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| **MATT MENU SELECTION - 2** | Louisiana Department of Transportation and Development |  | DOTD 03-22-0745Metric / EnglishRev. 11/98 |
|  | **AGGREGATE TEST REPORT** |  |
| **Metric / English** |  | *(M or E – Located on MATT Menu)* |  |
|  |  |
| **Project No.** |  |  |  |  |  |  |  |  |  |  |  |  | **Material Code** |  |  |  |  | **Lab No.** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Date Sampled** |  |  |  |  |  |  |  |  |  |  |  |  | **Submitted By** |  |  |  |  | Quantity |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Purp Code** |  | **Source Code** |  |  |  |  | **Spec Code** |  |  | P.O. No. |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Date Tested** |  |  |  |  |  |  |  |  | Ident |  |  |  |  |  |  | **Plant Code** |  |  |  |  | Frict. Rating |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ( 1 – 4 ) |
| **Item No.** |  |  |  |  |  |  |  |  |  |  |  |  |  | Date Rec’d (lab) |  |  | Sampled By: |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Remarks 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Tested By |  | Date |  | Checked By |  | Date |  |
|  |
| **DOTD TR 102, 112, 113 & 309** | **DOTD TR 428** |
| **Liquid Limit \_\_\_\_\_\_\_\_\_\_** | **Plastic Limit \_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Unit** |  | 1 = grams 2 = pounds | **No. Blows** |

|  |  |
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 | **Mass cup + Wet Soil, g** |

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|  |  | **●** |  |

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|  |  |  |  |  |  |
| Sievemm In. | Mass (Wt) Retained | %Retained | %Coarser | %Passing | **Mass Cup + Wet Soil, g** |

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|  |  | **●** |  |

 | **Mass cup + Dry Soil, g** |

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|  |  | **●** |  |

 |
| **Mass Cup + Dry Soil, g** |

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|  |  | **●** |  |

 | **Mass Water** |  |
| 63 2 1/2 |

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 |  |  |  | **Mass Water** | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Cup No. \_\_\_\_\_\_\_\_** |  |
|  |  |  |  |  |
| 50 2 |

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 |  |  |  | **Factor** | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Mass Cup, g** |

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|  |  | **●** |  |

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|  |  |  |  |  |
| 37.5 1 1/2 |

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 |  |  |  | **Cup No. \_\_\_\_\_\_\_\_** |  | **Mass Dry Soil** | **\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  |  |  |  |  |
| 31.5 1 1/4 |

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 |  |  |  | **Mass Cup, g** |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **●** |  |

 | **% Moisture** | **\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  |  |  |  |  |
| 25.0 1 |

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 |  |  |  | **Mass Dry Soil** | **\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Plasticity Index** \_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |
| 19.0 3/4 |

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 |  |  |  | **% Moisture** | **\_\_\_\_\_\_\_\_\_\_\_\_\_**  |
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| --- | --- | --- | --- | --- | --- |
| **Absorption, % (T84 or T85)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Spec Grav SSD (T84 or T85)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Spec Grav APP (TR 300)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Effective Spec Grav (TR 300)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Opt Moist Content, % (TR 418)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Maximum Density (TR 418) kg/m³ (lb/ft³)** |  |  |  |  |  |
|  |  |  |  |  |
| **Lab Comp Method (TR 418)** |  |  |  |  |  |
|  |  |  |  |  |
| **Cement, % (TR 432 or SPECIFIED)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Lime, % (TR 416 or SPECIFIED)** |  |  |  |  |  |
|  |  |  |  |  |
| **Other (Additive) Code** |  |  |  |  | **%** |  |  |  |  |  |
|  |  |  |  |  |  | ● |  |  |
| **Clay Lumps, % (TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Friable Particles, % (TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Clay Lumps & Friable Particles %(TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Flat or Elongated Part, %(TR 119)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Coal & Lignite, % (TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Glassy Particles, % (TR 119)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Iron Ore, % (TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Wood, % (TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Total (Clay Lumps, Fri.Part.,Iron Ore,** **Coal & Lignite, Wood),%(TR 119)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Foreign Matter, % (TR 109)** |  |  |  |  |  |
|  |  |  |  |  |
| **Clam Shell, % (TR 110)** |  |  |  |  |  |
|  |  |  |  |  |
| **Soundness, % Loss (T 104)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Abrasion, % Loss (T 96)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Colorimetric Test (1=Pass, 2=Fail) (T 21)** |  |  |  |  |  |
|  |  |  |  |  |
| **Asphalt Content, % (TR 307)** |  |  |  |  |  |
|  |  |  |  |  |
| **Retained Asphalt Coating, % (TR 317)** |  |  |  |  |  |
|  |  |  |  |  |
| **Percent Crushed (TR 306)** |  |  |  |  |  |
|  |  |  |  |  |
| **Retained Marshall Stability (TR 313)** |  |  |  |  |  |
|  |  |  |  |  |
| **Resistivity, ohm – cm (TR 429)** |  |  |  |  |  |
|  |  |  |  |  |
| **pH (TR430)** |  |  |  |  |  |
|  |  | ● |  |  |
| **Organic Content, % (TR 413)** |  |  |  |  |  |
|  | ● |  |  |  |
| **Sand Equivalent (TR 120)** |  |  |  |  |  |
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| 16.0 5/8 |

