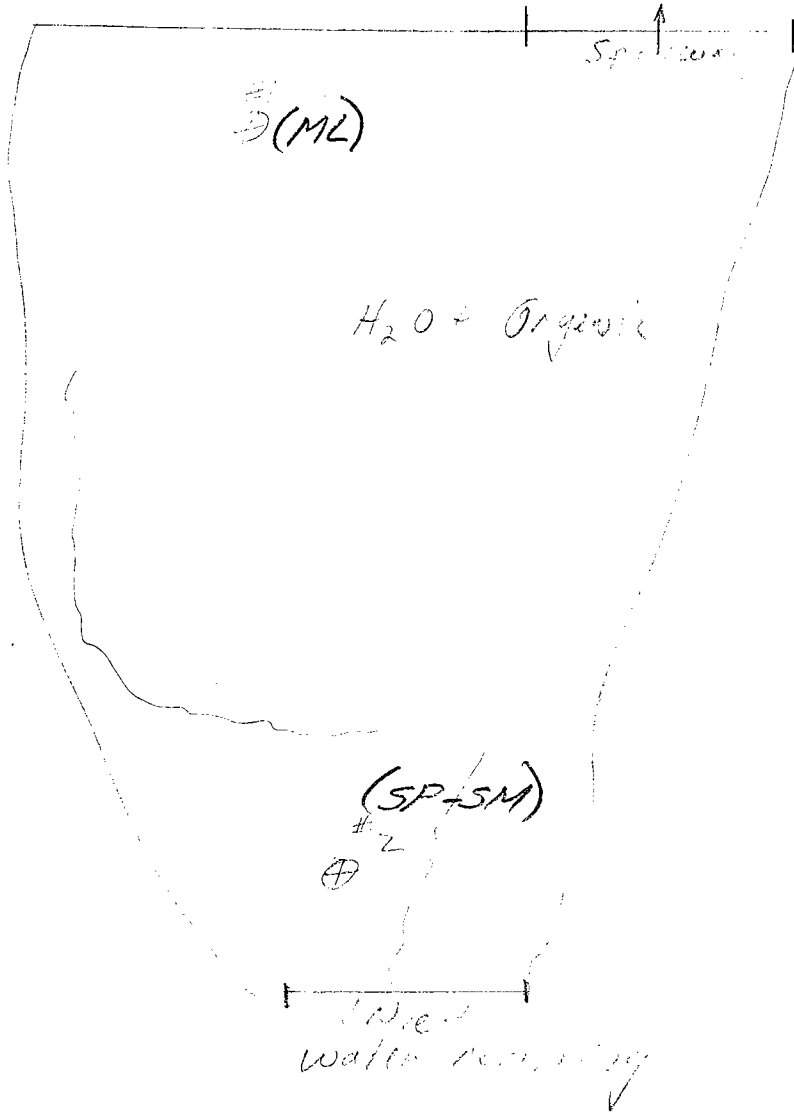


Alcorno Canyon D.B.

2/21/69 (40)

NR File



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**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

ML (40)

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22946 Total Weight of Sample 1.33 lbs.  
 Project NICHOLS \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/12 Plotted By \_\_\_\_\_  
 Boring No. \_\_\_\_\_ Sample No. \_\_\_\_\_ Remarks NR  
 Sampled By \_\_\_\_\_ Lab Tested By NR Intended Use \_\_\_\_\_

**GRAVEL (Plus No. 4)**

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2	/					
1½"	38.1						
(1")	(25.4)						
¾"	19.1						
⅜"	9.52						
No. 4	4.76			—	—	100.0	
Pan	0	<u>1.33</u>		xxxxx			
Total Fractions		<u>1.33</u>		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		<u>.92</u>		<u>100.0</u>			
Total Oven-Dry		<u>.92</u>		100.00			

Moisture Determination of Fines:  
 Cup No. 70  
 Dry Weight 143.5 grams  
 Moisture 43.9 %

