

Table 27. Descriptions of sediments sampled along Cherokee Creek and other tributaries to the Broad River, Spartanburg County and Cherokee County, S. C., Rutherford County and Cleveland County, N. 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	52-PK-18	Riffle gravel	5	16	75 gty, 10 fela, 10 peg, 5 bio sch, tr sill sch	2 1/2	3	80 gty, 10 fela, 5 gar, 5 sill sch, tr muss	10		118.6	45	30	7		18						5														
													100	60	14		27						2												17		
													170	10	1		4																		4		
													Total		22	5.2	44	11.6					7	1.7			1	0.2	tr						21		
		52-PK-19	Bank clay	4 1/2	tr	organic frags, gty	1	7	100 organic frags, tr fela, tr gty	6	19	15.4	45	6	2		3						1														
													100	24	3		21				tr	tr													tr		
													170	70	1		46				2						4								17		
													Total		6	0.2	70	2.5			2	0.01	1	0.04			4	0.1	tr						17		
	2	52-PK-16	Riffle gravel	8	16	6.5 gty, 20 bio gm, 10 fela, 5 sill sch	3	5	80 gty, 10 sill sch, 10 fela, tr muss, tr silv		10		58.2	45	41	8		24						9													
													100	49	1		15						2				2								29		
													170	10	tr		3				tr														7		
													Total		9	1.0	42	4.9			tr		11	1.3			2	0.2	tr						36		
	3	52-PK-17	Riffle gravel	4 1/2	18	60 gty, 15 sill sch, 15 peg, 5 bio sch, 5 fela	3	3	50 gty, 30 sill sch, 15 fela, 5 muss, 5 peg		11		309.7	45	44	8		27						7				1								1	
													100	49	7		24						3				1								13		
													170	7	1		4				tr														2		
													Total		16	9.9	55	34.0			1	0.6	10	6.2			2	1.2	tr						16		
	4	52-PK-14	Riffle gravel	5	19	60 gty, 15 bio sch, 10 sill sch, 10 peg, 5 fela	2 1/2	2	6.5 gty, 20 sill sch, 10 fela, 5 muss, 5 bio		10		306.6	45	41	18		18						4				1								tr	
													100	47	10		12						2												22		
													170	10			1										2								7		
													Total		28	17.1	31	19.0			2	1.2	4	2.4			3	1.8	2						29		
	5	52-PK-15	Riffle gravel	0	14	4.5 bio gm, 20 gty, 15 sill sch, 10 peg, 10 fela	3	5	60 gty, 15 sill sch, 10 fela, 10 peg, 5 bio sch, tr muss, 5 bio		15		109.1	45	30	6		18						6													
													100	59	13		18							3				7							15		
													170	11	2		4										1								4		
													Total		21	4.6	40	8.7					9	2.0			8	1.7	tr				3			19	
	6	52-PK-11	Riffle gravel	5	17	60 bio gm, 20 gty, 10 sill sch, 5 peg, 5 bio sch	8	4	40 gty, 30 sill sch, 15 peg, 10 fela, 5 bio sch, gar, muss, 5 graphite		12		107.9	45	32	9		15						8													
													100	47	13		17							2				4							11		
													170	20	4		7										4								5		
													Total		26	5.6	39	8.4																	16		
		52-PK-12	Bank gravel	4 1/2	13	70 gty, 15 fela, 10 peg, 5 bio sch	6	2	80 gty, 8 fela, 7 sill sch, 3 gar, 2 bio sch		9		379.0	45	55	14		20						18											3		
													100	37	7		6							2											22		
													170	8	2		2										1								3		
													Total		23	20.6	28	25.1																	28		
		52-PK-13	Bank silt	1 1/4	tr	gty	1	tr	gty, fela, sill sch		8	25	7.3	45	10	1		6						3													
													100	76	10		28																				
													170	14	1		6																				
													Total		12	0.2	40	0.6																			
	7	52-PK-9	Riffle gravel	4	11	40 gty, 25 sill sch, 15 fela, 10 bio sch, 10 gar, 5 peg	2	7	70 gty, 15 sill sch, 10 fela, 5 bio sch, 4 muss		12		24.3	45	29	6		15							8												
													100	40	6		16																				
													170	31			12																				
													Total		12	0.6	43	2.1																			
		52-PK-10	Bank gravel	2 1/2	19</																																