

CONSTRUCTION MATERIALS
Stevens County, Kansas

Construction Materials

The following tables give information about the soils as potential sources of gravel, sand, topsoil, reclamation material, and roadfill. Normal compaction, minor processing, and other standard construction practices are assumed.

The soils are rated good, fair, or poor as potential sources of topsoil, reclamation material, and roadfill. The features that limit the soils as sources of these materials are specified in the tables. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of topsoil, reclamation material, or roadfill. The lower the number, the greater the limitation.

The soils are rated as a probable or improbable source of sand and gravel. A rating of probable means that the source material is likely to be in or below the soil. The numerical ratings in these columns indicate the degree of probability. The number 0.00 indicates that the soil is an improbable source. A number between 0.00 and 1.00 indicates the degree to which the soil is a probable source of sand or gravel.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In these tables, only the probability of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the lowest layer of the soil contains sand or gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a water table, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a water table, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a water table, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. 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. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
067LO: Pleasant-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
067OF: Otero-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.08
067OG: Otero-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.08
Schamber-----	35	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.08 0.49
067SA: Satanta-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
067SB: Satanta-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
067TF: Valent-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Good Bottom layer	0.99
067TV: Valent-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.65 0.99
Vona-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.09 0.46
067UE: Ulysses-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Colby-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
067VO: Vona-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.09 0.89
081OG: Otero-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.08
Schamber-----	25	Poor Thickest layer Bottom layer	0.00 0.00	Fair Thickest layer Bottom layer	0.08 0.77
1044: Atchison-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
1046: Atchison-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. 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. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
1182: Belfon-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.89
1184: Bigbow-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.10
1185: Bigbow-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.10
1504: Dalhart-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
1505: Dalhart-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
1506: Dalhart-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
1558: Dalhart-----	80	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
1559: Dalhart-----	55	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.08
Eva-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.09 0.22
1670: Eva-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.09 0.22
1671: Eva-----	50	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.09 0.73
Optima-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.99 0.99
1672: Eva-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.09 0.73
1723: Peterita-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.03
1979: Haverson-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.08
1980: Happyditch-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.39 0.91

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
1981: Happyditch-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.39 0.91
1984: Happyditch-----	95	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.39 0.91
3047: Optima-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.99 0.99
3048: Optima-----	85	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.99 0.99
3415: Satanta-----	90	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.00 0.07
3506: Shore-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
3725: Ulysses-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
3969: Wagonbed-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Bo: Valent-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Good Bottom layer	0.99
CIR: Cimarron River-----	100	Not rated		Not rated	
Cm: Colby-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Da: Dalhart-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.05 0.08
Db: Dalhart-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.05 0.08
DE: Dalhart-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.05 0.08
Dx: Dalhart-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.05 0.08
Otero-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.08 0.08

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Go: Goshen-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Lf: Lincoln-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.39 0.89
Lo: Pleasant-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Lp: Pleasant-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ma: Penden-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mb: Penden-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Mx: Penden-----	70	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Otero-----	30	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.08 0.08
My: Manter-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.08 0.39
Ot: Otero-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.07 0.08
Ra: Satanta-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rb: Haxtun-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Bottom layer Thickest layer	0.00 0.63
Rm: Richfield-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Rx: Richfield-----	75	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ulysses-----	25	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Tf: Valent-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.91 0.99

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Map symbol and soil name	Pct. of map unit	Potential source of gravel		Potential source of sand	
		Rating class	Value	Rating class	Value
Ua: Ulysses-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ub: Ulysses-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Ue: Ulysses-----	65	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Colby-----	35	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00
Vo: Vona-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.17 0.89
Vx: Vona-----	60	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.17 0.89
Valent-----	40	Poor Bottom layer Thickest layer	0.00 0.00	Fair Thickest layer Bottom layer	0.65 0.99
W: Water-----	100	Poor Bottom layer Thickest layer	0.00 0.00	Poor Bottom layer Thickest layer	0.00 0.00

