

Table ENG-3. - Building Site Development

Hanover 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	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1B:							
Abell	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.99	Somewhat limited Shrink-swell Slope	0.50 0.13
Appling	2	Not Rated		Not Rated		Not Rated	
Cecil	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Pacolet	1	Not Rated		Not Rated		Not Rated	
Pamunkey variant	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
2:							
Altavista	85	Very limited Flooding Depth to saturated zone	1.00 0.39	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.39
Aquults	2	Not Rated		Not Rated		Not Rated	
Bolling variant	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Forestdale	2	Not Rated		Not Rated		Not Rated	
Fork	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Myatt variant	2	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
3B:							
Appling	85	Not limited		Not limited		Somewhat limited Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
3C2:							
Appling	90	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Ashlar	2	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
4B:							
Appling	90	Not limited		Not limited		Somewhat limited Slope	0.13
Bourne	3	Not Rated		Not Rated		Not Rated	
Spotsylvania	3	Not Rated		Not Rated		Not Rated	
Abell	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
4B:							
Edgehill variant	2	Not Rated		Not Rated		Not Rated	
4C:							
Appling	90	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Edgehill variant	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
5C:							
Appling	35	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope	1.00
Ashlar	30	Somewhat limited Depth to hard bedrock Slope	0.46 0.16	Very limited Depth to hard bedrock Depth to saturated zone Slope	1.00 0.18 0.16	Very limited Slope Depth to hard bedrock	1.00 0.46
Edgehill variant	15	Not Rated		Not Rated		Not Rated	
Rock Outcrop	10	Not Rated		Not Rated		Not Rated	
Vance	10	Not Rated		Not Rated		Not Rated	
6:							
Aquults	90	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50
Colfax	3	Not Rated		Not Rated		Not Rated	
Coxville	3	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Worsham	2	Not Rated		Not Rated		Not Rated	

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Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
7:							
Atlee	90	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.71 0.39	Very limited Depth to thick cemented pan Depth to saturated zone	1.00 1.00	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.71 0.39
Bourne	2	Not Rated		Not Rated		Not Rated	
Coxville	2	Not Rated		Not Rated		Not Rated	
Dunbar	2	Not Rated		Not Rated		Not Rated	
Faceville	2	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
8:							
Augusta	85	Very limited Flooding Depth to saturated zone	1.00 0.98	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 0.98
Altavista	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Kenansville variant	2	Not Rated		Not Rated		Not Rated	
Myatt variant	2	Not Rated		Not Rated		Not Rated	
Rains	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
9:							
Bolling variant	85	Not limited		Very limited Depth to saturated zone	1.00	Not limited	
Augusta	8	Not Rated		Not Rated		Not Rated	
Altavista	7	Not Rated		Not Rated		Not Rated	

10B:

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
10B:							
Bourne	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.90
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to saturated zone	0.44
						Slope	0.13
Atlee	2	Not Rated		Not Rated		Not Rated	
Dogue	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Augusta	1	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Creedmoor	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Mayodan	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Pamunkey	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
10C:							
Bourne	85	Somewhat limited		Very limited		Very limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to thick cemented pan	0.90
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.44
Abell	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
10C:							
Dunbar	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Kempsville	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
Suffolk	2	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
11B:							
Bourne	40	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.90
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to saturated zone	0.44
						Slope	0.13
Varina	35	Not limited		Somewhat limited		Somewhat limited	
				Depth to saturated zone	0.73	Slope	0.13
Colfax	3	Not Rated		Not Rated		Not Rated	
Creedmoor	3	Not Rated		Not Rated		Not Rated	
Faceville	3	Not Rated		Not Rated		Not Rated	
Norfolk	3	Not Rated		Not Rated		Not Rated	
Orangeburg	3	Not Rated		Not Rated		Not Rated	
Spotsylvania	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Mayodan	2	Not Rated		Not Rated		Not Rated	
11C:							
Bourne	40	Somewhat limited		Very limited		Very limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to thick cemented pan	0.90
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.44

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
11C:							
Varina	35	Somewhat limited Slope	0.37	Somewhat limited Depth to saturated zone Slope	0.73 0.37	Very limited Slope	1.00
Appling	4	Not Rated		Not Rated		Not Rated	
Colfax	4	Not Rated		Not Rated		Not Rated	
Fluvaquents	4	Not Rated		Not Rated		Not Rated	
Helena	4	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Wedowee	3	Not Rated		Not Rated		Not Rated	
Worsham	3	Not Rated		Not Rated		Not Rated	
12B:							
Caroline	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Atlee	2	Not Rated		Not Rated		Not Rated	
Suffolk	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
12D2:							
Caroline	80	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Faceville	12	Not Rated		Not Rated		Not Rated	
Fluvaquents	8	Not Rated		Not Rated		Not Rated	

