



ANNEX J

SOFT SHORE ECOLOGY



ANNEX J1

MONITORING SCHEDULE

Tung Chung New Town Extension (East)
Post-Construction Soft Shore Ecological Monitoring Schedule (June 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun
8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun
	Soft Shore Monitoring at Tai Ho Bay	Soft Shore Monitoring at Tung Chung Bay				
15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun
22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun
	Soft Shore Monitoring at Tung Chung Bay	Soft Shore Monitoring at Tung Chung Bay				
29-Jun	30-Jun					



ANNEX J2

MONITORING RESULTS

Table J2.1 Results for Horseshoe Crabs during Qualitative Walk-through Surveys in June 2025

Sighting #	Species	Prosomal Width (cm)	Total Length (cm)
Monitoring Date: 9 June 2025			
Monitoring Station: THW			
1	<i>Tachypleus tridentatus</i>	1.1	1.7
2	<i>Tachypleus tridentatus</i>	0.9	1.1
3	<i>Tachypleus tridentatus</i>	0.8	1.0
4	<i>Tachypleus tridentatus</i>	1.2	1.9
5	<i>Tachypleus tridentatus</i>	0.9	1.2
6	<i>Tachypleus tridentatus</i>	0.7	1.0
7	<i>Tachypleus tridentatus</i>	0.8	1.0
8	<i>Tachypleus tridentatus</i>	0.9	1.2
9	<i>Tachypleus tridentatus</i>	0.9	1.0
10	<i>Tachypleus tridentatus</i>	0.8	1.1
11	<i>Tachypleus tridentatus</i>	0.8	1.0
12	<i>Tachypleus tridentatus</i>	1.1	1.8
13	<i>Tachypleus tridentatus</i>	0.8	1.0
14	<i>Tachypleus tridentatus</i>	0.9	1.1
15	<i>Tachypleus tridentatus</i>	1.5	2.8
16	<i>Tachypleus tridentatus</i>	1.5	2.7
17	<i>Tachypleus tridentatus</i>	1.1	1.8
18	<i>Tachypleus tridentatus</i>	1.1	1.9
19	<i>Tachypleus tridentatus</i>	1.0	1.7
20	<i>Tachypleus tridentatus</i>	0.8	1.1
21	<i>Tachypleus tridentatus</i>	1.1	1.8
22	<i>Tachypleus tridentatus</i>	0.8	1.0
23	<i>Tachypleus tridentatus</i>	1.0	1.7
24	<i>Tachypleus tridentatus</i>	1.1	2.0
25	<i>Tachypleus tridentatus</i>	0.9	1.1
26	<i>Tachypleus tridentatus</i>	1.0	1.6
27	<i>Tachypleus tridentatus</i>	0.8	1.0
28	<i>Tachypleus tridentatus</i>	0.8	1.1
29	<i>Tachypleus tridentatus</i>	0.8	1.1
30	Unidentified ^(a)	0.6	0.7
31	<i>Tachypleus tridentatus</i>	0.8	1.1
32	<i>Tachypleus tridentatus</i>	0.9	1.1
33	<i>Tachypleus tridentatus</i>	1.1	1.8
34	<i>Tachypleus tridentatus</i>	1.1	1.9
35	<i>Tachypleus tridentatus</i>	1.0	1.2
36	<i>Tachypleus tridentatus</i>	0.9	1.0
37	<i>Tachypleus tridentatus</i>	0.8	1.0
38	<i>Tachypleus tridentatus</i>	1.1	1.8
39	<i>Tachypleus tridentatus</i>	4.6	7.6
40	<i>Tachypleus tridentatus</i>	2.0	3.5
41	<i>Tachypleus tridentatus</i>	1.0	1.8
42	<i>Tachypleus tridentatus</i>	1.2	3.0
43	<i>Tachypleus tridentatus</i>	1.1	2.8
44	<i>Tachypleus tridentatus</i>	1.5	2.5
45	<i>Tachypleus tridentatus</i>	1.2	2.0
46	<i>Tachypleus tridentatus</i>	1.4	2.6
47	<i>Tachypleus tridentatus</i>	0.9	1.1
48	<i>Tachypleus tridentatus</i>	1.1	1.9
49	<i>Tachypleus tridentatus</i>	1.1	1.8
50	<i>Tachypleus tridentatus</i>	1.1	1.9
51	<i>Tachypleus tridentatus</i>	0.7	1.0
52	<i>Tachypleus tridentatus</i>	1.1	2.0
53	<i>Tachypleus tridentatus</i>	0.8	1.0
54	<i>Tachypleus tridentatus</i>	1.0	1.9

