

(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
ArA:	
ABBOTTSTOWN-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.100 Cutbanks cave
READINGTON-----	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
ArB2:	
ABBOTTSTOWN-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.100 Cutbanks cave
READINGTON-----	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
BaA:	
BAILE-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.100 Cutbanks cave
BaB:	
BAILE-----	1.000 Very limited ** 1.000 Depth to saturated zone 0.100 Cutbanks cave
Be:	
BERMUDIAN-----	1.000 Very limited ** 1.000 Cutbanks cave 0.600 Flooding 0.352 (0.000-0.955) Depth to saturated zone (No wetness depth limitation to Depth to saturated zone)
BrA:	
BIRDSBORO-----	0.612 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.612 (0.000-1.000) Depth to saturated zone (No wetness depth limitation to Depth to saturated zone) 0.100 Cutbanks cave
BrB2:	
BIRDSBORO-----	0.612 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.612 (0.000-1.000) Depth to saturated zone (No wetness depth limitation to Depth to saturated zone) 0.100 Cutbanks cave
Bs:	
BOWMANSVILLE-----	1.000 Very limited ** 1.000 Depth to saturated zone 1.000 Cutbanks cave 0.800 Flooding
BuA:	
BUCKS-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
BuB2:	
BUCKS-----	0.100 Somewhat limited ** 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
CaC2: CARDIFF-----	0.738 (0.420-1.000) Somewhat limited (Somewhat limited to Very limited) *+ 0.738 (0.166-1.000) Content of large stones 0.000-0.500 No caving limitation to Cutbanks cave 0.420 Depth to hard bedrock
CeA: CHESTER-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
CeB2: CHESTER-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
CeC2: 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
CeC3: 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
Ch: CODORUS-----	1.000 Very limited *+ 1.000 Depth to saturated zone 1.000 Cutbanks cave 0.600 Flooding
Cm: COMUS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.600 Flooding
CnA: COMUS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.600 Flooding
CnB: COMUS-----	1.000 Very limited *+ 1.000 Cutbanks cave 0.600 Flooding
CoA: CONESTOGA-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
CoB2: CONESTOGA-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
CoC2: CONESTOGA-----	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
CoC3: CONESTOGA-----	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
CoD3: CONESTOGA-----	1.000 Very limited *+ 1.000 Slope 0.100 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

Map symbol and soil name	ENG - Shallow Excavations
DeB2:	
DELANCO-----	1.000 (1.000-1.000) Very limited *+ 1.000 (1.000-1.000) Depth to saturated zone 0.100 Cutbanks cave
ElB2:	
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
ElC2:	
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
EmD3:	
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
EnB2:	
ELSINBORO-----	0.156 Somewhat limited *+ 0.156 Depth to saturated zone 0.100 Cutbanks cave
EnC2:	
ELSINBORO-----	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
EsA:	
ELSINBORO-----	0.156 Somewhat limited *+ 0.156 Depth to saturated zone 0.100 Cutbanks cave
EsB2:	
ELSINBORO-----	0.156 Somewhat limited *+ 0.156 Depth to saturated zone 0.100 Cutbanks cave
EsC2:	
ELSINBORO-----	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
GcB2:	
GLENELG-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
GcC2:	
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
GcC3:	
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
GcD2:	
GLENELG-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
GcD3:	
GLENELG-----	1.000 Very limited *+ 1.000 Slope

