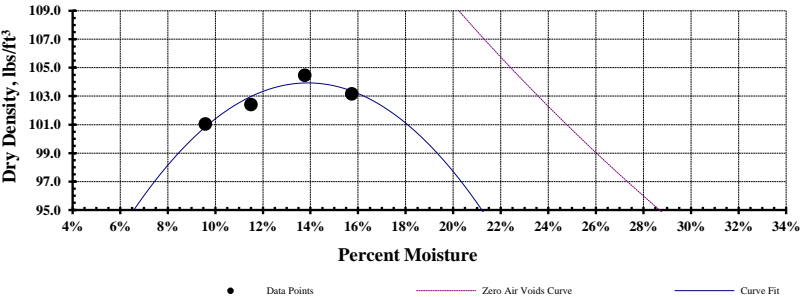


Special Testing Lab, Inc.
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Proctor Report

| Date Tested: 02/20/25 Project: Lawton Adams Sample #: 25S0019B Client: Lawton Adams Material: Onsite Date Issued: 02/27/25 <small>The data presented on this report relates only to the material sample tested.</small> Color: Gray Lab Tech: BS ASTM D-2487, Unified Soils Classification System SW, Well-graded Sand with Gravel | | | | | | Sieve Size Specifications US mm Max Min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------------|---------------------------------------|--|---------------------------------|---|-----------------|---------------------|---------------------------------------|--------------------------------------|------------------------|-----------------------|-------|-------|-------|-------|-------|---------------------------------|--|--|---|--------------------------|--|-------------------------------|---------------------------|--------------|-------|-------|-------|-------|-------|----------------------------|-------------|-----|-------|-------|-------|-------|--|--|--|--|--|--|
| Sample Prepared: Moist: X Manual: _____ Dry: _____ Mechanical: X Test Standard: AASHTO T 99: _____ AASHTO T 180: _____ Method ASTM D 698-12e2: _____ ASTM D 1557-12e1: X C | | | | | | 4.00" 101.6 100.0 % 3.50" 88.9 100.0 % 3.00" 75.0 2.50" 63.0 2.00" 50.0 1.75" 45.0 1.50" 37.5 100.0 % 1.25" 31.5 1.00" 25.0 7/8" 22.4 3/4" 19.0 100.0 % 5/8" 16.0 1/2" 12.5 3/8" 9.5 1/4" 6.3 70.1 % #4 4.750 60.7 % #8 2.360 #10 2.000 39.0 % #16 1.180 #20 0.850 #30 0.600 #40 0.425 14.5 % #50 0.300 #60 0.250 #80 0.180 #100 0.150 4.4 % #140 0.106 #170 0.090 #200 0.075 1.8 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Assumed Sp. Gr. 2.70</th> <th style="text-align: left;">Point Number</th> <th style="text-align: left;">Percent Moisture</th> <th style="text-align: left;">Dry Density lbs/ft³</th> <th style="text-align: left;">Dry Density Kgs/m³</th> <th style="text-align: left;">Maximum Dry Density</th> <th style="text-align: left;">Optimum % Moisture</th> </tr> <tr> <td></td> <td>1</td> <td>11.5%</td> <td>102.4</td> <td>1,641</td> <td>103.9 lbs/ft³</td> <td>13.9 %</td> </tr> <tr> <td></td> <td>2</td> <td>13.8%</td> <td>104.5</td> <td>1,674</td> <td>Corrected Density:</td> <td>103.9</td> </tr> <tr> <td></td> <td>3</td> <td>15.7%</td> <td>103.2</td> <td>1,653</td> <td>Corrected Moisture:</td> <td>13.9</td> </tr> <tr> <td></td> <td>4</td> <td>9.6%</td> <td>101.0</td> <td>1,619</td> <td></td> <td></td> </tr> </table> | | | | | | Assumed Sp. Gr. 2.70 | Point Number | Percent Moisture | Dry Density lbs/ft ³ | Dry Density Kgs/m ³ | Maximum Dry Density | Optimum % Moisture | | 1 | 11.5% | 102.4 | 1,641 | 103.9 lbs/ft³ | 13.9 % | | 2 | 13.8% | 104.5 | 1,674 | Corrected Density: | 103.9 | | 3 | 15.7% | 103.2 | 1,653 | Corrected Moisture: | 13.9 | | 4 | 9.6% | 101.0 | 1,619 | | | | | | |
| Assumed Sp. Gr. 2.70 | Point Number | Percent Moisture | Dry Density lbs/ft ³ | Dry Density Kgs/m ³ | Maximum Dry Density | Optimum % Moisture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 11.5% | 102.4 | 1,641 | 103.9 lbs/ft³ | 13.9 % | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 13.8% | 104.5 | 1,674 | Corrected Density: | 103.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 15.7% | 103.2 | 1,653 | Corrected Moisture: | 13.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 9.6% | 101.0 | 1,619 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Moisture Density Relationship  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASTM D-4718, Correction for Oversize Particles | | | | | | % Retained 3/4" 0.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">% Retained 3/4" Sieve</th> <th style="text-align: left;">Corrected Density lbs/ft³</th> <th style="text-align: left;">Optimum Kgs/m³</th> <th style="text-align: left;">Moisture</th> </tr> <tr> <td>5%</td> <td>106.0</td> <td>1,698</td> <td>13.2%</td> </tr> <tr> <td>10%</td> <td>108.1</td> <td>1,731</td> <td>12.5%</td> </tr> <tr> <td>15%</td> <td>110.3</td> <td>1,767</td> <td>11.9%</td> </tr> </table> | | | % Retained 3/4" Sieve | Corrected Density lbs/ft ³ | Optimum Kgs/m ³ | Moisture | 5% | 106.0 | 1,698 | 13.2% | 10% | 108.1 | 1,731 | 12.5% | 15% | 110.3 | 1,767 | 11.9% | <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">% Retained 3/4" Sieve</th> <th style="text-align: left;">Corrected Density lbs/ft³</th> <th style="text-align: left;">Optimum Kgs/m³</th> <th style="text-align: left;">Moisture</th> </tr> <tr> <td>20%</td> <td>112.6</td> <td>1,803</td> <td>11.2%</td> </tr> <tr> <td>25%</td> <td>114.9</td> <td>1,841</td> <td>10.5%</td> </tr> <tr> <td>30%</td> <td>117.4</td> <td>1,881</td> <td>9.9%</td> </tr> </table> | | | % Retained 3/4" Sieve | Corrected Density lbs/ft ³ | Optimum Kgs/m ³ | Moisture | 20% | 112.6 | 1,803 | 11.2% | 25% | 114.9 | 1,841 | 10.5% | 30% | 117.4 | 1,881 | 9.9% | | | | | | | |
| % Retained 3/4" Sieve | Corrected Density lbs/ft ³ | Optimum Kgs/m ³ | Moisture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <small>Copyright Spears Engineering & Technical Services PS, 1996-2005</small> | | | | | | Specs: Meets Specs? 0 STL Standard General % Gravel: 39.3% D ₍₁₀₎ : 0.000 % Sand: 58.9% D ₍₃₀₎ : 0.000 % Silt&Clay: 1.8% D ₍₆₀₎ : 0.000 C _c : 1.43 LL: 0.0% C _u : 15.36 PL: 0.0% FM: 0.00 PI: 0.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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