

Appendix 3E. Transect-scale stream-habitat data for Pauls Creek above SR 1625 near Pine Ridge, North Carolina, 2004-2006. [SR, secondary road; %, percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]

August 27, 2004

Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False					No obs.
1	2	In Stream	True	0.34	1.05	Very coarse, large cobble (>128-256 mm)	20	True
1	3	In Stream	False	0.27	0.565	Very coarse, large cobble (>128-256 mm)	40	True
1	4	In Stream	False	0.27	0.138	Very coarse, large cobble (>128-256 mm)	40	True
1	5	Right Edge of Water	False	--	--	--	--	No obs.
2	1	Left Edge of Water	False	--	--	--	--	No obs.
2	2	In Stream	False	0.12	0.671	Very coarse, large cobble (>128-256 mm)	30	True
2	3	In Stream	False	0.18	1.70	Very coarse, large cobble (>128-256 mm)	60	True
2	4	In Stream	False	0.18	1.86	Very coarse, large cobble (>128-256 mm)	10	True
2	5	Right Edge of Water	False	--	--	--	--	No obs.
3	1	Left Edge of Water	False	--	--	--	--	True
3	2	In Stream	True	0.37	1.08	Coarse gravel (>16-32 mm)	--	True
3	3	In Stream	False	0.17	0.80	Coarse gravel (>16-32 mm)	--	True
3	4	In Stream	False	0.17	1.10	Coarse gravel (>16-32 mm)	--	True
3	5	Right Edge of Water	False	--	--	--	--	True
4	1	Left Edge of Water	False	--	--	--	--	No obs.
4	2	In Stream	True	0.46	0.531	Very coarse gravel (>32-64 mm)	--	True
4	3	In Stream	False	0.43	1.63	Coarse gravel (>16-32 mm)	--	True
4	4	In Stream	False	0.06	0.260	Coarse gravel (>16-32 mm)	--	True
4	5	Right Edge of Water	False	--	--	--	--	No obs.
5	1	Left Edge of Water	False	--	--	--	--	No obs.
5	2	In Stream	False	0.18	1.51	Small cobble (>64-128 mm)	20	True
5	3	In Stream	True	0.21	2.32	Small cobble (>64-128 mm)	20	True
5	4	In Stream	False	0.17	1.34	Very coarse, large cobble (>128-256 mm)	10	True
5	5	Right Edge of Water	False	--	--	--	--	No obs.
6	1	Left Edge of Water	False	--	--	--	--	No obs.
6	2	In Stream	False	0.23	1.91	--	--	True
6	3	In Stream	False	0.30	1.37	Very coarse, large cobble (>128-256 mm)	20	True
6	4	In Stream	True	0.34	0.752	Very coarse, large cobble (>128-256 mm)	30	True
6	5	Right Edge of Water	False	--	--	--	--	No obs.
7	1	Left Edge of Water	False	--	--	--	--	No obs.
7	2	In Stream	False	0.12	1.44	Small boulder (>256-512 mm)	10	True
7	3	In Stream	False	0.27	2.21	Very coarse, large cobble (>128-256 mm)	10	True
7	4	In Stream	True	0.29	2.21	Very coarse, large cobble (>128-256 mm)	10	True
7	5	Right Edge of Water	False	--	--	--	--	No obs.
8	1	Left Edge of Water	False	--	--	--	--	No obs.
8	2	In Stream	False	0.24	0.904	--	--	True
8	3	In Stream	False	0.38	1.54	Small boulder (>256-512 mm)		True
8	4	In Stream	True	0.40	0.925	Small boulder (>256-512 mm)	20	True
8	5	Right Edge of Water	False	--	--	--	--	No obs.
9	1	Left Edge of Water	False	--	--	--	--	No obs.
9	2	In Stream	False	0.17	.184	Coarse gravel (>16-32 mm)	--	True
9	3	In Stream	False	0.21	1.70	Coarse gravel (>16-32 mm)	--	True
9	4	In Stream	True	0.34	2.21	Very coarse, large cobble (>128-256 mm)	20	True
9	5	Right Edge of Water	False	--	--	--	--	No obs.
10	1	Left Edge of Water	False	--	--	--	--	No obs.
10	2	In Stream	True	0.55	0.565	Small boulder (>256-512 mm)	50	True
10	3	In Stream	False	0.43	0.590	Very coarse, large cobble (>128-256 mm)	80	True
10	4	In Stream	False	0.23	0.431	Sand (>0.063-2 mm)	--	True
10	5	Right Edge of Water	False	--	--	--	--	No obs.
11	1	Left Edge of Water	False	--	--	--	--	No obs.
11	2	In Stream	True	0.84	0.431	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
11	3	In Stream	False	0.66	0.331	Sand (>0.063-2 mm)	--	True
11	4	In Stream	False	0.29	0.275	Sand (>0.063-2 mm)	--	True
11	5	Right Edge of Water	False	--	--	--	--	No obs.

