Appendix F

Community Measures at Embayment Sites

Community measures for embayment sampling sites. Abundance and number of taxa are for 0.1-m^2 Van Veen grab samples. The Shannon-Wiener Diversity Index (Shannon) was calculated using $\log_e$; therefore, the units are nats. Evenness is the ratio of the observed Shannon diversity to the maximum, given the same no. of taxa (Pielou 1969). Dominance is the minimum number of species whose combined abundance is equal to 75% of the individuals in the sample (Swartz *et al.* 1986). The Benthic Line of Evidence (BLOE; Ranasinghe *et al.* 2009) and condition categories are explained in Chapter 2. RL: Response Level; NA: No validated condition evaluation measure available (see Chapter 2).

Site	Stratum	Abundance (0.1 m2)	No. of Taxa (0.1 m2)	Shannon (nats)	Evenness	Dominance	Benthic LOE	Condition
6001	Estuaries	11	6	1.59	0.89	4	4	RL 3
6004	Estuaries	51	14	2.01	0.74	4	3	RL 2
6009	Estuaries	3694	29	0.23	0.07	1	3	RL 2
6010	Estuaries	3972	15	0.10	0.04	1	4	RL 3
6012	Estuaries	1508	7	0.52	0.27	1	4	RL 3
6015	Bays	658	51	3.05	0.78	12	2	RL 1
6017	Bays	575	34	2.76	0.78	9	2	RL 1
6025	Marinas	342	27	2.25	0.68	6	3	RL 2
6027	Marinas	177	27	2.75	0.83	10	3	RL 2
6031	Bays	1193	48	2.37	0.61	6	2	RL 1
6039	Bays	170	27	2.48	0.75	8	2	RL 1
6040	Bays	314	27	1.82	0.55	4	3	RL 2
6041	Bays	304	32	2.49	0.72	7	3	RL 2
6042	Ports	50	20	2.73	0.91	10	3	RL 2
6044	Estuaries	62	18	2.23	0.77	5	3	RL 2
6045	Estuaries	108	19	2.23	0.76	6	3	RL 2
6046	Estuaries	657	30	0.97	0.28	1	3	RL 2
6047	Estuaries	687	54	2.82	0.71	10	2	RL 1
6049	Estuaries	274	22	2.06	0.67	5	3	RL 2
6052	Estuaries	1246	60	3.08	0.75	11	1	Reference
6054	Ports	292	31	2.52	0.74	6	3	RL 2
6057	Estuaries	839	47	3.00	0.78	12	2	RL 1
6060	Estuaries	1799	39	1.81	0.49	4	3	RL 2
6065	Estuaries	1549	42	2.50	0.67	6	3	RL 2
6068	Ports	553	36	2.27	0.63	5	2	RL 1
6069	Estuaries	533	22	1.92	0.62	4	4	RL 3
6071	Bays	684	47	2.78	0.72	10	2	RL 1
6072	Ports	1181	53	2.42	0.61	5	2	RL 1
6075	Ports	2042	72	2.53	0.59	7	2	RL 1
6080	Bays	501	45	2.71	0.71	8	2	RL 1
6083	Bays	151	31	2.76	0.81	9	2	RL 1
6084	Bays	1447	58	2.45	0.60	7	1	Reference

