COLORADO DEPARTMENT OF TRANSPORTATION

MOISTURE - DENSITY RELATION

Lab No.	Station	Contract ID	Region	Date Tested

Field Sheet No.	Project No.

Sample ID	Project Location

Type of Compaction

Standard AASHTO T 99 ☐ Method _____

Modified AASHTO T 180 ☐ Method_____

% Soil	% Rock	Soil class. total sample

Maximum dry density ☐ lb/ft³ ☐ Kg/m³ | Optimum moisture %

Trial No.	Sample mass	Water added	Moisture samples	Percent moisture	Compacted wet mass	Density, ☐ lb/ft³ ☐ Kg/m³	
						Wet	Dry
1			Wet_____ Dry_____ Loss_____				
2			Wet_____ Dry_____ Loss_____				
3			Wet_____ Dry_____ Loss_____				
4			Wet_____ Dry_____ Loss_____				
5			Wet_____ Dry_____ Loss_____				
6			Wet_____ Dry_____ Loss_____				

Sieve analysis of - #4

Sieve	Mass	Indiv. %	% Pass.
#4			
#10			
#40			
#200			
- #200			
Total			

Liquid limit

Plastic index

- #4 Soil classification

Bulk sp. gr. and absorption of rock

A_1 = Oven dry Mass in air	
B_1 = S. S. D. Mass in air	
Mass H_2O & beaker	
Mass of beaker	
M = Mass of H_2O	

$\frac{A_1}{M}$ =

Sp. Gr. X 62.4 = ☐ lb/ft³ ☐ Kg/m³

Pcf X .9 = | Pcf X .95 =

Absorption = $\frac{B_1 - A_1}{A_1}$ X 100 = %

Remarks

Tested by (Print name) | Title

Previous editions are obsolete and may not be used.