

Engineering Interpretations

Construction Material and Excavating

Soils are rated as sources for road fill, topsoil, sand, and gravel. Suitability ratings of good, fair, or poor are given for soils used as a source of road fill and topsoil. Ratings of probable and improbable are given for sand and gravel. A rating of probable means that on the basis of the available evidence, the source material is likely to be in or below the soil. A rating of improbable means that the source material is unlikely to be in or below the soil. The ratings for sand and gravel do not consider the quality of the source material because quality depends on how the source material is to be used.

Road Fill

Road fill consists of soil material that is excavated from its original position and used in road embankments elsewhere. The evaluations for road fill are for low embankments that generally are less than 6 feet in height and are less exacting in design than high embankments such as those along superhighways. The rating is given for the whole soil, from the surface to a depth of about 5 feet, based on the assumption that soil horizons will be mixed in loading, dumping, and spreading. Soils are rated as to the amount of material available for excavation, the ease of excavation, and how well the material performs after it is in place.

Sand

Sand as a construction material is usually defined as particles ranging in size from 0.074 mm (sieve #200) to 4.75 mm (sieve #4) in diameter. Sand is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the sand for specific purposes is not evaluated. If the lowest layer of the soil contains sand, the soil is rated as a probable source regardless of thickness. The assumption is that the sand layer below the depth of observation exceeds the minimum thickness.

Gravel

Gravel as a construction material is defined as particles ranging in size from 4.76 mm (sieve #4) to 76 mm (3 inches) in diameter.

Gravel is used in great quantities in many kinds of construction. Specifications for each purpose vary widely. The intent of this rating is to show only the probability of finding material in suitable quantity. The suitability of the gravel for specific purposes is not evaluated. If the lowest layer of the soil contains gravel, the soil is rated as a probable source regardless of thickness. The assumption is that the gravel layer below the depth of observation exceeds the minimum thickness.

Topsoil

The term "topsoil" has several meanings. As used here, the term describes soil material used to cover an area so as to improve soil conditions for establishment and maintenance of adapted vegetation. Generally, the upper part of the soil, which is richest in organic matter, is most desirable; however, material excavated from deeper layers is also used. In this rating, the upper 40 inches of soil material is evaluated for use as topsoil. In the

borrow area, the material below 40 inches is evaluated for its suitability for plant growth after the upper 40 inches is removed. The soil properties that are used to rate the soil as topsoil are those that affect plant growth, the ease of excavation, loading, and spreading, and those that affect the reclamation of the borrow area.

This subsection includes:

- **(a) Construction Materials and Excavating**

Construction Materials and Excavating

(The information in this report 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 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
66014:										
Haymond-----	Not limited		Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Not limited		Moderately limited ~flooding (moderately limited)	0.60
			~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00			~cutbanks cave (slightly limited)	0.29
70028:										
Moko-----	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Limited ~excess fines (bottom layer)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00
			~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	0.75	~small stones (very limited)	1.00	~cutbanks cave (slightly limited)	0.29
							~large surface stones (limited)	0.80	~slope (slightly limited)	0.04
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73013:										
Lowassie-----	Very limited ~wetness (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~wetness (very limited)	1.00	Very limited ~ponded (wetness) (very limited)	1.00
	~low strength (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~too clayey (very limited)	1.00	~wetness (very limited)	1.00
	~shrink-swell (moderately limited)	0.35					~too acid (moderately limited)	0.54	~too clayey (moderately limited)	0.60
73032:										
Gatewood-----	Very limited ~low strength (very limited)	1.00	Very limited ~excess fines (thickest layer)	1.00	Very limited ~excess fines (bottom layer)	1.00	Very limited ~depth to bedrock (very limited)	1.00	Very limited ~hard bedrock <40" (very limited)	1.00
	~depth to bedrock (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~too clayey (very limited)	1.00	~wetness (very limited)	1.00
	~shrink-swell (very limited)	1.00					~wetness (slightly limited)	0.26	~too clayey (very limited)	1.00

