Fifth Annual Monitoring Report - 2009 Growing Season

Little Contentnea Creek Riparian Buffer Restoration – Phase 3 (EEP Contract: 005020)

December 2009

Submitted to:

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Introduction and Background

On 27 June 2005 the NC Ecosystem Enhancement Program awarded Greene Environmental Services a contract to restore 54.16 acres of riparian buffer along Little Contentnea Creek and its unnamed tributaries in southeastern Greene County, NC (Figure 1) (Phase 3). The project was a continuation of the successful Phase1 and Phase 2 projects that restored a total of 87.1 acres of riparian buffers along unnamed tributaries to Little Contentnea Creek and Contentnea Creek. The Little Contentnea Creek Riparian Buffer Restoration Plan Phase 3 was implemented in 2005 with site preparation, the planting of 28,000 saplings of 11 species, and the establishment of 60 monitoring quadrats in 17 sampling units, as specified in the project's Mitigation Plan (GES, 2005) (Figure 2). Woody stem density, diameter, and height measurements were recorded in October 2009 within each of the 60, 100-square meter quadrats, as detailed in the Mitigation Plan. The monitoring results, management activities to date, and planned management activities are presented below.

Results

During the October 2009 monitoring, 545 planted, woody stems were recorded within the 60 quadrats, resulting in an average density of 368 planted, woody stems per acre (Table 1). Additionally, a total of 3,022 native *volunteers* were recorded (1,859 *Acer rubrum*, and 1,111 *Liquidambar styraciflua*) within the monitoring quadrats (Table 2). All recorded stems combined (i.e. planted + *volunteer*), totaled 3,567 live stems and thus results in a calculated average density of 2,407 woody stems per acre. This density exceeds the success criterion of 320 live woody stems per acre by 652 percent.

Monitoring data for planted stems indicate that *Fraxinus pennsylvanica* is the most abundant tree species (24.77 percent relative density) while *Platanus occidentalis* was the species with the greatest average height (3.73 meters) (Table 1). Relative frequency, relative density and relative diameter was calculated for planted species and is presented here as the importance value. Based on this calculation, in 2009 *P. occidentalis* was the most important planted species in the project area with a value of 171.46, followed by *F. pennsylvanica*, which had a value of 92.42. Other important species included *Quercus nigra* (55.60), *Quercus phellos* (55.28) and *Taxodium distichum* (48.58). Other oaks that could not be definitively identified had an importance value of 54.37. Of the 60 monitoring plots, all exceeded the 320 total stems per acre criterion except for 11 plots or 18% of the plots (Table 3).

A comparison of key parameters between the 2008 and 2009 plot monitoring efforts indicated little change (Table 4). The highest five ranked species by importance values was the same (from high to low: *Platanus occidentalis*, *Fraxinus pennsylvanica*, *Quercus nigra* and *Quercus phellos*); the only change being that the unidentified oaks, *Quercus* spp. replaced *Taxodium distcihum* as the fifth highest. The total number of planted stems per plot (thus calculated per acre) remained unchanged. The number of volunteers per plot, total stems per plot and per acre decreased by less than 1%.

Tables 5A through 64A includes numbers of stems, heights and diameters presented as averages and raw data for species found in each of the 60 plots. Also included is a qualitative assessment of the status of saplings (a value of 3 = vigorous, 2 = neutral, 1 = heavily grazed or senescing, and 0 = most aboveground tissue appeared dead but coppice sprouting possible). Tables 5B and 5C through 64B and 64C present woody plant heights and diameters, respectively, by size classes. Photo-documentation of each plot follows these tables.

Maintenance (Completed and Planned) and Qualitative Observations

While conducting plot surveys some areas where planted sapling density was low was noted, both within and outside of the plots. In areas with moderate wet to poorly drained soils were we prescribed supplemental plantings of *Taxodium distichum* and for moderately dry to dry soils we prescribed supplemental plantings of *Quercus* spp., *Liriodendron tulipifera, Platanus occidentalis* and *Diospyros virgianana*. During December of 2009 and January and February of 2010, approximately 200 seedlings of bare root *T. distichum* were planted in sampling units 1 and 2. Additionally, approximately 200 *T. distichum* and *L. tulipifera* seedlings were planted sample units 13 and 14 where previously planted saplings had been heavily grazed by rabbits and deer; plastic mesh plants guards were used to help reduce herbivory. On drier sites, approximately 600 *Quercus rubra*, *Q. alba*, and *P. occidentalis* along with 200 containerized *L. tulipifera* were planted in sample units 4, 5, 6 10, 11 and 12. Approximately 50 containerized *D. virginana* were planted in sample unit 11.

The chief problems with seedling and sapling survival and success appeared to be insufficient rainfall at critical times of seedling establishment and growth, grazing by deer and rabbits and belowground root competition with the pre-existing or encroaching pasture grass, coastal Bermuda grass (*Cynodon dactylon*).

Table 1. Importance values for planted species. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Total No. Stems	Plot Frequency	Average Height (cm)	Average Diameter (cm)	Average Status	Relative Frequency	Relative Density	Relative Diameter	Importance Value
Diospyros virginiana	6	3	92±62	0.9±0.2	0.5±0.8	5.00	1.10	0.11	**6.21**
Fraxinus pennsylvanica	135	39	70±40	0.9±0.4	1.6±0.5	65.00	24.77	2.65	**92.42**
Liriodendron tulipifera	17	7	135±113	1.0±0.8	2.2±0.8	11.67	3.12	0.67	**15.46**
Platanus occidentalis	115	40	373±245	4.2±3.7	2.5±0.8	66.67	21.12	83.67	**171.46**
Quercus alba	15	10	41±16	0.7±0.3	1.1±0.6	16.67	2.75	0.20	**19.62**
Quercus lyrata	1	1	38±	0.6±0.0	2.0±0.0	1.67	0.18	0.01	**1.86**
Quercus michauxii	19	2	50±0	0.4±0.2	2.0±0.4	3.33	3.49	0.11	**6.93**
Quercus nigra	50	27	93±66	0.9±0.7	1.9±0.7	45.00	9.17	1.43	**55.60**
Quercus pagoda	1	1	183±0	1.0±0.0	3.0±0.0	1.67	0.18	0.02	**1.87**
Quercus phellos	53	26	152±94	1.2±0.7	2.3±0.7	43.33	9.72	2.23	**55.28**
Quercus rubra	20	15	113±111	1.2±1.1	1.9±0.8	25.00	3.67	1.47	**30.14**
Quercus virginiana	14	6	187±79	1.5±0.8	2.6±0.5	10.00	2.57	0.97	**13.54**
Quercus spp.	55	26	63±43	0.8±0.4	1.6±0.7	43.33	10.09	0.95	**54.37**
Taxodium distichum	44	21	141±94	1.6±1.7	2.2±0.6	35.00	8.07	5.51	**48.58**
Totals	545	60				100	100	100	**300**

Table 2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	1175	684		2	1					1859
Crataegus spp.	1	14	2	1						18
Ilex opaca	5	3	1	1						10
Liquidambar styraciflua	270	487	220	108	10	8	4	3	1	1111
Morella cerifera				1						1
Pinus taeda	1	11	4			1				17
Prunus serotina		1	1							2
Rhus copallinum			1				1			2
Salix nigra							2			2
Totals	1441	1197	229	113	11	9	7	3	1	3022

Table 3. Stems per plot and calculated per acre. Little Contentnea Creek Riparian Buffer Restoration-Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Plot	Planted Stems/Plot	Planted Stems/Acre	Volunteers/Plot	Total Stems/Plot	Total Stems/Acre
1-1	10	405	0	10	405
1-2	8	324	0	8	324
1-3	8	324	0	8	324
2-1	9	364	0	9	364
2-2	4	162	31	35	1417
2-3	9	364	1	10	405
2-4	6	243	0	6	243
3-1	6	243	4	10	405
3-2	13	526	126	139	5628
3-3	13	526	113	126	5101
4-1	10	405	38	48	1943
4-2	3	121	2	5	202
4-3	9	364	1	10	405
5-1	6	243	61	67	2713
5-2	6	243	34	40	1619
5-3	4	162	0	4	162
6-1	6	243	52	58	2348
6-2	12	486	30	42	1700
6-3	7	283	35	42	1700
6-4	9	364	75	84	3401
7-1	4	162	25	29	1174
7-2	7	283	2	9	364
7-3	6	243	34	40	1619
8-1	8	324	7	15	607
8-2	9	364	0	9	364
8-3	10	405	1	11	445
8-4	6	243	0	6	243
9-1	12	486	0	12	486
9-2	6	243	13	19	769
9-3	10	405	14	24	972
9-4	5	202	2	7	283
10-1	7	283	0	7	283
10-2	26	1053	3	29	1174
10-3	11	445	0	11	445
11-1	8	324	0	8	324
11-2	5	202	0	5	202
11-3	15	607	0	15	607
11-4	15	607	0	15	607
12-1	11	445	17	28	1134
12-2	13	526	13	26	1053
12-3	6	243	56	62	2510
12-4	6	243	0	6	243
13-1	9	364	1	10	405
13-2	10	405	1	11	445
13-3	16	648	0	16	648
13-4	14	567	1	15	607

Continued

Table 3. Continues. Stems per plot and calculated per acre. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Plot	Planted Stems/Plot	Planted Stems/Acre	Volunteers/Plot	Total Stems/Plot	Total Stems/Acre
14-1	11	445	342	353	14291
14-2	3	121	420	423	17126
14-3	1	40	720	721	29190
14-4	4	162	690	694	28097
15-1	16	648	5	21	850
15-2	13	526	25	38	1538
15-3	10	405	9	19	769
15-4	11	445	4	15	607
16-1	11	445	0	11	445
16-2	9	364	0	9	364
16-3	12	486	6	18	729
17-1	9	364	4	13	526
17-2	10	405	4	14	567
17-3	12	486	0	12	486
Totals	545	$\bar{x}$ = 368	3022	3567	$\bar{x}$ = 2407

