Series Map Unit Symbol Map Unit Description

Albrighto	4 h D	Albrighta ailt loom 2 to 9 paraant alanca
Albrights	ADD	Albrights silt loam, 8 to 15 percent slopes
Albrights	ADC	Albrights sill loan, 8 to 15 percent slopes
Albrights	AcC	Albrights very stony ident, 0 to 0 percent slopes
Alloghopy	ALC	Allegheny silt leam, 2 to 8 percent slopes
Andover	AnB AnB	Andover channery learn. 0 to 8 percent slopes
Andover	And	Andover channely loam, 0 to 8 percent slopes
Andover	And	Andover charmery loam, 8 to 15 percent slopes
Andover	AUD	Andover very story loam, 8 to 15 percent slopes
Armogh	A0C ArA	Andover very stony loan, 8 to 15 percent slopes
Armagh		Armagh silt loam, 0 to 3 percent slopes
Athing	AID A+	Athlagh sill loam
Rochor	Ro	Aikins Sili Ioam Bashar Jaam
Borke	BVB	Basher to an 3 to 8 percent slopes
Berko	DKD DKC	Berks shally slit loam, 3 to 15 percent slopes
Berko		Berks shally silt loam, 15 to 25 percent clopes
Derks		Berks shary silt loam, 15 to 25 percent slopes
Derks		Berks very story sin idam, o to 25 percent slopes
		cilent part of unit or well on to Darke parts
(Interpretations		Prinkerton cilt leam. O to 2 percent elence
Brinkerton		Brinkerton silt loam, 0 to 3 percent slopes
Brinkerton		Brinkerton silt loam, 3 to 6 percent slopes.
Drinkerton		Brinkerton sitt toam, o to 15 percent slopes
Brinkenton	BSB D4D	Brinkerton very stony slit loarn, 0 to 8 percent slopes
Buchanan	BIB	Buchanan loam, 2 to 8 percent slopes
Buchanan	BuB	Buchanan channery loam, 3 to 8 percent slopes
Buchanan	BUC	Buchanan channery loam, 8 to 15 percent slopes
Buchanan	BXB	Buchanan extremely stony loam, 0 to 8 percent slopes
Buchanan	BXD	Buchanan extremely stony loam, 8 to 25 percent slopes
Carlisle		Carriste muck
Cavode	CdA	Cavode silt loam, 0 to 3 percent slopes
Cavode	CaB	Cavode silt loam, 3 to 8 percent slopes
Chagrin	Ch	
Clarksburg	CKA	Clarksburg silt loam, 0 to 3 percent slopes
Clarksburg	CKB	Clarksburg silt loam, 3 to 8 perc+C70ent slopes
Clymer	CIB	Clymer sandy loam, 3 to 8 percent slopes
Clymer		Clymer sandy loam, 8 to 15 percent slopes
Clymer	CVB	Clymer very stony sandy loam, 0 to 8 percent slopes
Clymer		Clymer very stony sandy loam, 8 to 25 percent slopes
Dunning	Du	
Edom	EdB	Edom silt loam, 2 to 8 percent slopes
Edom	EdC	Edom silt loam, 8 to 15 percent slopes
Edom	EdD	Edom silt loam, 15 to 25 percent slopes
Ernest	ErB	Ernest channery silt loam, 3 to 8 percent slopes
Ernest	ErC	Ernest channery silt loam, 8 to 15 percent slopes
Ernest	ErD	Ernest channery silt loam, 15 to 25 percent slopes
Ernest	EvB	Ernest very stony silt loam, 3 to 8 percent slopes
Ernest	EvD	Ernest very stony silt loam, 8 to 25 percent

Septic tank absorption fields

Severe: seasonal high water table; moderately slow permeability Slight Severe: high water table; slow permeability Severe: high water table; flooding; moderately slow to slow permeability Severe: flooding; seasonal high water table Severe: depth to bedrock Severe: depth to bedrock Severe: slope; depth to bedrock Severe: slope; depth to bedrock Severe: slope; depth to bedrock

