

Table 35. Descriptions of sediments sampled along Mountain Creek and other tributaries to the Broad River, Rutherford County, N.C.

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	Pounds per cubic yard										
																													Percent of concentrate									
A	1	52-WE-96	Riffle gravel	5	24	75 gts, 10 fcls, 10 bio sch, 5 hgn	2	2	70 gts, 20 fcls, 5 bio sch, 5 hgn	9		162.0	45	60	1	9							2						40				1		7	xenotime		
													100	37	2	4													19				1		11			
													170	3		2													1									
													Total		3	1.0	15	4.8					2	.6					60				2	tr	18	tr		
	2	52-WE-94	Riffle gravel	6	15	80 gr, 10 fcls, 5 peg, 5 bio sch	1	4	70 gts, 20 fcls, 10 gr	11		113.1	45	38	2	8							2						21						5			
													100	55		8													21				1		25			
													170	7		3													1						3			
													Total		2	.5	19	4.3					2	.5					43				1	tr	33			
		52-WE-95	Bank gravel	4	15	85 gts, 5 fcls, 5 peg, 5 bio gr	1 1/2	1	75 gts, 20 fcls, 5 gr	10		2.0	45	13	1	3							3												6			
													100	51	1	7			3								1						3		12	22		
													170	36		15		4								tr		tr				2		1	4	10		
													Total		2	.03	25	.4	7	.1			3	.05			1	.02	1		5		2	22	32			
	3	52-WE-97	Riffle gravel	3	20	70 gts, 10 fcls, 10 peg, 10 bio sch	1	2	75 gts, 15 fcls, 10 bio sch	13		295.3	45	63		2													56					1	4	xenotime		
													100	34		3													12					7	12			
													170	3		1																			2			
													Total		tr		6	3.5											68					8	18	tr		
		52-WE-98	Bank silt	1 1/2							14	17.8	45	4		2													1						1	xenotime		
													100	63		3													2					5	7	46		
													170	33		7													2					2	9	13		
													Total				12	.5											5					7	16	60	tr	
	4	52-WE-93	Riffle gravel	5	15	70 gts, 10 bio sch, 10 hgn, 10 fcls	1 1/2	2	65 gts, 25 fcls, 5 bio sch, 5 hgn	12		52.1	45	43	1	5													32	1						.4		
													100	53	3	11													16	1				1		21		
													170	4															1	1						2		
													Total		4	.4	16	1.7	tr										49	3				1		27		
	5	52-WE-92	Riffle gravel	6 1/2	17	60 gts, 15 fcls, 10 peg, 10 hgn, 5 bio sch	1 1/4	2	60 gts, 30 fcls, 10 bio sch	12		153.7	45	54	2	6								2						36					1	7	xenotime	
													100	41	2	5													12					2	2	18		
													170	5		1																				4		
													Total		4	1.2	12	3.7	tr										48						2	3	29	tr
													45	38	1														35							2		
													100	54	5	7													16						1	3	21	
													170	8		3													1						1	3		
													Total		6	.8	10	1.4											52						1	4	26	
		52-WE-90	Bank clay	8 1/2							1	6.1	45	4																						4		
													100	48		1													3						2	42		
													170	48		9													3					1	1	34		
													Total		tr		10	.1											6					1	3	80		
		52-WE-91	Bank silt	2							1	12.2	45	5																						5		
													100	60															1						1	1	57	
													170	35		4													1					1	2	27		
													Total			4	.09												2						2	3	89	
B	7	52-WE-76	Riffle gravel	6	19	65 gts, 15 fcls, 15 gr, 5 bio sch	1	4	60 gts																													