|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| DOTLOGO2 | | | | | | | | | **Field Soil Compaction (Nuclear)** | | | | | | | | | |
| Airport: | |  | | | | | |  | | Consultant: | | | |  | | | | |
| Illinois Project: | | | |  | | | |  | | Contractor: | | | |  | | | | |
| A.I.P. Project: | | | |  | | | |  | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | Elevation | |
| Test Date | | | | Test No. | Station | Ref. | Type Const. | | | | Type Insp. | | Original ID No. | | | Grnd | Grade | Test |
| A |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| B |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| C |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| D |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| E |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| F |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
| G |  | | |  |  |  |  | | | |  | |  | | |  |  |  |
|  | | | | | | | | | | | | | | | | | | |
| Material Source | | | | Soil Type | Test Method | Opt. H2O | Actual H2O | | | | Standard Proctor | | Actual Density | | | % Std. | Min.  Spec. | Results |
| A |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| B |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| C |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| D |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| E |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| F |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
| G |  | | |  | **NUC** |  |  | | | |  | |  | | |  |  |  |
|  | | | | | | A | B | | | | C | | D | | | E | F | G |
| 1. Moisture Reading C.P.M. A. | | | | | |  |  | | | |  | |  | | |  |  |  |
| B. | | | | | |  |  | | | |  | |  | | |  |  |  |
| C. | | | | | |  |  | | | |  | |  | | |  |  |  |
| Avg. | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Moisture Standard Count | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Moisture Count Ratio (1 / 2) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Density Depth | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Wet Density Reading C.P.M. | | | | | |  |  | | | |  | |  | | |  |  |  |
| A. | | | | | |  |  | | | |  | |  | | |  |  |  |
| B. | | | | | |  |  | | | |  | |  | | |  |  |  |
| C. | | | | | |  |  | | | |  | |  | | |  |  |  |
| Avg. | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Density Standard Count | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Density Count Ratio (5 / 6) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Actual Wet Density #/Cu. Ft. | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Actual Moisture #/Cu. Ft. | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Actual Dry Dens. #/Cu. Ft. (8 - 9) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Actual Moisture (9 / 10) x 100 | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Wt. Mold + Soil | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Wt. Mold | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Net Weight Soil (12 - 13) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Wet Density #/Cu. Ft. | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Dry Density #/Cu. Ft. | | | | | |  |  | | | |  | |  | | |  |  |  |
| **(Moisture Data)** | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Initial Soil / P (Wet) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Final Soil / P (Dry) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Moisture Loss (17 - 18) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Tare Weight | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. Net Dry Soil (18 - 20) | | | | | |  |  | | | |  | |  | | |  |  |  |
| 1. % Moisture (19 / 21) | | | | | |  |  | | | |  | |  | | |  |  |  |
|  | | | | | | | | | | | | | | | | | | |
| Remarks: | | |  | | | | |  | | Inspector: | |  | | | | | | |
|  | | | | | | | | | | | | | | | | | | |
|  | | | | | | | |  | | Res. Engineer: | | | | |  | | | |

The original signed copy of this form must be submitted to the Illinois Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Springfield, IL 62707-8415, Attn: Materials/Construction. To expedite processing, this completed signed form may be scanned and emailed to [aeromatcon@dot.il.gov](mailto:aeromatcon@dot.il.gov) or faxed to 217/785-4533.

AER 17 (Rev. 10/06)

(Formerly AERM-17)