Severe: high water table; slow permeability Severe: seasonal high water table; slow permeability; large stones Severe: seasonal high water table; slow permeability; large stones Severe: high water table; flooding; organic material Severe: high water table; slow permeability Severe: high water table; slow permeability Severe: flooding Severe: high water table; slow permeability Severe: high water table; slow permeability Slight Moderate: slope Moderate: large stones Severe: slope Severe: flooding; slow permeability; high water table Moderate²: depth to bedrock Moderate²: slope; depth to bedrock Severe²: slope Severe: slope; seasonal high water table; moderately slow and slow permeability

Severe: slope; seasonal high water table; moderately slow and slow permeability Severe: slope; seasonal high water table; moderately slow and slow permeability Severe: slope; seasonal high water table; moderately slow and slow permeability Severe: slope; seasonal high water table; moderately slow and slow permeability

Sewage lagoons

Moderate: slope; small stones Severe: slope Moderate: slope; small and large stones Severe: slope Moderate: slope; moderate permeability Moderate: slope; small stones; inflow hazard Severe: slope Severe: slope Moderate: slope; small and large stones; inflow hazard Moderate: slope; depth to bedrock; inflow hazard Moderate: slope; depth to bedrock; inflow hazard Severe: flooding Severe: flooding; permeable substratum Severe: depth to bedrock; moderately rapid permeability; small stones Severe: slope; depth to bedrock; moderately rapid permeability; small stones Severe: slope; depth to bedrock; moderately rapid permeability; small stones Severe: slope; depth to bedrock; moderately rapid permeability; small stones Severe: slope; depth to bedrock; moderately rapid permeability; small stones Slight; inflow hazard Moderate: slope: inflow hazard Severe: slope Moderate: slope; large stones; inflow hazard Moderate: slope; small stones Moderate: slope; small stones Severe: slope Severe: large stones Severe: slope; large stones Severe: organic material: flooding: moderately rapid permeability Moderate: depth to bedrock; inflow hazard Moderate: depth to bedrock: inflow hazard Severe: flooding; permeable substratum Slight Moderate: slope Severe: moderately rapid permeability Severe: slope; moderately rapid permeability Severe: moderately rapid permeability Severe: slope; moderately rapid permeability Severe: flooding Moderate²: slope; moderate permeability; depth to bedrock; small stones Severe²: slope Severe²: slope Moderate: slope Severe: slope Severe: slope Moderate: slope; large stones Severe: slope

Dwellings with basements

Moderate: seasonal high water table Moderate: slope; seasonal high water table Moderate: large stones; seasonal high water table Moderate: slope; large stones; seasonal high water table Slight Severe: high water table Severe: flooding: high water table Severe: flooding Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: slope Severe: slope Severe: high water table Severe: high water table Severe: high water table Severe: high water table Moderate: seasonal high water table Moderate: seasonal high water table Moderate: slope;seasonal high water table Severe: large stones Severe: slope; large stones Severe: high water table: flooding: organic materials Severe: seasonal high water table Severe: seasonal high water table Severe: flooding Moderate: seasonal high water table; shrink-swell potential Moderate: seasonal high water table; shrink-swell potential Slight Moderate: slope Moderate: large stones Severe: slope Severe: flooding; high water table Moderate: shrink-swell potential; depth to bedrock Moderate: slope; shrink-swell potential; depth to bedrock Severe: slope Moderate: seasonal high water table; shrink-swell potential Moderate: seasonal high water table: shrink-swell potential Severe: slope Moderate: large stones; seasonal high water table; shrink-well potential Severe: slope

Lawns and landscaping

Slight Moderate: slope Moderate: large stones Moderate: slope; large stones Slight Severe: high water table Severe: flooding; high water table Moderate: flooding Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: slope Severe: slope

Severe: high water table Severe: high water table Severe: high water table Severe: high water table Slight Slight Moderate: slope Severe: large stones Severe: slope; large stones Severe: high water table; flooding; surface texture Moderate: seasonal high water table Moderate: seasonal high water table Moderate: flooding Slight Slight Slight Moderate: slope Moderate: large stones Severe: slope Severe: flooding; high water table Slight Moderate: slope Severe: slope Slight Moderate: slope Severe: slope Moderate: large stones Severe: slope