Site	Stratum	Abun-dance (0.1 m2)	No. of Taxa (0.1 m2)	Shannon (nats)	Even-ness	Domi-nance	Benthic LOE	Condition
6085	Ports	115	27	2.40	0.73	7	3	RL 2
6086	Ports	355	39	2.54	0.69	7	2	RL 1
6087	Ports	182	35	2.92	0.82	12	2	RL 1
6090	Bays	551	44	2.48	0.65	7	1	Reference
6093	Bays	1717	79	3.07	0.70	11	2	RL 1
6094	Ports	272	43	2.74	0.73	8	2	RL 1
6106	Bays	181	39	3.12	0.85	13	1	Reference
6110	Ports	222	37	2.87	0.80	11	1	Reference
6113	Ports	138	34	3.06	0.87	11	2	RL 1
6115	Ports	675	40	2.14	0.58	5	2	RL 1
6116	Ports	300	32	2.66	0.77	7	3	RL 2
6119	Ports	908	55	2.61	0.65	8	2	RL 1
6120	Ports	849	38	1.65	0.45	3	3	RL 2
6125	Ports	391	37	2.66	0.74	9	2	RL 1
6127	Ports	205	32	2.77	0.80	8	2	RL 1
6128	Ports	512	87	3.47	0.78	19	1	Reference
6129	Ports	620	69	3.32	0.78	14	1	Reference
6130	Ports	723	71	3.23	0.76	13	1	Reference
6133	Ports	70	22	2.45	0.79	7	3	RL 2
6134	Bays	532	52	3.23	0.82	14	1	Reference
6136	Bays	677	69	3.43	0.81	15	2	RL 1
6138	Bays	1825	84	2.22	0.50	5	1	Reference
6140	Ports	508	49	2.45	0.63	8	2	RL 1
6145	Marinas	332	40	2.71	0.74	8	2	RL 1
6148	Marinas	422	39	2.67	0.73	7	3	RL 2
6151	Marinas	830	57	2.91	0.72	11	2	RL 1
6152	Bays	820	66	3.35	0.80	15	1	Reference
6153	Marinas	208	26	2.58	0.79	7	3	RL 2
6154	Ports	560	55	2.99	0.75	10	2	RL 1
6155	Ports	818	73	3.27	0.76	12	1	Reference
6156	Ports	742	43	2.69	0.71	8	1	Reference
6157	Marinas	152	31	2.60	0.76	7	3	RL 2
6159	Marinas	378	28	2.06	0.62	4	2	RL 1
6161	Marinas	97	21	2.22	0.73	5	3	RL 2
6165	Marinas	329	50	3.24	0.83	14	1	Reference
6168	Marinas	174	26	2.48	0.76	7	2	RL 1
6171	Marinas	30	12	2.14	0.86	6	3	RL 2
6172	Bays	1065	60	2.65	0.65	8	1	Reference
6173	Marinas	450	42	2.93	0.78	10	1	Reference
6174	Marinas	252	45	3.20	0.84	12	2	RL 1
6177	Marinas	151	16	2.23	0.81	6	3	RL 2
6179	Marinas	436	53	3.13	0.79	11	2	RL 1
6180	Marinas	675	35	2.32	0.65	7	2	RL 1
6181	Estuaries	168	26	2.08	0.64	6	3	RL 2
6189	Estuaries	256	20	1.65	0.55	3	4	RL 3
6192	Estuaries	1196	16	1.38	0.50	2	3	RL 2

