



**ASTM D6938 In-Place Density and Water Content of Soil and  
Soil-Aggregate by Nuclear Methods (Shallow Depth)**

**Project: Fairbanks Temple  
Fairbanks, AK  
Client: Westland**

**Project #: 2025-110  
Date: October 3, 2025  
Area Tested: Ancillary Building/ Lift 4 retest**

**Material / Source:  
Pitrun/ Van Horn 144.1**

**Gauge: Instrotek 3500 Ser: # 1019  
Operator: Ben Marth**

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	pitrun	8	3	Ancillary Building (see map)	150.8	9.5	137.7	144.1	95.6%	95%
2	pitrun	8	3	Ancillary Building (see map)	150.7	10.0	137.0	144.1	95.1%	95%
3	pitrun	8	3	Ancillary Building (see map)	151.7	9.9	138.0	144.1	95.8%	95%
4	pitrun	8	3	Ancillary Building (see map)	150.3	9.2	137.6	144.1	95.5%	95%
5	pitrun	8	3	Ancillary Building (see map)	153.0	11.2	137.6	144.1	95.5%	95%
6	pitrun	8	4	Ancillary Building (see map)	147.7	13.6	130.0	144.1	90.2%	95%
7	pitrun	8	4	Ancillary Building (see map)	146.0	13.2	129.0	144.1	89.5%	95%
8	pitrun	8	4	Ancillary Building (see map)	147.7	12.9	130.8	144.1	90.8%	95%
9	pitrun	8	4	Ancillary Building (see map)	145.9	14.3	127.6	144.1	88.6%	95%
10	pitrun	8	4	Ancillary Building (see map)	145.1	13.3	128.1	144.1	88.9%	95%
11	pitrun	8	4	Lift 4 Retest (see map)	150.5	8.9	138.2	144.1	95.9%	95%
12	pitrun	8	4	Lift 4 Retest (see map)	150.3	8.5	138.5	144.1	96.1%	95%
13	pitrun	8	4	Lift 4 Retest (see map)	151.0	9.7	137.6	144.1	95.5%	95%
14	pitrun	8	4	Lift 4 Retest (see map)	153.7	8.5	141.7	144.1	98.3%	95%
15	pitrun	8	4	Lift 4 Retest (see map)	149.7	9.1	137.2	144.1	95.2%	95%
16	pitrun	8	5	Lift 4 Retest (see map)	150.2	7.8	139.3	144.1	96.7%	95%
17	pitrun	8	5	Lift 4 Retest (see map)	149.8	8.5	138.1	144.1	95.8%	95%
18	pitrun	8	5	Lift 4 Retest (see map)	148.1	6.7	138.8	144.1	96.3%	95%
19	pitrun	8	5	Lift 4 Retest (see map)	148.4	7.4	138.2	144.1	95.9%	95%



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20	pitrun	8	5	Lift 4 Retest (see map)	148.9	8.3	137.5	144.1	95.4%	95%

Approved By: Stefan Mack Stefan Mack PE, Lab Manager

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