

Table ENG-4. - Building Site Development

Goochland County, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
2B:							
Appling	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
3A:							
Bolling	90	Very limited Flooding Low strength	1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding 0.60	
3B:							
Bolling	90	Very limited Flooding Low strength	1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding 0.60	
4B:							
Bourne	85	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.65 0.43	Very limited Depth to thick cemented pan Depth to saturated zone Depth to dense layer	1.00 1.00 0.50	Somewhat limited Depth to cemented pan 0.64 Depth to saturated zone 0.43 Droughty 0.02	
5:							
Buncombe	95	Very limited Flooding	1.00	Very limited Cutbanks cave Flooding	1.00 0.80	Very limited Flooding 1.00 Droughty 0.98	
Frequently flooded areas	5	Not Rated		Not Rated		Not Rated	
6B2:							
Cecil	80	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
6C2:							
Cecil	80	Very limited Low strength Slope	1.00 0.37	Somewhat limited Too clayey Slope Cutbanks cave	0.72 0.37 0.10	Somewhat limited Slope 0.37	
7B:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
7B:							
Colfax	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to thick cemented pan	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	0.99	Depth to saturated zone	1.00	Depth to cemented pan	0.99
				Cutbanks cave	0.10	Droughty	0.70
Forestdale	5	Not Rated		Not Rated		Not Rated	
7C:							
Colfax	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to thick cemented pan	1.00	Depth to saturated zone	1.00
		Depth to thick cemented pan	0.99	Depth to saturated zone	1.00	Depth to cemented pan	0.99
		Slope	0.37	Slope	0.37	Droughty	0.70
Forestdale	5	Not Rated		Not Rated		Not Rated	
8B:							
Creedmoor	90	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Low strength	1.00	Too clayey	0.28		
		Depth to saturated zone	0.75	Cutbanks cave	0.10		
8B2:							
Creedmoor	90	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Low strength	1.00	Too clayey	0.28		
		Depth to saturated zone	0.75	Cutbanks cave	0.10		
8C:							
Creedmoor	90	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Low strength	1.00	Slope	0.37	Slope	0.37
		Depth to saturated zone	0.75	Too clayey	0.28		
8C2:							
Creedmoor	90	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Low strength	1.00	Slope	0.37	Slope	0.37
		Depth to saturated zone	0.75	Too clayey	0.28		
9B:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
9B:							
Enon	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	1.00	Too clayey	0.28		
				Cutbanks cave	0.10		
9C2:							
Enon	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.46	Depth to bedrock	0.46
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Slope	0.37	Too clayey	0.28		
11B2:							
Fluvanna	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to saturated zone	0.63		
		Shrink-swell	0.50	Too clayey	0.50		
				Cutbanks cave	0.10		
Forestdale	3	Not Rated		Not Rated		Not Rated	
11C2:							
Fluvanna	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	0.63	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.50		
		Slope	0.37	Slope	0.37		
12:							
Forestdale	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Too clayey	0.28		
13A:							
Fork variant	85	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.78
		Low strength	1.00	Flooding	0.60	Flooding	0.60
		Depth to saturated zone	0.78	Cutbanks cave	0.10		
Roanoke	5	Not Rated		Not Rated		Not Rated	
14B2:							
Georgeville	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
				Cutbanks cave	0.10		
14C2:							