Table 4. Comparison of key parameters between 2008 annual monitoring data to 2009 annual monitoring data. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Parameter	2008 Monitoring Data	2009 Monitoring Data
Importance Value (Five highest ranked planted species)	1. *Platanus occidentalis* 2. *Fraxinus pennsylvanica* 3. *Quercus nigra* 4. *Quercus phellos* 5. *Taxodium distichum*	1. *Platanus occidentalis* 2. *Fraxinus pennsylvanica* 3. *Quercus nigra* 4. *Quercus phellos* 5. *Quercus* spp.
Total number planted stems in all 60 plots	545	545
Total number volunteer stems in all 60 plots	3049	3022
Total number planted and volunteer stems in all 60 plots	3594	3567
Average number planted stem/acre	368	368
Average number total stems /acre	2424	2407

Table 5A. Plot 1-1. 2009 Plot Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana	1	216±0	0.5±0	2.0±0	216	0.5	2												
Fraxinus pennsylvanica	1	170±0	0.8±0	2.0±0	170	0.8	2												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	69±0	0.4±0	1.0±0	69	0.4	1												
Quercus falcate	1	229±0	1.3±0	2.0±0	229	1.3	2												
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii	4	59+24	2.0±0	0.2±0.1	51	0.3	2	30	0.2	2	89	0.3	2	53	0.2	2			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	2	269±137	4.8±4.6	2.5±0.7	366	8	3	173	1.5	2									
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	405																		

Table 5B. Plot 1-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 5C. Plot 1-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 6A. Plot 1-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																						
Fraxinus pennsylvanica	2	83±16	0.7±0	1.0±0	71	0.7	1	934	0.7	1												
Liriodendron tulipifera																						
Nyssa biflora																						
Platanus occidentalis																						
Quercus falcata																						
Quercus lyrata																						
Quercus nigra	1	104±0	2.8±0	2±0	104	2.8	2															
Quercus michauxii																						
Quercus phellos	2	94±4	1.1±0.3	2.0±0	91	0.9	2	96	1.3	2												
Quercus rubra																						
Quercus virginiana																						
Quercus spp.																						
Taxodium distichum	3	133±58	1.7±1.3	2.0±0	165	2	2	168	2.8	2	66	0.3	2									
Total planted stems /plot	8																					
Total planted /acre	324																					
Total planted and volunteer stems/acre	324																					

Table 6B. Plot 1-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Total										0

*No Volunteers Recorded

Table 6C. Plot 1-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Total											0

*No Volunteers Recorded

Table 7A . Plot 1-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. . Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																									
Fraxinus pennsylvanica	2	75±2	1.3±0.3	1.5±0.7	74	1.5	2	76	1.1	1															
Liriodendron tulipifera																									
Nyssa biflora																									
Platanus occidentalis																									
Quercus falcate																									
Quercus lyrata																									
Quercus nigra	4	98±31	0.9±0.5	1.5±0.6	127	1.5	2	66	0.5	1	79	0.5	1	122	1.1	2									
Quercus michauxii																									
Quercus phellos	1	168±0	1.1±0	1.0±0	168	1.1	1																		
Quercus rubra																									
Quercus virginiana																									
Quercus spp.	1	84±0	1.2±0	2.0±0	84	1.2	2																		
Taxodium distichum																									
Total planted stems /plot	8																								
Total planted /acre	324																								
Total planted and volunteer stems/acre	324																								

Table 7B. Plot 1-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 7C. Plot 1-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 8A Plot 2-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																						
Fraxinus pennsylvanica	2	56±7	0.7±0.4	1.5±0.7	51	0.4	1	61	0.9	2												
Liriodendron tulipifera	2	36±8	0.3±0	2.0±0	42	0.3	2	30	0.3	2												
Nyssa biflora																						
Platanus occidentalis																						
Quercus falcate																						
Quercus lyrata																						
Quercus nigra																						
Quercus michauxii																						
Quercus phellos	1	53±0	0.4±0	1.0±0	53	0.4	1															
Quercus rubra																						
Quercus virginiana																						
Quercus spp.	2	55±23	0.4±0	1.0±0	71	0.4	1	3	0.4	1												
Taxodium distichum	2	67±2	0.4±0	2.0±0	68	0.4	2	65	0.4	2												
Total planted stems /plot	9																					
Total planted /acre	364																					
Total planted and volunteer stems/acre	364																					

Table 8B. Plot 2-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 8C. Plot 2-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 9A. Plot 2-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																						
Fraxinus pennsylvanica	2	62±20	0.5±0.1	1.0±0	76	0.6	1	48	0.4	1												
Liriodendron tulipifera																						
Nyssa biflora																						
Platanus occidentalis	1	610±0	6.5±0	3.0±0	610	6.5	3															
Quercus falcate																						
Quercus lyrata																						
Quercus nigra																						
Quercus michauxii																						
Quercus phellos																						
Quercus rubra																						
Quercus virginiana																						
Quercus spp.																						
Taxodium distichum	1	81±0	0.4±0	1.0±0	81	0.4	1															
Total planted stems /plot	4																					
Total planted /acre	162																					
Total planted and volunteer stems/acre	1417																					

Table 9B. Plot 2-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	25	6								31
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	25	6								31

Table 9C. Plot 2-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca	25	6									31
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	25	6									31

Table 10A. Plot 2-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																						
Fraxinus pennsylvanica	4	66±5	0.9±0.2	2.0±0	64	1	2	69	0.8	2	71	1.1	2	61	0.7	2						
Liriodendron tulipifera																						
Nyssa biflora																						
Platanus occidentalis																						
Quercus falcate																						
Quercus lyrata																						
Quercus nigra	3	137±5	1.5±0.4	2.0±0	132	1.2	2	137	1.4	2	142	1.9	2									
Quercus michauxii																						
Quercus phellos	1	56±0	0.6±0	2.0±0	56	0.6	2															
Quercus rubra																						
Quercus virginiana																						
Quercus spp.	1	51±0	0.4±0	1.0±0	51	0.4	1															
Taxodium distichum																						
Total planted stems /plot	9																					
Total planted /acre	364																					
Total planted and volunteer stems/acre	405																					

Table 10B. Plot 2-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		1								1
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		1								1

Table 10C. Plot 2-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum		1									1
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		1									1

Table 11A. Plot 2-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. . Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	160±0	10.0±0	3.0±0	160	10	3												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana	1	335±0	3.0±0	3.0±0	335	3	3												
Quercus spp.																			
Taxodium distichum	4	220±60	2.3±1.3	2.8±0.5	135	0.9	2	229	2.2	3	274	4	3	244	2	3			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	243																		

Table 11B. Plot 2-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.*

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 11C. Plot 2-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.*

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 12A. Plot 3-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	3	813±88	12.4±0.5	3.0±0	914	11.9	3	762	12.4	3	762	12.8	3						
Quercus falcata	1	102±0	0.9±0	2±0	102	0.9	2												
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	2	351±28	5.8±0.3	3.0±0	366	5.6	3	335	6	3									
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	405																		

Table 12B. Plot 3-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		1								1
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua				1						1
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra			2							2
Totals		1	2	1						4

Table 12C. Plot 3-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum		1									1
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua				1							1
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra			1		1						2
Totals		1	1	1	1						4

Table 13A. Plot 3-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	4	99±14	0.8±0.3	2.0±0	89	0.7	2	94	0.7	2	119	0.5	2	94	1.1	2			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	140±0	0.6±0.1	2.0±0	140	0.6	2	140	0.5	2									
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	3	132±18	0.7±0.3	2.3±0.6	152	1	3	122	0.5	2	122	0.5	2						
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	183±0	1.0±0	3.0±0		183	1	3											
Taxodium distichum	3	169±75	1.3±0.8	2.3+0.6	170	1	2	244	2.2	3	94	0.6	2						
Total planted stems /plot	13																		
Total planted /acre	526																		
Total planted and volunteer stems/acre	5628																		

Table 13B. Plot 3-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	100									100
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	20	6								26
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	120	6								126

Table 13C. Plot 3-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	100										100
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	20	6									26
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	120	6									126

Table 14A. Plot 3-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	9	79±24	0.7±0.2	1.6±0.5	74	0.8	1	48	0.7	1	102	0.9	2	86	0.6	2	58	0.5	1
					51	0.5	1	114	1	2	102	0.6	2	74	0.7	2			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	84±0	0.5±0	1±0	84	0.5	1												
Quercus falcata																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	3	186+75	1.5±0.8	2.7±0.6	102	0.7	2	213	2.2	3	244	1.7	3						
Total planted stems /plot	13																		
Total planted /acre	526																		
Total planted and volunteer stems/acre	5101																		

Table 14B. Plot 3-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	100									100
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	5	6								11
Morella cerifera										
Pinus taeda	2									2
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	107	6								113

Table 14C. Plot 3-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	100										100
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	5	6									11
Morella cerifera											
Pinus taeda	2										2
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	107	6									113

Table 15A. Plot 4-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	56±0	0.7±0	1±0	56	0.7	1												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	4	305±50	2.6±01.3	2.3±0.5	305	2.1	2	366	4.4	3	305	2.7	2	244	1.3	2			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	1	46±0	0.5±0	1.0±0	46	0.5	1												
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	4	122±53	1.1±0.5	2.0±0	114	1.3	2	51	0.3	2	153	1.4	2	170	1.4	2			
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	1943																		

Table 15B. Plot 4-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	20	5	6	6						37
Morella cerifera										
Pinus taeda	1									1
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	21	5	5	6						38

Table 15C. Plot 4-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera	10	15	12								37
Pinus taeda	1										1
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	11	15	12								38

