

MILLIKEN CREEK

Date 4/20/2002

ID MIL22002

Site Description Above reservoir

Elevation (ft) 924

Reach Length (ft) 290

Chemical Characteristics

Water Temp (C/F)	11.6	53
Specific Conductivity	91	
pH	6.3	
Dissolved Oxygen (mg/L)	12.3	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	24
Riffle Width (ft)	10.2
Riffle Depth (ft)	0.3
Riffle Velocity (ft/sec)	1.2
Gradient (%)	4.8
Riffle Substrate (%)	
<i>Fines</i>	7
<i>Gravel</i>	27
<i>Cobble</i>	38
<i>Boulder</i>	22
<i>Bedrock</i>	7

Consolidation Loose

Habitat Characteristics

Canopy Cover (%)	57	
<u>Scale 0-20</u>		
Substrate	14	Suboptimal
Embeddedness	18	Optimal
Substrate Complexity	14	Suboptimal
Velocity/Depth Regime	15	Suboptimal
Sediment Deposition	18	Optimal
Water Flow	20	Optimal
Channel Alteration	20	Optimal
Riffle Frequency	18	Optimal

Scale 0-10

Bank Stability (Left)	9	Optimal
Bank Stability (Right)	9	Optimal
Vegetation (Right)	9	Optimal
Riparian (Right)	9	Optimal
Vegetation (Left)	9	Optimal
Riparian (Left)	9	Optimal

Total Habitat Score 177 Optimal

0-50 = Poor

51-100 = Marginal

101-150 = Suboptimal

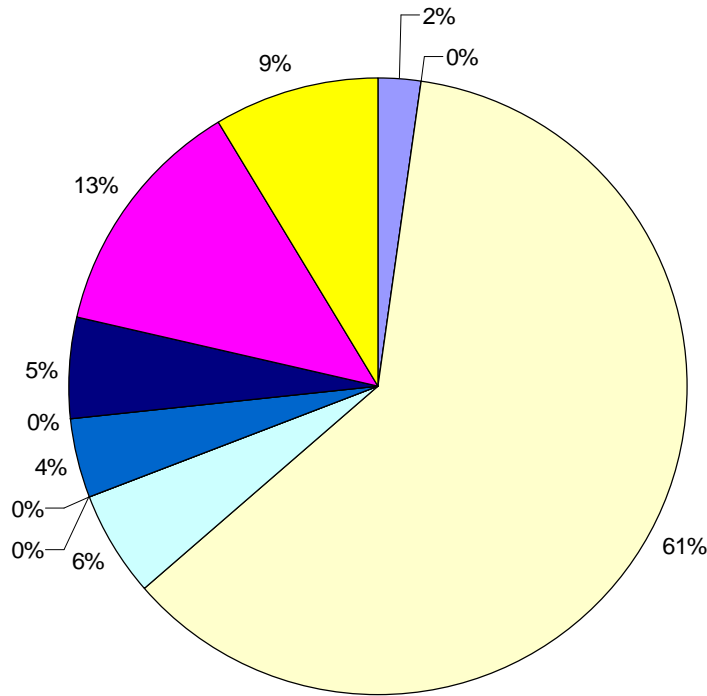
151-200 = Optimal



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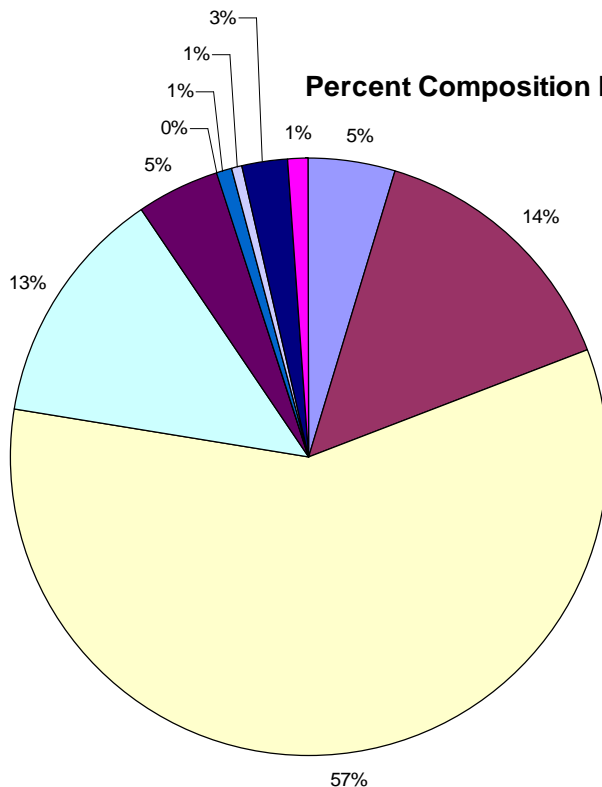
Benthic Macroinvertebrate Characteristics

Abundance	8,362	Percent Dominant Taxa	43.11	Index of Biological Integrity (IBI) 17 5-11 = Poor 12-18 = Fair 19-25 = Good
Number of Taxa	60	Number of Tolerant Taxa	2	
Number of Taxa (CA)	57	Percent Tolerant Taxa	1.82	
Number of EPT	26	Number of Intolerant Taxa	19	
Hilsenhoff	5.05	Percent Intolerant Taxa	10.84	



Percent Composition by Taxa

- Non-insect invertebrates
- Odonata (dragon & damselflies)
- Ephemeroptera (mayflies)
- Plecoptera (stoneflies)
- Hemiptera (true bugs)
- Megaloptera (alderflies & hellgramites)
- Trichoptera (caddisflies)
- Lepidoptera (aquatic moths)
- Coleoptera (aquatic beetles)
- Diptera- non midge (true flies)
- Diptera-Chironomidae (midges)



Percent Composition by Functional Feeding Group

- Shredder
- Scrapper
- Collector-gatherer
- Collector-filterer
- Predator
- Macrophyte-herbivore
- Piercer-herbivore
- Parasite
- Omnivore
- Other