Blue River Valley								
Geologic Period	Phase	Stratigraphic Unit		Hydrogeologic Unit				
	Modern	Alluvium and outwash deposits		Alluvial Aquifer				
Quaternary	Glaciation	Glacial deposits		Glacial deposits				
		Older stream and outwash terrace deposits		Local perched aquifer				
Neogene	Extension	Troublesome Formation		Local aquifer				
		Volcanic rocks		Volcanics				
Paleogene	Transition	Paleogene and Cretaceous intrusive rocks		Crystalline bedrock				
	Laramide	Diama Chala						
	Interior Seaway	e e	Smoky Hill Member					
Cretaceous		Niobrar Benton Group	Fort Haves Limestone	Pierre confining				
			Carlile Shale	unit				
			Greenhorn Limestone					
			Graneros Shale					
		Dakota Sandstone		Dakota Aquifer				
Jurassic	Mesozoic Sandstones	Morrison Formation		Morrison Aquifer				
		Entrada Sandstone		Entrada Aquifer				
Triassic		Chinle Formation		Chinle confining unit				
Permian	Ancestral Rocky Mountains	Maroon Formation		Maroon-Minturn Aquifer				
		Minturn Formation						
Pennsylvanian								
Mississippian		No strata						
Devonian		Chaffee Group						
Silurian	Paleozoic Carbonates			Mississippian-				
Ordovician	Carbonates	Manitou Formation		Cambrian carbonate aquifer				
Cambrian		Dotsero Formation and Sawatch Sandstone						
Precambrian	Precambrian	Crystalline ro metamorphi region	Crystalline bedrock					
1 aule 128-05-01.	Dive River Valle	y straugraph						

	Blue River Valley						
Geologic Period	Phase	Stratigraphic Unit		Unit Thickness (ft)	Physical Characteristics	Hydrogeologic Unit	
	Modern	Alluvium and outwash deposits		>35	Well to poorly-sorted, uncemented sands, silts and gravels along modern streams and as valley-fill	Alluvial Aquifer	
Quaternary Glaciation		Glacial deposits		0-440	Unstratified sand, gravel, and silt within, and at the mouths of, mountain valleys of the Mosquito and Continental Divide ranges	Glacial deposits	
		Older stream and outwash terrace deposits		0-50	Well to poorly-sorted, uncemented sands, silts and gravels on bedrock- cored terraces above modern streams	Local perched aquifer	
Neogene	Extension	Troublesome Formation Volcanic rocks		0-930	Clay, sand, and gravel	Local aquifer	
	Extension				Flows of vesicular basalt near Green Mountain Reservoir	Volcanics	
Paleogene	Transition Laramide	Paleogene and Cretaceous intrusive rocks			Intermediate to felsic bodies intruded between 56 and 70 million years ago	Crystalline bedrock	
Cretaceous Interior Seaway		Pierre Shale		up to 5,200	Shale, siltstone with interbedded sandstone		
		ara tion	Smoky Hill Member	~540	Chalk interbedded with chalky shale, gray shale, and limestone	Pierre confining	
		Niobr	Fort Hayes Limestone		Chalky limestone and marl interbedded with thin shale		Marine sand
	Benton Group	Carlile Shale Greenhorn Limestone Graneros Shale	~440	Shale, limestone and beds of bentonite	unit		
		Dakota Sanc	dstone	170-225	Fine-grained, thin bedded to massive sandstone, interbedded with shale	Dakota Aquifer	
luraccia		Morrison Formation		180-260	Gray to greenish-gray and maroon with beds of sandstone, limestone, siltstone and conglomerate	Morrison Aquifer	
JULASSIC	Mesozoic Sandstones	Entrada San	Entrada Sandstone		Fine- to medium-grained light gray to pale yellow-gray and white sandstone with shaley lenses and local basal conglomerate	Entrada Aquifer	
Triassic		Chinle Formation		131-164	Gray-orange and reddish-orange to dark-red to pale-pink and greenish- gray silty shale, siltstone, and fine-grained silty sandstone	Chinle confining unit	
Permian	Ancestral Rocky Mountains	Maroon Formation		up to 3,800	Light reddish-gray, dark red, and grayish-purple calcareous arkosic sandstone, conglomerate, micaceous siltstone and shale, and limestone	Maroon-Minturn Aquifer	
Pennsylvanian		Minturn Formation		up to 6,000	Greelight gray-pink, olive drab, grayish green, light gray to reddish-gray sandstone and conglomerate interbedded with gray, black and grayish tan siltstone and shale and gray fine-grained fossiliferous limestone and dolomite		
Mississippian		No strata					
Devonian		Chaffee Group		~66	Quartz sandstone with conglomerate in lower part, laminated dolomite in upper part		
Silurian	Paleozoic Carbonates					Mississippian-	
Ordovician		Manitou Formation		~89	Dark- to light-gray bedded dolomite with grayish- pink to grayish-red dolomite beds near top	Cambrian carbonate aquifer	
Cambrian		Dotsero Formation and Sawatch Sandstone		~180	Quartz sandstone and dolomitic sandstone with shale partings, arkosic conglomerate at base		
Precambrian	Precambrian	Crystalline rocks of igneous and metamorphic origin in mountainous region					
Table 12a-05-01.	Blue River Valle	ey stratigraph	hic chart, detailed. Colora	do Geological S	urvey ON-010 Colorado Groundwater Atlas.		
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Hydrologic Characteristics
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stone members and limestone beds may supply water