

Table ENG-4. - Building Site Development

Caroline 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
1A:							
Altavista	90	Somewhat limited Flooding Depth to saturated zone	0.20 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
Chewacla	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
Chastain	2	Not Rated		Not Rated		Not Rated	
Riverview	1	Not Rated		Not Rated		Not Rated	
Tomotley	1	Not Rated		Not Rated		Not Rated	
1B:							
Altavista	90	Somewhat limited Flooding Depth to saturated zone	0.20 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
Chastain	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
Riverview	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
Tomotley	2	Not Rated		Not Rated		Not Rated	
2B:							
Appling	80	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not limited	
Emporia	10	Not Rated		Not Rated		Not Rated	
Helena	10	Not Rated		Not Rated		Not Rated	
2C:							
Appling	90	Very limited Low strength Slope	1.00 0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.28 0.10	Somewhat limited Slope	0.37
Emporia	6	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
2C:							
Helena	4	Not Rated		Not Rated		Not Rated	
3A:							
Bama	90	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
Emporia	6	Not Rated		Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated		Not Rated	
3B:							
Bama	90	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
Emporia	6	Not Rated		Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated		Not Rated	
4A:							
Bibb	70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
Chastain	15	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey	1.00 0.80 0.13	Very limited Flooding Depth to saturated zone	1.00 1.00
Chewacla	5	Not Rated		Not Rated		Not Rated	
fine loamy poorly drained soils	4	Not Rated		Not Rated		Not Rated	
ponded soils	3	Not Rated		Not Rated		Not Rated	
very poorly drained muck soils	3	Not Rated		Not Rated		Not Rated	
5B:							
Bojac	85	Somewhat limited Flooding	0.20	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Altavista	5	Not Rated		Not Rated		Not Rated	
Chewacla	4	Not Rated		Not Rated		Not Rated	
Riverview	3	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
5B:							
Tarboro	3	Not Rated		Not Rated		Not Rated	
6B:							
Cecil	90	Somewhat limited Low strength	0.78	Somewhat limited Too clayey Cutbanks cave	0.13 0.10	Not limited	
Emporia	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
7A:							
Chastain	95	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Flooding	1.00 1.00 0.80	Very limited Ponding Flooding Depth to saturated zone	1.00 1.00 1.00
Roanoke	2	Not Rated		Not Rated		Not Rated	
Rappahannock	1	Not Rated		Not Rated		Not Rated	
Riverview	1	Not Rated		Not Rated		Not Rated	
Tomotley	1	Not Rated		Not Rated		Not Rated	
8A:							
Chewacla	75	Very limited Flooding Low strength Depth to saturated zone	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Depth to saturated zone Flooding	1.00 0.60
Altavista	5	Not Rated		Not Rated		Not Rated	
Bojac	4	Not Rated		Not Rated		Not Rated	
Chastain	4	Not Rated		Not Rated		Not Rated	
Riverview	4	Not Rated		Not Rated		Not Rated	
Roanoke	4	Not Rated		Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated		Not Rated	
Rappahannock	1	Not Rated		Not Rated		Not Rated	
9C:							

Table ENG-4. - Building Site Development - Continued

Caroline 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
9C:							
Helena	65	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.22
		Shrink-swell	1.00	Too clayey	0.28	Slope	0.04
		Depth to saturated zone	0.22	Cutbanks cave	0.10		
Appling	20	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Slope	0.37	Too clayey	0.28		
				Cutbanks cave	0.10		
Emporia	6	Not Rated		Not Rated		Not Rated	
somewhat poorly drained to poorly drained, fine loamy to cla	5	Not Rated		Not Rated		Not Rated	
well drained clayey soils	4	Not Rated		Not Rated		Not Rated	
10E:							
Kempsville	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10		
Emporia	25	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	0.78	Depth to saturated zone	0.73		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Remlik	20	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.03
				Depth to saturated zone	0.15		
Chastain	3	Not Rated		Not Rated		Not Rated	
Bibb	2	Not Rated		Not Rated		Not Rated	
11A:							
Kempsville	70	Not limited		Somewhat limited		Not limited	
				Cutbanks cave	0.10		
Emporia	30	Somewhat limited		Somewhat limited		Not limited	
		Low strength	0.78	Depth to saturated zone	0.73		
		Shrink-swell	0.50	Cutbanks cave	0.10		

