6.9 % AT			Boring No.:		Smpl #92/844
92 % MAX STD DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

Run 1	4.7E-09 CM/SEC	Run 9	4.4E-09 CM/SEC
Run 2	1.0E-08 CM/SEC	Run 10	3.2E-09 CM/SEC
Run 3	7.8E-09 CM/SEC	Run 11	3.3E-09 CM/SEC
Run 4	5.7E-09 CM/SEC	Run 12	2.1E-09 CM/SEC
Run 5	-1.6E-08 CM/SEC	Run 13	4.0E-09 CM/SEC
Run 6	2.0E-08 CM/SEC	Run 14	3.8E-09 CM/SEC
Run 7	1.6E-09 CM/SEC	Run 15	3.6E-09 CM/SEC
Run 8	4.6E-09 CM/SEC	Run 16	3.4E-09 CM/SEC

Average 3.70E-09 CM/SEC
RUN 13,14,15,16

	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1751.4	
WEIGHT OF DRY SOIL, g	1347.2	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.423	

PERMEABILITY TEST RESULTS SWDED-GL 15520

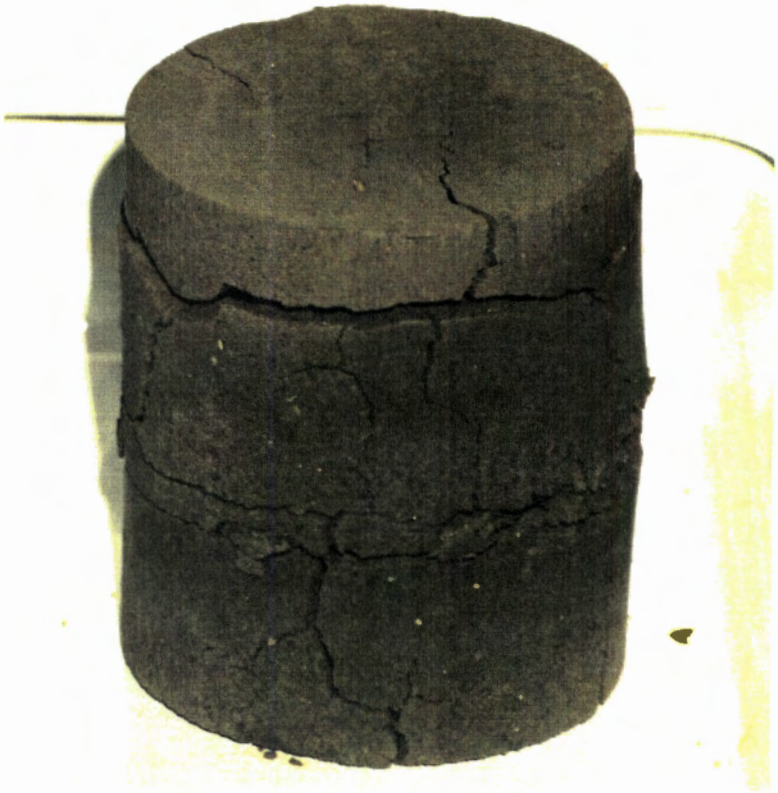
Type of Specimen: REMOLDED			Before Test:		After Test:
Diam(in): 4.00	Ht(in): 4.57		Water Content, wo:	31.7	wf: 32.5
Confining Pressure(psi):		80.0	Void Ratio, eo	0.933	ef: 0.933
Backpressure to saturate:		75.0	Saturation, So:	91.7	Sf: 94.0
Differential Head(psi):		3.0	Dry Density, lb/ft3:	87.2	87.2
Class.: FAT CLAY WITH SAND (CH)			HYDRAULIC GRADIENT:	18	
LL 61	Gs 2.70		Project: CANNON AFB - LANDFILL NO. 5		
PL 20	D10		CELL-3, SITE-1, CAP		
Permeant Liquid: WATER			Area:		
Remarks: OPTIMUM PLUS 8.6 % AT			Boring No.:		Smpl #92/844
90 % MAX STD DENSITY			Depth: 0.0'-3.0'		Date: 6 MAR 92

Coefficient of
Permeability at 20 deg C.

