

## Appendix 7 Similarity Percentages (SIMPER) Results

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## APPENDIX 7 SIMILARITY PERCENTAGES (SIMPER) RESULTS

### One-Way Analysis

#### *Data worksheet*

Name: Data1

Data type: Other

Sample selection: All

Variable selection: All

#### *Parameters*

Resemblance: S17 Bray Curtis similarity

Cut off for low contributions: 90.00%

#### *Factor Groups*

Sample	Habitat
HS-002NEWMLL	Biomat
HS-10002	Biomat
HS-10003	Biomat
HS-10004	Biomat
HS-10001	EG2
HS-682	EG2
HS-10005	IT1
HS-10007	IT1
HS-712	IT1
HS-767	IT1
HS-877	IT1
HS-10006	Biofilm
HS-10300	Biofilm
HS-598	Biofilm
HS-612	Biofilm
HS-614	Biofilm
HS-617	Biofilm
HS-626	Biofilm
HS-634	Biofilm
HS-637	Biofilm
HS-10200	IT2
HS-851	IT2
HS-860	IT2
HS-972	IT2



*Group Blomat*

Average similarity: 68.20

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Nitzschia spp.	21.18	6.90	9.60	10.12	10.12
Navicula spp.	20.55	6.64	10.33	9.74	19.86
Leptolyngbya sp.	19.59	6.42	9.25	9.42	29.28
Mastogloia spp.	19.50	6.27	8.58	9.20	38.47
Undetermined Pennate	19.29	6.25	9.16	9.16	47.64
Melosira spp.	18.96	5.95	6.13	8.72	56.36
Amphora spp.	18.59	5.84	10.41	8.56	64.91
Achnanthes spp.	18.27	5.70	9.70	8.36	73.28
Gyrosigma spp.	14.86	3.05	0.91	4.47	77.75
Caloneis spp.	13.82	2.85	0.91	4.18	81.92
Tabularia tabulata	13.18	2.76	0.90	4.05	85.98
Aulacoseira spp.	13.18	2.74	0.91	4.01	89.99
Diploneis sp.	13.42	2.58	0.91	3.78	93.77

*Group EG2*

Average similarity: 61.80

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Navicula spp.	17.97	9.54	#####	15.44	15.44
Nitzschia spp.	18.07	9.29	#####	15.03	30.47
Undetermined Pennate	16.96	8.87	#####	14.36	44.83
Melosira spp.	17.85	8.66	#####	14.01	58.83
Gyrosigma spp.	17.82	8.66	#####	14.01	72.84
Aulacoseira spp.	15.92	8.50	#####	13.75	86.59
Amphora spp.	16.42	8.28	#####	13.41	100.00

*Group IT1*

Average similarity: 46.80

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Navicula spp.	18.77	8.90	4.29	19.02	19.02
Amphora spp.	18.93	8.69	4.71	18.57	37.59
Nitzschia spp.	18.95	8.63	4.78	18.45	56.04
Achnanthes spp.	14.35	5.25	1.08	11.23	67.26
Mastogloia spp.	13.63	4.79	1.09	10.23	77.49
Cyclotella spp.	10.22	1.99	0.61	4.25	81.74
Cocconeis spp.	10.49	1.98	0.61	4.23	85.96
Gomphonema spp.	10.32	1.91	0.61	4.07	90.04

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*Group Biofilm*

Average similarity: 52.08

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Nitzschia spp.	17.78	10.80	6.24	20.73	20.73
Navicula spp.	17.48	10.22	6.13	19.62	40.35
Gyrosigma spp.	11.73	4.26	0.82	8.18	48.53
Diploneis sp.	10.91	3.80	0.82	7.29	55.82
Melosira spp.	11.04	3.79	0.82	7.28	63.10
Gomphonema spp.	11.33	3.78	0.83	7.26	70.36
Amphora spp.	11.30	3.75	0.82	7.20	77.56
Aulacoseira spp.	9.56	2.93	0.60	5.63	83.19
Undetermined Pennate	9.19	2.79	0.60	5.37	88.56
Caloneis spp.	7.38	1.76	0.44	3.39	91.94

