

Annex C Estuarine Macroinvertebrate Recorded during Stream/estuarine Macroinvertebrate Survey

Phylum	Order	Family	Scientific Name	Conservation Status	Dry Season							Wet Season						
					TH	TC	ST	SLW	HHW	SW	Total	TH	TC	ST	SLW	HHW	SW	Total
Cnidaria	Cerintharia	Cerianthidae	<i>Cerianthus</i> sp.		3	11		5	14		33	12	27		17	25	6	87
Cnidaria	-	-	Unidentified Cnidarian		1	19		33	15	68	136	7	30		41	14	57	149
Platyhelminthes	-	-	<i>Flatworm</i> spp.			6		3	1		10	8	21		12	9	7	57
Annelida	-	-	Unidentified Anneild		1						1							
Annelida	Canalipalpata	Serpulidae	<i>Hydroides</i> sp.		63	58	12	26	36	30	225			50	71	33	76	230
Annelida	Phyllodocida	-	<i>Dendronereids</i> sp.							1	1							
Annelida	Phyllodocida	Nereididae	<i>Dendronereides</i> sp.			12	1	2	1	2	18	21	34	3	15	15	16	104
Annelida	Phyllodocida	Nereididae	<i>Simplisetia erythraeensis</i>		1					2	3							
Annelida	-	Capitellidae	<i>Capitella capitata</i>		28	31		2	2		63							
Sipuncula	Golfingiida	Sipunculidae	<i>Sipunculus nudus</i>		2	5	11	14	2	19	53	15	14	29	59	26	34	177
Echiura	Echiurida	Echiuridae	<i>Ochetostoma erythrogrammon</i>			22		4		1	27	4	7	10	23		7	51
Mollusca	-	Nacellidae	<i>Cellana</i> sp.		4			1			5		94		9			103
Mollusca	-	Lottiidae	<i>Patelloida pygmaea</i>				40	4	19		63			98	11	22	17	148
Mollusca	-	Tegulidae	<i>Tectus pyramis</i>				20				20			11			3	14
Mollusca	-	Trochidae	<i>Monodonta labio</i>		17	348	13	258	258	78	972		387	63	520	299	279	1548
Mollusca	Cycloneritimorpha	Neritidae	<i>Clithon corona</i>	IUCN: Least Concern						343	343						503	503
Mollusca	Cycloneritimorpha	Neritidae	<i>Clithon oualaniense</i>	IUCN: Least Concern	22	15		37	40	464	578		45		62	51	513	671
Mollusca	Cycloneritimorpha	Neritidae	<i>Nerita albicilla</i>		51	49		167	33	170	470	16	143		298	94	137	688
Mollusca	Cycloneritimorpha	Neritidae	<i>Nerita balteata</i>	IUCN: Least Concern	45	33		191	51	48	368	13	109	21	183	47	74	447
Mollusca	Cycloneritimorpha	Neritidae	<i>Nerita yoldii</i>				20				20			26				26
Mollusca	Littorinimorpha	Littorinidae	<i>Littoraria arduiniana</i>					1	2		3				7	9		16
Mollusca	Littorinimorpha	Littorinidae	<i>Nodilittorina pyramidalis</i>							1	1						7	7
Mollusca	Caenogastropoda	Planaxidae	<i>Planaxis sulcatus</i>		3	165		143	11	149	471		121		133	56	148	458
Mollusca	Caenogastropoda	Potamididae	<i>Cerithidea cingulata</i>		1	24					25		80					80
Mollusca	Caenogastropoda	Potamididae	<i>Cerithidea djadjariensis</i>				500				500			744				744
Mollusca	Caenogastropoda	Potamididae	<i>Cerithidea rhizophorarum</i>		7	15				8	30	62	18				15	95
Mollusca	Caenogastropoda	Potamididae	<i>Terebralia sulcata</i>		27	6					33	119	17					136
Mollusca	Caenogastropoda	Batillariidae	<i>Batillaria multiformis</i>		298	81	21	91	271	148	910	424	150	103	210	223	324	1434
Mollusca	Caenogastropoda	Batillariidae	<i>Batillaria sordida</i>			3					3		3					3
Mollusca	Caenogastropoda	Batillariidae	<i>Batillaria zonalis</i>		2493	595	140	232	60	22	3542	1690	1406	297	272	39	33	3737
Mollusca	Littorinimorpha	Naticidae	<i>Polinices mammilla</i>		1						1		2					2
Mollusca	Neogastropoda	Muricidae	<i>Drupella margariticola</i>		3						3		3					3
Mollusca	Neogastropoda	Muricidae	<i>Thais clavigera</i>			7		63		13	83		4		76		43	123
Mollusca	Neogastropoda	Nassariidae	<i>Nassarius festivus</i>		100	2		58			160		90		55		8	153
Mollusca	[unassigned] Pulmonata	Ellobiidae	<i>Melampus</i> sp.		12					13	25						6	6
Mollusca	Systellommatophora	Onchidiidae	<i>Onchidium hongkongensis</i>		19	14	3		1	1	38	56	27	47		5	4	139
Mollusca	Sepiida	Sepiidae	<i>Euprymna berryi</i>	IUCN: Data Deficient		1		1			2	2	2		3			7
Mollusca	Arcoida	Arcidae	<i>Anadara cornea</i>		1	3			1		5		5			6		11
Mollusca	Mytiloidea	Mytilidae	<i>Brachidontes pharaonis</i>							100	100						100	100
Mollusca	Mytiloidea	Mytilidae	<i>Perna viridis</i>		1	4		18	1	46	70		12		27	7	111	157
Mollusca	Mytiloidea	Mytilidae	<i>Septifer virgatus</i>		138	25		157	29	55	404	27	135		163	84	70	479
Mollusca	Pterioidea	Pteriidae	<i>Isognomon isognomum</i>		19	7		22	3	2	53	24	24		37	13	14	112
Mollusca	Ostreoida	Ostreidae	<i>Saccostrea cucullata</i>		766	839	32	1367	730	2827	6561	955	717	94	1210	791	2000	5767
Mollusca	Veneroida	Trapezidae	<i>Trapezium liratum</i>		3						3		3					3
Mollusca	Veneroida	Corbiculidae	<i>Geloina erosa</i>		1						1	4						4
Mollusca	Veneroida	Veneridae	<i>Circe sinensis</i>			1					1							
Mollusca	-	-	Unidentified Molluscs		3						3							
Mollusca	Sepiida	Sepiidae	<i>Euprymna berryi</i>	IUCN: Data Deficient		1		1			2	2	2		3			7
Arthropoda	Scalpelliformes	Pollicipedidae	<i>Capitulum mitella</i>		2						2	8	6			12	16	42
Arthropoda	Sessilia	Balanidae	<i>Amphibalanus amphitrite</i>		739	542		315	134	569	2299	285	350		390	127	339	1491