55	<i>Tachypleus tridentatus</i>	1.1	1.8
	Mean (Range)	1.1 (0.6 – 4.6)	1.7 (0.7 – 7.6)

Monitoring Date: 10 June 2025

Monitoring Station: TCB3

1	<i>Tachypleus tridentatus</i>	2.2	4.0
2	<i>Tachypleus tridentatus</i>	1.7	3.6
3	<i>Tachypleus tridentatus</i>	1.5	2.7
4	<i>Tachypleus tridentatus</i>	1.6	2.7
5	<i>Tachypleus tridentatus</i>	0.8	1.4
6	<i>Tachypleus tridentatus</i>	1.4	2.3
7	<i>Tachypleus tridentatus</i>	1.5	2.5
8	<i>Tachypleus tridentatus</i>	2.2	3.9
9	<i>Tachypleus tridentatus</i>	1.3	1.9
10	<i>Tachypleus tridentatus</i>	3.9	7.1
11	<i>Tachypleus tridentatus</i>	1.7	2.6
12	<i>Tachypleus tridentatus</i>	0.9	1.2
13	<i>Tachypleus tridentatus</i>	1.2	2.0
14	<i>Tachypleus tridentatus</i>	1.2	1.9
15	<i>Tachypleus tridentatus</i>	0.8	1.0
16	<i>Tachypleus tridentatus</i>	0.8	1.0
17	<i>Tachypleus tridentatus</i>	0.8	1.1
18	<i>Tachypleus tridentatus</i>	0.9	1.2
19	<i>Tachypleus tridentatus</i>	1.1	1.8
	Mean (Range)	1.4 (0.8 – 3.9)	2.4 (1.0 – 7.1)

Monitoring Date: 24 June 2025

Monitoring Station: TCB2

1	<i>Tachypleus tridentatus</i>	3.5	7.0
2	<i>Tachypleus tridentatus</i>	2.2	4.0
3	<i>Tachypleus tridentatus</i>	1.6	2.7
4	<i>Tachypleus tridentatus</i>	1.6	3.0
5	<i>Tachypleus tridentatus</i>	1.5	2.7
	Mean (Range)	2.1 (1.5 – 3.5)	3.9 (2.7 – 7.0)

Note:

- a) One (1) horseshoe crab individual at THW was recorded with prosomal width of 0.6cm and total length of 0.7cm. This individual was considered to be too small for species identification by the naked eye and were recorded as unidentified species.

Table J2.2 Results for Seagrass during Qualitative Walk-through Surveys in June 2025

Sighting #	Species	Area (m ²)	Area Coverage (%)	Seagrass Area (m ²)
Monitoring Date: 10 June 2025				
Monitoring Station: TCB3				
1	<i>Halophila ovalis</i>	2.0	25%	0.5

Table J2.3 *Results for Other Intertidal Soft Shore Communities during Qualitative Walk-through Surveys in June 2025*

Monitoring Station	Shore Height *	No. of Species
TCB1	H	20
	M	25
	L	23
	Overall	37
TCB2	H	22
	M	17
	L	16
	Overall	24
TCB3	H	23
	M	22
	L	24
	Overall	36
THW	H	22
	M	22
	L	17
	Overall	30

