Colorado Headwaters Laramide									
Geologic Period	Phase	Stratigraphic Unit		Hydrogeologic Unit					
Quaternary	Modern- Glaciation	Alluvium asso rivers	Alluvial Aquifers						
	Extension	Grouse Mountain Basalt		Volcanics					
Neogene		Troublesome- North Park Formations		Troublesome- North Park Aquifer					
Paleogene	Transition	Rabit Ears Volcanics		Volcanics					
		White River Formation		White River Aquifer					
	Laramide	Coalmont Fo	Coalmont Aquifer						
		Middle Park Formation	Middle Park Formation	Middle Park Aquifer					
			Windy Gap Volcanic Member	Volcanics					
	Interior Seaway		Pierre Shale	Pierre confining unit					
Cretaceous		Regional Cret dominated fo hydrogeologi confining uni	Colorado Piedmont Region						
Jurassic		Multiple sedimentary units deposited							
Triassic	Mesozoic Sandstones	in the stable present that							
Permian	Ancestral	Nia atuata							
Pennsylvanian	Rocky Mountains	No strata							
Mississippian									
Devonian									
Silurian	Paleozoic Carbonates	No strata							
Ordovician									
Cambrian									
Precambrian	Precambrian	Crystalline ro metamorphio region	Crystalline bedrock						
Table 11b-02-08-01. Colorado Headwaters Laramide Basin stratigraphic chart.									

Colorado Headwaters Laramide								
Geologic Period	Phase	Stı	Stratigraphic Unit (ft)		Physical Characteristics	Hydrogeologic Unit	Hydrologic Characteristics	
Quaternary	Modern- Glaciation	Alluvium ass	ociated with present river	5				
		Grouse Mountain Basalt			Basalt flow caprock			
Neogene	Extension		Troublesome- North Park Formations		Tuffaceous siltstone, fine grained sandstone, volcanic ash, conglomerate, volcanic fows and tuff breccia	North Park	Unconfined aquifer where tuffaceous siltstone is absent, confined where siltstone is present; breccia, sandstone, conglomerate, and ash yield water to springs	
Paleogene	Transition	Rabit Ears Volcanics White River Formation		0 - 1,500 Interbeded tuff, tuff breccia and volcanic breccia interlayered with flows of intermediate composition		Volcanics		
	Hansition				Continental lakebed deposit	White River Aquifer	Limited aquifer	
	Laramide	Coalmont Formation		6,500	Conglomerate, sandstone, siltstone, and shale with some coal; poorly to moderately consolidated. Predominately shale in central part of basin	Coalmont Aquifer	Large yields of potable water can be expected from poorly consolidated coarse-grained sandstone and conglomerate; will have limited well yield where shale predominates; water quality degrades with depth of aquifer	
		Middle Park Formation	Middle Park Formation	2,500-5,000	Upper thick member of grit, sandstone, conglomerate and shale; lower member of volcanic material	Middle Park Aquifer		
		Middl	Windy Gap Volcanic Member	0-700	Gray volcanic breccia, conglomerate and andesitic flows	Volcanics		
Cretaceous	Interior		Pierre Shale	200-4,500	Shale, siltstone with interbedded sandstone	Pierre confining unit	Sandstone layers might yield limited water	
	Seaway	Regional Cretaceous Seaway shale-dominated formations form multiple hydrogeologic units, most are confining units						
Jurassic 	Mesozoic	Multiple sedimentary units deposited in the stable continent interior may be present that may form aquifers		Colorado Piedmont Region				
Triassic	Sandstones							
Permian Pennsylvanian	Ancestral Rocky	No strata						
Mississippian	Mountains							
Devonian		No strata						
Silurian	Paleozoic Carbonates							
Ordovician								
Cambrian								
Precambrian	Precambrian	Crystalline rocks of igneous and metamorphic origin in mountainous region						
Table 11b-02-08-01. Colorado Headwaters Laramide Basin stratigraphic chart, detailed. Colorado Geological Survey ON-010 Colorado Groundwater Atlas.								