

Table ENG-2. - Construction Materials

Essex 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 columns range from 0.00 to 0.99. The smaller the value, the greater the limitation.

Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1A:							
Atlee	80	Fair		Poor		Fair	
		Too acid	0.12	Low strength	0.00	Depth to saturated zone	0.53
		Low content of organic matter	0.13	Depth to saturated zone	0.53	Too acid	0.60
		Water erosion	0.99				
Emporia		Not Rated		Not Rated		Not Rated	
Kempsville		Not Rated		Not Rated		Not Rated	
2A:							
Augusta	90	Fair		Fair		Fair	
		Low content of organic matter	0.13	Depth to saturated zone	0.14	Depth to saturated zone	0.14
		Too acid	0.54			Too acid	0.98
Munden		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
Tomotley		Not Rated		Not Rated		Not Rated	
3A:							
Bibb	85	Fair		Poor		Poor	
		Too acid	0.12	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Low content of organic matter	0.88			Too acid	0.60
		Water erosion	0.99			Rock fragments	0.92
Catpoint		Not Rated		Not Rated		Not Rated	
Rappahanock		Not Rated		Not Rated		Not Rated	
4A:							
Bojac	85	Poor		Good		Fair	
		Wind erosion	0.00			Too acid	0.92
		Low content of organic matter	0.13				
		Too acid	0.39				
Munden		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	

5A:

Table ENG-2. - Construction Materials - Continued

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
5A:							
Bolling	90	Fair		Fair		Fair	
		Low content of organic matter	0.13	Depth to saturated zone	0.53	Depth to saturated zone	0.53
		Too acid	0.89				
Molena		Not Rated		Not Rated		Not Rated	
Pamunkey		Not Rated		Not Rated		Not Rated	
6B:							
Catpoint	90	Poor		Good		Fair	
		Wind erosion	0.00			Too sandy	0.30
		Low content of organic matter	0.13				
		Droughty	0.30				
Munden		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
7A:							
Chickahominy	85	Poor		Poor		Poor	
		Too clayey	0.00	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too acid	0.12	Low strength	0.00	Too Clayey	0.00
		Low content of organic matter	0.13	Shrink-swell	0.71	Too acid	0.60
Ponded soils		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
Tomotley		Not Rated		Not Rated		Not Rated	
8A:							
Dogue	85	Poor		Fair		Poor	
		Too clayey	0.00	Depth to saturated zone	0.76	Too Clayey	0.00
		Too acid	0.12	Shrink-swell	0.93	Too acid	0.60
		Low content of organic matter	0.13			Depth to saturated zone	0.76
Chickahominy		Not Rated		Not Rated		Not Rated	
Newflat		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
9A:							

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
9A:							
Emporia	90	Fair		Good		Fair	
		Low content of organic matter	0.13			Too Clayey	0.58
		Too acid	0.54			Too acid	0.98
		Too clayey	>0.99				
Kempsville		Not Rated		Not Rated		Not Rated	
Slagle		Not Rated		Not Rated		Not Rated	
9B:							
Emporia	90	Fair		Good		Fair	
		Low content of organic matter	0.13			Too Clayey	0.58
		Too acid	0.54			Too acid	0.98
		Too clayey	>0.99				
Kempsville		Not Rated		Not Rated		Not Rated	
Slagle		Not Rated		Not Rated		Not Rated	
9C:							
Emporia	80	Fair		Good		Fair	
		Low content of organic matter	0.13			Too Clayey	0.58
		Too acid	0.54			Too acid	0.98
		Too clayey	>0.99				
Kempsville		Not Rated		Not Rated		Not Rated	
Slagle		Not Rated		Not Rated		Not Rated	
10A:							
Kempsville	80	Fair		Good		Fair	
		Low content of organic matter	0.13			Rock fragments	0.88
		Too acid	0.54			Too acid	0.98
Emporia		Not Rated		Not Rated		Not Rated	
Slagle		Not Rated		Not Rated		Not Rated	
Suffolk		Not Rated		Not Rated		Not Rated	
10B:							
Kempsville	80	Fair		Good		Fair	
		Low content of organic matter	0.13			Rock fragments	0.88
		Too acid	0.54			Too acid	0.98
Emporia		Not Rated		Not Rated		Not Rated	

