



ladner testing laboratories, inc

2832 Utica Avenue/Post Office Box 10778/Jackson, Mississippi 39289-0778 / (601) 362-5421
2123 Glendale Avenue/ Hattiesburg, Mississippi 39402/ (601) 544-5782
P.O. Box 2363/ Gulfport, Mississippi 39505/ (228) 604-2527

Project: ROUTINE TESTING FOR SAM LAMB JACKSON, MS	Page No: 1 Date: 06/11/2020 Lab No: 465-20-A
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Analysis of: SIEVE ANALYSIS & ATTERBERG LIMITS ON TAN & BROWN SILTY, CLAYEY SAND W/GRAVEL
Received from: CONTRACTOR - SAMPLE #1
Contractor: SAM LAMB
Producer:
Inspector: TODD LADNER
Reported To: SAM LAMB (1)

SIEVE SIZE	% PASSING	SPECIFICATIONS MDOT GRANULAR CLASS1, GROUP A
3"	100.00	100
1.5"	98.20	85 - 100
1"	94.00	65 - 100
3/4"	85.10	-----
1/2"	71.90	35 - 90
#4	53.00	30 - 70
#10	42.70	30 - 50
-----	-----	-----
#10	100.00	100
#40	74.60	20 - 80
#60	53.60	15 - 70
#200	38.00	8 - 40
LIQUID LIMIT	15.00	25 MAX
PLASTIC LIMIT	12.00	-----
PLASTIC INDEX	3.00	6 MAX
SOIL CLASSIFICATION	SC - SM	

Notes: THE ABOVE SAMPLE COMPLIES WITH THE SPECIFICATIN REQUIREMENTS FOR MDOT CLASS 1, GROUP A GRANULAR MATERIAL.



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Project: ROUTINE TESTING FOR SAM LAMB JACKSON, MS	Page No: 1 Date: 06/11/2020 Lab No: 465-20-B
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Analysis of: SIEVE ANALYSIS & ATTERBERG LIMITS ON TAN & RED POORLY GRADED SAND W/SILT
Received from: CONTRACTOR - SAMPLE #2
Contractor: SAM LAMB
Producer:
Inspector: TODD LADNER
Reported To: SAM LAMB (1)

SIEVE SIZE	% PASSING	SPECIFICATIONS MDOT GRANULAR CLASS 10, GROUP A
3"	100.00	100
1.5"	100.00	-----
1"	98.70	-----
3/4"	98.30	-----
1/2"	95.30	-----
#4	89.70	-----
#10	85.50	30 - 100
-----	-----	-----
#10	100.00	100
#40	97.60	20 - 100
#60	89.20	15 - 100
#200	12.00	8 - 60
LIQUID LIMIT	N/A	25 MAX
PLASTIC LIMIT	N/A	-----
PLASTIC INDEX	N/P	6 MAX
SOIL CLASSIFICATION	SP - SM	

Notes: THE ABOVE SAMPLE COMPLIES WITH THE SPECIFICATION REQUIREMENTS FOR CLASS 10, GROUP A - D ONLY.



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Project: ROUTINE TESTING FOR SAM LAMB JACKSON, MS	Page No: 1 Date: 06/11/2020 Lab No: 465-20-C
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Analysis of: SIEVE ANALYSIS & ATTERBERG LIMITS ON TAN & ORANGE HEAVY CLAY
Received from: CONTRACTOR - SAMPLE #3
Contractor: SAM LAMB
Producer:
Inspector: TODD LADNER
Reported To: SAM LAMB (1)

SIEVE SIZE	% PASSING
#10	-----
#40	-----
#60	-----
#200	95.00
LIQUID LIMIT	62.00
PLASTIC LIMIT	17.00
PLASTIC INDEX	45.00
SOIL CLASSIFICATION	CH

Notes:

