



## FAMILY PHILOPOTAMIDAE

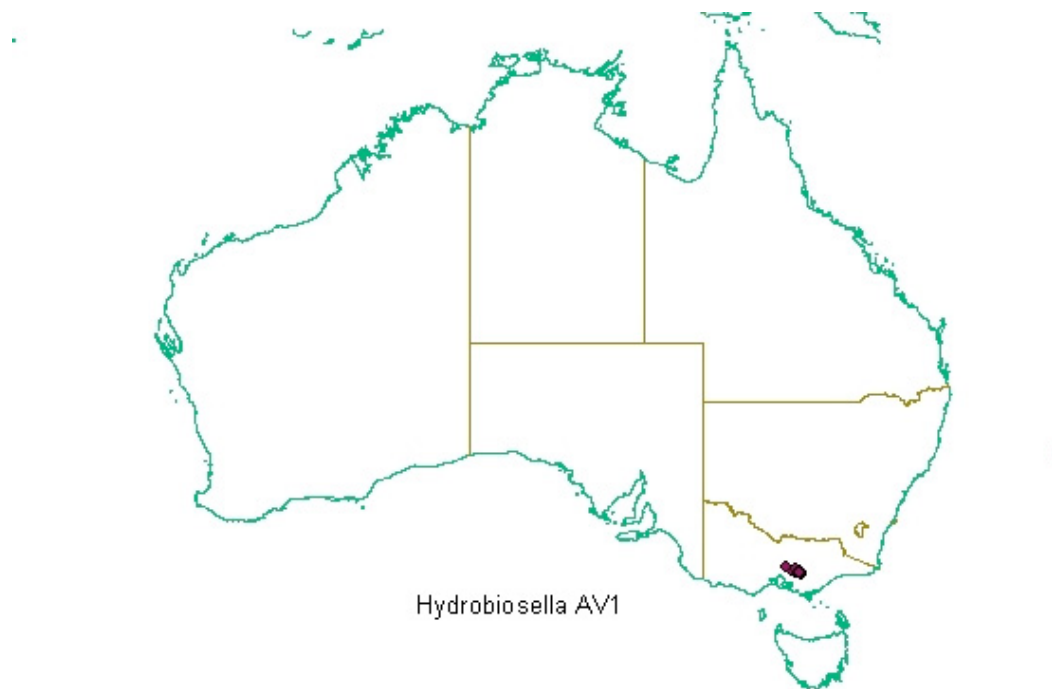
### Habitat profile for *Hydrobiosella* sp. AV1

*Hydrobiosella* sp. AV1 was recorded from 31 Victorian samples in this study.

Generally *Hydrobiosella* sp. AV1 was recorded in kick habitat samples from streams at low to moderate altitudes between 160-800 m (Chart a), a short distance from the source between 2.4-13 km (Chart b), with predominantly larger sized substrate of cobbles (Chart c). The streams were small stream between 2-8 m wide (Chart d), <0.3m deep (Chart e) with low alkalinity between 5-22 mg/L (Chart f) and low conductivity <55  $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: cool to moderate recorded water temperatures between 8-15.5°C, circum-neutral pH in the range of 6-8, and low turbidity (<11 NTU).

Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Hydrobiosella* sp AV1 in Australia.

