



ISLAND GEOTECHNICAL ENGINEERING

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Date: 22 May 2023

To: **Dwight Galbi**
Kapalua, Maui

From: Island Geotechnical Engineering
330 Ohukai Rd., Unit #119 Kihei,
96753, Maui, Hawaii

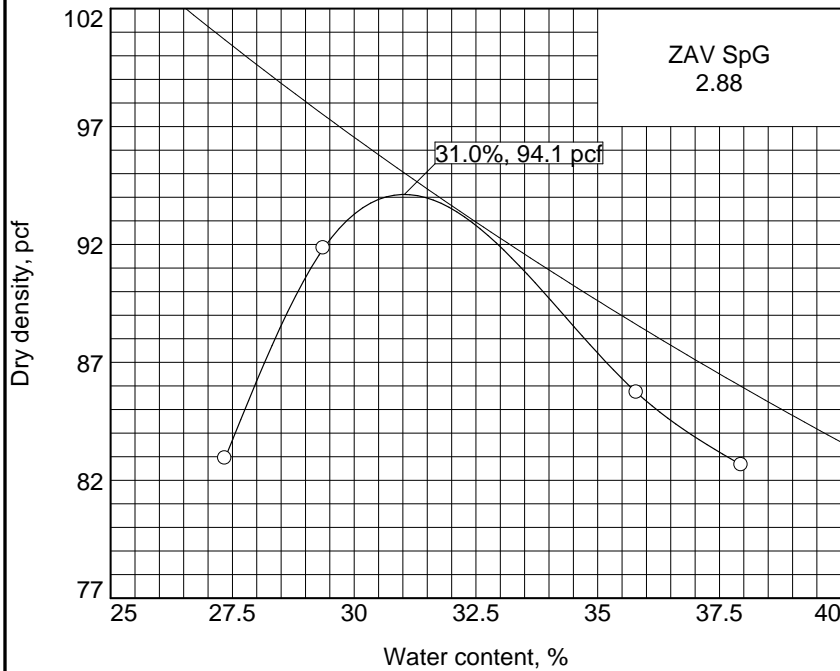
Re: Proctor compaction test and grain
size analysis results for onsite
material at Mahana Estates, Lot 34
on 5/16/23, Job #222217-TM

TRANSMITTAL

Submittal:

1. Proctor compaction and grain size analysis results for onsite material.

COMPACTION TEST REPORT



Preparation Method _____	
Rammer: Wt. <u>10 lb.</u>	Drop <u>18 in.</u>
Type _____	
Layers: No. <u>five</u>	Blows per <u>25</u>
Mold Size <u>0.03333 cu. ft.</u>	
Test Performed on Material	
Passing <u>3/8 in.</u> Sieve	
%>3/8 in. <u>0.0</u>	%<No.200 <u>97.2</u>
Atterberg (D 4318): LL _____ PI _____	
NM (D 2216) _____ Sp.G. (D 854) _____	
USCS (D 2487) _____	
AASHTO (M 145) _____	
Date: Sampled <u>5/16/23</u>	
Received <u>5/16/23</u>	
Tested <u>5/17/23</u>	
Tested By <u>TM</u>	

COMPACTION TESTING DATA ASTM D 1557-91 Procedure B Modified

	1	2	3	4	5	6
WM + WS	12.82	13.26	13.18	13.10		
WM	9.30	9.30	9.30	9.30		
WW + T #1	1246.8	952.1	1340.5	1195.3		
WD + T #1	1046.8	806.0	1070.6	953.1		
TARE #1	315.5	308.6	316.6	314.9		
WW + T #2						
WD + T #2						
TARE #2						
MOIST.	27.3	29.4	35.8	38.0		
DRY DENS.	82.9	91.8	85.7	82.6		

SIEVE TEST RESULTS

Opening Size	% Passing	Specs.
#4	100.0	
#20	99.7	
#40	99.5	
#60	99.3	
#200	97.2	

TEST RESULTS

Maximum dry density = 94.1 pcf
Optimum moisture = 31.0 %

Material Description

Reddish brown SILT W/ roots

Remarks:

- Performed Wet sieve on a representative soil sample prior to performing ASTM 1557

