

Table ENG-4. - Building Site Development

Dinwiddie Area, 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	85	Very limited Flooding Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
State	8	Not Rated		Not Rated		Not Rated	
Roanoke	7	Not Rated		Not Rated		Not Rated	
1B:							
Altavista	85	Very limited Flooding Depth to saturated zone	1.00 0.19	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
State	8	Not Rated		Not Rated		Not Rated	
Roanoke	7	Not Rated		Not Rated		Not Rated	
2B:							
Appling	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not Rated	
Cecil	5	Not Rated		Not Rated		Not Rated	
Helena	4	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
2C:							
Appling	85	Very limited Low strength Slope	1.00 0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.28 0.10	Not Rated	
Cecil	5	Not Rated		Not Rated		Not Rated	
Helena	4	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
2D:							
Appling	85	Very limited Slope Low strength	1.00 1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.28 0.10	Not Rated	
Cecil	5	Not Rated		Not Rated		Not Rated	
Helena	4	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
3B:							
Appling	45	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Not Rated	
Urban land	40	Not Rated		Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated		Not Rated	
Cecil	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Mattaponi	2	Not Rated		Not Rated		Not Rated	
3C:							
Appling	45	Very limited Low strength Slope	1.00 0.37	Somewhat limited Slope Too clayey Cutbanks cave	0.37 0.28 0.10	Not Rated	
Urban land	40	Not Rated		Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated		Not Rated	
Cecil	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Mattaponi	2	Not Rated		Not Rated		Not Rated	

4B:

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
4B:							
Cecil	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
Appling	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
4B3:							
Cecil	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Not limited	
Appling	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
4C:							
Cecil	85	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
Appling	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
4D:							
Cecil	85	Very limited Slope Low strength	1.00 1.00	Very limited Slope Too clayey Cutbanks cave	1.00 0.72 0.10	Very limited Slope	1.00
Appling	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
4D:							
Roanoke	1	Not Rated		Not Rated		Not Rated	
5A:							
Emporia	85	Not limited		Somewhat limited		Not limited	
				Depth to saturated zone	0.72		
				Cutbanks cave	0.10		
Slagle	9	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Uchee	2	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
5B:							
Emporia	85	Not limited		Somewhat limited		Not limited	
				Depth to saturated zone	0.72		
				Cutbanks cave	0.10		
Slagle	9	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Uchee	2	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
5C:							
Emporia	85	Not limited		Somewhat limited		Not limited	
				Depth to saturated zone	0.72		
				Cutbanks cave	0.10		
Slagle	9	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Uchee	2	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
6D:							
Emporia	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
				Depth to saturated zone	0.72		
				Cutbanks cave	0.10		

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
6D:							
Slagle	30	Very limited Slope	1.00	Very limited Depth to saturated zone	1.00	Very limited Slope	1.00
		Depth to saturated zone	0.60	Slope	1.00	Depth to saturated zone	0.60
		Shrink-swell	0.50	Cutbanks cave	0.10		
Mattaponi	9	Not Rated		Not Rated		Not Rated	
Roanoke	8	Not Rated		Not Rated		Not Rated	
Uchee	8	Not Rated		Not Rated		Not Rated	
7B:							
Emporia	40	Not limited		Somewhat limited Depth to saturated zone	0.72	Not limited	
				Cutbanks cave	0.10		
Urban land	40	Not Rated		Not Rated		Not Rated	
Slagle	9	Not Rated		Not Rated		Not Rated	
Mattaponi	5	Not Rated		Not Rated		Not Rated	
Uchee	5	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
8B:							
Georgeville	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Not limited	
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
8B3:							
Georgeville	85	Very limited Low strength	1.00	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Not limited	
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
8B3:							
Roanoke	1	Not Rated		Not Rated		Not Rated	
8C:							
Georgeville	85	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		
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
8C3:							
Georgeville	85	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		
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
8D:							
Georgeville	85	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		
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
9B:							
Helena	85	Very limited		Very limited		Somewhat limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Low strength	0.22	Too clayey	0.28		
		Depth to saturated zone	0.19	Cutbanks cave	0.10		

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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:							
Appling	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Iredell	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
9C:							
Helena	85	Very limited Shrink-swell Slope Low strength	1.00 0.37 0.22	Very limited Depth to saturated zone Slope Too clayey	1.00 0.37 0.28	Somewhat limited Slope Depth to saturated zone	0.37 0.19
Appling	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Iredell	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
10B:							
Herndon	85	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Georgeville	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Iredell	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
10C:							
Herndon	85	Very limited Low strength Slope	1.00 0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Georgeville	5	Not Rated		Not Rated		Not Rated	
Helena	5	Not Rated		Not Rated		Not Rated	
Iredell	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	

