

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. Map units in red represent the soils having the greatest potential for caving when excavated.)

Map symbol and soil name	ENG - Shallow Excavations
AdB2: ALDINO-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone
AdC2: ALDINO-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone 0.633 (0.000-1.000) Slope (No slope limitation to Slope)
AgB2: AURA-----	1.000 Very limited ** 1.000 Cutbanks cave
AgC2: AURA-----	1.000 Very limited ** 1.000 Cutbanks cave
AgE3: AURA-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (0.163-1.000) Slope
Ba: BAILE-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.100 Cutbanks cave
BeA: BELTSVILLE-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone
BeB2: BELTSVILLE-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone
BeC2: BELTSVILLE-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone
BeC3: BELTSVILLE-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone
BeD2: BELTSVILLE-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone 0.837 (0.163-1.000) Slope
BrB2: BRANDYWINE-----	1.000 Very limited ** 1.000 Cutbanks cave
BrC2: BRANDYWINE-----	1.000 Very limited ** 1.000 Cutbanks cave 0.633 (0.000-1.000) Slope (No slope limitation to Slope)

Map symbol and soil name	ENG - Shallow Excavations
<b>BrC3:</b> BRANDYWINE-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.633 (0.000-1.000) Slope (No slope limitation to Slope)
<b>BrD2:</b> BRANDYWINE-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave
<b>BrD3:</b> BRANDYWINE-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave
<b>BrF:</b> BRANDYWINE-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave
<b>BwD:</b> BRANDYWINE-----	0.959 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.959 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
<b>CgB2:</b> CHESTER-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
<b>CgC2:</b> CHESTER-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
<b>ChA:</b> CHESTER-----	1.000 Very limited *+ 1.000 Cutbanks cave
<b>ChB2:</b> CHESTER-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
<b>ChC2:</b> CHESTER-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
<b>ChC3:</b> CHESTER-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
<b>ChD2:</b> CHESTER-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
<b>ClC3:</b> CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave
<b>ClD2:</b> CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.837 (0.163-1.000) Slope
<b>ClE2:</b> CHILLUM-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
CmB2: CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave
CmC2: CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave
CnB2: CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave
FAIRFAX-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.031 (0.000-0.500) Too clayey (Not too clayey to Too clayey)
CnD3: CHILLUM-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.163 (0.000-1.000) Slope (No slope limitation to Slope)
FAIRFAX-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.163 (0.000-1.000) Slope (No slope limitation to Slope) 0.031 (0.000-0.500) Too clayey (Not too clayey to Too clayey)
Co: CODORUS-----	1.000 Very limited *+ 1.000 Depth to saturated zone 1.000 Cutbanks cave 0.600 Flooding
Cs: COMUS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.600 Flooding
CuB: COMUS-----	1.000 Very limited *+ 1.000 Cutbanks cave
DeA: DELANCO-----	1.000 (1.000-1.000) Very limited *+ 1.000 (1.000-1.000) Depth to saturated zone 0.100 Cutbanks cave
DeB2: DELANCO-----	1.000 (1.000-1.000) Very limited *+ 1.000 (1.000-1.000) Depth to saturated zone 0.100 Cutbanks cave
EkA: ELIOAK-----	0.125 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
EkB2: ELIOAK-----	0.125 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
EkC2: ELIOAK-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
EkD2: ELIOAK-----	1.000 Very limited *+ 1.000 Slope 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave

