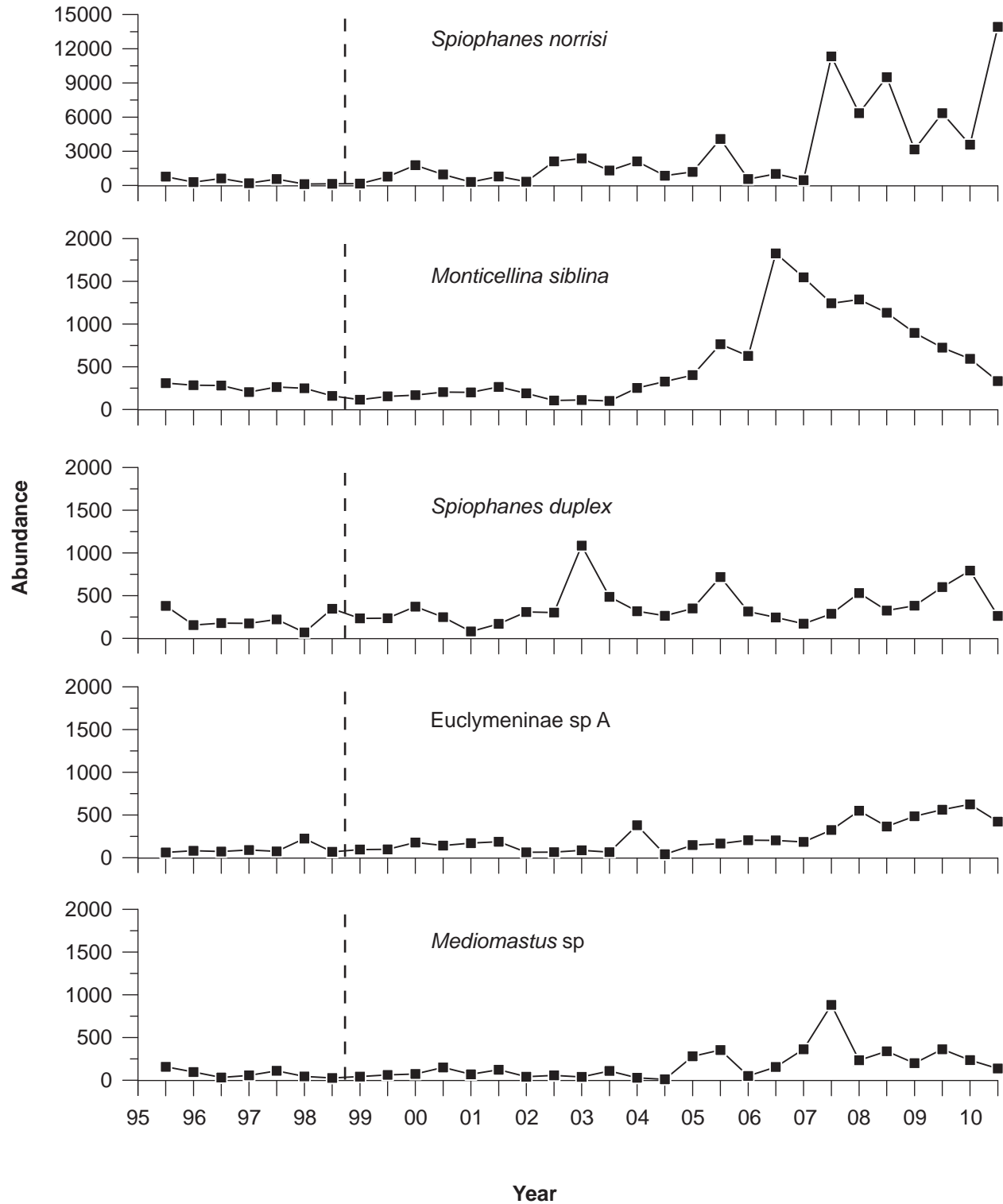
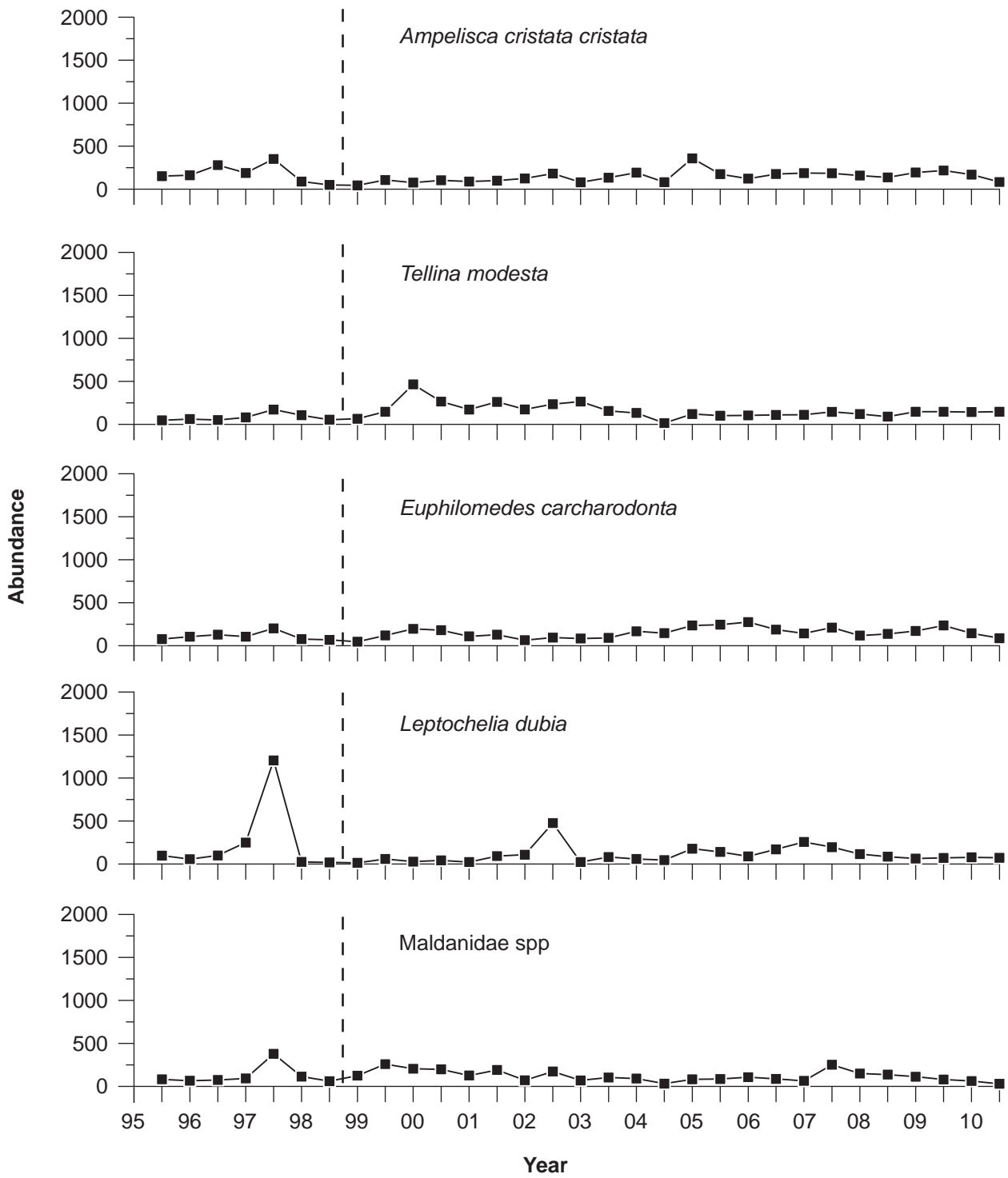