13B2:

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
13B2:							
Caroline	40	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Dogue	25	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Atlee	6	Not Rated		Not Rated		Not Rated	
Duplin	6	Not Rated		Not Rated		Not Rated	
Faceville	6	Not Rated		Not Rated		Not Rated	
Goldsboro	6	Not Rated		Not Rated		Not Rated	
Norfolk	6	Not Rated		Not Rated		Not Rated	
Suffolk	5	Not Rated		Not Rated		Not Rated	
13C2:							
Caroline	35	Somewhat limited Shrink-swell Slope	0.50 0.37	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
Dogue	30	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
Bourne	5	Not Rated		Not Rated		Not Rated	
Faceville	5	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Goldsboro	5	Not Rated		Not Rated		Not Rated	
Norfolk	5	Not Rated		Not Rated		Not Rated	
Orangeburg	5	Not Rated		Not Rated		Not Rated	
Suffolk	5	Not Rated		Not Rated		Not Rated	
14B2:							
Cecil	85	Not limited		Not limited		Somewhat limited Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
14B2:							
Bourne	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvanna	1	Not Rated		Not Rated		Not Rated	
Kenansville	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
14C2:							
Cecil	85	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvanna	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
15B2:							
Cecil	35	Not limited		Not limited		Somewhat limited Slope	0.13

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
15B2:							
Vance	30	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Abell	6	Not Rated		Not Rated		Not Rated	
Faceville	6	Not Rated		Not Rated		Not Rated	
Fluvanna	6	Not Rated		Not Rated		Not Rated	
Spotsylvania	6	Not Rated		Not Rated		Not Rated	
Varina	6	Not Rated		Not Rated		Not Rated	
Wedowee	5	Not Rated		Not Rated		Not Rated	
15C2:							
Cecil	35	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Vance	30	Somewhat limited Shrink-swell Slope	0.50 0.37	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
Bourne	9	Not Rated		Not Rated		Not Rated	
Fluvanna	9	Not Rated		Not Rated		Not Rated	
Spotsylvania	9	Not Rated		Not Rated		Not Rated	
Varina	8	Not Rated		Not Rated		Not Rated	
15D2:							
Cecil	40	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Vance	35	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50	Very limited Slope Shrink-swell	1.00 0.50
Ashlar	9	Not Rated		Not Rated		Not Rated	
Fluvaquents	8	Not Rated		Not Rated		Not Rated	
Varina	8	Not Rated		Not Rated		Not Rated	

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Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
16:							
Chewacla	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Altavista	2	Not Rated		Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated		Not Rated	
Bolling variant	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Wehadkee	2	Not Rated		Not Rated		Not Rated	
17B:							
Colfax	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.90
						Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Cecil	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
17C:							
Colfax	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Slope	1.00
		Slope	0.37	Slope	0.37	Depth to thick cemented pan	0.90