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73039:										
Glensted-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~wetness	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00			~too clayey	0.80
	(very limited)		(bottom layer)		(thickest layer)				(limited)	
	~low strength	1.00							~cutbanks cave	0.29
	(very limited)								(slightly limited)	
73053:										
Lily-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00	~too acid	0.30	~hard bedrock <40"	1.00
			(bottom layer)		(thickest layer)		(slightly limited)		(very limited)	
							~too clayey	0.04		
							(slightly limited)			
Bender-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~large stones	0.09	~excess fines	1.00	~possible source	0.42	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~large stones >25%	1.00	~large stones	0.09
							(very limited)		(slightly limited)	
73066:										
Bender-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~large stones	0.09	~excess fines	1.00	~possible source	0.42	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~large stones >25%	1.00	~large stones	0.09
							(very limited)		(slightly limited)	
73067:										
Bender-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	1.00	~excess fines	1.00	~possible source	0.42	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.09					~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)						(very limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73080:										
Alred-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~large stones	0.04	~excess fines	1.00	~possible source	0.42	~small stones	1.00	~too clayey	0.48
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(moderately limited)	
							~large stones >25%	1.00	~cutbanks cave	0.29
							(very limited)		(slightly limited)	
Bardley-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	1.00					~depth to bedrock	1.00	~too clayey	1.00
	(very limited)						(very limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73087:										
Celt-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	1.00					~dense layer	0.99	~too clayey	1.00
	(very limited)						(limited)		(very limited)	
73089:										
Rueter-----	Limited		Very limited		Limited		Very limited		Very limited	
	~slope	0.92	~excess fines	1.00	~excess fines	0.99	~slope	1.00	~slope	1.00
	(limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~large stones	0.29	~excess fines	1.00	~excess fines	0.99	~small stones	1.00	~too clayey	0.83
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(limited)	
	~shrink-swell	0.09	~small stones	0.66	~small stones	0.66	~area reclaim	1.00	~cutbanks cave	0.29
	(slightly limited)		(thickest layer)		(thickest layer)		(very limited)		(slightly limited)	
73094:										
Gatewood-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~too clayey	1.00	~wetness	1.00
	(very limited)						(very limited)		(very limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73098:										
Plato-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer <20"	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~wetness	0.99					~wetness	0.99	~too clayey	1.00
	(very limited)						(very limited)		(very limited)	
73135, 73136:										
Union-----	Very limited		Very limited		Very limited		Limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer	0.86	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(limited)		(very limited)	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~too clayey	0.83	~wetness	1.00
	(limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~wetness	0.82	~too clayey	1.00
	(moderately limited)						(limited)		(very limited)	
73159:										
Yelton-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer <20"	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~wetness	0.82	~dense layer <20"	1.00
	(limited)		(bottom layer)		(bottom layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~too clayey	0.48	~cutbanks cave	0.29
	(moderately limited)						(moderately limited)		(slightly limited)	
73160:										
Hobson-----	Limited		Very limited		Very limited		Limited		Very limited	
	~wetness	0.74	~excess fines	1.00	~excess fines	1.00	~dense layer	0.93	~wetness	1.00
	(limited)		(thickest layer)		(bottom layer)		(limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00	~wetness	0.74	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(limited)		(very limited)	
