

Table 30. Descriptions of sediments sampled along Sandy Run, Brushy Creek, and Beaverdam Creek - 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		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									
O	80	51-Jw-27	Bank silt		No data		No data	5		14.6	Total	100	4	0.1	6.0	1.8	7	0.2	1	0.03	2	0.06	—	—	13	0.4	1	—	—	tr	—	—	12			
cont.	81	51-Jw-24	Riffle sand	3 1/2	No data		No data	21		16.3	Total	100	3	0.1	47	1.5	1	0.03	—	—	8	0.3	—	—	15	0.5	1	tr	—	—	—	—	25			
P	83	51-OT-62	Riffle sand	6	3	50 gty, 40 sill sch, 10 hor qz, 5 gss, peg, & fels	No data	See + 1/4	30		206.5	Total	100	6	2.5	6.3	26.0	2	0.8	—	—	3	1.2	—	—	9	3.7	1	—	—	—	—	16			
		51-OT-63	Bank silt	4	tr	sill sch	No data	See + 1/4	5	29	56.2	Total	100	36	4.3	48	5.7	1	0.1	1	0.1	4	0.5	—	—	10	1.2	—	—	—	—	—	—			
	84	51-Jw-19	Riffle gravel		No data	50 gss, 50 gty, peg, sill sch, hor qz, & musc	No data	See + 1/4	18		343.4	Total	100	15	10.3	41	28.1	2	1.4	tr	—	4	2.7	—	—	6	4.1	2	—	tr	—	tr	—	30		
	85	51-Jw-20	Riffle sand	6	No data	40 gss, 35 gty, 15 fels, 10 sill sch & hor sch	No data	See + 1/4	19		163.6	Total	100	10	3.3	57	18.6	2	0.7	tr	—	9	2.9	—	—	5	1.6	1	—	—	—	—	16			
	86	51-Jw-23	Riffle sand	5 1/2	No data	40 gty, 30 gss, 10 hor sch & sill sch, 10 fels, 10 musc	No data	See + 1/4	21		74.0	Total	100	7	1.0	4.2	6.2	4	0.6	2	0.3	2	0.3	—	—	12	1.8	2	tr	—	—	—	29			
	87	51-Jw-18	Riffle sand	8 1/2	No data		No data	26		19.1	Total	100	9	0.3	2.5	1.0	1	0.04	2	0.08	6	0.2	—	—	11	0.4	tr	tr	—	tr	—	—	46			
	88	No sample																																		
	89	51-Jw-17	Riffle sand	3 1/2	No data		No data	25		6.7	Total	100	12	0.2	2.9	0.4	3	0.04	1	0.01	4	0.05	—	—	19	0.3	1	tr	—	—	—	—	31			
	90	51-Jw-22	Bank silt	2 1/2	No data		No data	9		53.9	Total	100	2	0.2	5.6	6.3	4	0.5	—	—	2	0.2	—	—	18	2.0	tr	tr	—	—	—	—	18			
	91	51-Jw-21	Riffle sand	7	No data		No data	24		18.2	Total	100	3	0.1	6.4	2.3	3	0.1	tr	—	8	0.3	—	—	6	0.2	1	—	—	—	—	—	15			
Q	82	51-Jw-25	Bank silt	1	No data		No data	3		4.4	Total	100	3	0.03	5.4	0.5	8	0.07	tr	—	3	0.03	—	—	15	0.1	2	—	—	—	—	—	15			
	92	51-OT-67	Riffle gravel	4	16	60 gty, 38 sill sch, 2 fels	No data	See + 1/4	18		12.0	Total	100	13	0.3	4.6	1.1	2	0.05	—	—	3	0.07	—	—	3.2	0.8	3	—	—	—	1	—	—		
	93	51-OT-66	Bank silt	1/2	No data		No data	6	28	36.6	Total	100	14	1.1	48	3.7	1	0.08	1	0.08	1	0.08	—	—	3.3	2.5	—	—	—	—	2	—	—			
	94	51-OT-68	Bank silt	1	No data		No data	10	24	30.8	Total	100	4	0.3	4.3	2.8	7	0.5	2	0.1	6	0.4	—	—	15	1.0	tr	—	—	tr	—	—	23			