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
17C:							
Appling	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Helena	3	Not Rated		Not Rated		Not Rated	
Orange	3	Not Rated		Not Rated		Not Rated	
Worsham	3	Not Rated		Not Rated		Not Rated	
18:							
Coxville	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
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Atlee	2	Not Rated		Not Rated		Not Rated	
Dunbar	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Faceville	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Lenoir	2	Not Rated		Not Rated		Not Rated	
Orangeburg	2	Not Rated		Not Rated		Not Rated	
Rains	1	Not Rated		Not Rated		Not Rated	
19B:							
Creedmoor	85	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.99	Depth to saturated zone	1.00	Depth to saturated zone	0.99
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
						Slope	0.13
Bourne	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Edgehill variant	2	Not Rated		Not Rated		Not Rated	
Mayodan	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Pamunkey	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
19B:							
Pinkston	2	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
20B:							
Creedmoor variant	85	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Depth to saturated zone	1.00	Shrink-swell	1.00
		Depth to saturated zone	1.00	Shrink-swell	1.00	Depth to saturated zone	1.00
						Slope	0.13
Colfax	4	Not Rated		Not Rated		Not Rated	
Duplin	3	Not Rated		Not Rated		Not Rated	
Mayodan	3	Not Rated		Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated		Not Rated	
Worsham	2	Not Rated		Not Rated		Not Rated	
21B2:							
Cullen	85	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
						Slope	0.13
Worsham	3	Not Rated		Not Rated		Not Rated	
Abell	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
Wedowee	2	Not Rated		Not Rated		Not Rated	
21C2:							
Cullen	85	Somewhat limited		Somewhat limited		Very limited	
		Shrink-swell	0.50	Shrink-swell	0.50	Slope	1.00
		Slope	0.37	Slope	0.37	Shrink-swell	0.50
Abell	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
21C2:							
Helena	2	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
21D2:							
Cullen	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Ashlar	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
Wedowee	3	Not Rated		Not Rated		Not Rated	
22:							
Dawhoo variant	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Forestdale	8	Not Rated		Not Rated		Not Rated	
Wehadkee	7	Not Rated		Not Rated		Not Rated	
23:							
Dogue	85	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone	1.00	Somewhat limited Shrink-swell	0.50
				Shrink-swell	0.50		
Abell	2	Not Rated		Not Rated		Not Rated	
Altavista	2	Not Rated		Not Rated		Not Rated	
Atlee	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
23:							
Caroline	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Forestdale	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Masada	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Wahee	1	Not Rated		Not Rated		Not Rated	
24:							
Dunbar	90	Somewhat limited		Very limited		Somewhat limited	
		Depth to saturated zone	0.81	Depth to saturated zone	1.00	Depth to saturated zone	0.81
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Atlee	2	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Caroline	2	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
25A:							
Duplin	90	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Depth to saturated zone	1.00	Shrink-swell	0.50
				Shrink-swell	0.50		
Orangeburg	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
25A:							
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
25B:							
Duplin	90	Somewhat limited Shrink-swell	0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Bourne	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
26B:							
Edgehill variant	85	Not limited		Not limited		Somewhat limited Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Creedmoor	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
26B:							
Faceville	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Pinkston	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
27B:							
Fluvanna	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Depth to saturated zone	0.50 0.18	Somewhat limited Shrink-swell Slope	0.50 0.13
Bourne	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Georgeville	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Iredell	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
27C2:							
Fluvanna	90	Somewhat limited Shrink-swell Slope	0.50 0.37	Somewhat limited Shrink-swell Slope Depth to saturated zone	0.50 0.37 0.18	Very limited Slope Shrink-swell	1.00 0.50
Colfax	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Georgeville	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
28:							
Fluvaquents	90	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Goldsboro	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
28:							
Udifluvents	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Chewacla	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Kenansville variant	1	Not Rated		Not Rated		Not Rated	
29:							
Forestdale	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
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Worsham	3	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Dogue	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
30:							
Forestdale	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Shrink-swell	1.00	Shrink-swell	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Altavista	2	Not Rated		Not Rated		Not Rated	
Bolling variant	2	Not Rated		Not Rated		Not Rated	
Dunbar	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
30:							
Cullen	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
31:							
Fork	90	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	0.98	Depth to saturated zone	1.00	Depth to saturated zone	0.98
Altavista	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
Dogue	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Pamunkey	1	Not Rated		Not Rated		Not Rated	
Wahee	1	Not Rated		Not Rated		Not Rated	
Wehadkee	1	Not Rated		Not Rated		Not Rated	
32B:							
Georgeville	85	Not limited		Not limited		Somewhat limited Slope	0.13
Colfax	5	Not Rated		Not Rated		Not Rated	
Fluvanna	5	Not Rated		Not Rated		Not Rated	
Pacolet	5	Not Rated		Not Rated		Not Rated	
32C2:							
Georgeville	85	Somewhat limited Slope	0.96	Somewhat limited Slope	0.96	Very limited Slope	1.00
Fluvanna	5	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Pacolet	5	Not Rated		Not Rated		Not Rated	
33B:							
Goldsboro	90	Not limited		Somewhat limited Depth to saturated zone	0.95	Not limited	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
33B:							
Altavista	1	Not Rated		Not Rated		Not Rated	
Augusta	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
34B:							
Goldsboro	90	Not limited		Somewhat limited Depth to saturated zone	0.95	Not limited	
Altavista	2	Not Rated		Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated		Not Rated	
Dogue	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Lenoir	1	Not Rated		Not Rated		Not Rated	
35B:							
Helena	40	Very limited Shrink-swell Depth to saturated zone	1.00 0.44	Very limited Shrink-swell Depth to saturated zone	1.00 1.00	Very limited Shrink-swell Depth to saturated zone Slope	1.00 0.44 0.13
Colfax	35	Very limited Depth to saturated zone Depth to thick cemented pan	1.00 0.90	Very limited Depth to saturated zone Depth to thick cemented pan	1.00 1.00	Very limited Depth to saturated zone Depth to thick cemented pan Slope	1.00 0.90 0.13