11B:

Table ENG-4. - Building Site Development - Continued

Caroline 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
11B:							
Kempsville	60	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
Emporia	35	Somewhat limited Low strength Shrink-swell	0.78 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.73 0.10	Not limited	
Roanoke	3	Not Rated		Not Rated		Not Rated	
11C:							
Kempsville	65	Not limited		Somewhat limited Cutbanks cave	0.10	Not limited	
Emporia	30	Somewhat limited Low strength Shrink-swell	0.78 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.73 0.10	Not limited	
Roanoke	3	Not Rated		Not Rated		Not Rated	
12A:							
Myatt	85	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
Slagle	10	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave Depth to saturated zone	0.50 0.15	Not limited	
Emporia	3	Not Rated		Not Rated		Not Rated	
Kempsville	2	Not Rated		Not Rated		Not Rated	
13E:							
Nevarc	85	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Depth to saturated zone Cutbanks cave	1.00 1.00 0.50	Very limited Slope Depth to saturated zone	1.00 0.03
Remilik	7	Not Rated		Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated		Not Rated	
14:							
Pits, gravel	85	Not Rated		Not Rated		Not Rated	
Appling	3	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
14:							
Emporia	3	Not Rated		Not Rated		Not Rated	
Kempsville	3	Not Rated		Not Rated		Not Rated	
Slagle	3	Not Rated		Not Rated		Not Rated	
Udorthents	3	Not Rated		Not Rated		Not Rated	
15A:							
Rappahannock	85	Very limited		Very limited		Not Rated	
		Ponding	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Depth to saturated zone	1.00		
		Flooding	1.00	Flooding	0.80		
Chastain	5	Not Rated		Not Rated		Not Rated	
Chewacla	5	Not Rated		Not Rated		Not Rated	
Riverview	5	Not Rated		Not Rated		Not Rated	
16B:							
Remlik	95	Not limited		Very limited		Somewhat limited	
				Cutbanks cave	1.00	Droughty	0.03
				Depth to saturated zone	0.15		
Emporia	3	Not Rated		Not Rated		Not Rated	
Slagle	2	Not Rated		Not Rated		Not Rated	
16C:							
Remlik	95	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.37	Cutbanks cave	1.00	Slope	0.37
				Slope	0.37	Droughty	0.03
				Depth to saturated zone	0.15		
Emporia	2	Not Rated		Not Rated		Not Rated	
Slagle	1	Not Rated		Not Rated		Not Rated	
16E:							
Remlik	90	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.03
				Depth to saturated zone	0.15		
Emporia	4	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
16E:							
Nevarc	4	Not Rated		Not Rated		Not Rated	
17D:							
Rion	95	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Helena	2	Not Rated		Not Rated		Not Rated	
Wateree	2	Not Rated		Not Rated		Not Rated	
Rock outcrop	1	Not Rated		Not Rated		Not Rated	
18A:							
Riverview	80	Very limited Flooding	1.00	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 0.61 0.60	Somewhat limited Flooding	0.60
Altavista	4	Not Rated		Not Rated		Not Rated	
Bojac	4	Not Rated		Not Rated		Not Rated	
Chastain	4	Not Rated		Not Rated		Not Rated	
Chewacla	4	Not Rated		Not Rated		Not Rated	
State	3	Not Rated		Not Rated		Not Rated	
Rappahannock	1	Not Rated		Not Rated		Not Rated	
19A:							
Roanoke	85	Very limited Depth to saturated zone Flooding Low strength	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Ponding	1.00 1.00 1.00
Altavista	5	Not Rated		Not Rated		Not Rated	
Chastain	5	Not Rated		Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated		Not Rated	
20B:							
Rumford	95	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Emporia	2	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
20B:							
Slagle	2	Not Rated		Not Rated		Not Rated	
20C:							
Rumford	95	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Emporia	3	Not Rated		Not Rated		Not Rated	
Slagle	2	Not Rated		Not Rated		Not Rated	
20D:							
Rumford	90	Somewhat limited Slope	0.84	Very limited Cutbanks cave Slope	1.00 0.84	Somewhat limited Slope	0.84
Emporia	3	Not Rated		Not Rated		Not Rated	
Nevarc	3	Not Rated		Not Rated		Not Rated	
Slagle	3	Not Rated		Not Rated		Not Rated	
21C:							
Slagle	55	Somewhat limited Shrink-swell Slope	0.50 0.04	Somewhat limited Cutbanks cave Depth to saturated zone Slope	0.50 0.15 0.04	Somewhat limited Slope	0.04
Kempsville	30	Somewhat limited Slope	0.04	Somewhat limited Cutbanks cave Slope	0.10 0.04	Somewhat limited Slope	0.04
excessivley drained sandy soils	6	Not Rated		Not Rated		Not Rated	
moderately well drained coarse loamy soils	6	Not Rated		Not Rated		Not Rated	
22A:							
Slagle	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave Depth to saturated zone	0.50 0.15	Not limited	
Myatt	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
Rumford	2	Not Rated		Not Rated		Not Rated	
Suffolk	2	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
22A:							
Bama	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
22B:							
Slagle	95	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave Depth to saturated zone	0.50 0.15	Not limited	
Bama	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Myatt	1	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
Rumford	1	Not Rated		Not Rated		Not Rated	
23A:							
State	90	Somewhat limited Flooding	0.20	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Chewacla	4	Not Rated		Not Rated		Not Rated	
Tarboro	4	Not Rated		Not Rated		Not Rated	
23B:							
State	90	Somewhat limited Flooding	0.20	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Chewacla	4	Not Rated		Not Rated		Not Rated	
Riverview	3	Not Rated		Not Rated		Not Rated	
Tarboro	3	Not Rated		Not Rated		Not Rated	
23C:							
State	90	Somewhat limited Flooding	0.20	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Tarboro	8	Not Rated		Not Rated		Not Rated	
24A:							