* H: +2mCD; M: +1.5mCD; L: +1mCD

Table J2.4 Results for Other Intertidal Soft Shore Communities during Quantitative Transect Surveys in June 2025

Monitoring Station	Shore Height *	Top Three Dominant Species	Density (ind. / m ²)
TCB1	H	1 <i>Cerithidea diadjariensis</i>	379.2
		2 <i>Batillaria multiformis</i>	129.6
		3 <i>Cerithidea cingulata</i>	39.2
	M	1 <i>Cerithidea cingulata</i>	164.8
		2 <i>Cerithidea diadjariensis</i>	156.8
		3 <i>Batillaria multiformis</i>	100.8
	L	1 <i>Batillaria zonalis</i>	36.0
		2 <i>Barbatia virescens</i>	7.2
		3 <i>Lunella coronata</i>	4.0
TCB2	H	1 <i>Cerithidea diadjariensis</i>	93.6
		2 <i>Cerithidea cingulata</i>	9.6
		3 <i>Batillaria zonalis</i>	3.2
	M	1 <i>Cerithidea diadjariensis</i>	116.0
		2 <i>Cerithidea cingulata</i>	63.2
		3 <i>Batillaria zonalis</i>	1.6
	L	1 <i>Cerithidea cingulata</i>	22.4
		2 <i>Cerithidea diadjariensis</i>	20.0
		3 <i>Batillaria zonalis</i>	4.8
TCB3	H	1 <i>Batillaria zonalis</i>	1883.2
		2 <i>Batillaria multiformis</i>	1241.6
		3 <i>Nassarius festivus</i>	542.4
	M	1 <i>Batillaria zonalis</i>	383.2
		2 <i>Batillaria multiformis</i>	193.6
		3 <i>Cerithidea cingulata</i>	113.6
	L	1 <i>Cerithidea diadjariensis</i>	111.2
		2 <i>Batillaria zonalis</i>	98.4
		3 <i>Cerithidea cingulata</i>	96.0
THW	H	1 <i>Cerithidea diadjariensis</i>	211.2
		2 <i>Geloina erosa</i>	36.8
		3 <i>Cerithidea cingulata</i>	6.4
	M	1 <i>Cerithidea diadjariensis</i>	418.4
		2 <i>Nassarius festivus</i>	52.0
		3 <i>Geloina erosa</i>	14.4
	L	1 <i>Cerithidea diadjariensis</i>	384.0
		2 <i>Batillaria zonalis</i>	76.0
		3 <i>Cerithidea cingulata</i>	52.0

