

Table 29. Descriptions of sediments sampled along Buffalo Creek and Boveren River, Cleveland County and Lincoln County, N.C., and Cherokee County, S.C.

Block	Station number	Sample number	Material sampled	Depth of sample below surface of flood plain (feet)	Screening characteristics										Minerals in concentrate																							
					Plus 1/4 inch			Minus 1/4 - plus 1/8 inch		Minus 1/8 inch		Weight of concentrate (grams)	Sieve fraction		Monazite		Ilmenite		Rutile		Zircon		Garnet		Kyanite		Sillimanite		Magnetite	Hematite	Staurolite	Tourmaline	Amphibole, pyroxene, biotite	Epidote	Quartz	Others		
					Volume ratio	Composition (percent)	Maximum intermediate dimension (inches)	Volume ratio	Composition (percent)	Sand	Silt and clay		Mesh	Percent of concentrate	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard										
																																					Percent of concentrate	
A	1	51-KR-56	Riffle sand	3 1/2	No data	65 gty, 35 rock frags	No data	See + 1/4	26	142.2	Total	100	30	8.5	54	15.3	—	—	2	0.6	3	0.9	—	—	1	0.3	—	—	5	—	1	—	4					
	2	51-KR-55A	Riffle gravel	3	No data	60 rock frags, 40 gty	No data	See + 1/4	12	281.2	Total	100	18	10.1	54	30.3	—	—	—	—	3	1.7	—	—	6	3.4	—	—	—	1	—	—	18					
	3	51-KR-54	Riffle gravel		No data		No data	No data	15	49.9	Total	100	22	2.2	49	4.9	—	—	—	—	6	0.6	—	—	7	0.7	1	—	—	1	1	—	13					
		51-KR-55B	Riffle gravel	2 1/2	No data		No data	No data	13	16.3	Total	100	9	0.3	41	1.3	1	0.03	—	—	6	0.2	—	—	13	0.4	1	—	6	2	—	—	21					
	4	51-KR-5	Riffle sand		No data	45 rock frags, 40 gty, 15 fels	No data	See + 1/4	24	28.6	Total	100	19	1.1	54	3.1	tu	—	1	0.06	3	0.2	—	—	7	0.4	tu	—	tu	tu	—	—	16					
	5	51-KR-2	Bank silt	0	—	—	—	—	9	5.05	Total	100	10	0.1	42	0.4	3	0.03	8	0.08	6	0.06	—	—	11	0.1	2	—	tu	2	—	—	16					
		51-KR-3	Riffle sand		No data	50 rock frags, 35 gty, 15 fels	No data	See + 1/4	20	68.2	Total	100	18	2.4	50	6.8	tu	—	2	0.3	6	0.8	—	—	8	1.1	tu	—	tu	1	—	—	15					
		51-KR-4	Riffle gravel		No data	50 rock frags, 35 gty, 15 fels	No data	See + 1/4	14	84.2	Total	100	20	3.4	38	6.4	1	0.2	—	—	9	1.5	—	—	2	0.3	tu	—	—	tu	—	—	30					
B	6	51-KR-6	Bank silt	0	—	—	—	—	5	11.8	Total	100	8	0.2	48	1.2	4	0.1	2	0.05	4	0.1	—	—	22	0.5	—	—	1	—	—	—	11					
		51-KR-7	Bank gravel	5	No data	60 gr, 20 gty, 20 fels	No data	See + 1/4	5	127.5	Total	100	5	1.5	63	19.0	1	0.3	tu	—	1	0.3	—	—	7	2.1	tu	—	tu	tu	—	—	23					
		51-KR-8	Riffle sand		No data		No data	No data	20	86.4	Total	100	4	0.7	40	6.9	1	0.2	—	—	23	4.0	—	—	7	1.2	tu	—	1	tu	—	—	24					
	7	51-KR-9	Riffle sand		No data		No data	No data	27	14.2	Total	100	5	0.1	30	0.8	1	0.03	2	0.06	19	0.5	—	—	7	0.2	1	—	—	tu	—	—	35					
	8	51-KR-10	Bank silt	0	—	—	—	—	6	6.9	Total	100	9	0.1	63	0.9	1	0.01	1	0.01	11	0.2	—	—	5	0.07	1	—	tu	tu	—	—	9					
		51-KR-11	Riffle sand	3 1/2	No data		No data	No data	32	14.6	Total	100	5	0.1	41	1.2	tu	—	2	0.06	20	0.6	—	—	8	0.2	—	—	—	1	—	—	23					
