LIMITING SOIL CHARACTERISTICS LEGEND

Map Symbol	Soil Name	Cutbanks Cave	Corrosive to Concrete/ Steel	Droughty	Easily Erodible	Flooding	Depth to Saturated Zone/ Seasonal High Water Table	Hydric / Hydric Inclusions	Low Strength / Landslide Prone	Slow Percolation	Piping	Poor Source of Topsoil	Frost Action	Shrink - Swell	Potential Sinkhole	Ponding	Wetness	Min. Depth to Bedrock	pH
AaB2	Albrights channery loam, 3 to 8 percent slopes moderately eroded	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AbA	Albrights silt loam, 0 to 3 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AbB2	Albrights silt loam 3 to 8 percent slopes moderately eroded	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AcB	Albrights very stony loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AdB2	Allenwood gravelly loam and silt loam, 3 to 8 percent slopes, moderately eroded	X	C/S					X	X	X	X	X	X					X	X
AfB	Allenwood silt loam, 3 to 8 percent slopes	X	C/S					X	X	X	X	X	X						X
Ag	Alluvial land	X	C/S			X	X		X	X	X	X	X		X		X	X	
AiB	Alton gravelly loam, 3 to 8 percent slopes	X	C	X						X	X	X	X					X	X
AmC3	Allenwood gravelly silty clay loam, 8 to 15 percent slopes, severely eroded	X	C/S					X	X	X	X	X	X					X	X
AnA	Andover-Buchanan gravelly loams, 0 to 3 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AnB	Ahira gravelly silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
AoB	Andover-Buchanan gravelly loams, 0 to 8 percent slopes, extremely stony	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
ArB	Amot-Rock outcrop complex, 0 to 8 percent slopes	X	C	X	X			X	X			X	X					X	X
ArD	Amot-Rock outcrop complex, 8 to 25 percent slopes	X	C	X	X			X	X			X	X					X	X
AsA	Ahira and Shelmadine silt loams, 0 to 3 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
ASF	Amot-Rock outcrop complex, steep	X	C	X	X				X		X		X					X	X
At	Atherton silt loam, gray subsoil variant	X	S				X	X	X		X		X				X	X	
AtB	Ahira and Shelmadine very stony silt loams, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
BfB	Bedington-Berks complex, 3 to 8 percent slopes	X	C	X	X				X	X		X	X					X	X
BhD	Buchanan very stony loam, 8 to 25 percent slopes	X	C/S	X			X	X	X	X	X	X	X				X	X	X
BkA	Berks-Weikert complex, 0 to 3 percent slopes	X	C	X	X			X		X	X	X						X	
BkB	Berks-Weikert complex, 3 to 8 percent slopes	X	C	X	X			X		X	X	X	X					X	X
BkC	Berks-Weikert complex, 8 to 15 percent slopes	X	C	X	X			X		X	X	X	X					X	X
BkD	Berks-Weikert complex, 15 to 25 percent slopes	X	C	X	X			X		X	X	X	X					X	X
BkF	Berks-Weikert complex, 25 to 60 percent slopes	X	C	X	X			X		X	X	X	X					X	X
BrB	Braceville gravelly loam, 3 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
BrC	Braceville gravelly loam, 8 to 15 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
BtA	Brinkerton-Comly silt loams, 0 to 3 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X	X			X	X	
BtB	Brinkerton-Comly silt loams, 3 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X	X			X	X	
BuB	Buchanan gravelly loam, 3 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
BvB	Buchanan gravelly loam, 0 to 8 percent slopes, extremely stony	X	C/S	X	X		X	X	X	X	X	X	X				X	X	X