Local roads and streets

Moderate: frost action Moderate: slope: frost action Moderate: frost action Moderate: slope; frost action Severe: frost action Severe: high water table; frost action Severe: flooding; high water table; frost action Moderate: flooding; frost action Slight Moderate: slope; Severe: slope Severe: slope Severe: slope Severe: high water table; frost action Moderate: frost action Moderate: frost action Moderate: slope; frost action Moderate: large stones; frost action Severe: slope Severe: high water table; flooding; frost action; organic material Severe: frost action Severe: frost action Moderate: flooding; frost action Moderate: frost action; shrink-swell potential Moderate: frost action; shrink-swell potential Slight Moderate: slope Slight Severe: slope Severe: flooding; high water table; frost action Moderate: frost action; shrink-swell potential Moderate: slope; frost action; shrink-swell potential Severe: slope Moderate: shrink-swell potential; frost action Moderate: slope: shrink-swell potential: frost action Severe: slope Moderate: shrink-swell potential; frost action Severe: slope

Sanitary landfill¹ (trench)

Severe: seasonal high water table Slight Severe: high water table Severe: high water table Severe: high water table Severe: high water table Severe: high water table; depth to bedrock Severe: high water table; depth to bedrock Severe: flooding; high water table Severe: flooding; permeable substratum; seasonal high water table Severe: depth to bedrock; moderately rapid permeability Severe: slope; depth to bedrock; moderately rapid permeability Severe: high water table Severe: high water table Severe: high water table Severe: high water table Severe: seasonal high water table Severe: seasonal high water table Severe: seasonal high water table Severe: large stones; seasonal high water table Severe: large stones; seasonal high water table Severe: high water table; moderately rapid permeability; organic material; flooding Severe: depth to bedrock; seasonal high water table Severe: depth to bedrock: seasonal high water table Severe: flooding; permeable substratum Severe: seasonal high water table Severe: seasonal high water table Severe: moderately rapid permeability Severe: moderately rapid permeability Severe: moderately rapid permeability Severe: moderately rapid permeability Severe: flooding; high water table; too clayey Severe: too clayey; depth to bedrock Severe: too clayey; depth to bedrock Severe: too clayey; depth to bedrock Severe: seasonal high water table Severe: seasonal high water table

