

Appendix 5.2.1 – Benthic survey data

Table A1. Field data recorded during benthic survey on 24/04/2014

Sample station	Date	Time	Weather	Sea State	Exposure	Depth (m)	Secchi depth (m)	Sample code	Bite depth (cm)	Sediment description
1	24/04/2014	08:20	Sunny & dry	1	Sheltered	12.5	1.3	F1	15	Soft mud, redox layer, tubes, no smell
								S1	17	Soft mud, redox layer, tubes, no smell
2	24/04/2014	08:45	Sunny & dry	1	Sheltered	11.9	1.5	F2	12	Soft mud, redox layer, tubes, no smell
								S2	17	Soft mud, redox layer, tubes, no smell
3	24/04/2014	08:55	Sunny & dry	1	Sheltered	10.1	1.5	F3	17	Soft mud, redox layer, tubes, no smell
								S3	17	Soft mud, redox layer, tubes, no smell
4	24/04/2014	09:10	Sunny & dry	1	Sheltered	8.8	1.5	F4	17	Soft mud, redox layer, tubes, no smell
								S4	17	Soft mud, redox layer, tubes, no smell
5	24/04/2014	09:30	Sunny & dry	2	Moderately exposed	13.4	1.4	F5	5	Shelly sand, firm
								S5	5	Shelly sand, firm
6	24/04/2014	09:45	Sunny & dry	2	Moderately exposed	12.5	2.0	F6	6	Slightly shelly, sand, firm
								S6	6	Slightly shelly, sand, firm
7	24/04/2014	09:55	Sunny & dry	2	Moderately exposed	12.8	1.7	F7	5	Muddy sand, slightly shelly, firm
								S7	5	Muddy sand, slightly shelly, firm
8	24/04/2014	10:10	Sunny & dry	2	Moderately exposed	13	1.4	F8	5	Muddy sand, slightly shelly, firm
								S8	5	Muddy sand, slightly shelly, firm
9	24/04/2014	10:30	Sunny & dry	2	Moderately exposed	9.2	1.5	F9	5	Fine sand, slightly shelly, firm
								S9	5	Fine sand, slightly shelly, firm
10	24/04/2014	10:40	Sunny & dry	2	Moderately exposed	11.1	1.5	F10	5	Fine sand, slightly shelly, firm
								S10	6	Fine sand, slightly shelly, firm
11	24/04/2014	10:50	Sunny & dry	3	Moderately exposed	12.6	1.4	F11	5	Fine sand, slightly shelly, firm
								S11	5	Fine sand, slightly shelly, firm
12	24/04/2014		Sunny & dry	3	Moderately exposed	13.1	1.2	F12	5	Fine sand, slightly shelly, soft
								S12	9	Fine sand, slightly shelly, soft