Table 16A. Plot 4-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	3	366±30	3.6±0.7	2.7±0.6	396	4	3	335	2.8	2	366	4	3						
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	3																		
Total planted /acre	121																		
Total planted and volunteer stems/acre	202																		

Table 16B. Plot 4-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	2									2
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	2									2

Table 16C. Plot 4-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	2										2
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	2										2

Table 17A. Plot 4-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	8	277±107	2.5±1.4	2.4±0.7	305	2.8	3	427	5.5	3	244	1.9	2	213	1.6	2	366	3.1	3
					335	2.9	3	79	0.9	1	244	1.4	2						
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	1	28±0	1.2±0	1.0±0	28	1.2	1												
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	405																		

Table 17B. Plot 4-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda	1									1
Prunus serotina										
Rhus copallinum										
Salix nigra										
Total	1									1

Table 17C. Plot 4-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda		1									1
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		1									1

Table 18A. Plot 5-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	2	34±5	0.5±0.1	1.0±0	30	0.4	1	38	0.5	1									
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	1	71±0	0.6±0	1±0	71	0.6	1												
Quercus michauxii																			
Quercus phellos	3	164±108	1.1±0.9	2.0±1.0	274	2.1	3	160	0.9	2	58	0.4	1						
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	2713																		

Table 18B. Plot 5-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	50	11								61
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	50	11								61

Table 18C. Plot 5-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	50	11									61
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	50	11									61

Table 19A. Plot 5-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	2	67±9	0.9±0.2	1.0±0	61	0.7	1	74	1	1									
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	3	376±156	3.4±2.4	3.0±0	549	6.1	3	244	1.5	3	335	2.6	3						
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	1	30±0	0.3±0	1.0±0	30	0.3	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	1619																		

Table 19B. Plot 5-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	25	9								34
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	25	9								34

Table 19C. Plot 5-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	25	9									34
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	25	9									34

Table 20A. Plot 5-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	360±0	3.5±0	3±0	360	3.5	3												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	3	51±10	1.0±0.1	2.0±0	59	1	2	53	0.9	2	40	1	2						
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	4																		
Total planted /acre	162																		
Total planted and volunteer stems/acre	162																		

Table 20B. Plot 5-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 20C. Plot 5-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 Cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 21A. Plot 6-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	3	264±18	2.2±0.6	2.7±0.6	274	2.6	3	274	2.5	3	244	1.5	2						
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	1	46±0	0.4±0	1.0±0	46	0.4	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	1	56±0	0.4±0	2.0±0	56	0.4	2												
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	1	102±0	0.9±0	2.0±0	102	0.9	2												
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	2348																		

Table 21B. Plot 6-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	25									25
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	27									27
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	52									52

Table 21C. Plot 6-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	25										25
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	27										27
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	52										52

Table 22A. Plot 6-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	5	76±16	0.7±0.2	1.6±0.5	81	1	2	71	0.9	2	69	0.6	1	58	0.6	1	102	0.5	2
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	3	660±18	9.2±0.3	3.0±0	671	9	3	640	9.5	3	671	9	3						
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	1	84±0	1.8±0	2.0±0	84	1.8	2												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	3	147±85	1.3±1.1	2.7±0.6	244	2.6	3	84	0.6	2	114	0.7	3						
Total planted stems /plot	12																		
Total planted /acre	486																		
Total planted and volunteer stems/acre	1700																		

Table 22B. Plot 6-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	25									25
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	5									5
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	30									30

Table 22C. Plot 6-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 0 cm	35.0<40.0 cm	Totals
Acer rubrum	25										25
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	5										5
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	30										30

Table 23A. Plot 6-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	63±6	0.7±0.1	1.3±0.6	66	0.8	1	66	0.7	2	56	0.5	1						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcata																			
Quercus lyrata																			
Quercus nigra	1	86±0	1.1±0	2±0	86	1.1	2												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	3	104±7	1.3±0.2	2.7±0.6	102	1.5	3	112	1.2	3	99	1.2	2						
Total planted stems /plot	7																		
Total planted /acre	283																		
Total planted and volunteer stems/acre	1700																		

Table 23B. Plot 6-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	30									30
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	5									5
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	35									35

Table 23C. Plot 6-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	30										30
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	5										5
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	35										35

Table 24A. Plot 6-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	2	55±5	0.7±0.2	1.0±0	58	0.5	1	51	0.8	1									
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	4	602±210	5.2±0.4	3.0±0	914	15	3	457	2.2	3	518	4.9	3	518	5.5	3			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	2	66±57	0.7±0.5	1.5±0.7	25	0.3	1	107	1	2									
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum	1	305±0	5.2±0	3.0±0	305	5.2	3												
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	3401																		

Table 24B. Plot 6-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua			25	25	25					75
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals			25	25	25					75

Table 24C. Plot 6-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		25	25	25							75
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		25	25	25							75

Table 25. Plot 7-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	22±0	1.0±0	1.0±0															
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	3	27±7	0.6±0.3	1.0±0	35	0.5	1	22	0.9	1	24	0.4	1						
Taxodium distichum																			
Total planted stems /plot	4																		
Total planted /acre	162																		
Total planted and volunteer stems/acre	1174																		

Table25 B. Plot 7-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		10	10							20
Morella cerifera										
Pinus taeda		4	1							5
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		14	11							25

Table 25C. Plot 7-1 . Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	1	19									20
Morella cerifera											
Pinus taeda	2	2	1								5
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	3	21	1								25

Table 26A. Plot 7-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	69±0	0.6±0	1.0±0															
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	6	708±114	6.8±1.5	3.0±0	762	6.9	3	853	6.3	3	518	5.5	3	681	6.6	3	762	5.5	3
					671	9.7	3												
Quercus falcata																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	7																		
Total planted /acre	283																		
Total planted and volunteer stems/acre	364																		

Table 26 B. Plot 7-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		2								2
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		2								2

Table 26 C. Plot 7-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		1	1								2
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		1	1								2

Table 27A. Plot 7-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	239±98	1.1±0.2	2.0±1.0	267	1	2	320	1.3	3	129	0.9	1						
Liriodendron tulipifera	1	787±0	2.5±0	3.0±0	787	2.5	3												
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	1	508±0	1.0±0	3.0±0	508	1	3												
Quercus rubra																			
Quercus virginiana	1	318±0	1.0±0	3.0±0	318	1	3												
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	1457																		

Table 27B. Plot 7-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		1								1
Crataegus spp.										
Ilex opaca	3	2								5
Liquidambar styraciflua	4									4
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum		20	4							24
Salix nigra										
Totals	7	23	4							34

Table 27C. Plot 7-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	1										1
Crataegus spp.											
Ilex opaca	5										5
Liquidambar styraciflua	4										4
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum	20	4									24
Salix nigra											
Totals	30	4									34

Table 28A. Plot 8-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	8	640±186	8.6±3.6	2.8±0.7	671	9.3	3	488	5.4	3	762	11.9	3	457	5.5	3	762	9.7	3
					701	10.4	3	366	2.9	1	914	13.5	3						
Quercus falcata																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	8																		
Total planted /acre	324																		
Total planted and volunteer stems/acre	607																		

Table 28B. Plot 8-1 . Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	1	4	2							7
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	1	4	2							7

Table 28C. Plot 8-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	2	5									7
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	2	5									7

Table 29A. Plot 8-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	7	97±48	0.7±0.3	2.1±0.4	64	0.5	2	119	1.1	2	71	0.8	2	69	0.5	2	190	1.1	3
					56	0.4	2	112	0.5	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	38±0	0.3±0	1.0±0	38	0.3	1												
Taxodium distichum	1	46±0	0.3±0	2.0+0	46	0.3	2												
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	364																		

Table 29B. Plot 8-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 29C. Plot 8-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 30. Plot 8-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana		33±0	0.5±0	1±0	33	0.5	1												
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	411±65	7.4±2.2	3.0±0	366	5.8	3	457	8.9	3									
Quercus alba	5	47±20	0.9±0.4	1.2±0.4	46	0.6	1	25	0.5	1	48	0.8	1	36	1	1	78	1.5	2
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	51±0	2.0±0	1±0	51	2	1												
Taxodium distichum	1	122±0	1.0±0	1±0	122	1	1												
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	445																		

Table 30B. Plot 8-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	1									1
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	1									1

Table 30C. Plot 8-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	1										1
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	1										1

Table 31A. Plot 8-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	4±0	0.7±0	1.0±0	41	0.7	1												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	4	413±198	4.3±2.4	2.8±0.5	549	4.5	3	498	5.4	3	488	6.4	3	119	0.9	2			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	36±0	0.7±0	1.0±0	36	0.7	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	243																		

Table 31B. Plot 8-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 31C. Plot 8-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 32A. Plot 9-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	246±298	3.0±3.6	2.5±0.7	36	0.4	2	457	5.5	3									
Quercus alba	2	29±10	0.5±0.3	1.5±0.7	36	0.7	1	22	0.3	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	2	18±0	0.2±0	1.0±0	18	0.2	1	18	0.2	1									
Quercus michauxii																			
Quercus phellos	2	44±1	0.8±0.3	2.0±0	46	1	2	43	0.5	2									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	4	29±9	0.4±0.1	1.0±0	36	0.4	1	38	0.4	1	25.4	0.2	1	18	0.5	1			
Taxodium distichum																			
Total planted stems /plot	12																		
Total planted /acre	486																		
Total planted and volunteer stems/acre	486																		

Table 32B. Plot 9-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 32C. Plot 9-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 33A. Plot 9-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	6	633±219	8.8±4.4	2.8±0.4	762	14.0	3.0	762	11.0	3.0	610	9.5	3.0	203	0.8	2.0	762	9.5	3.0
					701	8	3												
Quercus ***falcate***																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	769																		

Table 33B. Plot 9-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	2									2
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	8	3								11
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	10	3								13

