

Table 134.2. Descriptions of sediments sampled along Catheys Creek and other tributaries to the Second 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	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									Mesh	Percent of concentrate	Percent of concentrate	Percent of concentrate	Percent of concentrate	Percent of concentrate	Percent of concentrate
Percent of concentrate																																										
H cont	59	51-PK-74	Riffle sand	5	No data	80 qtz, 15 rock frags, 5 fcls	No data	No	See + 1/4	20		396.3	Total	100	13	10.3	31	24.5	—	—	14	11.1	1	0.8	—	—	—	—	21	—	—	—	2	14	4							
J	60	51-PK-213	Riffle gravel	4	No data	97 hqn, 2 peg, 1 qtz	2 1/2	No	See + 1/4	6		116.2	Total	100	—	—	13	3.0	—	—	—	—	4	0.9	—	—	—	—	6	—	—	—	34	7	36							
	61	51-PK-212	Riffle gravel	4	No data	70 hqn, 20 qtz, 5 peg, 5 qtz actinolite gn	3	No	See + 1/4	8		108.8	Total	100	—	—	10	2.2	—	—	—	—	3	0.7	—	—	—	—	59	—	1	—	7	5	15							
	62	51-PK-209	Riffle gravel	3	No data	100 hqn	4	No	See + 1/4	4		76.3	Total	100	—	—	14	2.1	—	—	—	—	5	0.8	—	—	—	—	9	—	—	—	28	9	35							
	63	51-PK-205	Riffle gravel	3 1/2	No data	85 gn, 10 qtz, 5 fcls	No data	No	See + 1/4	10		136.2	Total	100	—	—	19	5.2	—	—	—	—	12	3.3	—	—	—	—	30	—	—	—	17	8	14							
	64	51-PK-207	Riffle gravel	7	No data	85 hqn, 10 qtz, 5 peg & fcls, tr op	No data	No	See + 1/4	10		129.3	Total	100	—	—	25	6.5	—	—	—	—	3	0.8	—	—	—	—	27	—	—	—	7	18	20							
		51-PK-208	Bank gravel	4	No data	45 hqn, 30 qtz, 15 gn, 10 fcls	3	No	See + 1/4	5		72.5	Total	100	2	0.3	18	3.1	—	—	—	—	6	1.0	—	—	—	—	23	—	—	—	11	20	20							
	65	51-PK-206	Riffle gravel	3	No data	60 hqn, 35 qtz, 5 gn	3 1/2	No	See + 1/4	6		449.6	Total	100	—	—	12	10.8	—	—	—	—	3	2.7	—	—	—	—	65	—	—	—	1	5	14							
	66	51-PK-204	Riffle gravel	4	No data	65 qtz, 35 hqn	2	No	See + 1/4	10		155.9	Total	100	1	0.3	25	7.8	—	—	—	—	9	2.8	—	—	—	—	28	—	—	—	4	10	23							
	67	51-PK-214A	Riffle gravel	4 1/2	No data	75 qtz, 25 peg & hqn	2 1/2	No	See + 1/4	10		137.0	Total	100	1	0.3	16	4.4	—	—	—	—	5	1.4	—	—	—	—	27	—	—	—	11	7	33							
	68	51-PK-202	Riffle gravel	3	No data	85 qtz, 10 gn & peg, 5 hqn sch, tr fcls	3	No	See + 1/4	7		513.5	Total	100	—	—	5	5.1	—	—	—	—	—	—	—	—	—	74	—	—	—	2	2	17								
	69	51-PK-200	Riffle gravel	7	No data	98 qtz, 2 hqn sch, tr peg	2	No	See + 1/4	10		122.4	Total	100	1	0.2	9	2.2	—	—	—	—	3	0.7	—	—	—	—	59	—	—	—	6	4	18							
		51-PK-201	Bank sand	6 1/2	No data	99 qtz, 1 hqn sch	1 1/2	No	See + 1/4	13		80.7	Total	100	1	0.2	10	1.7	—	—	—	—	2	0.3	—	—	—	—	41	—	—	—	14	7	25							