* H: +2mCD; M: +1.5mCD; L: +1mCD

Group	Species	TCB1			TCB2			TCB3			THW		
		H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)	H (Qual)	M (Qual)	L (Qual)
Algae	<i>Ulva sp.</i>	+						+	+				
Algae	<i>Gelidium sp.</i>		+	+					+	+			
Barnacle	<i>Balanus amphitrite</i>	+		+			+	+		+		+	+
Bivalve	<i>Anomalocardia squamosa</i>			+									
Bivalve	<i>Barbatia virescens</i>		+	++						+			
Bivalve	<i>Coecella chinensis</i>		+	+						+			+
Bivalve	<i>Cyclina sinensis</i>				+		+	+		+		+	
Bivalve	<i>Geloina erosa</i>	+			+	+		+			+++	++	+
Bivalve	<i>Laternula anatina</i>	+										+	+
Bivalve	<i>Saccostrea cucullata</i>	+	++	+++	+	+	++	+	++	+++	+	++	++
Bivalve	<i>Septifer virgatus</i>			+					+	+		+	
Crab	<i>Macrophthalmus sp.</i>	+	+					+		+			
Crab	<i>Metapograpus frontalis</i>		+		+								
Crab	<i>Metapograpus quadridentatus</i>		+	+	+	+	+		+	+	+		+
Crab	<i>Parasesarma pictum</i>				+	+	+	+			+		
Crab	<i>Perisesarma bidens</i>										+++		
Crab	<i>Portunus pelagicus</i>			+									
Crab	<i>Uca arcuata</i>		+		++	+	+	+			+	+	+
Crab	<i>Uca borealis</i>			+	+	+	+++	+			+	+	+
Crab	<i>Uca lactea</i>	++	+	+	+	+	+	+	++		+++	+	
Fish	<i>Periophthalmus modestus</i>	+	+	+	++	+	+	+	+	+	+	++	+
Gastropod	<i>Batillaria multiformis</i>	+++	++	+	+	+	+	+++	+++	+++	+	+	+
Gastropod	<i>Batillaria zonalis</i>	++	++	++	+	+	+	+++	+++	+++	+	+	+++
Gastropod	<i>Cellana grata</i>				+				+				
Gastropod	<i>Cellana toreuma</i>		+						+				
Gastropod	<i>Cerithidea cingulata</i>	+++	+++	+	+	++	++	+++	+++	+++	+	+	+++
Gastropod	<i>Cerithidea diadjarimensis</i>	+++	+++	+	++	++	++	+++	+++	+++	+++	+++	+++
Gastropod	<i>Cerithidea rhizophorarum</i>							+			++	+	
Gastropod	<i>Clithon spp.</i>	+	+		+	+		++	+	+	+	+	+
Gastropod	<i>Hamineoa sp.</i>	+											
Gastropod	<i>Littoraria ardouiniana</i>	+						+			+		
Gastropod	<i>Littoraria articulata</i>	+	+	+	+	+		+	+	+		+	
Gastropod	<i>Littoraria melanostoma</i>	+						+			+		
Gastropod	<i>Lunella coronata</i>		+	+			+		+	+			
Gastropod	<i>Monodonta labio</i>	+	++	+	++	+		+	++	++			
Gastropod	<i>Nassarius festivus</i>							+++	++		+	++	+++
Gastropod	<i>Nerita albicilla</i>		+	+	+	+	+		+	+		+	+
Gastropod	<i>Nerita polita</i>		+		+	+	+	+	+	+		+	+
Gastropod	<i>Terebralia palustris</i>										++	+	
Gastropod	<i>Terebralia sulcata</i>				+						+++	+	
Gastropod	<i>Thais clavigera</i>		+							+			
Hermit Crab	<i>Clibanarius sp.</i>	+	+								+		
Hermit Crab	<i>Diogenes sp.</i>			+					+	+			
Horseshoe Crab	<i>Tachypleus tridentatus</i>				+			+			+	+	
Horseshoe Crab	Unidentified sp.							+			+		
Seagrass	<i>Halophila ovalis</i>							+					
Sea Slater	<i>Ligia oceanica</i>				+++								
Seaslug	<i>Onchidium sp.</i>										++		
Worm	<i>Sipunculus sp.</i>	+	+	+					+	+			
Worm	Ribbon Worm sp.		+							+			

Remark: '+' denotes the species was relatively uncommon at the area;
 '++' denotes the species was relatively common at the area;
 '+++' denotes the species was relatively abundant at the area.

