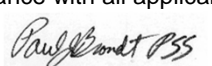




Soil Observation Log

Project ID:

v 04.17.2018

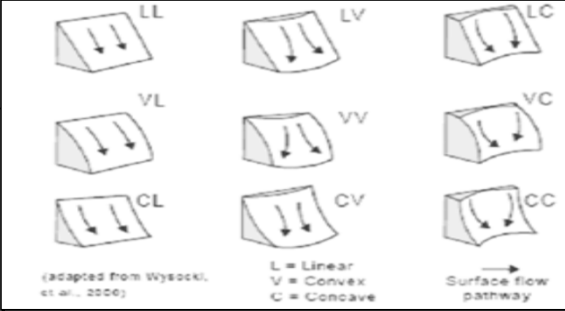
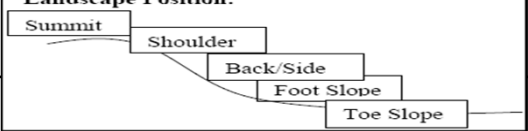
Client:		Pat Casagrande/Greg Dueberry			Location / Address:		10600 Kelvin Ave. N Stillwater MN			
Soil parent material(s): (Check all that apply) <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Loess <input checked="" type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter										
Landscape Position: (check one) <input type="checkbox"/> Summit <input checked="" type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope Slope shape							Convex, Linear			
Vegetation:		Grass		Soil survey map units:		Slope %:		5.0		
Elevation:		980								
Weather Conditions/Time of Day:			65 deg, mostly Sunny				Date		05/08/18	
Observation #/Location:		Soil Boring 1				Observation Type:		Auger		
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	----- Structure -----			
							Shape	Grade	Consistence	
0 to 9	Fine Sandy Loam	<35%	7.5YR 3/3				Blocky	Moderate	Friable	
9 to 30	Fine Sandy Loam	<35%	7.5YR 4/4				Blocky	Moderate	Friable	
30 to 44	Loam	<35%	7.5YR 2.5/3				Blocky	Moderate	Friable	
44 to 50	Loam	<35%	7.5YR 5/4	5YR 4/6	Concentrations	S1	Blocky	Moderate	Friable	
				5YR 4/1	Depletions	S1				
Comments										
I hereby certify that I have completed this work in accordance with all applicable ordinances, rules and laws.										
Paul Brandt						5182		5/8/2018		
(Designer/Inspector)		(Signature)				(License #)		(Date)		

Additional Soil Observation Logs

Project ID:



Client		Pat Casagrande/Greg Dueberry			Location / Address:		10600 Kelvin Ave. N Stillwater MN			
Soil parent material(s): (Check all that apply) <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input checked="" type="checkbox"/> Loess <input type="checkbox"/> Till <input type="checkbox"/> Alluvium <input type="checkbox"/> Bedrock <input type="checkbox"/> Organic Matter										
Landscape Position: (check one) <input type="checkbox"/> Summit <input checked="" type="checkbox"/> Shoulder <input type="checkbox"/> Back/Side Slope <input type="checkbox"/> Foot Slope <input type="checkbox"/> Toe Slope Slope shape							Convex, Linear			
Vegetation:		Grass		Soil survey map units:		Slope %:		5.0		
Elevation:		979								
Weather Conditions/Time of Day:			65 Mostly Sunny				Date:		05/08/18	
Observation #/Location:		Soil Boring 2				Observation Type:		Auger		
Depth (in)	Texture	Rock Frag. %	Matrix Color(s)	Mottle Color(s)	Redox Kind(s)	Indicator(s)	----- Structure-----			
							Shape	Grade	Consistence	
0 to 7	Fine Sandy Loam	<35%	7.5YR 3/3				Blocky	Moderate	Friable	
7 24	Fine Sandy Loam	<35%	7.5YR 4/4				Blocky	Moderate	Friable	
24 to 28	Loam	<35%	7.5YR 2.5/3				Blocky	Moderate	Friable	
28 to 31	Loam	<35%	<u>7.5YR 5/4</u>				Blocky	Moderate	Friable	
31 to 44	Loam	<35%	7.5YR 2.5/3				Blocky	Moderate	Friable	
Comments										

<p>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*</p>	<p>Subsoil Indicator(s) of Saturation: S1. Distinct gray or red redox features S2. Depleted matrix (value ≥ 4 and chroma ≤ 2) S3. 5Y chroma ≤ 3 S4. 7.5 YR or redder faint redox concentrations or redox depletion</p> <p>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. Hydraulic indicators</p> <p>*Sand Modifiers co-coarse m-medium f-fine vf-very fine</p>	<p>Consistence: <u>Loose-</u> Intact specimen not available <u>Friable-</u> Slight force between fingers <u>Firm-</u> Moderate force between fingers <u>Extremely firm-</u> Moderate force between hands or slight foot pressure <u>Rigid-</u> Foot pressure</p> <p>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.</p>  <p>(adapted from Wysocki, et al., 2006)</p>
<p>Soil Structure Grade: <u>Massive-</u> No observable aggregates, or no orderly arrangement of natural lines of weakness <u>Weak-</u> Poorly formed, indistinct peds, barely observable in place <u>Moderate-</u> Well formed, distinct peds, moderately durable and evident, but not distinct in undisturbed <u>Strong-</u> Durable peds that are quite evident in un-displaced soil, adhere weakly to one another, withstand displacement, and become separated when soil is disturbed <u>Loose-</u> No peds, sandy soil</p>		<p>Landscape Position:</p> 
<p>Soil Structure Shape: <u>Granular-</u> The peds are approximately spherical or polyhedral and are commonly found in topsoil. These are the small, rounded peds that hang onto roots <u>Platy-</u> The peds are flat and plate like. They are oriented horizontally and are usually overlapping. Platy structure is commonly found in forested areas <u>Blocky-</u> 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. <u>Prismatic-</u> Flat or slightly rounded vertical faces bound the individual peds. Peds are distinctly longer vertically, and faces are typically cast or molds of <u>Single Grain-</u> The structure found in a sandy soil. The individual particles are not held together.</p>		