

Appendix E. Long term trends in phytoplankton bioindicators above the pycnocline at all stations and for all seasons, for the period of 1985 through 2007. See the method section of the report for definitions of Seasons. “N.E.” in the Percent Change column indicates “No Estimate” was made for the percent change due to a zero value for the parameter baseline.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Annual	Phytoplankton IBI	0.8223	0.00	1.37	0.00	No Trend	0.6484
TF5.5	Annual	Total Abundance	0.5028	-214148	62054038	-7.59	No Trend	0.1135
TF5.5	Annual	Total Biomass	0.0000	40331830	579179042	153.20	Increasing	0.7083
TF5.5	Annual	Biomass to Abundance Ratio	0.0000	1.88	11.94	346.58	Improving	0.9552
TF5.5	Annual	Margalef Diversity Index	0.1925	-0.01	2.36	-7.27	No Trend	0.8222
TF5.5	Annual	Diatom Biomass	0.0220	12382099	343870864	79.22	No Trend	0.5808
TF5.5	Annual	Dinoflagellate Biomass	0.1557	0	700211	0.00	No Trend	0.4889
TF5.5	Annual	Cyanobacteria Biomass	0.0012	602834	16209464	81.82	Degrading	0.4590
TF5.5	Annual	Chlorophyte Biomass	0.0000	14945534	13674242	2404.53	Improving	0.9883
TF5.5	Annual	Picoplankton Biomass	0.0003	-1413239	76800000	-34.96	Improving	0.1724
TF5.5	Annual	Cryptophyte Biomass	0.2926	217604	10266340	46.63	No Trend	0.3032
TF5.5	Annual	Cyanobacteria Abundance	0.0005	96000	4511922	46.81	Degrading	0.4175
RET5.2	Annual	Phytoplankton IBI	0.6016	0.00	2.50	0.00	No Trend	0.4078
RET5.2	Annual	Total Abundance	0.0000	-780158	34128592	-50.29	Decreasing	0.3641
RET5.2	Annual	Total Biomass	0.0068	14284718	169197079	185.74	Increasing	0.1276
RET5.2	Annual	Biomass to Abundance Ratio	0.0000	1.68	5.60	659.80	Improving	0.9749
RET5.2	Annual	Margalef Diversity Index	0.0000	-0.03	1.72	-36.95	Degrading	0.2985
RET5.2	Annual	Diatom Biomass	0.1163	5050320	117653325	94.44	No Trend	0.2177
RET5.2	Annual	Dinoflagellate Biomass	0.6298	0	478731	0.00	No Trend	0.5204
RET5.2	Annual	Cyanobacteria Biomass	0.7621	31410	3577520	19.32	No Trend	0.6728
RET5.2	Annual	Chlorophyte Biomass	0.0001	2315879	1762185	2891.26	Improving	0.1191
RET5.2	Annual	Picoplankton Biomass	0.0001	-2162813	113625000	-36.17	Improving	0.0884
RET5.2	Annual	Cryptophyte Biomass	0.1077	398844	14385423	61.00	No Trend	0.9673
RET5.2	Annual	Cyanobacteria Abundance	0.5201	-11994	714837	-36.91	No Trend	0.3174
LE5.5	Annual	Phytoplankton IBI	0.8517	0.00	2.49	0.00	No Trend	0.6599
LE5.5	Annual	Total Abundance	0.0000	-198326	13752436	-33.17	Decreasing	0.9784
LE5.5	Annual	Total Biomass	0.2217	3163252	241198661	30.16	No Trend	0.0261
LE5.5	Annual	Biomass to Abundance Ratio	0.0018	1.14	16.27	161.23	Improving	0.2264
LE5.5	Annual	Margalef Diversity Index	0.0127	-0.01	2.47	-12.74	No Trend	0.3903
LE5.5	Annual	Diatom Biomass	0.0797	2785849	161454403	39.69	No Trend	0.0582
LE5.5	Annual	Dinoflagellate Biomass	0.0977	497004	20753674	55.08	No Trend	0.5699
LE5.5	Annual	Cyanobacteria Biomass	0.0000	22782	508	103246.54	Degrading	0.1249
LE5.5	Annual	Chlorophyte Biomass	0.3057	0	5826	0.00	No Trend	0.8690
LE5.5	Annual	Picoplankton Biomass	0.4785	-88130	68925000	-2.43	No Trend	0.8696
LE5.5	Annual	Cryptophyte Biomass	0.0344	-278524	20197572	-31.72	No Trend	0.3272
LE5.5	Annual	Cyanobacteria Abundance	0.0000	4256	14288	685.09	Degrading	0.3194
SBE5	Annual	Phytoplankton IBI	0.0020	0.05	1.40	64.29	Degrading	0.4673
SBE5	Annual	Total Abundance	0.3117	-36587	3741036	-18.58	No Trend	0.0048
SBE5	Annual	Total Biomass	0.0879	-1823484	90041610	-38.48	No Trend	0.0992
SBE5	Annual	Biomass to Abundance Ratio	0.4557	-0.19	20.04	-18.23	No Trend	0.2537
SBE5	Annual	Margalef Diversity Index	0.0011	-0.02	2.42	-17.33	Degrading	0.3450
SBE5	Annual	Diatom Biomass	0.2567	-891888	44433057	-38.14	No Trend	0.0955
SBE5	Annual	Dinoflagellate Biomass	0.6310	-34236	8659873	-7.51	No Trend	0.6820
SBE5	Annual	Cyanobacteria Biomass	0.0002	39997	103136	736.84	Degrading	0.8378
SBE5	Annual	Chlorophyte Biomass	0.7574	0	276008	0.00	No Trend	0.6088
SBE5	Annual	Picoplankton Biomass	0.1819	104990	26850000	7.43	No Trend	0.1156
SBE5	Annual	Cryptophyte Biomass	0.2787	-187518	13747694	-25.92	No Trend	0.9262
SBE5	Annual	Cyanobacteria Abundance	0.0037	4348	7868	1050.07	Degrading	0.3347

Appendix E. Continued.

						Percent	Homogeneity	
Station	Season	Parameter	P value	Slope	Baseline	Change	Direction	test P value
TF4.2	Annual	Phytoplankton IBI	0.4353	0.00	2.67	0.00	No Trend	0.0588
TF4.2	Annual	Total Abundance	0.1199	-89422	29561504	-6.35	No Trend	0.9626
TF4.2	Annual	Total Biomass	0.0372	3340215	108386296	64.72	No Trend	0.9527
TF4.2	Annual	Biomass to Abundance Ratio	0.0006	1.23	5.09	508.73	Improving	0.8591
TF4.2	Annual	Margalef Diversity Index	0.1249	-0.01	1.86	-9.17	No Trend	0.3079
TF4.2	Annual	Diatom Biomass	0.3046	1207575	86661160	29.26	No Trend	0.9971
TF4.2	Annual	Dinoflagellate Biomass	0.7620	0	155268	0.00	No Trend	0.3241
TF4.2	Annual	Cyanobacteria Biomass	0.0004	86126	364833	495.74	Degrading	0.0400
TF4.2	Annual	Chlorophyte Biomass	0.0000	259395	871272	625.21	Improving	0.6275
TF4.2	Annual	Picoplankton Biomass	0.2856	-222150	38400000	-10.99	No Trend	0.9710
TF4.2	Annual	Cryptophyte Biomass	0.2149	216316	8547560	53.15	No Trend	0.6340
TF4.2	Annual	Cyanobacteria Abundance	0.0064	11709	58370	421.27	Degrading	0.0283
RET4.3	Annual	Phytoplankton IBI	0.8517	0.00	1.50	0.00	No Trend	0.2950
RET4.3	Annual	Total Abundance	0.0002	-565381	28439494	-43.74	Decreasing	0.5727
RET4.3	Annual	Total Biomass	0.0170	7303383	340904740	47.13	No Trend	0.8548
RET4.3	Annual	Biomass to Abundance Ratio	0.0000	1.49	9.07	360.65	Improving	0.4301
RET4.3	Annual	Margalef Diversity Index	0.2096	-0.01	1.64	-9.91	No Trend	0.2376
RET4.3	Annual	Diatom Biomass	0.0843	3928856	185043140	46.71	No Trend	0.2268
RET4.3	Annual	Dinoflagellate Biomass	0.3599	123227	19948221	13.59	No Trend	0.8399
RET4.3	Annual	Cyanobacteria Biomass	0.0002	142297	901456	347.28	Degrading	0.8754
RET4.3	Annual	Chlorophyte Biomass	0.0000	259489	1404 406560.18	Improving	0.3056	
RET4.3	Annual	Picoplankton Biomass	0.3905	-220796	42525000	-9.87	No Trend	0.4259
RET4.3	Annual	Cryptophyte Biomass	0.9549	-3756	19348050	-0.43	No Trend	0.0227
RET4.3	Annual	Cyanobacteria Abundance	0.0001	21082	194361	238.63	Degrading	0.8417
WE4.2	Annual	Phytoplankton IBI	0.0147	0.03	2.39	28.32	No Trend	0.0936
WE4.2	Annual	Total Abundance	0.0000	-233841	16299148	-33.00	Decreasing	0.9677
WE4.2	Annual	Total Biomass	0.8768	-268788	363125067	-1.70	No Trend	0.5864
WE4.2	Annual	Biomass to Abundance Ratio	0.0176	0.84	20.82	92.50	No Trend	0.3810
WE4.2	Annual	Margalef Diversity Index	0.0000	-0.03	2.62	-27.88	Degrading	0.5684
WE4.2	Annual	Diatom Biomass	0.3481	1654917	183248326	20.77	No Trend	0.3521
WE4.2	Annual	Dinoflagellate Biomass	0.2433	470655	51821394	20.89	No Trend	0.2591
WE4.2	Annual	Cyanobacteria Biomass	0.0000	23647	0	Degrading	0.7155	
WE4.2	Annual	Chlorophyte Biomass	0.3944	0	71432	0.00	No Trend	0.4853
WE4.2	Annual	Picoplankton Biomass	0.7489	-73209	56850000	-2.45	No Trend	0.4096
WE4.2	Annual	Cryptophyte Biomass	0.0001	-636545	23280456	-62.89	Decreasing	0.2955
WE4.2	Annual	Cyanobacteria Abundance	0.0000	3262	1536	4885.07	Degrading	0.9484

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Annual	Phytoplankton IBI	0.0573	0.00	2.00	0.00	No Trend	0.0063
TF3.3	Annual	Total Abundance	0.0842	305721	29641417	22.69	No Trend	0.9643
TF3.3	Annual	Total Biomass	0.0000	32591929	100119882	716.16	Increasing	0.7715
TF3.3	Annual	Biomass to Abundance Ratio	0.0000	1.48	4.21	775.20	Improving	0.8964
TF3.3	Annual	Margalef Diversity Index	0.8263	0.00	1.53	1.65	No Trend	0.9817
TF3.3	Annual	Diatom Biomass	0.0000	21310961	72419559	647.40	Improving	0.6632
TF3.3	Annual	Dinoflagellate Biomass	0.0159	14546	881362	36.31	No Trend	0.4970
TF3.3	Annual	Cyanobacteria Biomass	0.0000	1114443	1358370	1804.94	Degrading	0.8473
TF3.3	Annual	Chlorophyte Biomass	0.0000	3931300	1749939	4942.38	Improving	0.9012
TF3.3	Annual	Picoplankton Biomass	0.8887	59888	71700000	1.59	No Trend	0.6845
TF3.3	Annual	Cryptophyte Biomass	0.3955	156353	12445860	27.64	No Trend	0.6304
TF3.3	Annual	Cyanobacteria Abundance	0.0000	280152	171100	3602.20	Degrading	0.9426
RET3.1	Annual	Phytoplankton IBI	0.4232	0.00	2.25	0.00	No Trend	0.4505
RET3.1	Annual	Total Abundance	0.3679	-104101	34696531	-6.60	No Trend	0.7338
RET3.1	Annual	Total Biomass	0.0000	17213578	222318386	170.34	Increasing	0.6058
RET3.1	Annual	Biomass to Abundance Ratio	0.0001	0.98	6.79	316.02	Improving	0.8306
RET3.1	Annual	Margalef Diversity Index	0.2061	-0.01	1.84	-9.47	No Trend	0.3272
RET3.1	Annual	Diatom Biomass	0.0005	7657725	117569989	143.29	Improving	0.6910
RET3.1	Annual	Dinoflagellate Biomass	0.5197	-21880	20778928	-2.32	No Trend	0.7521
RET3.1	Annual	Cyanobacteria Biomass	0.0000	843768	1936906	958.38	Degrading	0.0782
RET3.1	Annual	Chlorophyte Biomass	0.0000	694964	1492127	1024.66	Improving	0.8114
RET3.1	Annual	Picoplankton Biomass	0.6039	-190840	119700000	-3.03	No Trend	0.9710
RET3.1	Annual	Cryptophyte Biomass	0.4491	283076	21408468	29.09	No Trend	0.3219
RET3.1	Annual	Cyanobacteria Abundance	0.0000	120774	169424	1568.27	Degrading	0.6662
LE3.6	Annual	Phytoplankton IBI	0.0119	0.03	2.88	21.86	No Trend	0.9917
LE3.6	Annual	Total Abundance	0.0010	-171940	13566838	-29.15	Decreasing	0.9305
LE3.6	Annual	Total Biomass	0.7262	-1648143	382850953	-9.90	No Trend	0.8250
LE3.6	Annual	Biomass to Abundance Ratio	0.0098	0.92	28.73	73.93	Improving	0.6123
LE3.6	Annual	Margalef Diversity Index	0.0014	-0.02	2.32	-17.32	Degrading	0.4857
LE3.6	Annual	Diatom Biomass	0.6768	-651682	225079575	-6.66	No Trend	0.5735
LE3.6	Annual	Dinoflagellate Biomass	0.0066	1367705	23164503	135.80	Degrading	0.1829
LE3.6	Annual	Cyanobacteria Biomass	0.0000	63556	643 227267.37		Degrading	0.6354
LE3.6	Annual	Chlorophyte Biomass	0.1464	0	186621	0.00	No Trend	0.6358
LE3.6	Annual	Picoplankton Biomass	0.0002	-1183440	106500000	-21.11	Improving	0.6314
LE3.6	Annual	Cryptophyte Biomass	0.0005	-490316	27224033	-41.42	Decreasing	0.5167
LE3.6	Annual	Cyanobacteria Abundance	0.0000	13475	256 121063.90		Degrading	0.8039

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Annual	Phytoplankton IBI	0.1072	0.01	3.25	8.80	No Trend	0.3972
CB6.1	Annual	Total Abundance	0.0018	-144467	11024474	-30.14	Decreasing	0.9846
CB6.1	Annual	Total Biomass	0.2859	-3061496	424613846	-16.58	No Trend	0.0286
CB6.1	Annual	Biomass to Abundance Ratio	0.3951	0.31	38.12	19.00	No Trend	0.6059
CB6.1	Annual	Margalef Diversity Index	0.0187	-0.01	2.39	-14.37	No Trend	0.9371
CB6.1	Annual	Diatom Biomass	0.8545	-186899	228810663	-1.88	No Trend	0.0816
CB6.1	Annual	Dinoflagellate Biomass	0.6052	222644	32128541	15.94	No Trend	0.0332
CB6.1	Annual	Cyanobacteria Biomass	0.0000	54515	653 192071.30		Degrading	0.5502
CB6.1	Annual	Chlorophyte Biomass	0.1309	0	140324	0.00	No Trend	0.6640
CB6.1	Annual	Picoplankton Biomass	0.0006	-1421051	81975000	-32.94	Improving	0.6073
CB6.1	Annual	Cryptophyte Biomass	0.0000	-729974	25735449	-65.24	Decreasing	0.6872
CB6.1	Annual	Cyanobacteria Abundance	0.0000	9343	9978	2153.47	Degrading	0.5876
CB6.4	Annual	Phytoplankton IBI	0.1757	0.01	2.74	10.04	No Trend	0.6761
CB6.4	Annual	Total Abundance	0.0000	-202915	11803631	-39.54	Decreasing	0.8210
CB6.4	Annual	Total Biomass	0.6382	1087914	225246404	11.11	No Trend	0.8655
CB6.4	Annual	Biomass to Abundance Ratio	0.0003	1.32	21.34	142.09	Improving	0.9282
CB6.4	Annual	Margalef Diversity Index	0.0001	-0.02	2.17	-23.84	Degrading	0.2928
CB6.4	Annual	Diatom Biomass	0.9540	89284	161577654	1.27	No Trend	0.8649
CB6.4	Annual	Dinoflagellate Biomass	0.0019	1427357	31861194	103.04	Degrading	0.8838
CB6.4	Annual	Cyanobacteria Biomass	0.0000	18122	0		Degrading	0.9860
CB6.4	Annual	Chlorophyte Biomass	0.2992	0	82373	0.00	No Trend	0.6525
CB6.4	Annual	Picoplankton Biomass	0.0002	-949715	92512500	-19.51	Improving	0.8424
CB6.4	Annual	Cryptophyte Biomass	0.0326	-362354	16798536	-49.61	No Trend	0.0406
CB6.4	Annual	Cyanobacteria Abundance	0.0000	4736	0		Degrading	0.9489
CB7.3E	Annual	Phytoplankton IBI	0.0456	0.03	2.67	22.09	No Trend	0.8637
CB7.3E	Annual	Total Abundance	0.0000	-169641	10397645	-37.53	Decreasing	0.7733
CB7.3E	Annual	Total Biomass	0.4388	1643409	302746838	12.49	No Trend	0.2447
CB7.3E	Annual	Biomass to Abundance Ratio	0.0017	1.42	29.28	111.79	Improving	0.7921
CB7.3E	Annual	Margalef Diversity Index	0.0006	-0.02	2.51	-19.46	Degrading	0.7252
CB7.3E	Annual	Diatom Biomass	0.4787	878855	193693507	10.44	No Trend	0.7001
CB7.3E	Annual	Dinoflagellate Biomass	0.1821	489756	31423533	35.85	No Trend	0.1691
CB7.3E	Annual	Cyanobacteria Biomass	0.0000	30725	9326	7577.38	Degrading	0.9927
CB7.3E	Annual	Chlorophyte Biomass	0.0601	0	1569	0.00	No Trend	0.6748
CB7.3E	Annual	Picoplankton Biomass	0.1916	-388918	83062500	-8.90	No Trend	0.9006
CB7.3E	Annual	Cryptophyte Biomass	0.0303	-285221	18016468	-36.41	No Trend	0.0506
CB7.3E	Annual	Cyanobacteria Abundance	0.0000	5683	8294	1575.95	Degrading	0.9684
CB7.4	Annual	Phytoplankton IBI	0.0495	0.03	3.15	17.49	No Trend	0.4109
CB7.4	Annual	Total Abundance	0.0040	-109805	9704305	-26.02	Decreasing	0.8402
CB7.4	Annual	Total Biomass	0.0102	5248828	163428101	73.87	No Trend	0.9295
CB7.4	Annual	Biomass to Abundance Ratio	0.0000	1.92	24.53	179.71	Improving	0.8997
CB7.4	Annual	Margalef Diversity Index	0.0000	-0.04	2.77	-32.77	Degrading	0.6475
CB7.4	Annual	Diatom Biomass	0.0069	3665978	135076476	62.42	Improving	0.8211
CB7.4	Annual	Dinoflagellate Biomass	0.0046	781172	18234240	98.53	Degrading	0.5496
CB7.4	Annual	Cyanobacteria Biomass	0.0000	1015	0		Degrading	0.8049
CB7.4	Annual	Chlorophyte Biomass	0.2182	0	29864	0.00	No Trend	0.0241
CB7.4	Annual	Picoplankton Biomass	0.3510	-172229	97800000	-3.35	No Trend	0.4393
CB7.4	Annual	Cryptophyte Biomass	0.0360	-186073	7805429	-54.83	No Trend	0.5484
CB7.4	Annual	Cyanobacteria Abundance	0.0000	1191	240	11413.84	Degrading	0.3920