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
35B:							
Abell	3	Not Rated		Not Rated		Not Rated	
Altavista	3	Not Rated		Not Rated		Not Rated	
Fluvanna	3	Not Rated		Not Rated		Not Rated	
Worsham	3	Not Rated		Not Rated		Not Rated	
Forestdale	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
Appling	1	Not Rated		Not Rated		Not Rated	
Aquults	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Wahee	1	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
36C:							
Helena	40	Very limited Shrink-swell Depth to saturated zone Slope	1.00 0.44 0.37	Very limited Shrink-swell Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Shrink-swell Slope Depth to saturated zone	1.00 1.00 0.44
Orange	35	Very limited Shrink-swell Slope	1.00 0.37	Very limited Shrink-swell Depth to saturated zone Slope	1.00 1.00 0.37	Very limited Shrink-swell Slope	1.00 1.00
Abell	5	Not Rated		Not Rated		Not Rated	
Colfax	5	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Vance	5	Not Rated		Not Rated		Not Rated	
Worsham	5	Not Rated		Not Rated		Not Rated	

37:

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
37:							
Hydraquents	95	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Shrink-swell	0.50	Shrink-swell	1.00
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
38C:							
Iredell	40	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Shrink-swell	1.00
		Depth to saturated zone	0.99	Slope	0.37	Slope	1.00
		Slope	0.37			Depth to saturated zone	0.99
Orange	30	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00
		Slope	0.37	Depth to saturated zone	1.00	Slope	1.00
				Slope	0.37		
Fluvaquents	4	Not Rated		Not Rated		Not Rated	
Helena	4	Not Rated		Not Rated		Not Rated	
Worsham	4	Not Rated		Not Rated		Not Rated	
Abell	3	Not Rated		Not Rated		Not Rated	
Cecil	3	Not Rated		Not Rated		Not Rated	
Colfax	3	Not Rated		Not Rated		Not Rated	
Cullen	3	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
39B:							
Kempsville	85	Not limited		Somewhat limited Depth to saturated zone	0.18	Somewhat limited Slope	0.13
Bourne	2	Not Rated		Not Rated		Not Rated	
Faceville	2	Not Rated		Not Rated		Not Rated	
Kenansville	2	Not Rated		Not Rated		Not Rated	
Orangeburg	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
39B:							
Suffolk	2	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
39C:							
Kempsville	90	Somewhat limited Slope	0.37	Somewhat limited Slope Depth to saturated zone	0.37 0.18	Very limited Slope	1.00
Bourne	2	Not Rated		Not Rated		Not Rated	
Faceville	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
40A:							
Kempsville	55	Not limited		Somewhat limited Depth to saturated zone	0.18	Not limited	
Bourne	30	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.90 0.44	Very limited Depth to thick cemented pan Depth to saturated zone	1.00 1.00	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.90 0.44
Dunbar	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Kenansville	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
40A:							
Orangeburg	2	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
40B:							
Kempsville	60	Not limited		Somewhat limited Depth to saturated zone	0.18	Somewhat limited Slope	0.13
Bourne	30	Somewhat limited Depth to thick cemented pan Depth to saturated zone	0.90 0.44	Very limited Depth to thick cemented pan Depth to saturated zone	1.00 1.00	Somewhat limited Depth to thick cemented pan Depth to saturated zone Slope	0.90 0.44 0.13
Dunbar	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kenansville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
41:							
Kenansville	90	Not limited		Not limited		Somewhat limited Slope	0.13
Dogue	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Kempsville	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
41: Suffolk	1	Not Rated		Not Rated		Not Rated	
42: Kenansville variant	85	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding	1.00
Altavista	3	Not Rated		Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated		Not Rated	
Wehadkee	3	Not Rated		Not Rated		Not Rated	
43: Lenoir	85	Somewhat limited Depth to saturated zone Shrink-swell	0.81 0.50	Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Shrink-swell	0.81 0.50
Coxville	4	Not Rated		Not Rated		Not Rated	
Dogue	4	Not Rated		Not Rated		Not Rated	
Dunbar	4	Not Rated		Not Rated		Not Rated	
Duplin	3	Not Rated		Not Rated		Not Rated	
44B: Masada	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Altavista	3	Not Rated		Not Rated		Not Rated	
Appling	3	Not Rated		Not Rated		Not Rated	
Cecil	3	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Turbeville	3	Not Rated		Not Rated		Not Rated	
45B: Mayodan	35	Not limited		Not limited		Somewhat limited Slope	0.13