CaB	Califon loam, 3 to 8 percent slopes	X	C/S				X		X	X			X				X	X	
CbB	Califon loam, 0 to 8 percent slopes, extremely stony	X	C/S						X	X			X					X	
CF	Cut and fill land	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
ChB	Chenango gravelly loam, 3 to 8 percent slopes	X	C	X		X	X	X		X	X	X	X					X	X
ChC	Chenango gravelly loam, 8 to 15 percent slopes	X	C	X		X	X	X		X	X	X	X					X	X
ClA	Chippewa silt loam, 0 to 3 percent slopes	X	C/S	X	X		X	X	X	X	X	X		X		X		X	
ClB	Clarksburg silt loam, 3 to 8 percent slopes	X	C/S		X		X	X	X	X	X	X	X	X	X		X	X	
ClmB	Clarksburg silt loam, 3 to 8 percent slopes	X	C/S		X		X	X	X	X	X	X	X	X	X		X		
ClmB2	Comly silt loam, 3 to 8 percent slopes, moderately eroded	X	C/S	X	X		X	X		X	X	X	X					X	X
CnB	Chippewa very stony silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X	X	X	X			X	X	
CoB	Cokesbury-Califon channery silt loams, 0 to 8 percent slopes, very stony	X					X			X			X					X	X
CpA	Comly silt loam, 0 to 3 percent slopes	X	C/S	X	X		X	X			X	X	X					X	
CpB	Comly silt loam, 3 to 8 percent slopes	X	C/S	X	X		X	X			X	X	X					X	
CrB	Comly silt loam, 0 to 8 percent slopes, extremely stony	X	C/S	X	X		X	X			X	X	X					X	X
CtA	Conotton gravelly loam, 0 to 3 percent slopes	X	C/S	X	X		X	X	X		X	X	X					X	
DaA	Delaware fine sandy loam, 0 to 3 percent slopes	X	C			X		X		X									
DaB	Delaware fine sandy loam, 3 to 8 percent slopes	X	C			X		X		X			X						
DdB	Dekalb extremely stony sandy loam, 0 to 8 percent slopes	X	C	X					X	X	X	X	X					X	X
DdD	Dekalb extremely stony sandy loam, 8 to 25 percent slopes	X	C	X					X	X	X	X	X					X	X
DeD	Dekalb very stony loam, 8 to 25 percent slopes	X	C	X					X	X	X	X	X					X	X
DEF	Dekalb extremely stony sandy loam, steep	X	C	X					X	X	X	X	X					X	X
DeF	Dekalb very stony loam, 25 to 100 percent slopes	X	C	X					X	X	X	X	X					X	X
DgC	Duffield-Ryder silt loams, 8 to 15 percent slopes	X	C/S		X				X	X		X	X	X	X		X	X	
DtA	Drifton loam, 0 to 3 percent slopes	X	C/S		X		X	X	X	X		X	X					X	X
DtB2	Drifton loam, 3 to 8 percent slopes, moderately eroded	X	C/S		X		X	X	X	X		X	X					X	X
DtB	Drifton very stony loam, 0 to 8 percent slopes	X	C/S		X		X	X	X	X		X	X					X	X
DuA	Duffield silt loam, 0 to 3 percent slopes	X	C/S					X	X	X	X	X		X	X		X		
DuB	Duffield silt loam, 3 to 8 percent slopes	X	C/S		X			X	X	X	X	X		X	X		X		
DxB	Dekalb extremely stony loam, 0 to 8 percent slopes	X	C	X					X	X	X	X	X					X	X
DxE	Dekalb extremely stony loam, 25 to 60 percent slopes	X	C	X					X	X	X	X	X					X	X
FI	Fluvaquents	X	C/S	X	X	X	X	X	X		X		X						
FkC2	Fleetwood sandy loam, 8 to 15 percent slopes, moderately eroded	X	C	X					X			X					X	X	X
FvD	Fleetwood very stony loam, shallow, 8 to 25 percent slopes	X	C	X					X			X					X	X	X
FvF	Fleetwood very stony loam, shallow, 25 to 100 percent slopes	X	C	X					X			X					X	X	X
FwB	Fleetwood very stony sandy loam, 0 to 8 percent slopes	X	C	X					X			X					X	X	X
FwD	Fleetwood very stony sandy loam, 8 to 25 percent slopes	X	C	X					X			X					X	X	X
Gb	Gibraltar silt loam	X	C/S		X	X	X	X	X	X	X		X					X	
GbB	Gladstone gravelly loam, 3 to 8 percent slopes	X	C		X				X	X	X		X	X				X	
GbC	Gladstone gravelly loam, 8 to 15 percent slopes	X	C		X				X	X	X		X	X				X	