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ElC3:	
ELIOAK-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
ElD3:	
ELIOAK-----	1.000 Very limited ** 1.000 Slope 0.125 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
Em:	
ELKTON-----	1.000 Very limited **
ELKTON-----	1.000 Very limited ** 1.000 Depth to saturated zone 1.000 Depth to saturated zone 0.100 Cutbanks cave 0.100 Cutbanks cave
EnA:	
EL SINBORO-----	0.156 Somewhat limited ** 0.156 Depth to saturated zone 0.100 Cutbanks cave
EnB2:	
EL SINBORO-----	0.156 Somewhat limited ** 0.156 Depth to saturated zone 0.100 Cutbanks cave
EnC2:	
EL SINBORO-----	0.633 (0.156-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.156 Depth to saturated zone 0.100 Cutbanks cave
EvB:	
EVESBORO-----	1.000 Very limited ** 1.000 Cutbanks cave
EvC:	
EVESBORO-----	1.000 Very limited ** 1.000 Cutbanks cave 0.163 (0.000-1.000) Slope (No slope limitation to Slope)
Fa:	
FALLSINGTON-----	1.000 Very limited **
FALLSINGTON-----	1.000 Very limited ** 1.000 Depth to saturated zone 1.000 Depth to saturated zone 1.000 Cutbanks cave 1.000 Cutbanks cave
GlA:	
GLENELG-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
GlB2:	
GLENELG-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
GlC2:	
GLENELG-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
GlC3:	
GLENELG-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
G1D2: GLENELG-----	1.000 Very limited ** 1.000 Slope 0.100 Cutbanks cave
G1D3: GLENELG-----	1.000 Very limited ** 1.000 Slope 0.100 Cutbanks cave
GnA: GLENVILLE-----	1.000 (0.955-1.000) Very limited (Somewhat limited to Very limited) ** 1.000 (0.955-1.000) Depth to saturated zone 0.100 Cutbanks cave
GnB2: GLENVILLE-----	1.000 (0.955-1.000) Very limited (Somewhat limited to Very limited) ** 1.000 (0.955-1.000) Depth to saturated zone 0.100 Cutbanks cave
GnC2: GLENVILLE-----	1.000 (0.955-1.000) Very limited (Somewhat limited to Very limited) ** 1.000 (0.955-1.000) Depth to saturated zone 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
Gp: GRAVEL PITS AND QUAR-----	1.000 Very limited ** 1.000 Cutbanks cave **
Ha: HATBORO-----	1.000 Very limited ** 1.000 Depth to saturated zone 1.000 Cutbanks cave 0.800 Flooding
IuB: IUKA-----	1.000 (0.955-1.000) Very limited (Somewhat limited to Very limited) ** 1.000 (0.955-1.000) Depth to saturated zone 0.100 Cutbanks cave
KcE3: KELLY-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.837 (0.163-1.000) Slope 0.500 (0.000-1.000) Too clayey (Not too clayey to Too clayey)
KeB2: KELLY-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (1.000-1.000) Depth to saturated zone 0.420 Depth to hard bedrock
KeC2: KELLY-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.500 (0.000-1.000) Too clayey (Not too clayey to Too clayey)
KhC2: KEYPORT-----	1.000 Very limited ** 1.000 Cutbanks cave 0.986 (0.612-1.000) Depth to saturated zone
Kn: KINKORA-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.125 (0.000-0.875) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
LeB2: LEGORE-----	1.000 Very limited ** 1.000 Cutbanks cave
LeC2: LEGORE-----	1.000 Very limited ** 1.000 Cutbanks cave 0.633 (0.000-1.000) Slope (No slope limitation to Slope)
LgC3: LEGORE-----	1.000 Very limited ** 1.000 Cutbanks cave 0.633 (0.000-1.000) Slope (No slope limitation to Slope)
Ll: LEONARDTOWN----	1.000 Very limited ** 1.000 Depth to saturated zone 0.500 (0.000-0.500) Depth to dense layer (No dense layer limitation to Depth to dense layer) 0.100 Cutbanks cave
LnB2: LINGANORE-----	0.457 Somewhat limited ** 0.457 Depth to soft bedrock 0.100 Cutbanks cave
LnC2: LINGANORE-----	0.633 (0.457-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.457 Depth to soft bedrock 0.100 Cutbanks cave
LnD2: LINGANORE-----	1.000 Very limited ** 1.000 Slope 0.457 Depth to soft bedrock 0.100 Cutbanks cave
LoE: LINGANORE-----	1.000 Very limited ** 1.000 Slope 0.457 Depth to soft bedrock 0.100 Cutbanks cave
Md: MADE LAND-----	0.100 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.100 Cutbanks cave ** 0.041 (0.000-1.000) Slope (No slope limitation to Slope)
MgB2: MANOR-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
MgC2: MANOR-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
MgC3: MANOR-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
M1A: MANOR-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
M1B2: MANOR-----	0.100 Somewhat limited ** 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
MlC2: MANOR-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
MlC3: MANOR-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
MlD2: MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MlD3: MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MlE: MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MnD: MANOR-----	0.959 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.959 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
MnF: MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
Mo: MIXED ALLUVIAL LAND-----	0.955 Somewhat limited *+ 0.955 Depth to saturated zone 0.600 Flooding 0.100 Cutbanks cave
MpB2: MONTALTO-----	0.100 (0.100-0.875) Somewhat limited *+ 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
MpC2: MONTALTO-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
MqC3: MONTALTO-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
MrE: MONTALTO-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
RELAY-----	1.000 Very limited *+ 1.000 Slope 0.133 Depth to hard bedrock 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
MsD:	
MONTALTO-----	0.959 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.959 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
RELAY-----	0.959 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.959 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
MsF:	
MONTALTO-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
RELAY-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave 0.031 (0.000-0.875) Too clayey (Not too clayey to Too clayey)
MtB2:	
MT.AIRY-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave
MtC2:	
MT.AIRY-----	0.633 (0.457-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.457 Depth to soft bedrock 0.100 Cutbanks cave
MtC3:	
MT.AIRY-----	0.633 (0.457-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.457 Depth to soft bedrock 0.100 Cutbanks cave
MtD2:	
MT.AIRY-----	1.000 Very limited *+ 1.000 Slope 0.457 Depth to soft bedrock 0.100 Cutbanks cave
MtE:	
MT.AIRY-----	1.000 Very limited *+ 1.000 Slope 0.457 Depth to soft bedrock 0.100 Cutbanks cave
NeB2:	
NESHAMINY-----	0.100 (0.100-0.172) Somewhat limited *+ 0.100 Cutbanks cave
NeC2:	
NESHAMINY-----	0.633 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
NsD3:	
NESHAMINY-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
ReC2:	
RELAY-----	0.133 (0.133-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.133 Depth to hard bedrock 0.100 Cutbanks cave 0.041 (0.000-1.000) Slope (No slope limitation to Slope)

