

Appendix F. Bioassessment taxonomic data and metrics

Project Name:

Cherokee Watershed Bioassessment Taxa List April 2004

Site Name:

Cherokee Creek

Cottonwood Creek

Gold Run Creek

Clear Creek

Dry Creek

Site Code:

520CCC162

520CWCH99

520GRCH99

520CLC149

520DRC149

Collection Date:

4/7/2004

Transect Number:

T1 T2 T3

T1 T2 T3

T1 T2 T3

T1 T2 T3

T1 T2 T3

ABL Laboratory Number:

10939 10940 10941

10942 10943 10944

10945 10946 10947

10948 10949 10950

10951 10952 10953

			T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	T1	T2	T3	
			10939	10940	10941	10942	10943	10944	10945	10946	10947	10948	10949	10950	10951	10952	10953				
Caenidae																					
<i>Caenis sp.</i>	7	CG	-	-	4	4	6	4	-	10	20	12	23	55	-	-	-	-	-	18	18
Ephemerelellidae																					
<i>Drunella sp.</i>	0	CG	-	-	-	-	-	-	-	-	-	1	2	1	4	-	-	-	-	-	-
<i>Ephemerella sp.</i>	1	CG	-	2	-	2	-	-	-	-	-	67	76	46	189	4	-	-	-	4	4
<i>Serratella sp.</i>	2	CG	18	-	1	19	-	-	-	-	-	39	28	45	112	20	76	8	104	104	
Heptageniidae																					
<i>Epeorus sp.</i>	0	SC	-	-	-	-	-	-	-	-	-	-	3	1	4	-	8	-	8	8	
<i>Rhithrogena sp.</i>	0	SC	-	-	-	-	-	-	-	-	-	28	16	34	78	-	-	-	-	-	
Leptohyphidae																					
<i>Tricorythodes sp.</i>	4	CG	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
Siphonuridae																					
<i>Siphonurus sp.</i>	7	CG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
<u>Plecoptera</u>																					
Chloroperlidae																					
<i>Suwallia sp.</i>	1	P	-	-	-	-	-	-	-	-	-	6	29	26	61	-	-	-	-	-	-
Perlidae																					
<i>Hesperoperla sp.</i>	2	P	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	
<i>Calineuria californica</i>	2	P	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2	
Perlodidae																					
<i>Isoperla sp.</i>	2	P	-	-	-	-	-	-	-	-	-	1	3	7	11	3	27	-	30	30	
Pteronarcyidae																					
<i>Pteronarcys sp.</i>	0	OM	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1	
<u>Trichoptera</u>																					
Brachycentridae																					
<i>Micrasema sp.</i>	1	MH	-	-	-	-	-	-	-	-	-	-	-	-	6	9	-	15	15	15	
<i>Amiocentrus aspilus</i>	3	CG	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	
Helicopsychidae																					
<i>Helicopsyche sp.</i>	3	SC	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	2	2	
Hydropsychidae																					
<i>Cheumatopsyche sp.</i>	5	CF	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	
<i>Hydropsyche sp.</i>	4	CF	2	1	-	3	-	-	-	-	-	4	3	5	12	-	28	-	28	28	
Hydroptilidae																					
<i>Hydroptila sp.</i>	6	PH	19	14	6	39	-	-	2	2	-	-	-	-	-	-	-	-	-	-	
<i>Ochrotrichia sp.</i>	4	PH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	
<i>Oxyethira sp.</i>	3	PH	-	-	-	-	1	1	2	1	3	-	4	-	-	-	-	-	-	-	
<i>Ithytrichia clavata</i>	6	SC	-	-	-	-	-	-	-	-	-	16	17	18	51	-	-	-	-	-	
Leptoceridae																					
<i>Nectopsyche sp.</i>	3	OM	2	-	2	4	-	-	-	-	-	-	-	-	-	1	-	1	1	1	
Philopotamidae																					
<i>Chimarra sp.</i>	4	CF	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	1	
<i>Wormaldia sp.</i>	3	CF	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	1	1	

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Crustacea**Malacostraca**Amphipoda

Crangonyctidae

Crangonyx sp.

4 CG - - - - - - - - - - - - - - - - 2 2

Hyalellidae

Hyalella sp.

8 CG - - - - - - - 3 - 1 4 - - - - - - - -

Decapoda

Astacidae

8 CG 3 - - 3 - - - - - - - - - - - - - -

Ostracoda

8 CG - - 1 1 - 2 6 8 19 28 22 69 - - - - - - - -

Chelicerata**Arachnida**Trombidiformes

Hydryphantidae

5 P - - - - - - - - - - 1 1 1 3 - - -

Lebertiidae

8 P 10 11 4 25 - - 2 2 - - - - - 1 - 4 5

Sperchontidae

8 P 5 4 - 9 - - - - - - - - - 1 - - 1

Torrenticolidae

5 P - - - - - - - 2 - 2 - - - - - - - -

Annelida**Clitellata****Oligochaeta**

5 CG 22 26 35 83 43 64 8 115 34 18 16 68 1 - - 1 - 1 16 17

Mollusca**Bivalvia**Veneroida

Corbiculidae

Corbicula sp.