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| 12.5 1/2 |

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| 9.5 3/8 |

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| 4.75 No. 4 |

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|  |
| Mass (Wt) Matl.in Pan |

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|  |
| Accum. Total |  |  |  |  |
|  |  |  |  |  |
| Initial Dry Total Mass, (Wt) |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

 | % Diff: |
|  |  |  |
| **Unit** |  | 1 = grams 2 = pounds |  |
|  |  |
|  |  |  |
| Sievemm/µm No. | Mass (Wt) Retained | %Retained | %Coarser | %Passing |
| 2.36 8 |

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| 2.00 10 |

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| 1.18 16 |

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|  |
| 600 30 |

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| 425 40 |

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| 300 50 |

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| 180 80 |

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| 150 100 |

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| 75 200 |

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| 53 270 |

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|  |
| Mass (Wt) Matl.in Pan |

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|  |
| Decant Loss |  |  |  |  |
|  |  |  |  |  |
| Accum. Total |  |  |  |  |
|  |  |  |  |  |
| Initial Dry Total Mass, (Wt) |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |

 | % Diff:  |
|  |  |
| Dry Mass (Wt) After Wash |

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| Remarks 2: |  |  |
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|   **SPECIFIC GRAVITY AND ABSORPTION OF COARSE AGGREGATE** (AASHTO T85)Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |  | **PERCENT FOREIGN MATTER** (DOTD TR 109)Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |  |  | **PERCENT CLAM SHELL** (DOTD TR 110)Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |
|  |  |  | $$\frac{B}{B-C}$$ | $$\frac{B-A}{A} × 100$$ |  |  |  | A + D |  | D – E | $$\frac{A+C}{B} × 100$$ |  |  | $$\frac{B}{A} × 100$$ |  |  |
| A | B | C |  |  |  |
| Mass of Oven Dry Test Sample in Air, g | Mass of Saturated Surf-Dry Test Sample in Air, g | Mass of Saturated Test Sample in Water, g | Bulk Spec Grav (Saturated-Surf-Dry) | Absorption, % |  | A | D | B | E | C | F |
|  | Mass of Material Removed by Hand | Mass of Dried Portion | Mass Total Sample | Mass of Portion After Wash, Dry | Mass of Material Removed by Wash | Foreign Matter, % | A | B | C |  |  |
|  | Mass Retained 4.75 mm (No. 4) | Mass Clam Shell | Clam Shell, % |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  **APPARENT SPECIFIC GRAVITY** (DOTD TR 300)Tested By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **Coarse Aggregate** |  |  |  |  | **Fine Aggregate** |  |  |  |  |  |  | **Combined Coarse and Fine Aggregates** |  |  |  |  |  |  **EFFECTIVE SPECIFIC GRAVITY** (DOTD TR 300)Tested By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |  |  |  |  |  |  |
|  |  | a - b | a/c |  |  |  | a - b |  | d/(498.6 – c + a) |  | (100 – F) D | (F) E | G + H |  |  | $$\frac{B-A}{B} × 100$$ |  |  | $$\frac{B}{D+B-E}$$ | 100 - C |  | $$\frac{X}{\frac{100}{F} - \frac{C}{H}}$$ |
| a | b | c | D |  | a | b | d | c | E | F | G | H | I | A | B | C | D | E | F | X | H | G |
|  Mass in Air |  Mass in Water |  Difference |  Apparent Specific Gravity |  Flask No. |  Mass of Flask & Dry Sand |  Mass of Flask |  Mass of Dry Sand |  Mass of Flask + Sand + Water |  Apparent Specific Gravity |  % Passing 4.75mm (No. 4) Sieve |  Coarse Spec Grav Portion |  Fine Spec Grav Portion |  Apparent Spec Grav |  Mass of Aggregate |  Mass of Mix |  % Asphalt in Mix |  Mass of Jar + Water |  Mass of Jar + Water + Mix |  Spec Grav of Mix |  % Aggregate in Mix |  Specific Gravity of Asphalt Cement |  Effective Specific Grav of Aggregate |