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
45B:							
Creedmoor	30	Somewhat limited		Very limited		Very limited	
		Depth to saturated zone	0.99	Depth to saturated zone	1.00	Depth to saturated zone	0.99
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
						Slope	0.13
Bourne	7	Not Rated		Not Rated		Not Rated	
Edgehill variant	7	Not Rated		Not Rated		Not Rated	
Fluvaquents	7	Not Rated		Not Rated		Not Rated	
Helena	7	Not Rated		Not Rated		Not Rated	
Pinkston	7	Not Rated		Not Rated		Not Rated	
46:							
Myatt variant	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Altavista	3	Not Rated		Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated		Not Rated	
Chewacla	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Kenansville variant	2	Not Rated		Not Rated		Not Rated	
Wehadkee	2	Not Rated		Not Rated		Not Rated	
47A:							
Norfolk	85	Not limited		Somewhat limited		Not limited	
				Depth to saturated zone	0.18		
Dogue	2	Not Rated		Not Rated		Not Rated	
Dunbar	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Suffolk	2	Not Rated		Not Rated		Not Rated	
Atlee	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
47A:							
Coxville	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
47B:							
Norfolk	80	Not limited		Somewhat limited Depth to saturated zone	0.18	Somewhat limited Slope	0.13
Abell	1	Not Rated		Not Rated		Not Rated	
Atlee	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Edgehill variant	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
Pacolet	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
47B:							
Wedowee	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
48B:							
Orange	40	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00	Very limited Shrink-swell	1.00
				Depth to saturated zone	1.00	Slope	0.13
Iredell	30	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Shrink-swell	1.00
		Depth to saturated zone	0.99			Depth to saturated zone	0.99
						Slope	0.13
Abell	3	Not Rated		Not Rated		Not Rated	
Appling	3	Not Rated		Not Rated		Not Rated	
Bourne	3	Not Rated		Not Rated		Not Rated	
Colfax	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
Wedowee	3	Not Rated		Not Rated		Not Rated	
Forestdale	2	Not Rated		Not Rated		Not Rated	
Helena	2	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
49B:							
Orangeburg	90	Not limited		Not limited		Somewhat limited Slope	0.13
Kenansville	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
49B:							
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
50A:							
Orangeburg	55	Not limited		Not limited		Not limited	
Faceville	35	Not limited		Not limited		Not limited	
Atlee	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Duplin	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Suffolk	1	Not Rated		Not Rated		Not Rated	
50B:							
Orangeburg	55	Not limited		Not limited		Somewhat limited Slope	0.13
Faceville	35	Not limited		Not limited		Somewhat limited Slope	0.13
Appling	1	Not Rated		Not Rated		Not Rated	
Atlee	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Coxville	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
50B:							
Creedmoor	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Dunbar	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Mayodan	1	Not Rated		Not Rated		Not Rated	
50C:							
Orangeburg	40	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Faceville	35	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Bourne	5	Not Rated		Not Rated		Not Rated	
Caroline	4	Not Rated		Not Rated		Not Rated	
Fluvaquents	4	Not Rated		Not Rated		Not Rated	
Goldsboro	4	Not Rated		Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated		Not Rated	
Norfolk	4	Not Rated		Not Rated		Not Rated	
51B2:							
Pacolet	85	Not limited		Not limited		Somewhat limited Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Bourne	2	Not Rated		Not Rated		Not Rated	
Cullen	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
51C2:							

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
51C2:							
Pacolet	85	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Vance	2	Not Rated		Not Rated		Not Rated	
Worsham	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Appling	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Cullen	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Iredell	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
51D2:							
Pacolet	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Ashlar	5	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Spotsylvania	5	Not Rated		Not Rated		Not Rated	
52C3:							
Pacolet	85	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Abell	3	Not Rated		Not Rated		Not Rated	
Colfax	3	Not Rated		Not Rated		Not Rated	
Cullen	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
52C3:							
Helena	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
53B:							
Pacolet	45	Not limited		Not limited		Somewhat limited Slope	0.13
Cecil	40	Not limited		Not limited		Somewhat limited Slope	0.13
Abell	3	Not Rated		Not Rated		Not Rated	
Cullen	3	Not Rated		Not Rated		Not Rated	
Iredell	3	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
53C2:							
Pacolet	55	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Cecil	35	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Cullen	4	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Spotsylvania	3	Not Rated		Not Rated		Not Rated	
54B:							
Pamunkey	90	Not limited		Not limited		Somewhat limited Slope	0.13
Altavista	3	Not Rated		Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated		Not Rated	
Kenansville variant	2	Not Rated		Not Rated		Not Rated	
Tarboro	2	Not Rated		Not Rated		Not Rated	
55A:							
Pamunkey	85	Not limited		Not limited		Not limited	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
55A:							
Altavista	4	Not Rated		Not Rated		Not Rated	
Augusta	4	Not Rated		Not Rated		Not Rated	
Goldsboro	4	Not Rated		Not Rated		Not Rated	
Wahee	3	Not Rated		Not Rated		Not Rated	
55B:							
Pamunkey	85	Not limited		Not limited		Somewhat limited Slope	0.13
Altavista	3	Not Rated		Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Wahee	3	Not Rated		Not Rated		Not Rated	
56:							
Pamunkey	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
Altavista	4	Not Rated		Not Rated		Not Rated	
Augusta	4	Not Rated		Not Rated		Not Rated	
Chewacla	4	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
57B:							
Pamunkey variant	85	Not limited		Not limited		Not limited	
Altavista	3	Not Rated		Not Rated		Not Rated	
Chewacla	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Tarboro	2	Not Rated		Not Rated		Not Rated	
Udifluvents	2	Not Rated		Not Rated		Not Rated	
Wahee	2	Not Rated		Not Rated		Not Rated	
58C:							