	70	51-PK-197A	Riffle gravel	8	No data	95 qtz, 5 hqn sch, tr peg	1 1/2	No	See + 1/4	12		109.0	Total	100	4	0.9	20	4.4	—	—	—	—	2	0.4	—	—	—	—	47	—	—	—	8	7	12							
		51-PK-195	Bank clay	7 1/4	—	—	—	—	—	1		2.7	Total	100	4	0.03	9	0.06	—	—	—	—	2	0.01	—	—	—	—	—	—	—	—	19	10	56							
K	71	51-PK-199A	Riffle gravel	3	No data	75 qtz, 20 hqn sch, 5 peg & fcls	2 1/2	No	See + 1/4	13		273.4	Total	100	—	—	14	7.6	—	—	—	—	10	5.5	—	—	—	—	42	—	8	—	2	8	16							
	72	51-PK-198	Riffle sand	7 1/2	No data	85 qtz, 15 rock frags	2	No	See + 1/4	21		169.4	Total	100	—	—	15	5.1	—	—	—	—	2	0.7	—	—	—	—	54	—	1	—	6	5	17							
	73	51-PK-197	Riffle gravel	3	No data	85 qtz, 15 gn & peg	No data	No	See + 1/4	16		163.8	Total	100	1	0.3	10	3.3	—	—	—	—	1	0.3	—	—	—	—	71	—	—	—	3	2	12							
	74	51-PK-196	Riffle gravel	4	No data	85 qtz, 10 peg, 5 hqn sch	4	No	See + 1/4	8		288.4	Total	100	3	1.7	16	9.2	—	—	—	—	3	1.7	—	—	—	—	62	—	1	—	—	1	14							
	75	51-PK-203	Riffle gravel	4	No data	97 qtz, 3 rock frags	2 1/2	No	See + 1/4	14		205.7	Total	100	4	1.6	7	3.7	—	—	—	—	—	—	—	—	—	62	—	2	—	—	4	19								
	76	51-PK-193A	Riffle gravel	3 1/2	No data	95 qtz, 5 rock frags	2 1/2	No	See + 1/4	18		425.4	Total	100	2	1.7	10	8.5	—	—	—	—	2	1.7	—	—	—	—	71	—	—	—	—	1	14							
L	70	See block J																																								
	76	See block K																																								
	77	51-PK-192	Riffle gravel	7	No data	99 qtz, 1 hqn sch, tr peg	1	No	See + 1/4	16		134.9	Total	100	2	0.5	26	7.0	—	—	—	—	2	0.5	3	0.8	—	—	—	—	35	—	—	—	7	10	15					
	78	51-PK-191	Riffle gravel	5	No data	70 qtz, 30 rock frags	No data	No	See + 1/4	17		132.2	Total	100	4	1.1	26	6.9	—	—	—	—	9	2.4	—	—	—	—	25	—	—	—	3	13	20							
	79	51-PK-190	Riffle sand	7	No data	85 qtz, 15 peg & gn	No data	No	See + 1/4	20		66.8	Total	100	2	0.3	25	3.3	—	—	—	—	2	0.3	6	0.8	—	—	—	—	20	—	—	—	14	13	18					
	85	51-PK-186	Riffle gravel	8	No data	75 qtz, 15 hqn, 10 gn	2 1/2	No	See + 1/4	10		29.9	Total	100	2	0.1	29	1.7	—	—	—	—	5	0.3	2	0.1	—	—	—	—	14	—	1	—	10	12	25					
M	80	51-PK-211	Riffle gravel	4	No data	98 qtz, 2 peg & gn, tr hqn sch	1 1/2	No	See + 1/4	15		40.5	Total	100	14	1.1	34	2.7	—	—	—	—	9	0.7	1	0.08	—	—	—	—	23	—	1	—	1	3	14					
	81	51-PK-210	Riffle sand	2 1/2	No data	85 qtz, 15 rock frags	No data	No	See + 1/4	21		81.9	Total	100	—	—	17	2.8	—	—	—	—	42	6.9	—	—	—	—	9	—	—	—	—	8	24							
	82	51-PK-189	Riffle gravel																																							