

Table K2. - Soil Features

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

Absence of an entry indicates that the feature is not a concern or that data were not estimated.

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
1:									
Altavista	---	---	---	---	0	---	None	Moderate	Moderate
Augusta	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---
2:									
Augusta	---	---	---	---	0	---	None	High	Moderate
Altavista	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
2: Tomotley	---	---	---	---	---	---	---	---	---
3: Axis	---	---	---	---	0	---	None	High	High
Bohicket	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
Levy	---	---	---	---	---	---	---	---	---
Beaches	---	---	---	---	---	---	---	---	---
4: Beaches	---	---	---	---	0	---	Low	High	High
Axis	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---
5: Bethera	---	---	---	---	0	---	None	High	High

Table K2. - Soil Features - Continued

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
5:									
Izagora	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---
6:									
Bohicket	---	---	---	---	0	6-12	None	High	High
Axis	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
Levy	---	---	---	---	---	---	---	---	---
7:									
Bojac	---	---	---	---	0	---	None	Low	High
Altavista	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
7:									
Munden	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---
8B:									
Caroline	---	---	---	---	---	---	---	High	High
Emporia	---	---	---	---	---	---	---	---	---
Sagle	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
9:									
Chickahominy	---	---	---	---	0	---	None	High	High
Augusta	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
9: Peawick	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
10B: Craven	---	---	---	---	0	---	None	High	High
Caroline	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
10C: Craven	---	---	---	---	0	---	None	High	High
Caroline	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
10C:									
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
11B:									
Craven	---	---	---	---	0	---	None	High	High
Uchee	---	---	---	---	0	---	None	Low	High
Caroline	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
11C:									
Craven	---	---	---	---	0	---	None	High	High
Uchee	---	---	---	---	0	---	None	Low	High
Caroline	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
12:									
Dogue	---	---	---	---	---	---	---	High	High
Altavista	---	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
12: Peawick	---	---	---	---	---	---	---	---	---
13: Dragston	---	---	---	---	0	---	None	Low	High
Altavista	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---
14B: Emporia	---	---	---	---	---	---	---	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
14B:									
Kempsville	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
14C:									
Emporia	---	---	---	---	---	---	---	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
15D:									

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
15D:									
Emporia	---	---	---	---	---	---	---	Moderate	High
Caroline	---	---	---	---	---	---	---	---	---
Craven	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
15E:									
Emporia	---	---	---	---	---	---	---	Moderate	High
Slagle	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
15F:									
Emporia	---	---	---	---	---	---	---	Moderate	High

Table K2. - Soil Features - Continued

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
15F: Slagle	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
16: Izagora	---	---	---	---	0	---	None	Moderate	High
Emporia	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---	---
17: Johnston	---	---	---	---	0	---	None	High	High
Axis	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
17:									
Levy	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---
18B:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Emporia	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
19B:									
Kempsville	---	---	---	---	---	---	---	Low	Moderate
Emporia	---	---	---	---	---	---	---	Moderate	High

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
19B:									
Caroline	---	---	---	---	---	---	---	---	---
Kenansville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
20B:									
Kenansville	---	---	---	---	---	---	---	Low	High
Kempsville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
21:									

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
21: Levy	---	---	---	---	0	---	None	High	High
Axis	---	---	---	---	---	---	---	---	---
Bohicket	---	---	---	---	---	---	---	---	---
Johnston	---	---	---	---	---	---	---	---	---
22: Munden	---	---	---	---	0	---	None	Low	High
Bojac	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---
23: Newflat	---	---	---	---	0	---	None	High	High
Chickahominy	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
23:									
Peawick	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
24:									
Nimmo	---	---	---	---	0	---	None	Low	High
Altavista	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---
25B:									
Norfolk	---	---	---	---	---	---	---	Moderate	High
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
25B: Slagle	---	---	---	---	---	---	---	---	---
26B: Pamunkey	---	---	---	---	---	---	---	Moderate	High
Altavista	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
27: Peawick	---	---	---	---	0	---	None	High	High
Chickahominy	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
27: Pamunkey	---	---	---	---	---	---	---	---	---
28: Seabrook	---	---	---	---	0	---	None	Low	Moderate
Munden	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---
Altavista	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---
Tomotley	---	---	---	---	---	---	---	---	---
29A: Slagle	---	---	---	---	0	---	None	Moderate	High
Bethera	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
29A:									
Emporia	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---	---
Yemassee	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
29B:									
Slagle	---	---	---	---	0	---	None	Moderate	High
Emporia	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Peawick	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
29B: Uchee	---	---	---	---	---	---	---	---	---
30: State	---	---	---	---	0	---	None	Moderate	High
Altavista	---	---	---	---	---	---	---	---	---
Augusta	---	---	---	---	---	---	---	---	---
Dogue	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---
Tetotum	---	---	---	---	---	---	---	---	---
31B: Suffolk	---	---	---	---	0	---	None	Moderate	High
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
31B:									
Kenansville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
32:									
Tetotum	---	---	---	---	---	---	---	High	High
Augusta	---	---	---	---	---	---	---	---	---
Chickahominy	---	---	---	---	---	---	---	---	---
Newflat	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---
State	---	---	---	---	---	---	---	---	---
33:									
Tomotley	---	---	---	---	0	---	None	High	High
Altavista	---	---	---	---	---	---	---	---	---

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Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
33: Augusta	---	---	---	---	---	---	---	---	---
Dragston	---	---	---	---	---	---	---	---	---
Munden	---	---	---	---	---	---	---	---	---
Nimmo	---	---	---	---	---	---	---	---	---
Seabrook	---	---	---	---	---	---	---	---	---
Bojac	---	---	---	---	---	---	---	---	---
34B: Uchee	---	---	---	---	0	---	None	Low	High
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---

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	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
34C:									
Uchee	---	---	---	---	0	---	None	Low	High
Emporia	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
35:									
Udorthents	---	---	---	---	---	---	---	---	---
Pamunkey	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---	---

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
35:									
Caroline	---	---	---	---	---	---	---	---	---
Emporia	---	---	---	---	---	---	---	---	---
36:									
Udorthents	---	---	---	---	---	---	---	---	---
Dumps	---	---	---	---	0	---	None	---	---
Igazora	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
Suffolk	---	---	---	---	---	---	---	---	---
Uchee	---	---	---	---	---	---	---	---	---
Bethera	---	---	---	---	---	---	---	---	---
Caroline	---	---	---	---	---	---	---	---	---
Kempsville	---	---	---	---	---	---	---	---	---

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

Map Symbol and Soil Name	Restrictive Layer				Subsidence		Potential for Frost Action	Risk of Corrosion	
	Kind	Depth to Top	Thickness	Hardness	Initial	Total		Uncoated Steel	Concrete
		In	In		In	In			
37: Urban land	Cemented horizon	0	---	Indurated	0	---	None	---	---
Emporia	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
38: Yemassee	---	---	---	---	0	---	None	High	High
Bethera	---	---	---	---	---	---	---	---	---
Izagora	---	---	---	---	---	---	---	---	---
Slagle	---	---	---	---	---	---	---	---	---
W: Water	---	---	---	---	---	---	---	---	---