**FINES (Minus No. 4)**

WEIGHT, GRAMS 100 (CALC.) OVEN-DRY WEIGHT 69.4 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 69.4 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	<u>0.2</u>	<u>0.3</u> ✓	<u>0.3</u>		
16	1.19	<u>0.1</u>	<u>0.1</u> ✓	<u>0.4</u>		
30	0.59	<u>0.1</u>	<u>0.1</u> ✓	<u>0.5</u>		
50	.297	<u>0.1</u>	<u>0.1</u> ✓	<u>0.6</u>		
100	.149	<u>0.1</u>	<u>0.1</u> ✓	<u>0.7</u>		
200	.074	<u>0.1</u>	<u>0.1</u> ✓	<u>0.9</u>	<u>99.1</u>	
Pan	0					
Total Fractions		<u>0.7</u>				
Total Dry Weight After Wet Sieving <u>120.8</u>		<u>0.6</u> ✓		<u>0.9</u>		
Sieve Loss-Gain		<u>+1</u> ✓				

Calculated by NR Date 3/18/69  
 Checked by JHF Date 3/18/69

Note: Cross out sieve numbers not used.

# 1 (40)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
Foundation and Testing Division

HYDROMETER ANALYSIS WORK SHEET

ASTM Method D422-54T  
(Modified)

LAB. SERIAL NO. 22946  
Project \_\_\_\_\_  
Limits \_\_\_\_\_  
Boring \_\_\_\_\_ Sample \_\_\_\_\_  
Depth \_\_\_\_\_  
Sampled by \_\_\_\_\_ Date \_\_\_\_\_  
Field Description \_\_\_\_\_

Initial Weight of Sample Passing  
No. 4 Sieve \_\_\_\_\_ grams

Remarks \_\_\_\_\_

Set up by NR Date 3/12/69  
Lab. Tested by NR Date 3/13/69

Moisture Cup No. 70  
Dry Weight, grams 143.5  
Moisture Content, % \_\_\_\_\_  
Oven-Dry Weight  
Passing No. 4 grams \_\_\_\_\_  
Percent Passing No. 4 \_\_\_\_\_; No. 10 \_\_\_\_\_ = P<sub>10</sub>  
Oven-Dry Weight of total  
Sample represented, 69.4 grams  
W = \_\_\_\_\_ grams

Type Calgon  
Dispersing Volume, cc 125  
Agent Strength, % \_\_\_\_\_  
Correction, gm/l = C<sub>d</sub> -7.0  
Soil Specific Gravity = G 2.65  
S. G. Correction factor = a 1  
Meniscus correction, gm/l = C<sub>m</sub> +1.3 (-5.7)  
Peroxide Treatment Used (Yes) (No) \_\_\_\_\_  
HYDROMETER NO. \_\_\_\_\_ JAR NO. \_\_\_\_\_

11:29:30 START  
11:30 START

Time	11:31	11:34	11:46	12:34	3:46	8:30
Temperature, °C	20.0	20.0	20.0	20.0	19.9	20.0
Temp. correc. Factor = C <sub>t</sub>	0	0	0	0	0	0
Elapsed Time, Minutes = T	1	4	16	64	256	1260
Hydrometer Reading, gm/l = R	48.0	30.5	21.0	16.0	13.0	11.5
Effective Depth, cm = L	2.90	3.365	3.59	3.70	3.77	3.795
Total Correction C = C <sub>d</sub> + C <sub>m</sub> + C <sub>t</sub>	-5.7					
Corrected Reading R <sub>c</sub> = R + C	42.3	24.8	15.3	10.3	7.3	5.8
K	.01365					
Diameter in mm = D	.0396	.0230	.0122	.00632	.00322	.00223
Percent in Suspension = P	61.1	35.8	22.1	14.9	10.5	8.4
Percent of (-10) = P'						