11B:

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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:							
Iredell	85	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	0.50		
		Depth to saturated zone	0.75	Cutbanks cave	0.10		
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Georgeville	3	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
11C:							
Iredell	85	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	0.50	Slope	0.37
		Depth to saturated zone	0.75	Slope	0.37		
Helena	5	Not Rated		Not Rated		Not Rated	
Herndon	5	Not Rated		Not Rated		Not Rated	
Georgeville	3	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
12A:							
Mattaponi	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to saturated zone	0.35		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Emporia	7	Not Rated		Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
12B:							
Mattaponi	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to saturated zone	0.35		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Emporia	7	Not Rated		Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
12B:							
Roanoke	1	Not Rated		Not Rated		Not Rated	
12C:							
Mattaponi	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to saturated zone	0.35		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Emporia	7	Not Rated		Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
13B:							
Mattaponi	60	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Depth to saturated zone	0.35		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Urban land	40	Not Rated		Not Rated		Not Rated	
14A:							
Myatt	85	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.60	Flooding	0.60
				Cutbanks cave	0.10		
Roanoke	5	Not Rated		Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated		Not Rated	
Uchee	5	Not Rated		Not Rated		Not Rated	
15B:							
Nansemond	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.19	Cutbanks cave	1.00	Depth to saturated zone	0.19
				Depth to saturated zone	1.00		
Altavista	3	Not Rated		Not Rated		Not Rated	
Emporia	3	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Roanoke	3	Not Rated		Not Rated		Not Rated	
Slagle	3	Not Rated		Not Rated		Not Rated	
15C:							

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
15C:							
Nansemond	85	Somewhat limited Depth to saturated zone	0.19	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.19
Altavista	3	Not Rated		Not Rated		Not Rated	
Emporia	3	Not Rated		Not Rated		Not Rated	
Slagle	3	Not Rated		Not Rated		Not Rated	
Mattaponi	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
State	2	Not Rated		Not Rated		Not Rated	
16A:							
Roanoke	85	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 0.60 0.50	Very limited Depth to saturated zone Flooding	1.00 0.60
Altavista	3	Not Rated		Not Rated		Not Rated	
Helena	3	Not Rated		Not Rated		Not Rated	
Myatt	3	Not Rated		Not Rated		Not Rated	
Nansemond	3	Not Rated		Not Rated		Not Rated	
Slagle	3	Not Rated		Not Rated		Not Rated	
17A:							
Slagle	85	Somewhat limited Depth to saturated zone Shrink-swell	0.60 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.60
Emporia	8	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Myatt	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
17B:							

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
17B:							
Slagle	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.60	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Shrink-swell	0.50	Cutbanks cave	0.10		
Emporia	8	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Myatt	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
17C:							
Slagle	85	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.60	Depth to saturated zone	1.00	Depth to saturated zone	0.60
		Shrink-swell	0.50	Cutbanks cave	0.10		
Emporia	8	Not Rated		Not Rated		Not Rated	
Mattaponi	3	Not Rated		Not Rated		Not Rated	
Myatt	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
18A:							
State	85	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
				Depth to saturated zone	0.15		
				Cutbanks cave	0.10		
Altavista	8	Not Rated		Not Rated		Not Rated	
Myatt	3	Not Rated		Not Rated		Not Rated	
Nansemond	2	Not Rated		Not Rated		Not Rated	
Roanoke	2	Not Rated		Not Rated		Not Rated	
19B:							
Uchee	85	Not limited		Very limited		Somewhat limited	
				Cutbanks cave	1.00	Droughty	0.10
				Depth to saturated zone	0.47		
Emporia	8	Not Rated		Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Dinwiddie Area, 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
19C:							
Uchee	85	Not limited		Very limited		Somewhat limited	
				Cutbanks cave	1.00	Droughty	0.10
				Depth to saturated zone	0.47		
Emporia	8	Not Rated		Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated		Not Rated	
20:							
Udorthents	85	Not Rated		Not Rated		Not Rated	
Appling	5	Not Rated		Not Rated		Not Rated	
Cecil	5	Not Rated		Not Rated		Not Rated	
Mattaponi	4	Not Rated		Not Rated		Not Rated	
Roanoke	1	Not Rated		Not Rated		Not Rated	
DAM:							
Dam	100	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	