

OCEANOGRAPHICAL STATION LIST

of Investigations made by the Division of Fisheries,
Commonwealth Scientific and Industrial Research
Organization, Australia

Volume 9

Records of Twenty-four Hourly Hydrological
Observations at Selected Stations in
Eastern Australian Estuarine Systems, 1942-50

Queensland: Logan River; New South Wales: Richmond
River, Clarence River, Macleay River, Hastings River,
Manning River, Port Stephens, Hawkesbury River,
Georges River, Port Hacking, Clyde River, Tuross River;
Tasmania: Tamar River, Derwent River

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COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
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RECORDS OF TWENTY-FOUR HOURLY HYDROLOGICAL OBSERVATIONS AT SELECTED STATIONS IN EASTERN AUSTRALIAN ESTUARINE SYSTEMS, 1942-50

I. INTRODUCTION

As part of the extensive programme of estuarine sampling in eastern Australian estuarine waters (Oceanographical Station List, Volumes 5-7), it was considered necessary from the beginning to measure the tide-generated fluctuations in hydrological conditions within these systems. As it was impossible to measure these fluctuations at all points within the system, a station within the gradient zone of maximum conflict value (see Rochford (1951) for definition of these terms) was chosen as being of greatest value. The hydrological and biological importance of these persistent fluctuations at a fixed point within the estuarine system have been discussed by Rochford (1951).

II. METHODS

Methods of collection and analysis are the same as those given by Rochford (1951).

III. UNITS

Hydrological units are those used by Rochford (1951). Tide heights are given in inches but could not be corrected to any local sea-level datum, so that intercomparison of tidal formation is not possible.

IV. LOCATION OF STATIONS

The 24-hour sampling was conducted at station positions whose location within the estuarine system have been given in preceding volumes of this series.

V. PERSONNEL

The laboratory analyses of the data have been the responsibility of Mr. D. J. Rochford and the hydrology staff at Cronulla. The field collections have been carried out by Messrs. C. Wirrell, H. Hollis, C. Brown, and G. Kitchen, and other members of the C.S.I.R.O. Division of Fisheries, to whose perseverance and loyalty the whole programme is indebted.

VI. REFERENCES

ROCHFORD, D. J. (1951).—Studies in Australian estuarine hydrology. I. Introductory and comparative features. *Aust. J. Mar. Freshw. Res.* 2: 1-116.

Location: LOGAN RIVER NO. 5 - MORETON BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
24. x	1 pm	40	4	23.7	10.32	5.20	94	17-21	0
	2	28	4	.5					
	3	19	4	.5	6.97	.46	94		
	4	15	3	.2					
	5	24	2	.0	5.80	.50	93	23-23	0
	6	40	2	.0					
	7	57	1	.2	8.85	3.74	65		
	8	75	6	.3					
	9	81	4	.4	13.63	5.00	93	17-17	0
	10	80	4	.6					
	11	70	5	.4	.85	4.86	89		
	12 m	54	10	.2					
25. x	1 am	43	5	.9	9.31	5.06	90	23-19	1
	2	30	7	.8					
	3	18	6	.7	6.49	.12	107		
	4	12	7	.5					
	5	16	4	.4	4.83	.05	85	30-27	0
	6	30	6	.4					
	7	54	6	.5	7.01	.05	88		
	8	73	5	.8					
	9	85	4	.1	6.63	4.80	82	15-16	20
	10	90	8	.6					
	11	84	7	.5	16.18	.70	90		
	12 n	69	9	.3					
	1 pm	54	8	.8	14.01	5.02	94	19-16	5