Appendix 3E. Transect-scale stream-habitat data for Pauls Creek above SR 1625 near Pine Ridge, North Carolina, 2004-2006. [SR, secondary road; %, percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in

Appendix 3A]--continued

August 19, 2005								
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
1	2	In Stream	True	0.60	1.00	Very coarse gravel (>32-64 mm)	80	True
1	3	In Stream	False	0.29	1.33	Very coarse gravel (>32-64 mm)	70	True
1	4	In Stream	False	0.11	.444	Very coarse gravel (>32-64 mm)	50	True
1	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
2	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
2	2	In Stream	False	0.34	2.25	Small cobble (>64-128 mm)	40	True
2	3	In Stream	False	0.30	2.85	Very coarse, large cobble (>128-256 mm)	30	True
2	4	In Stream	False	0.20	2.06	Small cobble (>64-128 mm)	50	True
2	5	Right Edge of Water	False	--	--	Small cobble (>64-128 mm)	50	True
3	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
3	2	In Stream	False	0.41	1.36	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	70	True
3	3	In Stream	False	0.41	1.22	Sand (>0.063-2 mm)	--	True
3	4	In Stream	False	0.31	1.19	Sand (>0.063-2 mm)	--	True
3	5	Right Edge of Water	False	--	--	Small cobble (>64-128 mm)	50	True
4	1	Left Edge of Water	False	--	--	Very coarse gravel (>32-64 mm)	60	True
4	2	In Stream	False	0.21	1.73	Small cobble (>64-128 mm)	60	True
4	3	In Stream	False	0.27	2.30	Very coarse gravel (>32-64 mm)	50	True
4	4	In Stream	True	0.35	1.19	Sand (>0.063-2 mm)	--	True
4	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
5	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
5	2	In Stream	True	0.40	2.79	Silt, clay, marl, muck, organic detritus	--	False
5	3	In Stream	False	0.32	1.19	Very coarse gravel (>32-64 mm)	40	True
5	4	In Stream	False	0.09	1.00	Very coarse gravel (>32-64 mm)	50	True
5	5	Right Edge of Water	False	--	--	Silt, clay, marl, muck, organic detritus	--	True
6	1	Left Edge of Water	False	--	--	Very coarse gravel (>32-64 mm)	50	True
6	2	In Stream	False	0.05	1.48	Very coarse gravel (>32-64 mm)	40	True
6	3	In Stream	False	0.15	2.79	Very coarse, large cobble (>128-256 mm)	50	True
6	4	In Stream	True	0.36	1	Small cobble (>64-128 mm)	30	True
6	5	Right Edge of Water	False	--	--	Silt, clay, marl, muck, organic detritus	--	True
7	1	Left Edge of Water	False	--	--	Silt, clay, marl, muck, organic detritus	2	True
7	2	In Stream	False	0.16	1.19	Small cobble (>64-128 mm)	30	True
7	3	In Stream	False	0.24	1.09	Small cobble (>64-128 mm)	50	True
7	4	In Stream	True	0.30	1.53	Small cobble (>64-128 mm)	30	True
7	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
8	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
8	2	In Stream	False	0.30	1.14	Sand (>0.063-2 mm)	--	True
8	3	In Stream	False	0.49	1.30	Coarse gravel (>16-32 mm)	50	True
8	4	In Stream	True	0.57	1.36	Very coarse gravel (>32-64 mm)	40	True
8	5	Right Edge of Water	False	--	--	Very coarse gravel (>32-64 mm)	20	True
9	1	Left Edge of Water	False	--	--	Small boulder (>256-512 mm)	30	True
9	2	In Stream	False	0.20	1.59	Small boulder (>256-512 mm)	20	True
9	3	In Stream	True	0.28	1.94	Coarse gravel (>16-32 mm)	40	True
9	4	In Stream	False	0.27	2.03	Coarse gravel (>16-32 mm)	40	True
9	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
10	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
10	2	In Stream	True	0.85	0.810	Sand (>0.063-2 mm)	--	True
10	3	In Stream	False	0.46	0.878	Sand (>0.063-2 mm)	--	True
10	4	In Stream	False	0.24	0.794	Sand (>0.063-2 mm)	--	True
10	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
11	1	Left Edge of Water	False	--	--	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
11	2	In Stream	True	0.67	0.981	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
11	3	In Stream	False	0.30	0.878	Sand (>0.063-2 mm)	--	True
11	4	In Stream	False	0.16	0.435	Sand (>0.063-2 mm)	--	True
11	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True