$$P = \frac{(R_c)(a)(100)}{(W)}$$

$$P' = \frac{(P)(100)}{(P_{10})}$$

$$D = K \sqrt{\frac{L}{T}}$$

Computed by NR Date 3/19/69  
Plotted by \_\_\_\_\_ Date \_\_\_\_\_

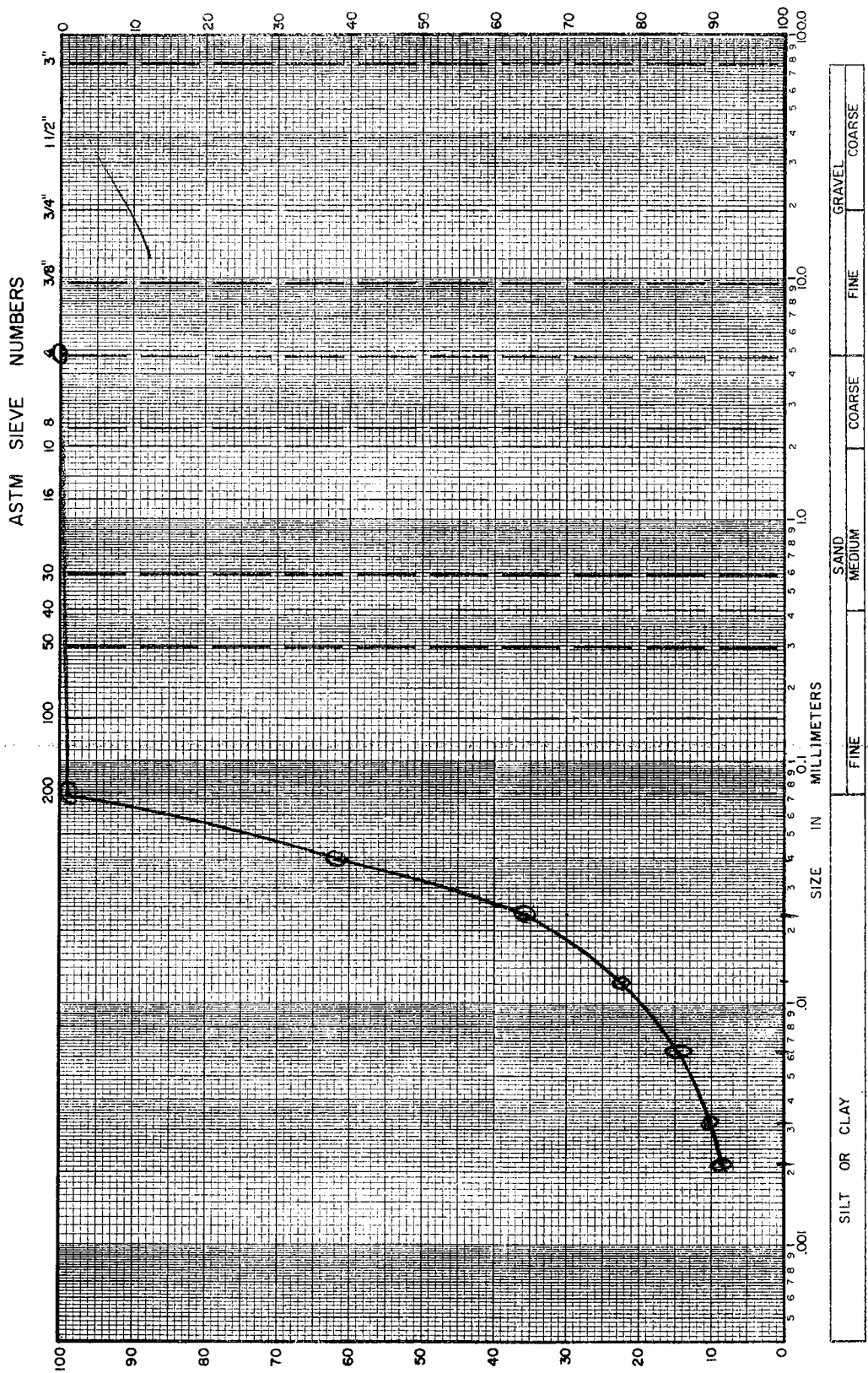
Checked by RJT  
Date 3/23/69

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22946  
 JOB \_\_\_\_\_  
 BORING NO. \_\_\_\_\_ SAMPLE NO. \_\_\_\_\_  
 STATION \_\_\_\_\_ DEPTH \_\_\_\_\_ FT.  
 LOCATION \_\_\_\_\_  
 SAMPLED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 FIELD CLASSIFICATION \_\_\_\_\_ BY \_\_\_\_\_  
 PLAS. IND. \_\_\_\_\_ LIQ. LIM. \_\_\_\_\_  
 REMARKS \_\_\_\_\_

**CLASSIFICATION DATA**

PERCENT (+) NO. 200 \_\_\_\_\_ PERCENT (+) NO. 4 \_\_\_\_\_  
 % (+) NO. 4 / % (+) NO. 200 \_\_\_\_\_ D<sub>10</sub> \_\_\_\_\_ mm  
 D<sub>30</sub> \_\_\_\_\_ mm D<sub>60</sub> \_\_\_\_\_ mm  
 C<sub>u</sub> = D<sub>60</sub>/D<sub>10</sub> \_\_\_\_\_ PLOTTED BY RT  
 C<sub>c</sub> =  $(\frac{D_{30}}{D_{10}})^2$  \_\_\_\_\_ CHECKED BY RT  
 GROUP SYMBOL \_\_\_\_\_ DATE 3/20/67  
 NOTE: D<sub>x</sub> = PARTICLE DIA. AT X % PASSING



