



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:

- Atlanta
- Daytona Beach
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- Tampa
- Tifton
- West Palm Beach

Client: Razor Back Mining Co

Project No.: NEW

Report No.: PR#3

Date: March 7, 2022

Project: Leonard Lee Pit

MODIFIED PROCTOR REPORT ASTM D 1557 (B)

Date Sampled: 2/24/2022

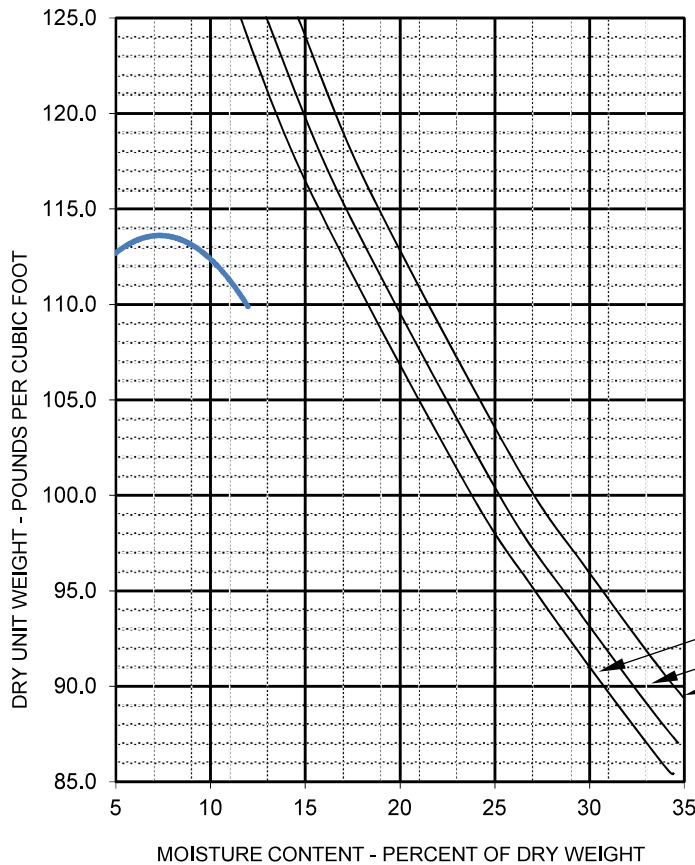
Date Tested: 2/25/2022

Workorder No.: N/A

Sampled By: N/A

Sample No.: N/A

Rammer Type: Mechanical



Proctor	
Maximum Density (pcf)	113.6
Optimum Moisture (%)	7.3
Soil Classification	
Percent Passing 200 (ASTM D1140)	6.40
Soil Classification (ASTM D2487)	N/A
Plasticity Index (ASTM D4318)	N/A
Organic Content (ASTM D2974)	1.8
pH (ASTM D4972)	6.24

Soil Description: Dark Soil

Location: Cell # 1

This report has been reviewed by the UES Engineer of Record. The intent of this report is to provide testing information in an Expedient manner. A signed / sealed cover page for all tests reports can be provided at the completion of the project and / or at the request of the client.

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Project:

Leonard Lee Pit

Fine Aggregate Sieve w/ 200 Wash Correction

Sample #: Cell#1 PR#3

Date Sampled: 2/24/2022

Date Tested: 2/28/2022

Tested By: N. Clark

Description: Dark Soil

Weight of Dry Soil:

159.82

Weight Passing 200 Wash:

10.2

SIEVE SIZE	INDIVIDUAL WT. ON SIEVE	INDIVIDUAL % RETAINED	ACCUM. WEIGHT	PERCENT RETAINED	PERCENT PASSING
3 1/2	0	0.00%	0	0.00%	100.00%
4	0	0.00%	0	0.00%	100.00%
10	0	0.00%	0	0.00%	100.00%
40	5.47	3.42%	5.47	3.42%	96.58%
60	19.74	12.35%	25.21	15.77%	84.23%
100	44.13	27.61%	69.34	43.39%	56.61%
200	76.49	47.86%	145.83	91.25%	8.75%
PAN	3.89	2.43%	149.72	93.68%	6.32%
Total 200		0.00%	14.09	91.18%	8.82%

Fineness Modulus

Total Accum.

Weight 159.92

Percent Loss: -0.06