

Appendix E

Baseline Levels of Marine Water Quality at All Stations

Summary of Field Measurement Data

Station		DO-Top (mg/L)	DO-Mid (mg/L)	DO-Bot (mg/L)	DO-Avg (mg/L)	DO%-Top	DO%-Mid	DO%-Bot	pH-Top	pH-Mid	pH-Bot	pH-Avg
SR1	Average	6.67	6.69	6.65	6.67	90.3	90.0	89.8	8.18	8.19	8.20	8.19
	Minimum	5.94	5.86	5.85	5.93	82.5	80.6	80.6	7.95	7.99	7.99	7.98
	Maximum	8.25	8.63	8.09	8.18	96.9	96.4	96.9	8.51	8.48	8.50	8.47
SR2	Average	6.69	6.68	6.67	6.68	90.6	90.4	90.3	8.18	8.20	8.22	8.20
	Minimum	5.93	5.87	5.94	5.97	81.5	81.9	82.2	7.91	7.99	8.00	7.97
	Maximum	8.35	8.28	8.17	8.26	98.5	98.5	98.2	8.49	8.46	8.55	8.46
SR3	Average	6.90	6.89	6.89	6.89	93.4	93.2	93.0	8.20	8.22	8.22	8.21
	Minimum	5.96	5.98	6.00	5.99	85.3	85.0	84.9	7.93	7.99	8.00	7.99
	Maximum	8.42	8.42	8.38	8.40	99.4	99.2	99.5	8.48	8.43	8.43	8.44
SR4	Average	6.88	6.79	6.84	6.89	93.1	92.8	92.5	8.23	8.22	8.24	8.23
	Minimum	6.01	5.96	5.93	5.99	82.4	81.9	81.5	7.92	7.98	7.99	7.97
	Maximum	8.13	8.28	8.11	8.12	99.1	99.0	98.9	8.43	8.42	8.42	8.42
SR5	Average	6.88	6.73	6.84	6.86	93.3	92.1	92.5	8.22	8.22	8.24	8.23
	Minimum	6.02	5.90	5.86	5.96	82.5	81.1	80.5	7.89	7.98	8.00	7.97
	Maximum	8.38	7.64	8.35	8.36	99.9	99.4	98.8	8.58	8.46	8.48	8.48
SR6	Average	6.86	6.84	6.79	6.83	93.0	92.7	91.9	8.21	8.22	8.23	8.22
	Minimum	5.78	5.70	5.68	5.74	79.4	78.6	78.4	7.95	7.99	8.06	8.01
	Maximum	8.35	8.37	8.25	8.32	99.0	99.4	99.0	8.44	8.45	8.45	8.44
SR7	Average	6.87	6.83	6.80	6.83	93.1	92.5	92.1	8.22	8.23	8.23	8.23
	Minimum	5.68	5.69	5.64	5.69	78.4	78.6	78.0	7.96	8.04	8.06	8.04
	Maximum	8.33	8.34	8.32	8.33	98.7	98.9	98.9	8.43	8.50	8.45	8.45
C1	Average	6.66	6.61	6.62	6.63	90.0	89.4	89.5	8.18	8.19	8.20	8.19
	Minimum	5.88	5.74	5.42	5.80	81.2	79.3	77.6	7.89	7.88	7.98	7.92
	Maximum	8.12	8.21	8.26	8.19	97.0	96.7	97.4	8.47	8.45	8.44	8.45
C2	Average	6.67	6.61	6.60	6.63	90.2	89.4	86.4	8.16	8.17	8.20	8.18
	Minimum	5.81	5.81	5.80	5.84	81.3	80.3	10.6	7.93	7.94	7.96	7.95
	Maximum	8.18	8.08	8.08	8.11	97.0	96.9	96.8	8.46	8.45	8.94	8.53
C3	Average	6.74	6.72	6.69	6.72	91.5	91.1	90.5	8.18	8.18	8.19	8.18
	Minimum	5.28	5.33	5.30	5.32	72.7	73.4	73.0	7.96	7.97	7.99	7.98
	Maximum	8.04	8.02	8.04	8.01	97.8	98.4	97.7	8.70	8.39	8.41	8.39
C4	Average	6.87	6.80	6.74	6.80	93.0	91.7	90.8	8.23	8.23	8.23	8.23
	Minimum	6.07	4.65	4.24	5.12	83.7	66.7	60.4	8.00	8.04	8.00	8.03
	Maximum	8.12	8.18	8.26	8.18	99.2	99.3	99.6	8.55	8.48	8.47	8.49
C5	Average	6.90	6.83	6.81	6.85	93.3	92.2	92.0	8.25	8.24	8.25	8.25
	Minimum	5.61	5.53	5.45	5.55	77.0	76.1	75.0	8.01	8.06	7.93	8.04
	Maximum	8.38	8.35	8.34	8.35	100.0	99.1	99.1	8.56	8.51	8.49	8.51

