MILL CREEK

Date 4/18/2002 **ID** MILL2002

Site Description Old Bale Park **Elevation (ft)** 410

Reach Length (ft) 299

Chemical Characteristics

Water Temp (C/F)	9.3	49
Specific Conductivity	155	
pH	6.5	
Dissolved Oxygen (mg/L)	11	

Physical Characteristics

(Average values for 3 riffles)

Riffle Length (ft)	50
Riffle Width (ft)	6
Riffle Depth (ft)	0.4
Riffle Velocity (ft/sec)	1.3
Gradient (%)	7.6
Riffle Substrate (%)	
Fines	10
Gravel	17
Cobble	20
Boulder	53
Bedrock	0
Consolidation	Loose

Habitat Characteristics

Canopy Cover (%)	100	
Scale 0-20		
Substrate	18	Optimal
Embeddedness	18	Optimal
Substrate Complexity	18	Optimal
Velocity/Depth Regime	20	Optimal
Sediment Deposition	19	Optimal
Water Flow	17	Optimal
Channel Alteration	20	Optimal
Riffle Frequency	19	Optimal
Scale 0-10		
Bank Stability (Left)	9	Optimal
Bank Stability (Right)	8	Suboptimal
Vegetation (Right)	8	Suboptimal
Riparian (Right)	10	Optimal
Vegetation (Left)	8	Suboptimal
Riparian (Left)	10	Optimal
Total Habitat Score	184	Optimal

0-50 = Poor
51-100 = Marginal
101-150 = Suboptimal
151-200 = Optimal

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Benthic Macroinvertebrate Characteristics

Abundance	2,611	**Percent Dominant Taxa**	14.27	**Index of Biological Integrity (IBI)**
Number of Taxa	76	**Number of Tolerant Taxa**	4	
Number of Taxa (CA)	71	**Percent Tolerant Taxa**	0.79	**25**
Number of EPT	35	**Number of Intolerant Taxa**	26	**5-11 = Poor** **12-18 = Fair**
Hilsenhoff	4.17	**Percent Intolerant Taxa**	26.52	**19-25 = Good**