							~slope	0.63	~dense layer	0.93
							(limited)		(limited)	
73161:										
Alred-----	Not limited		Very limited		Limited		Very limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~cutbanks cave	1.00
			(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.75	~slope	0.63	~too clayey	0.80
			(bottom layer)		(thickest layer)		(limited)		(limited)	
							~too acid	0.42	~slope	0.63
							(moderately limited)		(limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73161:										
Rueter-----	Slightly limited		Very limited		Limited		Very limited		Limited	
	~large stones	0.29	~excess fines	1.00	~small stones	0.66	~small stones	1.00	~too clayey	0.83
	(slightly limited)		(thickest layer)		(thickest layer)		(very limited)		(limited)	
	~shrink-swell	0.09	~excess fines	1.00	~small stones	0.66	~area reclaim	1.00	~cutbanks cave	0.29
	(slightly limited)		(bottom layer)		(bottom layer)		(very limited)		(slightly limited)	
			~small stones	0.66	~possible source	0.50	~too acid	0.36	~large stones	0.29
			(thickest layer)		(bottom layer)		(moderately limited)		(slightly limited)	
73162:										
Alred-----	Limited		Very limited		Limited		Very limited		Very limited	
	~slope	0.92	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.75	~small stones	1.00	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~large surface stones	0.80	~too clayey	0.80
							(limited)		(limited)	
Rueter-----	Limited		Very limited		Limited		Very limited		Very limited	
	~slope	0.92	~excess fines	1.00	~small stones	0.66	~slope	1.00	~slope	1.00
	(limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.29	~excess fines	1.00	~small stones	0.66	~small stones	1.00	~too clayey	0.83
	(slightly limited)		(bottom layer)		(bottom layer)		(very limited)		(limited)	
	~shrink-swell	0.09	~small stones	0.66	~possible source	0.50	~area reclaim	1.00	~cutbanks cave	0.29
	(slightly limited)		(thickest layer)		(bottom layer)		(very limited)		(slightly limited)	
73163:										
Bardley-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	1.00					~depth to bedrock	1.00	~too clayey	1.00
	(very limited)						(very limited)		(very limited)	
Alred-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.75	~small stones	1.00	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~large surface stones	1.00	~too clayey	0.80
							(very limited)		(limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73163:										
Gasconade-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	1.00	~excess fines	1.00	~possible source	0.25	~slope	1.00	~slope	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~small stones	1.00	~too clayey	0.62
	(very limited)						(very limited)		(limited)	
73164:										
Bender-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~possible source	0.42	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.09					~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)						(very limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73165:										
Knobby-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~possible source	0.42	~slope	1.00	~slope	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.03					~small stones	1.00	~cutbanks cave	0.29
	(slightly limited)						(very limited)		(slightly limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
Bardley-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00					~depth to bedrock	1.00	~too clayey	1.00
	(very limited)						(very limited)		(very limited)	
73166:										
Viburnum-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~wetness	1.00
	(very limited)		(bottom layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	0.76					~wetness	0.76	~too clayey	1.00
	(limited)						(limited)		(very limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73166:										
Tonti-----	Very limited		Very limited		Possible source		Limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer	0.99	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(limited)		(very limited)	
	~wetness	0.76	~excess fines	1.00	~possible source	0.50	~wetness	0.76	~cutbanks cave	1.00
	(limited)		(bottom layer)		(bottom layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~too clayey	0.55	~too clayey	1.00