Table 33C. Plot 9-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	2										2
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	8	3									11
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	10	3									13

Table 34A. Plot 9-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	30±0	0.4±0	2.0±0	30	0.4	2												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	80±0	1.5±0	1.0±0	80	1.5	1												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	4	45±11	0.7±0.2	1.8±0.5	38	0.5	2	41	1	2	401	0.5	1	61	0.7	2			
Quercus michauxii																			
Quercus phellos	1	48±0	0.5±0	2.0±0	48	0.5	2												
Quercus rubra	2	53±3	1.0±0	1.0±0	50	1	0	55	1	0									
Quercus virginiana																			
Quercus spp.	1	41±0	1.5±0	2.0±0	41	1.5	2												
Taxodium distichum																			
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	972																		

Table 34B. Plot 9-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	14									14
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	14									14

Table 34C. Plot 9-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	7	7									14
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	7	7									14

Table 35A . Plot 9-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera	1	53±0	0.5±0	1.0±0	53	0.5	1												
Nyssa biflora																			
Platanus occidentalis	4	545±279	2.0±4.5	2.8±0.5	137	0.8	2	671	6.8	3	762	11	3	610	4.4	3			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	5																		
Total planted /acre	202																		
Total planted and volunteer stems/acre	283																		

Table 35B. Plot 9-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	1									1
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	1									1
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	2									2

Table 35C. Plot 9-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	1										1
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		1									1
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	1	1									2

Table 36A. Plot 10-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	5	30±15	1.1±0.4	1.4±0.5	28	1.3	1	23	1.5	1	20	0.5	2	56	1	2	25	1	1
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	1	48±0	1.5±0	3.0±0	48	1.5	3												
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	41±0	1.0±0	2.0±0	41	1	2												
Taxodium distichum																			
Total planted stems /plot	7																		
Total planted /acre	283																		
Total planted and volunteer stems/acre	283																		

Table 36B. Plot 10-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 36C. Plot 10-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 37A. Plot 10-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	56±9	1.0±0.4	1.7±0.6	61	1.5	2	61	0.7	2	46	0.9	1						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus alba	1	53±0	0.7±0	1.0±0	53	0.7	1												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	2	30±0	0.4±0	1.0±0	30	0.4	1	30	0.4	1									
Quercus michauxii	15	49±19	0.5±0.2	2.1±0.4	66	1	3	38	0.4	2	30	0.3	2	46	0.8	2	46	0.8	2
					33	0.4	2	61	0.6	2	102	0.7	3	41	0.2	2	31	0.6	2
					36	0.3	2	66	0.4	2	61	0.4	2	33	0.3	1	46	0.3	2
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	4	50±14	0.6±0.1	1.5±0.6	33	0.5	2	66	0.6	1	56	0.6	2	46	0.5	1			
Taxodium distichum	1	28±0	0.2±0	1.0±0	28	0.2	1												
Total planted stems /plot	26																		
Total planted /acre	1053																		
Total planted and volunteer stems/acre	1174																		

Table 37B. Plot 10-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.	1									1
Ilex opaca										
Liquidambar styraciflua	1	1								2
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	2	1								3

Table 37C. Plot 10-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.	1										1
Ilex opaca											
Liquidambar styraciflua	1	1									2
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	2	1									3

Table 38A. Plot 10-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	5	86±54	1.2±0.7	1.8±1.1	61	0.7	1	76	1.8	3	46	0.4	1	180	2.1	3	66	1.2	1
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	99±0	1.2±0	2.0±0	99	1.2	2												
Quercus falcate	1	488±0	6.5±0	3.0±0	488	6.5	3												
Quercus lyrata																			
Quercus nigra	1	25±0	0.4±0	1.0±0	25	0.4	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	3	46±3	0.5±0.1	1.7±0.6	43	0.5	2	46	0.4	2	48	0.5	1						
Taxodium distichum																			
Total planted stems /plot	11																		
Total planted /acre	445																		
Total planted and volunteer stems/acre	445																		

Table 38B. Plot 10-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 38C. Plot 10-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 39A. Plot 11-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana	3	73+14	1.0+0	0.0+0	84	1	0	77	1	0	57	1	0						
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus Occidentalism	1	70±0	1.1±0	0.0±0	70	1.1	0												
Quercus alba	1	33±0	0.6±0	1.0±0	33	0.6	1												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	38±0	0.4±0	2.0±0	38	0.4	2												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	1	40±0	0.3±0	2.0±0	40	0.3	2												
Quercus virginiana																			
Quercus spp.	1	33±0	0.4±0	1.0±0	33	0.4	1												
Taxodium distichum																			
Total planted stems /plot	8																		
Total planted /acre	324																		
Total planted and volunteer stems/acre	324																		

Table 39B. Plot 11-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 39C. Plot 11-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 40A. Plot 11-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	47±10	0.6±0.1	1.7±0.6	43	0.6	2	58	0.7	2	41	0.5	1						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	1	76±0	1.0±0	2.0±0	76	1	2												
Quercus virginiana																			
Quercus spp.	1	64±0	1.0±0	2.0±0		64	1	2											
Taxodium distichum																			
Total planted stems /plot	5																		
Total planted /acre	202																		
Total planted and volunteer stems/acre	202																		

Table 40B. Plot 11-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 40C. Plot 11-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 41. Plot 11-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana	1	56±0	0.9±0	1.0±0	56	0.9	1												
Fraxinus pennsylvanica	8	72±17	0.7±0.2	1.5±0.8	71	0.6	2	63	0.5	1	102	0.6	2	74	0.6	2	66	0.5	2
					48	0.6	1	94	0.7	61	1.2	0							
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	5	351±58	4.3±2.0	3.0±0	396	5.4	3	396	4.1	3	335	6.1	3	274	1.6	3	61	1.2	0
Quercus alba	1	32±0	0.4±0	1.0±0	32	0.4	1												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	15																		
Total planted /acre	607																		
Total planted and volunteer stems/acre	607																		

Table 41B. Plot 11-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 41C. Plot 11-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 42. Plot 11-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana	3	62±39	0.8±0.2	1.3±1.1	105	1	2	30	0.6	0	50	0.8	2						
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	5	95±33	1.1±0.2	1.4±0.9	84	0.8	1	150	1	2	96	1.4	2	63	1.2	0	83	1.2	2
Quercus alba	2	54±15	1.0±0.2	1.5±0.7	64	0.8	1	43	1.1	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	46±0	0.5±0	1.0±0	46	0.5	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	1	63±0	0.8±0	2.0±0	63	0.8	2												
Quercus virginiana																			
Quercus spp.	3	50±18	0.9±0.8	1.7±1.1	38	0.9	1	71	1.1	3	41	0.8	1						
Taxodium distichum																			
Total planted stems /plot	15																		
Total planted /acre	607																		
Total planted and volunteer stems/acre	607																		

Table 42B. Plot 11-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 42C. Plot 11-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 43A. Plot 12-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	65±8	0.6±0.1	2.0±0	74	0.6	2	63.5	0.7	2	58	0.5	2						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	427±0	4.2±0	3.0±0	427	4.2	3												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	5	58±20	0.5±0.1	2.2±0.4	48	0.6	2	84	0.5	3	69	0.6	2	61	0.6	2	30	0.3	2
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	2	80±27	1±0.7	2.5±0.7	61	0.5	2	100	1.5	3									
Taxodium distichum																			
Total planted stems /plot	11																		
Total planted /acre	445																		
Total planted and volunteer stems/acre	1174																		

Table 43B. Plot 12-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	1									1
Crataegus spp.	10									10
Ilex opaca										
Liquidambar styraciflua		4	2							6
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	11	4	2							17

Table 43C. Plot 12-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	1										1
Crataegus spp.	1	8	1								10
Ilex opaca											
Liquidambar styraciflua		5	1								6
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	2	13	2								17

Table 44. Plot 12-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	6	54±7	0.8±0.4	1.8±0.4	51	0.5	2	56	0.5	2	66	1	2	56	0.9	2	53	1.5	2
					43	0.5	1												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	5	445±82	4.2±1.6	3.0±0	518	7	3	396	3.5	3	396	3.7	3	366	3.2	3	549	3.8	3
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos		104±50	0.9±0.2	3.0±0	69	1	3	140	0.7	3									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	13																		
Total planted /acre	526																		
Total planted and volunteer stems/acre	1053																		

Table 44B. Plot 12-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.	5	1								6
Ilex opaca										
Liquidambar styraciflua		1	6							7
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	5	2	6							13

Table 44C. Plot 12-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.	1	5									6
Ilex opaca											
Liquidambar styraciflua		2	3	2							7
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	1	7	3	2							13

Table 45. Plot 12-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	279±72	3.3±1.1	2.0±0	229	2.5	2	330	4	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	4	282±15	2.4±0.6	3.0±0	274	2.4	3	274	2.1	3	274	1.8	3	305	3.3	3			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	2510																		

Table 45B. Plot 121-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.	1									1
Ilex opaca										
Liquidambar styraciflua		30	25							55
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	1	30	25							56

Table 45C. Plot 12-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.		1									1
Ilex opaca		30	25								55
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		31	25								56

Table 46A. Plot 12-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	2	43±7	0.9±0.1	2.0±0	38	0.9	2	48	0.8	2									
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus alba	1	28±0	0.6±0	2.0±0	28	0.6	2												
Quercus falcate																			
Quercus lyrata	1	38±0	0.6±0	2.0±0	38	0.6	2												
Quercus nigra	1	18±0	0.3±0	2.0±0	18	0.3	2												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	23±0	0.2±0	2.0±0	23	0.2	2												
Taxodium distichum																			
Total planted stems /plot	6																		
Total planted /acre	243																		
Total planted and volunteer stems/acre	243																		

