UNIVERSAL ENGINEERING SCIENCES

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

Client: Razorback Mining Co

Project No.: NEW
Report No.: PR#2
Date: March 7, 2022

Project: Leonard Lee Pit

MODIFIED PROCTOR REPORT
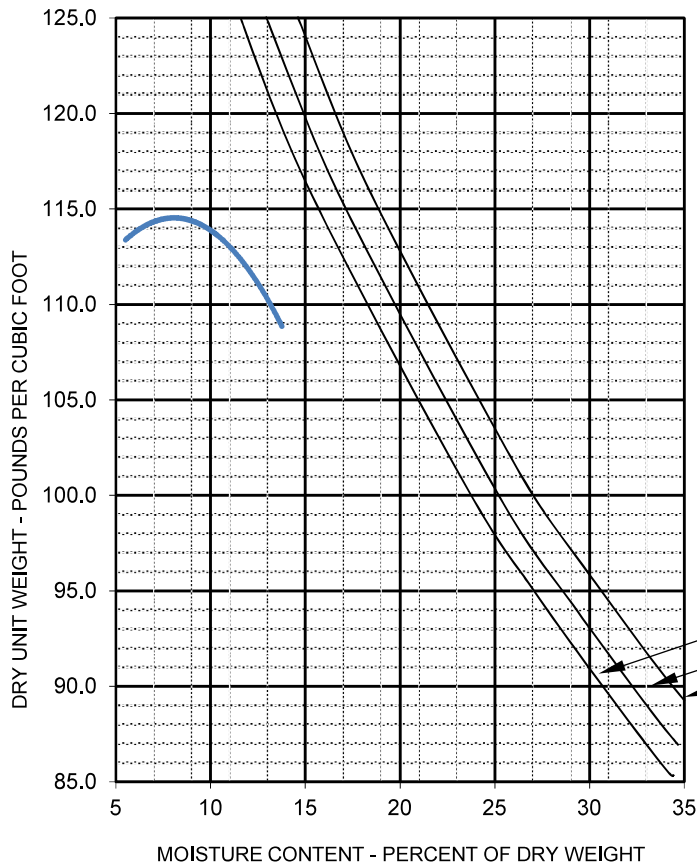## ASTM D 1557 (B)

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)	**114.5**
Optimum Moisture (%)	**8.1**
Soil Classification	
Percent Passing 200 (ASTM D1140)	6.70
Soil Classification (ASTM D2487)	N/A
Plasticity Index (ASTM D4318)	N/A
Organic Content (ASTM D2974)	1
pH (ASTM D1293)	6.71

Soil Description: Light Brown Sand
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 Expeditious 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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Client:	Razorback Mining Co	**Project No.:**	NEW
		Report No.:	PR#2 GRD
		Date:	March 7, 2022
Project:	Leonard Lee Pit		

Fine Aggregate Sieve w/ 200 Wash Correction

Sample #:	Cell #1 PR#2	**Date Sampled:**	2/24/2022
Date Tested:	2/28/2022	**Tested By:**	N. Clark
Description	Light Brown Sand		

Weight of Dry Soil:	164.32
Weight Passing 200 Wash:	11.09

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	11.45	6.97%	11.45	6.97%	93.03%
60	26.95	16.40%	38.4	23.37%	76.63%
100	48.57	29.56%	86.97	52.93%	47.07%
200	62.81	38.22%	149.78	91.15%	8.85%
PAN	3.25	1.98%	153.09	93.17%	6.83%
Total 200		0.00%	14.34	91.27%	8.73%

Fineness Modulus

Total Accum. Weight	164.12
Percent Loss:	0.12