*Group IT2*

Average similarity: 51.70

Species	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
Navicula spp.	16.58	12.91	10.56	24.97	24.97
Nitzschia spp.	16.96	12.66	11.66	24.49	49.46
Cyclotella spp.	15.57	12.36	7.59	23.90	73.36
Amphora spp.	12.53	5.95	0.90	11.51	84.87
Melosira spp.	8.28	2.38	0.41	4.60	89.48
Paralia sulcata	9.34	1.93	0.41	3.74	93.22

*Groups Biomat & EG2*

Average dissimilarity = 44.72

Species	Group Biomat	Group EG2	Av.Diss	Diss/SD	Contrib%	Cum.%
	Av.Abund	Av.Abund				
Leptolyngbya sp.	19.59	0.00	4.02	8.77	8.99	8.99
Achnanthes spp.	18.27	0.00	3.75	6.71	8.39	17.38
Caloneis spp.	13.82	0.00	2.78	1.58	6.22	23.60
Diploneis sp.	13.42	0.00	2.69	1.51	6.02	29.62
Mastogloia spp.	19.50	8.35	2.38	1.20	5.31	34.93
Oscillatoria sp.	9.26	0.00	1.97	0.93	4.41	39.34
Tabularia tabulata	13.18	8.69	1.88	0.96	4.20	43.54
Cocconeis spp.	4.15	8.42	1.78	0.92	3.98	47.52
Fragilaria spp.	4.61	8.35	1.77	0.96	3.96	51.48
Tryblionella spp.	4.15	8.27	1.75	0.92	3.92	55.40
Gomphonema spp.	8.25	7.37	1.69	1.03	3.78	59.18
Undetermined Centric	8.41	0.00	1.63	0.92	3.65	62.83
Cyclotella spp.	8.43	0.00	1.60	0.93	3.58	66.41
Achnanthidium sp.	8.43	0.00	1.60	0.93	3.58	70.00
Cymbella spp.	0.00	8.00	1.56	0.93	3.50	73.50
Coscinodiscus sp.	0.00	8.00	1.56	0.93	3.50	76.99
Gyrosigma spp.	14.86	17.82	1.31	0.82	2.93	79.92
Rhopalodia spp.	5.19	0.00	1.12	0.54	2.51	82.43
Aulacoseira spp.	13.18	15.92	1.10	0.76	2.47	84.90
Bacillaria paradoxa	4.80	0.00	1.07	0.54	2.40	87.30
Neidium spp.	4.25	0.00	0.95	0.54	2.12	89.42
Skeletonema spp.	4.50	0.00	0.77	0.54	1.73	91.15



## Groups Biomat & IT1

Average dissimilarity = 48.13

Species	Group Biomat Av.Abund	Group IT1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Leptolyngbya sp.	19.59	4.12	3.30	1.94	6.86	6.86
Caloneis spp.	13.82	0.00	2.69	1.59	5.58	12.45
Undetermined Pennate	19.29	7.09	2.61	1.30	5.43	17.88
Melosira spp.	18.96	8.02	2.54	1.28	5.28	23.16
Tabularia tabulata	13.18	3.44	2.34	1.29	4.85	28.01
Gyrosigma spp.	14.86	6.56	2.22	1.32	4.61	32.62
Diploneis sp.	13.42	7.59	2.14	1.15	4.45	37.07
Aulacoseira spp.	13.18	6.76	2.03	1.13	4.23	41.29
Oscillatoria sp.	9.26	0.00	1.90	0.95	3.95	45.24
Cocconeis spp.	4.15	10.49	1.83	1.11	3.81	49.05
Gomphonema spp.	8.25	10.32	1.75	1.06	3.64	52.69
Cyclotella spp.	8.43	10.22	1.75	1.02	3.63	56.32
Rhopalodia spp.	5.19	6.77	1.65	0.88	3.43	59.75
Undetermined Centric	8.41	3.01	1.61	0.98	3.34	63.09
Achnantheidium sp.	8.43	3.28	1.59	0.96	3.30	66.39
Pleurosigma spp.	0.00	6.69	1.18	0.78	2.45	68.84
Mastogloia spp.	19.50	13.63	1.17	0.84	2.44	71.28
Bacillaria paradoxa	4.80	0.00	1.03	0.55	2.15	73.43
Tryblionella spp.	4.15	3.15	1.03	0.72	2.15	75.57
Ctenophora pulchella	4.15	3.15	1.03	0.72	2.15	77.72
Fragilaria spp.	4.61	0.00	0.96	0.55	1.99	79.71
Neidium spp.	4.25	0.00	0.92	0.55	1.90	81.61
Achnanthes spp.	18.27	14.35	0.89	0.66	1.84	83.45
Paralia sulcata	0.00	3.89	0.76	0.48	1.58	85.04
Skeletonema spp.	4.50	0.00	0.75	0.56	1.55	86.59
Biddulphia sp.	0.00	3.69	0.75	0.48	1.55	88.14
Campylodiscus sp.	4.15	0.00	0.69	0.56	1.43	89.57
Anabaena sp.	0.00	4.42	0.69	0.49	1.43	91.00

