

Table 33. Descriptions of sediments sampled along Floyd 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 ratio	Silt and clay abundance	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								
G	28	51-PK-127	Riffle gravel	2 1/2	No data	6.5 qtz, 35 gr #	7	No data	See + 1/4	9		28.3	Total	100	24	1.4	46	2.6	1	0.06	4	0.2	9	0.5	—	—	4	0.2	1	—	—	—	—	—	—	11	
	29	51-PK-128	Riffle gravel	2	No data	9.5 qtz, 5 rock frags	No data	No data	See + 1/4	10		268.0	Total	100	45	24.1	40	21.4	2	1.1	—	—	2	1.1	—	—	1	0.5	—	—	—	—	—	—	10		
	30	51-PK-126	Riffle gravel	3 1/2	No data	70 qtz, 25 bio sch, 5 peg	No data	No data	See + 1/4	14		80.0	Total	100	43	6.9	34	5.4	—	—	2	0.3	8	1.3	—	—	1	0.2	—	—	—	—	—	—	12		
	31	51-PK-125	Riffle gravel	6	No data	60 qtz, 40 gr, silt sch & gr	4	No data	See + 1/4	13		61.6	Total	100	36	4.4	34	4.2	2	0.2	1	0.1	13	1.6	—	—	1	0.1	1	—	—	—	—	—	12		
	32	51-PK-124	Riffle sand	3	No data	70 qtz, 30 rock frags	No data	No data	See + 1/4	20		18.6	Total	100	11	0.4	48	1.8	2	0.07	1	0.04	21	0.8	—	—	6	0.2	1	—	—	—	—	—	10		
	33	51-PK-123	Riffle sand	4 1/2	No data	85 qtz, 10 bio sch, 5 phls	No data	No data	See + 1/4	19		157.2	Total	100	22	6.9	55	12.3	—	—	2	0.6	11	3.5	—	—	1	0.3	—	—	—	—	—	—	9		
	34	51-PK-122	Riffle sand	3	No data	90 qtz, 10 silt sch	No data	No data	See + 1/4	24		3.5	Total	100	10	0.07	53	0.4	—	—	1	0.007	8	0.06	—	—	6	0.04	—	—	—	1	1	—	20		
H	35	51-PK-224	Riffle sand	5	No data	80 qtz, 10 bio sch, 5 peg, 5 phls & musc	1	No data	See + 1/4	19		30.6	Total	100	18	1.1	45	2.7	—	—	1	0.06	5	0.3	—	—	1	0.06	2	—	—	8	—	—	20		
	36	51-PK-225	Riffle gravel	3	No data	75 qtz, 10 peg, 10 silt sch, 5 bio sch	2	No data	See + 1/4	10		29.6	Total	100	13	0.8	42	2.5	1	0.06	1	0.06	7	0.4	—	—	1	0.06	3	—	—	7	—	—	25		
I	37	51-PK-228	Riffle gravel	4	No data	6.5 gr, 35 qtz	3 1/2	No data	See + 1/4	14		82.9	Total	100	30	5.0	45	7.4	1	0.2	1	0.2	5	0.8	—	—	3	0.5	1	—	—	—	—	—	14		
	38	51-PK-226	Riffle gravel	4	No data	45 qtz, 35 silt sch, 15 peg, 5 bio sch	3	No data	See + 1/4	9		117.6	Total	100	21	4.9	50	11.7	to	—	—	7	1.6	—	—	3	0.7	1	—	—	2	—	—	—	16		
	39	51-PK-227	Riffle gravel	2 1/2	No data	6.5 qtz, 20 silt sch, 10 peg, 5 phls	3/4	No data	See + 1/4	15		110.8	Total	100	10	2.2	51	11.3	—	—	—	—	2	0.4	—	—	5	1.1	1	—	—	12	—	—	19		
J	40	51-PK-134	Riffle gravel	5	No data	85 qtz, 10 bio sch, 5 silt sch & phls	2	No data	See + 1/4	10		146.0	Total	100	25	7.3	54	15.7	—	—	1	0.3	2	0.6	—	—	—	—	—	—	—	—	—	—	18		
	41	51-PK-133	Riffle gravel	4	No data	90 qtz, 10 bio sch, 1 peg	4	No data	See + 1/4	9		236.9	Total	100	8	3.8	83	39.3	—	—	—	—	1	0.5	—	—	—	—	—	—	—	—	—	—	8		
	42	51-PK-132	Riffle gravel	5	No data	70 bio sch, 25 qtz, 5 peg	5	No data	See + 1/4	12		137.9	Total	100	20	5.5	67	18.4	—	—	3	0.8	2	0.6	—	—	1	0.3	—	—	—	—	—	—	7		