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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
067LO: Pleasant-----	100	Poor Too clayey Water erosion	0.00 0.90	Poor Depth to saturated zone Shrink-swell	0.00 0.84	Poor Depth to saturated zone Too Clayey	0.00 0.00
067OF: Otero-----	100	Fair Low content of organic matter	0.18	Good		Fair Rock fragments	0.97
067OG: Otero-----	65	Fair Low content of organic matter	0.18	Good		Fair Slope Rock fragments	0.16 0.97
Schamber-----	35	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.08	Good		Poor Hard to reclaim Rock fragments Too sandy Slope	0.00 0.00 0.00 0.16
067SA: Satanta-----	100	Fair Low content of organic matter	0.50	Good		Good	
067SB: Satanta-----	100	Fair Low content of organic matter	0.50	Good		Good	
067TF: Valent-----	100	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.71	Good		Poor Too sandy Slope	0.00 0.16
067TV: Valent-----	65	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.79	Good		Poor Too sandy Slope	0.00 0.84
Vona-----	35	Poor Wind erosion Low content of organic matter	0.00 0.50	Good		Good	
067UE: Ulysses-----	60	Fair Low content of organic matter Water erosion	0.18 0.90	Poor Low strength	0.00	Good	
Colby-----	40	Fair Low content of organic matter Water erosion	0.18 0.90	Poor Low strength	0.00	Good	
067VO: Vona-----	100	Poor Wind erosion Low content of organic matter	0.00 0.18	Good		Good	
081OG: Otero-----	75	Fair Low content of organic matter	0.18	Good		Fair Slope Rock fragments	0.84 0.97

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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
Schamber-----	25	Poor Too sandy Droughty Low content of organic matter	0.00 0.00 0.08	Good		Poor Too sandy Hard to reclaim Rock fragments Slope	0.00 0.00 0.00 0.16
1044: Atchison-----	90	Fair Low content of organic matter Water erosion	0.88 0.90	Good		Good	
1046: Atchison-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength	0.00	Good	
1182: Belfon-----	70	Fair Low content of organic matter No water erosion limitation	0.50 0.99	Fair Shrink-swell	0.87	Good	
1184: Bigbow-----	70	Fair Low content of organic matter	0.32	Fair Shrink-swell	0.99	Good	
1185: Bigbow-----	60	Poor Wind erosion Low content of organic matter	0.00 0.32	Fair Shrink-swell	0.99	Good	
1504: Dalhart-----	80	Fair Low content of organic matter	0.12	Good		Good	
1505: Dalhart-----	80	Fair Low content of organic matter	0.12	Good		Good	
1506: Dalhart-----	80	Poor Wind erosion Low content of organic matter	0.00 0.12	Good		Good	
1558: Dalhart-----	80	Poor Wind erosion Low content of organic matter	0.00 0.12	Good		Good	
1559: Dalhart-----	55	Poor Wind erosion Low content of organic matter	0.00 0.12	Good		Good	
Eva-----	40	Poor Wind erosion Low content of organic matter	0.00 0.02	Good		Good	
1670: Eva-----	85	Poor Wind erosion Low content of organic matter	0.00 0.02	Good		Good	

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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
1671: Eva-----	50	Poor Wind erosion Low content of organic matter	0.00 0.02	Good		Good	
Optima-----	40	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.00	Good		Poor Too sandy Slope	0.00 0.16
1672: Eva-----	75	Poor Wind erosion Low content of organic matter	0.00 0.02	Good		Good	
1723: Feterita-----	100	Poor Too clayey No water erosion limitation	0.00 0.99	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Too Clayey	0.00 0.00
1979: Haverson-----	90	Fair Low content of organic matter	0.12	Good		Fair Rock fragments	0.97
1980: Happyditch-----	95	Poor Wind erosion Too sandy Low content of organic matter Droughty	0.00 0.02 0.12 0.98	Good		Fair Too sandy	0.02
1981: Happyditch-----	95	Poor Wind erosion Too sandy Low content of organic matter Droughty	0.00 0.02 0.12 0.98	Good		Fair Too sandy	0.02
1984: Happyditch-----	95	Poor Wind erosion Too sandy Low content of organic matter Droughty	0.00 0.02 0.12 0.98	Good		Fair Too sandy	0.02
3047: Optima-----	70	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.00	Good		Poor Too sandy	0.00
3048: Optima-----	85	Poor Too sandy Wind erosion Low content of organic matter	0.00 0.00 0.00	Good		Poor Too sandy Slope	0.00 0.63
3415: Satanta-----	90	Fair Low content of organic matter	0.88	Fair Shrink-swell	0.96	Good	
3506: Shore-----	70	Fair Low content of organic matter Water erosion	0.12 0.68	Good		Good	