Gilpin	GIB	Gilpin channery silt loam, 2 to 8 percent slopes
Gilpin	GIC	Gilpin channery silt loam, 8 to 15 percent slopes
Gilpin	GID	Gilpin channery silt loam, 15 to 25 percent slopes
Hagerstown	HaA	Hagerstown silt loam, 0 to 3 percent slopes
Hagerstown	HaB	Hagerstown silt loam, 3 to 8 percent slopes
Hagerstown	HaC	Hagerstown silt loam, 8 to 15 percent slopes
Hagerstown	HcB	Hagerstown silty clay loam, 3 to 8 percent slopes
Hagerstown	HcC	Hagerstown silty clay loam, 8 to 15 percent slopes
Haderstown	HcD	Hagerstown silty clay loam. 15 to 25 percent slopes
Hazelton	HhB	Hazelton channery sandy loam, 3 to 8 percent slopes
Hazelton	HhC	Hazelton channery sandy loam, 8 to 15 percent slopes
Hazelton	HhD	Hazelton channery sandy loam, 15 to 25 percent slopes
Hazelton	HSB	Hazelton extremely stony sandy loam, gently sloping
Hazelton	HSD	Hazelton extremely stony sandy loam, moderately steep
	HTF	Hazelton-Dekalb association, very steep (Hazelton part)
Hazelton	HTF	Hazelton-Dekalb association, very steep (Dekalb part)
Hublersburg	HuA	Hublersburg silt loam, 0 to 3 percent slopes
Hublersburg	HuB	Hublersburg silt loam, 3 to 8 percent slopes
Hublersburg	HuC	Hublersburg silt loam, 8 to 15 percent slopes
Hublersburg	HuD	Hublersburg silt loam, 15 to 25 percent slopes
Laidig	LaB	Laidig channery loam, 3 to 8 percent slopes
Laidig	LaC	Laidig channery loam, 8 to 15 percent slopes
Laidig	LaD	Laidig channery loam, 15 to 25 percent slopes
Laidig	LcB	Laidig extremely stony loam, 0 to 8 percent slopes
Laidig	LcD	Laidig extremely stony loam, 8 to 25 percent slopes
Laidig	LDF	Laidig extremely stony loam, steep
Leck Kill	LkB	Leck Kill channery silt loam, 3 to 8 percent slopes
Leck Kill	LkC	Leck Kill channery silt loam, 8 to 15 percent slopes
Leck Kill	LKD	Leck Kill channery silt loam, 15 to 25 percent slopes
Leck Kill	LIB	Leck Kill very stony slit loam, 0 to 8 percent slopes
Leck Kill		Leck Kill very stony slit loam, 8 to 25 percent slopes
		Leck Kill and Calvin soils, steep (Leck Kill part)
Leck Kill		Leck Kill and Calvin solls, steep (Calvin part)
Leetonia		Leetonia extremely stony loanty sand, 0 to 12 percent slopes
Leetonia	LVB	Leetonia sand, variant, 3 to 8 percent slopes
Leetonia	LVC	Leetonia sand, variant, 8 to 15 percent slopes
Lindside		Lindside solis
Maakaavilla	MaD	Markes silt loam, 2 to 10 percent slopes
Meckesville	MoC	Meckesville silt loam, 3 to 5 percent slopes
Meckesville		Meckesville very story sitt learn. 0 to 8 percent clopes
Meckesville		Meckesville very story sit loam, 0 to 8 percent slopes
Molvin	Mm	Melvin sit loam
Millhoim	MoP	Millhoim cilt loom 2 to 8 percent clopes
Millhoim	MaC	Millheim ailt loam 9 to 15 percent clopes
		Nillineirin silt learn, 8 to 15 percent slopes
	IVIND Map	willineim silt loam, 15 to 25 percent slopes
Iviononganela		Norrigen conductors 2 to 8 percent slopes
IVIOITISON	INILR	worrison sandy loam, 2 to 8 percent slopes

Severe: depth to bedrock Severe: depth to bedrock Severe: slope; depth to bedrock Moderate²: depth to bedrock Moderate²: depth to bedrock Moderate²: slope; depth to bedrock Moderate²: depth to bedrock Moderate²: slope; depth to bedrock Severe²: slope Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: large stones Severe: slope; large stones Severe: slope; large stones Severe: slope; depth to bedrock; large stones Slight Slight² Moderate²: slope Severe²: slope Severe: moderately slow permeability Severe: moderately slow permeability Severe: slope; moderately slow permeability Severe: moderately slow permeability; large stones Severe: moderately slow permeability; large stones Severe: slope; large stones; moderately slow permeability Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: slope Moderate: large stones; depth to bedrock Severe: slope Severe: slope; depth to bedrock Severe: large stones; depth to bedrock Slight² Moderate²: slope Severe: flooding; seasonal high water table Severe: high water table; slow permeability; depth to bedrock Severe: moderately slow permeability Severe: moderately slow permeability Severe: moderately slow permeability Severe: slope; moderately slow permeability Severe; flooding; high water table Moderate²: depth to bedrock Moderate²: slope; depth to bedrock Severe²: slope Severe: seasonal high water table; moderately slow permeability Slight