Project No. 222217-TM **Client:**

Project: Mahana Estates Lot 34

○ **Depth:** onsite **Sample Number:** 1

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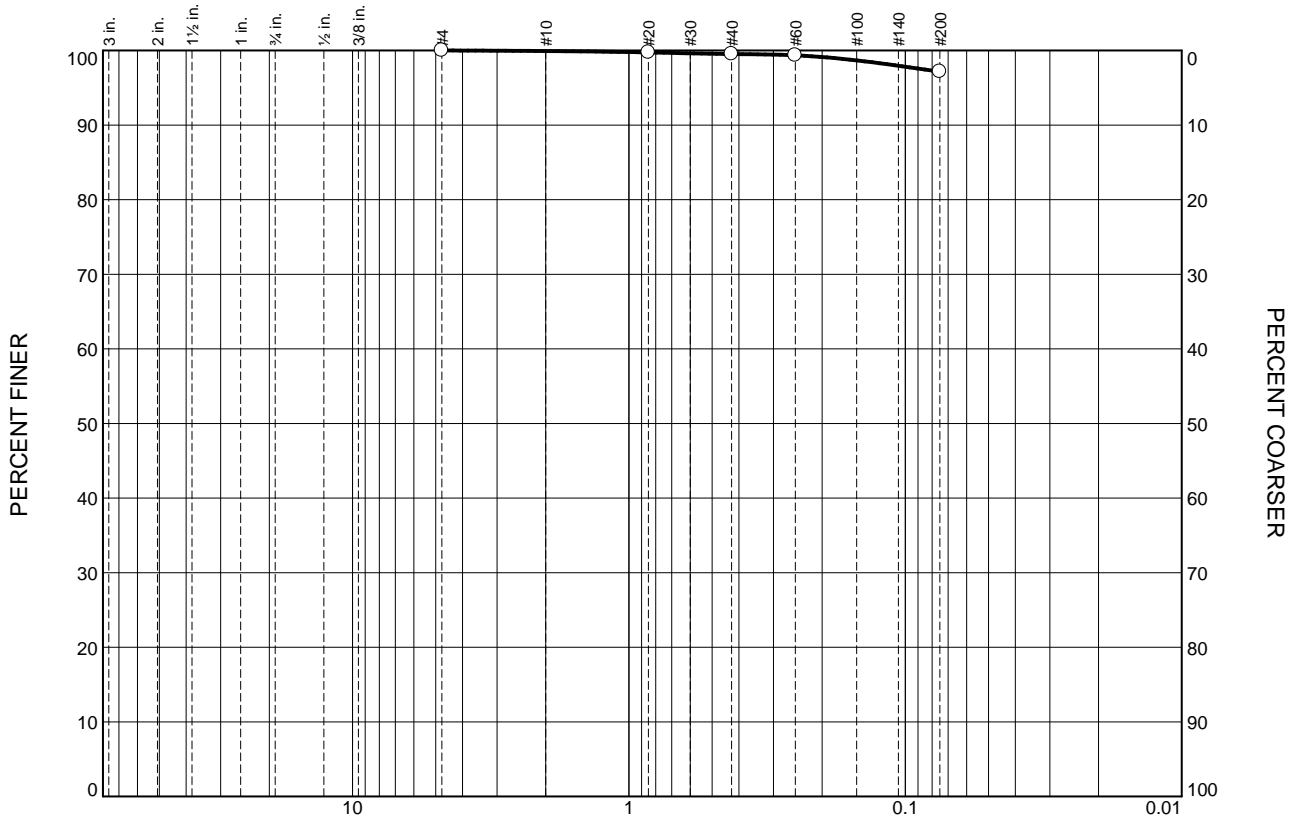
Kihei, Hawaii

Checked by: _____

Title:

Figure

SIEVE ANALYSIS



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.4	2.3	97.2	

SOIL DATA					
SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○		1	onsite	Reddish brown SILT W/ roots	

**Island Geotechnical
Engineering
Kihei, Hawaii**

Client:
Project: Mahana Estates Lot 34
Project No.: 222217-TM

Figure

Tested By: TM