

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		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	Weight of concentrate (grams)		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																																				
0 cont	51	52-PK-53	Riffle gravel	10	21	75 lior sch, 15 peg, 10 qtz	6	3	35 qtz, 25 lior sch, 15 peg, 15 sill sch, 10 fels	8		115.0	45	32	17		8		1		—		6		—		—		—		—		—		—	
													100	54	14		12		7		—		2		2		4		—		—		—		13	
													170	13	1		2		2		—		1		—		2		—		tr		—		5	
													Total		32	7.3	22	5.0	10	2.3	—	—	9	2.1	2	0.5	6	1.4	1	—	tr		—	—	18	
		52-PK-54	Bank gravel	8 1/2	9	85 lior sch, 10 peg, 5 fels	5	1	40 qtz, 30 fels, 20 lior sch, 10 peg	6	5	2.6	45	8	1		1		—		—		6		—		—		—		—		—		tr	
													100	17	2		4		2		—		6		—		—		—		—		—		3	
													170	75	4		23		11		—		—		—		2		—		—		3		32	
													Total		7	0.04	28	0.2	13	0.08	—	—	12	0.07	—	—	2	0.01	tr		—	3	—	—	35	
	52	52-PK-50	Riffle gravel	6	12	50 lior sch, 20 qtz, 15 peg, 10 sill sch, 5 fels	2	5	40 lior sch, 40 qtz, 10 fels, 5 peg, 5 sill sch	16		192.5	45	39	6		11		3		—		15		2		—		—		—		—		2	
													100	51	10		11		7		—		5		2		3		—		—		—		13	
													170	9	2		2		1		—		tr		—		1		—		—		—		3	
													Total		18	6.9	24	9.2	11	4.2	—	—	20	7.7	4	1.5	4	1.5	1	—	—	—		—	18	
	53	52-PK-52	Riffle gravel	6	15	40 lior sch, 30 peg, 15 qtz, 10 sill sch, 5 fels	8	4	35 sill sch, 25 qtz, 25 lior sch, 10 fels, 5 peg	14		161.8	45	54	11		24		2		—		8		—		—		—		—		—		9	
													100	38	6		10		2		—		tr		—		—		—		1	—	—		18	
													170	7	1		2		tr		—		—		tr		tr		—		tr		—		4	
													Total		18	5.8	36	11.6	4	1.3	1	0.3	8	2.6	tr	—	tr	—	1	—	—	1	—	—	31	
	54	52-PK-51	Riffle gravel	5	14	35 qtz, 30 lior sch, 20 sill sch, 10 fels, 5 peg	2	4	40 qtz, 25 sill sch, 20 lior sch, 10 fels, 5 peg	12		67.6	45	25	4		14		2		—		5		—		—		—		—		—		—	
													100	63	15		29		6		—		3		—		2		—		—		—		7	
													170	11	1		3		2		tr		tr		—		1		—		tr		—		4	
													Total		20	3.7	46	6.2	10	1.3	tr	—	8	1.1	—	—	3	0.4	1	—	—	1	—	—	11	
	55	52-PK-49	Riffle sand	8	6	35 lior sch, 20 peg, 15 qtz, 15 fels, 15 sill sch	1	5	50 qtz, 20 lior sch, 15 fels, 10 sill sch, 5 peg	21		80.7	45	9	tr		4		1		—		4		—		tr		—		—		—		—	
													100	69	2		21		5		—		18		—		6		—		1	2	—	—	14	
													170	21	2		12		2		—		1		—		—		—		tr		—	4		
													Total		4	0.6	37	6.0	8	1.3	—	—	23	3.7	—	—	6	1.0	1	—	1	2	—	—	18	
	56	52-PK-48	Riffle sand	8	9	55 lior sch, 20 peg, 10 qtz, 10 sill sch, 5 fels	2 1/2	5	60 qtz, 20 lior sch, 10 fels, 5 peg, 5 sill sch	20		118.7	45	11	tr		5		tr		—		6		—		—		—		—		—		—	
													100	61	7		33		5		—		6		—		—		—		—		—	10		
													170	27	2		13		2		—		1		—		2		—		1	—	—	6		
													Total		9	2.1	51	12.1	7	1.7	—	—	13	3.1	—	—	2	0.5	1	—	tr	1	—	—	16	
	57	52-PK-47	Riffle gravel	0	19	80 lior sch, 15 qtz, 5 peg & fels	5	1	45 qtz, 30 lior sch, 10 fels, 10 musc sch, 5 peg	7		119.1	45	36	7		15		1		—		11		1		—		—		—		—		—	
													100	51	7		21		—		—		3		—		1		—		—		—	19		
													170	11	1		4		—		—		—		—		1		—		tr		—	5		
													Total		15	3.6	40	9.5	1	0.2	—	—	14	3.3	1	0.2	2	0.5	2	—	1	tr	—	—	24	
	58	52-PK-46	Riffle gravel	5	18	60 qtz, 15 lior sch, 15 pr, 5 fels, 5 peg	3	2	70 qtz, 10 lior sch, 10 peg, 5 fels, 5 sill sch	10		275.3	45	40	6		21		—		—		3		—		—		—		2	—	—	3	—	5
													100	50	3		19		—		1		1		—		1		—		—	2	—	23		
													170	7	—		3		—		—		—		—		—		—		1	—	—	3		
													Total		9	4.9	43	23.6	—	—	1	0.5	4	2.2	—	—	1	0.5	3	2	—	1	5	—	31	
	59	52-PK-45	Riffle gravel	6	12	60 qtz, 20 lior sch, 10 musc sch, 5 peg, 5 fels	2 1/2	7	50 qtz, 20 lior sch, 15 lior sch, 15 fels	13		38.1	45	16	2		7		1		—		6		—		—		—		—		—		—	
													100	54	4		17		2		—		8		—		10		—		1	2	—	—	10	
													170	27	2		7		2		—		—		—		4		—		1	2	—	—	9	
													Total		8	0.6	31	2.4	5	0.4	—	—	14	1.1	—	—	14	1.1	3	—	2	4	—	—	19	
	60	52-PK-44	Riffle gravel	6	20	80 graywacke, 15 qtz, 5 fels	7	1	40 qtz, 35 lior sch, 20 fels, 5 calcite	8		49.9	45	42	4		24		—		—		14		—		—		—		—		—		—	
													100	41	1		14		1		—		1		—		3		—		1	tr	—	—	20	
													170	14	—		5		—		—		tr		—		1		—		tr	1	—	—	7	
													Total		5	0.5	43	4.3	1	0.1	—	—	15	1.5	—	—	4	0.4	3	—	1	1	—	—	27	
	61	52-PK-42	Riffle sand	10	5	35 qtz, 30 lior sch, 15 fels, 10 peg, 5 pyroclastic rocks, 5 phyllite	2	7	60 qtz, 20 lior																											