Severe: depth to bedrock Severe: slope; depth to bedrock Severe: slope: depth to bedrock Moderate²: moderate permeability; depth to bedrock Moderate²: slope; moderate permeability; depth to bedrock Severe²: slope Moderate²: slope: moderate permeability: depth to bedrock Severe²: slope Severe²: slope Severe: moderately rapid permeability and rapid permeability; small stones Severe: slope; moderately rapid permeability and rapid permeability; small stones Severe: slope: moderately rapid and rapid permeability: small stones Severe: large and small stones; moderately rapid and rapid permeability Severe: slope; large and small stones; moderately rapid and rapid permeability Severe: slope; moderately rapid permeability Severe: slope; depth to bedrock; large stones; moderately rapid permeability Moderate: moderate permeability Moderate²: slope: moderate permeability Severe²: slope Severe²: slope Moderate: slope; small stones Severe: slope Severe: slope Severe: large stones Severe: slope; large stones Severe: slope; large stones Severe: moderately rapid permeability Severe: slope; moderately rapid permeability Severe: slope; moderately rapid permeability Severe: moderately rapid permeability Severe: slope; moderately rapid permeability Severe: slope; moderately rapid permeability Severe: slope; moderately rapid permeability Severe: large and small stones; moderately rapid permeability Severe: rapid permeability Severe: slope; rapid permeability Severe: flooding; permeable substratum Severe: depth to bedrock; small stones Moderate: slope Severe: slope Moderate: slope; large stones Severe: slope Severe: flooding Moderate²: slope: moderate permeability: depth to bedrock Severe²: slope Severe²: slope Moderate: slope Severe: moderately rapid permeability

Moderate: depth to bedrock Moderate: slope;depth to bedrock Severe: slope Moderate: depth to bedrock; shrink-swell potential; sinkhole hazard Moderate: depth to bedrock; shrink-swell potential; sinkhole hazard Moderate: slope; depth to bedrock; shrink-swell potential; sinkhole hazard Moderate: depth to bedrock; shrink-swell potential; sinkhole hazard Moderate: slope; depth to bedrock; shrink-swell potential; sinkhole hazard Severe: slope: sinkhole hazard Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: large stones Severe: slope; large stones Severe: slope; large stones Severe: slope; depth to bedrock; large stones Moderate: shrink-swell potential; sinkhole hazard Moderate: shrink-swell potential; sinkhole hazard Moderate: slope; shrink-swell potential; sinkhole hazard Severe; slope; sinkhole hazard Slight Moderate: slope Severe: slope Severe: large stones Severe: slope; large stones Severe: slope; large stones Sliaht Moderate: slope Severe: slope Moderate: large stones Severe: slope Severe: slope Severe: slope Severe: large stones Slight Moderate: slope Severe: flooding Severe: high water table Slight Moderate: slope Moderate: large stones Severe: slope Severe: flooding; high water table Moderate: shrink-swell potential; sinkhole hazard Moderate: slope; shrink-swell potential; sinkhole hazard Severe: slope: sinkhole hazard Moderate: seasonal high water table Slight

Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Slight Slight Moderate: slope Moderate: surface texture Moderate: slope; surface texture Severe: slope Moderate: surface texture Moderate: slope; surface texture Severe: slope Severe; large stones Severe; slope; large stones Severe; slope; large stones Severe; slope; large stones Slight Slight Moderate: slope Severe; slope Slight Moderate: slope Severe: slope Severe; large stones Severe; slope; large stones Severe; slope; large stones Slight Moderate: slope Severe; slope Moderate: large stones Severe; slope Severe: slope Severe; slope Severe: large stones; surface texture Severe: surface texture Severe: surface texture Moderate: flooding Severe: high water table Slight Moderate: slope Moderate: large stones Severe: slope Severe: flooding; high water table Slight Moderate: slope Severe: slope Slight Slight

Moderate: frost action Moderate: slope; frost action Severe: slope Moderate: shrink-swell potential; frost action Moderate: shrink-swell potential; frost action Moderate: slope; shrink-swell potential; frost action Moderate: shrink-swell potential; frost action Moderate: slope; shrink-swell potential; frost action Severe: slope Slight Moderate: slope Severe: slope Moderate: large stones Severe: slope Severe: slope Severe: slope Moderate: frost action; shrink-swell potential Moderate: frost action; shrink-swell potential Moderate: slope; frost action; shrink-swell potential Severe: slope Slight Moderate: slope Severe: slope Moderate: large stones Severe: slope Severe: slope Sliaht Moderate: slope Severe: slope Slight Severe: slope Severe: slope Severe: slope Moderate: large stones Slight Moderate: slope Moderate: flooding; frost action Severe: high water table; frost action Moderate: frost action Moderate: slope: frost action Moderate: frost action Severe: slope Severe: flooding; high water table; frost action Moderate: frost action; shrink-swell potential Moderate: slope; frost action; shrink-swell potential Severe: slope Moderate: frost action Moderate: frost action