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
30. viii	2 pm	48		17.1	16.46	5.07	87	19	0
	3	44	20.6	.3					
	4	36	18.9	.7	14.28	.70	97	16	0
	5	31	17.8	.2					
	6	29	11.7	.0	13.01	.58	92	16	0
	7	31	.7	16.6					
	8	39	9.4	.7	11.36	.74	93	16	0
	9	42	8.3	17.0					
	10	54	.3	16.6	13.35	.59	92	19	0
	11	60	7.2	17.3					
	12 m	62	6.7	.3	16.61	.48	95	19	0
31. viii	1 am	58	7.2	.2					
	2	50	5.0	.4	.60	.40	94	0	0
	3	45	.6	16.6					
	4	36	.7	.5	14.97	.30	89		0
	5	30		15.9					
	6	26	.6	.8	12.40	.33	86	19	0
	7	25	6.7	16.0					
	8	31	15.0	.2	11.40	.63	90		0
	9	40	.0	.1					
	10	41	.6	.7	.76	.59	91	19	0
	11	53	16.7	.7					
	12 n	58	17.2	.7	15.23	.57	94		0
	1 pm	58	18.3	17.2					
	2	55	17.8	.8	16.17	.90	102	18	0
1947									
11. ii	5 pm	42	27.2	26.0	3.28			50	85
	6	39	25.0	.0					
	7	34	22.8	25.8	2.41				
	8	34	.8	.5					
	9	39	.8	.2	1.70			50	102
	10	47	23.3	.0					
	11	54	.1	.0	.70				
	12 m	60	.3	24.9					
12. ii	1 am	64	.3	.5	2.77			50	113
	2	65	.3	.5					
	3	63	.3	.5	3.26				
	4	57	22.2	.5					

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
12.ii	5 am	51	22.2	24.2	3.42			56	117
	6	46	21.0	25.0					
	7	42	22.0	.0	2.72				
	8	40	23.4	.3					
	9	43	24.4	.6	.12			56	85
	10	47	26.1	.6					
	11	53	24.3	.6	1.99				
	12 n	58	.6	.6					
	1 pm	61	25.0	.6	.38			50	81
	2	60	26.8	.5					
	3	57	25.9	.2	2.23				
	4	51	23.9	.2					
	5	51	.3	.7	.62			50	124
21.ix	5 pm	45	13.2	19.6	14.70	5.54	88	13	34
	6	39	12.8	.5					
	7	36	.0	.4	12.82	.46	94	14	7
	8	33	.0	.5					
	9	33	.0	.5	11.71	.21	89		
	10	36	.1	.5					
	11	39	11.8	.3	10.98	.54	93	16	6
	12 m	42	12.0	.5					
22.ix	1 am	45	.0	.1	11.05	.13	86		
	2	45	.0	.1					
	3	42	11.5	18.8	.14	.60	93	16	7
	4	37	12.0	.6					
	5	33	.5	.5	9.80	.17	85		
	6	27	.6	.4					
	7	28	.9	.6	8.65	.53	89	22	19
	8	30	.9	.7					
	9	33	16.0	19.0	.32	.57	91		
	10	39	18.3	.3					
	11	45	20.0	.5	9.27	.69	94	16	19
	12 n	50	19.5	.7					
	1 pm	54	20.8	.9	10.97	.27	89		
	2	57	22.0	.7					
	3	58	19.8	20.0	12.92	.85	102	15	24
	4	56	17.3	19.3					
	5	52	16.0	.3	14.90	.63	99	8	14

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
2.11	5 pm	45	26.5	26.4	11.27	5.08	95	25	13
	6	39	.0	.7					
	7	32	25.7	.8	10.17	4.86	92		
	8	28	24.0	.0					
	9	28	23.5	.0	8.69	.80	88	26	4
	10	28	.2	25.9					
	11	33	22.8	.7	7.63	.89	88		
	12 m	39	.5	.8					
3.11	1 am	47	.2	.7	.87	.76	86	30	6
	2	52	20.8	.6					
	3	54	.5	.5	9.44	.58	84		
	4	58	.5	.2					
	5	56	.0	.2	11.17	.76	89	30	3
	6	51	21.0	.3					
	7	45	24.0	.5	.47	.60	86		
	8	40	26.9	.5					
	9	34	27.8	.9	9.86	.40	82	30	14
	10	33	28.0	26.3					
	11	32	29.8	.9	.05	.72	88		
	12 n	35	33.0	.8					
	1 pm	39	32.9	27.0	7.50	.38	81	32	7
	2	43	29.9	26.6					
	3	46	30.0	.6	8.26	5.37	99		
	4	46	28.2	27.1					
	5	43	26.2	.3	.53	.65	106	35	12
14. x	7 pm	53	22.5	21.3	13.70	6.38	114	4	0
	8	50	.5	.0					
	9	42	21.8	.0	.86				
	10	35	20.5	.0					
	11	26	17.8	.0	12.14	5.70	100	7	0
	12 m	18	16.5	.0					
15. x	1 am	12	15.3	.0	10.31	.43	93		
	2	12	14.5	.2					
	3	18	.5	.1	8.70	.47	93	24	24
	4	26	11.8	.2					
	5	34	10.8	.0	9.27	.48	93		
	6	40	13.6	20.7					