Summary of Field Measurement Data

Station		Temp-Top (°C)	Temp-Mid (°C)	Temp-Bot (°C)	Sal-Top (ppt)	Sal-Mid (ppt)	Sal-Bot (ppt)	Turb-Top (NTU)	Turb-Mid (NTU)	Turb-Bot (NTU)	Turb-Avg (NTU)
SR1	Average	22.97	23.07	23.01	31.4	31.5	31.5	8.5	9.4	12.0	10.0
	Minimum	21.21	22.01	22.01	30.8	30.8	30.7	4.9	5.5	4.9	5.4
	Maximum	24.46	24.49	24.48	32.5	32.0	32.1	19.1	17.9	43.3	24.1
SR2	Average	23.05	23.09	23.04	31.4	31.4	31.5	10.4	8.8	9.4	9.5
	Minimum	21.33	21.93	21.95	30.8	30.9	31.0	4.2	4.5	4.4	4.8
	Maximum	24.74	24.48	24.53	32.6	32.3	32.0	42.9	16.9	16.5	19.7
SR3	Average	23.04	22.98	22.92	31.5	31.5	31.6	9.1	9.9	10.8	9.9
	Minimum	21.58	21.93	21.84	30.9	30.7	31.1	3.6	3.6	4.4	3.9
	Maximum	24.61	24.52	24.42	32.5	32.0	32.2	24.9	16.9	18.6	18.7
SR4	Average	22.90	22.83	22.81	31.4	31.5	31.6	7.8	9.2	10.4	9.1
	Minimum	21.74	21.84	21.79	30.8	31.2	31.3	5.6	5.5	5.7	4.7
	Maximum	24.61	24.33	24.29	32.6	32.0	32.3	12.3	13.4	20.3	13.7
SR5	Average	22.88	23.05	22.83	31.4	31.5	31.5	8.9	9.7	10.2	9.6
	Minimum	21.56	21.79	21.74	30.7	30.7	30.8	4.7	4.1	3.9	4.3
	Maximum	24.34	31.77	24.26	32.4	31.9	32.0	18.9	21.4	28.5	18.4
SR6	Average	22.92	22.86	22.88	31.5	31.5	31.6	10.3	10.0	11.6	10.6
	Minimum	21.55	21.84	21.85	30.8	30.9	30.7	3.9	3.9	4.7	4.4
	Maximum	24.46	24.50	24.28	32.3	32.1	32.2	21.5	17.6	27.8	18.1
SR7	Average	22.91	22.86	22.85	31.5	31.6	31.6	9.2	10.1	12.1	10.5
	Minimum	21.73	21.88	21.85	30.7	31.1	30.8	2.4	3.0	4.1	3.4
	Maximum	24.32	24.25	24.22	32.2	32.1	32.2	23.2	22.1	23.6	22.7
C1	Average	22.98	23.05	23.00	31.4	31.6	31.5	7.7	9.3	14.3	10.4
	Minimum	21.31	22.09	22.06	30.8	31.0	30.7	4.1	4.2	5.8	4.8
	Maximum	24.48	24.51	24.46	32.4	32.1	32.3	17.9	25.5	41.4	28.1
C2	Average	23.04	23.08	23.06	31.4	31.5	31.6	11.2	12.5	14.8	12.8
	Minimum	21.83	21.85	22.04	30.9	30.8	30.8	4.5	5.4	6.0	5.8
	Maximum	24.43	24.52	24.51	32.2	31.9	32.0	36.7	51.5	68.4	52.1
C3	Average	23.16	23.06	23.03	31.4	31.5	31.6	9.3	9.9	11.1	10.1
	Minimum	22.07	22.02	21.98	30.8	31.0	31.1	3.6	4.4	5.4	4.7
	Maximum	24.78	24.62	24.52	31.9	31.8	32.2	14.9	14.7	18.2	15.2
C4	Average	23.02	22.91	22.83	31.4	31.5	31.6	8.9	8.9	12.9	10.2
	Minimum	21.58	21.90	21.79	31.0	31.0	31.0	3.7	4.4	5.4	5.5
	Maximum	25.15	24.66	24.43	32.4	31.9	32.1	16.4	15.7	29.8	15.7
C5	Average	22.89	22.89	22.85	31.4	31.7	31.6	6.6	6.9	10.7	8.1
	Minimum	21.67	21.80	21.83	30.8	31.1	31.0	2.1	2.9	3.9	3.6
	Maximum	24.42	24.80	24.30	32.4	32.1	32.1	18.4	17.4	19.3	17.5

The Hongkong Electric Company Limited
Marine Water Baseline Monitoring for the Lamna Power Station Extension
Summary of Laboratory Analysis

Station		SS (mg/L)	NH ₃ -N (mg/L)	(NO ₂ , NO ₃ , +NH ₃)-N(mg/L)
SR1	Average	10.9	0.002	0.12
	Minimum	6.7	0.001	0.05
	Maximum	19.4	0.007	0.27
SR2	Average	10.8	0.002	0.12
	Minimum	6.7	0.001	0.06
	Maximum	15.5	0.005	0.26
SR3	Average	10.9	0.001	0.09
	Minimum	7.2	0.001	0.06
	Maximum	17.9	0.001	0.13
SR4	Average	11.4	0.001	0.08
	Minimum	4.8	0.001	0.04
	Maximum	19.5	0.003	0.12
SR5	Average	11.6	0.001	0.08
	Minimum	5.1	0.001	0.04
	Maximum	18.6	0.002	0.11
SR6	Average	11.7	0.001	0.08
	Minimum	5.6	0.001	0.03
	Maximum	25.4	0.001	0.11
SR7	Average	11.9	0.002	0.09
	Minimum	6.0	0.001	0.05
	Maximum	19.4	0.003	0.13
C1	Average	12.5	0.002	0.12
	Minimum	7.4	0.001	0.06
	Maximum	25.7	0.005	0.26
C2	Average	15.4	0.003	0.15
	Minimum	6.6	0.001	0.06
	Maximum	36.5	0.008	0.28
C3	Average	13.0	0.002	0.11
	Minimum	5.5	0.001	0.07
	Maximum	19.6	0.007	0.16
C4	Average	11.5	0.001	0.08
	Minimum	6.7	0.001	0.04
	Maximum	20.0	0.002	0.12
C5	Average	10.0	0.001	0.08
	Minimum	6.8	0.001	0.03
	Maximum	14.1	0.001	0.13

Note: The results of Suspended Solids, Unionized Ammonia and Total Inorganic Nitrogen are presented in depth-average