Brad White
Executive Director
Jeff Ely, P.E.
Chief of Staff

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Earl Glenn, Jr., P.E.
Deputy Executive Director/Chief Engineer
Lisa M. Hancock, CPA
Deputy Executive Director/Administration

March 18, 2025

K & S Sand and Gravel
1250 Dennie Barber Rd.
Stantonville, TN 38379

K & S Sand and Gravel (Stantonville): TN-20(A)

Jon Brooks and concerned Parties,

The sources listed below from the plant listed above meet our specifications and have been added to the Department of Transportation's Approved Sources List until March 18, 2027.

K & S #57 - 1
K & S C. Sand – 1

Sincerely,

Kenneth C. Watkins
MDOT Concrete Section Supervisor
Office: (601) 359-9772
Cell: (601) 540-7898

#57

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Soundness

Test Method: AASHTO T 104

Contract ID	MTL-CENTRAL-OCA	Fed/State Proj. #	MTL-OUT-STATE	FMS Proj. #	AGGREGATE SOURCE
		Lab ID	CL005	Sample ID	257290KCW0001
Revising Sample Number		Date Sampled	2025-01-28		Date Complete 2025-03-14
Material Code	070300040	Material Name	AGGR # 57	Sample Test Number	1
					Test Method ID FPL318r

Status: COMP — This material has been tested in accordance with MDOT specifications and is satisfactory for use in MDOT projects. MDOT412 East Woodrow Wilson Blvd. Jackson, Mississippi 39216

Sampled From: Pit/Stockpile — Distance From Grade:

Sample Station No.: — Station Offset:

Original Sample Mass =	19450.00	grams
Sample Mass after wash =	19435.00	grams

Sieve Size Used: 14.6 x 22.8 rectangle mesh

Sieve Size	Individual Mass Retained (grams)	Accumulative Mass Retained (grams)	Individual Percent Retained (%)	Allowable Overload Sieve Amounts				Average Temp. of Bath (F°)	Conc. of Bath (gm/mL)	Bath No.
2 inch		0.00		27000						
1 1/2 inch		0.00		20200	1st Cycle	Date	3/3/2025	69.8	1.299	1
1 inch	7069.7	7069.70	36.35%	13500	2nd Cycle	Date	3/5/2025	69.0	1.299	2
3/4 inch	5809.8	12879.50	29.87%	10200	3rd Cycle	Date	3/6/2025	69.5	1.299	2
1/2 inch	5296.7	18176.20	27.23%	6700	4th Cycle	Date	3/10/2025	70.0	1.299	2
3/8 inch	857.1	19033.30	4.41%	5100	5th Cycle	Date	3/11/2025	70.0	1.299	2
No. 4	183.10	19216.40	0.94%	2600						
No. 8		19216.40		1331	Chemical Type Used	Magnesium Sulfate Crystalline - Epson Salt				
No. 16		19216.40		1331						
No. 30		19216.40		1331						
No. 50		19216.40		1331	Check Total 0.3%	Fineness Modulus (FM)				
No. 100		19216.40		1331	99.6%	7.57				
Pan	160.70	19377.10	0.83%							

Fine Aggregate

Passing Sieve	Retained Sieve	Individual % Grading of original sample	Mass of fractions before test (gm)	Mass of fractions after test (gm)	Mass Loss (gm)	% Passing after Test	Weight Average % Loss	Basket / Sieve ID
9.5 mm (3/8 in)	4.75 mm (No. 4)	NA			0.00		NA	
4.75 mm (No. 4)	2.36 mm (No. 8)	NA			0.00		NA	
2.36 mm (No. 8)	1.18 mm (No. 16)	NA			0.00		NA	
1.18 mm (No. 16)	600 µm (No. 30)	NA			0.00		NA	
600 µm (No. 30)	300 µm (No. 50)	NA			0.00		NA	
						Total	NA	
NA								

