

U of MN Onsite Sewage Treatment Program Soil Boring Log

Client/ Address:	Legal Description/GPS:	Date:
Soil Parent Material(s): Till Outwash Lacustrine Alluvium Loess Organic Matter Bedrock (circle all that apply)		
Landscape Position: Summit Shoulder Back/Side Slope Foot Slope Toe Slope (circle one)		
Vegetation:		Soil Survey Map Unit(s):
Weather conditions/Time of Day:		Slope (%):
		Slope Shape:

Depth (in)	Texture	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Saturated Soil Indicator(s) (see back)	I----- Structure-----I		
						Shape	Grade	Consistence
				Concentrations Depletions Gleyed		Granular Platy Blocky Prismatic Single Grain Massive	Weak Moderate Strong Loose	Loose Friable Firm Extremely Firm Rigid
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Comments:

Textures:

c-clay
sic-silty clay
sc-sandy clay
cl-clay loam
sicl-silty clay loam
scl-sandy clay loam
si-silt
sil-silt loam
l-loam
sl-sandy loam*
ls-loamy sand*
s-sand*

* Sand Modifiers
co-coarse
m-medium
f-fine
vf-very fine

Soil Structure

Grade:

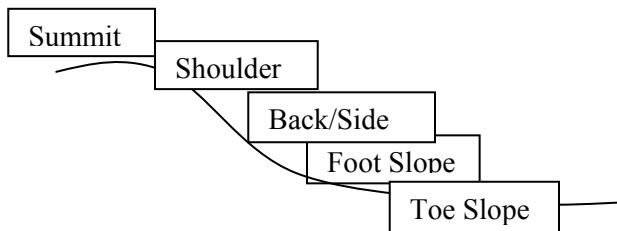
Weak-poorly formed, indistinct peds, barely observable in place

Moderate-Well formed, distinct peds, moderately durable and evident, but not distinct in undisturbed soil

Strong-durable peds that are quite evident in undisturbed soil, adhere weakly to one another, withstand displacement, and become separated when soil is disturbed

Loose-no peds, sandy soil

Landscape Position:



Soil Structure

Shape:

Granular-the peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots when soil is turned over.

Platy-the peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas just below the leaf litter or shallow topsoil.

Blocky-the peds are block-like or polyhedral, and are bounded by flat or slightly rounded surface that are casting of the faces of surrounding peds. Blocky structure is commonly found in the lower topsoil and subsoil.

Prismatic- flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of adjoining peds. Prismatic structure is commonly found in the lower subsoil.

Single Grain-the structure found in a sandy soil. The individual particles are not held together.

Massive-no observable aggregates, or no orderly arrangement of natural lines of weakness

Consistence:

Loose-intact specimen not available

Friable-slight force between fingers

Firm-moderate force between fingers

Extremely firm-moderate force between hands or slight foot pressure

Rigid-foot pressure

Subsoil Indicator(s) of Saturation:

- S1. Depleted matrix (value ≥ 4 and chroma ≤ 2)
- S2. Distinct gray or red redox features
- S3. 5Y chroma ≤ 3
- S4. 7.5 YR or redder faint redox concentrations or redox depletions

If yes to one of the above indicators then:

Topsoil Indicator(s) of Saturation:

- T1. Wetland vegetation
- T2. Depressional landscape
- T3. Organic texture or organic modifiers
- T4. N 2.5/ 0 color
- T5. Redox features in topsoil
- T6. Hydric soil

Slope Shape - Slope shape is described in two directions: up-and-down slope (perpendicular to the contour), and across slope (along the horizontal contour); e.g., Linear, Convex or LV.

