Table 12. Descriptions of sediments sampled along Turkey Creek and other tributaries to the Saluda River, Anderson, Greenwood, Abbeville, and Laurens Counties, S.C.

Block	Station number	Sample number	Material sampled	Depth of sample below surface of flood plain (feet)	Screening characteristics: Plus 1/4 inch: Volume ratio	Plus 1/4 inch: Composition (percent)	Plus 1/4 inch: Maximum intermediate dimension (inches)	Minus 1/4 – plus 1/8 inch: Volume ratio	Minus 1/4 – plus 1/8 inch: Composition (percent)	Minus 1/8 inch: Sand: Volume ratio	Minus 1/8 inch: Silt and clay: Abundance	Weight of concentrate (grams)	Sieve fraction: Mesh	Sieve fraction: Percent of concentrate	Monazite: Percent of concentrate	Monazite: Pounds per cubic yard	Ilmenite: Percent of concentrate	Ilmenite: Pounds per cubic yard	Rutile: Percent of concentrate	Rutile: Pounds per cubic yard	Zircon: Percent of concentrate	Zircon: Pounds per cubic yard	Garnet: Percent of concentrate	Garnet: Pounds per cubic yard	Kyanite: Percent of concentrate	Kyanite: Pounds per cubic yard	Sillimanite: Percent of concentrate	Sillimanite: Pounds per cubic yard	Magnetite	Hematite	Staurolite	Tourmaline	Amphibole, pyroxene, biotite	Epidote	Quartz	Others
															Percent of concentrate														Percent of concentrate							
A	1	52-DCX 578	Riffle sand		10	50 qtz, 20 gn, 10 fels, 10 bio sch, 10 sill sch	3/4	10	60 qtz, 20 fels, 10 gn, 10 sill sch	19		69.9	45	27	tr		22		tr		—		2		—		—		—	—	—	tr	1	1	1	
													100	61	1		34		2		—		1		—		tr		—	—	—	—	—	1	2	
													170	5	tr		5		tr		tr		—		—		tr		—	—	—	—	—	tr	tr	
													Total		1	.1	81	11.3	2	.3	tr	—	3	.4	—	—	tr		1	—	—	tr	1	2	3	
B	2	52-DCX 576	Riffle gravel		19	60 qtz, 20 gn, 20 fels	5	2	50 qtz, 20 gn, 20 fels, 10 bio sch	12		40.2	45	23	tr		12		—		—		7		—		—		—	—	—	—	1	tr	3	
													100	19	tr		13		—		—		2		—		—		—	—	—	—	tr	—	4	
													170	2	tr		2		tr		tr		tr		—		—		—	—	—	—	—	tr	tr	
													Total		tr	—	27	2.2	tr	—	tr	—	9	.1	—	—	—	—	56	—	—	—	1	tr	1	
	3	52-DC 577	Riffle gravel		16	60 qtz, 20 fels, 10 gn, 10 sill sch	1	2	70 qtz, 20 fels, 10 gn & sill sch	15		390.0	45	33	2		27		tr		tr		2		—		—		—	tr	—	—	—	1	1	
													100	44	5		30		1		tr		1		—		—		—	1	—	—	1	1	4	
													170	5	1		4		tr		tr		tr		—		—		—	—	—	—	—	tr	tr	
													Total		8	6.2	61	47.5	1	.8	tr	—	3	2.3	—	—	—	—	18	1	—	—	1	2	5	Xenotime
C	4	52-DC 579	Riffle gravel		14	40 qtz, 40 gn, 10 fels, 10 bio sch	2	4	60 qtz, 20 gn, 15 fels, 5 bio sch	15		86.3	45	20	2		16		tr		—		—		—		—		—	tr	—	—	—	tr	2	tr
													100	58	6		49		—		tr		—		—		—		—	—	—	—	1	—	2	tr
													170	8	1		7		—		tr		—		—		—		—	—	—	—	tr	—	—	