GmD	Gladstone gravelly loam, 8 to 25 percent slopes, very bouldery	X	C		X				X	X			X	X				X	X
GmF	Gladstone gravelly loam, 25 to 55 percent slopes, very bouldery	X	C		X				X	X			X	X				X	X
GnD	Gladstone-Parker gravelly loams, 15 to 25 percent slopes	X	C		X				X	X	X		X	X				X	
GP	Gravel pits	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
GrB	Glenville silt loam, 3 to 8 percent slopes	X	C/S				X	X	X	X	X	X	X				X	X	X
HaA	Hartleton channery silt loam, 0 to 3 percent slopes	X	C	X					X	X	X	X	X					X	X
HaB2	Hartleton channery silt loam, 3 to 8 percent slopes, moderately eroded	X	C	X					X	X	X	X	X					X	X
HaC2	Hartleton channery silt loam, 8 to 15 percent slopes, moderately eroded	X	C	X					X	X	X	X	X					X	X
HaC3	Hartleton channery silt loam, 8 to 15 percent slopes, severely eroded	X	C	X					X	X	X	X	X					X	X
HeB	Hazleton very channery loam, 0 to 8 percent slopes, extremely stony	X	C	X	X			X	X	X	X	X	X					X	X
HeD	Hazleton very channery loam, 8 to 25 percent slopes, extremely stony	X	C	X	X			X	X	X	X	X	X					X	X
HgF	Hazleton-Rubble land complex, 25 to 60 percent slopes	X	C	X	X			X	X	X	X	X	X					X	X
Ho	Holly silt loam	X	C/S			X	X		X	X	X	X	X				X	X	
HrA	Hazleton loam, 0 to 3 percent slopes	X	C	X	X			X	X	X	X	X	X					X	X
HrB	Hazleton loam, 3 to 8 percent slopes	X	C	X	X			X	X	X	X	X	X					X	X
HrB2	Hazleton loam, 3 to 8 percent slopes, moderately eroded	X	C	X	X			X	X	X	X	X	X					X	X
HvE	Hazleton very stony loam, 0 to 8 percent slopes	X	C	X	X			X	X	X	X	X	X					X	X
HvD	Hazleton very stony loam, 8 to 25 percent slopes	X	C	X	X			X	X	X	X	X	X					X	X
Hy	Holly silt loam	X	C/S			X	X		X	X	X	X	X				X	X	
KcB2	Klinesville channery silt loam, 3 to 8 percent slopes, moderately eroded	X	C/S	X	X			X		X		X	X					X	X
KcC2	Klinesville channery silt loam, 8 to 15 percent slopes, moderately eroded	X	C/S	X	X			X		X		X	X					X	X
KcC3	Klinesville channery silt loam, 8 to 15 percent slopes, severly eroded	X	C/S	X	X			X		X		X	X					X	X
KcD2	Klinesville channery silt loam, 15 to 25 percent slopes, moderately eroded	X	C/S	X	X			X		X		X	X					X	X
KcD3	Klinesville channery silt loam, 15 to 25 percent slopes, severly eroded	X	C/S	X	X			X		X		X	X					X	X
KcE2	Klinesville channery silt loam, 25 to 35 percent slopes, moderately eroded	X	C/S	X	X			X		X		X	X					X	X
KcE3	Klinesville channery silt loam, 25 to 35 percent slopes, severly eroded	X	C/S	X	X			X		X		X	X					X	X
KcF	Klinesville channery silt loam, 35 to 80 percent slopes	X	C/S	X	X			X		X		X	X					X	X
KoF	Klinesville very stony silt loam, 25 to 80 percent slopes	X	C/S	X	X			X		X		C/S	X					X	X
LaB	Lackawanna channery silt loam, 3 to 8 percent slopes	X	C	X				X	X				X	X			X	X	X
LaC	Lackawanna channery silt loam, 8 to 15 percent slopes	X	C	X				X	X				X	X			X	X	X
LaD	Lackawanna channery silt loam, 15 to 25 percent slopes	X	C	X				X	X				X	X			X	X	X
LbB	Ladig very gravelly loam, 0 to 8 percent slopes, extremely stony	X	C/S	X	X			X	X	X	X		X	X				X	X
LbD	Ladig very gravelly loam, 8 to 25 percent slopes, extremely stony	X	C/S	X	X			X	X	X	X	X	X	X				X	X
LbF	Ladig very gravelly loam, 25 to 65 percent slopes, extremely stony	X	C/S	X	X			X	X	X	X	X	X	X				X	X
LcB	Lackawanna very stony silt loam, 3 to 8 percent slopes	X	C	X				X		X		X	X	X			X	X	X