	(moderately limited)						(moderately limited)		(very limited)	
73168:										
Swiss-----	Very limited		Very limited		Very limited		Very limited		Limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	0.99
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer	0.46	~too clayey	0.80
	(very limited)		(bottom layer)		(thickest layer)		(moderately limited)		(limited)	
	~wetness	0.03					~too acid	0.42	~dense layer	0.46
	(slightly limited)						(moderately limited)		(moderately limited)	
73169:										
Beemont-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~too clayey	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	0.92					~too acid	0.30	~wetness	1.00
	(limited)						(slightly limited)		(very limited)	
Gateway-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~too clayey	1.00	~wetness	1.00
	(very limited)						(very limited)		(very limited)	
73170:										
Beemont-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~too clayey	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~too acid	0.30	~wetness	1.00
	(very limited)		(bottom layer)		(thickest layer)		(slightly limited)		(very limited)	
	~wetness	0.12					~large surface stones	0.13	~depth to bedrock	0.32
	(slightly limited)						(slightly limited)		(moderately limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73170:										
Gatewood-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~wetness	0.26	~too clayey	1.00
	(very limited)						(slightly limited)		(very limited)	
73171:										
Plato-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	0.99	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	0.99					~dense layer	0.99	~dense layer	0.99
	(very limited)						(limited)		(limited)	
73172:										
Rosati-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	0.98	~dense layer	0.88
	(very limited)		(bottom layer)		(thickest layer)		(limited)		(limited)	
	~wetness	0.98					~dense layer	0.88	~too clayey	0.42
	(limited)						(limited)		(moderately limited)	
73173:										
Lily-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness		~excess fines	1.00	~excess fines	1.00	~too acid	0.30	~hard bedrock <40"	1.00
			(bottom layer)		(thickest layer)		(slightly limited)		(very limited)	
							~too clayey	0.04		
							(slightly limited)			
Yelton-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer <20"	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~wetness	0.82	~dense layer <20"	1.00
	(limited)		(bottom layer)		(bottom layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~too clayey	0.48	~cutbanks cave	0.29
	(moderately limited)						(moderately limited)		(slightly limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73174:										
Lily-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00	~slope	0.63	~hard bedrock <40"	1.00
			(bottom layer)		(thickest layer)		(limited)		(very limited)	
							~too acid	0.30	~slope	0.63
							(slightly limited)		(limited)	
Yelton-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer <20"	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(very limited)		(very limited)	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~wetness	0.82	~dense layer <20"	1.00
	(limited)		(bottom layer)		(bottom layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~slope	0.63	~slope	0.63
	(moderately limited)						(limited)		(limited)	
73175:										
Poynor-----	Not limited		Very limited		Limited		Very limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~too clayey	1.00
			(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.99	~too acid	0.12	~cutbanks cave	0.29
			(bottom layer)		(thickest layer)		(slightly limited)		(slightly limited)	
Bendavis-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	0.12	~excess fines	1.00	~excess fines	0.75	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~too acid	0.36	~wetness	1.00
							(moderately limited)		(very limited)	
73176:										
Bendavis-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	0.12	~excess fines	1.00	~excess fines	0.75	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~slope	0.63	~wetness	1.00
							(limited)		(very limited)	
Poynor-----	Not limited		Very limited		Limited		Very limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~too clayey	1.00
			(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.99	~slope	0.63	~slope	0.63