Phylum	Order	Family	Scientific Name	Conservation Status	Dry Season							Wet Season							
					TH	TC	ST	SLW	HHW	SW	Total	TH	TC	ST	SLW	HHW	SW	Total	
Arthropoda	Sessilia	Tetraclitidae	<i>Tetraclita japonica</i>		1	1						2							
Arthropoda	-	-	Unidentified Gammaridea		116	516		89	43	545	1309	466	313		237	251	519	1786	
Arthropoda	Isopoda	Ligiidae	<i>Ligia exotica</i>		49				4	3	56	90	32			86	35	243	
Arthropoda	Decapoda	Penaeeidae	<i>Metapenaeus ensis</i>	China Species Red List: Vulnerable	1						1	5	3		3		9	20	
Arthropoda	Decapoda	Alpheidae	<i>Alpheus sp.</i>			4		1	1	5	11	14	13		18	22	42	109	
Arthropoda	Decapoda	Alpheidae	<i>Alpheus lobidens</i>			15		2	2	1	20				9	7	5	21	
Arthropoda	Decapoda	Palaemonidae	<i>Macrobrachium spp.</i>		63	11	3	18		12	107	21	12	16	21		40	110	
Arthropoda	Decapoda	Upogebiidae	<i>Upogebia sp.</i>			1		11			12		2	1	14			17	
Arthropoda	Decapoda	Porcellanidae	<i>Petrolistes japonicus</i>				1				1			4		2		6	
Arthropoda	Decapoda	Diogenidae	<i>Clibanarius infraspinus</i>		10	75		20	21	14	140	38	21		36	40	19	154	
Arthropoda	Decapoda	Diogenidae	<i>Clibanarius longitarsus</i>		2	5		12	13	5	37	15	12	2	27	23	22	101	
Arthropoda	Decapoda	Diogenidae	<i>Diogenes spinifrons</i>				1			1	2			2			3	5	
Arthropoda	Decapoda	Paguridae	<i>Diogenes dubius</i>		2	3		2	1		8		8		12	7	5	32	
Arthropoda	Decapoda	Leucosiidae	<i>Pyrhila carinata</i>	China Species Red List: Least Concern	1	1					2								
Arthropoda	Decapoda	Portunidae	<i>Portunus pelagicus</i>	China Species Red List: Least Concern				1	1		2				6	6		12	
Arthropoda	Decapoda	Portunidae	<i>Scylla paramamosain</i>		1				1	5	7		4	6		2	10	22	
Arthropoda	Decapoda	Portunidae	<i>Thalamita crenata</i>	China Species Red List: Least Concern				1			1				4			4	
Arthropoda	Decapoda	Portunidae	<i>Thalamita danae</i>	China Species Red List: Least Concern				1		1	2				3		4	7	
Arthropoda	Decapoda	Oziidae	<i>Epixanthus frontalis</i>						1		1			19		4		23	
Arthropoda	Decapoda	Grapsidae	<i>Grapsus albolineatus</i>		1			1			2	20	1		2			23	
Arthropoda	Decapoda	Grapsidae	<i>Metopograpsus frontalis</i>		19	26		55	33	58	191	12	47		166	60	85	370	
Arthropoda	Decapoda	Grapsidae	<i>Metopograpsus quadridentatus</i>		1	5		10	1	3	20	8	5		20	8	16	57	
Arthropoda	Decapoda	Grapsidae	<i>Metopograpsus frontalis</i>		19	26		55	33	58	191	12	47		166			225	
Arthropoda	Decapoda	Grapsidae	<i>Metopograpsus quadridentatus</i>		1	5		10	1	3	20	8	5		20			33	