40

PERCENT PASSING

PERCENT RETAINED

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division

40  
SM-SP

**SIEVE ANALYSIS WORK SHEET**

LAB SERIAL NO. 22947 Total Weight of Sample 1.98 lbs.  
 Project NRHOLS CAN 08 \_\_\_\_\_ grams.  
 Station \_\_\_\_\_ Moisture Content of Fines \_\_\_\_\_ %.  
 Location \_\_\_\_\_ Date Tested 3/10/69 Plotted By \_\_\_\_\_  
 Boring No. 2 Sample No. 1 Remarks NP  
 Sampled By \_\_\_\_\_ Lab Tested By AR-JHE Intended Use \_\_\_\_\_

GRAVEL (Plus No. 4)

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED		% OF TOTAL OVEN-DRY RETAINED	ACCUM. % RETAINED	ACCUM. % PASSING	
		LBS.	GRAMS			ACTUAL	SPEC. REQ.
3"	76.2						
1 1/2"	38.1						
(1")	(25.4)						
3/4"	19.1	0.03		1.7	1.7		
3/8"	9.52	0.02		1.2	2.9		
No. 4	4.76	0.08	13	4.7	7.6	92.4	
Pan	0	1.85		xxxxx			
Total Fractions		1.98		xxxxx			
Sieve Loss-Gain							
Calc. Oven-Dry Fines		1.59		92.4			
Total Oven-Dry		1.72		100.00			

Moisture Determination of Fines:  
Cup No. 28  
Dry Weight 160.1 grams  
Moisture 16.1 %

WEIGHT, GRAMS 100 FINES (Minus No. 4) (CALC.) OVEN-DRY WEIGHT 86.1 grams.  
 WEIGHT OF TOTAL SAMPLE REPRESENTED BY FINES, OVEN-DRY 93.2 grams.

ASTM SIEVE NUMBER	SIZE (mm)	RETAINED GRAMS	% OF TOTAL SAMPLE RETAINED	ACCUM. % OF TOTAL RETAINED	ACCUM. % PASSING	
					ACTUAL	SPEC. REQ.
8	2.38	2.5	2.7	10.3		
16	1.19	5.8	6.2	16.5		
30	0.59	13.9	14.9	31.4		
50	.297	21.5	23.1	54.5		
100	.149	22.5	24.1	78.6		
200	.074	11.3	12.1	91.3	8.7	
Pan	0	0.3				
Total Fractions		77.8				
Total Dry Weight After Wet Sieving		198.2	78.0	83.7		
Sieve Loss-Gain		-1.2				