Appendix D
Supporting Data
2010 SBOO Stations
Macrobenthic Communities



Appendix D.1

Total abundance per survey for each of the 10 most abundant species (taxa) at the SBOO benthic stations from 1995 to 2010; note expanded scale for *Spiophanes norrisi*. Dashed line indicates onset of wastewater discharge.



Appendix D.1 *continued*

Appendix D.2

Summary of taxa that distinguish between cluster groups according to SIMPER analysis. Shown are the five taxa with the greatest percent contribution to overall average Bray-Curtis dissimilarity between each group.

Species/Taxa	Average Dissimilarity/ Standard Deviation	Percent Contribution	Cumulative Percent Contribution
Groups A & B			
<i>Ophiuroconis bispinosa</i>	2.6	1.6	1.6
<i>Jasmineira</i> sp B	2.5	1.4	2.9
<i>Notomastus latericeus</i>	1.5	1.3	4.2
<i>Mooreonuphis</i> sp SD1	1.6	1.3	5.5
<i>Dendraster terminalis</i>	2.7	1.3	6.8
Groups A & C			
<i>Dendraster terminalis</i>	1.4	1.9	1.9
<i>Ophiuroconis bispinosa</i>	1.9	1.5	3.4
<i>Jasmineira</i> sp B	2.3	1.4	4.8
<i>Scoloplos armiger</i> Cmplx	1.5	1.4	6.2
<i>Mooreonuphis</i> sp SD1	1.6	1.3	7.4
Groups A & D			
<i>Ophiuroconis bispinosa</i>	5.3	1.6	1.6
<i>Eurydice caudata</i>	2.0	1.4	3.0
<i>Jasmineira</i> sp B	2.5	1.2	4.2
<i>Mooreonuphis</i> sp SD1	1.5	1.2	5.4
<i>Lirobarleeia kelseyi</i>	2.3	1.0	6.4
Groups A & E			
<i>Tellina modesta</i>	2.4	1.2	1.2
<i>Eurydice caudata</i>	2.2	1.1	2.3
<i>Ophiuroconis bispinosa</i>	2.7	1.1	3.4
<i>Mooreonuphis</i> sp SD1	1.5	1.0	4.4
<i>Jasmineira</i> sp B	2.3	0.9	5.3
Groups A & F			
<i>Axinopsida serricata</i>	3.3	1.4	1.4
<i>Pista estevanica</i>	1.2	1.3	2.7
<i>Aricidea (Acmira) simplex</i>	2.3	1.3	4.0
<i>Myriochele gracilis</i>	1.9	1.0	5.0
<i>Eurydice caudata</i>	1.9	1.0	6.0
Groups B & C			
<i>Glycera oxycephala</i>	2.1	1.6	1.6
<i>Notomastus latericeus</i>	1.4	1.5	3.1
<i>Solamen columbianum</i>	1.4	1.3	4.4
<i>Spio maculata</i>	1.8	1.3	5.6
<i>Amphiodia urtica</i>	1.3	1.2	6.8
Groups B & D			
<i>Glycera oxycephala</i>	2.4	1.5	1.5