LcD	Lackawanna very stony silt loam, 8 to 25 percent slopes	X	C	X				X		X		X	X	X			X	X	X
LdB	Ladig very stony loam, 3 to 8 percent slopes	X	C/S	X	X			X	X	X	X	X	X	X				X	X
LdD	Ladig very stony loam, 8 to 25 percent slopes	X	C/S	X	X			X	X	X	X	X	X	X				X	X
LeA	Leck kill channery silt loam, 0 to 3 percent slopes	X	C						X	X	X	X	X				X	X	X
LeB2	Leck kill channery silt loam, 3 to 8 percent slopes, moderately eroded	X	C						X	X	X	X	X				X	X	X
LeC2	Leck kill channery silt loam, 8 to 15 percent slopes, moderately eroded	X	C						X	X	X	X	X				X	X	X
LeC3	Leck kill channery silt loam, 8 to 15 percent slopes, severely eroded	X	C						X	X	X	X	X				X	X	X
LeD3	Leck kill channery silt loam, 15 to 25 percent slopes, severely eroded	X	C						X	X	X	X	X				X	X	X
LEF	Lackawanna and Bath very stony silt loams, steep	X	C	X			X	X	X			X	X				X	X	X
LkB	Leck kill very stony loam, 0 to 8 percent slopes	X	C						X	X	X	X	X				X	X	X
LkD	Leck kill very stony loam, 8 to 25 percent slopes	X	C						X	X	X	X	X				X	X	X
LkF	Leck kill very stony loam, 25 to 100 percent slopes	X	C						X	X	X	X	X				X	X	X
Ln	Linden soils	X	C			X	X	X	X	X	X		X					X	
LtA	Lickdale and Tughill very stony loams, 0 to 8 percent slopes	X	C/S		X		X	X	X	X		X	X	X				X	X
LuD	Lordstown very stony silt loam, 8 to 25 percent slopes	X	C	X	X				X	X	X		X					X	X
LuF	Lordstown very stony silt loam, 25 to 80 percent slopes	X	C	X	X				X	X	X		X					X	
MaB	Mardin channery silt loam, 3 to 8 percent slopes	X	S	X	X		X	X	X	X	X		X				X	X	
Mb	Middlebury silt loam	X	S			X	X	X		X	X		X	X					
MbA	Mackesville channery loam, 0 to 3 percent slopes	X	C/S				X		X	X	X	X	X				X	X	X
MbB2	Mackesville channery loam, 3 to 8 percent slopes, moderately eroded	X	C/S				X		X	X	X	X	X				X	X	X
MbC2	Mackesville channery loam, 8 to 15 percent slopes, moderately eroded	X	C/S				X		X	X	X	X	X				X	X	X
McB	Mardin very stony silt loam, 3 to 8 percent slopes	X	S	X	X		X	X	X	X	X		X				X	X	X
McD	Mardin very stony silt loam, 8 to 25 percent slopes	X	S	X	X		X	X	X	X	X		X				X	X	
MdB	Middlebury silt loam, 3 to 8 percent slopes	X	S			X	X			X	X		X	X					
MeC	Mackesville gravelly loam, 8 to 15 percent slopes	X	C/S				X		X	X	X	X	X				X	X	X
MfC	Mackesville very stony loam, 8 to 25 percent slopes	X	C/S				X		X	X	X	X	X				X	X	X
Mg	Mine dump	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	
Mh	Mine dump, burned	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	
Mm	Mine wash	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X
MoB	Morris channery silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X	X	X			X	X	
ModB2	Montevallo channery silt loam, 3 to 8 percent slopes, moderately eroded		C/S	X				X	X			X	X					X	X
MocC2	Montevallo channery silt loam, 8 to 15 percent slopes, moderately eroded		C/S	X				X	X			X	X					X	X
MoD2	Montevallo channery silt loam, 15 to 25 percent slopes, moderately eroded		C/S	X				X	X			X	X					X	X
MoD3	Montevallo channery silt loam, 15 to 25 percent slopes, severely eroded		C/S	X				X	X			X	X					X	X
MoE2	Montevallo channery silt loam, 25 to 35 percent slopes, moderately eroded		C/S	X				X	X			X	X					X	X
MoF2	Montevallo channery silt loam, 35 to 100 percent slopes, eroded		C/S	X				X	X			X	X					X	X