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
10B:							
Slagle		Not Rated		Not Rated		Not Rated	
Suffolk		Not Rated		Not Rated		Not Rated	
10C:							
Kempsville	95	Fair		Good		Fair	
		Low content of organic matter	0.13			Rock fragments	0.88
		Too acid	0.54			Too acid	0.98
Emporia		Not Rated		Not Rated		Not Rated	
11A:							
Levy	95	Poor		Poor		Poor	
		Sodium content	0.00	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too clayey	0.00	Low strength	0.00	Sodium content	0.00
		Too acid	0.12	Shrink-swell	0.56	Too Clayey	0.00
Rappahannock		Not Rated		Not Rated		Not Rated	
12A:							
Molena	85	Poor		Good		Poor	
		Too sandy	0.00			Too sandy	0.00
		Wind erosion	0.00			Rock fragments	0.88
		Droughty	0.11			Too acid	0.98
Munden		Not Rated		Not Rated		Not Rated	
Pamunkey		Not Rated		Not Rated		Not Rated	
12B:							
Molena	85	Poor		Good		Poor	
		Too sandy	0.00			Too sandy	0.00
		Wind erosion	0.00			Rock fragments	0.88
		Droughty	0.11			Too acid	0.98
Munden		Not Rated		Not Rated		Not Rated	
Pamunkey		Not Rated		Not Rated		Not Rated	
13A:							
Munden	80	Fair		Fair		Fair	
		Low content of organic matter	0.13	Depth to saturated zone	0.53	Depth to saturated zone	0.53
		Too acid	0.54			Too acid	0.98
Bojac		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
13A: Tetotum		Not Rated		Not Rated		Not Rated	
14A: Newflat	85	Fair Too acid Low content of organic matter Too clayey	0.12 0.13 0.88	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.64	Poor Depth to saturated zone Too Clayey Too acid	0.00 0.51 0.60
Chickahominy		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
15A: Pamunkey	90	Fair Low content of organic matter	0.13	Good		Good	
Bolling		Not Rated		Not Rated		Not Rated	
Molena		Not Rated		Not Rated		Not Rated	
16: Pits	100	Not Rated		Not Rated		Not Rated	
17A: Rappahannock	70	Poor Sodium content Salinity	0.00 0.97	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Sodium content Content of organic matter	0.00 0.00 0.00
18B: Rumford	90	Poor Wind erosion Too acid Low content of organic matter	0.00 0.12 0.13	Good		Fair Too acid	0.76
Kempsville		Not Rated		Not Rated		Not Rated	
Suffolk		Not Rated		Not Rated		Not Rated	
19E: Rumford	45	Poor Wind erosion Too acid Low content of organic matter	0.00 0.12 0.13	Poor Slope	0.00	Poor Slope Too acid	0.00 0.76

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
19E:							
Emporia	30	Fair		Poor		Poor	
		Low content of organic matter	0.13	Slope	0.00	Slope	0.00
		Too acid	0.54			Too Clayey	0.58
		Too clayey	>0.99			Too acid	0.98
Bibb		Not Rated		Not Rated		Not Rated	
Kempsville		Not Rated		Not Rated		Not Rated	
Slagle		Not Rated		Not Rated		Not Rated	
20D:							
Rumford	45	Poor		Good		Fair	
		Wind erosion	0.00			Slope	0.63
		Too acid	0.12			Too acid	0.76
		Low content of organic matter	0.13				
Slagle	25	Fair		Fair		Fair	
		Too acid	0.12	Depth to saturated zone	0.76	Too acid	0.60
		Low content of organic matter	0.13	Shrink-swell	>0.99	Slope	0.63
						Depth to saturated zone	0.76
Bibb		Not Rated		Not Rated		Not Rated	
Dogue		Not Rated		Not Rated		Not Rated	
Kempsville		Not Rated		Not Rated		Not Rated	
Suffolk		Not Rated		Not Rated		Not Rated	
21B:							
Slagle	80	Fair		Fair		Fair	
		Too acid	0.12	Depth to saturated zone	0.76	Too acid	0.60
		Low content of organic matter	0.13	Shrink-swell	>0.99	Depth to saturated zone	0.76
Atlee		Not Rated		Not Rated		Not Rated	
Emporia		Not Rated		Not Rated		Not Rated	
Kempsville		Not Rated		Not Rated		Not Rated	
21C:							
Slagle	80	Fair		Fair		Fair	
		Too acid	0.12	Depth to saturated zone	0.76	Too acid	0.60
		Low content of organic matter	0.13	Shrink-swell	>0.99	Depth to saturated zone	0.76

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		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
21C:							
Emporia		Not Rated		Not Rated		Not Rated	
Kempsville		Not Rated		Not Rated		Not Rated	
22A:							
State	90	Fair		Good		Fair	
		Too acid	0.12			Too acid	0.60
		Low content of organic matter	0.13				
Bojac		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
22B:							
State	90	Fair		Good		Fair	
		Too acid	0.12			Too acid	0.60
		Low content of organic matter	0.13				
Bojac		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
23A:							
Suffolk	90	Fair		Good		Fair	
		Low content of organic matter	0.13			Too acid	0.76
		Too acid	0.50				
Kempsville		Not Rated		Not Rated		Not Rated	
Rumford		Not Rated		Not Rated		Not Rated	
23B:							
Suffolk	90	Fair		Good		Fair	
		Low content of organic matter	0.13			Too acid	0.76
		Too acid	0.50				
Kempsville		Not Rated		Not Rated		Not Rated	
Rumford		Not Rated		Not Rated		Not Rated	
24A:							

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Map Symbol and Soil Name	Pct of Map Unit	Potential Source of Reclamation Material		Potential Source of Roadfill		Potential Source of Topsoil	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
24A:							
Tetotum	80	Fair		Poor		Fair	
		Too acid	0.12	Low strength	0.00	Depth to saturated zone	0.53
		Low content of organic matter	0.13	Depth to saturated zone	0.53	Too acid	0.60
		Water erosion	0.99				
Munden		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	
Tomotley		Not Rated		Not Rated		Not Rated	
24B:							
Tetotum	80	Fair		Poor		Fair	
		Too acid	0.12	Low strength	0.00	Depth to saturated zone	0.53
		Low content of organic matter	0.13	Depth to saturated zone	0.53	Too acid	0.60
		Water erosion	0.99				
Munden		Not Rated		Not Rated		Not Rated	
State		Not Rated		Not Rated		Not Rated	
Tomotley		Not Rated		Not Rated		Not Rated	
25A:							
Tomotley	80	Poor		Poor		Poor	
		Low content of organic matter	0.00	Depth to saturated zone	0.00	Depth to saturated zone	0.00
		Too acid	0.12			Too acid	0.76
Augusta		Not Rated		Not Rated		Not Rated	
Chickahominy		Not Rated		Not Rated		Not Rated	
Tetotum		Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	