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	SAV1	Phytoplankton IBI	0.9276	0.00	1.17	0.00	No Trend	0.5769
TF5.5	SAV1	Total Abundance	0.0804	-888970	79724935	-24.53	No Trend	0.1098
TF5.5	SAV1	Total Biomass	0.0121	28343013	858965395	72.59	No Trend	0.8451
TF5.5	SAV1	Biomass to Abundance Ratio	0.0000	1.55	12.57	271.10	Improving	0.7539
TF5.5	SAV1	Margalef Diversity Index	0.2039	-0.01	2.47	-8.57	No Trend	0.8906
TF5.5	SAV1	Diatom Biomass	0.7364	1382597	604295504	5.03	No Trend	0.9879
TF5.5	SAV1	Dinoflagellate Biomass	0.0556	7492	457994	35.99	No Trend	0.4943
TF5.5	SAV1	Cyanobacteria Biomass	0.1549	461053	55480972	18.28	No Trend	0.8228
TF5.5	SAV1	Chlorophyte Biomass	0.0000	17610714	45476068	851.96	Improving	0.9978
TF5.5	SAV1	Picoplankton Biomass	0.0000	-5825400	201375000	-54.96	Improving	0.3422
TF5.5	SAV1	Cryptophyte Biomass	0.7362	-62210	14801109	-9.25	No Trend	0.8501
TF5.5	SAV1	Cyanobacteria Abundance	0.2728	55530	16650906	7.34	No Trend	0.9515
RET5.2	SAV1	Phytoplankton IBI	0.9680	0.00	2.75	0.00	No Trend	0.4472
RET5.2	SAV1	Total Abundance	0.0001	-1029787	34326724	-66.00	Decreasing	0.3908
RET5.2	SAV1	Total Biomass	0.1401	10506850	207451637	111.42	No Trend	0.4628
RET5.2	SAV1	Biomass to Abundance Ratio	0.0000	1.29	7.34	386.10	Improving	0.9569
RET5.2	SAV1	Margalef Diversity Index	0.0000	-0.03	1.69	-44.82	Degrading	0.6773
RET5.2	SAV1	Diatom Biomass	0.4875	2573875	117653325	48.13	No Trend	0.8346
RET5.2	SAV1	Dinoflagellate Biomass	0.6991	0	1804900	0.00	No Trend	0.6533
RET5.2	SAV1	Cyanobacteria Biomass	0.9654	7910	3190811	5.45	No Trend	0.4989
RET5.2	SAV1	Chlorophyte Biomass	0.0317	1751818	2237319	1722.60	No Trend	0.6789
RET5.2	SAV1	Picoplankton Biomass	0.0154	-3334938	408000000	-15.53	No Trend	0.0328
RET5.2	SAV1	Cryptophyte Biomass	0.3562	253336	15769672	35.34	No Trend	0.9795
RET5.2	SAV1	Cyanobacteria Abundance	0.2243	-49282	860356	-126.02	No Trend	0.3524
LE5.5	SAV1	Phytoplankton IBI	0.7602	0.00	2.70	0.00	No Trend	0.5308
LE5.5	SAV1	Total Abundance	0.0030	-188746	13752436	-31.57	Decreasing	0.8718
LE5.5	SAV1	Total Biomass	0.5143	2556882	241198661	24.38	No Trend	0.0417
LE5.5	SAV1	Biomass to Abundance Ratio	0.1444	0.63	21.26	67.99	No Trend	0.1011
LE5.5	SAV1	Margalef Diversity Index	0.0004	-0.03	2.62	-24.44	Degrading	0.6655
LE5.5	SAV1	Diatom Biomass	0.3569	1638719	186622685	20.20	No Trend	0.1489
LE5.5	SAV1	Dinoflagellate Biomass	0.4879	260654	23546621	25.46	No Trend	0.6252
LE5.5	SAV1	Cyanobacteria Biomass	0.0000	47274	275 395094.35		Degrading	0.4417
LE5.5	SAV1	Chlorophyte Biomass	0.9234	0	0		No Trend	0.7948
LE5.5	SAV1	Picoplankton Biomass	0.3010	-616671	337125000	-3.48	No Trend	0.6608
LE5.5	SAV1	Cryptophyte Biomass	0.0247	-444059	26818120	-38.08	No Trend	0.3045
LE5.5	SAV1	Cyanobacteria Abundance	0.0000	8711	18272	1096.49	Degrading	0.6965
SBE5	SAV1	Phytoplankton IBI	0.0116	0.04	1.40	53.57	No Trend	0.4197
SBE5	SAV1	Total Abundance	0.2500	-67732	5163581	-24.92	No Trend	0.0009
SBE5	SAV1	Total Biomass	0.2289	-1845346	90436945	-38.77	No Trend	0.0334
SBE5	SAV1	Biomass to Abundance Ratio	0.4671	-0.20	19.55	-19.20	No Trend	0.2660
SBE5	SAV1	Margalef Diversity Index	0.0006	-0.03	1.88	-31.46	Degrading	0.1720
SBE5	SAV1	Diatom Biomass	0.2962	-1061266	48376307	-41.68	No Trend	0.0389
SBE5	SAV1	Dinoflagellate Biomass	0.6626	-33558	8659873	-7.36	No Trend	0.3222
SBE5	SAV1	Cyanobacteria Biomass	0.0189	21934	505592	82.43	No Trend	0.7843
SBE5	SAV1	Chlorophyte Biomass	0.1863	-2561	100360	-48.49	No Trend	0.5787
SBE5	SAV1	Picoplankton Biomass	0.2354	-372450	382500000	-1.85	No Trend	0.5585
SBE5	SAV1	Cryptophyte Biomass	0.2554	-278438	15403423	-34.35	No Trend	0.7101
SBE5	SAV1	Cyanobacteria Abundance	0.1085	2280	30633	141.43	No Trend	0.3288

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	SAV1	Phytoplankton IBI	0.8246	0.00	2.67	0.00	No Trend	0.0571
TF4.2	SAV1	Total Abundance	0.1960	-109922	30093641	-7.67	No Trend	0.9397
TF4.2	SAV1	Total Biomass	0.1265	3571183	153767520	48.77	No Trend	0.8404
TF4.2	SAV1	Biomass to Abundance Ratio	0.0104	1.07	5.29	426.26	No Trend	0.5283
TF4.2	SAV1	Margalef Diversity Index	0.0819	-0.01	1.86	-10.72	No Trend	0.3565
TF4.2	SAV1	Diatom Biomass	0.5104	999993	120080695	17.49	No Trend	0.9618
TF4.2	SAV1	Dinoflagellate Biomass	0.7380	0	254254	0.00	No Trend	0.1797
TF4.2	SAV1	Cyanobacteria Biomass	0.0972	55241	1174200	98.80	No Trend	0.0632
TF4.2	SAV1	Chlorophyte Biomass	0.0002	413978	2401355	362.03	Improving	0.3296
TF4.2	SAV1	Picoplankton Biomass	0.6540	-271181	102525000	-5.03	No Trend	0.9565
TF4.2	SAV1	Cryptophyte Biomass	0.8785	-13301	8718511	-3.20	No Trend	0.8176
TF4.2	SAV1	Cyanobacteria Abundance	0.5027	2842	102707	58.11	No Trend	0.0741
RET4.3	SAV1	Phytoplankton IBI	0.8554	0.00	1.50	0.00	No Trend	0.1909
RET4.3	SAV1	Total Abundance	0.0001	-650197	29508387	-48.48	Decreasing	0.4821
RET4.3	SAV1	Total Biomass	0.2592	3774736	340904740	24.36	No Trend	0.9616
RET4.3	SAV1	Biomass to Abundance Ratio	0.0000	1.04	9.07	251.39	Improving	0.3674
RET4.3	SAV1	Margalef Diversity Index	0.0971	-0.01	1.64	-12.37	No Trend	0.4177
RET4.3	SAV1	Diatom Biomass	0.7568	536150	185043140	6.37	No Trend	0.7330
RET4.3	SAV1	Dinoflagellate Biomass	0.5282	96943	26331560	8.10	No Trend	0.6414
RET4.3	SAV1	Cyanobacteria Biomass	0.0072	176390	1379162	281.37	Degrading	0.6695
RET4.3	SAV1	Chlorophyte Biomass	0.0005	200855	178419	2476.64	Improving	0.3726
RET4.3	SAV1	Picoplankton Biomass	0.2985	-617413	201300000	-5.83	No Trend	0.2215
RET4.3	SAV1	Cryptophyte Biomass	0.0767	-489604	24741945	-43.53	No Trend	0.2068
RET4.3	SAV1	Cyanobacteria Abundance	0.0059	21490	283829	166.57	Degrading	0.5660
WE4.2	SAV1	Phytoplankton IBI	0.0581	0.02	2.39	22.59	No Trend	0.0867
WE4.2	SAV1	Total Abundance	0.0010	-272529	17331926	-36.17	Decreasing	0.8088
WE4.2	SAV1	Total Biomass	0.9334	289399	363125067	1.83	No Trend	0.6487
WE4.2	SAV1	Biomass to Abundance Ratio	0.0075	1.25	21.10	136.41	Improving	0.1396
WE4.2	SAV1	Margalef Diversity Index	0.0014	-0.03	2.61	-26.34	Degrading	0.2588
WE4.2	SAV1	Diatom Biomass	0.2868	2247586	183248326	28.21	No Trend	0.3023
WE4.2	SAV1	Dinoflagellate Biomass	0.6610	-231458	73094564	-7.28	No Trend	0.4916
WE4.2	SAV1	Cyanobacteria Biomass	0.0000	33746	0		Degrading	0.7508
WE4.2	SAV1	Chlorophyte Biomass	0.8287	0	119548	0.00	No Trend	0.7241
WE4.2	SAV1	Picoplankton Biomass	0.1751	-1338550	418125000	-6.08	No Trend	0.2800
WE4.2	SAV1	Cryptophyte Biomass	0.0005	-784616	25105276	-71.88	Decreasing	0.0652
WE4.2	SAV1	Cyanobacteria Abundance	0.0000	6800	12230	1278.73	Degrading	0.7393

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	SAV1	Phytoplankton IBI	0.0034	-0.03	3.00	-17.50	Improving	0.0596
TF3.3	SAV1	Total Abundance	0.0573	508708	26719477	41.89	No Trend	0.8598
TF3.3	SAV1	Total Biomass	0.0000	49315806	100119882	1083.65	Increasing	0.6764
TF3.3	SAV1	Biomass to Abundance Ratio	0.0000	1.44	4.86	653.46	Improving	0.7668
TF3.3	SAV1	Margalef Diversity Index	0.9643	0.00	1.60	-1.01	No Trend	0.9317
TF3.3	SAV1	Diatom Biomass	0.0000	28842635	72419559	876.20	Improving	0.9007
TF3.3	SAV1	Dinoflagellate Biomass	0.0040	117743	1279856	202.39	Degrading	0.4929
TF3.3	SAV1	Cyanobacteria Biomass	0.0000	2067696	1399714	3249.90	Degrading	0.8742
TF3.3	SAV1	Chlorophyte Biomass	0.0000	6194768	3532021	3858.55	Improving	0.8705
TF3.3	SAV1	Picoplankton Biomass	0.5639	-564743	220950000	-4.86	No Trend	0.9698
TF3.3	SAV1	Cryptophyte Biomass	0.8055	-49582	18013887	-6.06	No Trend	0.7677
TF3.3	SAV1	Cyanobacteria Abundance	0.0000	424568	82925	11263.77	Degrading	0.6718
RET3.1	SAV1	Phytoplankton IBI	0.7827	0.00	2.00	0.00	No Trend	0.4721
RET3.1	SAV1	Total Abundance	0.9287	-11890	34336597	-0.76	No Trend	0.6560
RET3.1	SAV1	Total Biomass	0.0000	21315690	202568439	231.50	Increasing	0.5674
RET3.1	SAV1	Biomass to Abundance Ratio	0.0089	0.64	8.98	156.46	Improving	0.9207
RET3.1	SAV1	Margalef Diversity Index	0.2831	-0.01	1.84	-8.88	No Trend	0.1093
RET3.1	SAV1	Diatom Biomass	0.0008	10058238	111529473	198.41	Improving	0.6482
RET3.1	SAV1	Dinoflagellate Biomass	0.8931	0	21708212	0.00	No Trend	0.5308
RET3.1	SAV1	Cyanobacteria Biomass	0.0000	1613929	2726081	1302.47	Degrading	0.4284
RET3.1	SAV1	Chlorophyte Biomass	0.0001	811573	1492127	1196.59	Improving	0.4266
RET3.1	SAV1	Picoplankton Biomass	0.3425	-1043639	462750000	-4.29	No Trend	0.9850
RET3.1	SAV1	Cryptophyte Biomass	0.5384	308785	21408468	31.73	No Trend	0.3047
RET3.1	SAV1	Cyanobacteria Abundance	0.0000	266862	158336	3707.91	Degrading	0.8513
LE3.6	SAV1	Phytoplankton IBI	0.0332	0.03	2.67	21.72	No Trend	0.9954
LE3.6	SAV1	Total Abundance	0.0199	-163295	12204742	-30.77	No Trend	0.7034
LE3.6	SAV1	Total Biomass	0.7073	-2222755	382850953	-13.35	No Trend	0.7266
LE3.6	SAV1	Biomass to Abundance Ratio	0.1303	0.70	31.95	50.59	No Trend	0.3155
LE3.6	SAV1	Margalef Diversity Index	0.0017	-0.02	2.32	-22.45	Degrading	0.7364
LE3.6	SAV1	Diatom Biomass	0.6292	-980751	225079575	-10.02	No Trend	0.9664
LE3.6	SAV1	Dinoflagellate Biomass	0.1942	1012125	49282460	47.24	No Trend	0.6492
LE3.6	SAV1	Cyanobacteria Biomass	0.0000	72487	74753	2230.30	Degrading	0.4018
LE3.6	SAV1	Chlorophyte Biomass	0.9390	0	414720	0.00	No Trend	0.9249
LE3.6	SAV1	Picoplankton Biomass	0.0003	-6872100	652875000	-20.00	Improving	0.5637
LE3.6	SAV1	Cryptophyte Biomass	0.0001	-911276	27748849	-75.53	Decreasing	0.9631
LE3.6	SAV1	Cyanobacteria Abundance	0.0000	24364	27130	2065.58	Degrading	0.6572

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	SAV1	Phytoplankton IBI	0.2131	0.01	3.25	5.80	No Trend	0.3250
CB6.1	SAV1	Total Abundance	0.0124	-139079	10135085	-31.56	No Trend	0.8798
CB6.1	SAV1	Total Biomass	0.1906	-4705528	402760330	-26.87	No Trend	0.4507
CB6.1	SAV1	Biomass to Abundance Ratio	0.6321	0.27	35.47	17.44	No Trend	0.6716
CB6.1	SAV1	Margalef Diversity Index	0.0515	-0.02	2.45	-14.78	No Trend	0.8578
CB6.1	SAV1	Diatom Biomass	0.4629	-1393564	228810663	-14.01	No Trend	0.7709
CB6.1	SAV1	Dinoflagellate Biomass	0.6938	-245076	38147071	-14.78	No Trend	0.1576
CB6.1	SAV1	Cyanobacteria Biomass	0.0000	114774	13001	20303.92	Degrading	0.8428
CB6.1	SAV1	Chlorophyte Biomass	0.1638	0	140324	0.00	No Trend	0.5000
CB6.1	SAV1	Picoplankton Biomass	0.0019	-6559875	1025025000	-12.16	Improving	0.4306
CB6.1	SAV1	Cryptophyte Biomass	0.0000	-1081819	27821849	-89.43	Decreasing	0.9945
CB6.1	SAV1	Cyanobacteria Abundance	0.0000	19700	65711	689.52	Degrading	0.6546
CB6.4	SAV1	Phytoplankton IBI	0.2742	0.01	2.74	8.03	No Trend	0.5512
CB6.4	SAV1	Total Abundance	0.0056	-182181	10690170	-39.20	Decreasing	0.4830
CB6.4	SAV1	Total Biomass	0.9580	-185410	225246404	-1.89	No Trend	0.7448
CB6.4	SAV1	Biomass to Abundance Ratio	0.0060	1.44	23.15	143.48	Improving	0.6602
CB6.4	SAV1	Margalef Diversity Index	0.0006	-0.02	2.25	-25.41	Degrading	0.2146
CB6.4	SAV1	Diatom Biomass	0.5766	-898380	161577654	-12.79	No Trend	0.8951
CB6.4	SAV1	Dinoflagellate Biomass	0.1070	1219450	33798344	82.98	No Trend	0.8888
CB6.4	SAV1	Cyanobacteria Biomass	0.0000	26460	0		Degrading	0.9897
CB6.4	SAV1	Chlorophyte Biomass	0.9053	0	131468	0.00	No Trend	0.9494
CB6.4	SAV1	Picoplankton Biomass	0.0173	-3097500	621750000	-9.47	No Trend	0.6217
CB6.4	SAV1	Cryptophyte Biomass	0.0087	-586642	18186302	-74.19	Decreasing	0.1534
CB6.4	SAV1	Cyanobacteria Abundance	0.0000	8983	35417	583.39	Degrading	0.8160
CB7.3E	SAV1	Phytoplankton IBI	0.0474	0.03	2.67	27.49	No Trend	0.7837
CB7.3E	SAV1	Total Abundance	0.0031	-151353	9097997	-38.26	Decreasing	0.4119
CB7.3E	SAV1	Total Biomass	0.4339	2553375	271994468	21.59	No Trend	0.1437
CB7.3E	SAV1	Biomass to Abundance Ratio	0.0308	1.17	33.51	80.61	No Trend	0.4760
CB7.3E	SAV1	Margalef Diversity Index	0.0044	-0.02	2.50	-21.71	Degrading	0.4868
CB7.3E	SAV1	Diatom Biomass	0.5661	888643	193693507	10.55	No Trend	0.6009
CB7.3E	SAV1	Dinoflagellate Biomass	0.1357	937010	34981196	61.61	No Trend	0.2391
CB7.3E	SAV1	Cyanobacteria Biomass	0.0000	44199	9326	10900.53	Degrading	0.9517
CB7.3E	SAV1	Chlorophyte Biomass	0.3708	0	372	0.00	No Trend	0.5059
CB7.3E	SAV1	Picoplankton Biomass	0.1895	-1183125	311025000	-7.23	No Trend	0.5962
CB7.3E	SAV1	Cryptophyte Biomass	0.1749	-256435	18016468	-32.74	No Trend	0.0893
CB7.3E	SAV1	Cyanobacteria Abundance	0.0000	9433	10021	2164.99	Degrading	0.9477
CB7.4	SAV1	Phytoplankton IBI	0.0456	0.03	3.06	17.96	No Trend	0.3078
CB7.4	SAV1	Total Abundance	0.0679	-78770	8413527	-21.53	No Trend	0.7343
CB7.4	SAV1	Total Biomass	0.2144	3650531	175629701	47.81	No Trend	0.9029
CB7.4	SAV1	Biomass to Abundance Ratio	0.0179	1.26	28.71	100.86	No Trend	0.7851
CB7.4	SAV1	Margalef Diversity Index	0.0000	-0.05	2.88	-41.25	Degrading	0.9771
CB7.4	SAV1	Diatom Biomass	0.1357	2520683	138989878	41.71	No Trend	0.6545
CB7.4	SAV1	Dinoflagellate Biomass	0.0419	872378	18234240	110.04	No Trend	0.2434
CB7.4	SAV1	Cyanobacteria Biomass	0.0000	10081	6359	3646.03	Degrading	0.5988
CB7.4	SAV1	Chlorophyte Biomass	0.4121	0	176405	0.00	No Trend	0.1212
CB7.4	SAV1	Picoplankton Biomass	0.6618	-375113	195450000	-3.65	No Trend	0.1836
CB7.4	SAV1	Cryptophyte Biomass	0.0223	-258957	9783715	-60.88	No Trend	0.5636
CB7.4	SAV1	Cyanobacteria Abundance	0.0000	5478	4107	3067.82	Degrading	0.6023



Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	SAV2	Phytoplankton IBI	0.5615	0.00	2.94	0.00	No Trend	0.8740
TF5.5	SAV2	Total Abundance	0.0018	-263026	11783250	-51.34	Decreasing	0.0428
TF5.5	SAV2	Total Biomass	0.0157	9075552	225709387	92.48	No Trend	0.4436
TF5.5	SAV2	Biomass to Abundance Ratio	0.0000	1.54	11.94	296.89	Improving	0.1537
TF5.5	SAV2	Margalef Diversity Index	0.0114	-0.02	2.10	-17.08	No Trend	0.1521
TF5.5	SAV2	Diatom Biomass	0.0031	7534924	151230773	114.60	Improving	0.4410
TF5.5	SAV2	Dinoflagellate Biomass	0.9819	0	6286587	0.00	No Trend	0.3164
TF5.5	SAV2	Cyanobacteria Biomass	0.0001	79271	790469	230.65	Degrading	0.0228
TF5.5	SAV2	Chlorophyte Biomass	0.0010	134695	282721	1095.77	Improving	0.1188
TF5.5	SAV2	Picoplankton Biomass	0.1914	-445688	89775000	-9.43	No Trend	0.6161
TF5.5	SAV2	Cryptophyte Biomass	0.1500	-367296	20744640	-40.72	No Trend	0.9612
TF5.5	SAV2	Cyanobacteria Abundance	0.0000	20149	46145	1004.26	Degrading	0.1052
RET5.2	SAV2	Phytoplankton IBI	0.5059	0.00	2.54	0.00	No Trend	0.5037
RET5.2	SAV2	Total Abundance	0.0003	-293758	10766699	-62.75	Decreasing	0.8768
RET5.2	SAV2	Total Biomass	0.0114	8900497	139342036	146.91	No Trend	0.5629
RET5.2	SAV2	Biomass to Abundance Ratio	0.0000	1.38	9.60	330.27	Improving	0.1925
RET5.2	SAV2	Margalef Diversity Index	0.0035	-0.02	1.78	-25.69	Degrading	0.2995
RET5.2	SAV2	Diatom Biomass	0.0157	5365554	75223632	164.05	No Trend	0.4255
RET5.2	SAV2	Dinoflagellate Biomass	0.4520	0	7074848	0.00	No Trend	0.1017
RET5.2	SAV2	Cyanobacteria Biomass	0.0001	82782	34685	5489.31	Degrading	0.0618
RET5.2	SAV2	Chlorophyte Biomass	0.0065	81711	165083	1138.44	Improving	0.1354
RET5.2	SAV2	Picoplankton Biomass	0.2131	-557777	91500000	-11.58	No Trend	0.7768
RET5.2	SAV2	Cryptophyte Biomass	0.5703	-147456	18097357	-18.74	No Trend	0.7218
RET5.2	SAV2	Cyanobacteria Abundance	0.0010	14428	25089	1322.67	Degrading	0.0493
LE5.5	SAV2	Phytoplankton IBI	0.8649	0.00	2.36	0.00	No Trend	0.8236
LE5.5	SAV2	Total Abundance	0.0008	-210705	11783250	-41.13	Decreasing	0.9121
LE5.5	SAV2	Total Biomass	0.4492	2371966	218613355	24.96	No Trend	0.4499
LE5.5	SAV2	Biomass to Abundance Ratio	0.0008	1.11	20.83	122.60	Improving	0.1651
LE5.5	SAV2	Margalef Diversity Index	0.0092	-0.02	2.32	-17.43	Degrading	0.2225
LE5.5	SAV2	Diatom Biomass	0.1140	2997229	139973853	49.25	No Trend	0.2499
LE5.5	SAV2	Dinoflagellate Biomass	0.2754	317927	17934623	40.77	No Trend	0.1911
LE5.5	SAV2	Cyanobacteria Biomass	0.0000	70151	9936	16239.12	Degrading	0.4666
LE5.5	SAV2	Chlorophyte Biomass	0.5998	132	279934	1.08	No Trend	0.6102
LE5.5	SAV2	Picoplankton Biomass	0.2471	-243607	85200000	-5.43	No Trend	0.7532
LE5.5	SAV2	Cryptophyte Biomass	0.1817	-278568	21334398	-30.03	No Trend	0.6283
LE5.5	SAV2	Cyanobacteria Abundance	0.0000	11228	7917	3261.96	Degrading	0.3502
SBE5	SAV2	Phytoplankton IBI	0.3377	0.00	2.88	0.00	No Trend	0.3225
SBE5	SAV2	Total Abundance	0.0001	-204426	10153711	-46.31	Decreasing	0.9133
SBE5	SAV2	Total Biomass	0.3067	-2309654	139342036	-38.12	No Trend	0.0219
SBE5	SAV2	Biomass to Abundance Ratio	0.1442	0.47	13.63	79.64	No Trend	0.0011
SBE5	SAV2	Margalef Diversity Index	0.0010	-0.02	2.10	-25.54	Degrading	0.0444
SBE5	SAV2	Diatom Biomass	0.6613	623069	51181939	28.00	No Trend	0.0051
SBE5	SAV2	Dinoflagellate Biomass	0.3550	-215501	11906919	-41.63	No Trend	0.1945
SBE5	SAV2	Cyanobacteria Biomass	0.0000	69129	0		Degrading	0.1538
SBE5	SAV2	Chlorophyte Biomass	0.6959	36	93308	0.88	No Trend	0.4920
SBE5	SAV2	Picoplankton Biomass	0.8925	-30720	30375000	-1.92	No Trend	0.3088
SBE5	SAV2	Cryptophyte Biomass	0.1376	-353553	24893580	-32.67	No Trend	0.7052
SBE5	SAV2	Cyanobacteria Abundance	0.0000	13820	7156	4442.23	Degrading	0.2195