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*Groups EG2 & IT1*

Average dissimilarity = 50.39

Species	Group EG2 Av.Abund	Group IT1 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Achnanthes spp.	0.00	14.35	3.80	1.68	7.55	7.55
Melosira spp.	17.85	8.02	3.25	1.36	6.45	14.00
Undetermined Pennate	16.96	7.09	3.04	1.23	6.04	20.04
Aulacoseira spp.	15.92	6.76	2.85	1.22	5.66	25.70
Gyrosigma spp.	17.82	6.56	2.71	1.36	5.38	31.08
Cyclotella spp.	0.00	10.22	2.43	1.11	4.82	35.89
Mastogloia spp.	8.35	13.63	2.37	0.98	4.70	40.59
Cocconeis spp.	8.42	10.49	2.33	0.98	4.63	45.22
Gomphonema spp.	7.37	10.32	2.25	1.07	4.46	49.68
Tryblionella spp.	8.27	3.15	2.24	0.92	4.45	54.13
Tabularia tabulata	8.69	3.44	2.15	0.93	4.27	58.40
Fragilaria spp.	8.35	0.00	2.04	0.92	4.04	62.44
Cymbella spp.	8.00	3.31	2.03	0.93	4.03	66.47
Coscinodiscus sp.	8.00	0.00	1.95	0.92	3.88	70.34
Diploneis sp.	0.00	7.59	1.67	0.77	3.32	73.66
Rhopalodia spp.	0.00	6.77	1.51	0.75	3.00	76.66
Pleurosigma spp.	0.00	6.69	1.49	0.76	2.96	79.61
Paralia sulcata	0.00	3.89	0.99	0.47	1.96	81.57
Biddulphia sp.	0.00	3.69	0.98	0.47	1.94	83.51
Anabaena sp.	0.00	4.42	0.84	0.47	1.67	85.18
Anabaena torulosa	0.00	4.40	0.83	0.47	1.66	86.83
Achnanthidium sp.	0.00	3.28	0.80	0.47	1.58	88.42
Leptolyngbya sp.	0.00	4.12	0.78	0.47	1.55	89.97
Cylindrotheca sp.	0.00	3.04	0.77	0.47	1.53	91.50



### Groups Biomat & Biofilm

Average dissimilarity = 49.18

Species	Group Biomat Av.Abund	Group Biofilm Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Leptolyngbya sp.	19.59	0.00	4.24	7.37	8.63	8.63
Mastogloia spp.	19.50	3.92	3.42	1.98	6.95	15.58
Achnanthes spp.	18.27	5.46	2.82	1.56	5.73	21.31
Tabularia tabulata	13.18	5.09	2.28	1.31	4.63	25.94
Caloneis spp.	13.82	7.38	2.19	1.19	4.44	30.39
Undetermined Pennate	19.29	9.19	2.18	1.18	4.44	34.82
Oscillatoria sp.	9.26	0.00	2.09	0.98	4.24	39.07
Gyrosigma spp.	14.86	11.73	1.99	1.03	4.04	43.11
Gomphonema spp.	8.25	11.33	1.90	1.02	3.86	46.97
Aulacoseira spp.	13.18	9.56	1.88	1.01	3.81	50.78
Diploneis sp.	13.42	10.91	1.84	1.00	3.74	54.52
Melosira spp.	18.96	11.04	1.84	0.97	3.73	58.25
Cyclotella spp.	8.43	7.14	1.79	1.02	3.64	61.90
Amphora spp.	18.59	11.30	1.76	0.95	3.57	65.47
Undetermined Centric	8.41	0.00	1.72	0.96	3.50	68.96
Achnantheidium sp.	8.43	0.00	1.69	0.97	3.43	72.39
Rhopalodia spp.	5.19	3.95	1.56	0.74	3.16	75.55
Bacillaria paradoxa	4.80	1.75	1.31	0.65	2.65	78.21
Fragilaria spp.	4.61	0.00	1.05	0.57	2.14	80.35
Neidium spp.	4.25	0.00	1.01	0.57	2.05	82.40
Cocconeis spp.	4.15	1.75	0.96	0.65	1.95	84.35
Tryblionella spp.	4.15	1.74	0.96	0.65	1.94	86.30
Paralia sulcata	0.00	4.38	0.91	0.52	1.84	88.14
Skeletonema spp.	4.50	0.00	0.81	0.57	1.64	89.78
Ctenophora pulchella	4.15	0.00	0.74	0.57	1.51	91.29

