

Table ENG-1. - Construction Materials

James City and York Counties and the City of Williamsburg, 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 columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel.

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1:					
Altavista	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.09
Augusta	5	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Seabrook	5	Not Rated		Not Rated	
2:					
Augusta	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.09
Altavista	4	Not Rated		Not Rated	
Dragston	4	Not Rated		Not Rated	
Munden	3	Not Rated		Not Rated	
Nimmo	3	Not Rated		Not Rated	
Seabrook	3	Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated	
3:					
Axis	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.07
		Thickest layer	0.00	Bottom layer	0.09
Bohicket	6	Not Rated		Not Rated	
Johnston	6	Not Rated		Not Rated	
Levy	6	Not Rated		Not Rated	
Beaches	2	Not Rated		Not Rated	
4:					
Beaches	70	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Axis	15	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
4:					
Bohicket	15	Not Rated		Not Rated	
5:					
Bethera	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Izagora	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	
Yemassee	5	Not Rated		Not Rated	
6:					
Bohicket	90	Not Rated		Not Rated	
Axis	4	Not Rated		Not Rated	
Johnston	3	Not Rated		Not Rated	
Levy	3	Not Rated		Not Rated	
7:					
Bojac	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.09
		Thickest layer	0.00	Bottom layer	0.15
Altavista	5	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
Seabrook	5	Not Rated		Not Rated	
8B:					
Caroline	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Emporia	5	Not Rated		Not Rated	
Sagle	5	Not Rated		Not Rated	
Uchee	5	Not Rated		Not Rated	
9:					
Chickahominy	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
9:					
Augusta	4	Not Rated		Not Rated	
Dogue	4	Not Rated		Not Rated	
Newflat	4	Not Rated		Not Rated	
Peawick	4	Not Rated		Not Rated	
Tetotum	4	Not Rated		Not Rated	
10B:					
Craven	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Caroline	4	Not Rated		Not Rated	
Emporia	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
10C:					
Craven	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Caroline	4	Not Rated		Not Rated	
Emporia	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
11B:					
Craven	35	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Uchee	35	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.08
Caroline	6	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
11B:					
Emporia	6	Not Rated		Not Rated	
Kempsville	6	Not Rated		Not Rated	
Kenansville	6	Not Rated		Not Rated	
Slagle	6	Not Rated		Not Rated	
11C:					
Craven	35	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.04
Uchee	35	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.08
Caroline	8	Not Rated		Not Rated	
Slagle	8	Not Rated		Not Rated	
Emporia	7	Not Rated		Not Rated	
Kempsville	7	Not Rated		Not Rated	
12:					
Dogue	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Altavista	3	Not Rated		Not Rated	
Chickahominy	3	Not Rated		Not Rated	
Newflat	3	Not Rated		Not Rated	
Pamunkey	3	Not Rated		Not Rated	
Peawick	3	Not Rated		Not Rated	
13:					
Dragston	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	0.39
Altavista	3	Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated	
Nimmo	3	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
13:					
Seabrook	3	Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated	
14B:					
Emporia	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Caroline	4	Not Rated		Not Rated	
Izagora	4	Not Rated		Not Rated	
Kempsville	3	Not Rated		Not Rated	
Kenansville	3	Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated	
Uchee	3	Not Rated		Not Rated	
14C:					
Emporia	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Caroline	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Kenansville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
15D:					
Emporia	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Caroline	5	Not Rated		Not Rated	
Craven	5	Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	
Uchee	5	Not Rated		Not Rated	

15E:

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
15E:					
Emporia	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Slagle	20	Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated	
15F:					
Emporia	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Slagle	20	Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated	
16:					
Izagora	85	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.10
Emporia	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Yemassee	4	Not Rated		Not Rated	
Bethera	3	Not Rated		Not Rated	
17:					
Johnston	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.01
Axis	5	Not Rated		Not Rated	
Bohicket	5	Not Rated		Not Rated	
Levy	5	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
Tomotley	5	Not Rated		Not Rated	
18B:					
Kempsville	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.10

