

NorthEast Transportation Training & Certification Program

Density by Sand Cone Test Report (T 191)

Date/Time:	Lab/Location:	
Weather:	Date Rec'd #:	Random Sample: Yes No
Project:	Lab Login #:	Lot #:
Contract #:	Material ID:	Sublot #:
Contractor:	Material #:	Sample Location:
Pay Item #:	Sample #:	Station:
Source:	Sample Type: OC A-V IA DR Other	Offset:
Plant Type:	Sampled By/Cert. #:	

Calibration and Reference Information

Sand Bulk Density		Sand Mass to Fill Cone	
Volume of Container, ft ³ (A):		Mass Jar, cone & Sand, lb (D):	
Sand Mass to Fill Container, lb (B):		Mass Jar, Cone & Sand after filling cone, lb (E):	
Bulk Density of Sand, lb/ft ³ (C): (B/A)		Mass Sand to Fill Cone, lb (F):	

Density of Soil in Place by the Sand-Cone Method (T 191)

Field Density Test Station:					
Offset:					
Orig. Mass Jar, Cone & Sand, lb (G):					
Final Mass Jar, Cone & Sand, lb (H):					
Mass of Sand Used, lb (I): (G - H)					
Moist Mass, Container & total Material from hole, lb (J):					
Mass Container, lb (K):					
Moist Mass, total material from hole, lb (L): (J - K)					
Wet Mass, Moisture Sample & tin, g (M):					
Mass of tin, g (N):					
Wet Mass Moisture Sample, g (O): (M - N)					
Dry Mass Moisture Sample & Tin, g (P):					
Dry Mass Moisture Sample, g (Q): (P - N)					
Moisture Content, % (R): ((O - Q)/Q)					
Dry Mass of Materials from test hole, lb (S): (L / (1 + R))					
Vol. of Hole, ft ³ (T): (I - F) / C					
Dry Density of Tested Material, lb/ft ³ (U): (S / T)					
Lab Dry Compacted Density, lb/ft ³ (V):					
% Compaction: (100 * U/V)					

Comments:

Tested by:	Reviewed by:
Certification #:	Certification #:
Date:	Date:
Results Within Specification Limits: <input type="checkbox"/>	Results Outside Specification Limits: <input type="checkbox"/>