Group	Species	TCB1																	
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%						0%
Bivalve	<i>Anomalocardia squamosa</i>						0						0				3		2.4
Bivalve	<i>Barbatia virescens</i>						0			2	1		2.4	4		1	3	1	7.2
Bivalve	<i>Coecella chinensis</i>						0					1	0.8			1			0.8
Bivalve	<i>Cyclina sinensis</i>						0						0					1	0.8
Bivalve	<i>Geloina erosa</i>			1		1	1.6						0						0
Bivalve	<i>Laternula anatina</i>			1			0.8						0						0
Bivalve	<i>Saccostrea cucullata</i>	<5%				<5%	0%		10%	5%	<5%	<5%	3%	10%	10%	25%	5%	10%	12%
Bivalve	<i>Septifer virgatus</i>						0%						0%	<5%		<5%			<5%
Crab	<i>Macrophthalmus sp.</i>						0	1					0.8						0
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>						0						0						0
Crab	<i>Uca lactea</i>					1	0.8						0						0
Gastropod	<i>Batillaria multiformis</i>	32	7	2	101	20	129.6		4	8	28	86	100.8		2				1.6
Gastropod	<i>Batillaria zonalis</i>	6	4	4	2	3	15.2	9	6	5	20	2	33.6	11	4	8	8	14	36.0
Gastropod	<i>Cellana toreuma</i>						0			1			0.8						0
Gastropod	<i>Cerithidea cingulata</i>	16	5	20		8	39.2		114		62	30	164.8						0
Gastropod	<i>Cerithidea diadjarimensis</i>	142	56	49	168	59	379.2	48	40	10	54	44	156.8	4	6				8.0
Gastropod	<i>Clithon spp.</i>						0				6	5	8.8						0
Gastropod	<i>Littoraria articulata</i>						0			2			1.6						0
Gastropod	<i>Lunella coronata</i>						0						0			3	2		4.0
Gastropod	<i>Monodonta labio</i>						0		2			4	4.8	2				3	4.0
Gastropod	<i>Nassarius festivus</i>						0						0						0
Gastropod	<i>Nerita polita</i>						0		1				0.8						0
Gastropod	<i>Terebralia palustris</i>						0						0						0
Gastropod	<i>Terebralia sulcata</i>						0						0						0
Gastropod	<i>Thais clavigera</i>						0	1					0.8						0
Hermit Crab	<i>Clibanarius sp.</i>						0						0		1		2		2.4
Hermit Crab	<i>Diogenes sp.</i>						0						0						0
Seaslug	<i>Onchidium sp.</i>						0						0						0
Worm	<i>Sipunculus sp.</i>					1	0.8			1			0.8			1	1		1.6
Worm	Ribbon Worm sp.						0	1				3	3.2						0

Group	Species	TCB2																		
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)	
Algae	<i>Gelidium sp.</i>						0%						0%						0%	
Barnacle	<i>Balanus amphitrite</i>						0%						0				<5%		<5%	
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0	
Bivalve	<i>Barbatia virescens</i>						0						0						0	
Bivalve	<i>Coecella chinensis</i>						0						0						0	
Bivalve	<i>Cyclina sinensis</i>				1		0.8						0				1		0.8	
Bivalve	<i>Geloina erosa</i>			1		1	1.6			1			0.8						0	
Bivalve	<i>Laternula anatina</i>						0						0						0	
Bivalve	<i>Saccostrea cucullata</i>					<5%	<5%						0%	<5%	5%	5%	<5%		2%	
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%	
Crab	<i>Macrophthalmus sp.</i>						0						0						0	
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0	
Crab	<i>Parasesarma pictum</i>					1	0.8						0				1		0.8	
Crab	<i>Uca lactea</i>						0						0						0	
Gastropod	<i>Batillaria multiformis</i>						0						0						0	
Gastropod	<i>Batillaria zonalis</i>		4				3.2		2				2		2	4			4.8	
Gastropod	<i>Cellana toreuma</i>						0						0						0	
Gastropod	<i>Cerithidea cingulata</i>			10		2	9.6	70	3		4	2	63.2	26			2		22.4	
Gastropod	<i>Cerithidea diadjariensis</i>		14	38	19	10	36	93.6	30	15	18	52	30	116.0	8	4	5	2	6	20.0
Gastropod	<i>Clithon spp.</i>						0						0						0	
Gastropod	<i>Littoraria articulata</i>						0						0						0	
Gastropod	<i>Lunella coronata</i>						0						0						0	
Gastropod	<i>Monodonta labio</i>						0						0						0	
Gastropod	<i>Nassarius festivus</i>						0						0						0	
Gastropod	<i>Nerita polita</i>						0						0						0	
Gastropod	<i>Terebralia palustris</i>						0						0						0	
Gastropod	<i>Terebralia sulcata</i>						0						0						0	
Gastropod	<i>Thais clavigera</i>						0						0						0	
Hermit Crab	<i>Clibanarius sp.</i>						0						0						0	
Hermit Crab	<i>Diogenes sp.</i>						0						0						0	
Seaslug	<i>Onchidium sp.</i>						0						0						0	
Worm	<i>Sipunculus sp.</i>						0						0						0	
Worm	Ribbon Worm sp.						0						0						0	

