

Windolph Knoll
West Pikeland Twp
Soil test pits 6/10/08
Larry Hepner - Consulting Soil Scientist
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Pit 1

Ap 0-8" 10YR 4/4 brown silt loam, granular and subangular blocky structure; friable, abrupt smooth boundary; 3% coarse fragments
Bt 8-25" 7.5YR 5/6 bright brown silt loam; subangular blocky structure; friable; clear smooth boundary; 3% coarse fragments.
C 25-40" variegated 7.5YR 5/8 bright brown and 7.5YR 8/4 light yellow orange silt loam; platy structure; friable; clear smooth boundary; 1% coarse fragments.
R 40+" highly fractured gneiss

Pit 2

Ap 0-9" 10YR 3/3 dark brown silt loam; medium subangular blocky and granular structure; friable.
Bt 9-27" 7.5YR 4/4 brown silt loam; medium subangular blocky structure; friable 1-2% coarse fragments;.
C 27-35" 7.5YR 4/4 brown silt loam; medium subangular blocky structure; friable; 5% coarse fragments.

Pit 3

Ap 0-8" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable.
Bt 8-31" 7.5YR 4/4 brown silt loam; subangular blocky structure; friable.
C1 31-38" 7.5YR 4/4 channery silt loam; subangular blocky structure; friable.
C2 38-54" variegated platy structure; friable.

Pit 4

Ap 0-13" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; abrupt smooth boundary.
Bt 13-40" 10YR 4/4 brown flaggy silt loam; subangular blocky structure; friable.
C 40-57" 10YR 6/6 bright yellowish brown channery silt loam; subangular blocky structure; friable.

Pit 5

Ap 0-10" 10YR 3/3 dark brown silt loam; subangular and granular structure; friable; abrupt smooth boundary; friable.
Bt 10-35" 10YR 4/4 brown silt loam; subangular blocky structure; clear wavy boundary; friable.
C 35-47" 10YR 4/4 brown silt loam; subangular blocky and platy structure; friable.

Pit 6

No limiting zone to 55".

Pit 7

One foot diameter coarse fragments at 12 inches. Pit depth 30 inches.

Pit 8

Ap 0-9" 10YR 3/3 dark brown silt loam; granular and moderate subangular blocky structure; friable; abrupt smooth boundary.

Bt 9-35" 7.5YR 5/6 bright brown silt loam; moderate subangular blocky structure; friable; clear wavy boundary.

C 35-48' 7.5YR 4/6 brown channery silt loam; moderate subangular blocky structure.

Pit 9

Ap 0-9" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable; abrupt smooth boundary.

Bt 9-18" 7.5YR 4/6 brown silt loam; subangular blocky structure; friable.

BC 18-32" 7.5YR 5/8 bright brown and 7.5YR 6/4 dull orange silt loam; subangular blocky structure; friable.

C1 32-44" 7.5YR 5/8 bright brown and 7.5YR 6/4 dull orange channery loam; subangular blocky structure; friable.

C2 44-54" variegated loam; subangular blocky and platy structure; friable.

Pit 10

Ap 0-9" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable.

Bt 9-27" 7.5YR 4/6 brown silt loam; subangular blocky structure; friable.

C 27-47" variegated channery silt loam; subangular blocky structure; friable.

Pit 11

Ap 0-10" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable; 2-3% coarse fragments.

Bt 10-24" 7.5YR 5/6 bright brown silt loam; subangular blocky structure; friable; 2-3% coarse fragments.

C 24-51" variegated loam; weak platy structure; friable; 2-3% coarse fragments.

Pit 12

Ap 0-9" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable.

Bt 9-16" 7.5YR 5/6 bright brown silt loam; subangular blocky structure; friable.

C 16-45" variegated sandy loam; subangular blocky and platy structure; friable.

Windolph Knoll Test Pits
Pits described on November 17, 2008
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Test pit 3893

- Ap 0-9" 10YR 4/ 4 brown silt loam; moderate subangular blocky structure; friable; abrupt smooth boundary.
- Bt1 9-13" 10YR 5/6 yellowish brown silt loam; moderate subangular blocky structure; friable; clear smooth boundary
- Bt2 13-17" 10YR 5/6 yellowish brown silt loam; moderate subangular blocky structure; friable; clear smooth boundary.
- C1 17-36" 2.5Y 6/6 bright yellowish brown loamy sand; moderate platy structure; very friable; clear smooth boundary.
- C2 36-65"+ 2.5Y 6/4 dull yellow loamy sand; moderate platy structure; very friable.

Test pit 3894

- Ap 0-8" 7.5YR 3/3 dark brown loam; granular structure; friable; abrupt smooth boundary.
- Bt1 8-19" 10YR 5/6 yellowish brown sandy loam; weak subangular blocky structure; friable; clear smooth boundary.
- Bt2 19-43" variegated loamy sand; weak subangular blocky structure; friable; clear wavy boundary.
- C 43 - 61" variegated loamy sand; weak subangular blocky structure; friable; clear wavy boundary.

Test pit 3895

- Ap 0-16" 10YR 3/3 dark brown silt loam; weak granular and subangular blocky structure; friable; clear wavy boundary.
- Bt 16-30" 10YR 4/4 brown loam; weak subangular blocky structure; friable; clear wavy boundary.
- C 30-43" 10YR 5/6 yellowish brown sandy loam; weak platy and subangular blocky structure; friable.
- R 43"

Test pit 3896

- Ap 0-10" 10YR 3/4 dark brown silt loam; moderate granular and subangular blocky structure; friable; clear smooth boundary.
- B 10-30" 7.5YR 4/6 brown loam; moderate subangular blocky; friable; clear wavy boundary.
- C 30-68" variegated silt loam to loam; weak subangular blocky structure; friable.

Test pit 3897

Rock at 30"

Test pit 3898

- Ap 0-10" 10YR 4/3 dull yellowish brown silt loam; granular and subangular blocky structure; friable; abrupt smooth boundary.
- Bt1 10-24" 7.5YR 4/4 brown silt loam; subangular blocky structure; friable; clear wavy boundary.
- BC 24-42" 7.5YR 4/6 brown silt loam to loam; weak platy structure; friable; clear wavy boundary.
- C 42-68" 5YR 5/8 bright reddish brown silt loam; weak platy structure; friable.

Test pit 3899

- Ap 0-10" 10YR 3/3 dark brown silt loam; granular and subangular blocky structure; friable; abrupt smooth boundary.
- B 10-33" 7.5YR 5/6 bright brown heavy silt loam; subangular blocky structure; friable; abrupt smooth boundary.
- C 33-64" 7.5YR 5/6 bright brown and 7.5YR 7/4 dull orange silt loam to loam; platy structure; friable.