

SITE_NAME	SAMPLE_NO	LAB NO	GRAIN TYPE	GRAIN SIZE (μm)	EQUIVALENT DOSE (Gray)
Cumberland River 8	OSL1	BG4298	quartz	150-100	15.35 ± 0.55
Cumberland River 8	OSL2	BG4299	quartz	100-63	15.09 ± 0.56
Cumberland River 10	OSL1	BG4300	quartz	150-100	13.25 ± 0.51
Skillet Fork 6	OSL1	BG4301	quartz	150-100	19.10 ±1.08
Clark River 1	OSL1	USGS	quartz	150-125	not available
Clark River 1	OSL2	USGS	quartz	150-125	not available

U (ppm)	Th (ppm)	K (%)	H2O (%)	COSMIC DOSE RATE (mGray/yr)
3.16 ± 0.01	8.13 ± 0.01	1.28 ± 0.01	10 ± 2	0.14 ± 0.01
3.07 ± 0.01	7.93 ± 0.01	1.25 ± 0.01	10 ± 2	0.14 ± 0.01
2.62 ± 0.01	6.68 ± 0.01	1.03 ± 0.01	10 ± 2	0.14 ± 0.01
3.44 ± 0.01	9.28 ± 0.01	1.63 ± 0.01	10 ± 2	0.16 ± 0.01
2.34 ± 0.05	8.71 ± 0.06	1.72 ± 0.05	20 ± 1	0.16 ± 0.02
3.19 ± 0.06	12.0 ± 0.07	1.47 ± 0.07	17 ± 1	0.16 ± 0.02

TOTAL DOSE RATE (mGray/yr)	OSL AGE (yr before 2010)	NOTES	REFERENCES
2.37 ± 0.12	6200 ± 385	Lower cutbank; from silt layer in interbedded	Tuttle et al., 201
2.41 ± 0.12	6245 ± 395	Lower cutbank; 20 cm below OSL1; same con	Tuttle et al., 201
2.04 ± 0.12	6490 ± 410	Lower cutbank; from silt layer in interbedded	Tuttle et al., 201
2.93 ± 0.14	6545 ± 500	Middle cutbank; from silt between two peat l	Tuttle et al., 201
2.45 ± 0.02	11128 ± 294	Lower cutbank; upper contact of sand blow	Mahan, unpu
2.73 ± 0.02	11457 ± 317	Lower cutbank; lower contact of sand blow	Mahan, unpubli

.7 (USGS G12AP20068)

.7 (USGS G12AP20068)

.7 (USGS G12AP20068)

.7 (USGS G12AP20068)