		51-KR-12	Riffle sand		No data		No data	No data	25	74.5	Total	100	4	0.6	43	6.4	1	0.1	tu	—	24	3.6	—	—	6	0.9	tu	—	—	—	—	—	22					
	9	51-KR-13	Riffle gravel		No data	60 rock frags, 40 gty	No data	See + 1/4	12	30.2	Total	100	6	0.4	29	1.7	tu	—	—	—	16	1.0	—	—	1	0.06	1	—	tu	—	—	—	41					
		51-KR-14	Bank silt	0	—	—	—	—	3	6.2	Total	100	10	0.1	54	0.7	2	0.03	23	0.3	5	0.07	—	—	2	0.03	—	—	—	—	—	—	4					
		51-KR-15	Bank clay	1	65 gty, 35 fels		No data	See + 1/4	5	24.9	Total	100	20	1.2	35	2.1	2	0.1	5	0.3	28	1.6	—	—	1	0.06	—	—	—	—	—	—	9					
		51-KR-16	Riffle sand		No data		No data	No data	33	9.9	Total	100	7	0.1	45	0.9	1	0.02	3	0.06	14	0.3	—	—	9	0.2	—	—	—	—	—	—	21					
C	10	51-KR-21	Riffle sand		No data		No data	No data	19	71.9	Total	100	7	1.0	57	8.2	3	0.4	1	0.1	9	1.3	9	1.3	11	1.6	tu	—	tu	1	—	—	2					
D	11	51-KR-78	Riffle gravel	3 1/2	No data		No data	No data	9	21.8	Total	100	8	0.3	40	1.7	—	—	1	0.04	24	1.0	—	—	4	0.2	17	—	—	—	—	—	6					
	12	51-KR-17	Riffle gravel		No data		No data	No data	18	131.5	Total	100	15	3.9	48	12.6	1	0.3	1	0.3	26	6.8	—	—	4	1.0	tu	—	—	tu	—	—	5					
		51-KR-18	Riffle sand	4	No data		No data	No data	33	30.5	Total	100	3	0.2	38	2.3	4	0.2	—	—	20	1.2	—	—	24	1.5	tu	—	—	2	—	—	9					
		51-KR-19	Bank silt		No data		No data	No data	2	8.0	Total	100	1	0.02	52	0.9	11	0.2	—	—	13	0.2	—	—	16	0.3	—	—	—	—	—	—	7					
		51-KR-20	Riffle sand		No data		No data	No data	32	7.1	Total	100	3	0.04	25	0.4	2	0.03	—	—	33	0.5	4	0.06	14	0.2	1	—	—	—	—	—	18					
E	9	See block B																																				
	13	51-KR-22	Riffle sand	5	No data		No data	No data	29	38.8	Total	100	7	0.5	48	3.7	3	0.2	3	0.2	13	1.0	3	0.2	11	0.9	tu	—	—	tu	—	—	12					
		51-OT-72A	Riffle sand	9	No data		No data	See + 1/4	24	24.2	Total	100	5	0.2	15	0.7	4	0.2	1	0.05	19	0.9	—	—	49	2.4	4	—	—	—	2	—	—	xenotime				
		51-KR-23	Riffle sand		No data	55 gty, 35 rock frags, 10 fels	No data	See + 1/4	25	66.3	Total	100	10	1.3	42	5.6	1	0.1	2	0.3	20	2.6	1	0.1	5	0.7	2	—	—	tu	—	—	17					
	14	51-KR-24	Bank silt	0	—	—	—	—	1	0.2	Total	100	3	0.001	37	0.01	13	0.005	11	0.004	—	—	—	—	12	0.005	—	—	—	—	—	—	24					
		51-KR-25	Riffle gravel	6	No data	65 gty, 30 rock frags, 5 fels	No data	See + 1/4	17	112.2	Total	100	15	3.4	50	11.2	—	—	—	—	6	1.3	tu	—	3	0.7	3	tu	—	—	—	—	—	23				
		51-KR-26	Riffle sand	6	No data		No data	No data	25	51.2	Total	100	11	1.1	40	4.1	1	0.1	1	0.1	15	1.5	2	0.2	1	0.1	12	tu	1	—	—	—	16					
	15	51-KR-27	Riffle gravel	4 1/2	No data	80 gty, 20 rock frags	No data	See + 1/4	16	64.1	Total	100	14	1.8	54	6.9	2	0.3	4	0.5	14	1.8	tu	—	3	0.4	1	tu	—	—	—	—	8					
		51-KR-28	Riffle sand		No data		No data	No data	34	15.6	Total	100	12	0.4	46	1.4	1	0.03	3	0.09	9	0.3	2	0.06	5	0.2	1	tu	—	—	—	—	21					
	16	51-KR-41	Riffle gravel	3 1/2	No data	50 gty, 40 rock frags, 10 fels	No data	See + 1/4	10	56.7	Total	100	36	4.1	28	3.2	—	—	3	0.3	18	2.0	—	—	1	0.1	—	—	—	—	—	—	14					
F	17	51-KR-29	Riffle gravel	6	No data	60 gty, 35 rock frags, 5 fels	No data	See + 1/4	10	36.1	Total</																											