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	SAV2	Phytoplankton IBI	0.2947	0.00	2.88	2.46	No Trend	0.2272
TF4.2	SAV2	Total Abundance	0.0027	-157704	10682292	-33.96	Decreasing	0.8785
TF4.2	SAV2	Total Biomass	0.2236	2620397	149036070	40.44	No Trend	0.7241
TF4.2	SAV2	Biomass to Abundance Ratio	0.0001	1.22	9.75	288.07	Improving	0.1182
TF4.2	SAV2	Margalef Diversity Index	0.0007	-0.02	1.97	-25.60	Degrading	0.3449
TF4.2	SAV2	Diatom Biomass	0.0268	3190828	56605567	129.65	No Trend	0.5536
TF4.2	SAV2	Dinoflagellate Biomass	0.3525	0	7649514	0.00	No Trend	0.0871
TF4.2	SAV2	Cyanobacteria Biomass	0.0000	99417	0		Degrading	0.7092
TF4.2	SAV2	Chlorophyte Biomass	0.1221	16867	186615	207.88	No Trend	0.1440
TF4.2	SAV2	Picoplankton Biomass	0.1148	-498443	114075000	-8.30	No Trend	0.9433
TF4.2	SAV2	Cryptophyte Biomass	0.3077	-143940	17076464	-19.39	No Trend	0.7533
TF4.2	SAV2	Cyanobacteria Abundance	0.0000	16599	6771	5638.37	Degrading	0.4868
RET4.3	SAV2	Phytoplankton IBI	0.5819	0.00	2.88	0.00	No Trend	0.4943
RET4.3	SAV2	Total Abundance	0.0003	-274510	15836293	-39.87	Decreasing	0.7517
RET4.3	SAV2	Total Biomass	0.1359	4367516	167106818	60.11	No Trend	0.8558
RET4.3	SAV2	Biomass to Abundance Ratio	0.0001	1.24	10.55	271.31	Improving	0.2368
RET4.3	SAV2	Margalef Diversity Index	0.0406	-0.01	1.74	-17.15	No Trend	0.0758
RET4.3	SAV2	Diatom Biomass	0.0153	4379573	68982517	146.02	No Trend	0.6440
RET4.3	SAV2	Dinoflagellate Biomass	0.7638	62454	26331560	5.46	No Trend	0.2810
RET4.3	SAV2	Cyanobacteria Biomass	0.0000	96667	8956	24826.61	Degrading	0.4300
RET4.3	SAV2	Chlorophyte Biomass	0.1989	1820	0		No Trend	0.7462
RET4.3	SAV2	Picoplankton Biomass	0.7441	-114536	60525000	-3.60	No Trend	0.3163
RET4.3	SAV2	Cryptophyte Biomass	0.4038	-210251	22963536	-21.06	No Trend	0.5147
RET4.3	SAV2	Cyanobacteria Abundance	0.0000	14655	25033	1346.50	Degrading	0.4201
WE4.2	SAV2	Phytoplankton IBI	0.9584	0.00	2.64	0.00	No Trend	0.1893
WE4.2	SAV2	Total Abundance	0.0033	-193609	12103187	-36.79	Decreasing	0.6480
WE4.2	SAV2	Total Biomass	0.2657	3956374	238135779	38.21	No Trend	0.7540
WE4.2	SAV2	Biomass to Abundance Ratio	0.0045	0.87	24.04	83.12	Improving	0.0564
WE4.2	SAV2	Margalef Diversity Index	0.0005	-0.03	2.46	-25.29	Degrading	0.2430
WE4.2	SAV2	Diatom Biomass	0.0814	4076544	157751238	59.44	No Trend	0.2481
WE4.2	SAV2	Dinoflagellate Biomass	0.3867	266909	28717700	21.38	No Trend	0.0852
WE4.2	SAV2	Cyanobacteria Biomass	0.0000	58813	8821	15334.23	Degrading	0.5508
WE4.2	SAV2	Chlorophyte Biomass	0.6835	0	93308	0.00	No Trend	0.7251
WE4.2	SAV2	Picoplankton Biomass	0.3290	-303302	52950000	-10.88	No Trend	0.8073
WE4.2	SAV2	Cryptophyte Biomass	0.1031	-367664	20780931	-40.69	No Trend	0.6779
WE4.2	SAV2	Cyanobacteria Abundance	0.0000	12411	7156	3989.17	Degrading	0.3804

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	SAV2	Phytoplankton IBI	0.6654	0.00	2.00	0.00	No Trend	0.2707
TF3.3	SAV2	Total Abundance	0.0409	-154519	14648586	-24.26	No Trend	0.3920
TF3.3	SAV2	Total Biomass	0.0007	10412403	115194434	207.90	Increasing	0.1925
TF3.3	SAV2	Biomass to Abundance Ratio	0.0000	1.48	7.81	435.96	Improving	0.0882
TF3.3	SAV2	Margalef Diversity Index	0.0292	-0.02	1.85	-19.13	No Trend	0.1426
TF3.3	SAV2	Diatom Biomass	0.0000	8692396	66057884	302.65	Improving	0.4485
TF3.3	SAV2	Dinoflagellate Biomass	0.9270	0	3493486	0.00	No Trend	0.3402
TF3.3	SAV2	Cyanobacteria Biomass	0.0000	167898	409217	943.67	Degrading	0.7687
TF3.3	SAV2	Chlorophyte Biomass	0.0010	125052	279934	1027.46	Improving	0.0614
TF3.3	SAV2	Picoplankton Biomass	0.1619	-541505	91500000	-11.24	No Trend	0.7792
TF3.3	SAV2	Cryptophyte Biomass	0.4070	-206267	19192682	-24.72	No Trend	0.7863
TF3.3	SAV2	Cyanobacteria Abundance	0.0000	31156	39722	1804.01	Degrading	0.5213
RET3.1	SAV2	Phytoplankton IBI	0.3711	0.01	2.50	6.84	No Trend	0.4273
RET3.1	SAV2	Total Abundance	0.0034	-214357	15388356	-32.04	Decreasing	0.8162
RET3.1	SAV2	Total Biomass	0.0276	7837100	171644447	105.02	No Trend	0.3449
RET3.1	SAV2	Biomass to Abundance Ratio	0.0003	1.12	13.63	188.73	Improving	0.1918
RET3.1	SAV2	Margalef Diversity Index	0.0110	-0.02	2.02	-19.70	No Trend	0.0045
RET3.1	SAV2	Diatom Biomass	0.0079	5953970	65308074	209.69	Improving	0.3088
RET3.1	SAV2	Dinoflagellate Biomass	0.7155	-6556	17675802	-0.85	No Trend	0.2518
RET3.1	SAV2	Cyanobacteria Biomass	0.0000	118344	13072	20822.47	Degrading	0.0248
RET3.1	SAV2	Chlorophyte Biomass	0.0014	116306	251275	1064.59	Improving	0.1140
RET3.1	SAV2	Picoplankton Biomass	0.2239	-554153	91500000	-11.51	No Trend	0.8188
RET3.1	SAV2	Cryptophyte Biomass	0.8026	-65284	18993531	-7.91	No Trend	0.3864
RET3.1	SAV2	Cyanobacteria Abundance	0.0000	22991	7917	6679.19	Degrading	0.1033
LE3.6	SAV2	Phytoplankton IBI	0.1614	0.01	3.01	9.44	No Trend	0.4047
LE3.6	SAV2	Total Abundance	0.0073	-160689	11783250	-31.37	Decreasing	0.8134
LE3.6	SAV2	Total Biomass	0.3961	2810501	298315941	21.67	No Trend	0.7579
LE3.6	SAV2	Biomass to Abundance Ratio	0.0089	0.82	33.68	56.05	Improving	0.0500
LE3.6	SAV2	Margalef Diversity Index	0.0020	-0.02	2.16	-22.74	Degrading	0.1234
LE3.6	SAV2	Diatom Biomass	0.1422	3218927	214016134	34.59	No Trend	0.2074
LE3.6	SAV2	Dinoflagellate Biomass	0.0151	679384	12864903	121.46	No Trend	0.0062
LE3.6	SAV2	Cyanobacteria Biomass	0.0000	92707	12876	16559.72	Degrading	0.2333
LE3.6	SAV2	Chlorophyte Biomass	0.6047	117	279939	0.96	No Trend	0.6093
LE3.6	SAV2	Picoplankton Biomass	0.0394	-515215	60300000	-16.23	No Trend	0.7533
LE3.6	SAV2	Cryptophyte Biomass	0.0755	-371606	23248505	-36.76	No Trend	0.5260
LE3.6	SAV2	Cyanobacteria Abundance	0.0000	19001	7917	5519.93	Degrading	0.2501

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	SAV2	Phytoplankton IBI	0.1082	0.01	2.94	10.70	No Trend	0.3704
CB6.1	SAV2	Total Abundance	0.0103	-162426	11452238	-32.62	No Trend	0.7770
CB6.1	SAV2	Total Biomass	0.4399	2729587	222794845	28.18	No Trend	0.6281
CB6.1	SAV2	Biomass to Abundance Ratio	0.0151	0.79	29.22	62.45	No Trend	0.0316
CB6.1	SAV2	Margalef Diversity Index	0.0151	-0.02	2.10	-17.90	No Trend	0.1794
CB6.1	SAV2	Diatom Biomass	0.0564	4095433	160157363	58.81	No Trend	0.3691
CB6.1	SAV2	Dinoflagellate Biomass	0.0387	502499	12566718	91.97	No Trend	0.0349
CB6.1	SAV2	Cyanobacteria Biomass	0.0000	67044	3921	39330.62	Degrading	0.3983
CB6.1	SAV2	Chlorophyte Biomass	0.7841	0	187352	0.00	No Trend	0.8193
CB6.1	SAV2	Picoplankton Biomass	0.1284	-529797	79350000	-12.69	No Trend	0.9300
CB6.1	SAV2	Cryptophyte Biomass	0.0125	-500587	21704806	-53.05	No Trend	0.9725
CB6.1	SAV2	Cyanobacteria Abundance	0.0000	11232	7917	3263.06	Degrading	0.3158
CB6.4	SAV2	Phytoplankton IBI	0.2555	0.01	2.88	9.57	No Trend	0.5867
CB6.4	SAV2	Total Abundance	0.0029	-165082	10936393	-34.72	Decreasing	0.7963
CB6.4	SAV2	Total Biomass	0.1470	4780240	208817329	52.65	No Trend	0.8686
CB6.4	SAV2	Biomass to Abundance Ratio	0.0015	1.15	23.15	114.25	Improving	0.1420
CB6.4	SAV2	Margalef Diversity Index	0.0021	-0.02	2.13	-20.61	Degrading	0.2344
CB6.4	SAV2	Diatom Biomass	0.0397	4777297	132413600	82.98	No Trend	0.5347
CB6.4	SAV2	Dinoflagellate Biomass	0.0854	485507	11906919	93.78	No Trend	0.0796
CB6.4	SAV2	Cyanobacteria Biomass	0.0000	82271	0		Degrading	0.8178
CB6.4	SAV2	Chlorophyte Biomass	0.3198	219	46654	10.81	No Trend	0.5352
CB6.4	SAV2	Picoplankton Biomass	0.0897	-538399	89212500	-11.47	No Trend	0.9520
CB6.4	SAV2	Cryptophyte Biomass	0.1961	-250978	16375084	-35.25	No Trend	0.4969
CB6.4	SAV2	Cyanobacteria Abundance	0.0000	13686	22995	1368.91	Degrading	0.2032
CB7.3E	SAV2	Phytoplankton IBI	0.4599	0.01	2.50	6.16	No Trend	0.5602
CB7.3E	SAV2	Total Abundance	0.0022	-165066	10766699	-35.26	Decreasing	0.9150
CB7.3E	SAV2	Total Biomass	0.2756	3682518	205936953	41.13	No Trend	0.7753
CB7.3E	SAV2	Biomass to Abundance Ratio	0.0009	1.17	29.08	92.57	Improving	0.1505
CB7.3E	SAV2	Margalef Diversity Index	0.0013	-0.02	2.32	-21.70	Degrading	0.2713
CB7.3E	SAV2	Diatom Biomass	0.0973	3319135	97944619	77.94	No Trend	0.2641
CB7.3E	SAV2	Dinoflagellate Biomass	0.2657	307653	27218087	26.00	No Trend	0.2268
CB7.3E	SAV2	Cyanobacteria Biomass	0.0000	71567	0		Degrading	0.7400
CB7.3E	SAV2	Chlorophyte Biomass	0.4271	0	93308	0.00	No Trend	0.4998
CB7.3E	SAV2	Picoplankton Biomass	0.0594	-669789	91500000	-13.91	No Trend	0.9533
CB7.3E	SAV2	Cryptophyte Biomass	0.0054	-556778	20990394	-61.01	Decreasing	0.7687
CB7.3E	SAV2	Cyanobacteria Abundance	0.0000	12495	7917	3629.87	Degrading	0.4863
CB7.4	SAV2	Phytoplankton IBI	0.9021	0.00	3.00	0.00	No Trend	0.7647
CB7.4	SAV2	Total Abundance	0.0031	-165816	11346851	-33.61	Decreasing	0.7739
CB7.4	SAV2	Total Biomass	0.1802	4343944	205936953	48.52	No Trend	0.8170
CB7.4	SAV2	Biomass to Abundance Ratio	0.0014	1.17	22.26	120.92	Improving	0.0742
CB7.4	SAV2	Margalef Diversity Index	0.0001	-0.02	2.33	-24.56	Degrading	0.1199
CB7.4	SAV2	Diatom Biomass	0.0508	4296528	94088333	105.03	No Trend	0.4166
CB7.4	SAV2	Dinoflagellate Biomass	0.1118	425597	19157713	51.10	No Trend	0.1348
CB7.4	SAV2	Cyanobacteria Biomass	0.0000	66968	0		Degrading	0.7593
CB7.4	SAV2	Chlorophyte Biomass	0.6618	0	1027	0.00	No Trend	0.7882
CB7.4	SAV2	Picoplankton Biomass	0.0778	-736562	123750000	-11.31	No Trend	0.8528
CB7.4	SAV2	Cryptophyte Biomass	0.1557	-281756	16053530	-40.37	No Trend	0.9674
CB7.4	SAV2	Cyanobacteria Abundance	0.0000	13091	3498	8608.90	Degrading	0.4065

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Spring1	Phytoplankton IBI	0.8207	0.00	3.50	0.00	No Trend	0.7693
TF5.5	Spring1	Total Abundance	0.0835	-696241	34506041	-44.39	No Trend	0.0059
TF5.5	Spring1	Total Biomass	0.0332	25928540	405881611	140.54	No Trend	0.2134
TF5.5	Spring1	Biomass to Abundance Ratio	0.0000	2.35	11.94	432.61	Improving	0.4592
TF5.5	Spring1	Margalef Diversity Index	0.4054	-0.01	2.09	-6.08	No Trend	0.5705
TF5.5	Spring1	Diatom Biomass	0.1431	13299030	373070696	78.42	No Trend	0.1792
TF5.5	Spring1	Dinoflagellate Biomass	0.9596	0	457994	0.00	No Trend	0.6775
TF5.5	Spring1	Cyanobacteria Biomass	0.6653	53613	7703066	15.31	No Trend	0.4215
TF5.5	Spring1	Chlorophyte Biomass	0.0000	8880509	1172320	16665.35	Improving	0.6184
TF5.5	Spring1	Picoplankton Biomass	0.7532	-49393	23775000	-3.74	No Trend	0.3547
TF5.5	Spring1	Cryptophyte Biomass	0.4740	-299490	13077419	-50.38	No Trend	0.7806
TF5.5	Spring1	Cyanobacteria Abundance	0.0217	34104	377703	198.65	No Trend	0.1779
RET5.2	Spring1	Phytoplankton IBI	0.1208	0.03	2.00	35.00	No Trend	0.6717
RET5.2	Spring1	Total Abundance	0.0119	-754012	28141690	-58.95	No Trend	0.6315
RET5.2	Spring1	Total Biomass	0.0209	19973399	177092907	248.13	No Trend	0.3739
RET5.2	Spring1	Biomass to Abundance Ratio	0.0002	1.94	8.41	508.64	Improving	0.4590
RET5.2	Spring1	Margalef Diversity Index	0.1636	-0.02	1.47	-23.91	No Trend	0.9919
RET5.2	Spring1	Diatom Biomass	0.5186	4606229	94308401	107.45	No Trend	0.2909
RET5.2	Spring1	Dinoflagellate Biomass	0.2032	0	0		No Trend	0.2365
RET5.2	Spring1	Cyanobacteria Biomass	0.4756	91615	1259821	159.98	No Trend	0.7496
RET5.2	Spring1	Chlorophyte Biomass	0.0009	5526409	184240	65990.64	Improving	0.2413
RET5.2	Spring1	Picoplankton Biomass	0.8358	-89469	29137500	-5.53	No Trend	0.6237
RET5.2	Spring1	Cryptophyte Biomass	0.5518	273068	10812087	55.56	No Trend	0.7379
RET5.2	Spring1	Cyanobacteria Abundance	0.7340	5537	171021	71.22	No Trend	0.9962
LE5.5	Spring1	Phytoplankton IBI	0.5058	0.02	2.34	9.06	No Trend	0.9211
LE5.5	Spring1	Total Abundance	0.0357	-284924	23066457	-27.18	No Trend	0.7778
LE5.5	Spring1	Total Biomass	0.7571	-1898099	733951405	-5.69	No Trend	0.3656
LE5.5	Spring1	Biomass to Abundance Ratio	0.1766	1.11	35.18	69.31	No Trend	0.9023
LE5.5	Spring1	Margalef Diversity Index	0.3368	-0.01	2.41	-9.36	No Trend	0.8740
LE5.5	Spring1	Diatom Biomass	0.5911	-3379267	628529660	-11.83	No Trend	0.6427
LE5.5	Spring1	Dinoflagellate Biomass	0.0936	2123340	24114040	193.72	No Trend	0.6798
LE5.5	Spring1	Cyanobacteria Biomass	0.0173	49837	272786	401.93	No Trend	0.9767
LE5.5	Spring1	Chlorophyte Biomass	0.9480	0	625033	0.00	No Trend	0.4226
LE5.5	Spring1	Picoplankton Biomass	0.9129	-21851	10950000	-3.59	No Trend	0.6453
LE5.5	Spring1	Cryptophyte Biomass	0.5688	-178088	20438128	-19.17	No Trend	0.2418
LE5.5	Spring1	Cyanobacteria Abundance	0.0166	7195	64595	245.05	No Trend	0.9174
SBE5	Spring1	Phytoplankton IBI	0.0701	0.03	1.00	62.54	No Trend	0.4947
SBE5	Spring1	Total Abundance	0.0023	-250137	5444762	-87.29	Decreasing	0.7590
SBE5	Spring1	Total Biomass	0.0006	-11278812	105613691	-202.91	Decreasing	0.8384
SBE5	Spring1	Biomass to Abundance Ratio	0.0501	-1.31	21.93	-113.77	No Trend	0.6715
SBE5	Spring1	Margalef Diversity Index	0.0550	-0.03	2.75	-18.50	No Trend	0.0537
SBE5	Spring1	Diatom Biomass	0.0050	-6452090	68264014	-179.58	Degrading	0.5770
SBE5	Spring1	Dinoflagellate Biomass	0.1515	-653091	14309551	-86.72	No Trend	0.5130
SBE5	Spring1	Cyanobacteria Biomass	0.0935	39266	118189	631.23	No Trend	0.4608
SBE5	Spring1	Chlorophyte Biomass	0.8239	-552	1960565	-0.54	No Trend	0.3113
SBE5	Spring1	Picoplankton Biomass	0.1507	140910	3570000	71.05	No Trend	0.6489
SBE5	Spring1	Cryptophyte Biomass	0.4548	-263804	11010350	-45.52	No Trend	0.2936
SBE5	Spring1	Cyanobacteria Abundance	0.0454	8854	30633	549.15	No Trend	0.6525

