Table 14 (continued). Mineral content of sediments sampled along Grove Creek and other tributaries to the Saluda River — continued

Block	Station number	Sample number	Material sampled	Depth of sample below surface of flood plain (feet)	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)
F cont	16	52-DC-480	Riffle gravel		20	60 qtz, 20 gn, 10 fels, 10 bio sch	4	1	70 qtz, 20 fels, 10 bio sch & gn	10		218.3
	17	52-DC-483	Riffle sand		4	60 qtz, 20 gn, 10 fels, 10 bio sch	3/4	1	60 qtz, 20 fels, 10 sill sch, 10 gn, & bio sch	24		150.6
	18	52-DC-484	Riffle gravel		20	40 qtz, 40 gn, 10 fels, 10 sill sch & bio sch	3	3	60 qtz, 20 fels, 10 sill sch, 10 gn & bio sch	11		40.0
G	19	52-DC-485	Riffle gravel		16	40 qtz, 30 gn, 20 sill sch, 10 fels	5	1	50 qtz, 20 sill sch, 10 gn, 10 fels, 10 bio sch	10		60.9
	20	52-DC-486	Riffle gravel		22	60 gn gn, 20 bio sch, 10 qtz, 10 fels	5	1	50 qtz, 30 gn, 10 fels, 10 bio sch	5		55.2
	21	52-DC-487	Riffle gravel		19	30 gn, 30 gb, 30 qtz, 10 fels	5	1	50 qtz, 30 gn, 10 sill sch, 10 fels	13		65.0
	22	52-DC-488	Riffle gravel		20	50 gn, 20 bio sch, 20 qtz, 10 fels	5	2	50 bio sch, 30 qtz, 20 fels	8		18.4
H	23	52-DC-491	Riffle gravel		17	50 qtz, 20 gn, 20 fels, 10 bio sch	2	2	60 qtz, 30 fels, 10 bio sch & mica	13		503.6
		52-DC-492	Bank sand	5	—	——	—	1	90 qtz, 10 fels	15	15	1.6
		52-DC-493	Bank clay	6	—	——	—	tr	organic frags	5	25	5.3
		52-DC-494	Bank silt	2	—	——	—	1	90 bio sch, 10 qtz & fels	2	30	2.5
	24	52-DC-489	Riffle gravel		21	60 qtz, 20 gn, 10 fels, 10 bio sch	4	1	70 qtz, 20 fels, 10 gn, bio sch & mica	10		39.3
		52-DC-490	Bank gravel	2	1	90 qtz, 10 fels	2	3	40 qtz, 10 fels	11	10	16.2
I	25	52-DC-497	Riffle gravel		20	10 qtz, 20 gn, 10 fels	4	2	10 qtz, 20 fels, 10 gn	10		241.2
		52-DC-498	Bank gravel	6 1/2	15	40 qtz, 10 fels	6	1	40 qtz, 10 fels & gn	4	10	6.0
	26	52-DC-499	Riffle gravel		12	40 qtz, 30 gn, 20 bio sch, 10 fels	4	5	60 qtz, 20 gn, 15 fels, 5 bio sch	16		112.4
	27	52-DC-500	Riffle gravel		14	50 qtz, 20 gn & gngn, 20 fels, 10 bio sch & mica	1	3	60 qtz, 20 fels, 10 bio sch, 10 gn & mica	16		116.5
J	28	52-DC-411	Riffle sand		1	40 qtz, 20 gn, 20 sill sch, 10 fels, 10 bio sch	5/8	11	60 qtz, 20 sill sch, 10 fels, 10 bio sch & mica	14		14.1
	29	52-DC-410	Riffle gravel		11	40 bio sch, 30 sill sch, 20 qtz, 10 fels	1	6	30 qtz, 30 sill sch, 30 bio sch, 10 fels	15		364.0