Table 46B. Plot 12-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 46C. Plot 12-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 47A. Plot 13-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	14±10	0.9±0.1	1.0±0	17	0.9	1	2.9	1	1	23	0.7	1						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	80±0	1.2±0	2.0±0	1.2	2													
Taxodium distichum	5	61±3	0.5±0.1	2.0±0	59	0.6	2	59	0.5	2	63	0.4	2	64	0.4	2	61	0.4	2
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	405																		

Table 47B. Plot 13-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Juniperus virginiana	1									1
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	1									1

Table 47C. Plot 13-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Juniperus virginiana		1									1
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		1									1

Table 48A. Plot 13-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	22±2	0.4±0.1	1.0±0		25 0.4	1	0.4 20	0.3	1 1	22 20	0.4	1 0.3		1	22		0.4	1
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	1	78±0	0.4±0	1.0±0	78	0.4	1												
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	52±0	0.5±0	2.0±0	52	0.5	2												
Quercus michauxii																			
Quercus phellos	2	31±1	0.3±0	2.0±0	30	0.3	2	32	0.3	2									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	3	61±23	0.5±0.1	1.3±0.6	72	0.6	2	77	0.6	1	34	0.4	1						
Taxodium distichum																			
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	445																		

Table 48B. Plot 13-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		1								1
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		1								1

Table 48C. Plot 13-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	1										1
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	1										1

Table 49A. Plot 13-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	4	53±15	0.6±0.1	1.8±0.5	69	0.7	2	51	0.6	2	33	0.5	1	60	0.7	2			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	77±18	0.9±0.3	1.5±0.7	89	0.7	1	64	1.1	2									
Quercus rubra	1	68±0	1±0	2.0±0	68	1	2												
Quercus virginiana																			
Quercus spp.	7	62±43	0.8±0.3	1.4±0.5		0.5	1	16	0.8	1	95	0.8	2	110	1.2	2	95	0.8	1
						1	2	44	0.5	1	16		0.8		1		95	0.8	2
Taxodium distichum	2	42±32	0.4±0.1	2.0±0	19	0.3	2	64	0.4	2									
Total planted stems /plot	16																		
Total planted /acre	648																		
Total planted and volunteer stems/acre	648																		

Table 49B. Plot 13-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 49C. Plot 13-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 50. Plot 13-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	4	58±22	0.9±0.2	1.5±0.6	34	1.1	1	49	0.7	1	86	0.9	2	63	0.8	2			
Liriodendron tulipifera	5	160±8	1.8±0.2	1.7±0.5	13	0.6	2	15	0.2	1	25	0.2	1	32	0.3	2	18	0.2	1
Nyssa biflora																			
Platanus occidentalis	2	76±23	2.1±0.1	2.0±0	59	2	2	92	2.1	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	145±105	1.7±0.8	2.5±0.7	71	1.1	2	220	2.2	3									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	36±0	0.7±0	1.0±0	36	0.7	1												
Taxodium distichum																			
Total planted stems /plot	14																		
Total planted /acre	567																		
Total planted and volunteer stems/acre	607																		

Table 50B. Plot 13-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		1								1
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		1								1

Table 50C. Plot 13-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		1									1
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		1									1

Table 51A. Plot 14-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Betula nigra	2	53±25	0.7±0.5	2.0±0	70	0.3	2	35	1	2									
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	7	246±72	1.5±0.9	2.7±0.5	200	0.8	2	300	2.1	3	320	3	3	210	1	3	190	0.9	3
					340	2	3	160	0.5	2									
Quercus falcata																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	250±141	1.6±1.3	2.5±0.7	350	2.5	3	150	0.7	2									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	11																		
Total planted /acre	445																		
Total planted and volunteer stems/acre	14372																		

Table 51B. Plot 14-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		100								100
Betula nigra	20									20
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	100	100	10	10						220
Morella cerifera				1						1
Pinus taeda					1					1
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	120	200	10	11	1					342

Table 51C. Plot 14-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	100										100
Betula nigra	20										20
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	200	20									220
Morella cerifera		1									1
Pinus taeda			1								1
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	320	21	1								342

Table 52A. Plot 14-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	115±21	0.6±0.2	2.0±0	100	0.4	2	130	0.7	2									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	134±0	4.0±0	3.0±0	134	4	3												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	3																		
Total planted /acre	121																		
Total planted and volunteer stems/acre	17126																		

Table 52B. Plot 14-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	200	50								250
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	100	50	10	10						170
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	300	100	10	10						420

Table 52C. Plot 14-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	200	50									250
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	100	50	20								170
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	300	100	20								420

Table 53A. Plot 14-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	1	250±0	1.3±0	3.0±0	250	1.3	3												
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	1																		
Total planted /acre	40																		
Total planted and volunteer stems/acre	29190																		

Table 53B. Plot 14-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	500	100								600
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	50	50	10	10						120
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	550	150	10	10						720

Table 53C. Plot 14-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	500	100									600
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	50	50	20								120
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	550	150	20								720

Table 54A. Plot 14-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	4	135±51	0.7±0.2	2.3±0.5	210	1	3	128	0.8	2	98	0.6	2	105	0.5	2			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	4																		
Total planted /acre	162																		
Total planted and volunteer stems/acre	28097																		

Table 54B. Plot 14-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum	400	20								420
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	200	50	20							270
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	600	70	20							690

Table 54C. Plot 14-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	400	20									420
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	200	70									270
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	600	90									690

Table 55A. Plot 15-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcata	2	161±15	1.8±0.5	2.0±0		1.7 2.1	2	2.1 150	1.4 2	2	150		1.4		2				
Quercus lyrata																			
Quercus nigra	3	98±21	0.7±0.3	2.0±0	80	1	2	93	0.4	2	122	0.8	2						
Quercus michauxii																			
Quercus phellos	3	145±52	1.3±0.3	2.3±0.6	205	1.6	3	115	1.2	2	115	1	2						
Quercus rubra																			
Quercus virginiana	6	169±42	1.5±0.3	2.8±0.4	189	2.1	3	159	1.4	3	90	1.1	2	183	1.6	3	178	1.5	3
					212	1.3	3												
Quercus spp.	2	92±5	0.8±0.2	2.0±0	88	0.6	2	95	0.9	2									
Taxodium distichum																			
Total planted stems /plot	16																		
Total planted /acre	648																		
Total planted and volunteer stems/acre	850																		

Table 55B. Plot 15-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		3	2							5
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		3	2							5

Table 55C. Plot 15-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		5									5
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		5									5

Table 56A. Plot 15-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	4	210±24	1.3±0.2	3.0±0	225	1.3	3	220	1.5	3	174	1.1	3	220	1.4	3			
Quercus michauxii																			
Quercus phellos	4	199±50	1.8±0.6	2.5±0.6	265	2.1	3	210	2.5	3	160	1.5	2	160	1.2	2			
Quercus rubra																			
Quercus virginiana	3	173±101	1.8±1.4	2.3±0.6	290	3.5	3	115	1	2	115	1	2						
Quercus spp.	2	116±23	1.1±0.6	2.0±0	132	1.5	2	100	0.7	2									
Taxodium distichum																			
Total planted stems /plot	13																		
Total planted /acre	526																		
Total planted and volunteer stems/acre	1538																		

Table 56B. Plot 15-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		20	5							25
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		20	5							25

Table 56C. Plot 15-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua		25									25
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals		25									25

Table 57A. Plot 15-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	8	76±8	1.1±0.3	1.9±0.6	70	0.9	2	68	1	2	72	0.8	1	84	0.9	1	75	1.5	2
					73	1	2	75	1	2	93	1.5	3						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	143±25	1.1±0	3.0±0	125	1.1	3	160	1.1	3									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	769																		

Table 57B. Plot 15-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua		2		5						7
Morella cerifera										
Pinus taeda		2								2
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals		4		5						9

Table 57C. Plot 15-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	1	6									7
Morella cerifera											
Pinus taeda	2										2
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	3	6									9

Table 58A . Plot 15-4. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	7	79±23	1.2±0.4	1.4±0.5	66	0.9	1	46	1	1	93	1.3	2	115	1.7	2	83	1.7	1
					90	1.4	2	63	0.7	1									
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate	1	166±0	1.1±0	3.0±0	166	1.1	3												
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	131±8	0.8±0.1	2.0±0	125	0.9	2	136	0.7	2									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	40±0	0.3±0	1.0±0	40	0.3	1												
Taxodium distichum																			
Total planted stems /plot	11																		
Total planted /acre	445																		
Total planted and volunteer stems/acre	607																		

Table 58B. Plot 15-4. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca	1									1
Liquidambar styraciflua		1								1
Morella cerifera										
Pinus taeda		1	1							2
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	1	2	1							4

Table 58C. Plot 15-4. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca	1										1
Liquidambar styraciflua	1										1
Morella cerifera											
Pinus taeda	2										2
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	4										4

Table 59A. Plot 16-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	4	43±23	0.4±0.1	1.3±0.5	73	0.5	2	20	0.3	1	32	0.3	1	47	0.5	1			
Liriodendron tulipifera	1	15±0	0.3±0	1.0±0	15	0.3	1												
Nyssa biflora																			
Platanus occidentalis	2	147±3	0.8±0.4	2.5±0.7	205	0.5	3	88	1.1	2									
Quercus falcate	1	32±0	0.4±0	1.0±0	32	0.4	1												
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	2	202±40	1.2±0.3	3.0±0	174	1	3	230	1.4	3									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	1	84±0	0.8±0	2.0±0	84	0.8	2												
Taxodium distichum																			
Total planted stems /plot	11																		
Total planted /acre	445																		
Total planted and volunteer stems/acre	445																		

