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Soil / Aggregate Test Report

Client **SEFTON ENGINEERING CONSULTANTS**
40 STUTZ BEARCAT DRIVE
SEDONA, AZ 86336

Date of Report **10/22/21** Page **1** of **1**
Job No. **2541JD420**
Event No. **1** Lab No. **16646**
Authorized By **CROCKETT SALINE** Date **10/13/21**
Sample Location Designated By **C. Saline** Date **10/12/21**
Sampled By **C. Saline** Date **10/12/21**
Submitted By **E. Saline** Date **10/14/21**

Project **ALKEMISTA BREWERY AND COFFEE ROASTING**
Project Address **26 GOODROW LN, SEDONA, AZ**
Material Description **Red sandy silt**
Material Use **Soils classification**
Material Source **Native**
Sample Location **34 Deg. 51 Min. 51.46 Sec North, 111 Deg. 47 Min. 52.17 Sec. West; 8 to 18 inches below existing surface**
Special Instructions

Sieve analysis **ASTM C136**
Finer Than No. 200 **ASTM C117, Procedure B**

Sieve	Accumulative % passing	Specification
6 in.		
4 in.		
3 in.		
2 in.		
1-1/2 in.		
1 in.		
3/4 in.		
1/2 in.		
3/8 in.		
1/4 in.		
No. 4		
No. 8		
No. 10		
No. 16		
No. 30	**100**	
No. 40	**99**	
No. 50	**99**	
No. 100	**90**	
No. 200	**66**	

Laboratory compaction characteristics — Method

Sample Preparation
Rammer Used

Proctor curve Id. No.
Maximum dry unit weight, lbf/ft3
Optimum water content, %

Oversize Aggregate
Bulk specific gravity
Absorption, %
Oversize in laboratory sample, %

Dry unit weight, lbf/ft^3

Water content, %

		Result	Specs.
Liquid Limit, Plastic Limit & Plasticity Index			
Preparation method	**Oven-dried**		
Processing method	**ASTM D4318, Dry Preparation**		
Liquid Limit	**ASTM D4318, Method B** LL	**NV**	
Plastic Limit	**ASTM D4318** PL		
Plasticity Index	**ASTM D4318** PI	**NP**	
Water Content	% dry weight		
Swell Test	Surcharge psf Expansion, %		
Compacted to approximately	of ASTM Method		
Initial water content %	Dry unit weight lbf/ft^3		
Organic Matter	%		
Unified Soil Classification **ASTM D2487**			
Group Symbol: **ML**	Name: **Sandy silt**		

		Result	Specs.
Los Angeles (LA) Abrasion	Grading rev., % loss Grading rev., % loss		
Fractured Faces By Weight	One or more, % Two or more, %		
Total Salts (Solubility)	%		
Sulfates	%		
Chlorides			
pH Determination	pH		
Minimum Resistivity	ohm-cm		
Expansion Index of Soil	EI		
	Initial dry unit weight, lbf/ft^3 Initial degree of saturation		
Initial water content, %	Final water content, %		

Comments:

Registered Professional Engineer (Civil) CERTIFICATE NO. 11860 CRAIG P. WIEDEMAN Date Signed 4/22/21 ARIZONA U.S.A.

Reviewed By **CRAIG WIEDEMAN, P.E.**