Severe: depth to bedrock Severe: depth to bedrock Severe: depth to bedrock Severe: too clayey; depth to bedrock Severe: moderately rapid and rapid permeability; depth to bedrock Severe: moderately rapid and rapid permeability; depth to bedrock Severe: moderately rapid and rapid permeability; depth to bedrock Severe: large stones; moderately rapid and rapid permeability; depth to bedrock Severe: large stones; moderately rapid and rapid permeability; depth to bedrock Severe: slope; depth to bedrock; moderately rapid and rapid permeability; large stones Severe: slope; depth to bedrock; moderately rapid permeability; large stones Severe: too clayey; Severe: too clayey; Severe: too clayey; Severe: too clayey; Slight Slight Moderate: slope Severe: large stones Severe: large stones Severe: slope; large stones Severe: moderately rapid permeability; depth to bedrock Severe: slope; moderately rapid permeability; depth to bedrock Severe: slope; moderately rapid permeability; depth to bedrock Severe: large stones; depth to bedrock Severe: rapid permeability Severe: rapid permeability Severe: flooding; permeable substratum; seasonal high water table Severe: high water table; depth to bedrock Slight Slight Moderate: large stones Moderate: slope; large stones Severe: flooding; high water table Severe: too clayey; depth to bedrock Severe: too clayey; depth to bedrock Severe: too clavey: depth to bedrock Severe: seasonal high water table Severe: moderately rapid permeability

Morrison	MrC	Morrison sandy loam, 8 to 15 percent slopes	Moderate: slope
Morrison	MrD	Morrison sandy loam, 15 to 25 percent slopes	Severe: slope
Morrison	MsB	Morrison very stony sandy loam, 0 to 8 percent slopes	Moderate: large stones
Morrison	MsD	Morrison very stony sandy loam, 8 to 25 percent slopes	Severe: slope
Morrison	MTF	Morrison very stony sandy loam, steep	Severe: slope
Murrill	MuA	Murrill channery silt loam, 0 to 3 percent slopes	Slight ²
Murrill	MuB	Murrill channery silt loam, 3 to 8 percent slopes	Slight ²
Murrill	MuC	Murrill channery silt loam, 8 to 15 percent slopes	Moderate ² : slope
Murrill	MuD	Murrill channery silt loam, 15 to 25 percent slopes	Severe ² : slope
Murrill	MvB	Murrill very stony silt loam. 0 to 8 percent slopes	Moderate ² : large stones
Murrill	MvD	Murrill very stony silt loam, 8 to 25 percent slopes	Severe ² : slope
Nolin	No	Nolin silt loam, local alluvinm, 0 to 5 percent slopes	Moderate: rare flooding
*Opequon	OhB	Opequon-Hagerstown complex, 3 to 8 percent slopes	Severe ² : depth to bedrock
*Opequon	OhC	Opequon Hagerstown complex, 8 to 15 per-cent slopes	Severe ² , depth to bedrock
*Opequon		Opequent Agenciewin complex, 5 to 15 percent slopes	Severe ² : slope: denth to bedrock
(For Hagerstow	vn nart see Hagerst	own series HcB HcC, and HcD respectively)	
	ORF	Opequon-Hagerstown complex steen (Opequon part)	Severe ² , slope, depth to bedrock
	ORE	Opequon-Hagerstown complex, steep (Opequon part)	Severe ² : slope
*Opequon	OVP	Opequer Book outeron complex, Steep (Hageistown part)	Severe ² : depth to hadroak
*Opequon		Opequoii-Rock outcrop complex, 0 to 8 percent slopes	Severe ² , dependently to hadroal
"Opequon		Opequon-Rock outcrop complex, 8 to 25 percent slopes	Severe : slope; depth to bedrock
(ROCK OUTCROP	parts of OXB and OX	Dare not rated.)	Soverey flooding, eccepted high water table
Philo		Philo and Atking your stony soils (Philo part)	Severe: flooding, seasonal high water table
Philo		Philo and Atking very story soils (Atking part)	Severe: flooding, seasonal high water table:
Pono	FK Po	Pone soils	Severe: flooding
Purdy	Pu	Purdy silt loam	Severe: high water table: slow permeability
Ravne	RaB	Ravne silt loam 2 to 10 nercent slones	Moderate: depth to bedrock
Rubble land	Ru	Rubble land	Severe: slope: large stopes
Strip mines	Sm	Strip mines acid	Variable
Tyler	Tv	Tyler silt loam	Severe: seasonal high water table: slow permeability
Ungers	UmB	Ungers channery loam 3 to 8 percent slopes	Moderate: depth to bedrock
Ungers	UmC	Ungers channery loam, 8 to 15 percent slopes	Moderate: slope: depth to bedrock
Ungers	UmD	Ungers channery loam, 15 to 25 percent slopes	Severe: slope
Ungers	UnB	Ungers very stony loam, 0 to 8 percent slopes	Moderate: large stones; depth to bedrock
Ungers	UnD	Ungers very stony loam, 8 to 25 percent slopes	Severe: slope
*Urban land	URB	Urban land (For Hagerstown part, see Hagerstown series, HaB)	Too variable to rate (requires on-site investigation)
Vanderlip	VaC	Vanderlip loamy sand, 5 to 20 percent slopes	Moderate ² : slope
Weikert	WeC	Weikert shaly silt loam, 5 to 15 percent slopes	Severe: depth to bedrock
Weikert	WeD	Weikert shaly silt loam, 15 to 25 percent slopes	Severe: slope; depth to bedrock
Wharton	WhA	Wharton silt loam 0 to 3 percent slopes	Severe: seasonal high water table; moderately slow permeability
Wharton	WhB	Wharton silt loam, 3 to 8 percent slopes	Severe: seasonal high water table; moderately slow permeability
Wharton	WhC	Wharton silt loam, 8 to 15 percent slopes	Severe: seasonal high water table; moderately slow permeability
Wyoming	Wy	Wyoming gravelly sandy loam, rarely flooded, 0 to 5 percent slopes	Moderate: rare flooding