Table 59B. Plot 16-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 59C. Plot 16-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 60A. Plot 16-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	1	40±0	0.3±0	1.0±0	40	0.3	1												
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis	2	67±5	0.9±0.5	0.0±0	63	0.5	0	70	1.2	0									
Quercus alba	2	35±21	0.3±0	0.0±0	50	0.3	0	20	0.3	0									
Quercus falcate																			
Quercus lyrata																			
Quercus nigra	1	25±0	0.2±0	1.0±0	25	0.2	1												
Quercus michauxii																			
Quercus phellos																			
Quercus rubra	1	33±0	0.4±0	1.0±0	33	0.4	1												
Quercus virginiana																			
Quercus spp.	2	29±8	0.3±0	1±0	34	0.3	1	23	0.3	1									
Taxodium distichum																			
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	364																		

Table 60B. Plot 16-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 60C. Plot 16-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Table 61A. Plot 16-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	8	85±33	1.1±0.3	1.9±0.3	124	1.2	2	55	1	2	84	1	2	80	1.3	2	40	0.9	1
					92	1.3	2	68	0.5	2	140	1.5	2						
Liriodendron tulipifera																			
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos	3	128±7	0.8±0.3	2.0±0	134	1.1	2	130	0.6	2	120	0.6	2						
Quercus rubra																			
Quercus virginiana	1	205±0	1.2±0	3.0±0	205	1.2	3												
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	12																		
Total planted /acre	486																		
Total planted and volunteer stems/acre	729																		

Table 61B. Plot 16-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		2								2
Crataegus spp.										
Ilex opaca	1									1
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda			1							1
Prunus serotina		1	1							2
Rhus copallinum										
Salix nigra										
Totals	1	3	2							6

Table 61C. Plot 16-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	2										2
Crataegus spp.											
Ilex opaca	1										1
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda	1										1
Prunus serotina	2										2
Rhus copallinum											
Salix nigra											
Totals	6										6

Table 62A. Plot 17-1. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	3	87±41	1.2±0.5	1.7±0.6	121	1.8	2	100	1.1	2	41	0.8	1						
Liriodendron tulipifera	1	340±0	2.4±0	3.0±0	340	2.4	3												
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcata	1	59±0	0.8±0	2.0±0	59	0.8	2												
Quercus lyrata																			
Quercus nigra	1	230±0	1.1±0	3.0±0	230	1.1	3												
Quercus michauxii																			
Quercus phellos	1	210±0	1.9±0	3.0±0	210	1.9	3												
Quercus rubra																			
Quercus virginiana	2	115±21	1.0±0.1	2.0±0	130	0.9	2	100	1	2									
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	9																		
Total planted /acre	364																		
Total planted and volunteer stems/acre	526																		

Table 62B. Plot 17-1. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca	3	1								4
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	3	1								4

Table 62C. Plot 17-1. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca	4										4
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	4										4

Table 63A. Plot 17-2. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica																			
Liriodendron tulipifera	6	242±76	1.7±0.5	2.8±0.4	310	2.4	3	310	1.6	3	200	1	3	266	1.6	3	255	2	3
					110	1.8	2												
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcate																			
Quercus lyrata																			
Quercus nigra																			
Quercus michauxii																			
Quercus phellos																			
Quercus rubra																			
Quercus virginiana																			
Quercus spp.	4	181±16	1.5±0	3.0±0	170	1.5	3	170	1.5	3	205	1.5	3	180	1.5	3			
Taxodium distichum																			
Total planted stems /plot	10																		
Total planted /acre	405																		
Total planted and volunteer stems/acre	567																		

Table 63B. Plot 17-2. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum		2								2
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua	2									2
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals	2	2								4

Table 63C. Plot 17-2. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum	2										2
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua	2										2
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals	4										4

Table 64A. Plot 17-3. 2009 Monitoring Data – Little Contentnea Creek Riparian Buffer Restoration – Phase 3 – Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report.

Species	Number of Stems	Average Height (cm)	Average Diameter (cm)	Average Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status	Height (cm)	Diameter (cm)	Status
Diospyros virginiana																			
Fraxinus pennsylvanica	5	90±15	1.3±0.2	1.8±0.4	70	1.4	2	112	1.4	2	92	1	2	84	1.5	2	90	1	1
Liriodendron tulipifera	2	160±28	1.2±0.5	3.0±0	140	1.5	3	180	0.8	3									
Nyssa biflora																			
Platanus occidentalis																			
Quercus falcata	1	260±0	1.4±0	3.0±0	260	1.4	3												
Quercus lyrata																			
Quercus nigra	2	245±0	1.3±0.4	3.0±0	245	1.5	3	245	1	3									
Quercus michauxii																			
Quercus phellos	2	150±0	1.6±0	3.0±0	150	1.6	3	150	1.6	3									
Quercus rubra																			
Quercus virginiana																			
Quercus spp.																			
Taxodium distichum																			
Total planted stems /plot	12																		
Total planted /acre	486																		
Total planted and volunteer stems/acre	486																		

Table 64B. Plot 17-3. Volunteer woody stems summary by height size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc. 2009 Annual Report*.

Species	0.0<0.5 m	0.5<1.0 m	1.0<1.5 m	1.5<2.0 m	2.0<2.5 m	2.5<3.0 m	3.0<3.5 m	3.5<4.0 m	4.0<4.5 m	Totals
Acer rubrum										
Crataegus spp.										
Ilex opaca										
Liquidambar styraciflua										
Morella cerifera										
Pinus taeda										
Prunus serotina										
Rhus copallinum										
Salix nigra										
Totals										0

*No Volunteers Recorded

Table 64C. Plot 17-3. Volunteer woody stems summary by stem diameter size class. Little Contentnea Creek Riparian Buffer Restoration- Phase 3 Greene County, NC. Greene Environmental Services, Inc., 2009 Annual Report*.

Species	0.0<1.0 cm	1.0<2.5 cm	2.5<5.0 cm	5.0<10.0 cm	10.0<15.0 cm	15.0<20.0 cm	20.0<25.0 cm	25.0<30.0 cm	30.0<35.0 cm	35.0<40.0 cm	Totals
Acer rubrum											
Crataegus spp.											
Ilex opaca											
Liquidambar styraciflua											
Morella cerifera											
Pinus taeda											
Prunus serotina											
Rhus copallinum											
Salix nigra											
Totals											0