MrB	Morris very stony silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X	X				X	X	
MsB	Morris very stony silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X	X				X	X	
MsC	Morris very stony silt loam, 8 to 15 percent slopes	X	C/S	X	X		X	X	X	X		X	X				X	X	
Mu	Muck		S			X	X	X		X						X	X	X	
NaB	Norwich very stony loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X	X			X	X	X	X
OlB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	X	C	X	X			X		X			X					X	X
OlC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	X	C	X	X			X		X			X					X	X
OlD	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	X	C	X	X			X		X			X					X	X
OpB	Oquaga and Lordstown extremely stony silt loams, 3 to 8 percent slopes	X	C	X	X			X		X			X					X	X
OpD	Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes	X	C	X	X			X		X			X					X	X
OXF	Oquaga and Lordstown extremely stony silt loams steep	X	C	X	X			X		X			X					X	X
Pa	Papakating silty clay loam	X	C/S			X	X		X	X	X	X	X				X	X	
Pr	Pits, quarry	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
Ps	Pope soils	X	C/S		X	X		X	X	X	X	X	X	X				X	X
RdB	Rexford loam, 3 to 8 percent slopes	X	C/S	X		X	X	X	X	X	X	X	X	X			X	X	X
RyB	Ryder-Duffield silt loams, 3 to 8 percent slopes	X	C/S					X	X	X			X		X			X	
RzF	Ryder-Rock outcrop complex, 25 to 75 percent slopes	X	C/S					X	X	X			X		X			X	
ShA	Shelmadine silt loam, 0 to 3 percent slopes	X	C/S	X			X	X	X	X	X	X	X					X	X
Sm	Strip mine	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
SmB	Shelmadine very stony silt loam, 0 to 8 percent slopes	X	C/S	X			X	X	X	X	X	X	X					X	X
SwB	Swartswood very stony loam, 0 to 8 percent slopes	X	C	X	X		X		X	X	X	X	X					X	X
SwD	Swartswood very stony loam, 8 to 25 percent slopes	X	C	X	X		X		X	X	X	X	X					X	X
Tg	Tioga silt loam	X	C		X	X	X	X		X								X	
TmB	Tioga and Middlebury very stony loams, 0 to 8 percent slopes	X	C		X	X	X	X		X								X	
TuB	Tunkhannock gravelly loam, 3 to 8 percent slopes	X	C	X				X		X		X						X	X
TuC	Tunkhannock gravelly loam, 8 to 15 percent slopes	X	C	X				X		X		X						X	X
UbB	Udorthents, limestone, 0 to 8 percent slopes	X	C/S	X	X				X	X		X	X					X	
UgD	Udorthents, schist and gneiss, 8 to 25 percent slopes	X	C/S	X	X				X	X		X	X					X	
UhD	Udorthents, shale and sandstone, 8 to 25 percent slopes	X	C/S	X	X				X	X		X	X					X	
UlD	Urban land-Berks complex, 8 to 25 percent slopes	X	C	X	X			X		X	X	X	X					X	X
UkaB	Urban land, 0 to 8 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	X
UoB	Urban land-Duffield complex, 0 to 8 percent slopes	X	C/S		X			X	X	X	X	X	X		X	X	X	X	
UpB	Urban land-Gladstone complex, 0 to 8 percent slopes	X	C		X			X		X			X	X	X			X	

LIMITING SOIL CHARACTERISTICS LEGEND

Map Symbol	Soil Name	Cutbanks Cave	Corrosive to Concrete/ Steel	Droughty	Easily Erodible	Flooding	Depth to Saturated Zone/ Seasonal High Water Table	Hydric / Hydric Inclusions	Low Strength / Landslide Prone	Slow Percolation	Piping	Poor Source of Topsoil	Frost Action	Shrink - Swell	Potential Sinkhole	Ponding	Wetness	Min. Depth to Bedrock	pH
UudB	Urban land-Udorthents, limestone complex, 0 to 8 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	