Minerals in concentrate

Sample number	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
480	45	41	tr		40		—		tr		1						—	—	—			—	—	
	100	47	1		40		—		2		—		—						—	—		—	4	
	170	9	tr		8		—		1		—												—	
	Total		1	.4	88	38.5	—	—	3	1.3	1	.4				—	3						4	
483	45	19	—		11		—		—		1											tr	1	
	100	12	1		66		—		2		tr												3	
	170	1	1		5				1														tr	
	Total		2	.6	88	26.4	—	—	3	9	1	.3	—			—	2					tr	4	
484	45	38	1		33		—				3				1									
	100	51	8		31		2		—		—												2	
	170	9	1		1		—		1											tr				
	Total		10	.8	11	6.2	2	.2	1	.08	3	2	—		3	.2	2			tr			2	
485	45	56	18		31		—		—		6				1									
	100	54	19		14		—		1		1				2								2	
	170	5	3		2				tr															
	Total		40	4.9	41	5.1			1	.1	1	8			3	.1	tr						2	
486	45	28	—		24				tr		3													
	100	58	3		50		—		1		1												2	
	170	12	tr		11				1															
	Total		3	.3	85	94		—	2	.2	4	4				—	2				2		2	
487	45	65	—		37		—		—		5										2		21	
	100	30	tr		20		—														2		8	
	170	4	tr		3		—		1														tr	
	Total		tr	—	60	1.8		—	1	.1	5	6					1				1		21	
488	45	10	1		4		—		—		tr													
	100	41	1		43		—		1														2	
	170	41	1		31		—		2														1	
	Total		3	.1	84	3.3	—	—	3	1	tr						2						3	
491	45	13	2		10		—		tr		1												tr	
	100	43	8		30		—		2		1												2	
	170	10	2		8		—		tr															
	Total		12	12.1	48	48.2	—	—	2	20	2	20					[illegible]	—	—					
492	45	20	—		13		—		—		1				1			—	—					
	100	66	—		53		—		—		2				—			—	—		1			
	170	14	tr		12		—		1		tr								—				1	
	Total		tr	—	18	.3	—	—	1	.004	3	.01				.01	tr	—	—				1	
493	45	6	—		2		—		—		tr				tr			—	—			tr	1	
	100	56	—		33		—		4						2			—			1		1	
	170	38	1		33		—		3													1		
	Total		1	.01	68	.8	—	—	1	.09	tr				2	.23	tr		—		11	2	1	
494	45	tr	—		—		—		—															
	100	36	2		28		—		1		2										1		2	
	170	56	3		48		—		2													1	2	
	Total		5	.02	16	.4	—	—	3	.02	—	.01					1				1	1	4	
489	45	24	10		15				—		1												—	
	100	56	1		31		—				2												11	
	170	3	1		1				1														tr	
	Total		18	1.4	41	3.1		—	1	.08	3	2					12						14	
490	45	20	5		11				—		1													
	100	61	11		28				6		3													
	170	16	1		6				3															
	Total		23	.9	55	21			1	.3	1	[illegible]												
497	45	20	1		17		—		tr		1											tr	1	tr
	100	13	tr		10		—		tr		1											tr		
	170	3	tr		2				1														tr	
	Total		1	.5	24	14.3		—	1	.3	1	[illegible]					6.4					tr	1	tr
498	45	36	1		35				tr		tr												tr	
	100	50	4		40				2														4	
	170	12	2		8				2															
	Total		1	.09	83	10			4	.02	tr						—						4	
499	45	11	2		1				tr		tr											tr	tr	
	100	20	2		14				tr						tr							1		
	170	3	tr		3				tr													tr		
	Total		4	.4	26	4.0		—	tr	—	tr	—			tr	—						1		
500	45	19	tr		16		—				3											tr	tr	
	100	53	1		41		—		2		1		—										2	
	170	12	tr		11		—		1		—		—											
	Total		1	.2	74	17.2		—	3	.1	4	.4				—	16					tr	2	
411	45	5	—		3		—		—		1		—		tr							1	tr	
	100	48	—		32		—		—		1		—		5							2	8	
	170	46	—		44		—		—		—		—		1							1	—	
	Total		—	—	17	2.3	—			—	2	.06	—		6		1					4	8	
410	45	26	2		19		—				4		—		—								1	
	100	53	10		29		—		1		2		—		—							2	9	
	170	12	6		5		—		1		—											—	tr	
	Total		18	13.3	53	31.0		—	2	1.5	6	4.4					4					2	10	