

Soil Investigation

Bulk Density Data Work Sheet - Auger Technique

Date of Sample Collection: _____ Site: _____

Horizon Number: _____ Horizon Depth: Top _____ cm
Bottom _____ cm

Sample Number 1

- A. Sample Depth: Top _____ cm
B. Sample Depth: Bottom _____ cm
C. Hole diameter: _____ cm
D. Hole volume $\pi \times (C/2)^2 \times (B-A)$: _____ cm³
E. Container weight: _____ g
F. Wet weight of sample: _____ g
G. Dry weight of sample: _____ g
H. Dry soil weight (G-E): _____ g
I. Weight of rocks: _____ g
J. Volume of water without rocks: _____ mL
K. Volume of water and rocks: _____ mL
L. Volume of rocks (K-J): _____ mL (cm³)
M. Bulk density [(H-I)/(D-L)]: _____ g/cm³

Sample Number 2

- A. Sample Depth: Top _____ cm
B. Sample Depth: Bottom _____ cm
C. Hole diameter: _____ cm
D. Hole volume $\pi \times (C/2)^2 \times (B-A)$: _____ cm³
E. Container weight: _____ g
F. Wet weight of sample: _____ g
G. Dry weight of sample: _____ g
H. Dry soil weight (G-E): _____ g
I. Weight of rocks: _____ g
J. Volume of water without rocks: _____ mL
K. Volume of water and rocks: _____ mL
L. Volume of rocks (K-J): _____ mL (cm³)
M. Bulk density [(H-I)/(D-L)]: _____ g/cm³

Sample Number 3

- A. Sample Depth: Top _____ cm
B. Sample Depth: Bottom _____ cm
C. Hole diameter: _____ cm
D. Hole volume $\pi \times (C/2)^2 \times (B-A)$: _____ cm³
E. Container weight: _____ g
F. Wet weight of sample: _____ g
G. Dry weight of sample: _____ g
H. Dry soil weight (G-E): _____ g
I. Weight of rocks: _____ g
J. Volume of water without rocks: _____ mL
K. Volume of water and rocks: _____ mL
L. Volume of rocks (K-J): _____ mL (cm³)
M. Bulk density [(H-I)/(D-L)]: _____ g/cm³