	43	51-PK-131	Riffle gravel	6	No data	60 qtz, 40 rock frags	No data	No data	See + 1/4	12		85.9	Total	100	13	2.2	60	10.3	—	—	1	0.2	2	0.3	—	—	2	0.3	1	—	—	—	—	—	21		
	44	51-PK-130	Riffle gravel	3 1/2	No data	60 qtz, 40 gr #, amph	No data	No data	See + 1/4	4		65.6	Total	100	27	3.5	51	6.7	—	—	3	0.4	10	1.3	—	—	—	—	—	—	—	—	—	—	9		
	45	51-PK-129	Riffle sand	5	No data	70 qtz, 20 bio sch, 10 peg	1	No data	See + 1/4	19		62.0	Total	100	15	1.9	65	8.0	—	—	1	0.1	7	0.9	—	—	2	0.2	—	—	—	—	—	—	10		
L	46	51-PK-231	Riffle gravel	5	No data	80 qtz, 10 peg, 5 silt sch, 5 bio sch	1	No data	See + 1/4	13		55.9	Total	100	21	2.3	38	4.2	1	0.1	3	0.3	8	0.9	—	—	6	0.7	3	—	—	—	—	—	20		
	47	51-PK-230	Riffle gravel	4	No data	65 qtz, 15 peg, 10 bio sch, 5 phls, 5 silt sch	3/4	No data	See + 1/4	9		101.1	Total	100	28	5.7	43	8.7	—	—	—	—	10	2.0	—	—	1	0.2	1	—	—	—	—	—	17		
	48	51-PK-229	Riffle sand	4	No data	65 qtz, 35 gr # & peg	2 1/2	No data	See + 1/4	19		53.7	Total	100	28	3.0	35	3.8	—	—	1	0.1	6	0.6	—	—	2	0.2	1	—	—	2	—	—	25		
M	49	51-PK-233	Riffle gravel	4	No data	60 qtz, 30 bio gr, 5 peg, 5 silt sch	3	No data	See + 1/4	8		80.4	Total	100	33	5.3	26	4.2	1	0.2	2	0.3	12	1.9	—	—	1	0.2	6	—	—	—	—	—	19		
	50	51-PK-232	Riffle sand	2	No data	50 qtz, 45 bio gr, 1 peg, 5 phls	1 1/2	No data	See + 1/4	22		8.2	Total	100	17	0.3	35	0.6	1	0.02	2	0.03	15	0.2	—	—	2	0.03	—	—	—	2	—	—	26		
N	51	51-PK-234	Riffle gravel	4	No data	60 qtz, 20 peg, 10 bio sch, 5 phls, 5 silt sch	6	No data	See + 1/4	7		52.3	Total	100	4	0.4	17	1.8	—	—	1	0.1	33	3.4	—	—	1	0.1	3	—	—	1	—	—	40		
O	52	51-PK-138	Riffle gravel	3	No data	50 qtz, 30 peg, 20 bio sch	2	No data	See + 1/4	8		10.9	Total	100	35	0.8	38	0.8	—	—	1	0.02	7	0.2	—	—	3	0.07	—	—	—	1	—	—	15		
	53	51-PK-137	Riffle gravel	4	No data	50 qtz, 50 silt sch, 1 peg & gr	No data	No data	See + 1/4	8		10.9	Total	100	21	0.5	42	0.9	—	—	2	0.04	5	0.1	—	—	10	0.2	1	—	—	—	—	—	19		
	54	51-PK-136	Riffle gravel	5	No data	75 qtz, 10 bio, 10 peg, 5 silt sch	No data	No data	See + 1/4	17		6.4	Total	100	25	0.3	39	0.5	2	0.03	4	0.05	4	0.05	—	—	5	0.06	2	—	—	2	—	—	17		
	55	51-PK-135	Riffle sand	2	No data	60 rock frags, 40 qtz	No data	No data	See + 1/4	24		3.5	Total	100	23	0.2	39	0.3	—	—	2	0.01	4	0.03	—	—	10	0.07	—	—	—	—	—	—	22		
P	56	51-PK-235	Riffle gravel	5	No data	80 qtz, 10 peg & phls, 10 bio silt sch	1 1/2	No data	See + 1/4	14		41.9	Total	100	11	0.9	34	2.8	1	0.08	8	0.7	21	1.8	—	—	—	—	4	—	—	4	—	—	17		
Q	58	51-PK-239	Riffle gravel	5	No data	60 bio gr, 25 peg, 10 qtz, 5 silt sch	6	No data	See + 1/4	8		70.1	Total	100	12	1.7	14	2.0	—	—	—	—	17	2.4	—	—	—	—	2	—	—	19	—	—	36		
		51-PK-240	Bank gravel	4 1/2	No data	85 qtz, 10 rock frags, 5 organic frags	1	No data	See + 1/4	10		28.3	Total	100	14	0.9	17	1.1	—	—	2	0.1	14	0.9	—	—	3	0.2	—	—	—	19	—	—	31		