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
58C:							
Pinkston	35	Somewhat limited		Very limited		Very limited	
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Slope	1.00
		Slope	0.37	Slope	0.37	Depth to hard bedrock	0.46
Mayodan	30	Somewhat limited		Somewhat limited		Very limited	
		Slope	0.37	Slope	0.37	Slope	1.00
Colfax	9	Not Rated		Not Rated		Not Rated	
Creedmoor	9	Not Rated		Not Rated		Not Rated	
Helena	9	Not Rated		Not Rated		Not Rated	
Edgehill variant	8	Not Rated		Not Rated		Not Rated	
58D:							
Pinkston	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Mayodan	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Chewacla	5	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Udifluents	5	Not Rated		Not Rated		Not Rated	
58E:							
Pinkston	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to hard bedrock	0.46	Depth to hard bedrock	1.00	Depth to hard bedrock	0.46
Mayodan	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
Chewacla	7	Not Rated		Not Rated		Not Rated	
Fluvaquents	7	Not Rated		Not Rated		Not Rated	
Udifluents	6	Not Rated		Not Rated		Not Rated	
59:							
Pits, borrow	100	Not Rated		Not Rated		Not Rated	
60:							
Pits, quarry	100	Not Rated		Not Rated		Not Rated	
61:							

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
61:							
Rains	85	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Dunbar	4	Not Rated		Not Rated		Not Rated	
Duplin	4	Not Rated		Not Rated		Not Rated	
Goldsboro	4	Not Rated		Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated		Not Rated	
62B:							
Spotsylvania	35	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Bourne	30	Somewhat limited Depth to thick cemented pan	0.90	Very limited Depth to thick cemented pan	1.00	Somewhat limited Depth to thick cemented pan	0.90
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to saturated zone Slope	0.44 0.13
Abell	4	Not Rated		Not Rated		Not Rated	
Appling	4	Not Rated		Not Rated		Not Rated	
Cecil	3	Not Rated		Not Rated		Not Rated	
Faceville	3	Not Rated		Not Rated		Not Rated	
Masada	3	Not Rated		Not Rated		Not Rated	
Norfolk	3	Not Rated		Not Rated		Not Rated	
Orangeburg	3	Not Rated		Not Rated		Not Rated	
Pacolet	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
Varina	3	Not Rated		Not Rated		Not Rated	
Wedowee	3	Not Rated		Not Rated		Not Rated	
62C:							
Spotsylvania	35	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Very limited Slope	1.00
		Slope	0.37	Slope	0.37	Shrink-swell	0.50