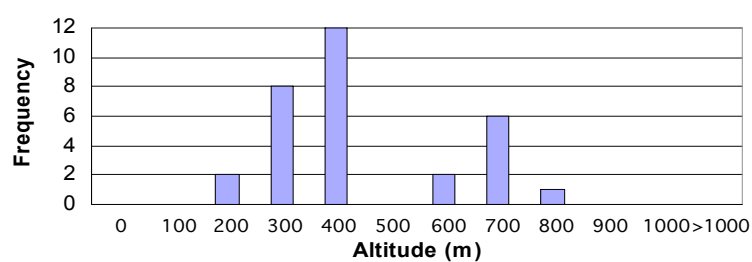


## Typical habitat of *Hydrobiosella* sp AV1

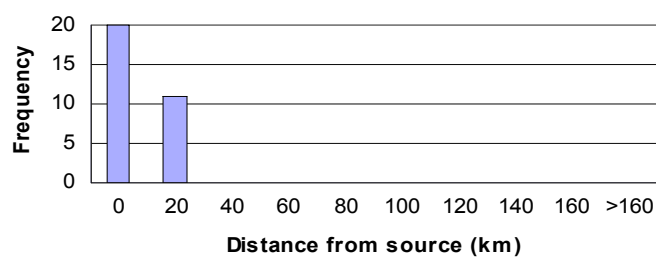


## Charts for *Hydrobiosella* spAV1

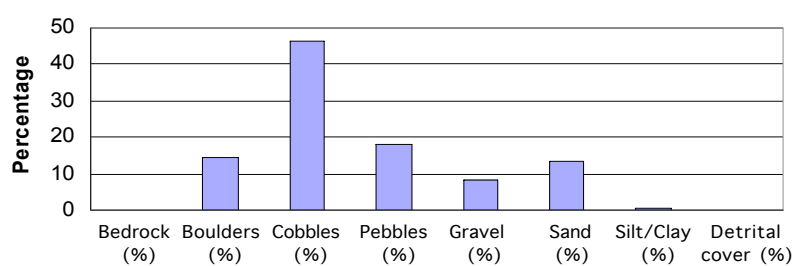
### a) Altitude



### b) Distance from source

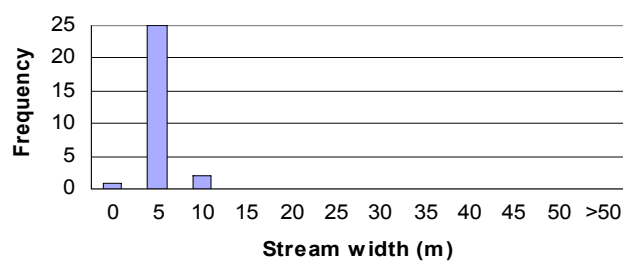


### c) Substrate Particle Size

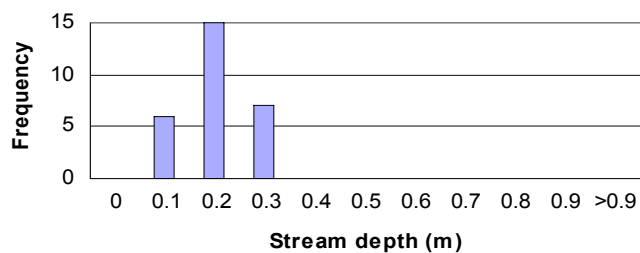




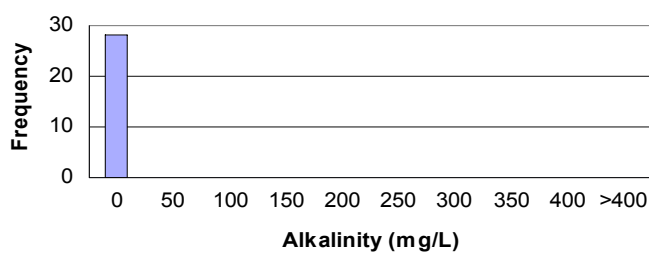
d) Stream Width



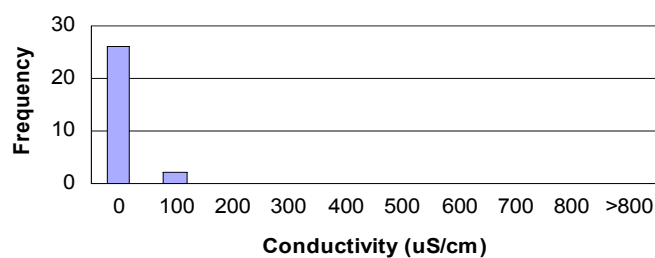
e) Depth



f) Alkalinity



g) Conductivity





**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV1 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	445	400	160-800	31
Distance from source (km)	8.4	8.2	2.4-13	31
Stream width (m)	4.5	4.7	2-8	28
Stream depth (m)	0.19	0.2	0.08-0.29	28
Water temperature (°C)	11.4	11.7	8-15.5	28
Conductivity (µS/cm)	29	31	0-54	28
pH	7.1	7.2	6-8	27
Alkalinity (mg/L)	8.5	7	5-22	28
Turbidity (NTU)	3.8	2.7	0.5-11	27
Total N (mg/L)				
NO <sub>3</sub> -N (mg/L)	0.20	0.21	0.009-0.31	28
Total P (mg/L)	0.02	0.02	0.006-0.06	24