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Spring1	Phytoplankton IBI	0.0138	0.06	1.50	79.17	No Trend	0.4825
TF4.2	Spring1	Total Abundance	0.1250	-138472	19826390	-14.67	No Trend	0.8469
TF4.2	Spring1	Total Biomass	0.7482	915934	124578625	15.44	No Trend	0.6244
TF4.2	Spring1	Biomass to Abundance Ratio	0.0246	1.51	8.37	379.80	No Trend	0.2870
TF4.2	Spring1	Margalef Diversity Index	0.0385	-0.02	1.73	-24.72	No Trend	0.9060
TF4.2	Spring1	Diatom Biomass	0.7754	588033	109093790	11.32	No Trend	0.7814
TF4.2	Spring1	Dinoflagellate Biomass	0.1708	0	247360	0.00	No Trend	0.1637
TF4.2	Spring1	Cyanobacteria Biomass	0.0003	120957	3427	74122.69	Degrading	0.7255
TF4.2	Spring1	Chlorophyte Biomass	0.1082	78235	375083	438.02	No Trend	0.0473
TF4.2	Spring1	Picoplankton Biomass	0.4724	-204389	73200000	-5.03	No Trend	0.9598
TF4.2	Spring1	Cryptophyte Biomass	0.9573	-14476	8077048	-3.76	No Trend	0.4804
TF4.2	Spring1	Cyanobacteria Abundance	0.0007	17809	1819	20559.72	Degrading	0.8612
RET4.3	Spring1	Phytoplankton IBI	0.8884	0.00	3.20	0.00	No Trend	0.3209
RET4.3	Spring1	Total Abundance	0.0116	-693107	46956641	-32.47	No Trend	0.4074
RET4.3	Spring1	Total Biomass	0.4442	4355569	364195432	26.31	No Trend	0.8124
RET4.3	Spring1	Biomass to Abundance Ratio	0.0199	1.57	10.11	341.41	No Trend	0.7455
RET4.3	Spring1	Margalef Diversity Index	0.8835	0.00	1.62	-3.24	No Trend	0.4602
RET4.3	Spring1	Diatom Biomass	0.4839	2111261	122992779	37.76	No Trend	0.6628
RET4.3	Spring1	Dinoflagellate Biomass	0.6022	260592	85899159	6.67	No Trend	0.6136
RET4.3	Spring1	Cyanobacteria Biomass	0.0037	122052	313257	857.17	Degrading	0.4828
RET4.3	Spring1	Chlorophyte Biomass	0.2399	28124	0		No Trend	0.6470
RET4.3	Spring1	Picoplankton Biomass	0.2647	186441	20550000	16.33	No Trend	0.4277
RET4.3	Spring1	Cryptophyte Biomass	0.8706	65231	22465665	6.39	No Trend	0.2446
RET4.3	Spring1	Cyanobacteria Abundance	0.0041	12471	57360	478.31	Degrading	0.8707
WE4.2	Spring1	Phytoplankton IBI	0.6921	0.00	2.45	0.00	No Trend	0.1245
WE4.2	Spring1	Total Abundance	0.1431	-225917	18560870	-26.78	No Trend	0.4185
WE4.2	Spring1	Total Biomass	0.8417	1550458	602906045	5.66	No Trend	0.7184
WE4.2	Spring1	Biomass to Abundance Ratio	0.5492	0.38	30.05	28.00	No Trend	0.5236
WE4.2	Spring1	Margalef Diversity Index	0.0258	-0.04	2.61	-31.91	No Trend	0.5052
WE4.2	Spring1	Diatom Biomass	0.7393	-2240670	453995723	-10.86	No Trend	0.4500
WE4.2	Spring1	Dinoflagellate Biomass	0.1724	1928485	66317591	63.97	No Trend	0.1768
WE4.2	Spring1	Cyanobacteria Biomass	0.0048	36682	22544	3579.70	Degrading	0.7999
WE4.2	Spring1	Chlorophyte Biomass	0.9063	0	228094	0.00	No Trend	0.6600
WE4.2	Spring1	Picoplankton Biomass	0.8574	25457	10875000	4.21	No Trend	0.9574
WE4.2	Spring1	Cryptophyte Biomass	0.3181	-284656	20289921	-30.86	No Trend	0.2570
WE4.2	Spring1	Cyanobacteria Abundance	0.0045	8290	21658	842.08	Degrading	0.7603

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Spring1	Phytoplankton IBI	0.2073	0.02	1.25	28.00	No Trend	0.2684
TF3.3	Spring1	Total Abundance	0.9051	-30696	22330421	-3.02	No Trend	0.5650
TF3.3	Spring1	Total Biomass	0.0003	20685505	101044064	450.38	Increasing	0.1818
TF3.3	Spring1	Biomass to Abundance Ratio	0.0003	2.31	3.56	1426.68	Improving	0.1494
TF3.3	Spring1	Margalef Diversity Index	0.7723	0.00	1.53	-4.59	No Trend	0.8975
TF3.3	Spring1	Diatom Biomass	0.0002	14846684	77981323	418.85	Improving	0.1758
TF3.3	Spring1	Dinoflagellate Biomass	0.8213	0	200711	0.00	No Trend	0.7787
TF3.3	Spring1	Cyanobacteria Biomass	0.0001	535611	1891309	623.03	Degrading	0.7402
TF3.3	Spring1	Chlorophyte Biomass	0.0000	3975217	2819101	3102.22	Improving	0.2901
TF3.3	Spring1	Picoplankton Biomass	0.6609	-183448	21300000	-15.50	No Trend	0.5770
TF3.3	Spring1	Cryptophyte Biomass	0.8381	51798	6762976	16.85	No Trend	0.6211
TF3.3	Spring1	Cyanobacteria Abundance	0.0003	116975	287707	894.47	Degrading	0.9119
RET3.1	Spring1	Phytoplankton IBI	0.0495	0.05	2.09	47.84	No Trend	0.7905
RET3.1	Spring1	Total Abundance	0.1479	-492386	34336597	-31.55	No Trend	0.7187
RET3.1	Spring1	Total Biomass	0.0685	15526439	452974364	75.41	No Trend	0.1278
RET3.1	Spring1	Biomass to Abundance Ratio	0.0919	1.14	15.98	157.55	No Trend	0.8350
RET3.1	Spring1	Margalef Diversity Index	0.4042	-0.01	1.88	-13.25	No Trend	0.0066
RET3.1	Spring1	Diatom Biomass	0.3152	5815715	314079217	40.74	No Trend	0.1330
RET3.1	Spring1	Dinoflagellate Biomass	0.6438	-1124	51646866	-0.05	No Trend	0.4921
RET3.1	Spring1	Cyanobacteria Biomass	0.0082	452336	1845512	539.22	Degrading	0.0109
RET3.1	Spring1	Chlorophyte Biomass	0.0001	1877809	1044153	3956.49	Improving	0.5173
RET3.1	Spring1	Picoplankton Biomass	0.8716	-112650	44100000	-4.60	No Trend	0.7726
RET3.1	Spring1	Cryptophyte Biomass	0.2832	672663	8246259	179.46	No Trend	0.3615
RET3.1	Spring1	Cyanobacteria Abundance	0.0042	50962	142914	784.51	Degrading	0.1044
LE3.6	Spring1	Phytoplankton IBI	0.0215	0.05	3.33	28.84	No Trend	0.9547
LE3.6	Spring1	Total Abundance	0.2886	-134383	18561667	-15.93	No Trend	0.9239
LE3.6	Spring1	Total Biomass	0.8211	-4521412	924579977	-10.76	No Trend	0.9729
LE3.6	Spring1	Biomass to Abundance Ratio	0.8482	0.18	49.54	7.89	No Trend	0.8131
LE3.6	Spring1	Margalef Diversity Index	0.0984	-0.02	2.18	-19.81	No Trend	0.2286
LE3.6	Spring1	Diatom Biomass	0.4136	-9353446	726913793	-28.31	No Trend	0.7252
LE3.6	Spring1	Dinoflagellate Biomass	0.0002	2974390	14411135	454.07	Degrading	0.1326
LE3.6	Spring1	Cyanobacteria Biomass	0.0015	118039	281853	921.35	Degrading	0.1512
LE3.6	Spring1	Chlorophyte Biomass	0.9722	0	829440	0.00	No Trend	0.4359
LE3.6	Spring1	Picoplankton Biomass	0.1482	-315700	14902500	-38.13	No Trend	0.4054
LE3.6	Spring1	Cryptophyte Biomass	0.2233	-320069	23248505	-30.29	No Trend	0.1496
LE3.6	Spring1	Cyanobacteria Abundance	0.0001	22720	51610	968.51	Degrading	0.2614

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Spring1	Phytoplankton IBI	0.0129	0.04	3.17	24.19	No Trend	0.9845
CB6.1	Spring1	Total Abundance	0.3670	-120840	18620182	-14.28	No Trend	0.9396
CB6.1	Spring1	Total Biomass	0.7464	-3453302	847407293	-8.97	No Trend	0.6943
CB6.1	Spring1	Biomass to Abundance Ratio	0.9593	-0.05	49.15	-2.43	No Trend	0.6416
CB6.1	Spring1	Margalef Diversity Index	0.5068	-0.01	2.16	-6.92	No Trend	0.8257
CB6.1	Spring1	Diatom Biomass	0.9051	-1368453	788970914	-3.82	No Trend	0.6239
CB6.1	Spring1	Dinoflagellate Biomass	0.0015	1966299	12830206	337.16	Degrading	0.4430
CB6.1	Spring1	Cyanobacteria Biomass	0.0036	29060	101179	631.86	Degrading	0.4072
CB6.1	Spring1	Chlorophyte Biomass	0.7450	0	272649	0.00	No Trend	0.9815
CB6.1	Spring1	Picoplankton Biomass	0.5330	-200271	34875000	-10.34	No Trend	0.9273
CB6.1	Spring1	Cryptophyte Biomass	0.0216	-707611	17091693	-91.08	No Trend	1.0000
CB6.1	Spring1	Cyanobacteria Abundance	0.0206	3982	134573	65.10	No Trend	0.8270
CB6.4	Spring1	Phytoplankton IBI	0.0848	0.03	2.83	25.21	No Trend	0.9807
CB6.4	Spring1	Total Abundance	0.1258	-156696	13398933	-25.73	No Trend	0.6320
CB6.4	Spring1	Total Biomass	0.4847	6687915	340303551	43.24	No Trend	0.8665
CB6.4	Spring1	Biomass to Abundance Ratio	0.2721	1.27	27.56	101.41	No Trend	0.9448
CB6.4	Spring1	Margalef Diversity Index	0.1030	-0.01	2.13	-14.47	No Trend	0.5977
CB6.4	Spring1	Diatom Biomass	0.8941	612226	320506882	4.20	No Trend	0.8706
CB6.4	Spring1	Dinoflagellate Biomass	0.0086	2104381	8880118	521.35	Degrading	0.5822
CB6.4	Spring1	Cyanobacteria Biomass	0.0000	79030	0		Degrading	0.7496
CB6.4	Spring1	Chlorophyte Biomass	0.4509	239	46654	11.25	No Trend	0.3003
CB6.4	Spring1	Picoplankton Biomass	0.3691	-202819	22826250	-15.99	No Trend	0.9489
CB6.4	Spring1	Cryptophyte Biomass	0.6177	-151656	13803325	-24.17	No Trend	0.1544
CB6.4	Spring1	Cyanobacteria Abundance	0.0009	10264	81262	277.87	Degrading	0.2261
CB7.3E	Spring1	Phytoplankton IBI	0.2055	0.02	2.48	19.08	No Trend	0.6945
CB7.3E	Spring1	Total Abundance	0.0987	-159013	14423439	-24.25	No Trend	0.9285
CB7.3E	Spring1	Total Biomass	0.8782	1466011	688912161	4.68	No Trend	0.8096
CB7.3E	Spring1	Biomass to Abundance Ratio	0.2017	1.39	41.83	73.35	No Trend	0.8630
CB7.3E	Spring1	Margalef Diversity Index	0.0635	-0.02	2.62	-17.49	No Trend	0.6670
CB7.3E	Spring1	Diatom Biomass	0.6215	-1732209	636917083	-5.98	No Trend	0.6684
CB7.3E	Spring1	Dinoflagellate Biomass	0.0795	1529046	51016358	65.94	No Trend	0.9261
CB7.3E	Spring1	Cyanobacteria Biomass	0.0000	48471	127030	839.46	Degrading	0.6118
CB7.3E	Spring1	Chlorophyte Biomass	0.6502	0	93313	0.00	No Trend	0.2670
CB7.3E	Spring1	Picoplankton Biomass	0.2390	-406000	17587500	-41.55	No Trend	0.8947
CB7.3E	Spring1	Cryptophyte Biomass	0.0064	-730039	20635407	-77.83	Decreasing	0.5461
CB7.3E	Spring1	Cyanobacteria Abundance	0.0002	7953	11687	1497.07	Degrading	0.7863
CB7.4	Spring1	Phytoplankton IBI	0.5950	0.02	3.08	12.51	No Trend	0.7621
CB7.4	Spring1	Total Abundance	0.1386	-157420	13115360	-26.41	No Trend	0.6181
CB7.4	Spring1	Total Biomass	0.5977	4138407	466508061	19.52	No Trend	0.7668
CB7.4	Spring1	Biomass to Abundance Ratio	0.2685	1.35	31.76	93.17	No Trend	0.4071
CB7.4	Spring1	Margalef Diversity Index	0.0068	-0.03	2.61	-23.54	Degrading	0.1748
CB7.4	Spring1	Diatom Biomass	0.9593	-83143	423391988	-0.43	No Trend	0.7122
CB7.4	Spring1	Dinoflagellate Biomass	0.0136	1820073	26533496	150.91	No Trend	0.9603
CB7.4	Spring1	Cyanobacteria Biomass	0.0007	30896	980	69348.14	Degrading	0.9926
CB7.4	Spring1	Chlorophyte Biomass	0.9305	0	1027	0.00	No Trend	0.7974
CB7.4	Spring1	Picoplankton Biomass	0.3208	-375113	90937500	-7.42	No Trend	0.6005
CB7.4	Spring1	Cryptophyte Biomass	0.4959	-154199	11627377	-29.18	No Trend	0.8204
CB7.4	Spring1	Cyanobacteria Abundance	0.0004	8229	144	125725.93	Degrading	0.5996



Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Spring2	Phytoplankton IBI	0.8030	0.00	1.40	0.00	No Trend	0.9137
TF5.5	Spring2	Total Abundance	0.0064	-1352666	54838620	-54.27	Decreasing	0.1819
TF5.5	Spring2	Total Biomass	0.0961	16543303	594026915	61.27	No Trend	0.5243
TF5.5	Spring2	Biomass to Abundance Ratio	0.0000	2.10	11.94	385.99	Improving	0.2710
TF5.5	Spring2	Margalef Diversity Index	0.6896	0.00	2.63	-2.86	No Trend	0.8902
TF5.5	Spring2	Diatom Biomass	0.7646	1229650	458021535	5.91	No Trend	0.9617
TF5.5	Spring2	Dinoflagellate Biomass	0.9866	0	868116	0.00	No Trend	0.6832
TF5.5	Spring2	Cyanobacteria Biomass	0.6653	78916	24760595	7.01	No Trend	0.4215
TF5.5	Spring2	Chlorophyte Biomass	0.0001	14052457	20651591	1497.00	Improving	0.8880
TF5.5	Spring2	Picoplankton Biomass	0.0220	-1921104	153525000	-22.52	No Trend	0.4041
TF5.5	Spring2	Cryptophyte Biomass	0.5827	-257537	14541572	-38.96	No Trend	0.6635
TF5.5	Spring2	Cyanobacteria Abundance	0.5272	17611	2753546	14.07	No Trend	0.8338
RET5.2	Spring2	Phytoplankton IBI	0.3262	0.01	3.00	5.00	No Trend	0.4889
RET5.2	Spring2	Total Abundance	0.0072	-1362850	37800406	-79.32	Decreasing	0.7487
RET5.2	Spring2	Total Biomass	0.1001	18703827	278812777	147.58	No Trend	0.6798
RET5.2	Spring2	Biomass to Abundance Ratio	0.0013	1.49	7.62	429.26	Improving	0.6798
RET5.2	Spring2	Margalef Diversity Index	0.0167	-0.03	1.47	-46.83	No Trend	0.3468
RET5.2	Spring2	Diatom Biomass	0.6138	5511637	188205956	64.43	No Trend	0.4641
RET5.2	Spring2	Dinoflagellate Biomass	0.9731	0	3404385	0.00	No Trend	0.9198
RET5.2	Spring2	Cyanobacteria Biomass	0.6840	54653	1332341	90.24	No Trend	0.6951
RET5.2	Spring2	Chlorophyte Biomass	0.0658	3717519	772357	10589.07	No Trend	0.6160
RET5.2	Spring2	Picoplankton Biomass	0.6150	402300	298800000	2.42	No Trend	0.9754
RET5.2	Spring2	Cryptophyte Biomass	0.4938	358196	15769672	49.97	No Trend	0.7069
RET5.2	Spring2	Cyanobacteria Abundance	0.8579	-5341	450714	-26.07	No Trend	0.7222
LE5.5	Spring2	Phytoplankton IBI	0.5127	0.02	2.34	10.40	No Trend	0.7251
LE5.5	Spring2	Total Abundance	0.0236	-284924	15671620	-40.00	No Trend	0.6777
LE5.5	Spring2	Total Biomass	0.3051	5379023	381658775	31.01	No Trend	0.8722
LE5.5	Spring2	Biomass to Abundance Ratio	0.0658	1.61	28.57	124.28	No Trend	0.6565
LE5.5	Spring2	Margalef Diversity Index	0.0304	-0.03	2.47	-25.28	No Trend	0.4314
LE5.5	Spring2	Diatom Biomass	0.8324	583539	331268469	3.88	No Trend	0.9494
LE5.5	Spring2	Dinoflagellate Biomass	0.1984	1271559	23546621	118.80	No Trend	0.7721
LE5.5	Spring2	Cyanobacteria Biomass	0.0035	41654	592996	154.54	Degrading	0.6362
LE5.5	Spring2	Chlorophyte Biomass	0.9869	0	332421	0.00	No Trend	0.4343
LE5.5	Spring2	Picoplankton Biomass	0.9129	-51192	128550000	-0.72	No Trend	0.6453
LE5.5	Spring2	Cryptophyte Biomass	0.6603	-116593	20540195	-12.49	No Trend	0.3053
LE5.5	Spring2	Cyanobacteria Abundance	0.0010	8246	46701	388.44	Degrading	0.5205
SBE5	Spring2	Phytoplankton IBI	0.3997	0.00	1.33	0.00	No Trend	0.8043
SBE5	Spring2	Total Abundance	0.2496	-86161	4955850	-33.03	No Trend	0.0035
SBE5	Spring2	Total Biomass	0.0455	-7759922	90436945	-163.03	No Trend	0.0351
SBE5	Spring2	Biomass to Abundance Ratio	0.0130	-1.29	19.99	-123.07	No Trend	0.8848
SBE5	Spring2	Margalef Diversity Index	0.0026	-0.04	2.52	-31.88	Degrading	0.2741
SBE5	Spring2	Diatom Biomass	0.0936	-3644656	50992621	-135.80	No Trend	0.0427
SBE5	Spring2	Dinoflagellate Biomass	0.0936	-438228	11063352	-75.26	No Trend	0.6553
SBE5	Spring2	Cyanobacteria Biomass	0.1888	15302	361014	80.53	No Trend	0.6046
SBE5	Spring2	Chlorophyte Biomass	0.4529	-1537	1335332	-2.19	No Trend	0.4714
SBE5	Spring2	Picoplankton Biomass	0.8574	-57814	16957500	-6.14	No Trend	0.2552
SBE5	Spring2	Cryptophyte Biomass	0.5855	-235721	13639397	-32.84	No Trend	0.2576
SBE5	Spring2	Cyanobacteria Abundance	0.1147	3975	30633	246.54	No Trend	0.9107

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Spring2	Phytoplankton IBI	0.0575	0.06	1.00	105.56	No Trend	0.2387
TF4.2	Spring2	Total Abundance	0.1536	-148356	24374042	-12.78	No Trend	0.9156
TF4.2	Spring2	Total Biomass	0.4326	3271971	98902762	69.47	No Trend	0.7108
TF4.2	Spring2	Biomass to Abundance Ratio	0.0420	1.37	4.22	679.80	No Trend	0.2728
TF4.2	Spring2	Margalef Diversity Index	0.1536	-0.01	1.73	-15.28	No Trend	0.6463
TF4.2	Spring2	Diatom Biomass	0.5926	868434	78215798	23.32	No Trend	0.8557
TF4.2	Spring2	Dinoflagellate Biomass	0.8981	0	346371	0.00	No Trend	0.2727
TF4.2	Spring2	Cyanobacteria Biomass	0.0012	143947	22260	13579.65	Degrading	0.4071
TF4.2	Spring2	Chlorophyte Biomass	0.0160	229574	253828	1899.34	No Trend	0.0436
TF4.2	Spring2	Picoplankton Biomass	0.3691	-488475	122475000	-7.18	No Trend	0.9514
TF4.2	Spring2	Cryptophyte Biomass	0.4754	-82697	8112016	-21.41	No Trend	0.9650
TF4.2	Spring2	Cyanobacteria Abundance	0.0107	18068	4288	8848.56	No Trend	0.3358
RET4.3	Spring2	Phytoplankton IBI	0.8078	0.00	1.60	0.00	No Trend	0.1392
RET4.3	Spring2	Total Abundance	0.0003	-851217	27006364	-69.34	Decreasing	0.8653
RET4.3	Spring2	Total Biomass	0.3345	4126056	224844364	40.37	No Trend	0.6997
RET4.3	Spring2	Biomass to Abundance Ratio	0.0016	1.85	9.82	413.64	Improving	0.2988
RET4.3	Spring2	Margalef Diversity Index	0.5272	-0.01	1.64	-7.32	No Trend	0.5308
RET4.3	Spring2	Diatom Biomass	0.7901	-740166	122992779	-13.24	No Trend	0.3352
RET4.3	Spring2	Dinoflagellate Biomass	0.3427	514978	28645503	39.55	No Trend	0.7391
RET4.3	Spring2	Cyanobacteria Biomass	0.0158	153117	592048	568.97	No Trend	0.4546
RET4.3	Spring2	Chlorophyte Biomass	0.0530	154510	178419	1905.20	No Trend	0.2933
RET4.3	Spring2	Picoplankton Biomass	0.6861	-161215	82500000	-3.52	No Trend	0.1859
RET4.3	Spring2	Cryptophyte Biomass	0.1177	-659709	22465665	-64.60	No Trend	0.3633
RET4.3	Spring2	Cyanobacteria Abundance	0.0016	22683	57472	868.30	Degrading	0.8239
WE4.2	Spring2	Phytoplankton IBI	0.4535	-0.01	2.39	-9.59	No Trend	0.9613
WE4.2	Spring2	Total Abundance	0.0624	-297455	18560870	-35.26	No Trend	0.3216
WE4.2	Spring2	Total Biomass	0.8417	-1765479	451367966	-8.61	No Trend	0.5985
WE4.2	Spring2	Biomass to Abundance Ratio	0.4054	0.74	24.30	66.76	No Trend	0.5357
WE4.2	Spring2	Margalef Diversity Index	0.0217	-0.03	2.61	-25.88	No Trend	0.4552
WE4.2	Spring2	Diatom Biomass	0.2441	-4975118	318380167	-34.38	No Trend	0.5022
WE4.2	Spring2	Dinoflagellate Biomass	0.8941	134508	80563784	3.67	No Trend	0.1542
WE4.2	Spring2	Cyanobacteria Biomass	0.0008	37783	13722	6057.55	Degrading	0.5657
WE4.2	Spring2	Chlorophyte Biomass	0.4492	177	299537	1.30	No Trend	0.3931
WE4.2	Spring2	Picoplankton Biomass	0.5005	-421648	66862500	-11.35	No Trend	0.6779
WE4.2	Spring2	Cryptophyte Biomass	0.8417	-116766	18157448	-14.15	No Trend	0.2733
WE4.2	Spring2	Cyanobacteria Abundance	0.0008	10015	20314	1084.59	Degrading	0.5310

