

Table 4.5 SIMPER comparison for presence/absence transformed taxa between Reference Groups 1, 2 and 3. d_i is the contribution of the i th taxon to the average Bray-Curtis dissimilarity, d , between two Reference Groups, which is expressed as cumulative percentage ($\sum d_i$ %) to a maximum of 50%. Taxa are listed in decreasing order of importance in contribution to d . The taxon with the greater abundance is indicated with a $\blacklozenge$.

AVERAGE DISSIMILARITY BETWEEN REFERENCE GROUPS 1 AND 2 = 32.5%				
Taxon	Group 1	Group 2	d_i	$\sum d_i$ %
Sphaeriidae	$\blacklozenge$		3.95	3.95
Psychomyiidae		$\blacklozenge$	3.35	7.29
Planorbidae	$\blacklozenge$		3.04	10.34
Calopterygidae	$\blacklozenge$		2.85	13.19
Hydraenidae	$\blacklozenge$		2.71	15.9
Philopotamidae	$\blacklozenge$		2.61	18.51
Dytiscidae	$\blacklozenge$		2.57	21.08
Culicidae	$\blacklozenge$		2.56	23.64
Physidae	$\blacklozenge$		2.44	26.08
Hydroptilidae	$\blacklozenge$		2.41	28.48
Pleidae	$\blacklozenge$		2.39	30.88
Trichoptera (Cased caddis 1 type)	$\blacklozenge$		2.31	33.19
Perlidae		$\blacklozenge$	2.31	35.5
Naucoridae	$\blacklozenge$		2.28	37.79
Helodidae (larvae)		$\blacklozenge$	2.23	40.01
Dixidae	$\blacklozenge$		2.22	42.24
Trichoptera (Cased caddis 2 types)		$\blacklozenge$	2.17	44.4
Notonectidae	$\blacklozenge$		2.12	46.53
Athericidae		$\blacklozenge$	2.12	48.64
Libellulidae	$\blacklozenge$		2.11	50.75
AVERAGE DISSIMILARITY BETWEEN GROUPS 1 AND 3 = 37.2%				
Taxon	Group 1	Group 3	d_i	$\sum d_i$ %
Hydropsychidae (2 types)	$\blacklozenge$		3.33	3.33
Psephenidae	$\blacklozenge$		3.25	6.58
Planorbidae	$\blacklozenge$		3.07	9.65
Aeshnidae	$\blacklozenge$		3.04	12.7
Brachyura (Crabs)	$\blacklozenge$		3.01	15.71
Belastomatidae		$\blacklozenge$	2.97	18.67
Corduliidae		$\blacklozenge$	2.6	21.28
Trichoptera (Cased caddis 3 types)		$\blacklozenge$	2.46	23.74
Natantia (Shrimps)		$\blacklozenge$	2.45	26.19
Ancylidae	$\blacklozenge$		2.43	28.62

Table 4.5.cont.

Taxon	Group 1	Group 3	d	S d %
Calopterygidae	◆		2.34	30.96
Hydropsychidae (1 type)		◆	2.33	33.3
Tipulidae	◆		2.31	35.6
Culicidae	◆		2.21	37.81
Trichoptera (Cased caddis 1 type)	◆		2.17	39.98
Planariidae	◆		2.13	42.11
Physidae	◆		2.13	44.25
Philopotamidae	◆		2.12	46.36
Athericidae	◆		2.04	48.4
Chlorocyphidae	◆		2.02	50.42
AVERAGE DISSIMILARITY BETWEEN GROUPS 2 AND 3 = 40.5%				
Taxon	Group 2	Group 3	d	S d %
Belastomatidae		◆	2.88	2.88
Hydraenidae		◆	2.8	5.68
Brachyura (Crabs)	◆		2.79	8.47
Psephenidae	◆		2.75	11.22
Athericidae	◆		2.7	13.92
Aeshnidae	◆		2.61	16.53
Natantia (Shrimps)		◆	2.52	19.05
Dytiscidae		◆	2.49	21.54
Sphaeridae		◆	2.48	24.02
Trichoptera (Cased caddis 3 types)		◆	2.35	26.37
Tipulidae	◆		2.34	28.71
Ancylidae	◆		2.33	31.04
Corduliidae		◆	2.28	33.32
Hydropsychidae (1 type)		◆	2.27	35.59
Naucoridae		◆	2.21	37.81
Hydropsychidae (2 types)	◆		2.2	40.01
Notonectidae		◆	2.12	42.13
Planariidae	◆		2.08	44.22
Chlorocyphidae	◆		2.04	46.26
Psychomyiidae	◆		2.03	48.29
Hydroptilidae		◆	2.02	50.3