Map symbol and soil name	ENG - Shallow Excavations
	0.100 Cutbanks cave
G1A: GLENELG-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
G1B2: GLENELG-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
G1B3: GLENELG-----	0.100 Somewhat limited ** 0.100 Cutbanks cave
G1C2: 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
G1C3: 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
GvA: 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
GvB: 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
HaA: HAGERSTOWN-----	0.100 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.100 Cutbanks cave 0.011 (0.000-1.000) Too clayey (Not too clayey to Too clayey)
HaB2: HAGERSTOWN-----	0.100 (0.100-1.000) Somewhat limited (Somewhat limited to Very limited) ** 0.100 Cutbanks cave 0.011 (0.000-1.000) Too clayey (Not too clayey to Too clayey)
HaC2: HAGERSTOWN-----	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 0.011 (0.000-1.000) Too clayey (Not too clayey to Too clayey)
Ht: HATBORO-----	1.000 Very limited ** 1.000 Depth to saturated zone 1.000 Cutbanks cave 0.800 Flooding
K1B2: KLINESVILLE-----	1.000 Very limited ** 1.000 Depth to soft bedrock 0.100 Cutbanks cave
KsD4: KLINESVILLE-----	1.000 Very limited ** 1.000 Depth to soft bedrock 1.000 (0.000-1.000) Slope (No slope limitation to Slope) 0.100 Cutbanks cave
KsF3: KLINESVILLE-----	1.000 Very limited ** 1.000 Depth to soft bedrock 1.000 Slope 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
LbB2:	
LEWISBERRY-----	1.000 Very limited *+ 1.000 Cutbanks cave
LbC2:	
LEWISBERRY-----	1.000 Very limited *+ 1.000 Cutbanks cave
	0.633 (0.000-1.000) Slope (No slope limitation to Slope)
LbD:	
LEWISBERRY-----	1.000 Very limited *+ 1.000 Slope
	1.000 Cutbanks cave
Le:	
LINDSIDE-----	1.000 Very limited *+ 1.000 Cutbanks cave
	1.000 (0.955-1.000) Depth to saturated zone
	0.600 Flooding
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
LnC3:	
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
LnE:	
LINGANORE-----	1.000 Very limited *+ 1.000 Slope
	0.457 Depth to soft bedrock
	0.100 Cutbanks cave
Md:	
MADE LAND-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave *+
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
MgD2:	
MANOR-----	1.000 Very limited *+ 1.000 Slope
	0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
MgD3:	
MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MlB2:	
MANOR-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
MlB3:	
MANOR-----	0.100 Somewhat limited *+ 0.100 Cutbanks cave
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
MnC:	
MANOR-----	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)
MnD:	
MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MnE:	
MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
MnF:	
MANOR-----	1.000 Very limited *+ 1.000 Slope 0.100 Cutbanks cave
Mo:	
MELVIN-----	1.000 Very limited *+ 1.000 Depth to saturated zone 0.600 Flooding 0.100 Cutbanks cave
MtA:	
MT.AIRY-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave

Map symbol and soil name	ENG - Shallow Excavations
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
PeB2:	
PENN-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave
PhB2:	
PENN-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave
PhC2:	
PENN-----	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
PhC3:	
PENN-----	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
PnA2:	
PENN-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave
PnB2:	
PENN-----	0.457 Somewhat limited *+ 0.457 Depth to soft bedrock 0.100 Cutbanks cave
PnC2:	
PENN-----	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
PnC3:	
PENN-----	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

Map symbol and soil name	ENG - Shallow Excavations
PoD:	
PENN-----	1.000 Very limited ** 1.000 Slope 0.457 Depth to soft bedrock 0.100 Cutbanks cave
PsB2:	
PENN-----	0.457 Somewhat limited ** 0.457 Depth to soft bedrock 0.100 Cutbanks cave
STEINSBURG-----	1.000 Very limited ** 1.000 Cutbanks cave 0.256 Depth to soft bedrock
PsC3:	
PENN-----	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
STEINSBURG-----	1.000 Very limited ** 1.000 Cutbanks cave 0.633 (0.000-1.000) Slope (No slope limitation to Slope) 0.256 Depth to soft bedrock
RaA:	
RARITAN-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (0.955-1.000) Depth to saturated zone
RaB:	
RARITAN-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (0.955-1.000) Depth to saturated zone
Ro:	
ROWLAND-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (0.955-1.000) Depth to saturated zone 0.600 Flooding
StB2:	
STEINSBURG-----	1.000 Very limited ** 1.000 Cutbanks cave 0.256 Depth to soft bedrock
StD3:	
STEINSBURG-----	1.000 Very limited ** 1.000 Cutbanks cave 1.000 (0.000-1.000) Slope (No slope limitation to Slope) 0.256 Depth to soft bedrock
UrA:	
URBANA-----	1.000 (1.000-1.000) Very limited ** 1.000 (1.000-1.000) Depth to saturated zone 0.100 Cutbanks cave
UrB2:	
URBANA-----	1.000 (1.000-1.000) Very limited ** 1.000 (1.000-1.000) Depth to saturated zone 0.100 Cutbanks cave
Ws:	
WILTSHIRE-----	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

Map symbol and
soil name

ALL VALUES ARE ROUNDED.

* INDICATES NULL DATA WAS USED.

+ INDICATES DEFAULT VALUES WERE USED.