Group	Species	TCB3																		
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)	
Algae	<i>Gelidium sp.</i>						0%						0%	10%			5%	5%		4%
Barnacle	<i>Balanus amphitrite</i>						0%						0%							0
Bivalve	<i>Anomalocardia squamosa</i>						0						0							0
Bivalve	<i>Barbatia virescens</i>						0						0		3				2	4
Bivalve	<i>Coecella chinensis</i>						0						0		1			1		1.6
Bivalve	<i>Cyclina sinensis</i>			1	1		1.6						0					1		0.8
Bivalve	<i>Geloina erosa</i>	1					0.8						0							0
Bivalve	<i>Laternula anatina</i>						0						0							0
Bivalve	<i>Saccostrea cucullata</i>			<5%	5%		4%		<5%	5%			10%	3%	30%		20%	25%		15%
Bivalve	<i>Septifer virgatus</i>						0%						0%							0%
Crab	<i>Macrophthalmus sp.</i>					1	0.8						0				1			0.8
Crab	<i>Metapograpus quadridemtatus</i>						0						0				1	1		1.6
Crab	<i>Parasesarma pictum</i>				1		0.8						0							0
Crab	<i>Uca lactea</i>						0						0							0
Gastropod	<i>Batillaria multiformis</i>	744	28	375	213	192	1241.6	17	24	111	90		193.6	4	56	3	4	6		58.4
Gastropod	<i>Batillaria zonalis</i>	972	12	752	177	441	1883.2	148	36	218	75	2	383.2	18	70	8	11	16		98.4
Gastropod	<i>Cellana toreuma</i>						0						0							0
Gastropod	<i>Cerithidea cingulata</i>	9	10	93	28	36	140.8	18	16	2	50	56	113.6		42		10	68		96.0
Gastropod	<i>Cerithidea diadjarimensis</i>	7	5	6	30	27	60.0	28	34	48	24	4	110.4	24	23	32	48	12		111.2
Gastropod	<i>Clithon spp.</i>	2		11		3	12.8						0							0
Gastropod	<i>Littoraria articulata</i>						0	6		1			5.6		2					1.6
Gastropod	<i>Lunella coronata</i>						0						0							0
Gastropod	<i>Monodonta labio</i>	3					2.4				2		1.6		5			3		6.4
Gastropod	<i>Nassarius festivus</i>	330	20	292	12	24	542.4	6		26			25.6							0
Gastropod	<i>Nerita polita</i>						0						0							0
Gastropod	<i>Terebralia palustris</i>						0						0							0
Gastropod	<i>Terebralia sulcata</i>						0						0							0
Gastropod	<i>Thais clavigera</i>						0						0			1				0.8
Hermit Crab	<i>Clibanarius sp.</i>						0						0							0
Hermit Crab	<i>Diogenes sp.</i>						0		1				0.8				1			0.8
Seaslug	<i>Onchidium sp.</i>						0						0							0
Worm	<i>Sipunculus sp.</i>						0	2					1.6		4					3.2
Worm	Ribbon Worm sp.						0						0	3						2.4

