

Appendix F2
 Hong Kong - Zhuhai - Macao Bridge
 Hong Kong Section and North Lantau Highway Connection
 Ecological Baseline Survey

Marine Benthic Macrofauna

Date of survey: 2 October 2003

Abundance (Counts)	HKS1	HKS2	HKS3	HKS4	HKS5	NLHC1	NLHC2	NLHC3	NLHC4	NLHC5	THW1	THW2	THW3	THW4	THW5	Total
<i>Aglaophamus dibranchis</i>	2	2			1			1		3			3		1	13
<i>Amphioplus laevis</i>	1			1	1										1	4
<i>Ancistrosyllis pilargiformis</i>			3		1						1			2		7
<i>Apionsoma trichocephalus</i>						1										1
<i>Callianassa</i> sp.	1															1
<i>Capitella capitata</i>										1						1
<i>Cirratulus</i> sp.					1	2					4	1	1		1	10
<i>Corophium</i> sp.			1	2	1		1				2	3	2	1	2	15
<i>Cossurella dimorpha</i>			1	1	1	6										9
<i>Dasybranchus caducus</i>					2											2
<i>Gattyana</i> sp.					1									1	1	3
<i>Glycera onomichiensis</i>											1	2			3	6
<i>Hexapus granuliforus</i>												1				1
<i>Laonice cirrata</i>						1						2	1		2	6
<i>Leocrates chinensis</i>				2	1											3
<i>Lumbrineris latreilli</i>														1		1
<i>Lumbrineris</i> sp.											2	2				4
<i>Macoma candida</i>				1												1
<i>Magelona pacifica</i>											1					1
<i>Mediomastus californiensis</i>			5	7	12	1	1	2	2	5			3	11	2	51
<i>Metapenaeus</i> sp.											1					1
<i>Micropodarke dubia</i>			1													1
<i>Nassarius sunninctus</i>	2	3		3												8
<i>Nassarius</i> sp.				1												1
<i>Neoxenophthalmus obscurus</i>	2		7	12	7					1				1		30
<i>Nereis</i> sp.											2				2	4
<i>Notomastus latericens</i>													2	1		3
<i>Paraprionospio pinnata</i>			1			1					2	1			1	6
<i>Poecilochaetus serpens</i>											19	3			1	23
<i>Phyllodoce</i> (A.) <i>chinensis</i>												1	1	1		3
<i>Polydora</i> sp.							1									1
<i>Prionospio cirrifera</i>			18	15	6	1			2		3		1	8	1	55
<i>Prionospio queenslandica</i>											13				3	16
<i>Processa</i> sp.		1										1				2
<i>Protankyra</i> sp.														1		1
<i>Pseudopythina maipoensis</i>					1											1
<i>Pseudopolydora</i> sp.												1				1
<i>Scyllis</i> sp.					1											1
<i>Stigambra hanaokai</i>		1	9	3	4	2	4	2	2	2	8	3	10	6		56
<i>Solen</i> sp.															1	1
<i>Terebellides stroemii</i>															1	1
<i>Theora lata</i>					1	1										2
<i>Typhlocarcinus villosa</i>	1		1										1		1	4
Total	9	7	47	48	42	16	7	5	6	12	59	21	25	34	24	362