### Groups EG2 & Biofilm

Average dissimilarity = 45.01

Species	Group EG2 Av.Abund	Group Biofilm Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Diploneis sp.	0.00	10.91	3.05	1.34	6.78	6.78
Cocconeis spp.	8.42	1.75	2.58	0.97	5.74	12.52
Tryblionella spp.	8.27	1.74	2.54	0.96	5.64	18.16
Gomphonema spp.	7.37	11.33	2.53	1.15	5.62	23.78
Tabularia tabulata	8.69	5.09	2.47	1.04	5.49	29.27
Mastogloia spp.	8.35	3.92	2.39	0.98	5.30	34.57
Undetermined Pennate	16.96	9.19	2.36	1.00	5.24	39.81
Fragilaria spp.	8.35	0.00	2.27	0.96	5.04	44.85
Aulacoseira spp.	15.92	9.56	2.25	1.03	5.01	49.86
Caloneis spp.	0.00	7.38	2.22	0.85	4.94	54.79
Melosira spp.	17.85	11.04	2.22	0.90	4.93	59.72
Cymbella spp.	8.00	0.00	2.17	0.96	4.83	64.55
Coscinodiscus sp.	8.00	0.00	2.17	0.96	4.83	69.38
Gyrosigma spp.	17.82	11.73	2.10	0.89	4.67	74.05
Amphora spp.	16.42	11.30	2.03	0.88	4.51	78.56
Cyclotella spp.	0.00	7.14	1.91	0.86	4.24	82.80
Achnanthes spp.	0.00	5.46	1.53	0.67	3.39	86.19
Paralia sulcata	0.00	4.38	1.20	0.52	2.67	88.85
Rhopalodia spp.	0.00	3.95	1.01	0.52	2.25	91.10



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*Groups IT1 & Biofilm*

Average dissimilarity = 53.10

Species	Group IT1 Av.Abund	Group Biofilm Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Mastogloia spp.	13.63	3.92	3.27	1.35	6.16	6.16
Achnanthes spp.	14.35	5.46	3.18	1.22	6.00	12.15
Melosira spp.	8.02	11.04	2.86	1.19	5.39	17.54
Diploneis spp.	7.59	10.91	2.72	1.14	5.12	22.67
Gyrosigma spp.	6.56	11.73	2.59	1.09	4.88	27.55
Aulacoseira spp.	6.76	9.56	2.57	0.99	4.84	32.39
Cocconeis spp.	10.49	1.75	2.55	1.14	4.81	37.20
Undetermined Pennate	7.09	9.19	2.54	1.02	4.78	41.98
Gomphonema spp.	10.32	11.33	2.46	1.00	4.64	46.62
Cyclotella spp.	10.22	7.14	2.44	1.04	4.60	51.22
Amphora spp.	18.93	11.30	2.35	0.94	4.42	55.65
Caloneis spp.	0.00	7.38	2.14	0.83	4.03	59.68
Rhopalodia spp.	6.77	3.95	1.94	0.86	3.65	63.33
Paralia sulcata	3.89	4.38	1.78	0.69	3.36	66.69
Tabularia tabulata	3.44	5.09	1.77	0.78	3.33	70.01
Pleurosigma spp.	6.69	0.00	1.58	0.78	2.98	72.99
Biddulphia sp.	3.69	3.46	1.56	0.69	2.94	75.93
Tryblionella spp.	3.15	1.74	1.11	0.59	2.08	78.02
Cymbella spp.	3.31	0.00	0.90	0.49	1.70	79.72
Anabaena sp.	4.42	0.00	0.88	0.49	1.66	81.38
Anabaena torulosa	4.40	0.00	0.88	0.49	1.65	83.03
Actinocyclus spp.	0.00	3.44	0.87	0.52	1.64	84.68
Achnantheidium sp.	3.28	0.00	0.85	0.49	1.61	86.28
Cylindrotheca sp.	3.04	0.00	0.83	0.49	1.56	87.84
Terpsinoe sp.	3.04	0.00	0.83	0.49	1.56	89.40
Leptolyngbya sp.	4.12	0.00	0.82	0.49	1.55	90.95