¹Onsite studies of the underlying strata, water table, and hazards of aquifer pollution into ground water need to be made fo landfill deeper than 5 or 6 feet.

²Possible ground water pollution because of rapid permeability, coarse texture, creviced bedrock, or sinkholes.

Severe: slope; moderately rapid permeability Severe: slope; moderately rapid permeability Severe: moderately rapid permeability Severe: slope; moderately rapid permeability Moderate²: moderately rapid permeability Moderate²: slope; moderate permeability; small stones Moderate²: slope; moderate permeability; small stones Severe²: slope Severe²: slope Moderate²: slope; large and small stones; moderate permeability Severe²: slope Severe²: slope; depth to bedrock Severe²: slope; depth to bedrock; hazard of ground water contamination

Severe²: slope; depth to bedrock Severe²: slope Severe²: depth to bedrock Severe²: slope; depth to bedrock

Severe: flooding; permeable substratum Severe: flooding; permeable substratum Severe: flooding; Severe: flooding; moderately rapid permeability Slight: inflow hazard; possible pervious substratum Moderate: slope; depth to bedrock; moderate permeability Severe: slope; large stones Variable Slight: inflow hazard: possible pervious substratum Moderate: slope; depth to bedrock; moderate permeability; small stones Severe: slope Severe: slope Moderate: slope; depth to bedrock; moderate permeability; small and large stones Severe: slope Too variable to rate Severe²: slope: rapid permeability Severe: slope: depth to bedrock: moderately rapid permeability: small stones Severe: slope; depth to bedrock; moderately rapid permeability; small stones Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Severe: rapid permeability; small stones; rare flooding

