



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

**Project: RAISCO
Fairbanks, AK
Client: Heritage General**

**Project #: 2026-014
Date: May 29, 2026
Area Tested: Blending Facility Backfill**

**Material / Source:
Pitrun/ Metro 144.1**

**Gauge: Instrotek 3500 Ser: # 1903
Operator: Markus Mack**

| Test # | Soil Type | Test Depth(in) | Lift Elev | Location | Wet Density | % Moist. | Dry Density | Max Density | Percent Density | Required Density |
|--------|-----------|----------------|-----------|--|-------------|----------|-------------|-------------|-----------------|------------------|
| 1 | pitrun | 12" | 2 | Blending Facility backfill ELE 434.4 Northwest | 148.6 | 6.0 | 140.2 | 144.1 | 97.3% | 95% |
| 2 | pitrun | 12" | 2 | Blending Facility backfill Northeast | 145.3 | 4.7 | 138.8 | 144.1 | 96.3% | 95% |
| 3 | pitrun | 12" | 2 | Blending Facility backfill Center East | 147.1 | 6.1 | 138.6 | 144.1 | 96.2% | 95% |
| 4 | pitrun | 12" | 2 | Blending Facility backfill Center West | 147.3 | 5.4 | 139.8 | 144.1 | 97.0% | 95% |
| 5 | pitrun | 12" | 2 | Blending Facility backfill Southwest | 143.9 | 4.9 | 137.2 | 144.1 | 95.2% | 95% |
| 6 | pitrun | 12" | 2 | Blending Facility backfill Southeast | 143.9 | 4.9 | 137.2 | 144.1 | 95.2% | 95% |