*No Volunteers Recorded

Addendum 1. Summary table of stem counts by plot for five monitoring years, 2005-2009. Data for the final year of monitoring is in bold and the change in stem counts from the first to the last monitoring effort is in italics. Little Contentnea Creek Riparian Buffer Restoration. Greene County, NC, Greene Environmental Services, Inc., 2009 Annual Report.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
1-1	1-2005	7	283	0	7	283
1-1	2-2006	5	202	1	6	243
1-1	3-2007	12	486	0	12	486
1-1	4-2008	11	445	3	14	567
1-1	**5-2009**	**10**	**405**	**0**	**10**	**405**
Δ Monitoring Year 1 to 5		*3*	*121*	*0*	*3*	*121*
1-2	1-2005	12	486	0	12	486
1-2	2-2006	10	405	0	10	405
1-2	3-2007	13	526	0	13	526
1-2	4-2008	11	445	0	11	445
1-2	**5-2009**	**8**	**324**	**0**	**8**	**324**
Δ Monitoring Year 1 to 5		*-4*	*-162*	*0*	*-4*	*-162*
1-3	1-2005	8	324	0	8	324
1-3	2-2006	9	364	0	9	364
1-3	3-2007	11	445	0	11	445
1-3	4-2008	10	405	0	10	405
1-3	**5-2009**	**8**	**324**	**0**	**8**	**324**
Δ Monitoring Year 1 to 5		*0*	*0*	*0*	*0*	*0*
2-1	1-2005	9	364	0	9	364
2-1	2-2006	8	324	0	8	324
2-1	3-2007	8	324	0	8	324
2-1	4-2008	7	283	0	7	283
2-1	**5-2009**	**9**	**364**	**0**	**9**	**364**
Δ Monitoring Year 1 to 5		*0*	*0*	*0*	*0*	*0*
2-2	1-2005	12	486	27	39	1579
2-2	2-2006	4	162	23	27	1093
2-2	3-2007	9	364	34	43	1741
2-2	4-2008	6	243	18	24	972
2-2	**5-2009**	**4**	**162**	**31**	**35**	**1417**
Δ Monitoring Year 1 to 5		*-8*	*-324*	*4*	*-4*	*-162*
2-3	1-2005	13	526	0	13	526
2-3	2-2006	13	526	2	15	607
2-3	3-2007	15	607	2	17	688
2-3	4-2008	15	607	1	16	648
2-3	**5-2009**	**9**	**364**	**1**	**10**	**405**
Δ Monitoring Year 1 to 5		*-4*	*-162*	*1*	*-3*	*-121*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
2-4	1-2005	9	364	0	9	364
2-4	2-2006	8	324	1	9	364
2-4	3-2007	9	364	0	9	364
2-4	4-2008	7	283	0	7	283
2-4	**5-2009**	**6**	**243**	**0**	**6**	**243**
Δ Monitoring Year 1 to 5		*-3*	*-121*	*0*	*-3*	*-121*
3-1	1-2005	6	243	1	7	283
3-1	2-2006	9	364	0	9	364
3-1	3-2007	10	405	115	125	5061
3-1	4-2008	10	405	10	20	810
3-1	**5-2009**	**6**	**243**	**4**	**10**	**405**
Δ Monitoring Year 1 to 5		*0*	*0*	*3*	*3*	*121*
3-2	1-2005	5	202	0	5	202
3-2	2-2006	14	567	501	515	20850
3-2	3-2007	14	567	1003	1017	41174
3-2	4-2008	14	567	303	317	12834
3-2	**5-2009**	**13**	**526**	**126**	**139**	**5628**
Δ Monitoring Year 1 to 5		*8*	*324*	*126*	*134*	*5425*
3-3	1-2005	12	486	0	12	486
3-3	2-2006	11	445	206	217	8785
3-3	3-2007	18	729	525	543	21984
3-3	4-2008	23	931	219	242	9798
3-3	**5-2009**	**13**	**526**	**113**	**126**	**5101**
Δ Monitoring Year 1 to 5		*1*	*40*	*113*	*114*	*4615*
4-1	1-2005	12	486	14	26	1053
4-1	2-2006	11	445	39	50	2024
4-1	3-2007	14	567	94	108	4372
4-1	4-2008	14	567	42	56	2267
4-1	**5-2009**	**10**	**405**	**38**	**48**	**1943**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*24*	*22*	*891*
4-2	1-2005	7	283	0	7	283
4-2	2-2006	6	243	30	36	1457
4-2	3-2007	7	283	222	229	9271
4-2	4-2008	7	283	12	19	769
4-2	**5-2009**	**3**	**121**	**2**	**5**	**202**
Δ Monitoring Year 1 to 5		*-4*	*-162*	*2*	*-2*	*-81*
4-3	1-2005	10	405	0	10	405
4-3	2-2006	10	405	5	15	607
4-3	3-2007	10	405	1	11	445
4-3	4-2008	9	364	2	11	445
4-3	**5-2009**	**9**	**364**	**1**	**10**	**405**
Δ Monitoring Year 1 to 5		*-1*	*-40*	*1*	*0*	*0*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
5-1	1-2005	11	445	6	17	688
5-1	2-2006	9	364	64	73	2955
5-1	3-2007	12	486	216	228	9231
5-1	4-2008	8	324	67	75	3036
5-1	**5-2009**	**6**	**243**	**61**	**67**	**2713**
Δ Monitoring Year 1 to 5		*-5*	*-202*	*55*	*50*	*2024*
5-2	1-2005	10	405	2	12	486
5-2	2-2006	12	486	18	30	1215
5-2	3-2007	14	567	63	77	3117
5-2	4-2008	11	445	28	39	1579
5-2	**5-2009**	**6**	**243**	**34**	**40**	**1619**
Δ Monitoring Year 1 to 5		*-4*	*-162*	*32*	*28*	*1133*
5-3	1-2005	9	364	0	9	364
5-3	2-2006	9	364	8	17	688
5-3	3-2007	12	486	108	120	4858
5-3	4-2008	10	405	25	35	1417
5-3	**5-2009**	**4**	**162**	**0**	**4**	**162**
Δ Monitoring Year 1 to 5		*-5*	*-202*	*0*	*-5*	*-202*
6-1	1-2005	8	324	0	8	324
6-1	2-2006	8	324	3	11	445
6-1	3-2007	14	567	221	235	9514
6-1	4-2008	12	486	22	34	1377
6-1	**5-2009**	**6**	**243**	**52**	**58**	**2348**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*52*	*50*	*2024*
6-2	1-2005	10	405	0	10	405
6-2	2-2006	12	486	103	115	4656
6-2	3-2007	14	567	105	119	4818
6-2	4-2008	15	607	37	52	2105
6-2	**5-2009**	**12**	**486**	**30**	**42**	**1700**
Δ Monitoring Year 1 to 5		*2*	*81*	*30*	*32*	*1296*
6-3	1-2005	12	486	0	12	486
6-3	2-2006	11	445	750	761	30810
6-3	3-2007	12	486	220	232	9393
6-3	4-2008	12	486	16	28	1134
6-3	**5-2009**	**7**	**283**	**35**	**42**	**1700**
Δ Monitoring Year 1 to 5		*-5*	*-202*	*35*	*30*	*1215*
6-4	1-2005	11	445	0	11	445
6-4	2-2006	8	324	46	54	2186
6-4	3-2007	12	486	214	226	9150
6-4	4-2008	9	364	65	74	2996
6-4	**5-2009**	**9**	**364**	**75**	**84**	**3401**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*75*	*73*	*2955*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
7-1	1-2005	10	405	0	10	405
7-1	2-2006	11	445	201	212	8583
7-1	3-2007	7	283	33	40	1619
7-1	4-2008	2	81	49	51	2065
7-1	**5-2009**	**4**	**162**	**25**	**29**	**1174**
Δ Monitoring Year 1 to 5		*-6*	*-243*	*25*	*19*	*769*
7-2	1-2005	7	283	0	7	283
7-2	2-2006	7	283	2	9	364
7-2	3-2007	8	324	3	11	445
7-2	4-2008	7	283	0	7	283
7-2	**5-2009**	**7**	**283**	**2**	**9**	**364**
Δ Monitoring Year 1 to 5		*0*	*0*	*2*	*2*	*81*
7-3	1-2005	12	486	0	12	486
7-3	2-2006	9	364	5	14	567
7-3	3-2007	8	324	2	10	405
7-3	4-2008	7	283	3	10	405
7-3	**5-2009**	**6**	**243**	**34**	**40**	**1619**
Δ Monitoring Year 1 to 5		*-6*	*-243*	*34*	*28*	*1134*
8-1	1-2005	10	405	0	10	405
8-1	2-2006	10	405	6	16	648
8-1	3-2007	13	526	3	16	648
8-1	4-2008	12	486	7	19	769
8-1	**5-2009**	**8**	**324**	**7**	**15**	**607**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*7*	*5*	*202*
8-2	1-2005	6	243	0	6	243
8-2	2-2006	3	121	0	3	121
8-2	3-2007	2	81	0	2	81
8-2	4-2008	3	121	0	3	121
8-2	**5-2009**	**9**	**364**	**0**	**9**	**364**
Δ Monitoring Year 1 to 5		*3*	*121*	*0*	*3*	*121*
8-3	1-2005	6	243	0	6	243
8-3	2-2006	6	243	4	10	405
8-3	3-2007	8	324	4	12	486
8-3	4-2008	6	243	3	9	364
8-3	**5-2009**	**10**	**405**	**1**	**11**	**445**
Δ Monitoring Year 1 to 5		*4*	*162*	*1*	*5*	*202*
8-4	1-2005	7	283	0	7	283
8-4	2-2006	8	324	4	12	486
8-4	3-2007	7	283	0	7	283
8-4	4-2008	6	243	0	6	243
8-4	**5-2009**	**6**	**243**	**0**	**6**	**243**
Δ Monitoring Year 1 to 5		*-1*	*-40*	*0*	*-1*	*-40*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
9-1	1-2005	5	202	0	5	202
9-1	2-2006	8	324	4	12	486
9-1	3-2007	12	486	2	14	567
9-1	4-2008	9	364	1	10	405
9-1	**5-2009**	**12**	**486**	**0**	**12**	**486**
Δ Monitoring Year 1 to 5		*7*	*283*	*0*	*7*	*283*
9-2	1-2005	9	364	0	9	364
9-2	2-2006	6	243	5	11	445
9-2	3-2007	12	486	7	19	769
9-2	4-2008	8	324	3	11	445
9-2	**5-2009**	**6**	**243**	**13**	**19**	**769**
Δ Monitoring Year 1 to 5		*-3*	*-121*	*13*	*10*	*405*
9-3	1-2005	7	283	0	7	283
9-3	2-2006	9	364	47	56	2267
9-3	3-2007	6	243	6	12	486
9-3	4-2008	6	243	9	15	607
9-3	**5-2009**	**10**	**405**	**14**	**24**	**972**
Δ Monitoring Year 1 to 5		*3*	*121*	*14*	*17*	*688*
9-4	1-2005	7	283	0	7	283
9-4	2-2006	5	202	1	6	243
9-4	3-2007	9	364	9	18	729
9-4	4-2008	6	243	0	6	243
9-4	**5-2009**	**5**	**202**	**2**	**7**	**283**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*2*	*0*	*0*
10-1	1-2005	5	202	0	5	202
10-1	2-2006	12	486	0	12	486
10-1	3-2007	11	445	0	11	445
10-1	4-2008	12	486	0	12	486
10-1	**5-2009**	**7**	**283**	**0**	**7**	**283**
Δ Monitoring Year 1 to 5		*2*	*81*	*0*	*2*	*81*
10-2	1-2005	8	324	0	8	324
10-2	2-2006	10	405	13	23	931
10-2	3-2007	10	405	19	29	1174
10-2	4-2008	7	283	15	22	891
10-2	**5-2009**	**26**	**1053**	**3**	**29**	**1174**
Δ Monitoring Year 1 to 5		*18*	*729*	*3*	*21*	*850*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
10-3	1-2005	5	202	0	5	202
10-3	2-2006	8	324	2	10	405
10-3	3-2007	10	405	4	14	567
10-3	4-2008	8	324	0	8	324
10-3	**5-2009**	**11**	**445**	**0**	**11**	**445**
Δ Monitoring Year 1 to 5		*6*	*243*	*0*	*6*	*243*
11-1	1-2005	1	40	0	1	40
11-1	2-2006	0	0	0	0	0
11-1	3-2007	0	0	0	0	0
11-1	4-2008	0	0	0	0	0
11-1	**5-2009**	**8**	**324**	**0**	**8**	**324**
Δ Monitoring Year 1 to 5		*7*	*283*	*0*	*7*	*283*
11-2	1-2005	5	202	1	6	243
11-2	2-2006	5	202	24	29	1174
11-2	3-2007	7	283	22	29	1174
11-2	4-2008	17	688	30	47	1903
11-2	**5-2009**	**5**	**202**	**0**	**5**	**202**
Δ Monitoring Year 1 to 5		*0*	*0*	*-1*	*-1*	*-40*
11-3	1-2005	7	283	0	7	283
11-3	2-2006	8	324	4	12	486
11-3	3-2007	9	364	1	10	405
11-3	4-2008	15	607	2	17	688
11-3	**5-2009**	**15**	**607**	**0**	**15**	**607**
Δ Monitoring Year 1 to 5		*8*	*324*	*0*	*8*	*324*
11-4	1-2005	10	405	0	10	405
11-4	2-2006	4	162	1	5	202
11-4	3-2007	6	243	0	6	243
11-4	4-2008	4	162	0	4	162
11-4	**5-2009**	**15**	**607**	**0**	**15**	**607**
Δ Monitoring Year 1 to 5		*5*	*202*	*0*	*5*	*202*
12-1	1-2005	1	40	0	1	40
12-1	2-2006	4	162	5	9	364
12-1	3-2007	5	202	7	12	486
12-1	4-2008	9	364	22	31	1255
12-1	**5-2009**	**11**	**445**	**17**	**28**	**1134**
Δ Monitoring Year 1 to 5		*10*	*405*	*17*	*27*	*1093*
12-2	1-2005	0	0	0	0	0
12-2	2-2006	9	364	7	16	648
12-2	3-2007	7	283	10	17	688
12-2	4-2008	11	445	19	30	1215
12-2	**5-2009**	**13**	**526**	**13**	**26**	**1053**
Δ Monitoring Year 1 to 5		*13*	*526*	*13*	*26*	*1053*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
12-3	1-2005	8	324	0	8	324
12-3	2-2006	2	81	59	61	2470
12-3	3-2007	4	162	45	49	1984
12-3	4-2008	9	364	47	56	2267
12-3	**5-2009**	**6**	**243**	**56**	**62**	**2510**
Δ Monitoring Year 1 to 5		*-2*	*-81*	*56*	*54*	*2186*
12-4	1-2005	13	526	0	13	526
12-4	2-2006	10	405	0	10	405
12-4	3-2007	12	486	0	12	486
12-4	4-2008	7	283	0	7	283
12-4	**5-2009**	**6**	**243**	**0**	**6**	**243**
Δ Monitoring Year 1 to 5		*-7*	*-283*	*0*	*-7*	*-283*
13-1	1-2005	3	121	0	3	121
13-1	2-2006	4	162	225	229	9271
13-1	3-2007	6	243	40	46	1862
13-1	4-2008	4	162	13	17	688
13-1	**5-2009**	**9**	**364**	**1**	**10**	**405**
Δ Monitoring Year 1 to 5		*6*	*243*	*1*	*7*	*283*
13-2	1-2005	8	324	0	8	324
13-2	2-2006	7	283	6	13	526
13-2	3-2007	15	607	3	18	729
13-2	4-2008	9	364	1	10	405
13-2	**5-2009**	**10**	**405**	**1**	**11**	**445**
Δ Monitoring Year 1 to 5		*2*	*81*	*1*	*3*	*121*
13-3	1-2005	3	121	0	3	121
13-3	2-2006	7	283	1	8	324
13-3	3-2007	10	405	0	10	405
13-3	4-2008	9	364	2	11	445
13-3	**5-2009**	**16**	**648**	**0**	**16**	**648**
Δ Monitoring Year 1 to 5		*13*	*526*	*0*	*13*	*526*
13-4	1-2005	1	40	0	1	40
13-4	2-2006	5	202	0	5	202
13-4	3-2007	6	243	0	6	243
13-4	4-2008	1	40	0	1	40
13-4	**5-2009**	**14**	**567**	**1**	**15**	**607**
Δ Monitoring Year 1 to 5		*13*	*526*	*1*	*14*	*567*