Site	Stratum	Abun-dance (0.1 m2)	No. of Taxa (0.1 m2)	Shannon (nats)	Even-ness	Domi-nance	Benthic LOE	Condition
6197	Estuaries	2317	23	1.72	0.55	3		NA
6200	Estuaries	1769	15	1.45	0.54	3		NA
6204	Marinas	1927	76	2.89	0.67	10	2	RL 1
6211	Marinas	3392	131	3.47	0.71	18	2	RL 1
6212	Bays	539	73	2.31	0.54	10	1	Reference
6213	Marinas	541	63	3.30	0.80	14	1	Reference
6216	Marinas	935	60	3.10	0.76	13	1	Reference
6217	Bays	1000	51	2.87	0.73	10	2	RL 1
6219	Bays	1401	48	2.50	0.65	6	2	RL 1
6223	Bays	9166	60	2.19	0.53	5	2	RL 1
6228	Estuaries	815	18	1.40	0.48	3		NA
6229	Estuaries	604	21	1.91	0.63	4	3	RL 2
6230	Estuaries	826	24	2.21	0.69	5	2	RL 1
6232	Estuaries	567	32	1.83	0.53	3	3	RL 2
6236	Estuaries	894	46	2.29	0.60	5	3	RL 2
6239	Estuaries	649	8	0.88	0.42	1		NA
6242	Estuaries	5	3	0.95	0.69	2	4	RL 3
6243	Estuaries	439	19	1.41	0.48	2	3	RL 2
6244	Estuaries	13	3	0.54	0.49	1	4	RL 3
6245	Estuaries	125	13	1.24	0.48	2	4	RL 3
6250	Estuaries	81	12	1.47	0.59	2	3	RL 2
6251	Estuaries	10	5	1.47	0.82	3	4	RL 3
6252	Estuaries	19	7	1.73	0.83	4	4	RL 3
6253	Estuaries	2108	64	2.47	0.59	6	2	RL 1
6264	Estuaries	43	7	1.21	0.58	2	4	RL 3
6269	Estuaries	85	18	2.36	0.82	6	3	RL 2
6270	Estuaries	253	15	1.07	0.40	1	3	RL 2
6271	Estuaries	131	12	1.33	0.54	2	4	RL 3
6280	Estuaries	176	23	2.39	0.76	6		NA
6282	Estuaries	142	48	3.48	0.90	20	1	Reference
6288	Marinas	242	33	2.55	0.73	6	3	RL 2
6291	Marinas	3	3	1.10	0.79	3	4	RL 3
6294	Marinas	492	79	3.32	0.76	18	1	Reference
6303	Estuaries	17	9	1.93	0.84	5	4	RL 3
6308	Estuaries	80	18	1.91	0.66	5	2	RL 1
6311	Estuaries	335	20	1.53	0.51	2	2	RL 1
6314	Estuaries	103	11	1.64	0.68	3	3	RL 2
6317	Estuaries	48	6	1.22	0.68	2	3	RL 2
6320	Marinas	153	15	1.71	0.63	3	3	RL 2
6325	Marinas	342	48	3.07	0.79	11	1	Reference
6327	Marinas	754	27	1.54	0.47	3	3	RL 2
6328	Marinas	339	23	1.89	0.60	4	3	RL 2
6335	Marinas	760	68	2.96	0.70	12	1	Reference
6343	Marinas	472	57	3.26	0.81	14	1	Reference
6344	Marinas	351	28	2.21	0.66	6	3	RL 2
6350	Marinas	363	25	2.13	0.66	4	3	RL 2