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
18B:					
Emporia	5	Not Rated		Not Rated	
Kenansville	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	
Suffolk	5	Not Rated		Not Rated	
19B:					
Kempsville	50	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.10
Emporia	30	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.03
Caroline	4	Not Rated		Not Rated	
Kenansville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
20B:					
Kenansville	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.45
		Thickest layer	0.00	Bottom layer	0.90
Kempsville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	4	Not Rated		Not Rated	
Uchee	3	Not Rated		Not Rated	
21:					
Levy	85	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Axis	5	Not Rated		Not Rated	
Bohicket	5	Not Rated		Not Rated	
Johnston	5	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
22:					
Munden	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	0.10
Bojac	4	Not Rated		Not Rated	
Altavista	3	Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated	
23:					
Newflat	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Chickahominy	7	Not Rated		Not Rated	
Peawick	7	Not Rated		Not Rated	
Tetotum	6	Not Rated		Not Rated	
24:					
Nimmo	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	0.18
Altavista	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
Seabrook	5	Not Rated		Not Rated	
Tomotley	5	Not Rated		Not Rated	
25B:					
Norfolk	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Emporia	5	Not Rated		Not Rated	
Kempsville	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	
26B:					
Pamunkey	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.08
		Thickest layer	0.00	Bottom layer	0.22

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
26B:					
Altavista	4	Not Rated		Not Rated	
Bojac	4	Not Rated		Not Rated	
Dogue	4	Not Rated		Not Rated	
Tetotum	3	Not Rated		Not Rated	
27:					
Peawick	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Chickahominy	5	Not Rated		Not Rated	
Dogue	5	Not Rated		Not Rated	
Newflat	5	Not Rated		Not Rated	
Pamunkey	5	Not Rated		Not Rated	
28:					
Seabrook	80	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.20
		Thickest layer	0.00	Thickest layer	0.20
Munden	4	Not Rated		Not Rated	
Nimmo	4	Not Rated		Not Rated	
Altavista	3	Not Rated		Not Rated	
Bojac	3	Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated	
29A:					
Slagle	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Bethera	3	Not Rated		Not Rated	
Emporia	3	Not Rated		Not Rated	
Izagora	3	Not Rated		Not Rated	
Kempsville	3	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
29A:					
Peawick	3	Not Rated		Not Rated	
Yemassee	3	Not Rated		Not Rated	
Uchee	2	Not Rated		Not Rated	
29B:					
Slagle	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
Emporia	4	Not Rated		Not Rated	
Izagora	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Peawick	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
30:					
State	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.11
Altavista	3	Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated	
Dogue	3	Not Rated		Not Rated	
Pamunkey	3	Not Rated		Not Rated	
Tetotum	3	Not Rated		Not Rated	
31B:					
Suffolk	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.10
Emporia	5	Not Rated		Not Rated	
Kempsville	5	Not Rated		Not Rated	
Kenansville	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	

32:

Table ENG-1. - Construction Materials - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
32:					
Tetotum	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.15
Augusta	3	Not Rated		Not Rated	
Chickahominy	3	Not Rated		Not Rated	
Newflat	3	Not Rated		Not Rated	
Pamunkey	3	Not Rated		Not Rated	
State	3	Not Rated		Not Rated	
33:					
Tomotley	80	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.10
Altavista	3	Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated	
Munden	3	Not Rated		Not Rated	
Nimmo	3	Not Rated		Not Rated	
Seabrook	3	Not Rated		Not Rated	
Bojac	2	Not Rated		Not Rated	
34B:					
Uchee	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.08
Emporia	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated	
34C:					
Uchee	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.04
		Thickest layer	0.00	Bottom layer	0.08

Table ENG-1. - Construction Materials - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
34C:					
Emporia	4	Not Rated		Not Rated	
Kempsville	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	3	Not Rated		Not Rated	
35:					
Udorthents	75	Not Rated		Not Rated	
Pamunkey	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
Bethera	3	Not Rated		Not Rated	
Caroline	3	Not Rated		Not Rated	
Emporia	3	Not Rated		Not Rated	
36:					
Udorthents	50	Not Rated		Not Rated	
Dumps	25	Not Rated		Not Rated	
Igazora	4	Not Rated		Not Rated	
Slagle	4	Not Rated		Not Rated	
Suffolk	4	Not Rated		Not Rated	
Uchee	4	Not Rated		Not Rated	
Bethera	3	Not Rated		Not Rated	
Caroline	3	Not Rated		Not Rated	
Kempsville	3	Not Rated		Not Rated	
37:					
Urban land	85	Not Rated		Not Rated	
Emporia	8	Not Rated		Not Rated	
Slagle	7	Not Rated		Not Rated	

38:

Table ENG-1. - Construction Materials - Continued

James City and York Counties and the City of Williamsburg, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Gravel		Potential Source of Sand	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
38:					
Yemassee	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.03
		Thickest layer	0.00	Bottom layer	0.10
Bethera	5	Not Rated		Not Rated	
Izagora	5	Not Rated		Not Rated	
Slagle	5	Not Rated		Not Rated	
W:					
Water	100	Not Rated		Not Rated	