

Biomonitoring and Aquatic Studies Section

Stevensville Brook 2.1

Ambient Biomonitoring Summary Report

Town: Underhill

Site ID 461143000021

WBID: VT07-11

Drainage Area (km2): 5.2

Latitude: 44.50583

Longitude 72.84583

Elevation (ft): 1400

Description: Located above bridge at parking area for Nebraska Notch trail, about 50m.

Sample Date	9/24/1993	10/12/1994	9/29/1995	9/23/1996	9/24/1997	9/24/1998	9/20/1999	9/13/2000	9/13/2002	9/11/2007
Lab ID	1993.094	1994.055	1995.053	1996.076	1997.146	1998.101	1999.180	2000.186	2002.065	2007.034
Sampling Method	KN	KN	KN	KN	KN	KN	KN	KN	KN	KN
* Density/Unit	376	931	151	474	436	260	219	464	766	864
* Species Richness	35.5	39	25	38	36	31	38	39	42	42
* EPT Richness	21	24.5	16	21	19	17	22	20	21	18
EPT/Richness	0.59	0.63	0.64	0.55	0.48	0.55	0.58	0.51	0.5	0.43
E / P / T Richness	4 / 9 / 11	5 / 10 / 16	2 / 9 / 10	4 / 7 / 10	4 / 6 / 9	2 / 9 / 7	7 / 6 / 9	4 / 6 / 10	4 / 7 / 10	4 / 6 / 8
* EPT / EPTChiro	0.95	0.97	0.92	0.9	0.82	0.84	0.89	0.72	0.71	0.79
BI (0-5)	0.65	0.63	0.66	1.15	0.76	0.74	1.02	1.21	1.49	1.34
* BI (0-10)	0.73	1.02	1.2	1.94	1.16	1.21	1.81	1.93	2.61	2.36
Diversity	3.65	3.67	3.63	4.15	3.68	3.68	4.38	4.34	4.2	4.21
Hydopsy %	2.53	1.72	1.66	2.53	1.45	0	0	1.94	2.51	2.55
Dominant Taxa %	22.5	25.5	25.6	19.4	26.4	27.7	18.7	20.7	13.2	18.8
Dominant 3 Taxa %	62.2	56.2	53.8	41.1	54.8	55.8	38.4	42.7	37.9	46.5
Coleoptera %	0.5	0.3	0.5	0	0	0.4	1.4	1	0.3	1.9
Diptera %	8.5	5	23.1	19.4	21.7	20.8	15.5	32	33.9	24.5
Ephemeroptera %	2.8	5.8	0.7	25.9	7.8	1.5	22.8	7.1	13.8	21.5
Trichoptera %	21.8	13.2	24.6	16.2	16.8	11.5	23.7	23	13.8	9.3
Plecoptera %	66	75.3	50.3	38.2	53	65.8	35.2	36.9	36.7	39.1
* Oligochaeta %	0	0.2	0	0	0.6	0	0	0	1.3	3.7
OtherOrders %	0.4	0.3	0.8	0.2	0	0	1.4	0	0.3	0
* PMA-O1	55.1	45.9	66.3	79.7	65.6	54	85	71.6	68.9	73.6
Collector Gatherer %	5.3	7	6.5	31.6	23.5	15.4	17.8	27.5	37	41.9
Collector Filterer %	10.4	5	23.3	14.3	12.2	5.8	12.3	10	12.2	5.1
Predator %	28.6	16.1	32.5	31.4	35.1	38.5	22.4	35.3	20.4	21.3
Shredder - Detritus %	53.5	69.9	35.3	20.3	28.1	39.6	32	22.7	26	27.8
Shredder - Herbivore %	0.4	0.1	0.7	0	0	0.4	1.4	1.6	0.6	0.2
Scraper %	0.9	0.6	1.2	0.4	0	0.4	4.1	0.3	0.6	2.8
* PPCS-F1	0.36	0.29	0.47	0.49	0.42	0.35	0.59	0.54	0.61	0.48
Community Assessmt	Good	Fair	Fair	Vgood	Good	Fair	Fair	Vgood	Exc	Good

* = Most important metrics