Calculated by AR Date 3/10/69  
Checked by SHF Date 3/10/69

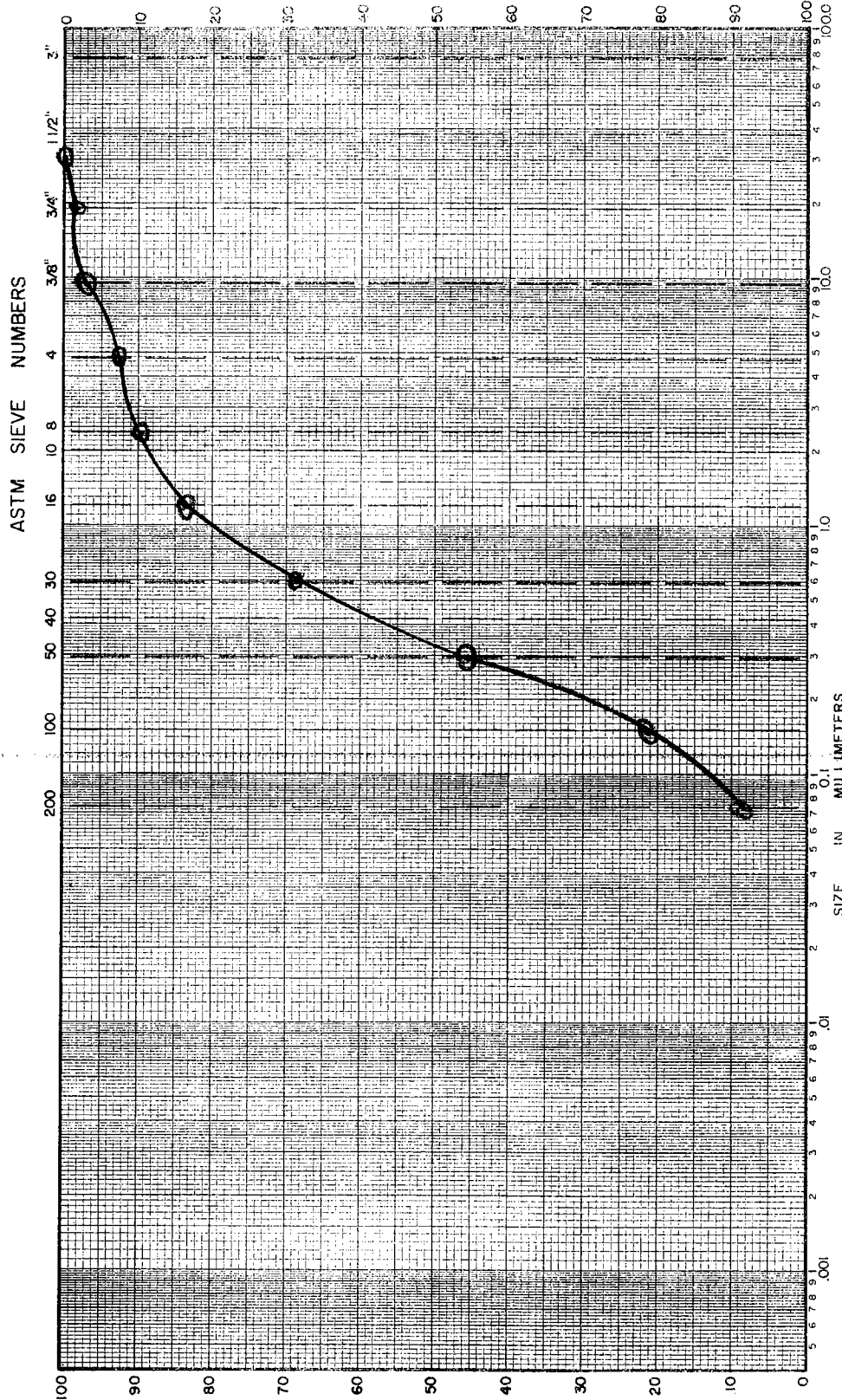
Note: Cross out sieve numbers not used.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
Soils and Materials Engineering Division  
**MECHANICAL ANALYSIS**

LAB. SERIAL NO. 22947  
 JOB \_\_\_\_\_  
 BORING NO. \_\_\_\_\_ SAMPLE NO. \_\_\_\_\_  
 STATION \_\_\_\_\_ DEPTH \_\_\_\_\_ FT.  
 LOCATION \_\_\_\_\_  
 SAMPLED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 FIELD CLASSIFICATION \_\_\_\_\_ BY \_\_\_\_\_  
 PLAS. IND. \_\_\_\_\_ LIQ. LIM. \_\_\_\_\_  
 REMARKS \_\_\_\_\_

**CLASSIFICATION DATA**

PERCENT (+) NO. 200 \_\_\_\_\_ PERCENT (+) NO. 4 \_\_\_\_\_  
 % (+) NO. 4 / % (+) NO. 200 0.44 0.82 mm  
 D<sub>30</sub> 0.20 mm D<sub>60</sub> \_\_\_\_\_ mm  
 Cu = D<sub>60</sub>/D<sub>10</sub> \_\_\_\_\_ PLOTTED BY RS  
 Cc = (D<sub>30</sub>)<sup>2</sup> / (D<sub>10</sub> x D<sub>60</sub>) \_\_\_\_\_ CHECKED BY RS  
 GROUP SYMBOL \_\_\_\_\_ DATE 3/1/71  
 NOTE: D<sub>x</sub> = PARTICLE DIA. AT X% PASSING



SILT OR CLAY \_\_\_\_\_ FINE \_\_\_\_\_ SAND MEDIUM \_\_\_\_\_ COARSE \_\_\_\_\_ FINE \_\_\_\_\_ GRAVEL COARSE \_\_\_\_\_