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Spring2	Phytoplankton IBI	0.8753	0.00	1.50	0.00	No Trend	0.3296
TF3.3	Spring2	Total Abundance	0.4226	287972	23104409	27.42	No Trend	0.3637
TF3.3	Spring2	Total Biomass	0.0000	69746419	100119882	1532.58	Increasing	0.1888
TF3.3	Spring2	Biomass to Abundance Ratio	0.0001	2.26	4.51	1101.88	Improving	0.2313
TF3.3	Spring2	Margalef Diversity Index	0.8616	0.00	1.60	-3.82	No Trend	0.8113
TF3.3	Spring2	Diatom Biomass	0.0000	39053180	72419559	1186.38	Improving	0.5886
TF3.3	Spring2	Dinoflagellate Biomass	0.4373	940	836410	2.47	No Trend	0.9979
TF3.3	Spring2	Cyanobacteria Biomass	0.0000	943778	1471586	1410.93	Degrading	0.4576
TF3.3	Spring2	Chlorophyte Biomass	0.0000	8549108	3712975	5065.49	Improving	0.9029
TF3.3	Spring2	Picoplankton Biomass	0.6343	-369829	129525000	-5.14	No Trend	0.5758
TF3.3	Spring2	Cryptophyte Biomass	0.7934	-69539	20988926	-7.29	No Trend	0.5609
TF3.3	Spring2	Cyanobacteria Abundance	0.0000	333519	82925	8848.26	Degrading	0.5068
RET3.1	Spring2	Phytoplankton IBI	0.1618	0.05	1.67	54.44	No Trend	0.5358
RET3.1	Spring2	Total Abundance	0.2223	-566444	34336597	-36.29	No Trend	0.6935
RET3.1	Spring2	Total Biomass	0.0280	17499926	267683864	143.83	No Trend	0.1302
RET3.1	Spring2	Biomass to Abundance Ratio	0.0698	0.96	10.83	194.85	No Trend	0.7851
RET3.1	Spring2	Margalef Diversity Index	0.7803	0.00	1.62	-5.01	No Trend	0.0099
RET3.1	Spring2	Diatom Biomass	0.0509	9128864	198998723	100.92	No Trend	0.1852
RET3.1	Spring2	Dinoflagellate Biomass	0.5633	-33128	61527530	-1.18	No Trend	0.4625
RET3.1	Spring2	Cyanobacteria Biomass	0.0001	963700	966298	2194.09	Degrading	0.1026
RET3.1	Spring2	Chlorophyte Biomass	0.0001	1791872	886185	4448.42	Improving	0.4317
RET3.1	Spring2	Picoplankton Biomass	0.6343	-479961	260775000	-3.31	No Trend	0.7554
RET3.1	Spring2	Cryptophyte Biomass	0.9861	0	13448745	0.00	No Trend	0.0512
RET3.1	Spring2	Cyanobacteria Abundance	0.0004	124792	101442	2706.42	Degrading	0.3034
LE3.6	Spring2	Phytoplankton IBI	0.0840	0.04	3.00	24.63	No Trend	0.9967
LE3.6	Spring2	Total Abundance	0.0789	-223582	16792266	-29.29	No Trend	0.5474
LE3.6	Spring2	Total Biomass	0.6139	-5519989	566007385	-21.46	No Trend	0.8798
LE3.6	Spring2	Biomass to Abundance Ratio	0.8756	0.17	42.52	8.86	No Trend	0.8353
LE3.6	Spring2	Margalef Diversity Index	0.0129	-0.03	2.26	-24.39	No Trend	0.6649
LE3.6	Spring2	Diatom Biomass	0.5198	-4983391	460583604	-23.80	No Trend	0.8485
LE3.6	Spring2	Dinoflagellate Biomass	0.1588	1125531	28162998	87.92	No Trend	0.4892
LE3.6	Spring2	Cyanobacteria Biomass	0.0011	85585	408883	460.49	Degrading	0.1450
LE3.6	Spring2	Chlorophyte Biomass	0.4000	-240	829440	-0.64	No Trend	0.7050
LE3.6	Spring2	Picoplankton Biomass	0.0215	-966133	164062500	-10.60	No Trend	0.4573
LE3.6	Spring2	Cryptophyte Biomass	0.0031	-943558	26077567	-79.60	Decreasing	0.7867
LE3.6	Spring2	Cyanobacteria Abundance	0.0002	22142	46810	1040.67	Degrading	0.2457

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Spring2	Phytoplankton IBI	0.0390	0.04	2.18	36.17	No Trend	0.8636
CB6.1	Spring2	Total Abundance	0.2541	-124625	11350673	-24.16	No Trend	0.8668
CB6.1	Spring2	Total Biomass	0.2541	-6877399	768108184	-19.70	No Trend	0.3715
CB6.1	Spring2	Biomass to Abundance Ratio	0.9051	-0.05	42.32	-2.83	No Trend	0.6349
CB6.1	Spring2	Margalef Diversity Index	0.0739	-0.02	2.27	-20.57	No Trend	0.5702
CB6.1	Spring2	Diatom Biomass	0.7723	-2275416	652799681	-7.67	No Trend	0.5575
CB6.1	Spring2	Dinoflagellate Biomass	0.1899	658662	20787581	69.71	No Trend	0.0882
CB6.1	Spring2	Cyanobacteria Biomass	0.0001	109892	97423	2481.57	Degrading	0.8239
CB6.1	Spring2	Chlorophyte Biomass	0.4691	177	47016	8.27	No Trend	0.3376
CB6.1	Spring2	Picoplankton Biomass	0.0614	-1669650	61725000	-48.69	No Trend	0.3864
CB6.1	Spring2	Cryptophyte Biomass	0.0136	-937040	25196049	-81.82	No Trend	0.9745
CB6.1	Spring2	Cyanobacteria Abundance	0.0001	20381	134573	333.19	Degrading	0.2019
CB6.4	Spring2	Phytoplankton IBI	0.1363	0.04	2.88	32.00	No Trend	0.8869
CB6.4	Spring2	Total Abundance	0.0181	-300470	13273329	-49.80	No Trend	0.2447
CB6.4	Spring2	Total Biomass	0.8679	1019502	340477837	6.59	No Trend	0.4456
CB6.4	Spring2	Biomass to Abundance Ratio	0.1102	1.61	30.89	114.46	No Trend	0.9351
CB6.4	Spring2	Margalef Diversity Index	0.0025	-0.03	2.19	-28.97	Degrading	0.4080
CB6.4	Spring2	Diatom Biomass	0.5716	-2038123	300360404	-14.93	No Trend	0.3694
CB6.4	Spring2	Dinoflagellate Biomass	0.0778	1838682	18040242	224.23	No Trend	0.8754
CB6.4	Spring2	Cyanobacteria Biomass	0.0002	24865	1960	27905.59	Degrading	0.8045
CB6.4	Spring2	Chlorophyte Biomass	0.6995	0	198861	0.00	No Trend	0.6072
CB6.4	Spring2	Picoplankton Biomass	0.3691	-394716	112912500	-6.29	No Trend	0.9489
CB6.4	Spring2	Cryptophyte Biomass	0.2721	-424569	15022589	-62.18	No Trend	0.1475
CB6.4	Spring2	Cyanobacteria Abundance	0.0106	5937	135891	96.12	No Trend	0.6059
CB7.3E	Spring2	Phytoplankton IBI	0.2144	0.04	2.48	31.20	No Trend	0.4344
CB7.3E	Spring2	Total Abundance	0.0635	-149452	12441046	-26.43	No Trend	0.9934
CB7.3E	Spring2	Total Biomass	0.7464	-1444529	459821656	-6.91	No Trend	0.9020
CB7.3E	Spring2	Biomass to Abundance Ratio	0.4852	0.68	36.88	40.63	No Trend	0.8576
CB7.3E	Spring2	Margalef Diversity Index	0.0136	-0.03	2.67	-23.53	No Trend	0.6532
CB7.3E	Spring2	Diatom Biomass	0.5288	-1597092	378839441	-9.27	No Trend	0.7157
CB7.3E	Spring2	Dinoflagellate Biomass	0.3319	966138	41468134	51.26	No Trend	0.8004
CB7.3E	Spring2	Cyanobacteria Biomass	0.0000	89821	77101	2562.95	Degrading	0.6444
CB7.3E	Spring2	Chlorophyte Biomass	0.2954	0	0	0.00	No Trend	0.1098
CB7.3E	Spring2	Picoplankton Biomass	0.0681	-1292438	144562500	-16.09	No Trend	0.7551
CB7.3E	Spring2	Cryptophyte Biomass	0.0711	-608431	22249035	-60.16	No Trend	0.8332
CB7.3E	Spring2	Cyanobacteria Abundance	0.0000	22694	10021	4982.43	Degrading	0.7659
CB7.4	Spring2	Phytoplankton IBI	0.6786	0.02	2.93	11.69	No Trend	0.4615
CB7.4	Spring2	Total Abundance	0.1134	-139215	13058493	-23.45	No Trend	0.5589
CB7.4	Spring2	Total Biomass	0.6954	2298340	434357529	11.64	No Trend	0.7450
CB7.4	Spring2	Biomass to Abundance Ratio	0.2541	0.88	22.98	84.13	No Trend	0.3833
CB7.4	Spring2	Margalef Diversity Index	0.0000	-0.05	2.77	-37.98	Degrading	0.8475
CB7.4	Spring2	Diatom Biomass	0.7464	-525915	394143297	-2.94	No Trend	0.7015
CB7.4	Spring2	Dinoflagellate Biomass	0.1577	1089484	19224767	124.68	No Trend	0.4797
CB7.4	Spring2	Cyanobacteria Biomass	0.0006	29811	3431	19117.91	Degrading	0.9968
CB7.4	Spring2	Chlorophyte Biomass	0.6903	0	123485	0.00	No Trend	0.7837
CB7.4	Spring2	Picoplankton Biomass	0.0356	-1906614	212250000	-16.17	No Trend	0.3554
CB7.4	Spring2	Cryptophyte Biomass	0.2612	-238179	11627377	-45.07	No Trend	0.9817
CB7.4	Spring2	Cyanobacteria Abundance	0.0005	10957	27287	883.38	Degrading	0.5765

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Summer1	Phytoplankton IBI	0.9296	0.00	1.00	0.00	No Trend	0.2457
TF5.5	Summer1	Total Abundance	0.5960	443089	82261083	11.85	No Trend	0.7977
TF5.5	Summer1	Total Biomass	0.0052	65690315	1063596726	135.88	Increasing	0.9021
TF5.5	Summer1	Biomass to Abundance Ratio	0.0003	1.08	13.09	181.03	Improving	0.8550
TF5.5	Summer1	Margalef Diversity Index	0.0780	-0.02	2.47	-18.59	No Trend	0.8688
TF5.5	Summer1	Diatom Biomass	0.5190	5551916	632365561	19.32	No Trend	0.9559
TF5.5	Summer1	Dinoflagellate Biomass	0.0455	79311	976164	178.74	No Trend	0.3990
TF5.5	Summer1	Cyanobacteria Biomass	0.0780	3805868	81724574	102.45	No Trend	0.9364
TF5.5	Summer1	Chlorophyte Biomass	0.0000	26849486	66393944	889.67	Improving	0.9438
TF5.5	Summer1	Picoplankton Biomass	0.0000	-18750143	463500000	-76.86	Improving	0.7786
TF5.5	Summer1	Cryptophyte Biomass	0.8074	24619	14801109	3.66	No Trend	0.6327
TF5.5	Summer1	Cyanobacteria Abundance	0.2576	777456	17965220	95.21	No Trend	0.9085
RET5.2	Summer1	Phytoplankton IBI	0.5240	0.00	2.50	0.00	No Trend	0.3546
RET5.2	Summer1	Total Abundance	0.0605	-854089	37800451	-49.71	No Trend	0.4671
RET5.2	Summer1	Total Biomass	0.1001	17630849	155241582	249.85	No Trend	0.7438
RET5.2	Summer1	Biomass to Abundance Ratio	0.0001	1.29	6.06	466.99	Improving	0.8786
RET5.2	Summer1	Margalef Diversity Index	0.0001	-0.04	1.89	-49.94	Degrading	0.5876
RET5.2	Summer1	Diatom Biomass	0.2385	8856274	110560291	176.23	No Trend	0.6145
RET5.2	Summer1	Dinoflagellate Biomass	0.8039	0	1804900	0.00	No Trend	0.7998
RET5.2	Summer1	Cyanobacteria Biomass	0.5903	288544	5664404	112.07	No Trend	0.7379
RET5.2	Summer1	Chlorophyte Biomass	0.1855	2155995	4827291	982.58	No Trend	0.4546
RET5.2	Summer1	Picoplankton Biomass	0.0625	-10828392	641250000	-32.08	No Trend	0.0761
RET5.2	Summer1	Cryptophyte Biomass	0.2054	572620	15374431	81.94	No Trend	0.9420
RET5.2	Summer1	Cyanobacteria Abundance	0.4940	-71578	1889711	-83.33	No Trend	0.4982
LE5.5	Summer1	Phytoplankton IBI	0.4092	-0.01	2.96	-4.73	No Trend	0.3889
LE5.5	Summer1	Total Abundance	0.0053	-292360	15458450	-43.50	Decreasing	0.7996
LE5.5	Summer1	Total Biomass	0.2274	5483968	256152977	49.24	No Trend	0.0262
LE5.5	Summer1	Biomass to Abundance Ratio	0.0341	1.02	17.06	138.20	No Trend	0.3852
LE5.5	Summer1	Margalef Diversity Index	0.0067	-0.03	2.57	-22.68	Degrading	0.5940
LE5.5	Summer1	Diatom Biomass	0.2379	3067275	174243574	40.49	No Trend	0.0319
LE5.5	Summer1	Dinoflagellate Biomass	0.6874	225455	34680219	14.95	No Trend	0.4223
LE5.5	Summer1	Cyanobacteria Biomass	0.0000	74151	275 619720.87		Degrading	0.7106
LE5.5	Summer1	Chlorophyte Biomass	0.9225	0	0		No Trend	0.7041
LE5.5	Summer1	Picoplankton Biomass	0.2675	-5756019	1196775000	-9.14	No Trend	0.3873
LE5.5	Summer1	Cryptophyte Biomass	0.0020	-856504	29947883	-65.78	Decreasing	0.7059
LE5.5	Summer1	Cyanobacteria Abundance	0.0000	14206	18272	1788.18	Degrading	0.9998
SBE5	Summer1	Phytoplankton IBI	0.0110	0.06	1.58	65.31	No Trend	0.2257
SBE5	Summer1	Total Abundance	0.6746	-47891	6176723	-14.73	No Trend	0.0069
SBE5	Summer1	Total Biomass	0.8887	-605342	104422556	-11.01	No Trend	0.3854
SBE5	Summer1	Biomass to Abundance Ratio	0.9442	0.03	18.58	2.97	No Trend	0.3686
SBE5	Summer1	Margalef Diversity Index	0.0461	-0.03	1.72	-29.08	No Trend	0.1365
SBE5	Summer1	Diatom Biomass	0.7796	-321611	58963285	-10.36	No Trend	0.3538
SBE5	Summer1	Dinoflagellate Biomass	0.7796	-18478	7084736	-4.96	No Trend	0.9114
SBE5	Summer1	Cyanobacteria Biomass	0.1512	25127	798259	59.81	No Trend	0.8864
SBE5	Summer1	Chlorophyte Biomass	0.2154	-2255	19243	-222.66	No Trend	0.3981
SBE5	Summer1	Picoplankton Biomass	0.0261	-7906386	591000000	-25.42	No Trend	0.9882
SBE5	Summer1	Cryptophyte Biomass	0.3186	-361423	15706009	-43.72	No Trend	0.7864
SBE5	Summer1	Cyanobacteria Abundance	0.7132	161	497792	0.62	No Trend	0.2337

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Summer1	Phytoplankton IBI	0.3132	0.00	3.40	0.00	No Trend	0.1137
TF4.2	Summer1	Total Abundance	0.4448	-92019	27510127	-7.02	No Trend	0.6469
TF4.2	Summer1	Total Biomass	0.0915	7020883	194028409	75.99	No Trend	0.7183
TF4.2	Summer1	Biomass to Abundance Ratio	0.0648	1.19	5.62	443.19	No Trend	0.5383
TF4.2	Summer1	Margalef Diversity Index	0.1114	-0.02	2.05	-16.24	No Trend	0.3070
TF4.2	Summer1	Diatom Biomass	0.4640	1470974	137680160	22.44	No Trend	0.8701
TF4.2	Summer1	Dinoflagellate Biomass	0.5344	5724	321641	37.37	No Trend	0.1041
TF4.2	Summer1	Cyanobacteria Biomass	0.5453	-30499	9704075	-6.60	No Trend	0.5212
TF4.2	Summer1	Chlorophyte Biomass	0.0018	1295692	7824131	347.76	Improving	0.8414
TF4.2	Summer1	Picoplankton Biomass	0.9079	-269631	102525000	-5.00	No Trend	0.7426
TF4.2	Summer1	Cryptophyte Biomass	0.8485	50229	7069250	14.92	No Trend	0.5036
TF4.2	Summer1	Cyanobacteria Abundance	0.2029	-25276	4531825	-11.71	No Trend	0.6068
RET4.3	Summer1	Phytoplankton IBI	0.7375	0.00	1.50	0.00	No Trend	0.1918
RET4.3	Summer1	Total Abundance	0.0044	-765867	34874683	-48.31	Decreasing	0.2718
RET4.3	Summer1	Total Biomass	0.3578	3879986	422575268	20.20	No Trend	0.7747
RET4.3	Summer1	Biomass to Abundance Ratio	0.0000	1.09	11.78	202.66	Improving	0.5918
RET4.3	Summer1	Margalef Diversity Index	0.1004	-0.01	1.81	-17.91	No Trend	0.2250
RET4.3	Summer1	Diatom Biomass	0.7978	-1102252	310061415	-7.82	No Trend	0.5258
RET4.3	Summer1	Dinoflagellate Biomass	0.8328	53905	33791860	3.51	No Trend	0.3395
RET4.3	Summer1	Cyanobacteria Biomass	0.1897	184088	4766544	84.97	No Trend	0.6669
RET4.3	Summer1	Chlorophyte Biomass	0.0005	334055	515615	1425.33	Improving	0.2786
RET4.3	Summer1	Picoplankton Biomass	0.1876	-6169493	446250000	-26.27	No Trend	0.1367
RET4.3	Summer1	Cryptophyte Biomass	0.2845	-395365	21624330	-40.22	No Trend	0.0828
RET4.3	Summer1	Cyanobacteria Abundance	0.2054	17461	437528	87.80	No Trend	0.3873
WE4.2	Summer1	Phytoplankton IBI	0.0048	0.05	2.00	54.21	Degrading	0.2421
WE4.2	Summer1	Total Abundance	0.0017	-276330	17331926	-36.67	Decreasing	0.9872
WE4.2	Summer1	Total Biomass	0.5197	4051109	258946390	35.98	No Trend	0.7485
WE4.2	Summer1	Biomass to Abundance Ratio	0.0005	1.82	19.45	215.49	Improving	0.5695
WE4.2	Summer1	Margalef Diversity Index	0.0341	-0.02	2.41	-23.05	No Trend	0.1471
WE4.2	Summer1	Diatom Biomass	0.1475	3475186	150623664	53.07	No Trend	0.2492
WE4.2	Summer1	Dinoflagellate Biomass	0.6484	-309355	71824007	-9.91	No Trend	0.8523
WE4.2	Summer1	Cyanobacteria Biomass	0.0000	46032	0		Degrading	0.8259
WE4.2	Summer1	Chlorophyte Biomass	0.6987	0	48105	0.00	No Trend	0.4501
WE4.2	Summer1	Picoplankton Biomass	0.0182	-17529509	1320525000	-25.22	No Trend	0.6288
WE4.2	Summer1	Cryptophyte Biomass	0.0005	-1084255	33790209	-73.80	Decreasing	0.0772
WE4.2	Summer1	Cyanobacteria Abundance	0.0000	8865	10157	2007.52	Degrading	0.7195