BORROW EXCAVATION

		CLASS																
		B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
Percent Passing	(Min.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	8
No. 200 Sieve	(Max.)	25	35	10	35	35	35	100	100	100	100	-	-	-	-	-	-	50
Percent Passing	(Min.)	-	-	-	-	-	-	-	-	-	8	8	8	8	-	-	-	-
No. 270 Sieve	(Max.)	-	-	-	-	-	-	-	-	-	100	70	100	100	-	-	-	-
Percent Silt	(Max.)	-	-	-	-	-	-	-	-	-	90	50	90	75	-	-	-	-
Fraction Passing No. 40 Sieve - Liquid Limit	(Max.)	-	40	-	45	40	45	40	55	40	55	45	40	55	45	-	40	40
Plasticity Index	(Max.)	6	10	np	10	20	25	10	10	20	-	25	20	35	25	35	-	12
	(Min.)	-	-	-	-	-	-	-	-	-	-	-	-	10	-	10	11	-
% Volume Change	(Max.)	-	-	-	-	-	-	-	-	-	-	-	-	60	-	50	50	-
Group Index	(Max.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-

Percentage (by weight) Passing Square Mesh Sieves

Sieve Size	Class						
	1 & 2	3 & 4	5 & 6	7	8	9	10
3"	100	100	100	100	100	100	100
1 1/2"	85 - 100	85 - 100	85 - 100				
1"	65 - 100	65 - 100	65 - 100				
1/2"	35 - 90	35 - 90	35 - 100				
No. 4	30 - 70	30 - 75	30 - 85				
No. 10	30 - 50	30 - 57	30 - 65	30 - 100	30 - 100	30 - 100	30 - 100

Note: The minimum percentage passing the No. 10 sieve may be lowered to 25% by the Engineer if proper placement characteristics and stability can be obtained by the coarser gradation.

738

Material Passing the No. 10 Sieve

Sieve Size	Class									
	1	2	3	4	5	6	7	8	9	10
No. 10	100	100	100	100	100	100	100	100	100	100
No. 40	20 - 80	20 - 90	20 - 90	20 - 90	20 - 100	20 - 100	40 - 80	20 - 85	20 - 100	20 - 100
No. 60	15 - 70	15 - 80	15 - 80	15 - 80	15 - 80	15 - 80	30 - 70	15 - 70	15 - 85	15 - 100
No. 200	8 - 40	6 - 40	8 - 40	6 - 40	8 - 40	6 - 40	10 - 40	8 - 40	6 - 40	8 - 60

Material Passing the No. 40 Sieve shall meet the following:

Group Symbol	LL Max.	PI	
		Min.	Max.
A	25		6
B	25		8
C	30		10
**D	35		15
**E	35	6	15

General Note: Material will be designated in the contract by Class _____, Group _____.

** In the case of Group D material, the range of PI shall be no more than nine in any half-mile section. When Group E material is specified in the contract, that portion to be treated with cement may be less plastic or non-plastic except that the range in PI shall be no more than nine in any half-mile section.

703.07.3--Sampling and Testing. The material shall be sampled and tested as outlined in Subsection 700.03.

703.08--Mechanically Stabilized Courses. Specified aggregates meeting the requirements of Subsection 703.20 when combined with soils or other aggregates as required will be tested for gradation and plasticity of the composite mixture.

In the case of gravel, stone, or slag aggregates or combinations thereof, the composite mixture will be designated in the contract as Type A, Type B, or Type C. In the case of reef shell or clam shell aggregates or combinations thereof, the composite mixture will be designated in the contract as Type D.

The composite mechanically stabilized mixture of the type and group specified in the contract shall meet the following requirements:

Sieve Size	Type			
	A	B	C	D
3"	100	100	100	
1 1/2"	85-100	85-100	85-100	95-100
1"	65-100	65-100	65-100	
1/2"	35-90	35-90	35-100	
No. 4	30-70	30-75	30-85	
No. 10	30-50	30-57	30-65	
No. 40				55(Max.)