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<i>Aglaophamus dibranchis</i>	18.9	7.6			4.2			4.1		12.4			24.6		1.3	73.1
<i>Amphioplus laevis</i>	1.5			2.3	14.1										39.8	57.7
<i>Ancistrosyllis pilargiformis</i>			1.6		0.4						0.4			0.6		3
<i>Apionsoma trichocephalus</i>						0.3										0.3
<i>Callianassa</i> sp.	0.8															0.8
<i>Capitella capitata</i>									0.3							0.3
<i>Cirratulus</i> sp.					1.8	1.4					1.2	0.8	0.2		0.2	5.6
<i>Corophium</i> sp.			0.8	1.7	0.5		0.2				1.5	4.2	0.9	0.2	0.3	10.3
<i>Cossurella dimorpha</i>			0.2	5.8	3.3	1.8										11.1
<i>Dasybranchus caducus</i>					501.5											501.5
<i>Gattyana</i> sp.					0.8									3.8	0.4	5
<i>Glycera onomichiensis</i>											87.3	51.7			27.2	166.2
<i>Hexapus granuliforus</i>												152.4				152.4
<i>Laonice cirrata</i>						0.5						8.1	3.8		0.7	13.1
<i>Leocrates chinensis</i>				7.9	0.6											8.5
<i>Lumbrineris latreilli</i>														121.5		121.5
<i>Lumbrineris</i> sp.											0.7	2.2				2.9
<i>Macoma candida</i>				354.3												354.3
<i>Magelona pacifica</i>											2.1					2.1
<i>Mediomastus californiensis</i>			7.3	6.7	33.1	0.3	0.5	4.3	3	23			1.4	36.5	2.4	118.5
<i>Metapenaeus</i> sp.											108.2					108.2
<i>Micropodarke dubia</i>			2.6													2.6
<i>Nassarius sunninctus</i>	410.9	438.9		287												1136.8
<i>Nassarius</i> sp.				857.7												857.7
<i>Neoxenopthalmus obscurus</i>	387.6		495.5	2057.2	1366.1					145.9				171.2		4623.5
<i>Nereis</i> sp.											3.2				4.5	7.7
<i>Notomastus latericens</i>													5.4	17.4		22.8
<i>Paraprionospio pinnata</i>			0.3			0.7					0.9	0.6			0.9	3.4
<i>Poecilochaetus serpens</i>											17.4	8.9			1	27.3
<i>Phyllodoce (A.) chinensis</i>												0.9	1.4	1.6		3.9
<i>Polydora</i> sp.							0.2									0.2
<i>Prionospio cirrifera</i>			3.1	3	2.1	0.2			0.5		0.3		0.4	1.4	0.1	11.1
<i>Prionospio queenslandica</i>											34.3				4.4	38.7
<i>Processa</i> sp.		0.6										0.4				1
<i>Protankyra</i> sp.														2537.6		2537.6
<i>Pseudopythina maipoensis</i>					1.1											1.1
<i>Pseudopolydora</i> sp.												5.1				5.1
<i>Scyllis</i> sp.					0.2											0.2
<i>Sigambra hanaokai</i>		0.9	5.8	1.8	1.9	0.9	5.5	2.7	8.7	0.6	2.7	1.7	7.6	3.4		44.2
<i>Solen</i> sp.															32.7	32.7
<i>Terebellides stroemii</i>															0.8	0.8
<i>Theora lata</i>					8.2	7.4										15.6
<i>Typhlocarcinus villosa</i>	114.4		45.4										71.4		178.7	409.9
Total	934.1	448	562.6	3585.4	1939.9	13.5	6.4	11.1	12.2	182.2	260.2	237	117.1	2895.2	295.4	11500