UudD	Urban land-Udorthents, limestone complex, 8 to 25 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	
UugB	Urban land-Udorthents, schist and gneiss complex, 0 to 8 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	X
UugD	Urban land-Udorthents, schist and gneiss complex, 8 to 25 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	X
UusB	Urban land-Udorthents, shale and sandstone complex, 0 to 8 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	
VaF	Very stony land, 25 to 120 percent slopes	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	X	X
VraB	Volusia channery silt loam, 0 to 8 percent slopes	X	C/S	X	X	X	X	X	X	X	X		X					X	
VsB	Volusia very stony loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X		X					X	X
VtB	Volusia very stony silt loam, 0 to 8 percent slopes	X	C/S	X	X		X	X	X	X	X		X					X	X
VvC	Volusia very stony silt loam, 8 to 15 percent slopes	X	C/S	X	X		X	X	X	X	X		X					X	X
WaA	Washington silt loam, 0 to 3 percent slopes	X	S				X	X	X	X	X	X	X	X				X	
WaD	Washington silt loam, 15 to 25 percent slopes	X	S				X	X	X	X	X	X	X	X				X	
WaB	Washington silt loam, 3 to 8 percent slopes	X	S				X	X	X	X	X	X	X	X				X	
WaC	Washington silt loam, 8 to 15 percent slopes	X	S				X	X	X	X	X	X	X	X				X	
WaB2	Watson silt loam, 3 to 8 percent slopes, moderately eroded	X	C/S	X			X	X	X	X	X	X	X	X				X	X
W	Water	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA
Wa	Wayland silt loam	X	S		X	X	X	X	X	X	X	X	X	X				X	
WbB	Weikert and Klinesville channery silt loams, 3 to 8 percent slopes	X	C/S	X			X	X	X	X	X		X					X	X
WkD	Weikert-Berks complex, 15 to 25 percent slopes	X	C/S	X			X	X	X	X	X		X					X	X
WkB	Weikert-Berks complex, 3 to 8 percent slopes	X	C/S	X			X	X	X	X	X		X					X	X
WkC	Weikert-Berks complex, 8 to 15 percent slopes	X	C/S	X			X	X	X	X	X		X					X	X
WkE	Weikert and Klinesville soils, steep	X	C/S	X			X	X	X	X	X		X					X	X
WlD	Wellsboro channery silt loam, 15 to 25 percent slopes	X	C/S	X	X		X	X	X	X		X					X	X	X
WlB	Wellsboro channery silt loam, 3 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X				X	X	X	X
WlC	Wellsboro channery silt loam, 8 to 15 percent slopes	X	C/S	X	X		X	X	X	X		X				X	X	X	X
WmB	Wellsboro very stony silt loam, 3 to 8 percent slopes	X	C/S	X	X		X	X	X	X		X				X	X	X	X
WmD	Wellsboro very stony silt loam, 8 to 25 percent slopes	X	C/S	X	X		X	X	X	X		X					X	X	X
WrD	Wurtsboro channery loam, 15 to 25 percent slopes	X	C/S				X	X		X	X	X					X	X	
WtB	Wurtsboro channery loam, 3 to 8 percent slopes	X	C/S				X	X		X	X	X					X	X	
WtC	Wurtsboro channery loam, 8 to 15 percent slopes	X	C/S				X	X		X	X	X					X	X	
WtB	Wurtsboro extremely stony loam, 3 to 8 percent slopes	X	C/S				X	X		X	X	X					X	X	
WtD	Wurtsboro extremely stony loam, 8 to 25 percent slopes	X	C/S				X	X		X	X	X					X	X	
WxB	Wurtsboro very stony loam, 0 to 8 percent slopes	X	C/S				X	X		X	X	X					X	X	
WyD	Wyoming gravelly loam, 15 to 25 percent slopes	X	C	X				X		X		X					X	X	
WyF	Wyoming gravelly loam, 25 to 60 percent slopes	X	C	X				X		X		X					X	X	

THE SOIL LIMITATIONS SHALL BE ADDRESSED AS FOLLOWS:

LIMITATIONS AND RESOLUTIONS:

LIMITATION: CUTBANKS CAVE, LOW STRENGTH - CUTBANKS HAVE POTENTIAL TO CAVE AND MANY SOILS ARE LOW STRENGTH.