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Summer1	Phytoplankton IBI	0.0003	-0.07	3.00	-46.78	Improving	0.3470
TF3.3	Summer1	Total Abundance	0.0293	900804	29697028	66.73	No Trend	0.9957
TF3.3	Summer1	Total Biomass	0.0000	59902836	132927808	991.41	Increasing	0.8813
TF3.3	Summer1	Biomass to Abundance Ratio	0.0001	1.06	5.86	399.34	Improving	0.9783
TF3.3	Summer1	Margalef Diversity Index	0.8240	0.00	1.76	-4.38	No Trend	0.9005
TF3.3	Summer1	Diatom Biomass	0.0000	31552102	80032918	867.33	Improving	0.9971
TF3.3	Summer1	Dinoflagellate Biomass	0.0016	354395	1279856	609.18	Degrading	0.3621
TF3.3	Summer1	Cyanobacteria Biomass	0.0000	4316508	1100558	8628.64	Degrading	0.6225
TF3.3	Summer1	Chlorophyte Biomass	0.0000	6519733	3805262	3769.36	Improving	0.7180
TF3.3	Summer1	Picoplankton Biomass	0.6645	-2301217	454350000	-9.62	No Trend	0.9726
TF3.3	Summer1	Cryptophyte Biomass	0.5329	-253216	13432767	-41.47	No Trend	0.6106
TF3.3	Summer1	Cyanobacteria Abundance	0.0000	916122	73805	27308.01	Degrading	0.2868
RET3.1	Summer1	Phytoplankton IBI	0.5602	0.00	2.25	0.00	No Trend	0.6554
RET3.1	Summer1	Total Abundance	0.4147	349901	31344630	24.56	No Trend	0.6933
RET3.1	Summer1	Total Biomass	0.0007	24023656	270022676	195.73	Increasing	0.9507
RET3.1	Summer1	Biomass to Abundance Ratio	0.0271	0.63	10.57	131.20	No Trend	0.6710
RET3.1	Summer1	Margalef Diversity Index	0.2924	-0.01	1.94	-11.74	No Trend	0.8177
RET3.1	Summer1	Diatom Biomass	0.0144	10025085	160381316	137.52	No Trend	0.9662
RET3.1	Summer1	Dinoflagellate Biomass	0.4145	135095	26492820	11.22	No Trend	0.5263
RET3.1	Summer1	Cyanobacteria Biomass	0.0000	2776945	2771233	2204.54	Degrading	0.6723
RET3.1	Summer1	Chlorophyte Biomass	0.0654	591953	1492127	872.78	No Trend	0.7482
RET3.1	Summer1	Picoplankton Biomass	0.2476	-10312200	779250000	-25.14	No Trend	0.9978
RET3.1	Summer1	Cryptophyte Biomass	0.5933	-207190	26476907	-17.22	No Trend	0.3753
RET3.1	Summer1	Cyanobacteria Abundance	0.0001	492920	825527	1313.62	Degrading	0.9148
LE3.6	Summer1	Phytoplankton IBI	0.1562	0.02	2.50	17.60	No Trend	0.9968
LE3.6	Summer1	Total Abundance	0.0383	-169721	12204742	-31.98	No Trend	0.3439
LE3.6	Summer1	Total Biomass	0.7027	1539745	339531256	10.43	No Trend	0.7988
LE3.6	Summer1	Biomass to Abundance Ratio	0.0096	1.34	27.13	113.94	Improving	0.7794
LE3.6	Summer1	Margalef Diversity Index	0.0859	-0.02	2.59	-13.59	No Trend	0.6159
LE3.6	Summer1	Diatom Biomass	0.7231	-606178	183971311	-7.58	No Trend	0.7148
LE3.6	Summer1	Dinoflagellate Biomass	0.3540	1686191	76881111	50.44	No Trend	0.8384
LE3.6	Summer1	Cyanobacteria Biomass	0.0006	69849	74753	2149.12	Degrading	0.8809
LE3.6	Summer1	Chlorophyte Biomass	0.9442	0	279934	0.00	No Trend	0.8609
LE3.6	Summer1	Picoplankton Biomass	0.0014	-43860300	1593975000	-52.28	Improving	0.4060
LE3.6	Summer1	Cryptophyte Biomass	0.0028	-1319682	42924640	-70.71	Decreasing	0.7749
LE3.6	Summer1	Cyanobacteria Abundance	0.0002	23763	24884	2196.41	Degrading	0.9088

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Summer1	Phytoplankton IBI	0.9442	0.00	3.25	0.00	No Trend	0.3123
CB6.1	Summer1	Total Abundance	0.0409	-125340	10135085	-28.44	No Trend	0.6784
CB6.1	Summer1	Total Biomass	0.5487	-2718431	402760330	-15.52	No Trend	0.4332
CB6.1	Summer1	Biomass to Abundance Ratio	0.3400	0.64	35.47	41.48	No Trend	0.5858
CB6.1	Summer1	Margalef Diversity Index	0.1644	-0.02	2.61	-13.40	No Trend	0.5201
CB6.1	Summer1	Diatom Biomass	0.7436	-559660	105828973	-12.16	No Trend	0.8435
CB6.1	Summer1	Dinoflagellate Biomass	0.1269	-1869124	44523139	-96.56	No Trend	0.9709
CB6.1	Summer1	Cyanobacteria Biomass	0.0000	136394	102457	3061.82	Degrading	0.5874
CB6.1	Summer1	Chlorophyte Biomass	0.0404	481	116634	9.49	No Trend	0.4367
CB6.1	Summer1	Picoplankton Biomass	0.0002	-54048194	1345500000	-76.32	Improving	0.9893
CB6.1	Summer1	Cryptophyte Biomass	0.0002	-1361059	29762217	-105.18	Decreasing	0.9522
CB6.1	Summer1	Cyanobacteria Abundance	0.0000	30185	53279	1303.04	Degrading	0.7829
CB6.4	Summer1	Phytoplankton IBI	0.7936	0.00	2.74	0.00	No Trend	0.3591
CB6.4	Summer1	Total Abundance	0.0126	-223324	9393639	-54.68	No Trend	0.2400
CB6.4	Summer1	Total Biomass	0.9359	-196257	188191092	-2.40	No Trend	0.7780
CB6.4	Summer1	Biomass to Abundance Ratio	0.0032	1.59	21.25	171.90	Improving	0.7370
CB6.4	Summer1	Margalef Diversity Index	0.0389	-0.02	2.19	-24.20	No Trend	0.1122
CB6.4	Summer1	Diatom Biomass	0.4366	-1395125	76658078	-41.86	No Trend	0.6692
CB6.4	Summer1	Dinoflagellate Biomass	0.2172	1375323	46348029	68.25	No Trend	0.9464
CB6.4	Summer1	Cyanobacteria Biomass	0.0000	27162	0		Degrading	0.8519
CB6.4	Summer1	Chlorophyte Biomass	0.9890	0	131468	0.00	No Trend	0.8629
CB6.4	Summer1	Picoplankton Biomass	0.0080	-27911982	1327500000	-39.95	Improving	0.5565
CB6.4	Summer1	Cryptophyte Biomass	0.0100	-964288	30410538	-72.93	No Trend	0.1822
CB6.4	Summer1	Cyanobacteria Abundance	0.0000	12724	13194	2218.09	Degrading	0.8534
CB7.3E	Summer1	Phytoplankton IBI	0.1212	0.03	3.64	17.42	No Trend	0.5692
CB7.3E	Summer1	Total Abundance	0.0136	-142022	8872561	-36.82	No Trend	0.1197
CB7.3E	Summer1	Total Biomass	0.0766	7694807	240576176	73.57	No Trend	0.1565
CB7.3E	Summer1	Biomass to Abundance Ratio	0.0093	1.83	28.93	145.65	Improving	0.5256
CB7.3E	Summer1	Margalef Diversity Index	0.0117	-0.03	2.70	-23.46	No Trend	0.3076
CB7.3E	Summer1	Diatom Biomass	0.3760	1316931	162044071	18.69	No Trend	0.4409
CB7.3E	Summer1	Dinoflagellate Biomass	0.1075	1334840	32761938	93.71	No Trend	0.1352
CB7.3E	Summer1	Cyanobacteria Biomass	0.0001	45989	50745	2084.42	Degrading	0.9995
CB7.3E	Summer1	Chlorophyte Biomass	0.2688	0	96215	0.00	No Trend	0.4422
CB7.3E	Summer1	Picoplankton Biomass	0.1362	-10533557	895125000	-22.36	No Trend	0.5879
CB7.3E	Summer1	Cryptophyte Biomass	0.2599	-257860	18730045	-31.66	No Trend	0.0448
CB7.3E	Summer1	Cyanobacteria Abundance	0.0000	11020	6186	4097.73	Degrading	0.6709
CB7.4	Summer1	Phytoplankton IBI	0.0310	0.03	3.21	19.12	No Trend	0.2047
CB7.4	Summer1	Total Abundance	0.1075	-81011	6812397	-27.35	No Trend	0.4079
CB7.4	Summer1	Total Biomass	0.1401	5256634	154014624	78.50	No Trend	0.8765
CB7.4	Summer1	Biomass to Abundance Ratio	0.0049	1.78	27.85	147.22	Improving	0.9590
CB7.4	Summer1	Margalef Diversity Index	0.0000	-0.05	3.02	-37.81	Degrading	0.8559
CB7.4	Summer1	Diatom Biomass	0.1263	2894952	111820764	59.55	No Trend	0.4952
CB7.4	Summer1	Dinoflagellate Biomass	0.0364	1269474	16205834	180.17	No Trend	0.4319
CB7.4	Summer1	Cyanobacteria Biomass	0.0039	281	7908	81.86	Degrading	0.5334
CB7.4	Summer1	Chlorophyte Biomass	0.5668	0	133701	0.00	No Trend	0.0244
CB7.4	Summer1	Picoplankton Biomass	0.8558	-536621	733500000	-1.39	No Trend	0.0779
CB7.4	Summer1	Cryptophyte Biomass	0.0141	-319437	7623373	-96.38	No Trend	0.3742
CB7.4	Summer1	Cyanobacteria Abundance	0.0088	390	11376	78.87	Degrading	0.7826



Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Summer2	Phytoplankton IBI	0.9296	0.00	1.00	0.00	No Trend	0.2457
TF5.5	Summer2	Total Abundance	0.4847	948186	82261083	25.36	No Trend	0.6698
TF5.5	Summer2	Total Biomass	0.0305	75560609	1085953600	153.08	No Trend	0.8560
TF5.5	Summer2	Biomass to Abundance Ratio	0.0005	1.15	13.09	193.91	Improving	0.8914
TF5.5	Summer2	Margalef Diversity Index	0.0897	-0.02	2.43	-22.52	No Trend	0.7370
TF5.5	Summer2	Diatom Biomass	0.5944	6107528	632365561	21.25	No Trend	0.8527
TF5.5	Summer2	Dinoflagellate Biomass	0.0240	155493	409748	834.86	No Trend	0.3831
TF5.5	Summer2	Cyanobacteria Biomass	0.1178	5711601	81724574	153.75	No Trend	0.8135
TF5.5	Summer2	Chlorophyte Biomass	0.0003	25966524	50687353	1127.03	Improving	0.8948
TF5.5	Summer2	Picoplankton Biomass	0.0001	-16970714	370500000	-87.03	Improving	0.5834
TF5.5	Summer2	Cryptophyte Biomass	0.9336	5225	14801109	0.78	No Trend	0.4392
TF5.5	Summer2	Cyanobacteria Abundance	0.1832	1507520	17965220	184.61	No Trend	0.9642
RET5.2	Summer2	Phytoplankton IBI	0.5240	0.00	2.50	0.00	No Trend	0.3546
RET5.2	Summer2	Total Abundance	0.1440	-624011	30165340	-45.51	No Trend	0.2911
RET5.2	Summer2	Total Biomass	0.1852	14727487	155241582	208.71	No Trend	0.5509
RET5.2	Summer2	Biomass to Abundance Ratio	0.0006	1.18	6.21	417.03	Improving	0.7171
RET5.2	Summer2	Margalef Diversity Index	0.0031	-0.04	1.89	-45.34	Degrading	0.4918
RET5.2	Summer2	Diatom Biomass	0.5408	4788400	110560291	95.28	No Trend	0.5698
RET5.2	Summer2	Dinoflagellate Biomass	0.6576	4401	1804900	5.36	No Trend	0.6585
RET5.2	Summer2	Cyanobacteria Biomass	0.4968	405412	5664404	157.46	No Trend	0.5731
RET5.2	Summer2	Chlorophyte Biomass	0.2087	2185931	4827291	996.22	No Trend	0.2776
RET5.2	Summer2	Picoplankton Biomass	0.0171	-15042250	641250000	-44.57	No Trend	0.0904
RET5.2	Summer2	Cryptophyte Biomass	0.4051	346642	16333235	46.69	No Trend	0.9387
RET5.2	Summer2	Cyanobacteria Abundance	0.7340	-39681	1889711	-46.20	No Trend	0.3367
LE5.5	Summer2	Phytoplankton IBI	0.4092	-0.01	2.96	-4.73	No Trend	0.3889
LE5.5	Summer2	Total Abundance	0.0316	-234863	16068588	-33.62	No Trend	0.7075
LE5.5	Summer2	Total Biomass	0.4017	4254845	256152977	38.20	No Trend	0.0108
LE5.5	Summer2	Biomass to Abundance Ratio	0.1391	0.75	17.06	101.55	No Trend	0.2895
LE5.5	Summer2	Margalef Diversity Index	0.0650	-0.02	2.41	-17.45	No Trend	0.6760
LE5.5	Summer2	Diatom Biomass	0.2284	3371366	161207862	48.10	No Trend	0.0132
LE5.5	Summer2	Dinoflagellate Biomass	0.9392	63107	49279262	2.95	No Trend	0.2895
LE5.5	Summer2	Cyanobacteria Biomass	0.0000	77039	0		Degrading	0.5833
LE5.5	Summer2	Chlorophyte Biomass	0.9747	0	0		No Trend	0.4981
LE5.5	Summer2	Picoplankton Biomass	0.1849	-8561571	1196775000	-13.59	No Trend	0.2957
LE5.5	Summer2	Cryptophyte Biomass	0.0044	-755895	33267068	-52.26	Decreasing	0.5333
LE5.5	Summer2	Cyanobacteria Abundance	0.0000	14208	18272	1788.42	Degrading	0.9976
SBE5	Summer2	Phytoplankton IBI	0.0110	0.06	1.58	65.31	No Trend	0.2257
SBE5	Summer2	Total Abundance	0.0936	-184381	8887817	-39.42	No Trend	0.0720
SBE5	Summer2	Total Biomass	0.4796	-1849273	113168779	-31.05	No Trend	0.4343
SBE5	Summer2	Biomass to Abundance Ratio	0.3634	0.43	18.58	44.41	No Trend	0.8719
SBE5	Summer2	Margalef Diversity Index	0.1515	-0.02	1.72	-25.22	No Trend	0.0745
SBE5	Summer2	Diatom Biomass	0.3634	-1279669	68529493	-35.48	No Trend	0.4775
SBE5	Summer2	Dinoflagellate Biomass	0.9839	-2085	7084736	-0.56	No Trend	0.8453
SBE5	Summer2	Cyanobacteria Biomass	0.2753	52790	798259	125.65	No Trend	0.7593
SBE5	Summer2	Chlorophyte Biomass	0.2050	-13405	12689	-2007.22	No Trend	0.2451
SBE5	Summer2	Picoplankton Biomass	0.0707	-7666977	591000000	-24.65	No Trend	0.9649
SBE5	Summer2	Cryptophyte Biomass	0.2104	-506204	15706009	-61.24	No Trend	0.7959
SBE5	Summer2	Cyanobacteria Abundance	0.8242	-3461	671435	-9.79	No Trend	0.2125

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Summer2	Phytoplankton IBI	0.3132	0.00	3.40	0.00	No Trend	0.1137
TF4.2	Summer2	Total Abundance	0.8265	-13077	31355455	-0.88	No Trend	0.6563
TF4.2	Summer2	Total Biomass	0.1079	9009402	236783574	79.90	No Trend	0.5320
TF4.2	Summer2	Biomass to Abundance Ratio	0.1079	1.23	7.80	330.50	No Trend	0.3384
TF4.2	Summer2	Margalef Diversity Index	0.0795	-0.02	2.16	-24.04	No Trend	0.2255
TF4.2	Summer2	Diatom Biomass	0.4876	2442670	175370480	29.25	No Trend	0.7055
TF4.2	Summer2	Dinoflagellate Biomass	0.6476	1958	638659	6.44	No Trend	0.0468
TF4.2	Summer2	Cyanobacteria Biomass	0.2424	-110898	15262059	-15.26	No Trend	0.7815
TF4.2	Summer2	Chlorophyte Biomass	0.0130	1791029	12854471	292.60	No Trend	0.7293
TF4.2	Summer2	Picoplankton Biomass	0.8274	1370302	102525000	25.39	No Trend	0.6829
TF4.2	Summer2	Cryptophyte Biomass	0.7285	133288	8408878	33.29	No Trend	0.3302
TF4.2	Summer2	Cyanobacteria Abundance	0.1002	-37756	5640630	-14.06	No Trend	0.7417
RET4.3	Summer2	Phytoplankton IBI	0.7375	0.00	1.50	0.00	No Trend	0.1918
RET4.3	Summer2	Total Abundance	0.0535	-609649	43659938	-30.72	No Trend	0.2631
RET4.3	Summer2	Total Biomass	0.6636	3320945	423903389	17.24	No Trend	0.7390
RET4.3	Summer2	Biomass to Abundance Ratio	0.0005	1.00	11.03	199.36	Improving	0.5498
RET4.3	Summer2	Margalef Diversity Index	0.1057	-0.02	1.81	-24.50	No Trend	0.1250
RET4.3	Summer2	Diatom Biomass	0.7149	1526434	310061415	10.83	No Trend	0.6628
RET4.3	Summer2	Dinoflagellate Biomass	0.9445	-29822	31292685	-2.10	No Trend	0.2140
RET4.3	Summer2	Cyanobacteria Biomass	0.3565	172486	7078431	53.61	No Trend	0.4936
RET4.3	Summer2	Chlorophyte Biomass	0.0056	259868	601757	950.07	Improving	0.1645
RET4.3	Summer2	Picoplankton Biomass	0.4877	-3388050	364500000	-17.66	No Trend	0.0978
RET4.3	Summer2	Cryptophyte Biomass	0.8482	-87808	20236588	-9.55	No Trend	0.1061
RET4.3	Summer2	Cyanobacteria Abundance	0.8076	4666	784050	13.09	No Trend	0.9297
WE4.2	Summer2	Phytoplankton IBI	0.0048	0.05	2.00	54.21	Degrading	0.2421
WE4.2	Summer2	Total Abundance	0.0076	-251278	15230976	-37.95	Decreasing	0.9396
WE4.2	Summer2	Total Biomass	0.2927	6882194	249571088	63.42	No Trend	0.9326
WE4.2	Summer2	Biomass to Abundance Ratio	0.0003	2.05	19.45	242.30	Improving	0.9189
WE4.2	Summer2	Margalef Diversity Index	0.2404	-0.02	2.46	-16.53	No Trend	0.1801
WE4.2	Summer2	Diatom Biomass	0.0270	6360178	126805394	115.36	No Trend	0.9608
WE4.2	Summer2	Dinoflagellate Biomass	0.8668	-69912	71824007	-2.24	No Trend	0.7558
WE4.2	Summer2	Cyanobacteria Biomass	0.0001	44366	0		Degrading	0.6583
WE4.2	Summer2	Chlorophyte Biomass	0.8007	0	48105	0.00	No Trend	0.5642
WE4.2	Summer2	Picoplankton Biomass	0.0364	-18406388	1320525000	-26.48	No Trend	0.4223
WE4.2	Summer2	Cryptophyte Biomass	0.0000	-1344905	35612893	-86.86	Decreasing	0.4823
WE4.2	Summer2	Cyanobacteria Abundance	0.0003	8519	53238	368.04	Degrading	0.5681