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
15. x	7 am	43	14.2	20.2	11.35	5.83	100	13	8
	8	43	20.8	.3					
	9	38	23.4	.7	13.72	.92	105		
	10	31	26.2	21.0					
	11	24	28.2	.3	11.35			6	13
	12 n	17	27.0	22.0					
	1 pm	14		.3	9.73	6.52	114		
	2	15	22.0	.2					
	3	22	21.0	.3	8.28	.27	108	18	14
	4	31	19.2	.2					
	5	39	17.6	.0	9.30	.78	117		
	6	47	15.5	21.3					
	7	50	14.8	.0	12.07	.43	113	7	7
1949									
18. iii	11 am	60	29.0	27.9	2.90	3.20	57	61	161
	12 n	60	34.0	.3					
	1 pm	54	31.0	.8	4.54	.65	66		
	2	46	27.5	28.2					
	3	37	28.9	.2	.79	.34	61	52	152
	4	28	24.9	29.4					
	5	24	23.0	23.5	2.91	.29	55		
	6	22	22.5	21.1					
	7	27	20.5	22.8	1.71	.40	55	60	341
	8	39	21.0	19.0					
	9	46	.5	27.1	.63	.07	53		
	10	56	.8	26.8					
	11	64	.5	.3	4.74	4.03	71	52	153
	12 m	68	.0	.3					
19. iii	1 am	66	.0	.7	9.86	.11	77		
	2	60	20.0	25.9					
	3	53	21.0	.4	.45	.03	74	45	53
	4	45	.0	21.4					
	5	37	.0	24.3	5.88	3.73	65		
	6	32	17.8	22.9					
	7	30	19.5	24.2	3.96	.70	63	57	159
	8	33	25.6	.0					
	9	39	23.0	.5	.07	4.16	70		
	10	48	24.5	25.9					
	11	52	23.0	.7	.84	3.90	68	57	159

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1949			Sky						
27.viii	7 am	50	1	17.3	10.37	5.26	85	21	11
	8	60	1	.7					
	9	72	2	.7	11.68	.29	87		
	10	80	7	.9					
	11	84	8	18.0	15.54	.33	92	24	6
	12 n	81	4	.0					
	1 pm	72	9	.0	16.68	.31	93		
	2	65	8	.0					
	3	56	2	.0	13.27	.55	93	21	7
	4	48	1	17.9					
	5	45	1	.6	10.95	.54	90		
	6	45	8	.6					
	7	51	0	.6	9.57	.47	88	22	6
	8	63	0	.5					
	9	72	2	.5	10.05	.26	85		
	10	81	10	.8					
	11	86	10	18.2	14.97	.36	92	24	3
	12 m	87	5	17.8					
28.viii	1 am	78	8	.6	15.83	.31	92		
	2	72	2	.3					
	3	63	1	.1	14.58	.17	87	21	10
	4	54	1	16.7					
	5	48	9	.7	11.40	4.99	80		
	6	42	8	.7					
	7	45	4	.7	9.89	5.28	84	18	6
1950			Air Temp.						
16.i	11 am	62	26.0	23.0	18.29	4.63	90	22	16
	12 n	52	.5	24.5					
	1 pm	47	29.0	26.0	16.65	.51	90		
	2	42	.0	.4					
	3	42	30.0	.4	15.06	.38	87	33	0
	4	46	27.1	.5					
	5	54	26.0	25.6	14.42	.45	86		
	6	60	24.4	.9					
	7	64	25.0	.6	15.94	.54	90	31	3
	8	63	24.0	.2					
	9	60	.0	.0	16.47	.24	70		
	10	54	23.0	.2					