Table ENG-4. - Building Site Development - Continued

Caroline 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
24A:							
Suffolk	95	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Emporia	5	Not Rated		Not Rated		Not Rated	
24B:							
Suffolk	95	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Emporia	5	Not Rated		Not Rated		Not Rated	
25B:							
Tarboro	60	Somewhat limited Flooding	0.20	Very limited Cutbanks cave	1.00	Very limited Droughty	1.00
Bojac	35	Somewhat limited Flooding	0.20	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Altavista	2	Not Rated		Not Rated		Not Rated	
26A:							
Tomotley	55	Very limited Depth to saturated zone Flooding	1.00 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Very limited Depth to saturated zone	1.00
Roanoke	30	Very limited Depth to saturated zone Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.13 0.10	Very limited Depth to saturated zone	1.00
Altavista	3	Not Rated		Not Rated		Not Rated	
Riverview	3	Not Rated		Not Rated		Not Rated	
Bojac	2	Not Rated		Not Rated		Not Rated	
Chastain	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
State	2	Not Rated		Not Rated		Not Rated	
27C:							
Udorhents	85	Not Rated		Not Rated		Not Rated	
Bibb	5	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Caroline 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
27C:							
Bojac	5	Not Rated		Not Rated		Not Rated	
Emporia	5	Not Rated		Not Rated		Not Rated	
28A:							
Wehadkee	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
				Cutbanks cave	0.10		
Riverview	7	Not Rated		Not Rated		Not Rated	
Helena	6	Not Rated		Not Rated		Not Rated	
29A:							
Wickham	95	Somewhat limited		Very limited		Not limited	
		Flooding	0.20	Cutbanks cave	1.00		
Altavista	5	Not Rated		Not Rated		Not Rated	
29B:							
Wickham	95	Somewhat limited		Very limited		Not limited	
		Flooding	0.20	Cutbanks cave	1.00		
somewhat poorly drained soils	5	Not Rated		Not Rated		Not Rated	
30E:							
Wateree	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to hard bedrock	0.88	Droughty	0.02
				Cutbanks cave	0.10	Depth to bedrock	0.01
Rock outcrop	15	Not Rated		Not Rated		Not Rated	
Rion	10	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	