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Summer2	Phytoplankton IBI	0.0003	-0.07	3.00	-46.78	Improving	0.3470
TF3.3	Summer2	Total Abundance	0.0739	974058	29697028	72.16	No Trend	0.9883
TF3.3	Summer2	Total Biomass	0.0000	53003472	186799990	624.24	Increasing	0.7367
TF3.3	Summer2	Biomass to Abundance Ratio	0.0006	1.06	8.32	280.79	Improving	0.9101
TF3.3	Summer2	Margalef Diversity Index	0.6215	-0.01	1.98	-8.35	No Trend	0.8986
TF3.3	Summer2	Diatom Biomass	0.0000	27471132	127095384	475.52	Improving	0.9772
TF3.3	Summer2	Dinoflagellate Biomass	0.0008	478160	1613256	652.07	Degrading	0.4384
TF3.3	Summer2	Cyanobacteria Biomass	0.0001	4754847	9429938	1109.30	Degrading	0.7627
TF3.3	Summer2	Chlorophyte Biomass	0.0004	4917600	3805262	2843.10	Improving	0.5541
TF3.3	Summer2	Picoplankton Biomass	0.7532	-2059692	364500000	-10.74	No Trend	0.8982
TF3.3	Summer2	Cryptophyte Biomass	0.6827	-226496	13432767	-37.10	No Trend	0.4160
TF3.3	Summer2	Cyanobacteria Abundance	0.0045	801681	736741	2393.92	Degrading	0.5146
RET3.1	Summer2	Phytoplankton IBI	0.5602	0.00	2.25	0.00	No Trend	0.6554
RET3.1	Summer2	Total Abundance	0.2268	469124	31344630	32.93	No Trend	0.8192
RET3.1	Summer2	Total Biomass	0.0021	25109713	270022676	204.58	Increasing	0.8750
RET3.1	Summer2	Biomass to Abundance Ratio	0.0795	0.60	8.98	147.55	No Trend	0.4863
RET3.1	Summer2	Margalef Diversity Index	0.2991	-0.01	1.94	-13.20	No Trend	0.6464
RET3.1	Summer2	Diatom Biomass	0.0464	9866164	160381316	135.34	No Trend	0.9046
RET3.1	Summer2	Dinoflagellate Biomass	0.1842	472467	21530244	48.28	No Trend	0.7280
RET3.1	Summer2	Cyanobacteria Biomass	0.0000	2947012	5956780	1088.41	Degrading	0.5236
RET3.1	Summer2	Chlorophyte Biomass	0.1946	370514	1492127	546.29	No Trend	0.6478
RET3.1	Summer2	Picoplankton Biomass	0.2953	-9171242	515250000	-33.82	No Trend	0.9845
RET3.1	Summer2	Cryptophyte Biomass	0.7463	251241	26476907	20.88	No Trend	0.7746
RET3.1	Summer2	Cyanobacteria Abundance	0.0002	540569	1855655	640.88	Degrading	0.8977
LE3.6	Summer2	Phytoplankton IBI	0.1562	0.02	2.50	17.60	No Trend	0.9968
LE3.6	Summer2	Total Abundance	0.1755	-113364	11450810	-22.77	No Trend	0.2807
LE3.6	Summer2	Total Biomass	0.4272	4063970	279249624	33.47	No Trend	0.9560
LE3.6	Summer2	Biomass to Abundance Ratio	0.0078	1.63	24.79	151.42	Improving	0.8512
LE3.6	Summer2	Margalef Diversity Index	0.1755	-0.01	2.59	-12.40	No Trend	0.4230
LE3.6	Summer2	Diatom Biomass	0.9627	82949	183971311	1.04	No Trend	0.6629
LE3.6	Summer2	Dinoflagellate Biomass	0.2690	1896994	76881111	56.75	No Trend	0.7965
LE3.6	Summer2	Cyanobacteria Biomass	0.0069	60759	11843	11799.60	Degrading	0.8254
LE3.6	Summer2	Chlorophyte Biomass	0.6651	0	93399	0.00	No Trend	0.9223
LE3.6	Summer2	Picoplankton Biomass	0.0069	-54372294	2134725000	-48.39	Improving	0.2365
LE3.6	Summer2	Cryptophyte Biomass	0.0230	-984274	37166538	-60.91	No Trend	0.7099
LE3.6	Summer2	Cyanobacteria Abundance	0.0012	27363	8327	7558.31	Degrading	0.7633

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Summer2	Phytoplankton IBI	0.9442	0.00	3.25	0.00	No Trend	0.3123
CB6.1	Summer2	Total Abundance	0.0734	-119299	9405268	-29.17	No Trend	0.4692
CB6.1	Summer2	Total Biomass	0.8640	786748	280186370	6.46	No Trend	0.7169
CB6.1	Summer2	Biomass to Abundance Ratio	0.2306	0.94	32.15	67.43	No Trend	0.5180
CB6.1	Summer2	Margalef Diversity Index	0.5646	-0.01	2.61	-5.10	No Trend	0.7616
CB6.1	Summer2	Diatom Biomass	0.9876	-28237	70559434	-0.92	No Trend	0.7725
CB6.1	Summer2	Dinoflagellate Biomass	0.1857	-2015913	44523139	-104.14	No Trend	0.8869
CB6.1	Summer2	Cyanobacteria Biomass	0.0000	131913	102457	2961.24	Degrading	0.4110
CB6.1	Summer2	Chlorophyte Biomass	0.1433	826	279934	6.79	No Trend	0.3149
CB6.1	Summer2	Picoplankton Biomass	0.0018	-53995288	1203000000	-85.28	Improving	0.9876
CB6.1	Summer2	Cryptophyte Biomass	0.0009	-1358295	27675817	-112.88	Decreasing	0.8759
CB6.1	Summer2	Cyanobacteria Abundance	0.0000	24591	65711	860.72	Degrading	0.7710
CB6.4	Summer2	Phytoplankton IBI	0.7936	0.00	2.74	0.00	No Trend	0.3591
CB6.4	Summer2	Total Abundance	0.1391	-139044	8194574	-39.03	No Trend	0.3413
CB6.4	Summer2	Total Biomass	0.6806	1325635	188191092	16.20	No Trend	0.9644
CB6.4	Summer2	Biomass to Abundance Ratio	0.0070	1.59	21.25	172.36	Improving	0.5550
CB6.4	Summer2	Margalef Diversity Index	0.3683	-0.01	2.31	-11.11	No Trend	0.2879
CB6.4	Summer2	Diatom Biomass	0.9150	-72261	76032749	-2.19	No Trend	0.9344
CB6.4	Summer2	Dinoflagellate Biomass	0.3367	1598561	53311866	68.97	No Trend	0.8530
CB6.4	Summer2	Cyanobacteria Biomass	0.0000	41137	0		Degrading	0.8452
CB6.4	Summer2	Chlorophyte Biomass	0.7890	0	82373	0.00	No Trend	0.8131
CB6.4	Summer2	Picoplankton Biomass	0.0075	-28679817	905400000	-60.19	Improving	0.4777
CB6.4	Summer2	Cryptophyte Biomass	0.0181	-886283	33348149	-61.13	No Trend	0.0914
CB6.4	Summer2	Cyanobacteria Abundance	0.0000	15427	13194	2689.30	Degrading	0.7830
CB7.3E	Summer2	Phytoplankton IBI	0.1212	0.03	3.64	17.42	No Trend	0.5692
CB7.3E	Summer2	Total Abundance	0.0231	-153885	8834359	-40.06	No Trend	0.0561
CB7.3E	Summer2	Total Biomass	0.0292	10531149	233694886	103.65	No Trend	0.1852
CB7.3E	Summer2	Biomass to Abundance Ratio	0.0036	2.16	28.93	171.60	Improving	0.8522
CB7.3E	Summer2	Margalef Diversity Index	0.0566	-0.02	2.62	-19.67	No Trend	0.1959
CB7.3E	Summer2	Diatom Biomass	0.2790	2047279	116311630	40.48	No Trend	0.3236
CB7.3E	Summer2	Dinoflagellate Biomass	0.0696	2400582	25375921	217.58	No Trend	0.0917
CB7.3E	Summer2	Cyanobacteria Biomass	0.0010	41337	50745	1873.56	Degrading	0.9926
CB7.3E	Summer2	Chlorophyte Biomass	0.8004	0	96215	0.00	No Trend	0.7577
CB7.3E	Summer2	Picoplankton Biomass	0.3958	-6714884	895125000	-14.25	No Trend	0.5829
CB7.3E	Summer2	Cryptophyte Biomass	0.4017	-226413	12981421	-40.12	No Trend	0.0185
CB7.3E	Summer2	Cyanobacteria Abundance	0.0010	6630	21902	696.30	Degrading	0.9357
CB7.4	Summer2	Phytoplankton IBI	0.0310	0.03	3.21	19.12	No Trend	0.2047
CB7.4	Summer2	Total Abundance	0.3216	-54298	6180958	-20.20	No Trend	0.3365
CB7.4	Summer2	Total Biomass	0.0965	6929222	154014624	103.48	No Trend	0.9825
CB7.4	Summer2	Biomass to Abundance Ratio	0.0231	1.72	29.71	132.90	No Trend	0.9137
CB7.4	Summer2	Margalef Diversity Index	0.0001	-0.05	3.29	-32.49	Degrading	0.6874
CB7.4	Summer2	Diatom Biomass	0.0528	4531820	111820764	93.21	No Trend	0.6913
CB7.4	Summer2	Dinoflagellate Biomass	0.0141	1773830	15985856	255.21	No Trend	0.6287
CB7.4	Summer2	Cyanobacteria Biomass	0.0249	327	7908	95.02	No Trend	0.3942
CB7.4	Summer2	Chlorophyte Biomass	0.6776	0	117725	0.00	No Trend	0.0091
CB7.4	Summer2	Picoplankton Biomass	0.3513	4342800	424575000	19.43	No Trend	0.4326
CB7.4	Summer2	Cryptophyte Biomass	0.0147	-345538	7623373	-104.25	No Trend	0.2617
CB7.4	Summer2	Cyanobacteria Abundance	0.0343	90	4107	50.17	No Trend	0.6181

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Fall	Total Abundance	0.8164	-210063	78266327	-5.90	No Trend	0.3428
TF5.5	Fall	Total Biomass	0.0366	53066281	696747591	167.56	No Trend	0.1610
TF5.5	Fall	Biomass to Abundance Ratio	0.0000	2.38	11.84	442.33	Improving	0.8033
TF5.5	Fall	Margalef Diversity Index	0.3641	0.02	2.19	19.58	No Trend	0.6506
TF5.5	Fall	Diatom Biomass	0.1979	18903603	475618526	87.44	No Trend	0.1423
TF5.5	Fall	Dinoflagellate Biomass	0.7077	0	118698	0.00	No Trend	0.2611
TF5.5	Fall	Cyanobacteria Biomass	0.0406	1660115	11832751	308.66	No Trend	0.4069
TF5.5	Fall	Chlorophyte Biomass	0.0000	24180599	8579541	6200.49	Improving	0.5642
TF5.5	Fall	Picoplankton Biomass	0.9783	-4143	31725000	-0.25	No Trend	0.7877
TF5.5	Fall	Cryptophyte Biomass	0.2287	444770	4246997	230.40	No Trend	0.4992
TF5.5	Fall	Cyanobacteria Abundance	0.1453	574078	5070436	249.09	No Trend	0.1428
RET5.2	Fall	Total Abundance	0.0002	-1025008	37304799	-60.45	Decreasing	0.4828
RET5.2	Fall	Total Biomass	0.2457	-6416411	195187220	-72.32	No Trend	0.6914
RET5.2	Fall	Biomass to Abundance Ratio	0.0029	1.30	5.08	562.94	Improving	0.8392
RET5.2	Fall	Margalef Diversity Index	0.0083	-0.04	1.94	-40.92	Degrading	0.6534
RET5.2	Fall	Diatom Biomass	0.4348	-3196232	142794515	-49.24	No Trend	0.8145
RET5.2	Fall	Dinoflagellate Biomass	0.4624	0	107791	0.00	No Trend	0.1087
RET5.2	Fall	Cyanobacteria Biomass	0.1041	-517054	9533894	-119.31	No Trend	0.5226
RET5.2	Fall	Chlorophyte Biomass	0.5404	144437	5587342	56.87	No Trend	0.7801
RET5.2	Fall	Picoplankton Biomass	0.0000	-7320343	82725000	-168.13	Improving	0.8396
RET5.2	Fall	Cryptophyte Biomass	0.8992	-44081	12992675	-7.46	No Trend	0.8088
RET5.2	Fall	Cyanobacteria Abundance	0.0603	-301840	3976070	-167.01	No Trend	0.2126
LE5.5	Fall	Total Abundance	0.2205	-82065	6677374	-28.27	No Trend	0.7345
LE5.5	Fall	Total Biomass	0.2454	4813756	63808857	173.51	No Trend	0.0247
LE5.5	Fall	Biomass to Abundance Ratio	0.2863	0.71	9.51	172.48	No Trend	0.0062
LE5.5	Fall	Margalef Diversity Index	0.4938	-0.01	2.64	-6.55	No Trend	0.0367
LE5.5	Fall	Diatom Biomass	0.0125	5877772	21357641	632.98	No Trend	0.1789
LE5.5	Fall	Dinoflagellate Biomass	0.7624	175498	10128515	39.85	No Trend	0.5742
LE5.5	Fall	Cyanobacteria Biomass	0.0613	506	0		No Trend	0.7776
LE5.5	Fall	Chlorophyte Biomass	0.5460	0	207	0.00	No Trend	0.6469
LE5.5	Fall	Picoplankton Biomass	0.5950	297166	28500000	19.81	No Trend	0.7806
LE5.5	Fall	Cryptophyte Biomass	0.4350	-172680	19251722	-20.63	No Trend	0.8743
LE5.5	Fall	Cyanobacteria Abundance	0.1051	43	0		No Trend	0.8800
SBE5	Fall	Total Abundance	0.0860	49061	2052161	45.42	No Trend	0.5387
SBE5	Fall	Total Biomass	0.4796	1144919	42583769	51.08	No Trend	0.1451
SBE5	Fall	Biomass to Abundance Ratio	0.8876	0.10	20.04	9.19	No Trend	0.0567
SBE5	Fall	Margalef Diversity Index	0.2032	-0.01	2.13	-13.23	No Trend	0.7418
SBE5	Fall	Diatom Biomass	0.2179	1166855	19567494	113.30	No Trend	0.1050
SBE5	Fall	Dinoflagellate Biomass	0.4308	72269	2799155	49.05	No Trend	0.1708
SBE5	Fall	Cyanobacteria Biomass	0.0190	17691	12005	2799.87	No Trend	0.2019
SBE5	Fall	Chlorophyte Biomass	0.3393	1702	101126	31.97	No Trend	0.5488
SBE5	Fall	Picoplankton Biomass	0.0322	325188	21525000	28.70	No Trend	0.4495
SBE5	Fall	Cryptophyte Biomass	0.6714	122434	9542534	24.38	No Trend	0.9429
SBE5	Fall	Cyanobacteria Abundance	0.1475	512	3523	276.13	No Trend	0.1624

Appendix E. Continued.

						Percent		Homogeneity
Station	Season	Parameter	P value	Slope	Baseline	Change	Direction	test P value
TF4.2	Fall	Total Abundance	0.5832	-61409	44791776	-2.88	No Trend	0.8116
TF4.2	Fall	Total Biomass	0.4105	1629929	95063044	36.01	No Trend	0.7092
TF4.2	Fall	Biomass to Abundance Ratio	0.1434	0.89	2.49	749.37	No Trend	0.7517
TF4.2	Fall	Margalef Diversity Index	0.1313	0.02	1.71	19.19	No Trend	0.7804
TF4.2	Fall	Diatom Biomass	0.8192	487916	63704429	16.08	No Trend	0.7529
TF4.2	Fall	Dinoflagellate Biomass	0.9612	0	9161	0.00	No Trend	0.8030
TF4.2	Fall	Cyanobacteria Biomass	0.0370	70847	436924	340.51	No Trend	0.3239
TF4.2	Fall	Chlorophyte Biomass	0.0092	161318	1031899	328.30	Improving	0.5861
TF4.2	Fall	Picoplankton Biomass	0.6285	-174400	24375000	-13.59	No Trend	0.7366
TF4.2	Fall	Cryptophyte Biomass	0.1200	492941	9591239	107.93	No Trend	0.4900
TF4.2	Fall	Cyanobacteria Abundance	0.0819	11816	130496	190.14	No Trend	0.2794
RET4.3	Fall	Total Abundance	0.6576	-128106	22583875	-12.48	No Trend	0.7831
RET4.3	Fall	Total Biomass	0.0152	14000442	101884099	302.31	No Trend	0.3854
RET4.3	Fall	Biomass to Abundance Ratio	0.0025	1.53	5.00	673.04	Improving	0.0355
RET4.3	Fall	Margalef Diversity Index	0.5404	0.00	1.34	7.78	No Trend	0.4053
RET4.3	Fall	Diatom Biomass	0.0044	11337929	40532697	615.39	Improving	0.1611
RET4.3	Fall	Dinoflagellate Biomass	0.4726	178839	3004831	130.94	No Trend	0.4329
RET4.3	Fall	Cyanobacteria Biomass	0.0728	364246	9166313	87.42	No Trend	0.9253
RET4.3	Fall	Chlorophyte Biomass	0.0002	398456	1404	624289.72	Improving	0.2745
RET4.3	Fall	Picoplankton Biomass	0.3996	-760000	38175000	-37.83	No Trend	0.9005
RET4.3	Fall	Cryptophyte Biomass	0.6273	481633	25920512	40.88	No Trend	0.0145
RET4.3	Fall	Cyanobacteria Abundance	0.0406	75945	625391	267.16	No Trend	0.9887
WE4.2	Fall	Total Abundance	0.0371	-171672	9714393	-40.65	No Trend	0.6610
WE4.2	Fall	Total Biomass	0.6218	-1605093	152236580	-24.25	No Trend	0.1185
WE4.2	Fall	Biomass to Abundance Ratio	0.5349	-0.67	13.10	-117.09	No Trend	0.7784
WE4.2	Fall	Margalef Diversity Index	0.0026	-0.04	2.41	-37.67	Degrading	0.5926
WE4.2	Fall	Diatom Biomass	0.1476	4001041	23025023	399.67	No Trend	0.7802
WE4.2	Fall	Dinoflagellate Biomass	0.6445	350616	28951005	27.85	No Trend	0.0644
WE4.2	Fall	Cyanobacteria Biomass	0.0094	1043	980	2447.93	Degrading	0.0982
WE4.2	Fall	Chlorophyte Biomass	0.0611	0	23327	0.00	No Trend	0.2025
WE4.2	Fall	Picoplankton Biomass	0.2336	682167	56850000	22.80	No Trend	0.7413
WE4.2	Fall	Cryptophyte Biomass	0.0343	-700434	41035887	-39.26	No Trend	0.8811
WE4.2	Fall	Cyanobacteria Abundance	0.0200	64	2106	69.91	No Trend	0.5392

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Fall	Total Abundance	0.3641	267014	26639460	22.05	No Trend	1.0000
TF3.3	Fall	Total Biomass	0.0004	22492286	76850589	643.89	Increasing	0.8406
TF3.3	Fall	Biomass to Abundance Ratio	0.0135	1.10	2.73	888.43	No Trend	0.7543
TF3.3	Fall	Margalef Diversity Index	0.6273	0.01	1.46	12.60	No Trend	0.5490
TF3.3	Fall	Diatom Biomass	0.0011	15563125	28753789	1190.76	Improving	0.3452
TF3.3	Fall	Dinoflagellate Biomass	0.7663	0	2376747	0.00	No Trend	0.7461
TF3.3	Fall	Cyanobacteria Biomass	0.0022	1047091	935468	2462.51	Degrading	0.4604
TF3.3	Fall	Chlorophyte Biomass	0.0017	2312874	812136	6265.36	Improving	0.8251
TF3.3	Fall	Picoplankton Biomass	0.1350	4388833	27900000	298.88	No Trend	0.2579
TF3.3	Fall	Cryptophyte Biomass	0.1700	534341	22154339	53.06	No Trend	0.5958
TF3.3	Fall	Cyanobacteria Abundance	0.0009	295080	244189	2658.50	Degrading	0.8181
RET3.1	Fall	Total Abundance	0.3661	-305400	37430370	-17.95	No Trend	0.3917
RET3.1	Fall	Total Biomass	0.0707	12380814	145443498	187.27	No Trend	0.4801
RET3.1	Fall	Biomass to Abundance Ratio	0.0201	1.03	3.85	585.71	No Trend	0.1296
RET3.1	Fall	Margalef Diversity Index	0.9314	0.00	1.74	-1.30	No Trend	0.7394
RET3.1	Fall	Diatom Biomass	0.0477	6811936	60271525	248.65	No Trend	0.4629
RET3.1	Fall	Dinoflagellate Biomass	0.2629	-218773	18860242	-25.52	No Trend	0.9095
RET3.1	Fall	Cyanobacteria Biomass	0.0030	773120	898235	1893.56	Degrading	0.7423
RET3.1	Fall	Chlorophyte Biomass	0.0387	276437	1494513	406.93	No Trend	0.8805
RET3.1	Fall	Picoplankton Biomass	0.4209	1810909	66675000	51.60	No Trend	0.8220
RET3.1	Fall	Cryptophyte Biomass	0.7306	317009	23884908	29.20	No Trend	0.4593
RET3.1	Fall	Cyanobacteria Abundance	0.0007	139781	121128	2538.79	Degrading	0.9718
LE3.6	Fall	Total Abundance	0.1723	-116760	6079564	-44.17	No Trend	0.8955
LE3.6	Fall	Total Biomass	0.7949	-1843005	121505873	-34.89	No Trend	0.1547
LE3.6	Fall	Biomass to Abundance Ratio	0.3138	0.74	17.84	95.36	No Trend	0.1193
LE3.6	Fall	Margalef Diversity Index	0.3982	-0.01	2.10	-11.01	No Trend	0.1653
LE3.6	Fall	Diatom Biomass	0.1937	2909580	35156149	190.35	No Trend	0.4222
LE3.6	Fall	Dinoflagellate Biomass	0.7452	-270185	14939102	-41.60	No Trend	0.6223
LE3.6	Fall	Cyanobacteria Biomass	0.0000	27631	0		Degrading	0.8367
LE3.6	Fall	Chlorophyte Biomass	0.0803	0	0		No Trend	0.2277
LE3.6	Fall	Picoplankton Biomass	0.0404	-2795688	106500000	-49.88	No Trend	0.5829
LE3.6	Fall	Cryptophyte Biomass	0.0390	-433178	27771142	-35.88	No Trend	0.5970
LE3.6	Fall	Cyanobacteria Abundance	0.0000	4651	0		Degrading	0.4075