Map symbol and soil name	ENG - Shallow Excavations
RuB2: RUMFORD-----	1.000 Very limited *+ 1.000 Cutbanks cave
RuC2: RUMFORD-----	1.000 Very limited *+ 1.000 Cutbanks cave
RuD2: RUMFORD-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.837 (0.163-1.000) Slope
ScB: SANDY AND CLAYEY LAND-----	1.000 Very limited *+ 1.000 Cutbanks cave
SANDY AND CLAYEY LAND-----	0.639 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.639 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
ScD: SANDY AND CLAYEY LAND-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.163 (0.000-1.000) Slope (No slope limitation to Slope)
SANDY AND CLAYEY LAND-----	0.639 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.639 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.163 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
ScE: SANDY AND CLAYEY LAND-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave
SANDY AND CLAYEY LAND-----	1.000 Very limited *+ 1.000 Slope 0.639 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
SfB2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave
SfC2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave
SfD2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.163 (0.000-0.959) Slope (No slope limitation to Slope)
S1B2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave
S1C2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave
S1D2: SASSAFRAS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.837 (0.163-1.000) Slope

Map symbol and soil name	ENG - Shallow Excavations
<b>SsE:</b>	
SASSAFRAS-----	1.000 Very limited *+ 1.000 Slope 1.000 Cutbanks cave
<b>St:</b>	
STONY LAND-----	1.000 (0.100-1.000) Very limited (Somewhat limited to Very limited) *+ 1.000 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
<b>SuB2:</b>	
SUNNYSIDE-----	1.000 Very limited *+ 1.000 Cutbanks cave
<b>SuD2:</b>	
SUNNYSIDE-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.163 (0.000-1.000) Slope (No slope limitation to Slope)
<b>W:</b>	
WATER-----	1.000 Very limited *+ 1.000 Slope *+ 0.100 Cutbanks cave *+
<b>WaA:</b>	
WATCHUNG-----	1.000 Very limited *+ 1.000 Depth to saturated zone 0.719 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
<b>WaB:</b>	
WATCHUNG-----	1.000 Very limited *+ 1.000 Depth to saturated zone 0.719 (0.000-1.000) Too clayey (Not too clayey to Too clayey) 0.100 Cutbanks cave
<b>WoB2:</b>	
WOODSTOWN-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.999 (0.820-1.000) Depth to saturated zone

ALL VALUES ARE ROUNDED.

\* INDICATES NULL DATA WAS USED.

+ INDICATES DEFAULT VALUES WERE USED.

