

APPENDIX B
Hydraulic Conductivity Zones by Model Layer

Table B.1 Calibrated Hydraulic Conductivity Values for Hydrostratigraphic Units

Model Layer	Hydrostratigraphic Unit	Hydraulic Conductivity Zone	Description	Hydraulic Conductivity (ft/day)	
				Horizontal	Vertical
1	San Jose Formation	Tsj	Basin-wide	0.5	0.002
1 to 2	Animas and Nacimiento Fms	Tka	Basin-wide	0.01	0.0001
1 to 3	Ojo Alamo Sandstone	Toa	Basin-wide	0.3	0.001
	Kirtland and Fruitland Fms	Kkf			
	Pictured Cliffs Sandstone	Kpc			
1 to 4	Lewis Shale	Kls	Basin-wide	5×10^{-5}	2.5×10^{-6}
1 to 5	Cliff House Sandstone	Kch	Basin-wide	0.05	0.0003
	Menefee Formation	Kmf			
	Point Lookout Sandstone	Kpl			
	Crevasse Canyon Formation	Kcc			
1 to 5	Mancos Shale	Km1	Basin margin	1×10^{-4}	1×10^{-4}
6		Km2	Upper Mancos	3×10^{-3}	5×10^{-6}
1 to 7		Km3	Lower Mancos	5×10^{-5}	2.5×10^{-6}
1 to 6	Gallup Sandstone	Kg1	Southern basin	0.25	0.0025
6		Kg2	Roca Honda permit area based on RHR pump test	1.5	0.002
7 to 8	Dakota Sandstone	Kd1	Basin-wide	0.1	0.0001
1 to 8		Kd2	Ambrosia Lake sub-district	0.1	0.002
7 to 8		Kd3	Rio San Jose River	1	0.001
9	Brushy Basin Member of Morrison Formation	Jmbb	Basin-wide	3×10^{-3}	5×10^{-6}
10	Westwater Canyon Member of Morrison Formation	Jmw1	Northern basin	0.02	0.0002
		Jmw2	Southern basin	1.25	0.00125
		Jmw3	Ambrosia Lake sub-district	1.6	0.002
		Jmw4	Roca Honda permit area based on RHR pump test	0.5	0.001
		Jmw5	Gulf Mt. Taylor mine area based on historical dewatering rates	3	0.003
6 to 10	Mt. Taylor volcanic rocks	Tnv1	Volcanics in the aquifer	0.1	0.001
		Tmv1	Basalt and andesite flows in the aquifer		
		Tnv2	Volcanics in the aquifer	1×10^{-4}	5×10^{-6}
		Tnv2	Basalt and andesite flows in the aquitard		



