Coarse Aggregate

Passing Sieve	Retained Sieve	Individual % Grading of original sample	Combined % Grading of original sample	Mass of fractions before test (gm)	Combined Mass Faction (gm)	Mass of fractions after test (gm)	Mass Loss (gm)	% Passing after Test	Weight Average % Loss	Basket / Sieve ID
63 mm (2 1/2 in)	50 mm (2 in)	NA	NA		0.0		0.0	NA	NA	
50 mm (2 in)	37.5 mm (1 1/2 in)	NA								
37.5 mm (1 1/2 in)	25 mm (1 in)	36.35%	66.22%	1016.6	1519.4	1476.9	42.5	2.8%	1.85%	7
25 mm (1 in)	19 mm (3/4 in)	29.87%		502.8						
19 mm (3/4 in)	12.5 mm (1/2 in)	27.23%	27.23%	672.2	1006.1	948.7	57.4	5.7%	1.55%	7
12.5 mm (1/2 in)	9.5 mm (3/8 in)	4.41%		333.9						
9.5 mm (3/8 in)	4.75 mm (No. 4)	0.94%	NA	302.0	302.0	275.2	26.8	8.9%	0.08%	7
# of Pieces larger than 3/4"								Total	3.49%	
Approved for Concrete, HMA, Bituminous Surface Treatments										

Notes:	

#57

L.A. Abrasion

Test Method: AASHTO T96

		Max
Class	B	
Weight Before (g)	5005	
Weight After (g)	4063	
Loss (g)	942	
% Abrasion	19	40

Remarks: Tested by JBA/DC | Passed 03/14/25

C. sand

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Soundness
Test Method: AASHTO T 104

Contract ID: MTL-CENTRAL-OCA | Fed/State Proj. #: MTL-OUT-STATE | FMS Proj. #: AGGREGATE SOURCE
Revising Sample Number: | Lab ID: CL005 | Sample ID: 257290KCW0002
Material Code: 070300043 | Material Name: FINE AGGR | Date Sampled: 2025-01-28 | Sample Test Number: 1 | Date Complete: 2025-03-14 | Test Method ID: FPL318r

Status: COMP — This material has been tested in accordance with MDOT specifications and is satisfactory for use in MDOT projects. MDOT412 East Woodrow Wilson Blvd. Jackson, Mississippi 39216

Sampled From: Pit/Stockpile | Distance From Grade:

Sample Station No.: | Station Offset:

Original Sample Mass =	2570.00	grams
Sample Mass after wash =	2552.30	grams

Sieve Size	Individual Mass Retained (grams)	Accumulative Mass Retained (grams)	Individual Percent Retained (%)	Allowable Overload Sieve Amounts
2 inch		0.00		27000
1 1/2 inch		0.00		20200
1 inch		0.00		13500
3/4 inch		0.00		10200
1/2 inch		0.00		6700
3/8 inch		0.00		5100
No. 4	108.40	108.40	4.22%	2600
No. 8	379.40	487.80	14.76%	1331
No. 16	173.40	661.20	6.75%	1331
No. 30	189.10	850.30	7.36%	1331
No. 50	1198.50	2048.80	46.63%	1331
No. 100		2048.80		1331
Pan	491.70	2540.50	19.13%	

Sieve Size Used: 14.6 x 22.8 rectangle mesh

			Average Temp. of Bath (F°)	Conc. of Bath (gm/mL)	Bath No.
1st Cycle	Date	3/4/2025	69.7	1.299	1
2nd Cycle	Date	3/5/2025	68.9	1.299	1
3rd Cycle	Date	3/6/2025	69.3	1.299	1
4th Cycle	Date	3/10/2025	69.9	1.299	1
5th Cycle	Date	3/11/2025	69.9	1.299	1