													Total		9	1.6	72	12.4	tr	—	tr	—	—		—		—	—	14	tr	—	—	1	tr	4	tr Xenotime
D	5	52-DC 372	Riffle gravel		17	50 qtz, 30 gn, 10 fels, 10 bio sch & bio gn	3	2	60 qtz, 20 fels, 10 bio sch, 10 gn	10		132.8	45	28	2		25		—		—		1		—		—		—	—	—	—	—	—	—	tr
													100	57	9		42		—		—		2		—		—		—	—	—	—	—	—	2	2
													170	8	2		6		—		tr		—		—		—		—	—	—	—	—	—	—	tr
													Total		13	3.4	73	19.4	—	—	tr	—	3	.8	—	—	—	—	7	—	—	—	—	—	2	2
	6	52-DC 368	Riffle gravel		15	50 qtz, 20 fels, 20 gn, 10 bio sch	4	3	60 qtz, 20 fels, 10 bio sch, 10 gn & sill sch	14		108.5	45	17	tr		14		2		—		tr		—		tr		—	—	—	—	—	—	1	
													100	57	3		43		—		3		—		—		—		—	—	—	—	—	—	8	
													170	15	1		1		—		4		—		—		1		—	—	—	—	—	—	2	
													Total		4	.9	64	13.9	2	.4	7	1.5	tr		—		1	2	11	—	—	—	—	—	11	
E	7	52-DC 370	Riffle sand		5	40 qtz, 30 fels, 20 gn, 10 bio sch	1	4	60 qtz, 20 fels, 10 gn, 10 bio sch	24		28.6	45	16	tr		12		1		tr		tr		—		—		—	—	—	—	—	tr	3	
													100	63	2		51		2		—		1		—		—		—	—	—	—	—	1	6	
													170	10	tr		10		tr		tr		—		—		tr		—	—	—	—	—	tr	tr	
													Total		2	.1	73	4.1	3	.2	tr	—	1	.06	—	—	tr	—	11	—	—	—	—	1	9	
	9	52-DC 371	Riffle sand		5	40 qtz, 30 gn, 20 fels, 10 bio sch & mica	1	4	60 qtz, 25 fels, 10 gn, 5 bio sch & mica	22		4.0	45	30	—		10		—		tr		2		—		—		—	1	—	tr	3	2	12	
													100	60	—		30		—		—		—		—		—		—	3	—	—	3	4	18	
													170	5	tr		5		—		tr		—		—		—		—	—	—	—	tr	tr	—	
													Total		tr	—	45	4	—	—	tr	—	2	.02	—	—	—	—	5	4	—	tr	8	6	30	
F	8	52-DC 369	Riffle gravel		15	60 qtz, 20 fels, 10 gn, 10 bio sch	3	3	60 qtz, 25 fels, 10 gn, 5 bio sch & mica	13		30.3	45	29	1		18		1		—		5		—		—		—	—	—	—	—	1	3	
													100	59	3		34		2		—		3		—		—		—	—	—	—	—	tr	11	
													170	6	1		5		tr		tr		—		—		—		—	—	—	—	—	—	—	
													Total		5	.3	57	3.4	3	.2	tr	—	8	.5	—	—	—	—	6	—	—	—	—	1	20	
G	10	52-DC 707	Riffle gravel		13	50 gn, 30 qtz, 10 bio sch, 10 fels	2	4	50 qtz, 30 gn, 10 bio sch, 10 fels	15		83.2	45	24	1		18		—		tr		—		—		—		—	3	—	—	—	—	2	
													100	47	4		33		1		2		—		—		—		—	3	—	—	tr	1	3	
													170	12	1		8		tr		3		—		—		—		—	tr	—	—	—	tr	tr	
													Total		6	1.0	59	9.8	1	.2	5	.8	—		—	—	—	—	11	6	—	—	tr	1	5	Sphene
H	11	52-DC 708	Riffle gravel		19	60 qtz, 20 gn, 10 fels, 10 bio sch	3	3	50 qtz, 30 bio sch, 10 fels, 10 gn	10		58.1	45	29	8		18		1		—		tr		—		—		—	—	—	—	—	1	1	—
													100	54	12		32		—		1				—		—		—	—	—	—	—	1	1	1
													170	9	3		5		—		1				—		—		—	—	—	—	—	—	tr	—
													Total		23	.27	55	6.4	1	.1	2	.2	tr		—	—	—	—	8	—	—	—	—	2	8	1

Mineralogical analyses by: H. B. Crom, Jr., R. P. Marquiss, C. J. Spangler, Jerome Stone