

Table ENG-1. - Construction Materials

City of Virginia Beach, 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:					
Acredale	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Hyde	3	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
Chapanoke	2	Not Rated		Not Rated	
Nawney	2	Not Rated		Not Rated	
Nimmo	2	Not Rated		Not Rated	
Portsmouth	2	Not Rated		Not Rated	
Tomotley	2	Not Rated		Not Rated	
2:					
Acredale	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Urban land	35	Not Rated		Not Rated	
Tomotley	8	Not Rated		Not Rated	
Chapanoke	6	Not Rated		Not Rated	
Udorthents	6	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
3:					
Augusta	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.18
Chapanoke	3	Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated	
Yeopim	3	Not Rated		Not Rated	
Acredale	2	Not Rated		Not Rated	
Tetotum	2	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
3:					
Tomotley	2	Not Rated		Not Rated	
4:					
Augusta	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.18
Urban land	35	Not Rated		Not Rated	
Udorthents	3	Not Rated		Not Rated	
Acredale	2	Not Rated		Not Rated	
Chapanoke	2	Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated	
Tetotum	2	Not Rated		Not Rated	
Tomotley	2	Not Rated		Not Rated	
Yeopim	2	Not Rated		Not Rated	
5:					
Backbay	80	Poor		Poor	
		Bottom layer	0.00	Bottom layer	0.00
		Thickest layer	0.00	Thickest layer	0.00
		No organic matter limitation	>0.99	No organic matter limitation	>0.99
Duckston	4	Not Rated		Not Rated	
Nawney	4	Not Rated		Not Rated	
Nimmo	4	Not Rated		Not Rated	
Pocaty	4	Not Rated		Not Rated	
Tomotley	4	Not Rated		Not Rated	
6:					
Beaches	85	Not Rated		Not Rated	
Corolla	8	Not Rated		Not Rated	
Newhan	7	Not Rated		Not Rated	
7:					
Bojac	85	Poor		Good	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00		

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
7:					
Munden	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
8:					
Chapanoke	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.10
Acredale	5	Not Rated		Not Rated	
Yeopim	5	Not Rated		Not Rated	
Augusta	3	Not Rated		Not Rated	
Tetotum	2	Not Rated		Not Rated	
9:					
Chapanoke	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.10
Urban land	35	Not Rated		Not Rated	
Acredale	5	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
Yeopim	5	Not Rated		Not Rated	
10:					
Corolla	80	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Duckston	10	Not Rated		Not Rated	
Newhan	10	Not Rated		Not Rated	
11:					
Corolla	45	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
11:					
Duckston	35	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Newhan	10	Not Rated		Not Rated	
Psamments	10	Not Rated		Not Rated	
12:					
Dorovan	75	Not Rated		Not Rated	
Pocaty	15	Not Rated		Not Rated	
Nawney	10	Not Rated		Not Rated	
13:					
Dragston	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.09
		Thickest layer	0.00	Bottom layer	0.10
Augusta	3	Not Rated		Not Rated	
Munden	3	Not Rated		Not Rated	
Nimmo	3	Not Rated		Not Rated	
Tetotum	3	Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated	
14:					
Dragston	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.09
		Thickest layer	0.00	Bottom layer	0.10
Urban land	35	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
Tetotum	3	Not Rated		Not Rated	
Tomotley	2	Not Rated		Not Rated	

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Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
15:					
Duckston	80	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Backbay	10	Not Rated		Not Rated	
Corolla	10	Not Rated		Not Rated	
16E:					
Frapp	85	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Lakehurst variant	5	Not Rated		Not Rated	
Newhan	5	Not Rated		Not Rated	
Pamlico	5	Not Rated		Not Rated	
17:					
Hyde	85	Poor		Good	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00		
Acredale	5	Not Rated		Not Rated	
Tomotley	5	Not Rated		Not Rated	
Portsmouth	3	Not Rated		Not Rated	
Nimmo	2	Not Rated		Not Rated	
18:					
Lakehurst variant	85	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Frapp	5	Not Rated		Not Rated	
Newhan	5	Not Rated		Not Rated	
Pamlico	5	Not Rated		Not Rated	
19:					
Munden	85	Poor		Good	
		Bottom layer	0.00	Thickest layer	0.09
		Thickest layer	0.00	Bottom layer	>0.99
Augusta	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
19:					
Bojac	3	Not Rated		Not Rated	
Dragston	3	Not Rated		Not Rated	
State	3	Not Rated		Not Rated	
Tetotum	3	Not Rated		Not Rated	
20:					
Munden	40	Poor		Good	
		Bottom layer	0.00	Thickest layer	0.09
		Thickest layer	0.00	Bottom layer	>0.99
Urban land	35	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
Bojac	4	Not Rated		Not Rated	
Dragston	4	Not Rated		Not Rated	
State	4	Not Rated		Not Rated	
Tetotum	4	Not Rated		Not Rated	
Udorthents	4	Not Rated		Not Rated	
21:					
Nawney	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.15
		No organic matter limitation	>0.99	No organic matter limitation	>0.99
Nimmo	5	Not Rated		Not Rated	
Portsmouth	5	Not Rated		Not Rated	
Tomotley	5	Not Rated		Not Rated	
Backbay	3	Not Rated		Not Rated	
Rappahannock	3	Not Rated		Not Rated	
Acredale	2	Not Rated		Not Rated	
Dorovan	2	Not Rated		Not Rated	
22E:					