Moderate: slope Severe: slope Moderate: large stones Severe: slope Severe: slope Moderate: shrink-swell potential; sinkhole hazard Moderate: shrink-swell potential; sinkhole hazard Moderate: slope; shrink-swell potential; sinkhole hazard Severe: slope; sinkhole hazard Moderate: large stones; shrink-swell potential; sinkhole hazard Severe: slope; sinkhole hazard Severe: rare flooding Severe: depth to bedrock: shrink-swell potential: sinkhole hazard Severe: depth to bedrock; shrink-swell potential; sinkhole hazard Severe: slope; depth to bedrock; low strength; shrink-swell potential; sinkhole hazard Severe: depth to bedrock; shrink-swell potential; sinkhole hazard Severe: slope; sinkhole hazard Severe: depth to bedrock: low strength: shrink-swell potential: sinkhole hazard Severe: slope; depth to bedrock; low strength; shrink-swell potential; sinkhole hazard Severe: flooding Severe: flooding; seasonal high water table Severe: flooding; high water table Severe: flooding; Severe: high water table Slight Severe: slope; large stones Variable Severe: seasonal high water table Moderate: depth to bedrock Moderate: slope; depth to bedrock Severe: slope Moderate: large stones; depth to bedrock Severe: slope Too variable to rate Moderate: slope Moderate: slope: depth to bedrock Severe: slope Moderate: seasonal high water table; shrink-swell potential Moderate: seasonal high water table; shrink-swell potential Moderate: slope; seasonal high water table; shrink-swell potential Severe: rare flooding

Table 5. Soil limitations for town and country planning

Moderate: slope Severe: slope Moderate: large stones Severe: slope Slight Slight Moderate: slope Severe: slope Moderate: large stones Severe: slope Slight Severe: Depth to bedrock Severe: Depth to bedrock

Severe: slope; depth to bedrock Severe: slope Severe: Depth to bedrock Severe: slope; depth to bedrock

Moderate: flooding Moderate: flooding Severe: flooding; high water table Moderate: flooding Severe: high water table Slight Severe: slope; large stones Severe: small stones; extremely acid material Moderate: seasonal high water table Slight Moderate: slope Severe: slope Moderate: large stones Severe: slope Too variable to rate Severe: surface texture Severe: depth to bedrock: small stones Severe: slope; depth to bedrock; small stones Slight Slight Moderate: slope Severe: small stones

Moderate: slope; frost action Severe: slope Moderate: frost action Severe: slope Severe: slope Moderate: shrink-swell potential; frost action Moderate: shrink-swell potential; frost action Moderate: slope; shrink-swell potential; frost action Severe: slope Moderate: shrink-swell potential; frost action Severe: slope Moderate: rare flooding; frost action Severe: depth to bedrock; shrink swell potential Severe: depth to bedrock; shrink swell potential Severe: slope; depth to bedrock; shrink swell potential Severe: slope; depth to bedrock; shrink swell potential Severe: slope Severe: depth to bedrock; shrink swell potential Severe: slope; depth to bedrock; shrink swell potential Moderate: flooding; frost action Moderate: flooding; frost action

Severe: flooding; high water table; frost action Moderate: flooding; frost action Severe: high water table; frost action Moderate: frost action Severe: slope; large stones Variable Severe: frost action Slight Moderate: slope Severe: slope Slight Severe slope Too variable to rate Moderate: slope Moderate: slope; depth to bedrock Severe: slope Severe: frost action Severe: frost action Severe: frost action Moderate: rare flooding

Severe: moderately rapid permeability Severe: too clayey Severe: depth to bedrock; too clayey Severe: depth to bedrock; too clayey Severe: depth to bedrock; too clayey

Severe: slope; depth to bedrock; too clayey Severe: slope; depth to bedrock; too clayey Severe: depth to bedrock; too clayey Severe: depth to bedrock; too clayey

Severe: flooding; permeable substratum; seasonal high water table Severe: flooding; seasonal high water table; permeable substratum Severe: flooding; high water table Severe: flooding; moderately rapid permeability; permeable substratum Severe: high water table; too clayey; possible pervious substratum Moderate; depth to bedrock; moderate permeability; too clayey Severe: slope; large stones Variable Severe: seasonal high water table; possible pervious substratum Severe: depth to bedrock Too variable to rate Severe: rapid permeability Severe: depth to bedrock; moderately rapid permeability Severe: depth to bedrock; moderately rapid permeability Severe: seasonal high water table; depth to bedrock Severe: seasonal high water table; depth to bedrock Severe: seasonal high water table; depth to bedrock Severe: rapid permeability