			(bottom layer)		(thickest layer)		(limited)		(limited)	
							~large surface stones	0.13	~cutbanks cave	0.29
							(slightly limited)		(slightly limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73178:										
Bendavis-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	0.92	~excess fines	1.00	~excess fines	0.75	~small stones	1.00	~cutbanks cave	1.00
	(limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~wetness	0.12					~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)						(very limited)		(very limited)	
73179:										
Viraton-----	Limited		Very limited		Very limited		Very limited		Very limited	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~small stones	1.00	~wetness	1.00
	(limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	0.45	~excess fines	1.00	~excess fines	1.00	~dense layer	0.99	~cutbanks cave	1.00
	(moderately limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
	~low strength	0.22					~wetness	0.82	~too clayey	1.00
	(slightly limited)						(limited)		(very limited)	
Wilderness-----	Limited		Very limited		Possible source		Very limited		Very limited	
	~wetness	0.64	~excess fines	1.00	~possible source	0.50	~small stones	1.00	~wetness	1.00
	(limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	0.36	~excess fines	1.00	~possible source	0.25	~dense layer	0.99	~cutbanks cave	1.00
	(moderately limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
							~wetness	0.64	~dense layer	0.99
							(limited)		(limited)	
73180:										
Gatewood-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~wetness	0.26	~too clayey	1.00
	(very limited)						(slightly limited)		(very limited)	
Gasconade-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~shrink-swell	1.00	~excess fines	1.00	~possible source	0.25	~small stones	1.00	~too clayey	0.62
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(limited)	
							~too clayey	1.00	~cutbanks cave	0.29
							(very limited)		(slightly limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73181:										
Useful-----	Very limited		Very limited		Very limited		Limited		Limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	0.63	~wetness	0.99
	(very limited)		(thickest layer)		(bottom layer)		(limited)		(limited)	
	~shrink-swell	1.00	~excess fines	1.00	~excess fines	1.00	~too acid	0.12	~slope	0.63
	(very limited)		(bottom layer)		(thickest layer)		(slightly limited)		(limited)	
	~depth to bedrock	0.10					~wetness	0.03	~too clayey	0.51
	(slightly limited)						(slightly limited)		(moderately limited)	
Gateway-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~wetness	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~slope	0.63	~too clayey	1.00
	(very limited)						(limited)		(very limited)	
73182:										
Lebanon-----	Very limited		Very limited		Very limited		Limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer	0.96	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(limited)		(very limited)	
	~wetness	0.82	~excess fines	1.00	~excess fines	1.00	~too clayey	0.88	~cutbanks cave	1.00
	(limited)		(bottom layer)		(thickest layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~wetness	0.82	~dense layer	0.96
	(moderately limited)						(limited)		(limited)	
73183:										
Scholten-----	Limited		Very limited		Possible source		Very limited		Very limited	
	~wetness	0.76	~excess fines	1.00	~possible source	0.25	~small stones	1.00	~wetness	1.00
	(limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~possible source	0.25	~dense layer	1.00	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(limited)		(very limited)	
							~wetness	0.76	~dense layer	1.00
							(limited)		(limited)	
Tonti-----	Very limited		Very limited		Possible source		Limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~dense layer	0.99	~wetness	1.00
	(very limited)		(thickest layer)		(thickest layer)		(limited)		(very limited)	
	~wetness	0.76	~excess fines	1.00	~possible source	0.50	~wetness	0.76	~cutbanks cave	1.00
	(limited)		(bottom layer)		(bottom layer)		(limited)		(very limited)	
	~shrink-swell	0.45					~too clayey	0.55	~too clayey	1.00
	(moderately limited)						(moderately limited)		(very limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73184:										
