(Cont.) Mineral content

Table 1. ~~Descriptions~~ of sediments sampled along Hopkins Creek and other tributaries to the Little River — continued.

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	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																						
I	17	52-DC-679	Riffle gravel		11	60 qtz, 20 gr, 10 bio sch, 10 fels	2	5	60 qtz, 20 fels, 10 gr, 10 bio sch	14		83.9	45	32	13		14		—		1		1		—		—		—	tr					2	1
													100	51	19		21				2		1				1				1		1		4	tr
													170	10	3		1				tr		tr				tr				tr		1		1	
													Total		35	5.9	48	8.0					2				1			tr	tr		1	1	1	tr
	18	52-DC-680	Riffle gravel		12	50 qtz, 20 gr, 20 bio sch, 10 fels	2	3	50 qtz, 20 fels, 20 bio sch, 10 gr	18		26.1	45	28	11		15		tr		tr		2				tr						1	tr	tr	tr
													100	58	26		16		1		3									tr					11	
													170	14	5		6		1		1		tr				tr					1	1	1	1	
													Total		42	2.2	31	1.9	2	.1	4	.2	2	.1			1		tr	tr		tr	tr	tr	12	tr
	19	52-DC-681	Riffle sand		4	40 qtz, 30 fels, 20 bio sch, 10 gr	3/4	5	50 qtz, 20 fels, 20 bio sch, 10 gr	23		21.3	45	12	1		6										tr				1				1	
													100	60	5		42		tr		1						2				2					
													170	23	4		18		tr		1						tr						tr	tr		
													Total		10	.4	66	2.8	1	.04	2	.08	1	.04			2	.08	5	3			1			
	20	52-DC-691	Riffle gravel		17	40 qtz, 30 gr, 20 bio sch, 10 fels	5	2	50 qtz, 10 gr, 20 bio sch, 20 fels	10		12.1	45	41	20		18		1		tr		1							1			1				
													100	48	21		14		1		2		tr				tr			tr						
													170	11	6		4		tr		1		tr				tr						tr	tr		
													Total		53	1.3	36	.9	2	.05	3	.01	1	.02			tr		tr			tr		1		
		52-DC-694	Riffle gravel		16	60 qtz, 20 gr, 15 bio sch, 5 fels	6	3	50 qtz, 20 bio sch, 20 fels, 10 gr	14		51.8	45	42	9		21		tr		1		2						—							
													100	50	8		30		tr		3		tr				tr									
													170	8	2		5		tr		1		—									tr		1	tr	
													Total		19	2.0	62	6.4	tr	—	5	.5	2	.2			tr		tr							
	22	52-DC-695	Riffle gravel		10	50 qtz, 30 bio sch, 10 gr, 10 fels	2	5	60 qtz, 20 bio sch, 10 fels, 10 gr	18		50.5	45	31	6		11		1		tr		2											tr			
													100	58	20		28		1		2		1													
													170	8	2		5		tr		1		—				1						1		1	
													Total		28	2.8	50	5.0	2	.2	3	.3	3	.3			tr		1	1			1			
	26	52-DC-697	Riffle gravel		11	40 qtz, 30 gr, 20 bio sch, 10 fels	2	3	40 qtz, 30 bio sch, 20 fels, 10 gr	17		173.0	45	13	1		9		tr		tr		2				1									
													100	60	11		35		tr		3		1							1						
													170	15	6		6				3														1	
													Total		24	1.3	50	1.13	tr		6	.2.1	3				1		1	1			1		1	
K	23	52-DC-690	Riffle gravel		15	70 qtz, 10 fels, 10 gr, 10 bio sch	4	3	80 qtz, 10 fels, 10 gr	15		2324	45	53	2		46		1		1		tr												1	
													100	42	4		27		1		1		tr											1	1	
													170	3	tr		2		tr		1															
													Total		6	2.8	11	5.1	2	.9	3	1.4	tr											1	tr	
	24	52-DC-692	Riffle gravel		12	50 qtz, 30 bio sch, 10 gr, 10 fels	3/4	5	60 qtz, 20 bio sch, 15 fels, 5 gr	16		19.5	45	11	4		6		—		tr		1				tr								1	
													100	65	21		28		1		2		2				3						tr	1	1	
													120	21	10		9		tr		2		tr				tr								tr	
													Total		41	1.6	43	1.7	1	.04	4	.2	3				3	1	3				1			
		52-DC-693	Bank silt	1	—	—	—	tr	tr qtz & fels	1	20	4.5	45	6	1		4		—		tr		1				1			1			1		1	.1
													100	45	3		20		tr		1		1				1			1		1	1			
													170	41	15		23		—		4		1				1					1	1			
													Total		19	.2	47	.4	tr		5	.05	3				1	.01	2	tr		1	1	1		
	25	52-DC-696	Riffle sand		4	50 qtz, 20 gr, 20 fels, 10 bio sch	3/4	5	60 qtz, 20 bio sch, 10 fels, 10 gr	23		36.8	45	12	1		9		1				tr										1			tr
													100	62	8		39		3											2				3		
													170	18	3		13		1		1									1				1		
													Total		12	.9	61	4.5	5	.4	1		tr						1	2						
L	21	52-DC-682	Riffle sand		2	40 qtz, 30 bio sch, 20 gr, 10 fels	5/8	5	50 qtz, 20 fels, 20 bio sch, 10 gr	23		21.9	45	14	1		12		1																	tr	tr
													100	13	3		46		16		1															
													170	11	4		5		1		tr															
													Total		8	.4	64	3.6	18	1.0	1	.06														
	28	52-DC-687	Riffle sand		—	—	—	—	—	34		21	45	4	—		3		tr											tr		tr	tr		1	tr
													100	11	3		23		—		1											1				
													170	15	2		10		1											tr		tr				
													Total		5	.03	36	.2	4	.02	1	.01									tr	1	1			

Mineralogical analyses by: H. B. Groom, Jr., R. P. Marquiss, C. J. Spangler, Jerome Stone, M. N. Richard