



# CONSTRUCTION TESTING & ENGINEERING, INC.

P.O. BOX 271125, SALT LAKE CITY, UTAH 84127-1125  
(801) 972-4001 • Construction.Testing@gmail.com

## SOIL MOISTURE-DENSITY RELATIONSHIP

<b>CLIENT:</b>	Lakeview Rock Products	<b>DATE:</b>	March 24, 2021 Wed.
<b>PROJECT:</b>	QC Testing, Lower "Mid" Pit	<b>WORK ORDER:</b>	4737
<b>CONTRACTOR:</b>	Lakeview Rock Products	<b>FILE:</b>	125-1
<b>TEST METHOD:</b>	ASTM D 1557, Method D (corrected for oversize [+3/4"] particles per ASTM D 4718, ASTM C 127)		

### PROCTOR DATA

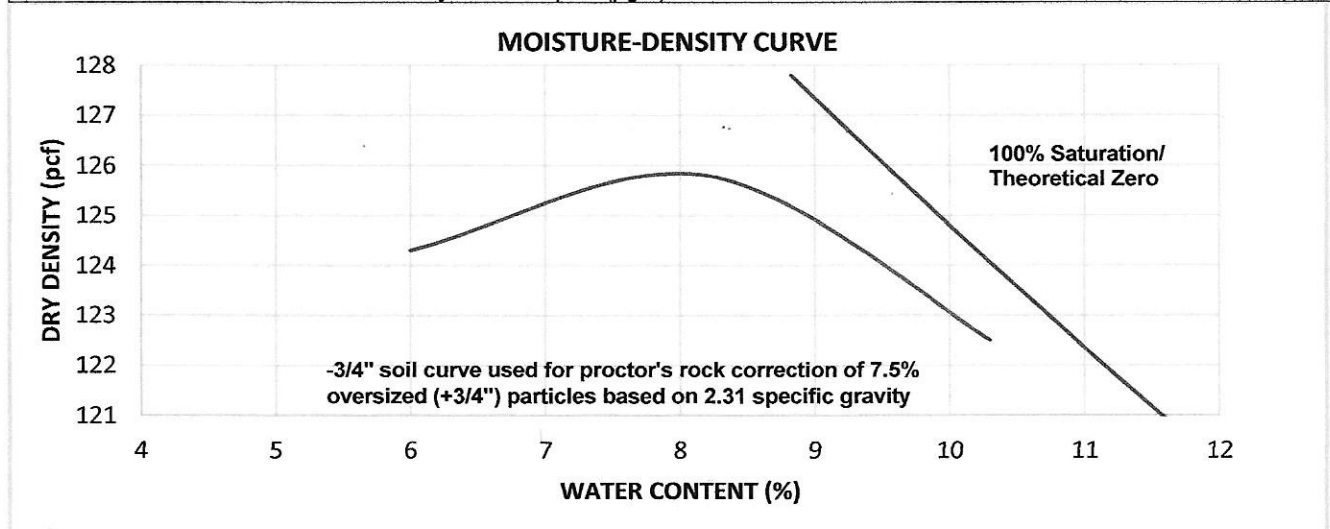
<b>SOURCE OF MATERIAL:</b>	Lower "Mid" Pit Stockpile
<b>Oversized Particle Corrected MAXIMUM DRY DENSITY(PROCTOR RESULT):</b>	127.0
<b>Oversized Particle Corrected OPTIMUM MOISTURE CONTENT (PROCTOR RESULT):</b>	7.9
<b>-3/4" MAXIMUM DRY DENSITY:</b>	125.8
<b>-3/4" OPTIMUM MOISTURE CONTENT:</b>	8.0
<b>MOISTURE CONTENT AS RECEIVED:</b>	6.6

### QUALITATIVE / PHYSICAL SOIL DESCRIPTION (ASTM D 2487 / D 2488):

#### 1-1/2" Recycled Concrete Road Base/Base Course:

Coarse-grained soil comprised of 47.5% well-graded, angular (crushed) minus 1-1/2" concrete fragments ("gravel") 43.9% well-graded angular sand; and 8.6% non-plastic silt. Soil color: Medium to grey-brown at optimum moisture; light to medium grey when dry.