Group	Species	THW																	
		H1	H2	H3	H4	H5	Density (ind. / m ² or % cover)	M1	M2	M3	M4	M5	Density (ind. / m ² or % cover)	L1	L2	L3	L4	L5	Density (ind. / m ² or % cover)
Algae	<i>Gelidium sp.</i>						0%						0%						0%
Barnacle	<i>Balanus amphitrite</i>						0%						0%			<5%	<5%		<5%
Bivalve	<i>Anomalocardia squamosa</i>						0						0						0
Bivalve	<i>Barbatia virescens</i>						0						0						0
Bivalve	<i>Coecella chinensis</i>						0						0			1			0.8
Bivalve	<i>Cyclina sinensis</i>						0			1			0.8						0
Bivalve	<i>Geloina erosa</i>	12	6	9	13	6	36.8	6	6	1	5		14.4			1	1		1.6
Bivalve	<i>Laternula anatina</i>						0	1	1	4			1.2		1				0.2
Bivalve	<i>Saccostrea cucullata</i>				<5%		<5%	5%			5%	10%	4%				10%		2%
Bivalve	<i>Septifer virgatus</i>						0%						0%						0%
Crab	<i>Macrophthalmus sp.</i>						0						0						0
Crab	<i>Metapograpus quadridemtatus</i>						0						0						0
Crab	<i>Parasesarma pictum</i>			1			0.8						0						0
Crab	<i>Uca lactea</i>						0						0						0
Gastropod	<i>Batillaria multiformis</i>						0				6	4	8						0
Gastropod	<i>Batillaria zonalis</i>						0						0	15	22	4	9	45	76.0
Gastropod	<i>Cellana toreuma</i>						0						0						0
Gastropod	<i>Cerithidea cingulata</i>			2	6		6.4	3					2.4	38	7	6	4	10	52.0
Gastropod	<i>Cerithidea diadjariensis</i>	68	63	72	48	13	211.2	120	118	83	108	94	418.4	142	130	21	65	122	384.0
Gastropod	<i>Clithon spp.</i>			2			1.6					1	0.8					6	4.8
Gastropod	<i>Littoraria articulata</i>						0						0						0
Gastropod	<i>Lunella coronata</i>						0						0						0
Gastropod	<i>Monodonta labio</i>						0						0						0
Gastropod	<i>Nassarius festivus</i>				1		0.8		2	5		58	52.0	8	2	30		10	40.0
Gastropod	<i>Nerita polita</i>						0						0						0
Gastropod	<i>Terebralia palustris</i>	3		1	1		4.0						0						0
Gastropod	<i>Terebralia sulcata</i>	1	3	3			5.6						0						0
Gastropod	<i>Thais clavigera</i>						0						0						0
Hermit Crab	<i>Clibanarius sp.</i>						0						0						0
Hermit Crab	<i>Diogenes sp.</i>						0						0						0
Seaslug	<i>Onchidium sp.</i>					4	3.2						0						0
Worm	<i>Sipunculus sp.</i>						0						0						0
Worm	Ribbon Worm sp.						0						0						0



ANNEX J3 EVENT AND ACTION PLAN

Annex J3 **Event and Action Plan for Soft Shore Ecological Monitoring**

Event	Action			
	ET	IEC	ER	Contractor
Density or the distribution pattern of horseshoe crab, seagrass and intertidal soft shore communities recorded in the impact or post-construction monitoring are significantly lower than or different from those recorded in the baseline monitoring.	1. Review historical data to ensure differences are as a result of natural variation or previously observed seasonal differences; 2. Identify source(s) of impact; 3. Inform the IEC, ER and Contractor; 4. Check monitoring data; 5. Discuss additional monitoring and any other measures, with the IEC, ER and Contractor.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make agreement on the measures to be implemented.	1. Inform the ER and in writing; 2. Discuss with the ET and the IEC and propose measures to the IEC and the ER; 3. Implement the agreed measures; 4. Resubmit proposals of remedial actions if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.