

Table A1. Unit Thicknesses at Kanarra Creek (all values in meters)

Unit	Formation	Member	T _{min}	T _{max}	Sources	This Study
Kw	Wahweap	—	—	—	Averitt (1962)	—
Kst	Straight Cliffs	—	—	—	Averitt (1962)	188
Kn	Naturita	—	—	45 +	Biek and Hayden (2016)	258 ¹
Kcm	Cedar Mountain	—	—	8	Biek and Hayden (2016)	—
Jcw	Carmel	Windsor	45	60	Biek and Hayden (2016)	—
Jep	Carmel	Pariah River	37	45	Biek and Hayden (2016)	—
Jcx	Carmel	Crystal Creek	60	75	Biek and Hayden (2016)	—
Jcc	Carmel	Coop Creek	150	165	Biek and Hayden (2016)	—
Jtm	Temple Cap	—	1	9	Biek and Hayden (2016)	—
Jcu	Carmel, Temple Cap	—	293	354	Biek and Hayden (2016)	404 ²
Jn	Navajo Sandstone	—	550	600	Biek and Hayden (2016)	634
Jkc	Kayenta Formation	Cedar City Tongue	60	90	Biek and Hayden (2016)	60
Jns	Navajo Sandstone	Shurtz Tongue	0	30	Biek and Hayden (2016)	25
Jkm	Kayenta Formation	Main Body	120	150	Biek and Hayden (2016)	120
Jks	Kayenta Formation	Springdale Sandstone	30	45	Biek and Hayden (2016)	52
JTRm	Moenave Formation	Dinosaur Canyon Member	90	150	Biek and Hayden (2016)	129
TRcu	Chinle Formation	Petrified Forest Member	90	120	Biek and Hayden (2016)	122
TRcs	Chinle Formation	Shinarump Conglomerate	30	60	Biek and Hayden (2016)	41
TRcl	Chinle Formation	Lower	—	—	Knudsen (2014a)	36
TRmu	Moenkopi Formation	Upper Red	60	75	Biek and Hayden (2016)	93
TRms	Moenkopi Formation	Shnabkaib Member	120	150	Biek and Hayden (2016)	130
TRmm	Moenkopi Formation	Middle Red Member	120	150	Biek and Hayden (2016)	135
TRmv	Moenkopi Formation	Virgin Member	45	60	Biek and Hayden (2016)	64
TRml	Moenkopi Formation	Lower Red ember	—	75	Biek and Hayden (2016)	86
TRmt	Moenkopi Formation	Timpoweap Member	—	37	Biek and Hayden (2016)	68
TRmr	Moenkopi Formation	Rock Canyon Conglomerate	0	27	Biek and Hayden (2016)	18
Pkh	Kaibab Formation	Harrisburg	—	30	Biek and Hayden (2016)	12
Pkf	Kaibab Formation	Fossil Mountain	—	60 +	Biek and Hayden (2016)	70 ³
Ptw	Toroweap Formation	Woods Ranch	37	76	Hurlow and Biek (2003)	83
Ptbs	Toroweap Formation	Brady Canyon/Seligman	76	87	Hurlow and Biek (2003)	53
Pqu	Queantoweap Sandstone	Upper Member	400	500	Hurlow and Biek (2003)	407
Pql	Queantoweap Sandstone	Lower Member	37	245	Hurlow and Biek (2003)	241
Pp	Pakoon Formation	—	—	75+	Hurlow and Biek (2003)	90
Pec	Callville Limestone	—	—	85	Hurlow and Biek (2003)	85
Mr	Redwall Limestone	—	—	370	Biek and others (2010)	370
Dmp	Muddy Peak Dolomite	Pinnacle Unit	—	49	Hintze (1986)	49
Dms	Muddy Peak Dolomite	Slope Forming Unit	—	158	Hintze (1986)	159
Cnd	Nopah Dolomite	—	114	396	Steed (1980), Hintze (1986)	114
Cbk	Bonanza King	—	762	—	Hintze (1986)	762
Cba	Bright Angel Shale	—	75	100	Biek and others (2010)	90
Ct	Tapeats Sandstone	—	—	400	Biek and others (2010)	400

¹ Due to inaccessibility and the thinness of Kcm, we do not divide the Kcm and Kn at Kanarraville

² Similarly, due to poor contact visibility and accessibility we do not divide the Carmel and Temple Cap Formations

³ Beyond Pkf, none of the following strata are exposed at Kanarraville