

Table 27. Descriptions of sediments sampled along Cherokee Creek and other tributaries to the Broad River - continued.

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		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											
																										Volume ratio	Abundance	Percent of concentrate								
Percent of concentrate																																				
D	18	51-PK-70	Riffle sand	2 1/2	No data	60 qtz, 15 peg, 10 fcls, 10 sill sch, 5 bio sch	1/2	No data; see + #	24	7.4	Total	100	14	0.2	45	0.7	4	0.06	3	0.04	5	0.07	—	—	17	0.3	—	—	—	1	—	—	11			
	19	51-PK-67	Riffle gravel	5	No data	70 qtz, 15 sill sch, 10 fcls, 5 bio sch	2 1/2	No data; see + #	17	10.6	Total	100	11	0.2	50	1.1	—	—	1	0.02	6	0.1	—	—	15	0.3	—	—	—	2	—	—	15			
	20	51-PK-66	Riffle sand	6	No data	60 qtz, 20 sill sch, 15 bio sch, 5 fcls		No data; see + #	25	21.0	Total	100	10	0.4	51	2.1	2	0.08	1	0.04	4	0.2	—	—	17	0.7	1	—	—	2	—	—	12			
	21	51-PK-65	Riffle sand	6	No data	60 qtz, 20 fcls, 15 sill sch, 5 peg	1/2	No data; see + #	24	13.9	Total	100	16	0.4	52	1.4	6	0.2	3	0.08	3	0.08	—	—	10	0.3	—	—	—	1	—	—	9			
E	22	51-PK-63	Riffle gravel	4	No data	40 qtz, 25 qtzite, 20 peg, 10 sill sch, 5 bio sch	2 1/2	No data; see + #	13	238.5	Total	100	40	19.0	23	10.9	—	—	4	1.9	3	1.4	—	—	4	1.9	—	—	—	—	—	—	26			
		51-PK-64	Bank gravel	3 1/2	No data	60 qtz, 25 peg, 10 bio sch, 5 sill sch	10	No data; see + #	6	32.9	Total	100	32	2.5	47	3.7	—	—	4	0.3	4	0.3	—	—	4	0.3	—	—	—	—	—	—	9			
	23	51-PK-62	Riffle sand	5	No data	80 qtz, 10 sill sch, 5 fcls, 5 bio sch	2	No data; see + #	21	23.2	Total	100	38	1.8	38	1.8	1	0.05	6	0.3	4	0.2	—	—	6	0.3	1	—	—	—	—	—	6			
	24	No sample																																		
	25	51-PK-60	Riffle sand	7 1/2	No data	60 qtz, 20 sill sch, 10 fcls, 5 peg, 5 bio sch	2 1/2	No data; see + #	20	20.2	Total	100	24	1.0	50	2.0	1	0.04	5	0.2	3	0.1	—	—	8	0.3	—	—	—	1	—	—	8			
		51-PK-61	Bank clay	8	No data	90 organic dragea, 7 qtz, 3 fcls		No data; see + #	13	9.2	Total	100	19	0.4	51	1.1	—	—	9	0.2	9	0.2	—	—	12	0.3	—	—	—	—	—	—	—			
	26	51-PK-59	Riffle gravel	5	No data	55 qtz, 20 bio sch, 15 sill sch, 5 peg, 5 fcls		No data; see + #	18	188.0	Total	100	25	9.4	47	17.6	—	—	4	1.5	6	2.3	—	—	5	1.9	—	—	—	—	—	—	13			
F	No data																																			
G	27	51-PK-58	Riffle gravel	5	No data	75 qtz, 15 bio sch, 7 peg, 3 sill sch	3	No data; see + #	12	5.9	Total	100	8	0.09	35	0.4	—	—	19	0.2	3	0.04	—	—	4	0.05	—	—	—	—	—	—	31			
	28	51-PK-57	Riffle sand	5	No data	65 qtz, 15 sill sch, 10 peg, 5 fcls, 5 bio sch	1	No data; see + #	25	4.1	Total	100	2	0.02	42	0.3	5	0.04	9	0.07	3	0.02	—	—	14	0.1	—	—	—	1	1	—	23			
	29	51-PK-56	Riffle gravel	6	No data	80 qtz, 12 bio sch, 4 sill sch, 2 peg, 2 fcls	6	No data; see + #	9	9.2	Total	100	27	0.5	32	0.6	4	0.07	13	0.2	—	—	—	—	1	0.02	—	—	—	—	1	—	22			
H	No data																																			
I	30	52-PK-38	Riffle gravel	4	17	50 bio sch, 25 qtz, 10 peg, 10 fcls, 5 sill sch	5	3	60 qtz, 15 sill sch, 15 peg, 10 fcls	12	203.3	45	38	6		21		2		to		4		1		to		—	—	—	—	—	4			
												100	55	11		20		1		—		—		2		—	—	—	—	—	—	19				
												170	6	2		2		—		—		—		to		—	—	—	—	—	—	2				
												Total		19	7.7	43	12.4	3	1.2	to	—	4	1.6	3	1.2	2	0.8	1	—	—	—	—	—	25		
	31	52-PK-37	Riffle gravel	3	20	55 bio sch, 25 qtz, 15 peg, 5 sill sch	7	3	55 qtz, 20 sill sch, 10 bio sch, 10 fcls, 5 peg	9	115.7	45	33	11		18		—		1		3		—		—		—	—	—	—	—	—			
												100	55	9		19		3		—		2		—		4		—	—	—	—	—	18			
												170	11	2		4		1		1		—		—		—		—	—	—	—	—	3			
												Total		22	5.1	41	9.5	4	0.9	2	0.5	5	1.2	—	—	4	0.9	1	—	—	—	—	—	21		
	32	52-PK-35	Bank gravel	5 3/4	15	40 peg, 35 qtz, 15 bio sch, 10 fcls	4	1	65 qtz, 15 peg, 10 bio sch, 5 fcls, 5 sill sch	10	3	62.0	45	14	4		6		2		1		1		—		—		—	—	—	—	—			
												100	58	16		23		3		1		5		—		2		—	—	—	—	—	8			
												170	28	5		13		3		2		—		—	2		—	—	—	—	to	3				
												Total		25	3.7	42	6.2	8	1.2	4	0.6	6	0.9	—	—	4	0.6	to	—	—	—	to	11			
		52-PK-36	Riffle gravel	7	21	50 bio sch, 20 qtz, 15 peg, 10 sill sch, 5 musc sch	12	2	55 qtz, 20 sill sch, 10 fcls, 5 bio sch, 5 peg, 5 musc sch	9	171.6	45	39	12		15		—		1		11		—		—		—	—	—	—	—	—			
												100	53	15		15		1		—		3		—		2		—	—	—	—	—	17			
												170	8	1		1		to		to		—		to		—	—	—	—	—	—	—	6			
												Total		28	9.6	31	10.6	1	0.3	1	0.3	14	4.8	—	—	2	0.7	to	—	—	—	—	—	23		
	33	52-PK-33	Riffle gravel	7	20	80 sill sch, 15 qtz, 5 bio sch	6	3	60 sill sch, 20 qtz, 10 bio sch, 5 peg, 5 fcls	11	72.6	45	27	8		13		1		—		5		—		—		—	—	—	—	—	—			
												100	57																							