Appendix D.2 *continued*

Species/Taxa	Average Dissimilarity/ Standard Deviation	Percent Contribution	Cumulative Percent Contribution
Groups B & D			
<i>Lumbrinerides platypygos</i>	1.8	1.3	2.9
<i>Dendraster terminalis</i>	2.8	1.3	4.2
<i>Amphiodia urtica</i>	1.3	1.2	5.4
<i>Notomastus latericeus</i>	1.4	1.2	6.6
Groups B & E			
<i>Glycera oxycephala</i>	2.1	1.2	1.2
<i>Spiophanes berkeleyorum</i>	1.9	1.1	2.3
<i>Euclymeninae</i> sp A	2.5	1.0	3.3
<i>Lumbrinerides platypygos</i>	1.7	1.0	4.3
<i>Dendraster terminalis</i>	2.7	1.0	5.2
Groups B & F			
<i>Aricidea (Acmira) simplex</i>	3.2	1.5	1.5
<i>Axinopsida serricata</i>	3.4	1.3	2.8
<i>Pista estevanica</i>	1.1	1.2	4.0
<i>Photis californica</i>	2.4	1.1	5.0
<i>Myriochele gracilis</i>	1.9	1.0	6.0
Groups C & D			
<i>Dendraster terminalis</i>	1.3	1.6	1.6
<i>Spio maculata</i>	3.3	1.3	2.9
<i>Scoloplos armiger</i> Cmplx	1.4	1.1	4.0
<i>Solamen columbianum</i>	1.7	1.1	5.1
<i>Typosyllis</i> sp SD2	1.9	1.1	6.2
Groups C & E			
<i>Tellina modesta</i>	2.4	1.2	1.2
<i>Dendraster terminalis</i>	1.4	1.2	2.4
<i>Spiophanes berkeleyorum</i>	2.0	1.1	3.5
<i>Euclymeninae</i> sp A	2.6	1.0	4.5
<i>Spio maculata</i>	3.0	0.9	5.4
Groups C & F			
<i>Aricidea (Acmira) simplex</i>	3.1	1.4	1.4
<i>Pista estevanica</i>	1.3	1.4	2.8
<i>Axinopsida serricata</i>	3.4	1.3	4.1
<i>Dendraster terminalis</i>	1.3	1.0	5.1
<i>Photis californica</i>	2.2	1.0	6.1
Groups D & E			
<i>Mooreonuphis nebulosa</i>	1.4	0.9	0.9
<i>Tellina modesta</i>	1.5	0.9	1.8
<i>Euphilomedes carcharodonta</i>	1.6	0.9	2.6

Appendix D.2 *continued*

Species/Taxa	Average Dissimilarity/ Standard Deviation	Percent Contribution	Cumulative Percent Contribution
Groups D & E			
<i>Euclymeninae</i> sp A	1.8	0.8	3.5
<i>Ampelisca brevisimulata</i>	2.3	0.8	4.3
Groups D & F			
<i>Aricidea (Acmira) simplex</i>	3.2	1.4	1.4
<i>Pista estevanica</i>	1.3	1.3	2.8
<i>Axinopsida serricata</i>	3.3	1.3	4.0
<i>Photis californica</i>	2.4	1.0	5.1
<i>Myriochele gracilis</i>	1.9	1.0	6.0
Groups E & F			
<i>Aricidea (Acmira) simplex</i>	3.2	1.4	1.4
<i>Axinopsida serricata</i>	2.5	1.2	2.5
<i>Pista estevanica</i>	1.1	1.0	3.5
<i>Photis californica</i>	2.2	0.9	4.4
<i>Myriochele gracilis</i>	2.0	0.9	5.3

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