Table ENG-4. - Building Site Development - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
14C2:							
Georgeville	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Slope	0.37	Slope	0.37		
				Cutbanks cave	0.10		
15B2:							
Hiwassee	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.28		
				Cutbanks cave	0.10		
16B2:							
Louisburg	85	Not limited		Somewhat limited		Somewhat limited	
				Depth to hard bedrock	0.61	Content of large stones	0.03
				Cutbanks cave	0.10		
16C2:							
Louisburg	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Depth to hard bedrock	0.61	Slope	0.37
				Slope	0.37	Content of large stones	0.03
				Cutbanks cave	0.10		
16D2:							
Louisburg	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to hard bedrock	0.61	Content of large stones	0.03
				Cutbanks cave	0.10		
16E2:							
Louisburg	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to hard bedrock	0.61	Content of large stones	0.03
				Cutbanks cave	0.10		
17B2:							
Madison	80	Not limited		Somewhat limited		Not limited	
				Cutbanks cave	0.10		
17C2:							
Madison	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Slope	0.37	Slope	0.37
				Cutbanks cave	0.10		
17D2:							
Madison	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10		
18B3:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
18B3: Madison	85	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
18C3: Madison	85	Somewhat limited Slope	0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
18D3: Madison	85	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
19E3: Madison	50	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Pacolet	20	Very limited Slope Low strength	1.00 1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.50 0.10	Very limited Slope	1.00
Wedowee	10	Very limited Slope Low strength	1.00 0.22	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
21B: Masada	80	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.01	Not limited	
21C: Masada	80	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Slope Cutbanks cave Too clayey	0.37 0.10 0.01	Somewhat limited Slope	0.37
22B: Mayodan	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
22C2: Mayodan	85	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.28 0.10	Somewhat limited Slope	0.37
23:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
23:							
Monacan	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
24:							
Monacan	60	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
25B2:							
Nason	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50	Too clayey	0.03		
25C2:							
Nason	85	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Slope	0.37	Too clayey	0.03		
25D2:							
Nason	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50	Too clayey	0.03		
26B:							
Orange	85	Very limited		Very limited		Very limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Too clayey	0.28		
		Depth to saturated zone	1.00	Cutbanks cave	0.10		
26C:							
Orange	85	Very limited		Very limited		Very limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Depth to saturated zone	1.00	Too clayey	0.28		
27B2:							
Pacolet	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
				Cutbanks cave	0.10		
27C2:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
27C2:							
Pacolet	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Slope	0.37	Slope	0.37		
				Cutbanks cave	0.10		
27D2:							
Pacolet	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
				Cutbanks cave	0.10		
28B3:							
Pacolet	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
				Cutbanks cave	0.10		
28C3:							
Pacolet	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Slope	0.37	Slope	0.37		
				Cutbanks cave	0.10		
28D3:							
Pacolet	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
				Cutbanks cave	0.10		
29A:							
Pamunkey	95	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10		
31C2:							
Pinkston	85	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.37	Depth to hard bedrock	1.00	Slope	0.37
		Depth to hard bedrock	0.10	Slope	0.37	Depth to bedrock	0.10
				Cutbanks cave	0.10		
31E2:							
Pinkston	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.10	Slope	1.00	Depth to bedrock	0.10
				Cutbanks cave	0.10		
32D2:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
32D2:							
Pinkston	65	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.10	Slope	1.00	Depth to bedrock	0.10
				Cutbanks cave	0.10		
Mayodan	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
33:							
Roanoke	80	Very limited		Very limited		Very limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Low strength	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28		
Frequently flooded areas	5	Not Rated		Not Rated		Not Rated	
34B:							
Sedgefield	85	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Shrink-swell	1.00	Too clayey	0.28		
		Depth to saturated zone	0.94	Cutbanks cave	0.10		
Forestdale	5	Not Rated		Not Rated		Not Rated	
34C:							
Sedgefield	85	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.94
		Shrink-swell	1.00	Too clayey	0.28	Slope	0.04
		Depth to saturated zone	0.94	Cutbanks cave	0.10		
Forestdale	5	Not Rated		Not Rated		Not Rated	
35C2:							
Tallapoosa variant	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Slope	0.37	Slope	0.37
				Cutbanks cave	0.10		
35D2:							
Tallapoosa variant	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10		
35E2:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
35E2:							
Tallapoosa variant	85	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
36B2:							
Tatum	80	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.72 0.29 0.10	Somewhat limited Depth to bedrock	0.29
36C2:							
Tatum	80	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Too clayey Slope Depth to soft bedrock	0.72 0.37 0.29	Somewhat limited Slope Depth to bedrock	0.37 0.29
36D2:							
Tatum	85	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Too clayey Depth to soft bedrock	1.00 0.72 0.29	Very limited Slope Depth to bedrock	1.00 0.29
37:							
Tuckahoe	85	Very limited Flooding Low strength	1.00 1.00	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding	1.00
Wet spots	5	Not Rated		Not Rated		Not Rated	
38B2:							
Turbeville	80	Not limited		Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Not limited	
38C2:							
Turbeville	80	Somewhat limited Slope	0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.13 0.10	Somewhat limited Slope	0.37
39B3:							
Turbeville	90	Not limited		Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Not limited	
39C3:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
39C3:							
Turbeville	85	Somewhat limited Slope	0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.13 0.10	Somewhat limited Slope	0.37
41:							
Udorthents	85	Not Rated		Not Rated		Not Rated	
42:							
Udorthents	50	Not Rated		Not Rated		Not Rated	
Quarries	30	Not Rated		Not Rated		Not Rated	
43B:							
Vance	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
43C2:							
Vance	80	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.28 0.10	Somewhat limited Slope	0.37
44B2:							
Wedowee	80	Somewhat limited Low strength	0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
44C2:							
Wedowee	80	Somewhat limited Slope Low strength	0.37 0.22	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
44D2:							
Wedowee	85	Very limited Slope Low strength	1.00 0.22	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
45B3:							
Wedowee	85	Somewhat limited Low strength	0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
45C3:							
Wedowee	85	Somewhat limited Slope Low strength	0.37 0.22	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
45D3:							

Table ENG-4. - Building Site Development - Continued

Goochland County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
45D3:							
Wedowee	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	0.22	Cutbanks cave	0.10		
46:							
Wehadkee	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
				Flooding	0.80		
47B2:							
Wilkes	85	Somewhat limited		Very limited		Very limited	
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Low strength	0.22	Cutbanks cave	0.10	Droughty	0.89
						Content of large stones	<0.01
47C2:							
Wilkes	85	Somewhat limited		Very limited		Very limited	
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Slope	0.37	Slope	0.37	Droughty	0.89
		Low strength	0.22	Cutbanks cave	0.10	Slope	0.37
47D2:							
Wilkes	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	0.22	Cutbanks cave	0.10	Droughty	0.89
47E2:							
Wilkes	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	0.22	Cutbanks cave	0.10	Droughty	0.89
W:							
Water	100	Not Rated		Not Rated		Not Rated	