		51-OT-69	Riffle sand	8	9	75 hor qz, 5 gss, peg & sill sch & 25 gty	No data	See + 1/4	24		84.7	Total	100	6	1.0	51	8.6	1	0.2	2	0.3	9	1.5	—	—	6	1.0	5	—	—	tr	—	—	20		
	95	51-OT-70	Riffle sand	—	—	—	—	—	34		16.9	Total	100	6	0.2	5.6	1.9	1	0.03	6	0.2	5	0.2	—	—	14	0.5	tr	—	—	—	—	12			
	96	51-OT-71	Riffle gravel	10	16	80 hor qz, 20 gty	No data	See + 1/4	14		70.0	Total	100	27	3.8	3.6	5.0	3	0.4	1	0.1	10	1.4	—	—	12	1.7	1	—	—	—	—	10			
R	97	51-Jw-68	Riffle sand	4 3/4	No data	45 gty, 20 hor-hqz, 20 gss, 10 peg, 5 musc & fels	No data	See + 1/4	24		82.3	Total	100	20	3.3	4.4	7.2	4	0.7	—	—	12	2.0	—	—	6	1.0	1	—	—	—	—	13			
		51-Jw-69	Bank clay	4	—	—	—	—	2		8.4	Total	100	13	0.3	6.0	1.2	1	0.02	11	0.2	5	0.1	—	—	9	0.2	tr	—	—	1	—	—	—		
		51-Jw-70	Bank clay	1 1/2	tr	No data	No data	See + 1/4	6		44.0	Total	100	11	1.1	48	5.0	8	0.8	1	0.1	6	0.6	—	—	15	1.6	1	—	—	—	—	10			
	98	51-Jw-66	Riffle sand	3 1/2	No data	50 gty, 35 gss, 5 hor sch, 5 fels, 5 peg & musc	No data	See + 1/4	19		61.2	Total	100	13	1.6	4.5	5.5	5	0.6	2	0.2	6	0.7	—	—	12	1.5	1	—	—	—	—	16			
		51-Jw-67	Riffle sand	3 1/2	No data	60 gty, 20 gss, 10 hor sch & musc, 10 fels	No data	See + 1/4	24		111.4	Total	100	11	2.4	6.0	13.3	5	1.1	—	—	6	1.3	—	—	6	1.3	1	—	—	—	—	11			
	99	51-Jw-71	Riffle sand	5	No data	50 gty, 30 hor qz, 10 gss, 5 fels, 5 musc & mica sch	No data	See + 1/4	24		106.2	Total	100	5	1.1	4.4	9.3	1	0.2	—	—	5	1.1	—	—	6	1.3	8	—	—	tr	—	—	31		
		51-Jw-72	Bank silt	2	No data	gty & organic frags	No data	See + 1/4	5		14.7	Total	100	2	0.06	5.5	1.7	8	0.2	1	0.03	2	0.06	—	—	21	0.6	tr	—	—	2	tr	—	9		
		51-Jw-73	Riffle sand	5	No data		No data	No data	19		71.7	Total	100	8	1.1	51	7.3	7	1.0	—	—	7	1.0	—	—	7	1.0	1	—	—	—	—	19			
	100	51-Jw-74	Riffle sand	6 1/2	No data	40 gty, 20 hor-hqz, 10 fels, 15 peg, 10 gss, 5 musc & sill sch	No data	See + 1/4	22		92.9	Total	100	7	1.3	5.4	10.0	2	0.4	—	—	7	1.3	—	—	4	0.7	—	—	—	—	—	—	26		
		51-Jw-75	Bank clay	5 3/4	No data	50 gty, 50 fels	No data	See + 1/4	7		30.3	Total	100	4	0.3	5.9	4.2	—	—	1	0.07	10	0.7	—	—	16	1.1	1	—	—	—	tr	—	9		
		51-Jw-76	Bank silt	3 3/4	No data		No data	No data	7		5.6	Total	100	12	0.1	41	0.5	6	0.07	2	0.02	6	0.07	—	—	15	0.2	tr	—	—	—	tr	—	18		
	101	51-Jw-77	Riffle sand	6 1/2	No data	60 gty, 15 hor-hqz, 10 gss, 10 peg & musc, 5 fels	No data	See + 1/4	19		109.4	Total	100	15	3.3	4.5	9.8	3	0.7	2	0.4	4	0.9	—	—	3	0.7	1	—	—	tr	—	—	27		
		51-Jw-78	Bank silt	3 3/4	—	—	—	—	10		35.3	Total	100	12	0.9	61	4.5	6	0.4	3	0.2	1	0.07	—	—	9	0.7	—	—	—	tr	—	—	8		