Chemical Type Used: Magnesium Sulfate Crystalline - Epson Salt

Check Total 0.3%	Fineness Modulus (FM)
98.9%	2.41

Fine Aggregate

Passing Sieve	Retained Sieve	Individual % Grading of original sample	Mass of fractions before test (gm)	Mass of fractions after test (gm)	Mass Loss (gm)	% Passing after Test	Weight Average % Loss	Basket / Sieve ID
9.5 mm (3/8 in)	4.75 mm (No. 4)	4.22%			0.00			
4.75 mm (No. 4)	2.36 mm (No. 8)	14.76%	100.00	98.55	1.45	1.45%	0.21%	7
2.36 mm (No. 8)	1.18 mm (No. 16)	6.75%	100.10	99.80	0.30	0.30%	0.02%	7
1.18 mm (No. 16)	600 µm (No. 30)	7.36%	100.00	99.60	0.40	0.40%	0.03%	7
600 µm (No. 30)	300 µm (No. 50)	46.63%	100.10	97.76	2.34	2.34%	1.09%	7
						Total	1.35%	

Approved for Concrete, HMA, Bituminous Surface Treatments

Coarse Aggregate

Passing Sieve	Retained Sieve	Individual % Grading of original sample	Combined % Grading of original sample	Mass of fractions before test (gm)	Combined Mass Faction (gm)	Mass of fractions after test (gm)	Mass Loss (gm)	% Passing after Test	Weight Average % Loss	Basket / Sieve ID
63 mm (2 1/2 in)	50 mm (2 in)	NA	NA		0.0		0.0	NA	NA	
50 mm (2 in)	37.5 mm (1 1/2 in)	NA								
37.5 mm (1 1/2 in)	25 mm (1 in)	NA	NA		0.0		0.0	NA	NA	
25 mm (1 in)	19 mm (3/4 in)	NA								
19 mm (3/4 in)	12.5 mm (1/2 in)	NA	NA		0.0		0.0	NA	NA	
12.5 mm (1/2 in)	9.5 mm (3/8 in)	NA								
9.5 mm (3/8 in)	4.75 mm (No. 4)	4.22%	NA		0.0		0.0	NA	NA	
# of Pieces larger than 3/4"								Total	NA	

NA

Notes:

Revised 7-31-13

Physical Laboratory

p. 733 RedBook 2017 Ed.

Type Material	Intended Use	Abrasion Test Maximum Loss (T 96)	Soundness Test Maximum Loss (T 104)	ASR Expansion of mortar bar (C 227)	Dry Rodded Unit Weight	Deleterious Substances Maximum[1]	Material Passing No. 200 Maximum	Fine Modulus Maximum
Coarse Aggregate[2]	Concrete	40 %	15%			0.3-3.0%	1.0-1.5% Uncrushed River Gravel	0.20
Fine Aggregate[3]	Concrete	NA	15%	0.5% @ 6 months 1.0% @ 12 months		0.3-3.0%	2.0%	0.20
Coarse Aggregate[4]	Crushed Stone Courses / Crushed Concrete	45%			70 lb/ft^3		10%	
Coarse Aggregate[5]	Hot Mix Asphalt	45%	20%		70-90 lb/ft^3		10%	
Coarse Aggregate[6]	Granular Materials	50%						
Coarse Aggregate[7]	Expanded Clay (i.e. chip seal)	40%	15%					

p. 610 redbook

p. 791 Redbook

Note: 1 - Page 610 of the RedBook presents details of deleterious substance maximum limits. Some are for general use and lower limits for bridge superstructures. Thin or elongated pieces maximum is 15.0% for deleterious substances, 2 – Coarse Aggregate for concrete on Pages 609-611 RedBook, 3 – Fine Aggregate for Concrete on Pages 607-609 RedBook, 4 – Aggregate for Crushed Stone Courses on Pages 611-612, 5 – Aggregate for Hot Mix Asphalt on Pages 612-612, 6 – Aggregate for Granular Material such as shoulder gravel on Pages 614-615, 7 – Expanded Clay used as chip seal Page 623.