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
62C:							
Bourne	30	Somewhat limited		Very limited		Very limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Slope	1.00
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to thick cemented pan	0.90
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.44
Abell	6	Not Rated		Not Rated		Not Rated	
Appling	6	Not Rated		Not Rated		Not Rated	
Cecil	6	Not Rated		Not Rated		Not Rated	
Pacolet	6	Not Rated		Not Rated		Not Rated	
Vance	6	Not Rated		Not Rated		Not Rated	
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
63A:							
Suffolk	90	Not limited		Not limited		Not limited	
Faceville	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kempsville	1	Not Rated		Not Rated		Not Rated	
Kenansville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
63B:							
Suffolk	90	Not limited		Not limited		Somewhat limited Slope	0.13
Kempsville	2	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Caroline	1	Not Rated		Not Rated		Not Rated	
Dogue	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
63B:							
Faceville	1	Not Rated		Not Rated		Not Rated	
Goldsboro	1	Not Rated		Not Rated		Not Rated	
Kenansville	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orangeburg	1	Not Rated		Not Rated		Not Rated	
63C:							
Suffolk	90	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Bourne	2	Not Rated		Not Rated		Not Rated	
Kempsville	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Orangeburg	2	Not Rated		Not Rated		Not Rated	
Faceville	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
64B:							
Tarboro	90	Not limited		Not limited		Somewhat limited Slope	0.13
Altavista	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Forestdale	2	Not Rated		Not Rated		Not Rated	
Pamunkey	1	Not Rated		Not Rated		Not Rated	
Wehadkee	1	Not Rated		Not Rated		Not Rated	
65B:							
Turbeville	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Altavista	4	Not Rated		Not Rated		Not Rated	
Faceville	4	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
65B:							
Masada	4	Not Rated		Not Rated		Not Rated	
Norfolk	3	Not Rated		Not Rated		Not Rated	
66C:							
Udalfs	55	Somewhat limited Slope	0.37	Somewhat limited Slope Depth to hard bedrock Depth to soft bedrock	0.37 0.13 <0.01	Very limited Slope	1.00
Ochrepts	35	Somewhat limited Depth to soft bedrock Slope	1.00 0.37	Very limited Depth to soft bedrock Depth to hard bedrock Slope	1.00 0.99 0.37	Very limited Depth to soft bedrock Slope	1.00 1.00
Abell	3	Not Rated		Not Rated		Not Rated	
Appling	3	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Wedowee	2	Not Rated		Not Rated		Not Rated	
66D:							
Udalfs	55	Very limited Slope	1.00	Very limited Slope Depth to hard bedrock Depth to soft bedrock	1.00 0.13 <0.01	Very limited Slope	1.00
Ochrepts	35	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to soft bedrock	1.00 1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
66F:							

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
66F:							
Udalfs	55	Very limited Slope	1.00	Very limited Slope Depth to hard bedrock Depth to soft bedrock	1.00 0.13 <0.01	Very limited Slope	1.00
Ochrepts	35	Very limited Slope Depth to soft bedrock	1.00 1.00	Very limited Slope Depth to soft bedrock Depth to hard bedrock	1.00 1.00 0.99	Very limited Slope Depth to soft bedrock	1.00 1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Pacolet	2	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
67:							
Udifluvents	100	Very limited Flooding	1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding	1.00
68:							
Udorthefts	100	Not Rated		Not Rated		Not Rated	
69C:							
Udults	95	Somewhat limited Slope	0.37	Very limited Slope Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.37	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
69D:							
Udults	95	Very limited Slope	1.00	Very limited Slope Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
69D:							
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
70B:							
Udults	50	Not limited		Very limited Depth to saturated zone Shrink-swell	1.00 0.50	Somewhat limited Slope	0.13
Ochrepts	40	Not limited		Very limited Depth to saturated zone	1.00	Somewhat limited Slope	0.13
Fluvaquents	5	Not Rated		Not Rated		Not Rated	
Goldsboro	5	Not Rated		Not Rated		Not Rated	
70C:							
Udults	55	Somewhat limited Slope	0.37	Very limited Depth to saturated zone Shrink-swell Slope	1.00 0.50 0.37	Very limited Slope	1.00
Ochrepts	40	Somewhat limited Slope	0.37	Very limited Depth to saturated zone Slope	1.00 0.37	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
70D:							
Udults	55	Very limited Slope	1.00	Very limited Slope Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Slope	1.00
Ochrepts	40	Very limited Slope	1.00	Very limited Slope Depth to saturated zone	1.00 1.00	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
70E:							

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
70E:							
Udults	55	Very limited Slope	1.00	Very limited Slope Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Slope	1.00
Ochrepts	40	Very limited Slope	1.00	Very limited Slope Depth to saturated zone	1.00 1.00	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
70F:							
Udults	55	Very limited Slope	1.00	Very limited Slope Depth to saturated zone Shrink-swell	1.00 1.00 0.50	Very limited Slope	1.00
Ochrepts	40	Very limited Slope	1.00	Very limited Slope Depth to saturated zone	1.00 1.00	Very limited Slope	1.00
Goldsboro	3	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
71B:							
Vance	85	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell	0.50	Somewhat limited Shrink-swell Slope	0.50 0.13
Worsham	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Cullen	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
71B:							
Iredell	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
Pacolet	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
71C2:							
Vance	85	Somewhat limited Shrink-swell Slope	0.50 0.37	Somewhat limited Shrink-swell Slope	0.50 0.37	Very limited Slope Shrink-swell	1.00 0.50
Worsham	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Cullen	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Iredell	1	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	
Pacolet	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Wedowee	1	Not Rated		Not Rated		Not Rated	
72B:							
Varina	45	Not limited		Somewhat limited Depth to saturated zone	0.73	Somewhat limited Slope	0.13

