

Table 1 Average values of physico-chemical characteristics in (a) rearing water and sediment (\pm SD; n=6), (b) Source water (creek) (\pm SD) during the cultivation of *Penaeus monodon*

Days of Culture (doc)	Water						Sediment		
	Temperature (°C)	Salinity	pH	Eh	Dissolved oxygen (mg L ⁻¹)	Particulate organic carbon (g C m ⁻³)	pH	Eh	Organic matter (mg g ⁻¹ dry sed.)
(a). Shrimp ponds									
0	22.2 \pm 0.4	8.7 \pm 0.2	8.0 \pm 0.1	68.9 \pm 2.1	7.7 \pm 0.0	4.2 \pm 0.1	6.2 \pm 0.2	95.5 \pm 1.1	10.2 \pm 2.0
15	23.3 \pm 0.4	13.2 \pm 0.5	8.0 \pm 0.1	42.2 \pm 13.7	5.3 \pm 0.4	4.6 \pm 0.3	6.7 \pm 0.2	26.8 \pm 2.6	17.6 \pm 3.9
30	28.3 \pm 0.4	13.9 \pm 0.4	8.0 \pm 0.1	104.5 \pm 0.2	4.9 \pm 0.2	4.5 \pm 0.0	6.6 \pm 0.3	100.7 \pm 8.1	22.2 \pm 5.6
45	28.3 \pm 0.4	14.1 \pm 1.2	7.3 \pm 0.2	27.9 \pm 0.2	5.5 \pm 0.2	8.8 \pm 1.7	6.4 \pm 0.2	56.6 \pm 3.5	18.4 \pm 4.4
60	29.0 \pm 0.0	20.4 \pm 1.4	7.7 \pm 0.2	119.4 \pm 4.3	4.7 \pm 0.3	25.2 \pm 8.4	6.6 \pm 0.3	116.7 \pm 2.0	9.6 \pm 6.6
75	29.3 \pm 0.4	23.5 \pm 2.8	7.7 \pm 0.1	142.8 \pm 3.2	5.2 \pm 0.5	12.0 \pm 7.3	6.5 \pm 0.2	127.7 \pm 1.1	46.9 \pm 8.2
90	28.3 \pm 0.4	29.4 \pm 2.8	7.7 \pm 0.1	108.9 \pm 4.1	6.1 \pm 0.7	12.4 \pm 2.3	6.7 \pm 0.1	100.1 \pm 5.1	44.8 \pm 21.5
105	31.3 \pm 0.4	30.5 \pm 0.0	7.5 \pm 0.2	98.6 \pm 0.5	5.4 \pm 0.4	12.7 \pm 3.4	6.4 \pm 0.1	107.1 \pm 10.7	38.8 \pm 14.7
120	31.3 \pm 0.4	28.5 \pm 0.3	7.7 \pm 0.0	100.2 \pm 1.6	4.4 \pm 0.3	22.4 \pm 0.8	6.5 \pm 0.2	122.9 \pm 3.3	58.1 \pm 10.6
135	32.5 \pm 0.4	34.0 \pm 0.2	7.8 \pm 0.1	102.6 \pm 1.8	5.1 \pm 0.3	22.6 \pm 6.0	6.2 \pm 0.3	105.3 \pm 6.9	56.1 \pm 6.7
(b). Source water (creek)									
0	23.0 \pm 0.0	13.2 \pm 0.1	7.5 \pm 0.2	62.9 \pm 12.2	6.2 \pm 1.1	4.8 \pm 0.7	6.5 \pm 0.4	74.3 \pm 12.8	12.2 \pm 1.2
15	24.0 \pm 0.0	13.5 \pm 0.4	7.6 \pm 0.0	28.8 \pm 4.8	4.7 \pm 0.7	6.0 \pm 1.9	7.1 \pm 0.0	42.4 \pm 24.4	8.8 \pm 8.9
30	29.0 \pm 0.0	17.6 \pm 1.5	8.0 \pm 0.0	99.9 \pm 3.4	5.0 \pm 0.4	4.2 \pm 0.2	6.9 \pm 0.1	106.1 \pm 2.0	22.6 \pm 7.1
45	28.0 \pm 0.0	18.4 \pm 1.6	7.5 \pm 0.1	30.2 \pm 3.4	4.8 \pm 0.0	7.7 \pm 3.6	5.8 \pm 0.7	53.2 \pm 9.9	12.6 \pm 3.6
60	29.5 \pm 0.0	23.0 \pm 0.6	7.6 \pm 0.1	113.9 \pm 2.2	4.6 \pm 0.5	24.3 \pm 2.7	6.1 \pm 1.0	107.3 \pm 4.9	47.7 \pm 7.1
75	29.5 \pm 0.0	29.8 \pm 3.9	7.9 \pm 0.1	133.4 \pm 1.9	4.9 \pm 0.6	17.9 \pm 7.0	6.8 \pm 0.0	124.0 \pm 1.8	67.8 \pm 35.5
90	28.2 \pm 0.3	35.0 \pm 0.4	7.8 \pm 0.1	97.3 \pm 2.9	5.1 \pm 0.0	11.9 \pm 4.9	6.6 \pm 0.3	86.1 \pm 4.6	116.8 \pm 1.8
105	31.5 \pm 0.0	30.7 \pm 0.3	7.7 \pm 0.2	96.9 \pm 0.5	6.0 \pm 0.7	7.8 \pm 1.0	6.6 \pm 0.2	96.8 \pm 5.2	50.2 \pm 3.5
120	32.0 \pm 0.0	28.7 \pm 0.8	8.0 \pm 0.2	99.2 \pm 2.7	4.6 \pm 0.5	38.3 \pm 21.0	6.5 \pm 0.2	121.2 \pm 4.4	54.0 \pm 19.5
135	33.5 \pm 0.0	31.0 \pm 0.2	7.9 \pm 0.0	104.6 \pm 3.5	5.2 \pm 0.1	8.6 \pm 2.2	6.4 \pm 0.3	104.1 \pm 4.2	70.3 \pm 3.5