Knobby-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	0.08	~excess fines	1.00	~possible source	0.42	~small stones	1.00	~slope	1.00
	(slightly limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.03					~slope	1.00	~cutbanks cave	0.29
	(slightly limited)						(very limited)		(slightly limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	
73186:										
Bardley-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~too clayey	1.00	~hard bedrock <40"	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~slope	1.00					~depth to bedrock	1.00	~too clayey	1.00
	(very limited)						(very limited)		(very limited)	
Alred-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~slope	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.75	~small stones	1.00	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(very limited)		(very limited)	
							~large surface stones	1.00	~too clayey	0.80
							(very limited)		(limited)	
Gasconade-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	1.00	~excess fines	1.00	~possible source	0.25	~slope	1.00	~slope	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~shrink-swell	1.00					~small stones	1.00	~too clayey	0.62
	(very limited)						(very limited)		(limited)	
73187:										
Bender-----	Very limited		Very limited		Possible source		Very limited		Very limited	
	~depth to bedrock	1.00	~excess fines	1.00	~excess fines	1.00	~slope	1.00	~slope	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~slope	1.00	~excess fines	1.00	~possible source	0.42	~small stones	1.00	~cutbanks cave	1.00
	(very limited)		(bottom layer)		(thickest layer)		(very limited)		(very limited)	
	~large stones	0.09					~depth to bedrock	1.00	~hard bedrock <40"	1.00
	(slightly limited)						(very limited)		(very limited)	
Rock outcrop---	Not rated		Not rated		Not rated		Not rated		Not rated	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
73188:										
Bendavis-----	Very limited		Very limited		Limited		Very limited		Very limited	
	~depth to bedrock (very limited)	1.00	~excess fines (thickest layer)	1.00	~excess fines (bottom layer)	1.00	~small stones (very limited)	1.00	~cutbanks cave (very limited)	1.00
	~wetness (slightly limited)	0.12	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	0.75	~depth to bedrock (very limited)	1.00	~hard bedrock <40" (very limited)	1.00
							~slope (limited)	0.63	~wetness (very limited)	1.00
Poynor-----	Not limited		Very limited		Limited		Very limited		Very limited	
			~excess fines (thickest layer)	1.00	~excess fines (bottom layer)	1.00	~small stones (very limited)	1.00	~too clayey (very limited)	1.00
			~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	0.99	~slope (limited)	0.63	~slope (limited)	0.63
							~large surface stones (slightly limited)	0.13	~cutbanks cave (slightly limited)	0.29
73189:										
Useful-----	Very limited		Very limited		Very limited		Slightly limited		Limited	
	~low strength (very limited)	1.00	~excess fines (thickest layer)	1.00	~excess fines (bottom layer)	1.00	~too acid (slightly limited)	0.12	~wetness (limited)	0.99
	~shrink-swell (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~wetness (slightly limited)	0.03	~too clayey (moderately limited)	0.51
	~depth to bedrock (slightly limited)	0.10							~depth to bedrock (moderately limited)	0.35
Gatewood-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength (very limited)	1.00	~excess fines (thickest layer)	1.00	~excess fines (bottom layer)	1.00	~depth to bedrock (very limited)	1.00	~hard bedrock <40" (very limited)	1.00
	~depth to bedrock (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~too clayey (very limited)	1.00	~wetness (very limited)	1.00
	~shrink-swell (very limited)	1.00					~wetness (slightly limited)	0.26	~too clayey (very limited)	1.00
74634:										
Hartville-----	Very limited		Very limited		Very limited		Limited		Very limited	
	~low strength (very limited)	1.00	~excess fines (thickest layer)	1.00	~excess fines (bottom layer)	1.00	~wetness (limited)	0.86	~wetness (very limited)	1.00
	~shrink-swell (very limited)	1.00	~excess fines (bottom layer)	1.00	~excess fines (thickest layer)	1.00	~too clayey (limited)	0.83	~cutbanks cave (slightly limited)	0.29
	~wetness (limited)	0.86					~too acid (slightly limited)	0.06	~too clayey (slightly limited)	0.18