RESOLUTION: CONTRACTOR SHALL BE AWARE OF POTENTIAL ISSUES AND FOLLOW OSHA GUIDELINES FOR OPEN TRENCHING. LOW SOIL STRENGTH IS NOT A CONCERN DUE TO THE NATURE OF THE PROPOSED PROJECT. UTILITY TRENCHING WILL NOT BE ADVERSELY EFFECTED BY POOR SOIL STRENGTH.

LIMITATION: CORROSIVE TO STEEL - SOILS CORROSIVE TO STEEL.
RESOLUTION: IF STEEL PIPE IS USED RUST PROTECTION BY COATINGS AND/OR USE OF CATHODIC PROTECTION IS RECOMMENDED

LIMITATION: DROUGHTY - SOILS EXHIBITING A POOR MOISTURE-HOLDING CAPACITY, WHICH MAY LIMIT THE VEGETATIVE STABILIZATION ABILITY OF THE SOIL.
RESOLUTION: FOR DROUGHTY SOILS, CONTRACTOR TO REFER TO "TABLE 11-3: PLANT TOLERANCES OF SOIL LIMITATION FACTORS" TO SELECT APPROPRIATE VEGETATION. EROSION CONTROL BLANKETS SHOULD ALSO BE CONSIDERED IN SOIL CONDITIONS THAT MAKE REVEGETATION DIFFICULT (E.G. DROUGHTY). WHEN INSTALLED PROPERLY, EROSION CONTROL BLANKETS CAN HELP HOLD SOIL PARTICLES IN PLACE AND RETAIN SOIL MOISTURE, PROMOTING SEED GERMINATION.

LIMITATION: EASILY ERODIBLE -
RESOLUTION: SPECIAL ATTENTION SHALL BE GIVEN TO MAINTAINING EXISTING VEGETATION IN EASILY ERODIBLE SOILS, TO THE EXTENT POSSIBLE. EASILY ERODIBLE SOILS WITHIN 50 FEET OF A SURFACE WATER SHOULD BE BLANKETED. WHEREVER ERODIBLE SOILS ARE PRESENT, OR WHERE THERE IS NOT A SUFFICIENT VEGETATIVE FILTER STRIP BETWEEN THE WATERBAR AND A RECEIVING SURFACE WATER, THE WATERBAR SHOULD BE PROVIDED WITH A TEMPORARY PROTECTIVE LINER.

LIMITATION: FLOODING - ANY SOIL SUBJECT TO INUNDATION DURING A 2-YEAR/24HR STORM EVENT.
RESOLUTION: (SEE WET SOILS)

LIMITATION: HIGH WATER TABLE, POTENTIALLY HYDRIC - HIGH WATER TABLE IS TO BE EXPECTED AND MANY OF THE SOILS ARE POTENTIALLY HYDRIC.
RESOLUTION: FOLLOW E&S PLAN WITH REGARD TO PUMPING AND DEWATERING. DISCHARGE OF SEDIMENT LADEN WATER IS PROHIBITED UNLESS WITHOUT FIRST PASSING THRU A "PUMPED WATER FILTER BAG".

LIMITATION: HYDRIC / HYDRIC INCLUSIONS - A SOIL THAT IS SATURATED, FLOODED, OR PONDED LONG ENOUGH DURING THE GROWING SEASON TO DEVELOP ANAEROBIC-CONDITIONS. WHEN SUCH A SOIL IS LOCATED IN AN AREA THAT HAS HYDROPHYTIC VEGETATION AND WETLAND HYDROLOGY, A WETLAND IS PRESENT.
RESOLUTION: HYDRIC SOILS THAT ARE DELINEATED WETLANDS, SHOULD BE AVOIDED TO THE EXTENT POSSIBLE. STAGING AREAS SHOULD BE LOCATED 50 FEET FROM THE EDGE OF WETLAND. MOVEMENT OF VEHICLES ACROSS WETLAND MUST BE MINIMIZED. W