### Groups Biomat & IT2

Average dissimilarity = 56.91

Species	Group Biomat Av.Abund	Group IT2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Leptolyngbya sp.	19.59	0.00	4.62	7.89	8.12	8.12
Mastogloia spp.	19.50	4.24	3.69	1.89	6.49	14.60
Undetermined Pennate	19.29	4.26	3.53	1.89	6.21	20.81
Caloneis spp.	13.82	0.00	3.19	1.62	5.61	26.42
Tabularia tabulata	13.18	0.00	3.09	1.61	5.42	31.84
Gyrosigma spp.	14.86	3.93	2.97	1.44	5.22	37.06
Aulacoseira spp.	13.18	4.16	2.57	1.28	4.52	41.57
Achnanthes spp.	18.27	7.82	2.55	1.22	4.49	46.06
Melosira spp.	18.96	8.28	2.48	1.23	4.36	50.42
Diploneis sp.	13.42	8.22	2.29	1.09	4.02	54.44
Oscillatoria sp.	9.26	0.00	2.28	0.96	4.00	58.44
Cyclotella spp.	8.43	15.57	2.12	1.10	3.72	62.16
Paralia sulcata	0.00	9.34	2.09	0.95	3.68	65.84
Gomphonema spp.	8.25	4.16	1.88	0.96	3.30	69.14
Undetermined Centric	8.41	0.00	1.86	0.95	3.27	72.41
Achnantheidium sp.	8.43	0.00	1.82	0.96	3.20	75.61
Amphora spp.	18.59	12.53	1.62	0.93	2.84	78.45
Cocconeis spp.	4.15	4.24	1.34	0.75	2.36	80.81
Rhopalodia spp.	5.19	0.00	1.30	0.56	2.28	83.09
Bacillaria paradoxa	4.80	0.00	1.25	0.56	2.19	85.28
Fragilaria spp.	4.61	0.00	1.15	0.56	2.02	87.30
Neidium spp.	4.25	0.00	1.10	0.56	1.94	89.24
Nitzschia spp.	21.18	16.96	1.01	1.96	1.78	91.02

### Groups EG2 & IT2

Average dissimilarity = 53.45

Species	Group EG2 Av.Abund	Group IT2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Cyclotella spp.	0.00	15.57	5.07	8.38	9.48	9.48
Gyrosigma spp.	17.82	3.93	4.35	1.90	8.14	17.62
Undetermined Pennate	16.96	4.26	4.15	1.64	7.76	25.38
Aulacoseira spp.	15.92	4.16	3.93	1.68	7.34	32.72
Melosira spp.	17.85	8.28	3.07	1.17	5.75	38.47
Tryblionella spp.	8.27	0.00	2.89	0.93	5.41	43.89
Cocconeis spp.	8.42	4.24	2.87	0.92	5.38	49.26
Paralia sulcata	0.00	9.34	2.84	0.93	5.31	54.57
Gomphonema spp.	7.37	4.16	2.65	0.99	4.95	59.52
Tabularia tabulata	8.69	0.00	2.62	0.93	4.90	64.43
Mastogloia spp.	8.35	4.24	2.61	0.94	4.89	69.32
Fragilaria spp.	8.35	0.00	2.52	0.93	4.71	74.03
Diploneis sp.	0.00	8.22	2.51	0.93	4.69	78.72
Cymbella spp.	8.00	0.00	2.41	0.93	4.51	83.23
Coscinodiscus sp.	8.00	0.00	2.41	0.93	4.51	87.75
Achnanthes spp.	0.00	7.82	2.38	0.93	4.46	92.21