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
74652:										
Lecoma-----	Moderately limited		Very limited		Very limited		Not limited		Slightly limited	
	~shrink-swell	0.45	~excess fines	1.00	~excess fines	1.00			~cutbanks cave	0.29
	(moderately limited)		(thickest layer)		(bottom layer)				(slightly limited)	
	~low strength	0.22	~excess fines	1.00	~excess fines	1.00				
	(slightly limited)		(bottom layer)		(thickest layer)					
74653:										
Racoon-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~wetness	1.00	~excess fines	1.00	~excess fines	1.00			~flooding	0.60
	(very limited)		(bottom layer)		(thickest layer)				(moderately limited)	
	~shrink-swell	0.17							~cutbanks cave	0.29
	(slightly limited)								(slightly limited)	
Freeburg-----	Very limited		Very limited		Very limited		Limited		Very limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	0.71	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(limited)		(very limited)	
	~wetness	0.71	~excess fines	1.00	~excess fines	1.00	~too clayey	0.33	~flooding	0.60
	(limited)		(bottom layer)		(thickest layer)		(moderately limited)		(moderately limited)	
	~shrink-swell	0.39							~cutbanks cave	0.29
	(moderately limited)								(slightly limited)	
74656:										
Deible-----	Very limited		Very limited		Very limited		Very limited		Very limited	
	~wetness	1.00	~excess fines	1.00	~excess fines	1.00	~wetness	1.00	~wetness	1.00
	(very limited)		(thickest layer)		(bottom layer)		(very limited)		(very limited)	
	~low strength	0.78	~excess fines	1.00	~excess fines	1.00			~too clayey	0.51
	(limited)		(bottom layer)		(thickest layer)				(moderately limited)	
									~cutbanks cave	0.29
									(slightly limited)	
75375:										
Horsecreek-----	Very limited		Very limited		Very limited		Not limited		Moderately limited	
	~low strength	1.00	~excess fines	1.00	~excess fines	1.00			~flooding	0.60
	(very limited)		(thickest layer)		(bottom layer)				(moderately limited)	
			~excess fines	1.00	~excess fines	1.00			~cutbanks cave	0.29
			(bottom layer)		(thickest layer)				(slightly limited)	
75376:										
Cedargap-----	Not limited		Very limited		Limited		Very limited		Very limited	
			~excess fines	1.00	~excess fines	0.75	~small stones	1.00	~cutbanks cave	1.00
			(thickest layer)		(bottom layer)		(very limited)		(very limited)	
			~excess fines	1.00	~excess fines	0.75	~area reclaim	1.00	~flooding	0.60
			(bottom layer)		(thickest layer)		(very limited)		(moderately limited)	
							~too clayey	0.33	~too clayey	0.60
							(moderately limited)		(moderately limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
75388:										
Kaintuck-----	Not limited		Very limited		Very limited		Moderately limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~too sandy	0.40	~cutbanks cave	1.00
			(thickest layer)		(bottom layer)		(moderately limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00			~flooding	0.60
			(bottom layer)		(thickest layer)				(moderately limited)	
Relfe-----	Not limited		Very limited		Possible source		Very limited		Very limited	
			~excess fines	1.00	~possible source	0.50	~small stones	1.00	~cutbanks cave	1.00
			(thickest layer)		(thickest layer)		(very limited)		(very limited)	
			~excess fines	1.00	~possible source	0.25	~area reclaim	1.00	~flooding	0.60
			(bottom layer)		(bottom layer)		(very limited)		(moderately limited)	
75391:										
Possumtrot----	Not limited		Very limited		Very limited		Limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~area reclaim	0.92	~cutbanks cave	1.00
			(thickest layer)		(thickest layer)		(limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00	~too sandy	0.60	~flooding	0.60
			(bottom layer)		(bottom layer)		(limited)		(moderately limited)	
							~too acid	0.12		
							(slightly limited)			
75398:										
Kaintuck-----	Not limited		Very limited		Very limited		Moderately limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~too sandy	0.40	~cutbanks cave	1.00
			(thickest layer)		(bottom layer)		(moderately limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00			~flooding	0.60
			(bottom layer)		(thickest layer)				(moderately limited)	
75412:										
Razort-----	Not limited		Very limited		Very limited		Limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~area reclaim	0.68	~cutbanks cave	1.00
			(thickest layer)		(thickest layer)		(limited)		(very limited)	
			~excess fines	1.00	~excess fines	1.00	~small stones	0.50	~flooding	0.60
			(bottom layer)		(bottom layer)		(moderately limited)		(moderately limited)	
75413:										
Relfe-----	Not limited		Very limited		Possible source		Very limited		Very limited	
			~excess fines	1.00	~possible source	0.50	~small stones	1.00	~cutbanks cave	1.00
			(thickest layer)		(thickest layer)		(very limited)		(very limited)	
			~excess fines	1.00	~possible source	0.25	~area reclaim	1.00	~flooding	0.60
			(bottom layer)		(bottom layer)		(very limited)		(moderately limited)	

Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill		Source for sand		Source for gravel		Source for topsoil		Shallow excavations	
	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value	Limitation	Value
75414:										
Wideman-----	Not limited		Very limited		Possible source		Very limited		Very limited	
			~excess fines	1.00	~excess fines	1.00	~area reclaim	1.00	~cutbanks cave	1.00
			(bottom layer)		(thickest layer)		(very limited)		(very limited)	
			~excess fines	0.99	~possible source	0.25	~too sandy	0.87	~flooding	0.60
			(thickest layer)		(bottom layer)		(limited)		(moderately limited)	
99000:										
Pits, quarries-	Not rated		Not rated		Not rated		Not rated		Not rated	
99001:										
Water-----	Not rated		Not rated		Not rated		Not rated		Not rated	
99003:										
Miscellaneous										
water-----	Not rated		Not rated		Not rated		Not rated		Not rated	