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Fall	Total Abundance	0.1193	-143811	9366602	-35.31	No Trend	0.7082
CB6.1	Fall	Total Biomass	0.8684	-724695	151039459	-11.04	No Trend	0.0003
CB6.1	Fall	Biomass to Abundance Ratio	0.8945	0.08	16.85	10.24	No Trend	0.0953
CB6.1	Fall	Margalef Diversity Index	0.0432	-0.03	2.36	-26.32	No Trend	0.6984
CB6.1	Fall	Diatom Biomass	0.3042	2028795	92293070	50.56	No Trend	0.0063
CB6.1	Fall	Dinoflagellate Biomass	0.3709	-1601026	40422247	-91.10	No Trend	0.0627
CB6.1	Fall	Cyanobacteria Biomass	0.0001	8615	0		Degrading	0.4717
CB6.1	Fall	Chlorophyte Biomass	0.5194	0	0		No Trend	0.2249
CB6.1	Fall	Picoplankton Biomass	0.1532	-1477385	72375000	-38.78	No Trend	0.2265
CB6.1	Fall	Cryptophyte Biomass	0.0253	-663616	28811460	-52.98	No Trend	0.5517
CB6.1	Fall	Cyanobacteria Abundance	0.0005	2922	6771	992.66	Degrading	0.8110
CB6.4	Fall	Total Abundance	0.0437	-121339	7636596	-36.55	No Trend	0.7279
CB6.4	Fall	Total Biomass	0.7993	1167989	139575508	19.25	No Trend	0.2080
CB6.4	Fall	Biomass to Abundance Ratio	0.2288	0.80	15.07	122.37	No Trend	0.4361
CB6.4	Fall	Margalef Diversity Index	0.0022	-0.04	2.23	-39.22	Degrading	0.4902
CB6.4	Fall	Diatom Biomass	0.3339	1681090	49376385	78.31	No Trend	0.3879
CB6.4	Fall	Dinoflagellate Biomass	0.3690	837191	31861194	60.44	No Trend	0.4581
CB6.4	Fall	Cyanobacteria Biomass	0.0006	1280	0		Degrading	0.9140
CB6.4	Fall	Chlorophyte Biomass	0.9852	0	50763	0.00	No Trend	0.2762
CB6.4	Fall	Picoplankton Biomass	0.0285	-1368500	64050000	-40.60	No Trend	0.2283
CB6.4	Fall	Cryptophyte Biomass	0.0808	-474089	30242732	-36.06	No Trend	0.8532
CB6.4	Fall	Cyanobacteria Abundance	0.0002	836	0		Degrading	0.9972
CB7.3E	Fall	Total Abundance	0.0240	-177446	8569585	-47.63	No Trend	0.6465
CB7.3E	Fall	Total Biomass	0.8821	-655896	160180869	-9.42	No Trend	0.1550
CB7.3E	Fall	Biomass to Abundance Ratio	0.2556	1.03	11.71	202.47	No Trend	0.2372
CB7.3E	Fall	Margalef Diversity Index	0.4585	-0.01	2.34	-7.34	No Trend	0.4243
CB7.3E	Fall	Diatom Biomass	0.1176	4319191	75558488	131.48	No Trend	0.8983
CB7.3E	Fall	Dinoflagellate Biomass	0.3149	-728466	23549850	-71.15	No Trend	0.2093
CB7.3E	Fall	Cyanobacteria Biomass	0.0007	0	0		No Change	0.6953
CB7.3E	Fall	Chlorophyte Biomass	0.4066	0	0		No Trend	0.3138
CB7.3E	Fall	Picoplankton Biomass	0.4387	551250	33750000	31.03	No Trend	0.7867
CB7.3E	Fall	Cryptophyte Biomass	0.5642	-169038	16372617	-23.75	No Trend	0.1547
CB7.3E	Fall	Cyanobacteria Abundance	0.0015	0	6283	0.00	No Change	0.4989
CB7.4	Fall	Total Abundance	0.0383	-147021	6067914	-55.73	No Trend	0.5026
CB7.4	Fall	Total Biomass	0.2711	3107443	114524858	62.41	No Trend	0.4134
CB7.4	Fall	Biomass to Abundance Ratio	0.0354	2.33	13.92	384.73	No Trend	0.4042
CB7.4	Fall	Margalef Diversity Index	0.0116	-0.04	3.18	-25.56	No Trend	0.2823
CB7.4	Fall	Diatom Biomass	0.0483	3691264	64732251	131.15	No Trend	0.8914
CB7.4	Fall	Dinoflagellate Biomass	0.6739	187251	15852750	27.17	No Trend	0.1478
CB7.4	Fall	Cyanobacteria Biomass	0.0023	0	0		No Change	0.1803
CB7.4	Fall	Chlorophyte Biomass	0.0918	100	95404	2.42	No Trend	0.0933
CB7.4	Fall	Picoplankton Biomass	0.5154	-167489	64050000	-4.97	No Trend	0.3387
CB7.4	Fall	Cryptophyte Biomass	0.2310	-216062	14856824	-33.45	No Trend	0.5387
CB7.4	Fall	Cyanobacteria Abundance	0.0418	0	0		No Trend	0.0761



Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF5.5	Winter	Total Abundance	0.8337	21366	33849684	0.95	No Trend	0.7795
TF5.5	Winter	Total Biomass	0.0051	31123523	150423917	310.36	Increasing	0.9442
TF5.5	Winter	Biomass to Abundance Ratio	0.0003	4.47	4.53	1478.85	Improving	0.8337
TF5.5	Winter	Margalef Diversity Index	0.7264	-0.01	2.01	-4.85	No Trend	0.6745
TF5.5	Winter	Diatom Biomass	0.0688	17612570	125459780	210.58	No Trend	0.6242
TF5.5	Winter	Dinoflagellate Biomass	0.7447	0	1893868	0.00	No Trend	0.2971
TF5.5	Winter	Cyanobacteria Biomass	0.0004	732492	1058326	1038.19	Degrading	0.7795
TF5.5	Winter	Chlorophyte Biomass	0.0001	7700564	1158908	9967.01	Improving	1.0000
TF5.5	Winter	Picoplankton Biomass	0.1458	-472313	12825000	-44.19	No Trend	0.6278
TF5.5	Winter	Cryptophyte Biomass	0.0041	1880481	7079973	398.41	Increasing	0.3272
TF5.5	Winter	Cyanobacteria Abundance	0.0026	112586	61534	2744.50	Degrading	0.7795
RET5.2	Winter	Total Abundance	0.7135	245116	37860153	9.71	No Trend	0.5680
RET5.2	Winter	Total Biomass	0.0007	68439279	192197025	534.13	Increasing	0.3500
RET5.2	Winter	Biomass to Abundance Ratio	0.0001	6.18	3.37	2747.12	Improving	0.9221
RET5.2	Winter	Margalef Diversity Index	0.4193	0.00	1.81	3.73	No Trend	0.2550
RET5.2	Winter	Diatom Biomass	0.0020	44026712	141808263	465.70	Improving	0.3424
RET5.2	Winter	Dinoflagellate Biomass	0.8999	0	803180	0.00	No Trend	0.9590
RET5.2	Winter	Cyanobacteria Biomass	0.2708	320312	2817179	170.55	No Trend	0.2038
RET5.2	Winter	Chlorophyte Biomass	0.0001	14047445	1745436	12072.15	Improving	0.3656
RET5.2	Winter	Picoplankton Biomass	0.0117	-1202167	20775000	-69.44	No Trend	0.8317
RET5.2	Winter	Cryptophyte Biomass	0.0474	1979306	11138971	266.54	No Trend	0.9625
RET5.2	Winter	Cyanobacteria Abundance	0.0780	155347	169771	1372.56	No Trend	0.2445
LE5.5	Winter	Total Abundance	0.0447	-262099	25652043	-22.48	No Trend	0.4678
LE5.5	Winter	Total Biomass	0.8644	1152120	335236009	7.56	No Trend	0.2001
LE5.5	Winter	Biomass to Abundance Ratio	0.0876	1.96	17.10	251.69	No Trend	0.8644
LE5.5	Winter	Margalef Diversity Index	0.8981	0.00	2.44	-0.85	No Trend	0.8309
LE5.5	Winter	Diatom Biomass	0.8981	1810870	265431410	15.01	No Trend	0.2857
LE5.5	Winter	Dinoflagellate Biomass	0.2489	884806	23070354	84.38	No Trend	0.0663
LE5.5	Winter	Cyanobacteria Biomass	0.8976	0	243373	0.00	No Trend	0.3680
LE5.5	Winter	Chlorophyte Biomass	0.0980	53972	5619	21130.77	No Trend	0.7716
LE5.5	Winter	Picoplankton Biomass	0.4658	-77005	7905000	-17.53	No Trend	0.6904
LE5.5	Winter	Cryptophyte Biomass	0.2761	197150	4810319	90.17	No Trend	0.5078
LE5.5	Winter	Cyanobacteria Abundance	0.9829	0	7970	0.00	No Trend	0.4028
SBE5	Winter	Total Abundance	0.8103	-61777	5843118	-20.09	No Trend	0.2332
SBE5	Winter	Total Biomass	0.5397	-2020167	132986486	-28.86	No Trend	0.7237
SBE5	Winter	Biomass to Abundance Ratio	0.7288	0.61	30.56	37.98	No Trend	0.4517
SBE5	Winter	Margalef Diversity Index	0.2101	-0.02	2.58	-15.74	No Trend	0.8469
SBE5	Winter	Diatom Biomass	0.6503	-1499470	44433057	-64.12	No Trend	0.6741
SBE5	Winter	Dinoflagellate Biomass	0.9787	7195	16373424	0.83	No Trend	0.5342
SBE5	Winter	Cyanobacteria Biomass	0.0375	122847	138775	1681.93	No Trend	0.9487
SBE5	Winter	Chlorophyte Biomass	0.9142	0	396241	0.00	No Trend	0.5925
SBE5	Winter	Picoplankton Biomass	0.0390	186941	3885000	86.61	No Trend	0.9302
SBE5	Winter	Cryptophyte Biomass	0.3789	-261433	12238149	-40.59	No Trend	0.7124
SBE5	Winter	Cyanobacteria Abundance	0.0141	21434	5568	7313.90	No Trend	0.8617

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF4.2	Winter	Total Abundance	0.8476	19643	17007192	1.73	No Trend	0.5443
TF4.2	Winter	Total Biomass	0.0837	7294447	50289039	217.58	No Trend	0.7455
TF4.2	Winter	Biomass to Abundance Ratio	0.2335	1.33	2.87	694.24	No Trend	0.4400
TF4.2	Winter	Margalef Diversity Index	0.9693	0.00	1.87	-0.21	No Trend	0.4555
TF4.2	Winter	Diatom Biomass	0.2650	3542186	41604487	127.71	No Trend	0.9385
TF4.2	Winter	Dinoflagellate Biomass	0.7472	0	11238	0.00	No Trend	0.8940
TF4.2	Winter	Cyanobacteria Biomass	0.0006	465002	403282	1729.57	Degrading	0.5248
TF4.2	Winter	Chlorophyte Biomass	0.0417	350500	1221495	430.41	No Trend	0.8921
TF4.2	Winter	Picoplankton Biomass	0.1458	-355839	10065000	-42.42	No Trend	0.3828
TF4.2	Winter	Cryptophyte Biomass	0.0837	1064488	12007929	132.97	No Trend	0.6306
TF4.2	Winter	Cyanobacteria Abundance	0.0019	105566	58370	2712.85	Degrading	0.7711
RET4.3	Winter	Total Abundance	0.2341	-563247	24677769	-34.24	No Trend	0.6745
RET4.3	Winter	Total Biomass	0.2938	15139151	304313529	74.62	No Trend	1.0000
RET4.3	Winter	Biomass to Abundance Ratio	0.0006	3.93	11.78	500.06	Improving	0.7795
RET4.3	Winter	Margalef Diversity Index	0.1236	-0.03	1.80	-27.68	No Trend	0.2341
RET4.3	Winter	Diatom Biomass	0.4414	5769992	267279796	32.38	No Trend	0.6745
RET4.3	Winter	Dinoflagellate Biomass	0.5510	179956	4468567	60.41	No Trend	0.6987
RET4.3	Winter	Cyanobacteria Biomass	0.1216	58325	414807	210.91	No Trend	0.2950
RET4.3	Winter	Chlorophyte Biomass	0.0133	359466	0		No Trend	0.3220
RET4.3	Winter	Picoplankton Biomass	0.2861	-333554	14775000	-27.09	No Trend	0.7711
RET4.3	Winter	Cryptophyte Biomass	0.2628	776803	7851546	148.40	No Trend	0.3629
RET4.3	Winter	Cyanobacteria Abundance	0.0128	39563	13543	4382.11	No Trend	0.4231
WE4.2	Winter	Total Abundance	0.0150	-336697	20429921	-36.26	No Trend	0.9634
WE4.2	Winter	Total Biomass	0.2708	-8741460	483450678	-39.78	No Trend	0.2329
WE4.2	Winter	Biomass to Abundance Ratio	0.4089	0.67	21.78	68.07	No Trend	0.8544
WE4.2	Winter	Margalef Diversity Index	0.0665	-0.02	2.92	-17.99	No Trend	0.3128
WE4.2	Winter	Diatom Biomass	0.1420	-7883283	417536203	-41.54	No Trend	0.6464
WE4.2	Winter	Dinoflagellate Biomass	0.1300	1283018	22760684	124.01	No Trend	0.3833
WE4.2	Winter	Cyanobacteria Biomass	0.0173	51837	5881	19391.59	No Trend	0.6912
WE4.2	Winter	Chlorophyte Biomass	0.4850	-47	373253	-0.28	No Trend	0.4603
WE4.2	Winter	Picoplankton Biomass	0.2386	245581	6450000	68.53	No Trend	0.5032
WE4.2	Winter	Cryptophyte Biomass	0.3708	-171700	12745504	-29.64	No Trend	0.5663
WE4.2	Winter	Cyanobacteria Abundance	0.0173	3631	192	41602.39	No Trend	0.9780

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
TF3.3	Winter	Total Abundance	0.9415	-19902	88025952	-0.34	No Trend	0.8857
TF3.3	Winter	Total Biomass	0.0474	18839310	237935059	118.77	No Trend	0.6247
TF3.3	Winter	Biomass to Abundance Ratio	0.0053	2.19	5.64	581.29	Improving	0.7079
TF3.3	Winter	Margalef Diversity Index	0.2401	0.02	1.46	19.81	No Trend	0.7573
TF3.3	Winter	Diatom Biomass	0.0398	14263954	222361508	96.22	No Trend	0.5760
TF3.3	Winter	Dinoflagellate Biomass	0.7146	0	5619	0.00	No Trend	0.3455
TF3.3	Winter	Cyanobacteria Biomass	0.0332	406513	1132696	538.34	No Trend	0.9141
TF3.3	Winter	Chlorophyte Biomass	0.0154	1685592	6828208	370.29	No Trend	0.5390
TF3.3	Winter	Picoplankton Biomass	0.8773	-94275	21225000	-5.33	No Trend	0.8688
TF3.3	Winter	Cryptophyte Biomass	0.0474	1456830	4870537	448.67	No Trend	0.7325
TF3.3	Winter	Cyanobacteria Abundance	0.0228	125142	173969	1079.01	No Trend	0.9082
RET3.1	Winter	Total Abundance	0.4193	-714240	81060762	-13.22	No Trend	0.4863
RET3.1	Winter	Total Biomass	0.2401	11632077	222318386	78.48	No Trend	0.1894
RET3.1	Winter	Biomass to Abundance Ratio	0.0780	2.47	2.84	1303.77	No Trend	0.9876
RET3.1	Winter	Margalef Diversity Index	0.7690	-0.01	1.61	-4.94	No Trend	0.6163
RET3.1	Winter	Diatom Biomass	0.0913	11682216	135222115	129.59	No Trend	0.2060
RET3.1	Winter	Dinoflagellate Biomass	0.1095	-236509	6089934	-58.25	No Trend	0.6976
RET3.1	Winter	Cyanobacteria Biomass	0.7690	48076	5732470	12.58	No Trend	0.3305
RET3.1	Winter	Chlorophyte Biomass	0.0664	514734	899577	858.29	No Trend	0.5925
RET3.1	Winter	Picoplankton Biomass	0.8773	-73296	15637500	-5.62	No Trend	0.4317
RET3.1	Winter	Cryptophyte Biomass	0.1863	1551714	16927650	137.50	No Trend	0.0781
RET3.1	Winter	Cyanobacteria Abundance	0.2401	15071	613378	36.86	No Trend	0.2440
LE3.6	Winter	Total Abundance	0.0266	-294377	21935073	-29.52	No Trend	0.8514
LE3.6	Winter	Total Biomass	0.3486	-6898758	530233319	-28.62	No Trend	0.3107
LE3.6	Winter	Biomass to Abundance Ratio	0.2826	1.34	24.18	122.13	No Trend	0.3755
LE3.6	Winter	Margalef Diversity Index	0.0127	-0.02	2.54	-21.31	No Trend	0.7297
LE3.6	Winter	Diatom Biomass	0.1926	-8700063	472401658	-40.52	No Trend	0.1477
LE3.6	Winter	Dinoflagellate Biomass	0.1632	901438	16752373	118.38	No Trend	0.6206
LE3.6	Winter	Cyanobacteria Biomass	0.0001	92221	515 394291.17		Degrading	0.4288
LE3.6	Winter	Chlorophyte Biomass	0.1515	13246	474724	61.38	No Trend	0.5305
LE3.6	Winter	Picoplankton Biomass	0.9243	-21312	22050000	-1.74	No Trend	0.9164
LE3.6	Winter	Cryptophyte Biomass	0.9818	-2095	11849343	-0.39	No Trend	0.3697
LE3.6	Winter	Cyanobacteria Abundance	0.0005	12169	64 418314.29		Degrading	0.3344

Appendix E. Continued.

Station	Season	Parameter	P value	Slope	Baseline	Percent Change	Direction	Homogeneity test P value
CB6.1	Winter	Total Abundance	0.0784	-270269	12206518	-48.71	No Trend	0.5592
CB6.1	Winter	Total Biomass	0.2087	-8678187	616270792	-30.98	No Trend	0.3002
CB6.1	Winter	Biomass to Abundance Ratio	0.5371	0.56	42.18	29.03	No Trend	0.2999
CB6.1	Winter	Margalef Diversity Index	0.6640	0.00	2.39	-4.16	No Trend	0.5129
CB6.1	Winter	Diatom Biomass	0.2257	-8226414	402565171	-44.96	No Trend	0.0683
CB6.1	Winter	Dinoflagellate Biomass	0.3486	663165	52922523	27.57	No Trend	0.5186
CB6.1	Winter	Cyanobacteria Biomass	0.1338	13126	653	44234.76	No Trend	0.4803
CB6.1	Winter	Chlorophyte Biomass	0.7828	0	245655	0.00	No Trend	0.8321
CB6.1	Winter	Picoplankton Biomass	0.8244	-41094	22575000	-3.28	No Trend	0.7570
CB6.1	Winter	Cryptophyte Biomass	0.8370	49160	9768781	11.07	No Trend	0.1788
CB6.1	Winter	Cyanobacteria Abundance	0.2131	1257	256	10800.00	No Trend	0.4503
CB6.4	Winter	Total Abundance	0.0150	-365134	17684788	-45.42	No Trend	0.6893
CB6.4	Winter	Total Biomass	0.8945	2504034	571446009	9.64	No Trend	0.2702
CB6.4	Winter	Biomass to Abundance Ratio	0.0770	1.39	27.24	112.29	No Trend	0.5778
CB6.4	Winter	Margalef Diversity Index	0.4009	-0.01	2.31	-8.46	No Trend	0.1077
CB6.4	Winter	Diatom Biomass	1.0000	-350987	488325613	-1.58	No Trend	0.3298
CB6.4	Winter	Dinoflagellate Biomass	0.1019	1351146	60036437	49.51	No Trend	0.3835
CB6.4	Winter	Cyanobacteria Biomass	0.0290	7415	0	0	No Trend	0.9823
CB6.4	Winter	Chlorophyte Biomass	0.0762	61	0	0	No Trend	0.5169
CB6.4	Winter	Picoplankton Biomass	0.1140	-484187	20062500	-43.44	No Trend	0.7677
CB6.4	Winter	Cryptophyte Biomass	0.1446	574408	12056790	104.81	No Trend	0.0523
CB6.4	Winter	Cyanobacteria Abundance	0.0278	1283	0	0	No Trend	0.8486
CB7.3E	Winter	Total Abundance	0.0420	-289578	13490101	-47.23	No Trend	0.7115
CB7.3E	Winter	Total Biomass	0.4009	-5505720	359313637	-33.71	No Trend	0.2437
CB7.3E	Winter	Biomass to Abundance Ratio	0.3308	1.18	18.73	139.09	No Trend	0.3571
CB7.3E	Winter	Margalef Diversity Index	0.1019	-0.03	2.45	-25.29	No Trend	0.6683
CB7.3E	Winter	Diatom Biomass	0.3092	-3588971	277372591	-28.47	No Trend	0.5897
CB7.3E	Winter	Dinoflagellate Biomass	1.0000	2795	26779908	0.23	No Trend	0.1321
CB7.3E	Winter	Cyanobacteria Biomass	0.0150	32141	127266	555.62	No Trend	0.6303
CB7.3E	Winter	Chlorophyte Biomass	0.1315	234	1198	430.27	No Trend	0.9595
CB7.3E	Winter	Picoplankton Biomass	0.5635	-206687	15360000	-24.22	No Trend	0.8994
CB7.3E	Winter	Cryptophyte Biomass	0.7236	133847	12381801	23.78	No Trend	0.1527
CB7.3E	Winter	Cyanobacteria Abundance	0.0096	5294	4179	2787.20	Degrading	0.5784
CB7.4	Winter	Total Abundance	0.7007	-41802	11467204	-8.02	No Trend	0.6385
CB7.4	Winter	Total Biomass	0.0236	14330829	206970645	152.33	No Trend	0.9659
CB7.4	Winter	Biomass to Abundance Ratio	0.0364	3.04	19.00	351.74	No Trend	0.5788
CB7.4	Winter	Margalef Diversity Index	0.0117	-0.03	2.61	-26.64	No Trend	0.7650
CB7.4	Winter	Diatom Biomass	0.0364	10943173	174170521	138.23	No Trend	0.9659
CB7.4	Winter	Dinoflagellate Biomass	0.6693	200577	16858102	26.18	No Trend	0.4944
CB7.4	Winter	Cyanobacteria Biomass	0.0416	793	980	1779.08	No Trend	0.3872
CB7.4	Winter	Chlorophyte Biomass	0.0448	863	5452	348.19	No Trend	0.2342
CB7.4	Winter	Picoplankton Biomass	0.9757	-1202	21900000	-0.10	No Trend	0.4839
CB7.4	Winter	Cryptophyte Biomass	0.3931	194685	5084610	84.24	No Trend	0.4944
CB7.4	Winter	Cyanobacteria Abundance	0.1151	64	160	880.00	No Trend	0.1046