Arthropoda	Decapoda	Sesarmidae	<i>Clistocoeloma sinensis</i>					2			2				8			8	
Arthropoda	Decapoda	Sesarmidae	<i>Episesarma versicolor</i>					1			1				1			1	
Arthropoda	Decapoda	Sesarmidae	<i>Parasesarma affinis</i>							40	40						41		
Arthropoda	Decapoda	Sesarmidae	<i>Parasesarma pictum</i>		3				1		4		8					8	
Arthropoda	Decapoda	Sesarmidae	<i>Parasesarma plicata</i>		5	4		2	9		20		20		9	5		34	
Arthropoda	Decapoda	Sesarmidae	<i>Perisesarma bidens</i>		102	41		1	11	9	164	89	77		3	28	11	208	
Arthropoda	Decapoda	Sesarmidae	<i>Perisesarma fasciata</i>			10					10					24			
Arthropoda	Decapoda	Varunidae	<i>Chasmagnathus convexus</i>		1						1	9						9	
Arthropoda	Decapoda	Varunidae	<i>Metaplex elegans</i>			1					1								
Arthropoda	Decapoda	Varunidae	<i>Metaplex longipes</i>		1	8		1			10	11	8		6			25	
Arthropoda	Decapoda	Varunidae	<i>Gaetice depressus</i>	China Species Red List: Least Concern	14	92		96	94	56	352	13	81		131	197	88	510	
Arthropoda	Decapoda	Varunidae	<i>Eriocheir japonica</i>			4	1	11		30	46	12	9	13	15		16	65	
Arthropoda	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>		34	7		145		16	202	26	31		106		21	184	
Arthropoda	Decapoda	Varunidae	<i>Hemigrapsus sanguineus</i>		5			1			6		4	1	5			10	
Arthropoda	Decapoda	Dotillidae	<i>Tmethypocoelis ceratophora</i>					2	2	1	5				2	5	5	12	
Arthropoda	Decapoda	Ocypodidae	<i>Uca arcuata</i>		20	8			6		34	41	9			5		55	
Arthropoda	Decapoda	Ocypodidae	<i>Uca borealis</i>		1						1	18						18	
Arthropoda	Decapoda	Ocypodidae	<i>Uca crassipes</i>		12	3			8		23	27	9			21		57	
Arthropoda	Decapoda	Ocypodidae	<i>Uca lactea</i>		31	43			22		96	52	24			24		100	
Arthropoda	Hemiptera	Gerridae	<i>Limnogonus fossarum</i>			3				6	9	4					77	81	
Arthropoda	Hemiptera	Gerridae	<i>Metrocoris lituratus</i>		7					17	24	78					103	181	
Echinodermata	-	-	Unidentified Echinoderm																
Total No. of Species					61	57	16	53	45	48	95	45	59	23	53	44	52	84	
Grand Total					5398	3862	819	3767	2024	6069	21939	4843	4893	1660	4957	2834	6143	25265	

Phylum	Order	Family	Scientific Name	Conservation Status	Dry Season							Wet Season						
					TH	TC	ST	SLW	HHW	SW	Total	TH	TC	ST	SLW	HHW	SW	Total
				Species Diversity Index (H')	2.03	2.59	1.41	2.55	2.38	2.14		2.31	2.75	1.96	2.92	2.78	2.70	
				Speceis Evenness Index (J')	0.49	0.64	0.51	0.64	0.63	0.55		0.61	0.68	0.63	0.73	0.73	0.68	

TC = Tung Chung, ST = San Tau, TH = Tai Ho, SW = Sham Wat, SLW = Sha Lo Wan and HHW = Hau Hok Wan