

Biomonitoring and Aquatic Studies Section

Browns River 31.0

Ambient Biomonitoring Summary Report

Town: Underhill

Site ID 461100000310

WBID: VT07-11

Drainage Area (km2): 6.1

Latitude: 44.52417

Longitude 72.85278

Elevation (ft): 1400

Description: Located above last bridge about .25mi before State Park Gate, just above small dirt road to right (sugar rd?).

Sample Date	10/19/1992	9/24/1993	10/12/1994	9/29/1995	9/23/1996	9/24/1997	9/24/1998	9/13/2000	9/13/2002	9/11/2007
Lab ID	1992.097	1993.092	1994.056	1995.052	1996.075	1997.145	1998.102	2000.185	2002.066	2007.033
Sampling Method	KN	KN	KN	KN	KN	KN	KN	KN	KN	KN
* Density/Unit	2262	495	763	208	1245	909	179	582	1005	651
* Species Richness	27.5	32	32.5	30.5	29	35	22	36	34	29
* EPT Richness	15.5	20	24	19	16	21	15	18	20	13
EPT/Richness	0.59	0.64	0.74	0.62	0.55	0.6	0.68	0.5	0.62	0.45
E / P / T Richness	5 / 9 / 11	8 / 7 / 9	7 / 10 / 10	4 / 8 / 10	5 / 6 / 6	6 / 8 / 7	4 / 7 / 4	6 / 6 / 6	7 / 7 / 6	3 / 6 / 4
* EPT / EPTChiro	0.54	0.93	0.99	0.93	0.94	0.77	0.94	0.91	0.81	0.94
BI (0-5)	1.94	0.92	0.76	0.85	0.68	1.19	0.64	0.98	1.53	1.24
* BI (0-10)	3.73	1.38	1.2	1.27	0.91	2.09	1.05	1.72	2.79	2.31
Diversity	3.12	3.8	3.92	3.75	3.62	4.03	3.6	3.78	4.28	3.38
Hydopsy %	1.32	1.64	1.1	1.19	0	2.05	0	0	0.34	0.53
Dominant Taxa %	38	20.1	18.3	29.9	22.3	21.7	24.6	37.8	15	26.8
Dominant 3 Taxa %	66.2	55	42.9	52.3	51.2	41.6	55.3	51.4	38.6	61.3
Coleoptera %	0.8	3.9	1.8	0.9	0.6	0.6	0.6	1.6	2.4	1.3
Diptera %	46.6	13	6	13.4	9.6	24.3	8.4	14	28.3	12.4
Ephemeroptera %	29.7	11.2	29.9	11.5	27.8	25.2	26.8	25.1	29.4	36.3
Trichoptera %	10.3	31.3	18.4	19	20.9	17.3	15.1	8.9	10.9	6.8
Plecoptera %	12.6	40	43.8	55	41	32.3	49.2	50.2	28.3	42.4
* Oligochaeta %	0	0.2	0.1	0	0	0.3	0	0.3	0	0.8
OtherOrders %	0.1	0.5	0	0.2	0	0	0	0	0.7	0
* PMA-O1	66.1	77.7	70.8	66.3	75.6	81.7	68.5	69.3	76.8	65.5
Collector Gatherer %	74.2	15.2	28.4	16.6	30.9	41.3	30.2	21.3	40.6	41.8
Collector Filterer %	6.5	8.2	4	9.2	17.1	7	5	5.7	14.7	10
Predator %	11.3	30	20.9	38.6	29.8	26.7	40.2	47.9	24.6	21.1
Shredder - Detritus %	6.7	39.6	39.7	32.4	20.1	19.4	22.9	11.7	13.7	25.5
Shredder - Herbivore %	0.1	0.5	0	0.8	0	0	0	1	0.7	0
Scraper %	0.9	4.7	4.4	1.2	0.6	0.9	1.1	1.9	2.4	1.1
* PPCS-F1	0.33	0.47	0.44	0.47	0.47	0.44	0.4	0.57	0.7	0.48
Community Assessmt	Fair	Vgood	Vgood	Fair	Good	Vgood	Fair	Good	Ex-Vgood	Fair

* = Most important metrics