Table A2. Macroinvertebrates recorded during benthic survey on 24/04/2014

Species	Abundance (individuals per sample)												Total
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	
ANNELIDA													
<i>Protodorvillea kefersteini</i>					4								4
<i>Lumbrineris gracilis</i>	1	2		2	7		2	1			1	4	20
<i>Glycera alba</i>		1				4	1	2	2		2		12
<i>Glycinde nordmanni</i>											1		1
<i>Nephtys caeca</i>	1	1											2
<i>Nephtys hombergii</i>	6	1	2	1			4						14
<i>Nephtys incisa</i>	1		18	4									23
<i>Nephtys sp.</i>				1	1	2					3		7
<i>Eunereis elittoralis</i>	1												1
<i>Pholoe inomata</i>	1	2		1				1					5
<i>Eteone foliosa</i>												1	1
<i>Eteone longa</i>				1			1						2
<i>Eumida bahusiensis</i>				2	15		1	1					19
Phyllococidae indet.											1	1	2
<i>Malmgrenia andrapolis</i>	3	1	2	1								1	8
<i>Malmgreniella arenicolae</i>				1									1
Polynoidae indet.				1									1
<i>Sigalion mathildae</i>									5	1	1		7
<i>Syllis sp.</i>											1		1
<i>Galathowenia oculata</i>					4								4
<i>Owenia fusiformis</i>							1	1		1		1	4
<i>Spirobranchus lamarcki</i>					1								1
<i>Magelona mirabilis</i>							1		10	2	4		17
<i>Aonides paucibranchiata</i>					1								1
<i>Dipolydora quadrilobata</i>				20									20
<i>Spiophanes bombyx</i>					5	9	3	2	5	6	5		35
<i>Ampharete firmarctica</i>					2	3		1	3		1		10
<i>Melinna cristata</i>	7	4	8	24	3							2	45
<i>Aphelocheata marioni</i>				9									9
<i>Caulerella killariensis</i>					1		1						2
<i>Chaetozone setosa</i>		2	1	103			7		7	4	2		126
<i>Diplocirrus glaucus</i>	7	6		6			1					4	24
<i>Lagis koreni</i>			2							1			3
<i>Pectinaria auricoma</i>			1						1			1	3
<i>Lanice conchilega</i>					12	1	1		1				15
<i>Neomphritrite sp.</i>				2									2
<i>Polycirrus plumosus</i>					2								2
<i>Terebellides stroemii</i>	1												1
<i>Heteromastus filiformis</i>	5	4	1	6								1	17
<i>Mediomastus fragilis</i>				19	21		2						42
<i>Euclymene sp.</i>				71	3								74
<i>Praxillella sp.</i>	12	7		24			1						44
Maldanidae indet.											1	1	2
<i>Scoloplos armiger</i>				6	1		10	1			1	1	20
<i>Aricidea suecica</i>					1								1
CRUSTACEA													
<i>Ampelisca brevicornis</i>	1	3					3		1	1			9
<i>Ampelisca tenuicornis</i>	7	6	2	7			1	2			1	6	32
<i>Nototropis falcatus</i>						2							2
<i>Siphonocetes kroyeranus</i>									5	1			6
<i>Photis longicaudata</i>												1	1
<i>Harpinia antennaria</i>	2	7											9
<i>Bathyporeia tenuipes</i>						4	2		5		6		17
<i>Urothoe elegans</i>					24								24
Amphipoda indet.						1							1
<i>Iphinoe trispinosa</i>						1	1	2					4
<i>Diastylis bradyi</i>							1						1
ACTINIARIA													
Actiniaria indet.					1							1	2
ECHINODERMATA													
<i>Leptometra celtica</i>	1												1
<i>Leptosynapta bergensis</i>	6		2	4									12
<i>Acrocnida brachiata</i>	1										1		2
<i>Amphiura chiajei</i>					2	8	5	2			1		18
<i>Amphiura filiformis</i>	12	6	7	1	1	1	1	1	3	3	1	1	37
<i>Ophiura ophiura</i>				4			1			3			8
MOLLUSCA													
<i>Ensis magnus</i>					1	1							2
<i>Phaxas pellucidus</i>	1	1		3		1		1		2	2	2	13
<i>Thracia papyracea</i>				1	3	7	1	3		2	2	2	21
<i>Thyasira flexuosa</i>	7	11	1	12					1	3		1	36
<i>Nucula nitidosa</i>	5	20	17	15	1	2	19	15	12	17	6	8	137
<i>Spisula solida</i>					4	1		6		3		10	24
<i>Spisula subtruncata</i>										1			1
<i>Kurtiella bidentata</i>				1								1	3
<i>Tellimya ferruginosa</i>	3		2	4					1				9
<i>Gari fervensis</i>					1								1
<i>Abra alba</i>	268	169	200	153	6		44	170	2	64	2	61	1139
<i>Abra prismatica</i>					1	2			3				6
<i>Angulus fabula</i>				3		4	2		9	3	5	1	27
<i>Chamelea striatula</i>				1	4			2	2	2	2		13
<i>Dosinia lupinus</i>					1								2
<i>Mysia undata</i>	1	1											2
<i>Euspira pulchella</i>						1	1						2
<i>Lepidochitona cinerea</i>					1								1
NEMERTEA													
Nemertea indet.			1	1	1		1					1	5
PHORONIDA													
<i>Phoronis sp.</i>	1			2									3
Total individuals	362	256	267	519	134	51	120	214	78	120	53	114	2288
Total species	26	21	16	37	31	17	29	18	19	19	24	24	

Table A3. Results of sediment analysis of samples taken on 24/04/2014

Station	% LOI	%ret on 4mm		% ret on 2mm		% ret on 1mm		% ret on 0.5mm		% ret on 0.25mm		% ret on 0.125mm		% ret on 0.063mm		Folk 1954 (MESH)
		Fine Gravel	Very Fine Gravel	Very Fine Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt						
1	3.7	0.00	0.00	0.00	0.10	3.36	35.45	33.37	27.72	Sandy Mud						
2	1.64	0.00	0.00	0.00	0.19	0.51	24.09	44.01	31.20	Sandy Mud						
3	5.3	0.00	0.00	0.00	0.11	0.30	23.86	50.96	24.77	Sandy Mud						
4	6.65	0.00	0.00	0.05	0.73	25.79	41.60	1.93	29.90	Sandy Mud						
5	1.34	2.16	10.37	9.44	8.84	14.91	49.99	3.78	0.50	Gravelly Sand						
6	4.82	0.00	0.50	1.37	2.52	18.95	75.06	1.18	0.43	Sand						
7	3.28	0.00	2.30	2.19	2.55	5.77	78.71	6.92	1.55	Sand						
8	0.51	0.00	0.63	1.16	1.33	1.80	77.33	12.84	4.91	Slightly Gravelly Sand						
9	4.13	0.00	0.46	0.58	0.55	1.04	70.83	25.71	0.84	Sand						
10	1.53	0.00	0.30	0.71	0.88	1.66	65.20	28.14	3.11	Sand						
11	0.47	0.00	1.34	2.59	3.13	3.16	78.91	9.29	1.58	Slightly Gravelly Sand						
12	2.47	0.00	0.00	0.00	0.15	17.59	40.60	24.45	17.20	Sandy Mud						