**HEMMERA ENVIROCHEM INC.**  
**BIOFILM COMMUNITY AT ROBERTS BANK**  
**ANALYSES TO SUPPORT HYPERSPECTRAL MAPPING**

*Groups IT1 & IT2*

Average dissimilarity = 50.91

Species	Group IT1 Av.Abund	Group IT2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Mastogloia spp.	13.63	4.24	3.62	1.26	7.11	7.11
Achnanthes spp.	14.35	7.82	3.17	1.07	6.22	13.33
Melosira spp.	8.02	8.28	3.05	1.03	5.99	19.32
Paralia sulcata	3.89	9.34	2.89	0.97	5.67	24.99
Cocconeis spp.	10.49	4.24	2.81	1.09	5.51	30.50
Gomphonema spp.	10.32	4.16	2.79	1.07	5.47	35.97
Diploneis sp.	7.59	8.22	2.75	1.03	5.39	41.36
Cyclotella spp.	10.22	15.57	2.55	0.91	5.01	46.38
Gyrosigma spp.	6.56	3.93	2.46	0.86	4.84	51.21
Undetermined Pennate	7.09	4.26	2.27	0.86	4.47	55.68
Aulacoseira spp.	6.76	4.16	2.19	0.86	4.30	59.98
Amphora spp.	18.93	12.53	2.19	0.93	4.30	64.28
Rhopalodia spp.	6.77	0.00	1.76	0.77	3.46	67.74
Pleurosigma spp.	6.69	0.00	1.74	0.77	3.41	71.16
Encyonema spp.	0.00	3.82	1.22	0.54	2.40	73.55
Biddulphia sp.	3.69	0.00	1.17	0.49	2.30	75.85
Cymbella spp.	3.31	0.00	1.00	0.49	1.97	77.82
Anabaena sp.	4.42	0.00	0.95	0.49	1.87	79.69
Anabaena torulosa	4.40	0.00	0.95	0.49	1.86	81.55
Achnantheidium sp.	3.28	0.00	0.94	0.49	1.85	83.40
Cylindrotheca sp.	3.04	0.00	0.92	0.49	1.80	85.21
Terpsinoe sp.	3.04	0.00	0.92	0.49	1.80	87.01
Tryblionella spp.	3.15	0.00	0.90	0.49	1.77	88.79
Ctenophora pulchella	3.15	0.00	0.90	0.49	1.77	90.56

*Groups Biofilm & IT2*

Average dissimilarity = 48.79

Species	Group Biofilm Av.Abund	Group IT2 Av.Abund	Av.Diss	Diss/SD	Contrib%	Cum.%
Gyrosigma spp.	11.73	3.93	3.64	1.22	7.46	7.46
Cyclotella spp.	7.14	15.57	3.47	1.16	7.11	14.57
Gomphonema spp.	11.33	4.16	3.41	1.16	6.98	21.55
Paralia sulcata	4.38	9.34	3.30	1.02	6.76	28.31
Aulacoseira spp.	9.56	4.16	3.29	1.03	6.75	35.06
Undetermined Pennate	9.19	4.26	3.21	1.05	6.59	41.64
Melosira spp.	11.04	8.28	3.08	1.05	6.30	47.95
Diploneis sp.	10.91	8.22	3.07	1.04	6.30	54.24
Amphora spp.	11.30	12.53	2.98	1.04	6.10	60.34
Achnanthes spp.	5.46	7.82	2.83	1.01	5.80	66.14
Caloneis spp.	7.38	0.00	2.75	0.86	5.63	71.77
Mastogloia spp.	3.92	4.24	2.08	0.73	4.26	76.03
Tabularia tabulata	5.09	0.00	1.94	0.68	3.97	80.01
Encyonema spp.	1.82	3.82	1.71	0.65	3.50	83.51
Cocconeis spp.	1.75	4.24	1.66	0.65	3.40	86.90
Rhopalodia spp.	3.95	0.00	1.21	0.52	2.47	89.37
Actinocyclus spp.	3.44	0.00	1.09	0.52	2.23	91.60

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