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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
3725: Ulysses-----	70	Fair Low content of organic matter Water erosion Carbonate content	0.68 0.90 0.97	Good		Fair Carbonate content	0.97
3969: Wagonbed-----	75	Fair Low content of organic matter Too clayey Water erosion	0.18 0.68 0.90	Fair Shrink-swell	0.87	Fair Too Clayey	0.48
Bo: Valent-----	100	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.71	Good		Poor Too sandy Slope	0.00 0.84
CIR: Cimarron River-----	100	Not rated		Not rated		Not rated	
Cm: Colby-----	100	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Fair Slope	0.96
Da: Dalhart-----	100	Fair Low content of organic matter	0.50	Good		Good	
Db: Dalhart-----	100	Fair Low content of organic matter	0.50	Good		Good	
Df: Dalhart-----	100	Poor Wind erosion Low content of organic matter	0.00 0.50	Good		Good	
Dx: Dalhart-----	65	Fair Low content of organic matter	0.50	Good		Good	
Otero-----	35	Fair Low content of organic matter	0.18	Good		Fair Rock fragments	0.97
Go: Goshen-----	100	Fair Low content of organic matter Water erosion	0.50 0.90	Good		Good	
Lf: Lincoln-----	100	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.00 0.08	Good		Poor Too sandy	0.00
Lo: Pleasant-----	100	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to saturated zone Shrink-swell	0.00 0.97	Poor Depth to saturated zone	0.00

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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
Lp: Pleasant-----	100	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Depth to saturated zone Shrink-swell	0.00 0.97	Poor Depth to saturated zone	0.00
Ma: Penden-----	100	Fair Low content of organic matter Carbonate content Too clayey	0.18 0.80 0.95	Fair Shrink-swell	0.87	Fair Too Clayey	0.69
Mb: Penden-----	100	Fair Low content of organic matter Carbonate content Too clayey	0.18 0.80 0.95	Fair Shrink-swell	0.87	Fair Too Clayey	0.69
Mx: Penden-----	70	Fair Low content of organic matter Carbonate content Too clayey	0.18 0.80 0.95	Fair Shrink-swell	0.87	Fair Too Clayey	0.69
Otero-----	30	Fair Low content of organic matter Droughty	0.88 0.98	Good		Fair Rock fragments	0.97
My: Manter-----	100	Fair Too sandy Low content of organic matter	0.02 0.02	Good		Fair Too sandy Rock fragments	0.02 0.97
Ot: Otero-----	100	Fair Droughty Low content of organic matter	0.35 0.88	Good		Fair Slope Rock fragments	0.96 0.97
Ra: Satanta-----	100	Fair Low content of organic matter	0.50	Good		Good	
Rb: Haxtun-----	100	Poor Wind erosion Low content of organic matter	0.00 0.08	Fair Shrink-swell	0.96	Good	
Rm: Richfield-----	100	Fair Too clayey Water erosion Low content of organic matter	0.05 0.90 0.92	Fair Shrink-swell	0.45	Fair Too Clayey	0.03
Rx: Richfield-----	75	Fair Low content of organic matter Water erosion	0.18 0.90	Fair Shrink-swell	0.76	Good	
Ulysses-----	25	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Good	
Tf: Valent-----	100	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.11	Fair Slope	0.82	Poor Too sandy Slope	0.00 0.00

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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
Ua: Ulysses-----	100	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Good	
Ub: Ulysses-----	100	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Good	
Ue: Ulysses-----	65	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Good	
Colby-----	35	Fair Low content of organic matter Water erosion	0.18 0.90	Good		Good	
Vo: Vona-----	100	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.41 0.88	Good		Fair Too sandy	0.41
Vx: Vona-----	60	Poor Wind erosion Too sandy Low content of organic matter	0.00 0.41 0.88	Good		Fair Too sandy	0.41
Valent-----	40	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.08 0.77	Good		Poor Too sandy Slope	0.00 0.16
W: Water-----	100	Poor Low content of organic matter	0.00	Poor Slope Low strength	0.00 0.00	Poor Slope	0.00