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<i>Actinia</i> sp.							1					1				2
<i>Aglaphanus dibranchis</i>		2		1	3		2	2	1	1	4		1	2		19
<i>Alpheus</i> sp.							3	5						2		10
<i>Amphinome rostrata</i>	1															1
<i>Amphioplus laevis</i>	1		1	2						1		1	1		2	9
<i>Ancistrosyllis pilargiformis</i>					2											2
<i>Apionsoma trichocephalus</i>								1								1
<i>Aricidea fragilis</i>								1								1
<i>Bhawania goodei</i>								1								1
<i>Callianassa</i> sp.																0
<i>Capitella capitata</i>																0
<i>Charybdis hellerii</i>								1						1	1	3
<i>Cirratulus</i> sp.						1				1					1	3
<i>Corophium</i> sp.							2	9	1		4	1		1	7	25
<i>Cossurella dimorpha</i>																0
<i>Cycladicama</i> sp.								1								1
<i>Dasybranchus caducus</i>																0
<i>Euclymene</i> sp.							1									1
<i>Eucrate haswelli</i>								2								2
<i>Eocuma lata</i>	1															1
<i>Eumice indica</i>					1		31	21						1		54
<i>Gattyana</i> sp.								1								1
<i>Glycera onomichiensis</i>							3	9							7	19
<i>Goniada</i> sp.					1			1		1						3
<i>Heterospio sinica</i>									1	1						2
<i>Hexapus granuliforus</i>				1	1											2
<i>Laonice cirrata</i>													1		1	2
<i>Leocrates chinensis</i>				1									1	1		3
<i>Lepidonotus</i> sp.			1					3								4
<i>Loimia medusa</i>															1	1
<i>Lucifer</i> sp.	1															1
<i>Lumbrineris latreilli</i>																0
<i>Lumbrineris</i> sp.			1	1						1	2	1	1	3	2	12
<i>Lygdamis giardi</i>								1								1
<i>Macoma candida</i>																0
<i>Magelona pacifica</i>								1							2	3
<i>Marphysa sanguinea</i>								1								1
<i>Mediomastus californiensis</i>	10	5	2	8	9		4	11	3	2	3		1	2	2	62
<i>Melinna</i> sp.												1				1
<i>Metapenaeus</i> sp.																0
<i>Micropodarke dubia</i>					1			1	4							6
<i>Moerella cutler</i>															1	1
<i>Murex</i> sp.					1											1
<i>Nassarius sumninctus</i>																0
<i>Nassarius</i> sp.																0
<i>Nectoneanthes ijimai</i>								1								1
<i>Neoxenophthalmus obscurus</i>	3	12	2	4	8			4								33
<i>Nereis</i> sp.																0
<i>Notomastus latericens</i>								1	2			1	1	4		9
<i>Onuphis eremita</i>								1								1
<i>Ophelina grandis</i>					1											1
<i>Ophiodromus obscura</i>								2								2
<i>Paphia undulata</i>			2										1			3
<i>Paralacydonia paradoxa</i>									1							1
<i>Paramphicondrius</i> sp.								1								1
<i>Paranursia abbreviata</i>								1								1
<i>Paraprionospio pinnata</i>				2								1			6	9
<i>Phascolosoma</i> sp.								1								1
<i>Phyllocoe (A.) chinensis</i>								1	3							4
<i>Poecilochaetus serpens</i>								2					1			3
<i>Polydora</i> sp.																0
<i>Potamilla</i> sp.									1							1
<i>Prionospio cirrifera</i>	1	1	1							1	3		1	1	4	13
<i>Prionospio queenslandica</i>		1			1			14	23	1		3	1		11	55
<i>Processa</i> sp.																0
<i>Protankyra</i> sp.																0
<i>Pseudopolydora</i> sp.																0
<i>Pseudopythina maipoensis</i>																0
<i>Raphidopus ciliatus</i>								1	2							3
<i>Ruditapes philippinarum</i>									2							2
<i>Schistomeringos</i> sp.														1		1
<i>Scoloplos</i> sp.					1				3			1				5
<i>Syllis</i> sp.								1		1						2
<i>Sigambra hanaokai</i>	3	1		2	2	4				1	5	4	3	1	1	27
<i>Siphopatella</i> sp.								3								3
<i>Solen</i> sp.																0
<i>Sternaspis sculata</i>				1												1
<i>Sthenolepis japonica</i>								1								1
<i>Stylochus</i> sp.	1															1
<i>Temnopleurus</i> sp.		2				1		1								4
<i>Terebellides stroemii</i>																0
<i>Thalassema sabinum</i>								1								1
<i>Theora lata</i>					1											1
<i>Trigonothracia jinxiingae</i>															1	1
<i>Typhlocarcinus villosa</i>								1					1		2	4
<i>Virgularia gustaviana</i>					1											1
Total	22	24	10	23	34	6	79	120	10	16	20	15	9	19	52	459