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Appendix 3A]--continued

August 22, 2006

Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False					No obs.
1	2	In Stream	True	0.46	.834	Small boulder (>256-512 mm)	40	False
						Large boulder, irregular bedrock, irregular hardpan (>512 mm)	80	False
1	3	In Stream	False	0.40	.834			
1	4	In Stream	False	0.31	.737	Small cobble (>64-128 mm)	50	No obs.
1	5	Right Edge of Water	False	--	--	--	--	No obs.
2	1	Left Edge of Water	False	--	--	--	--	No obs.
2	2	In Stream	True	0.67	.900	Very coarse, large cobble (>128-256 mm)	10	No obs.
2	3	In Stream	False	0.50	1.94	Very coarse, large cobble (>128-256 mm)	20	False
2	4	In Stream	False	0.43	0.459	Small cobble (>64-128 mm)	30	No obs.
2	5	Right Edge of Water	False	--	--	--	--	No obs.
3	1	Left Edge of Water	False	--	--	--	--	No obs.
3	2	In Stream	True	0.40	.519	Very coarse, large cobble (>128-256 mm)	40	False
3	3	In Stream	False	0.16	.753	Sand (>0.063-2 mm)	--	False
3	4	In Stream	False	0.18	0.619	Sand (>0.063-2 mm)	--	False
3	5	Right Edge of Water	False	--	--	--	--	No obs.
4	1	Left Edge of Water	False	--	--	--	--	No obs.
4	2	In Stream	True	0.25	1.05	Very coarse, large cobble (>128-256 mm)	40	False
4	3	In Stream	False	0.09	2.06	Very coarse, large cobble (>128-256 mm)	30	False
4	4	In Stream	False	0.19	1.8	Small cobble (>64-128 mm)	50	False
4	5	Right Edge of Water	False	--	--	--	--	No obs.
5	1	Left Edge of Water	False	--	--	--	--	No obs.
5	2	In Stream	False	0.21	1.00	Very coarse, large cobble (>128-256 mm)	40	False
5	3	In Stream	False	0.24	1.19	Very coarse, large cobble (>128-256 mm)	70	False
5	4	In Stream	True	0.26	0.780	Very coarse, large cobble (>128-256 mm)	40	False
5	5	Right Edge of Water	False	--	--	--	--	No obs.
6	1	Left Edge of Water	False	--	--	--	--	No obs.
6	2	In Stream	True	0.23	1.85	Very coarse, large cobble (>128-256 mm)	50	False
6	3	In Stream	False	0.18	1.73	Small boulder (>256-512 mm)	50	False
6	4	In Stream	False	0.08	1.53	Very coarse, large cobble (>128-256 mm)	50	False
6	5	Right Edge of Water	False	--	--	--	--	No obs.
7	1	Left Edge of Water	False	--	--	--	--	No obs.
7	2	In Stream	True	0.48	.250	Sand (>0.063-2 mm)	--	True
7	3	In Stream	False	0.37	1.36	Small cobble (>64-128 mm)	50	False
7	4	In Stream	False	0.37	0.030	Sand (>0.063-2 mm)	--	False
7	5	Right Edge of Water	False	--	--	--	--	No obs.
8	1	Left Edge of Water	False	--	--	--	--	No obs.
8	2	In Stream	False	0.23	1.25	Small boulder (>256-512 mm)	80	False
8	3	In Stream	False	0.09	.958	Small cobble (>64-128 mm)	50	False
8	4	In Stream	True	0.40	0.087	Sand (>0.063-2 mm)	--	True
8	5	Right Edge of Water	False	--	--	--	--	No obs.
9	1	Left Edge of Water	False	--	--	--	--	No obs.
9	2	In Stream	False	0.55	0.453	Sand (>0.063-2 mm)	--	True
9	3	In Stream	False	0.33	0.096	Sand (>0.063-2 mm)	--	True
9	4	In Stream	True	0.58	0.694	Sand (>0.063-2 mm)	--	True
9	5	Right Edge of Water	False	--	--	--	--	No obs.
10	1	Left Edge of Water	False	--	--	--	--	No obs.
10	2	In Stream	True	0.77	.419	Very coarse, large cobble (>128-256 mm)	70	True
10	3	In Stream	False	0.70	0.293	Very coarse, large cobble (>128-256 mm)	40	True
10	4	In Stream	False	0.27	0.752	Sand (>0.063-2 mm)	--	True
10	5	Right Edge of Water	False	--	--	--	--	No obs.
11	1	Left Edge of Water	False	--	--	--	--	No obs.
11	2	In Stream	True	0.57	1.24	Very coarse gravel (>32-64 mm)	--	False
11	3	In Stream	False	0.38	.304	Sand (>0.063-2 mm)	--	False
11	4	In Stream	False	0.36	1.56	Very coarse gravel (>32-64 mm)	--	No obs.
11	5	Right Edge of Water	False	--	--	--	--	No obs.