6 CF 3 4 6 13 - - - 39 1 1 41 - - - - 4 4 8

GastropodaBasommatophora

Lymnaeidae

Lanx sp.

6 SC - - - - - - - 4 4 - - - - - - - -

Physidae

Physa sp.

8 SC 4 2 2 8 29 34 87 150 42 45 74 161 5 6 2 13 - - 1 1

Total Organisms

297 290 310 897 296 293 262 851 297 303 285 885 299 312 303 914 200 294 302 796

Total Organisms Recovered

300 300 300 300 300 262 300 300 300 300 300 300 202 300 300

Extra Organisms

0 6 8 4 0 0 0 12 20 17 2 32 0 8 28

Total Picked (includes extras + QC)

301 307 311 307 316 264 304 312 321 317 303 338 202 310 332

Grids Processed

4.0 1.8 2.5 1.3 1.8 5.0 3.8 1.3 0.4 0.4 2.5 0.4 4.0 1.5 0.8

Total Grids Possible

10.0 5.0 10.0 12.0 5.0 5.0 10.0 7.0 7.0 4.0 8.0 4.0 4.0 3.0 4.0

Sorted

300 300 300 300 300 262 300 300 300 300 300 300 202 300 300

Discards

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Abundance (#/ sample)

750 886 1277 2927 857 262 800 1761 5731 3264 976 3314 202 623 1701

Average Abundance (#/ sample)

971 1349 2764 2518 842

Cherokee Watershed Bioassessment Results April 2004

Site Name: Site Code:	Cherokee Creek Canal		Cottonwood Creek		Gold Run Creek		Clear Creek		Dry Creek	
	520CCC162		520CWCH99		520GRCH99		520CLC149		520DRC149	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
<i>Taxonomic Richness</i>	14	22	10	28	12	17	15	13	16	25
<i>Cumulative Taxa</i>	21		16		16		18		35	
<i>Percent Dominant Taxon</i>	69	15	61	16	45	11	38	12	50	42
<i>Ephemeroptera Taxa</i>	3	22	1	87	1	0	6	10	4	31
<i>Plecoptera Taxa</i>	0	-	0	-	0	-	2	0	2	125
<i>Trichoptera Taxa</i>	2	25	1	100	1	87	2	25	3	96
<i>EPT Taxa</i>	5	20	2	25	2	35	10	10	9	53
<i>Cumulative EPT Taxa</i>	8		4		2		11		21	
<i>EPT Index (%)</i>	10	72	2	41	7	24	95	3	54	66
<i>Sensitive EPT Index (%)</i>	3	122	0	87	0	114	50	5	21	97
<i>Shannon Diversity</i>	1.2	32	1.2	17	1.7	9	1.8	9	1.7	29
<i>Tolerance Value</i>	5.9	2	6.4	6	6.7	3	3.1	3	4.8	22
<i>Percent Intolerant Taxa (0-2)</i>	2	136	0	-	0	-	50	5	20	98
<i>Percent Tolerant Taxa (8-10)</i>	5	51	22	68	32	22	1	47	1	94
<i>Percent Baetidae</i>	2	114	1	92	0	-	38	12	26	111
<i>Percent Chironomidae</i>	73	13	62	16	46	11	1	131	27	131
<i>Percent Hydropsychidae</i>	0	99	0	-	0	-	1	26	3	173
<i>Percent Diptera</i>	1	173	1	141	2	87	2	95	15	29
<i>Diptera Taxa</i>	0	173	1	100	1	87	2	35	2	49
<i>Percent Non-Insect Taxa</i>	16	2	33	23	40	20	2	41	4	113
<i>Non-Insect Taxa</i>	5	11	3	33	5	11	2	25	3	58
<i>Percent Collector/ Gatherers</i>	87	7	78	21	68	3	72	9	72	21
<i>Percent Collector/ Filterers</i>	2	44	0	-	5	160	3	53	16	84
<i>Percent Scrapers</i>	1	44	18	72	19	40	16	15	1	91
<i>Percent Predators</i>	5	58	4	85	8	64	9	60	9	49
<i>Percent Shredders</i>	0	-	0	-	0	-	0	-	0	-
<i>Percent Omnivores</i>	0	87	0	-	0	-	0	-	0	173
<i>Percent Piercer Herbivore</i>	4	52	0	119	0	114	0	-	0	173
<i>Abundance (#/ sample)</i>	971	28	1349	104	2764	95	2518	53	842	92