Middle Park								
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				
		Grouse Mountain Basalt		Volcanics				
Neogene	Extension Troublesome Formation		Formation	Troublesome Aquifer				
Paleogene	Transition	Rabit Ears Volcanics		Volcanics				
		White River Formation		White River Aquifer				
	Laramide	Middle Park Formation	Middle Park Formation	Middle Park Aquifer				
			Windy Gap Volcanic Member	Volcanics				
	Interior Seaway	Pierre Shale		Pierre confining unit				
		Niobrara Formation						
Cretaceous		Benton Group						
		Dakota Sands	Dakota Aquifer					
Jurassic		Morrison For	Morrison Aquifer					
Triassic	Sandstones							
Permian	Ancostral							
Pennsylvanian	Rocky Mountains	No strata						
Mississippian	Stable							
Devonian								
Silurian								
Ordovician								
Cambrian								
Precambrian	Precambrian	Crystalline ro metamorphic region	Crystalline bedrock					

		Middle Park					
Geologic Period	Phase	Stratigraphic Unit		Unit Thickness (ft)	Physical Characteristics	Hydrogeologic Unit	
	Modern	Alluvium and outwash deposits			Well to poorly-sorted, uncemented sands, silts and gravels along modern streams and as valley-fill	Alluvial Aquifer	
Quaternary		Glacial depos	sits		Unstratified sand, gravel, and silt within, and at the mouths of, mountain valleys	Glacial deposits	
	Glaciation	Older stream deposits	and outwash terrace		Well to poorly-sorted, uncemented sands, silts and gravels on bedrock- cored terraces above modern streams	Local perched aquifer	
		Grouse Mountain Basalt			Basalt flow caprock	Volcanics	
Neogene	Extension	Troublesome	e Formation	0-1,000	Tuffaceous siltstone, fine-grained sandstone, glass shards, weathered ash, and conglomerate	Troublesome Aquifer	Unconfii siltstone
	Tropoition	Rabit Ears Volcanics		0 - 1,500	Interbeded tuff, tuff breccia and volcanic breccia interlayered with flows of intermediate composition	f Volcanics	
Paleogene	Iransition	White River Formation			Continental lakebed deposit	White River Aquifer	Limited
	Laramide	e Park ation	Middle Park Formation	2,500-5,000	Sandstone, conglomerate and shale	Middle Park Aquifer	
		Middl Form	Windy Gap Volcanic Member	0-700	Gray volcanic breccia, conglomearte and andesitic flows	Volcanics	
		Pierre Shale		200-5,000	Dark-gray to brown shale, sandstone 1,500 feet above base		
Interior		Niobrara Formation		400-500	Calcareous shale and limestone	Pierre confining unit	Sandsto
Cretaceous In Se	Seaway	Benton Group		0->300	Calcareous shale and limestone		
		Dakota Sandstone		140-400	Lower sandstone, local basal conglomerate, middle shale, and upper sandstone	Dakota Aquifer	
Jurassic	Mosozois	Morrison Formation		25-400	Variegated clay shale and mudstone, sandstone at base and top	Morrison Aquifer	Limited
Triassic	Sandstones						
Permian							
Pennsylvanian	Ancestral Rocky Mountains						
Mississippian		No strata					
Devonian							
Silurian	Stable						
Ordovician							
Cambrian							
Precambrian	Precambrian	Crystalline rocks of igneous and metamorphic origin in mountainous region				Crystalline bedrock	
Table 12a-06-02.	Middle Park stra	atigraphic cha	art, detailed. Colorado Geo	ological Survey (DN-010 Colorado Groundwater Atlas.	and 110 1 (2011	7)

Hydrologic Characteristics
ned aquifer where tuffaceous siltstone is absent, confined where is present
aquifer
ne and limestone beds might yield limited water
aquifer