Site	Stratum	Abun-dance (0.1 m2)	No. of Taxa (0.1 m2)	Shannon (nats)	Even-ness	Domi-nance	Benthic LOE	Condition
6354	Estuaries	2189	56	1.75	0.44	4	2	RL 1
6355	Estuaries	203	20	1.96	0.65	3	3	RL 2
6362	Estuaries	257	17	1.17	0.41	2	3	RL 2
6363	Estuaries	712	35	2.06	0.58	5	3	RL 2
6372	Estuaries	291	40	2.77	0.75	10	1	Reference
6375	Estuaries	937	25	1.90	0.59	4	3	RL 2
6382	Estuaries	300	13	0.90	0.35	1	4	RL 3
6383	Bays	422	54	2.67	0.67	8	1	Reference
6384	Bays	1065	69	2.91	0.69	11	1	Reference
6386	Bays	249	99	4.28	0.93	46	2	RL 1
6387	Bays	223	57	3.43	0.85	20	2	RL 1
6402	Ports	132	42	3.28	0.88	16	2	RL 1
6404	Bays	123	45	3.45	0.91	20	2	RL 1
6405	Ports	218	57	3.38	0.84	19	2	RL 1
6406	Marinas	154	43	3.30	0.88	18	1	Reference
6407	Bays	174	57	3.53	0.87	22	1	Reference
6411	Bays	137	46	3.30	0.86	18	2	RL 1
6413	Ports	336	72	3.23	0.76	19	1	Reference
6416	Bays	495	79	2.88	0.66	14	1	Reference
6419	Ports	305	102	4.23	0.91	40	2	RL 1
6424	Ports	120	51	3.65	0.93	23	2	RL 1
6428	Ports	540	67	2.46	0.58	7	1	Reference
6432	Bays	406	103	4.01	0.86	36	2	RL 1
6436	Bays	419	94	3.82	0.84	25	1	Reference
6437	Bays	96	44	3.47	0.92	20	2	RL 1
6438	Estuaries	257	64	3.50	0.84	20	2	RL 1
6442	Estuaries	856	60	3.06	0.75	12	1	Reference
6443	Ports	192	64	3.72	0.89	26	2	RL 1
6444	Bays	278	70	3.79	0.89	27	1	Reference
6446	Ports	65	35	3.36	0.94	19	2	RL 1
6447	Bays	132	43	3.09	0.82	17	2	RL 1
6448	Bays	133	44	3.35	0.89	16	2	RL 1
6449	Ports	872	79	2.47	0.57	7	1	Reference
6450	Ports	529	131	4.18	0.86	40	2	RL 1
6451	Estuaries	183	16	1.43	0.52	2	2	RL 1
6460	Ports	326	93	4.12	0.91	37	2	RL 1
6462	Bays	256	56	3.25	0.81	18	2	RL 1
6466	Ports	155	58	3.64	0.90	23	2	RL 1
6467	Ports	238	51	3.25	0.83	15	2	RL 1
6468	Estuaries	455	36	2.29	0.64	5	2	RL 1
6472	Marinas	558	55	2.41	0.60	6	2	RL 1
6478	Bays	236	60	3.52	0.86	20	1	Reference
6479	Marinas	158	32	2.79	0.80	9	2	RL 1
6482	Marinas	301	53	3.35	0.84	16	2	RL 1
6485	Estuaries	817	72	3.14	0.73	13	2	RL 1
6487	Ports	197	35	2.18	0.61	6	3	RL 2

Site	Stratum	Abun-dance (0.1 m2)	No. of Taxa (0.1 m2)	Shannon (nats)	Even-ness	Domi-nance	Benthic LOE	Condition
6489	Marinas	1389	39	1.55	0.42	3	3	RL 2
6493	Ports	217	65	3.51	0.84	23	2	RL 1
6500	Estuaries	110	11	1.51	0.63	3	4	RL 3
6508	Estuaries	1933	57	2.55	0.63	8	2	RL 1
6513	Marinas	712	51	2.74	0.70	7	2	RL 1
6518	Marinas	516	53	2.88	0.73	8	2	RL 1
6520	Estuaries	2388	46	2.13	0.56	4	3	RL 2
6527	Marinas	446	24	1.84	0.58	4	3	RL 2
6530	Marinas	282	15	1.85	0.68	4	3	RL 2
6539	Estuaries	4103	36	1.73	0.48	3	3	RL 2
6543	Estuaries	25	5	0.92	0.57	2		NA
6546	Ports	417	46	2.44	0.64	5	2	RL 1
6549	Marinas	2817	48	2.45	0.63	5	2	RL 1
6553	Estuaries	1119	32	1.45	0.42	3	2	RL 1
6560	Marinas	1731	122	3.01	0.63	11	2	RL 1
6562	Estuaries	988	22	1.41	0.46	2	3	RL 2
6570	Ports	183	26	2.43	0.74	7	3	RL 2
6572	Ports	313	26	2.43	0.75	6	3	RL 2
6649	Marinas	319	18	1.93	0.67	4	3	RL 2
6659	Ports	2242	69	2.37	0.56	5	2	RL 1
6660	Ports	419	34	2.30	0.65	6	2	RL 1
6661	Ports	598	37	2.32	0.64	5	3	RL 2