Addendum 1. Continued. Summary table of stem counts by plot for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
14-1	1-2005	5	202	0	5	202
14-1	2-2006	0	0	256	256	10364
14-1	3-2007	9	364	261	270	10931
14-1	4-2008	8	324	420	428	17328
14-1	**5-2009**	**11**	**445**	**342**	**353**	**14291**
Δ Monitoring Year 1 to 5		*6*	*243*	*342*	*348*	*14089*
14-2	1-2005	7	283	0	7	283
14-2	2-2006	1	40	713	714	28907
14-2	3-2007	7	283	311	318	12874
14-2	4-2008	8	324	577	585	23684
14-2	**5-2009**	**3**	**121**	**420**	**423**	**17126**
Δ Monitoring Year 1 to 5		*-4*	*-162*	*420*	*416*	*16842*
14-3	1-2005	8	324	0	8	324
14-3	2-2006	10	405	752	762	30850
14-3	3-2007	10	405	294	304	12308
14-3	4-2008	7	283	352	359	14534
14-3	**5-2009**	**1**	**40**	**720**	**721**	**29190**
Δ Monitoring Year 1 to 5		*-7*	*-283*	*720*	*713*	*28866*
14-4	1-2005	11	445	0	11	445
14-4	2-2006	15	607	407	422	17085
14-4	3-2007	14	567	159	173	7004
14-4	4-2008	12	486	530	542	21943
14-4	**5-2009**	**4**	**162**	**690**	**694**	**28097**
Δ Monitoring Year 1 to 5		*-7*	*-283*	*690*	*683*	*27652*
15-1	1-2005	5	202	0	5	202
15-1	2-2006	14	567	29	43	1741
15-1	3-2007	14	567	13	27	1093
15-1	4-2008	10	405	11	21	850
15-1	**5-2009**	**16**	**648**	**5**	**21**	**850**
Δ Monitoring Year 1 to 5		*11*	*445*	*5*	*16*	*648*
15-2	1-2005	2	81	0	2	81
15-2	2-2006	15	607	35	50	2024
15-2	3-2007	13	526	12	25	1012
15-2	4-2008	14	567	26	40	1619
15-2	**5-2009**	**13**	**526**	**25**	**38**	**1538**
Δ Monitoring Year 1 to 5		*11*	*445*	*25*	*36*	*1457*
15-3	1-2005	8	324	0	8	324
15-3	2-2006	13	526	25	38	1538
15-3	3-2007	12	486	15	27	1093
15-3	4-2008	7	283	12	19	769
15-3	**5-2009**	**10**	**405**	**9**	**19**	**769**
Δ Monitoring Year 1 to 5		*2*	*81*	*9*	*11*	*445*

Addendum 1. Continued. Summary table of stem counts for five monitoring years, 2005-2009.

Plot Number	Monitoring Year – Growing Season	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
15-4	1-2005	11	445	0	11	445
15-4	2-2006	15	607	7	22	891
15-4	3-2007	11	445	7	18	729
15-4	4-2008	11	445	15	26	1053
15-4	**5-2009**	**11**	**445**	**4**	**15**	**607**
Δ Monitoring Year 1 to 5		*0*	*0*	*4*	*4*	*162*
16-1	1-2005	10	405	0	10	405
16-1	2-2006	10	405	1	11	445
16-1	3-2007	9	364	1	10	405
16-1	4-2008	8	324	0	8	324
16-1	**5-2009**	**11**	**445**	**0**	**11**	**445**
Δ Monitoring Year 1 to 5		*1*	*40*	*0*	*1*	*40*
16-2	1-2005	6	243	0	6	243
16-2	2-2006	10	405	1	11	445
16-2	3-2007	7	283	0	7	283
16-2	4-2008	7	283	0	7	283
16-2	**5-2009**	**9**	**364**	**0**	**9**	**364**
Δ Monitoring Year 1 to 5		*3*	*121*	*0*	*3*	*121*
16-3	1-2005	4	162	0	4	162
16-3	2-2006	10	405	425	435	17611
16-3	3-2007	11	445	16	27	1093
16-3	4-2008	11	445	4	15	607
16-3	**5-2009**	**12**	**486**	**6**	**18**	**729**
Δ Monitoring Year 1 to 5		*8*	*324*	*6*	*14*	*567*
17-1	1-2005	8	324	0	8	324
17-1	2-2006	9	364	3	12	486
17-1	3-2007	7	283	7	14	567
17-1	4-2008	7	283	6	13	526
17-1	**5-2009**	**9**	**364**	**4**	**13**	**526**
Δ Monitoring Year 1 to 5		*1*	*40*	*4*	*5*	*202*
17-2	1-2005	5	202	0	5	202
17-2	2-2006	10	405	2	12	486
17-2	3-2007	12	486	2	14	567
17-2	4-2008	10	405	0	10	405
17-2	**5-2009**	**10**	**405**	**4**	**14**	**567**
Δ Monitoring Year 1 to 5		*5*	*202*	*4*	*9*	*364*
17-3	1-2005	5	202	0	5	202
17-3	2-2006	12	486	0	12	486
17-3	3-2007	8	324	4	12	486
17-3	4-2008	10	405	0	10	405
17-3	**5-2009**	**12**	**486**	**0**	**12**	**486**
Δ Monitoring Year 1 to 5		*7*	*283*	*0*	*7*	*283*

Addendum 2. Summary table of average stem count for all plots by monitoring year 2005-2009. Little Contentnea Creek Riparian Buffer Restoration. Greene County, NC, Greene Environmental Services, Inc., 2009 Annual Report.

Monitoring Year – Growing Season	Parameters for All Plots by Year	Number of Planted Stems Per Plot	Number of Planted Stems Per Acre	Number of Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Plot	Total Planted and Volunteer Stems Per Acre
1-2005	Average	8	305	1	8	339
	Standard Deviation	3	131	4	6	233
	Plot Count	60	60	60	60	60
2-2006	Average	8	343	85	93	3772
	Standard Deviation	4	145	186	186	7522
	Plot Count	60	60	60	60	60
3-2007	Average	10	401	74	84	3414
	Standard Deviation	3	138	161	162	6547
	Plot Count	60	60	60	60	60
4-2008	Average	9	368	51	60	2425
	Standard Deviation	4	157	125	126	5088
	Plot Count	60	60	60	60	60
5-2009	Average	9	368	50	59	2407
	Standard Deviation	4	165	142	141	5695
	Plot Count	60	60	60	60	60
	Highest Average During Five year Monitoring	10	401	85	93	7522
	Lowest Average During Five year Monitoring	8	305	1	8	339
	Change in Stem Average Stems from First to Fifth Monitoring Year	1	63	49	51	2068