Run-1	-6.0E-09 CM/SEC
Run-2	3.9E-09 CM/SEC
Run-3	2.8E-09 CM/SEC
Run-4	3.9E-09 CM/SEC
Run-5	5.7E-09 CM/SEC
Run-6	1.0E-08 CM/SEC
Run 7	1.2E-08 CM/SEC
Run 8	3.4E-09 CM/SEC
Run 9	3.8E-09 CM/SEC
Run 10	3.1E-09 CM/SEC
Run-11	3.6E-09 CM/SEC
Average RUN 8,9,10,11	3.5E-09 CM/SEC

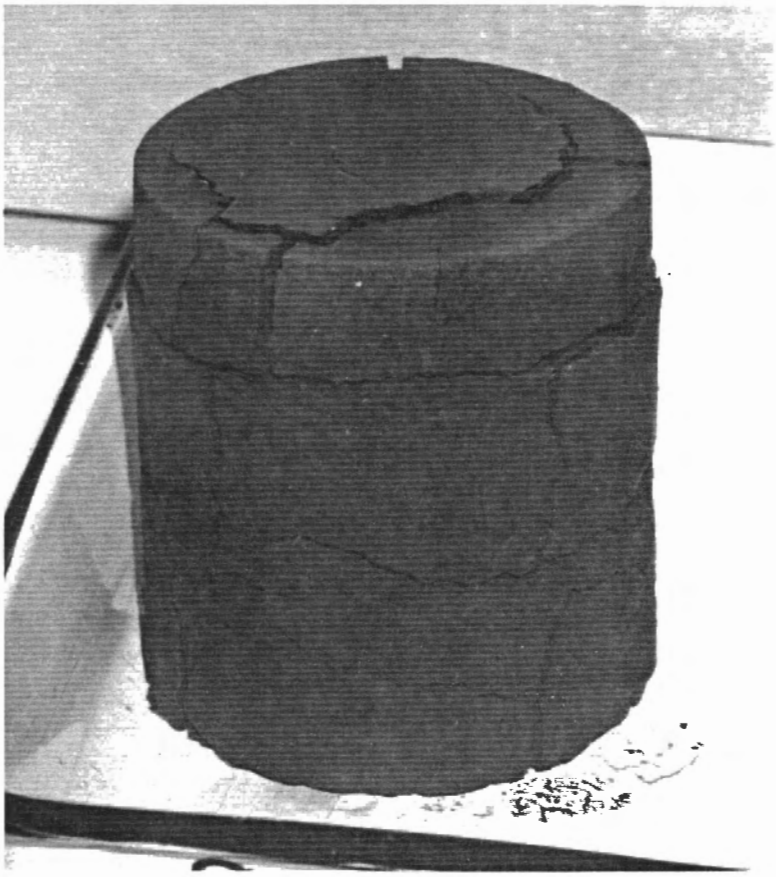
	INITAL	FINAL
HEIGHT CHANGE, CONSOL, cm	0.00	
WEIGHT OF WET SOIL, g	1732.0	
WEIGHT OF DRY SOIL, g	1315.1	
AREA, cm^2	81.07	
VOLUME, cm^3	941.6	941.60
REDUCED HEIGHT OF SOIL,cm	2.365	

Sample 92/844 - Optimum
+ 0.8 % at Std Max Density
After permeability test and
24 hours air drying



Sample 92/844 - Optimum
+ 3.1 % at 98 % Std Max Density
After permeability test and
24 hours air drying

Sample 92/844 - Optimum
+ 5.3 % at 97 % Std Max Density
After permeability test and
24 hours air drying



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