Table 5. ~~Descriptions~~ Mineral content of sediments sampled along Saddler Creek and other tributaries to the Savannah River, Anderson County, 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)	Minerals in concentrate: 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-DC-88	Riffle gravel		17	70 qtz, 20 fels, 10 micas sch	4	2	80 qtz, 15 fels, 5 micas	14		135.7	45	23	4		16		—		—		—		—		—		3	-	—	-	—	—	—	
													100	62	5		47		—		3		—		—		—		1	—	—	—	—	—	5	
													170	15	1		11		1		1		-		—		—		—	—	—	—	—	1	1	
													Total		10	2.7	74	20.0	1	.3	4	1.1	—	—	—	—	—	—	4	—	—	—	—	1	6	
	2	52-DC-89	Riffle gravel		16	80 qtz, 15 fels, 5 gn	4	3	80 qtz, 15 fels, 5 micas	13		150.0	45	48	1		8		—		tr		—		—		—		39	—	—	—	—	tr	tr	
													100	44	2		26		—		1		—		—		—		12	—	—	—	—	1	2	
													170	8	tr		5		tr		1		—		—		—		2	—	—	—	—	tr	tr	
													Total		3	.9	39	11.7	tr	—	2	.6	—	—	—	—	—	—	53	—	—	—	—	1	2	
		52-DC-90	Bank silt	3½	2	80 qtz, 20 fels	¾	1	90 qtz, 10 fels	13	15	23	45	tr	—		—		—		—		—		—		—		—	—	—	—	—	—	—	
													100	58	—		12		—		—		—		—		1		4	—	—	—	1	9	31	
													170	42	—		17		—		—		—		—		1		—	—	—	—	1	1	22	
													Total		—	—	29	.1	—	—	—	—	—	—	—	—	2	.01	4	—	—	—	2	10	53	
B	3	52-DC-67	Riffle gravel		15	70 qtz, 10 fels, 10 gn, 5 bio sch, 5 sill sch	¾	2	70 qtz, 15 fels, 10 sill sch, 5 micas, & bio sch	17		74.0	45	40	1		17		—		—		—		—		—		20	—	—	—	—	—	—	
													100	52	1		29		—		—		1		—		—		4	—	—	—	—	—	16	
													170	8	1		6		—		1		—		—		—		—	—	—	—	—	—	—	
													Total		3	.4	52	7.7	—	—	1	.2	1	.2	—	—	—	—	24	—	—	—	—	tr	16	
C	4	52-DC-66	Riffle gravel		11	40 qtz, 25 fels, 15 sill sch, 10 bio sch, 10 gn	3	3	50 qtz, 30 fels, 19 sill sch, 1 micas & bio sch	16		72.6	45	46	2		32		—		—		2		—		—		20	—	—	—	—	—	—	
													100	47	6		25		—		1		—		—		—		2	—	—	—	—	—	4	
													170	7	1		3		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		9	1.3	60	8.7	—	—	1	.1	2	.3	—	—	—	—	22	—	—	—	—	tr	4	
D	5	52-DC-19	Riffle gravel		12	70 qtz, 20 bio sch, 10 gn & peg	2	3	75 qtz, 15 bio sch, 5 sill sch, 5 micas & fels	14		208.2	45	26	2		17		—		—		2		—		—		4	—	—	—	—	—	1	
													100	66	6		47		—		—		—		—		—		1	—	—	—	—	—	12	
													170	8	1		6		—		—		—		—		—		—	—	—	—	—	—	1	
													Total		9	3.7	70	29.1	—	—	—	—	2	.8	—	—	—	—	5	—	—	—	—	tr	14	
		52-DC-20	Bank silt	6	3	80 qtz, 15 fels, 5 gn & bio sch	¾	3	90 qtz, 5 fels, 5 micas	16	15	89.0	45	23	1		19		—		—		3		—		—		—	—	—	—	—	—	—	
													100	66	5		48		—		—		2		—		—		—	—	—	—	—	—	11	
													170	11	2		7		—		1		—		—		—		—	—	—	—	—	—	1	
													Total		8	1.5	74	13.8	—	—	1	.2	5	.9	—	—	—	—	—	—	—	—	—	tr	12	
	6	52-DC-21	Riffle gravel		20	80 qtz, 10 fels, 5 gn, 5 bio sch & micas	5	1	75 qtz, 15 fels, 10 micas & bio sch	12		343.6	45	62	2		7		—		—		—		—		—		50	—	—	—	—	—	3	
													100	34	1		6		—		—		—		—		—		5	—	—	—	1	—	21	
													170	4	—		2		—		—		—		—		—		—	—	—	—	—	—	2	
													Total		3	2.1	15	10.3	—	—	—	—	—	—	—	—	—	—	55	—	—	—	1	—	26	
	7	52-DC-18	Riffle gravel		10	80 qtz, 10 bio sch, 10 gn & peg	2½	5	90 qtz, 5 fels, 5 bio sch	15		298.5	45	39	1		20		—		—		1		—		—		15	—	—	—	—	—	2	
													100	56	4		29		—		—		—		—		—		10	—	—	—	1	—	12	
													170	5	—		4		—		—		—		—		—		—	—	—	—	—	—	1	
													Total		5	3.0	53	31.6	—	—	—	—	1	.6	—	—	—	—	25	—	—	—	1	tr	15	
	8	52-DC-22	Riffle gravel		10	65 qtz, 20 bio sch, 10 gn & peg, 5 fels & sill sch	1	5	75 qtz, 20 fels, 5 micas & bio sch	16		193.0	45	37	2		22		—		—		2		—		—		10	—	—	—	—	—	1	
													100	57	4		34		—		—		1		—		1		5	—	—	—	—	—	12	
													170	6	—		4		—		—		—		—		—		—	—	—	—	—	—	2	
													Total		6	2.3	60	23.1	—	—	—	—	3	1.2	—	—	1	.4	15	—	—	—	—	tr	15	
E	9	52-DC-65	Riffle gravel		16	40 qtz, 30 fels, 20 gn, 5 bio sch & sill sch, 5 diorite	6	3	50 qtz, 35 fels, 10 bio sch & sill sch, 5 micas	11		257.8	45	19	1		8		—		—		2		—		—		10	—	—	—	—	—	1	
													100	66	3		43		1		1		1		—		—		7	—	—	—	—	—	9	
													170	15	2		10		—		2		—		—		—		1	—	—	—	—	—	—	
													Total		6	.31	61	31.4	1	.5	3	1.5	3	1.5	—	—	—	—	18	—	—	—	—	—	10	

Mineralogical analyses by: M. N. Hinkard, Jerome Stone, E. J. Young