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
22E:					
Newhan	80	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Duckston	8	Not Rated		Not Rated	
Corolla	7	Not Rated		Not Rated	
Beaches	5	Not Rated		Not Rated	
23C:					
Newhan	55	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Corolla	35	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Duckston	5	Not Rated		Not Rated	
Psamments	5	Not Rated		Not Rated	
24:					
Nimmo	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	>0.99
Dragston	3	Not Rated		Not Rated	
Portsmouth	3	Not Rated		Not Rated	
Tomotley	3	Not Rated		Not Rated	
Acredale	2	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
Nawney	2	Not Rated		Not Rated	
25:					
Nimmo	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	>0.99
Urban land	35	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Portsmouth	5	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
25:					
Tomotley	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
Acredale	3	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
26:					
Pamlico	85	Not Rated		Not Rated	
Lakehurst variant	8	Not Rated		Not Rated	
Frripp	7	Not Rated		Not Rated	
27:					
Pamlico	55	Not Rated		Not Rated	
Lakehurst variant	35	Poor		Good	
		Bottom layer	0.00		
		Thickest layer	0.00		
Frripp	10	Not Rated		Not Rated	
28:					
Pocaty	85	Not Rated		Not Rated	
Dorovan	5	Not Rated		Not Rated	
Nawney	5	Not Rated		Not Rated	
Backbay	3	Not Rated		Not Rated	
Udorthents	2	Not Rated		Not Rated	
29:					
Portsmouth	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.15
Tomotley	5	Not Rated		Not Rated	
Acredale	3	Not Rated		Not Rated	
Hyde	3	Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated	
Nimmo	2	Not Rated		Not Rated	
30:					

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
30:					
Psammments	80	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.99
		Thickest layer	0.00	Thickest layer	0.99
Corolla	4	Not Rated		Not Rated	
Duckston	4	Not Rated		Not Rated	
Fripp	4	Not Rated		Not Rated	
Lakehurst variant	4	Not Rated		Not Rated	
Newhan	4	Not Rated		Not Rated	
31:					
Psammments	40	Poor		Fair	
		Bottom layer	0.00	Bottom layer	0.99
		Thickest layer	0.00	Thickest layer	0.99
Urban land	35	Not Rated		Not Rated	
Corolla	5	Not Rated		Not Rated	
Fripp	5	Not Rated		Not Rated	
Newhan	5	Not Rated		Not Rated	
32:					
Rappahannock	80	Not Rated		Not Rated	
Nawney	10	Not Rated		Not Rated	
Pamlico	10	Not Rated		Not Rated	
33E:					
Rumford	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.10
		Thickest layer	0.00	Bottom layer	0.90
Bojac	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
Yeopim	5	Not Rated		Not Rated	

34A:

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
34A:					
State	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Bojac	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
Rumford	3	Not Rated		Not Rated	
Tetotum	2	Not Rated		Not Rated	
34B:					
State	90	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Bojac	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
35:					
State	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.08
Urban land	35	Not Rated		Not Rated	
Bojac	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
Rumford	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
36:					
Tetotum	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.15
Yeopim	3	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
Bojac	2	Not Rated		Not Rated	
Chapanoke	2	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
36:					
Dragston	2	Not Rated		Not Rated	
Munden	2	Not Rated		Not Rated	
State	2	Not Rated		Not Rated	
37:					
Tetotum	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.15
Urban land	35	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
Munden	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
Bojac	3	Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated	
38:					
Tomotley	75	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.36
Acredale	8	Not Rated		Not Rated	
Portsmouth	7	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated	
Nawney	1	Not Rated		Not Rated	
39:					
Tomotley	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.36
Urban land	35	Not Rated		Not Rated	
Acredale	5	Not Rated		Not Rated	

Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
39:					
Augusta	5	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
40:					
Udorthents	75	Not Rated		Not Rated	
Acredale	5	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
41:					
Udorthents	40	Not Rated		Not Rated	
Urban land	35	Not Rated		Not Rated	
Acredale	5	Not Rated		Not Rated	
Dragston	5	Not Rated		Not Rated	
Nimmo	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
42:					
Urban land	80	Not Rated		Not Rated	
Udorthents	10	Not Rated		Not Rated	
Acredale	2	Not Rated		Not Rated	
Dragston	2	Not Rated		Not Rated	
Nimmo	2	Not Rated		Not Rated	
State	2	Not Rated		Not Rated	
Tetotum	2	Not Rated		Not Rated	

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Table ENG-1. - Construction Materials - Continued

City of Virginia Beach, 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
43:					
Yeopim	85	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.27
Tetotum	6	Not Rated		Not Rated	
Chapanoke	5	Not Rated		Not Rated	
Augusta	2	Not Rated		Not Rated	
State	2	Not Rated		Not Rated	
44:					
Yeopim	40	Poor		Fair	
		Bottom layer	0.00	Thickest layer	0.00
		Thickest layer	0.00	Bottom layer	0.27
Urban land	35	Not Rated		Not Rated	
Augusta	5	Not Rated		Not Rated	
Chapanoke	5	Not Rated		Not Rated	
State	5	Not Rated		Not Rated	
Tetotum	5	Not Rated		Not Rated	
Udorthents	5	Not Rated		Not Rated	
W:					
Water	100	Not Rated		Not Rated	