Note: See related/attached sieve analysis test report (pg 2).



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CERTIFIED TEST REPORT:

David K. Megeath, Manager



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## SOILS TEST REPORT

CLIENT: Lakeview Rock Products

DATE: March 24, 2021, Wed.

PROJECT: QC Testing, Lower "Mid" Pit

FILE #: 125 WO #: 4737

RE: 1-1/2" Recycled Concrete Road Base/Base Course

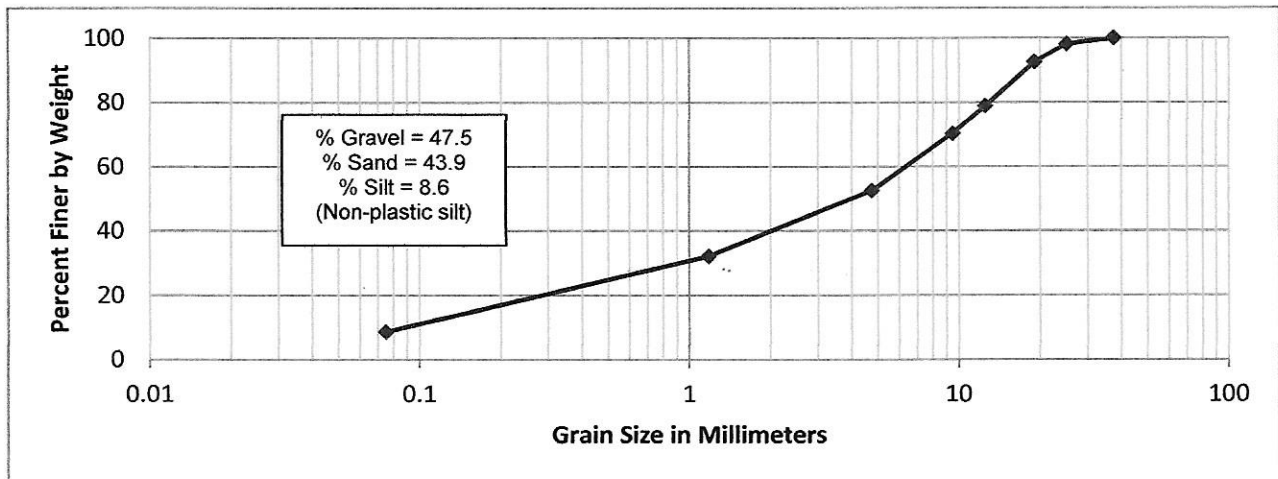
SPECIFICATION REQUIREMENTS: NA (State lean concrete base course Table 3 used as reference)

### SIEVE ANALYSIS RESULTS

ASTM C 117 / C 136

Sieve Size	Sieve Opening in mm	Individual % Retained	Accumulated % Retained	**RESULTS** % Passing	Ideal/Tolerance Gradation % Passing
1-1/2"	37.5	0	0	100	100
1"	25.0	1.9	1.9	98.1	90-100
3/4"	19.0	5.6	7.5	92.5	70-85
1/2"	12.5	13.6	21.1	78.9	65-80
3/8"	9.5	8.5	29.6	70.4	55-75
#4	4.75	17.9	47.5	52.5	40-65
#16	1.18	20.4	67.9	32.1	25-40
#200	.075	23.5	91.4	8.6	7-11

Test sample dry weight: 4846 grams



### REMARKS:

Source of material: Lower "Mid" Pit stockpile  
Gravel and sand physical characteristics: Angular (crushed)  
See related/attached proctor test report (pg 1).

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