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
72B:							
Bourne	35	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.90	Depth to thick cemented pan	1.00	Depth to thick cemented pan	0.90
		Depth to saturated zone	0.44	Depth to saturated zone	1.00	Depth to saturated zone	0.44
						Slope	0.13
Abell	2	Not Rated		Not Rated		Not Rated	
Appling	2	Not Rated		Not Rated		Not Rated	
Cecil	2	Not Rated		Not Rated		Not Rated	
Duplin	2	Not Rated		Not Rated		Not Rated	
Edgehill variant	2	Not Rated		Not Rated		Not Rated	
Faceville	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Orangeburg	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
Norfolk	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
73:							
Wahee	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Flooding	1.00	Flooding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Abell	2	Not Rated		Not Rated		Not Rated	
Altavista	2	Not Rated		Not Rated		Not Rated	
Dogue	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Forestdale	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Fork	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
74B2:							
Wedowee	85	Not limited		Not limited		Somewhat limited Slope	0.13
Iredell	2	Not Rated		Not Rated		Not Rated	
Norfolk	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Spotsylvania	1	Not Rated		Not Rated		Not Rated	
Turbeville	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
74C2:							
Wedowee	85	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Worsham	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Bourne	1	Not Rated		Not Rated		Not Rated	
Cecil	1	Not Rated		Not Rated		Not Rated	
Chewacla	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Iredell	1	Not Rated		Not Rated		Not Rated	
Orange	1	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
74C2:							
Turbeville	1	Not Rated		Not Rated		Not Rated	
Vance	1	Not Rated		Not Rated		Not Rated	
Varina	1	Not Rated		Not Rated		Not Rated	
74D2:							
Wedowee	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Vance	3	Not Rated		Not Rated		Not Rated	
Worsham	3	Not Rated		Not Rated		Not Rated	
Abell	2	Not Rated		Not Rated		Not Rated	
Ashlar	2	Not Rated		Not Rated		Not Rated	
Chewacla	2	Not Rated		Not Rated		Not Rated	
75C3:							
Wedowee	85	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Slope	1.00
Abell	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Fluvaquents	2	Not Rated		Not Rated		Not Rated	
Iredell	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
Spotsylvania	2	Not Rated		Not Rated		Not Rated	
Vance	2	Not Rated		Not Rated		Not Rated	
Worsham	1	Not Rated		Not Rated		Not Rated	
75D3:							
Wedowee	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Abell	3	Not Rated		Not Rated		Not Rated	
Ashlar	3	Not Rated		Not Rated		Not Rated	
Chewacla	3	Not Rated		Not Rated		Not Rated	

Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
75D3:							
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Worsham	3	Not Rated		Not Rated		Not Rated	
76D:							
Wedowee	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
Ashlar	30	Very limited Slope Depth to hard bedrock	1.00 0.46	Very limited Slope Depth to hard bedrock Depth to saturated zone	1.00 1.00 0.18	Very limited Slope Depth to hard bedrock	1.00 0.46
Edgehill variant	12	Not Rated		Not Rated		Not Rated	
Fluvaquents	12	Not Rated		Not Rated		Not Rated	
Vance	11	Not Rated		Not Rated		Not Rated	
77:							
Wehadkee	85	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00	Very limited Flooding Depth to saturated zone	1.00 1.00
Forestdale	2	Not Rated		Not Rated		Not Rated	
Goldsboro	2	Not Rated		Not Rated		Not Rated	
Worsham	2	Not Rated		Not Rated		Not Rated	
Abell	1	Not Rated		Not Rated		Not Rated	
Altavista	1	Not Rated		Not Rated		Not Rated	
Augusta	1	Not Rated		Not Rated		Not Rated	
Chewacla	1	Not Rated		Not Rated		Not Rated	
Colfax	1	Not Rated		Not Rated		Not Rated	
Fluvaquents	1	Not Rated		Not Rated		Not Rated	
Helena	1	Not Rated		Not Rated		Not Rated	
Pamunkey	1	Not Rated		Not Rated		Not Rated	
Wahee	1	Not Rated		Not Rated		Not Rated	

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Table ENG-3. - Building Site Development - Continued

Hanover County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Dwellings without Basements		Dwellings with Basements		Small Commercial Buildings	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
78:							
Worsham	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
		Shrink-swell	0.50	Shrink-swell	0.50	Shrink-swell	0.50
Fluvaquents	3	Not Rated		Not Rated		Not Rated	
Helena	3	Not Rated		Not Rated		Not Rated	
Iredell	3	Not Rated		Not Rated		Not Rated	
Abell	2	Not Rated		Not Rated		Not Rated	
Colfax	2	Not Rated		Not Rated		Not Rated	
Orange	2	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	