

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

Project: Fairbanks Temple
Fairbanks, AK
Client: The Chruch of Jesus Christ of Latter-Day Saints

Project #: 2025-110
Date: July 8, 2026
Area Tested: Temple/ Meeting House

Material / Source:
3" pitrun/ Van Horn 141.0

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

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	pitrun	12"	1	Temple/ Exterior Backfill	143.7	5.6	136.1	141.0	96.5%	95%
2	pitrun	12"	1	Temple/ Exterior Backfill	147.3	5.2	140.0	141.0	99.3%	95%
3	pitrun	12"	1	Temple/ Exterior Backfill	145.6	6.1	137.2	141.0	97.3%	95%
4	pitrun	12"	1	Temple/ Exterior Backfill	147.5	5.9	139.3	141.0	98.8%	95%
5	pitrun	12"	1	Temple/ Exterior Backfill	141.1	4.6	134.9	141.0	95.7%	95%
6	pitrun	12"	1	Temple/ Exterior Backfill	148.1	6.0	139.7	141.0	99.1%	95%
7	pitrun	12"	1	Temple/ Exterior Backfill	145.7	5.3	138.4	141.0	98.1%	95%
8	pitrun	12"	1	Temple/ Exterior Backfill	140.0	4.3	134.2	141.0	95.2%	95%
9	pitrun	12"	1	Meeting House/ Interior Backfill	141.6	5.5	134.2	141.0	95.2%	95%
10	pitrun	12"	1	Meeting House/ Interior Backfill	146.3	5.8	138.3	141.0	98.1%	95%
11	pitrun	12"	1	Meeting House/ Interior Backfill	143.4	5.1	136.4	141.0	96.8%	95%