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Biomass (mg)	HKS1	HKS2	HKS3	HKS4	HKS5	NLHC1	NLHC2	NLHC3	NLHC4	NLHC5	THW1	THW2	THW3	THW4	THW5	Total
<i>Actinia</i> sp.							8.1									72.3
<i>Aglaophamus dibranchis</i>		15.1		4.3	22.1		1.6	1.3	28.7	0.4	7.4		64.2	0.6	5.6	87.1
<i>Alpheus</i> sp.							296.8	364.6						62.7		724.1
<i>Amphinome rostrata</i>	4.7															4.7
<i>Amphioplus laevis</i>	33		2.7	13.5						0.6		106.2	10.7		165.2	331.9
<i>Ancistrosyllis pilargiformis</i>					0.5											0.5
<i>Apionsoma trichocephalus</i>								1.3								1.3
<i>Aricidea fragilis</i>								0.5								0.5
<i>Bhawania goodei</i>								2								2
<i>Callianassa</i> sp.																0
<i>Capitella capitata</i>																0
<i>Charybdis hellerii</i>								416.4						99	5.4	520.8
<i>Cirratulus</i> sp.						0.3				0.3					0.5	1.1
<i>Corophium</i> sp.							2.8	7.3	0.4		2.3	0.7		1.1	5.5	20.1
<i>Cossurella dimorpha</i>																0
<i>Cycladicama</i> sp.								485.2								485.2
<i>Dasybranchus caducus</i>																0
<i>Euclymene</i> sp.							1.9									1.9
<i>Eucrate haswelli</i>								110.2								110.2
<i>Eocuma lata</i>	0.3															0.3
<i>Eumice indica</i>				14.8			295.9	419.9						1.3		731.9
<i>Gattyana</i> sp.								0.5								0.5
<i>Glycera onomichiensis</i>							29.5	127.3							106.7	263.5
<i>Goniada</i> sp.				1.9			1.1			0.5						3.5
<i>Heterospio sinica</i>									0.7	0.9						1.6
<i>Hexapus granuliforus</i>				231.2	66.5											297.7
<i>Laonice cirrata</i>													5.8		0.9	6.7
<i>Leocrates chinensis</i>				5.8										4.9	4.7	15.4
<i>Lepidonotus</i> sp.			1.1					24.8								25.9
<i>Loimia medusa</i>															35.6	35.6
<i>Lucifer</i> sp.	0.5															0.5
<i>Lumbrineris latreilli</i>																0
<i>Lumbrineris</i> sp.			146.3	26.6						43.5	6.1	11.8	2.7	8.4	22.1	267.5
<i>Lygdami</i> giardi								34.5								34.5
<i>Macoma candida</i>																0
<i>Magelona pacifica</i>							0.8								3.4	4.2
<i>Marphysa sanguinea</i>								32.9								32.9
<i>Mediomastus californiensis</i>	29.3	5.8	1.5	15	25.9		16.2	52.9	8.2	3	5.9		1.5	1.7	2.2	169.1
<i>Melinna</i> sp.												33.4				33.4
<i>Metapenaeus</i> sp.																0
<i>Micropodarke dubia</i>				0.5			0.5	4.6								5.6
<i>Moerella cutler</i>															11.2	11.2
<i>Murex</i> sp.				8266.7												8266.7
<i>Nassarius sumninctus</i>																0
<i>Nassarius</i> sp.																0
<i>Nectoneanthes ijimai</i>							1.3									1.3
<i>Neoxenopthalmus obscurus</i>	314.7	1275.9	362.4	681.3	1304.8			3194.5								7133.6
<i>Nereis</i> sp.																0
<i>Notomastus latericens</i>							153.7	86				46.7	51.4	16.8		354.6
<i>Onuphis eremita</i>							1									1
<i>Ophelina grandis</i>					125.5											125.5
<i>Ophiodromus obscura</i>								12.9								12.9
<i>Paphia undulata</i>			7401.1									1125.2				8526.3
<i>Paralacydonia paradoxa</i>								0.6								0.6
<i>Paramphicondrius</i> sp.							0.4									0.4
<i>Paramursia abbreviata</i>							17.3									17.3
<i>Paraprionospio pinnata</i>				7.3								4.2			29.1	40.6
<i>Phascolosoma</i> sp.							10.7									10.7
<i>Phyllococe (A.) chinensis</i>							1.7	7.8								9.5
<i>Poecilochaetus serpens</i>								6.6				5.6				12.2
<i>Polydora</i> sp.																0
<i>Potamilla</i> sp.								7								7
<i>Prionospio cirrifera</i>	0.3	0.9	0.5						0.8	1.5		0.5	0.5		1.2	6.2
<i>Prionospio queenslandica</i>		3.4			2.2		56.6	57.5	2.2		2.5	5.2			123.9	253.5
<i>Processa</i> sp.																0
<i>Protankyra</i> sp.																0
<i>Pseudopolydora</i> sp.																0
<i>Pseudopythina maipoensis</i>																0
<i>Raphidopus ciliatus</i>							22.3	72.8								95.1
<i>Ruditapes philippinarum</i>								405.8								405.8
<i>Schistomeringos</i> sp.														0.8		0.8
<i>Scoloplos</i> sp.				0.3				1.7				7				9
<i>Syllis</i> sp.							0.7		1.1							1.8
<i>Sigambra hanaokai</i>	3.1	0.8		3.8	1.3	1.6			1.2	2	2.3	2.2	0.8	1.5		20.6
<i>Siphopatella</i> sp.							58.9									58.9
<i>Solen</i> sp.																0
<i>Sternaspis sculata</i>				8.9												8.9
<i>Sthenolepis japonica</i>							22.2									22.2
<i>Stylochus</i> sp.	14															14
<i>Temnopleurus</i> sp.		45.1				51.5		5.4								102
<i>Terebellides stroemii</i>																0
<i>Thalassema sabinum</i>							604.9									604.9
<i>Theora lata</i>				3.1												3.1
<i>Trigonothracia jinxingae</i>															8.6	8.6
<i>Typhlocarcinus villosa</i>							170.3						28.3		432	630.6
<i>Virgularia gustaviana</i>					4.4											4.4
Total	399.9	1347	7915.6	997.7	9840.5	53.4	1777.2	5944.8	43.3	52.7	26.5	1412.9	102.3	203.8	958.2	31076