

Section II  
Soil and Site Information

Building Site Development  
Edmunds County, South Dakota

(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 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Bearden-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Bc: Bowbells-----	50	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Cresbard-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength Frost action	1.00 0.50	Cutbanks cave Too clayey	0.10 0.03		
BoA: Bowdle-----	85	Not limited		Very limited Cutbanks cave	1.00	Not limited	
BoB: Bowdle-----	90	Not limited		Very limited Cutbanks cave	1.00	Not limited	
BrA: Bryant-----	79	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
BrB: Bryant-----	82	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
BrC: Bryant-----	85	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BvA: Bryant-----	80	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
BxB: Bryant-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Grassna-----	25	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Dv: Divide-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Not limited	
EdE: Edgeley-----	80	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.42 0.10	Very limited Slope Depth to bedrock Droughty	1.00 0.42 0.13
GP: Orthents, Gravelly--	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content	0.42 0.25
Gr: Grassna-----	90	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
He: Heil-----	85	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Cutbanks cave	1.00	Ponding	1.00
		Low strength	1.00	Ponding	1.00		
		Ponding	1.00	Too clayey	0.72		
		Frost action	0.50				
LeA: Lehr-----	80	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.11
LeB: Lehr-----	80	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.11
LhB: Lehr-----	50	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.11
Bowdle-----	30	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Lt: Letcher-----	90	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.47	Not limited	
				Cutbanks cave	0.10		
Lv: La Prairie-----	50	Very limited Flooding	1.00	Somewhat limited Flooding	0.80	Very limited Flooding	1.00
		Low strength	1.00	Depth to saturated zone	0.47		
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Ranslo-----	44	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10	Depth to saturated zone	0.19
		Shrink-swell	0.50	Too clayey	0.03		
		Depth to saturated zone	0.19				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Mb: Parnell-----	95	Very limited Shrink-swell Ponding  Depth to saturated zone Frost action Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Content of organic matter Too clayey Cutbanks cave	1.00 1.00 1.00 0.28 0.10	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00
MdA: Mondamin-----	82	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Cutbanks cave Too clayey	1.00 0.03	Not limited	
MdB: Mondamin-----	80	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Cutbanks cave Too clayey	1.00 0.03	Not limited	
Mh: Mondamin-----	55	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Cutbanks cave Too clayey	1.00 0.03	Not limited	
Heil-----	25	Very limited Shrink-swell  Depth to saturated zone Low strength Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave  Ponding Too clayey	1.00 1.00 1.00 0.72	Very limited Depth to saturated zone Ponding	1.00 1.00
NmA: Niobell-----	42	Very limited Low strength  Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Miranda-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
NpB: Niobell-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Noonan-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Or: Orthents, Loamy----	80	Not rated		Not rated		Not rated	
Pa: Parnell-----	85	Very limited Shrink-swell	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Ponding	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28		
		Frost action	1.00	Cutbanks cave	0.10		
		Low strength	1.00				
Rh: Ranslo-----	45	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10	Depth to saturated zone	0.19
		Shrink-swell	0.50	Too clayey	0.03		
		Depth to saturated zone	0.19				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Harriet-----	30	Very limited Depth to saturated zone Frost action  Flooding Low strength Shrink-swell	1.00  1.00  1.00 1.00 0.50	Very limited Depth to saturated zone Flooding  Cutbanks cave Too clayey	1.00  0.60  0.10 0.03	Very limited Sodium content  Depth to saturated zone Flooding	1.00  1.00 0.60
Rn: Regan-----	82	Very limited Frost action  Flooding  Depth to saturated zone Shrink-swell	1.00  1.00  1.00 0.50	Very limited Depth to saturated zone Cutbanks cave  Flooding	1.00  1.00  0.80	Very limited Flooding  Depth to saturated zone	1.00  1.00
Sp: Spottswood-----	85	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
TaB: Tally-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
TbB: Temvik-----	50	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bryant-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
TgB: Temvik-----	50	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Grassna-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
TgC: Temvik-----	50	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Grassna-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
Tn: Tonka-----	50	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Ponding	1.00				
		Shrink-swell	0.50				
Nishon-----	40	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.50		
		Ponding	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
VdC: Vida-----	90	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Very limited Content of large stones	1.00
		Shrink-swell	0.50	Slope	0.04	Slope	0.04
		Frost action	0.50				
		Slope	0.04				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VwC: Vida-----	45	Somewhat limited Low strength	0.78	Somewhat limited Slope	0.37	Very limited Content of large stones	1.00
		Shrink-swell Frost action Slope	0.50 0.50 0.37	Cutbanks cave	0.10	Slope	0.37
Williams-----	35	Very limited Low strength	1.00	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37
		Shrink-swell Frost action Slope	0.50 0.50 0.37	Cutbanks cave	0.10		
VzE: Vida-----	45	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10	Content of large stones	1.00
		Shrink-swell Frost action	0.50 0.50				
Zahill-----	30	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10	Content of large stones	0.01
		Shrink-swell Frost action	0.50 0.50				
W: Water-----	100	Not rated		Not rated		Not rated	
WaD: Wabek-----	90	Somewhat limited Slope	0.84	Somewhat limited Slope	0.84	Somewhat limited Droughty Slope	0.97 0.84
				Cutbanks cave	0.10		
WbC: Bowdle-----	35	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Wabek-----	35	Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Somewhat limited Droughty Slope	0.97 0.37
				Cutbanks cave	0.10		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WnB: Williams-----	65	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
WnC: Williams-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
WtA: Williams-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	25	Very limited Frost action  Low strength Shrink-swell	1.00  1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47  0.10	Not limited	
Nishon-----	15	Very limited Shrink-swell  Depth to saturated zone Low strength Ponding Frost action	1.00  1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding  Too clayey Cutbanks cave	1.00  1.00  0.50 0.10	Very limited Depth to saturated zone Ponding	1.00  1.00
WtB: Williams-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bowbells-----	20	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
WvC: Williams-----	45	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
Bowbells-----	20	Somewhat limited		Somewhat limited		Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				