Location: RICHMOND RIVER NO. 4 - EMPIRE VALE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
16.i	11 pm	47	22.8	25.4	15.11	4.05	79	26	14
	12 m	42	.5	.4					
17.i	1 am	39	.0	.4	14.22	3.82	74		
	2	40	21.5	.2					
	3	45	.5	.8	12.30	4.37	83	30	2
	4	57	.0	.8					
	5	69	20.5	.4	14.82	.12	80		
	6	76	.5	24.8					
	7	85	23.5	23.9	17.31	.30	84	26	0
	8	88	25.0	.1					
	9	89	29.0	.5	19.44	.55	90		
	10	84	26.0	22.9					
	11	75	27.0	23.0	.38	.57	90	24	0
29.x	7 am	42	19.7	20.8	1.35	4.45	70	35	111
	8	52	21.7	21.1					
	9	58	22.8	.3	3.61	5.00	80		
	10	63	23.3	.4					
	11	60	.3	.3	5.39	4.94	81	34	75
	12 n	54	.3	.3					
	1 pm	45	24.4	.5	.79	.87	80		
	2	36	.4	.4					
	3	27	25.0	22.0	.40	5.32	88	43	72
	4	23	.0	.6					
	5	18	20.0	.4	3.87	4.70	77		
	6	21	17.8	21.8					
	7	28	16.7	.4	2.46	.87	78	37	96
	8	37	18.3	22.4					
	9	42	.3	24.0	.95	.92	82		
	10	45	.9	23.9					
30.x	11	43	.9	21.5	3.77	.88	78	36	71
	12 m	45	17.8	.8					
	1 am	29	.2	.4	2.76	.82	77		
	2	22	15.6	.4					
	3	15	14.4	.0	1.56	.66	73	46	83
	4	14	.4	.5					
	5	16	.2	.5	.32	.88	78		
	6	25	15.6	.5					
	7	35	18.3	.5	.45	.93	78	45	79

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
2. ix	1 pm	18	18.3	17.7	8.00	6.30	99	2	8
	2	19	.3	.8					
	3	20	17.2	.2	9.53	5.79	92		4
	4	19	16.7	.2					
	5	15	.7	.2	.70	.60	89	5	4
	6	14	12.2	16.7					
	7	12	10.6	.7	.47	.33	84		16
	8	11	.0	.1					
	9	10	.0	.1	8.61	.47	85	5	15
	10	9	11.7	.1					
	11	12	.7	.0	7.40	.57	83		8
	12 m	14	.7	15.6					
3. ix	1 am	16	.1	16.8	.52	.55	86	5	6
	2	17	10.0	.6					
	3	17	.0	.4	8.25	.46	85		6
	4	14	9.4	.4					
	5	11	8.3	.0	.57	.12	79	7	6
	6	8	.3	.1					
	7	6	9.4	15.9	.30	.35	82		8
	8	4	11.7	.9					
	9	3	13.3	16.6	7.25	.70	88	5	6
	10	6	15.0	.9					
	11	9	17.8	.8	.52	.95	92		6
	12 n	13	18.3	17.5					
	1 pm	16	19.4	.6	.77	.96	94	6	6

Location: CLARENCE RIVER NO. 4 - HARWOOD

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
10.11	11am	48	27.8	28.0	0.29	3.20	56	33	250
	12 n	51	.2	.9					
	1 pm	52	26.7	.0	.33	.48	61		
	2	51	.7	.1					
	3	45	.7	27.3	.82	.42	59	27	250
	4	42	.1	.1					
	5	37	.1	26.9	.58	.15	54		
	6	36	25.0	29.9					
	7	33	24.4	.5	.31	.18	56	32	277
	8	33	.1	26.7					
	9	33	.2	.8	.23	2.94	34		
	10	37	.2	.7					
	11	43	23.9	.6	.21	3.28	56	38	314
	12 m	47	.9	.5					
11.11	1 am	48	.6	25.5	.23	.17	53		
	2	48	.3	.5					
	3	47	.6	.2	.36	.13	52	38	277
	4	42	.6	.2					
	5	39	.6	.9	.66	.20	54		
	6	36	.9	26.0					
	7	35	21.7	.0	.44	.14	53	38	210
	8	33	26.1	.2					
	9	36	24.5	.1	.23	4.47	76		
	10	39	25.0	.0					
	11	42	.3	.5	.23	3.31	56	47	180

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %a	PO ₄ -P	NO ₃ -N
1947									
19.1x	6 pm	25	20.0	20.1	3.85	5.43	86	4	14
	7	33	17.8	.0					
	8	31	16.4	.0	2.98	6.17	97		
	9	33	17.8	.0					
	10	36	.8	.0	.30	.00	93	7	0
	11	40	16.4	.0					
	12 m	42	14.4	19.7	3.52	5.96	93		
20.1x	1 am	42	.4	.7					
	2	42	13.9	.8	4.04	.95	94	7	10
	3	40	.3	.8					
	4	36	.9	.5	3.98	.85	92		
	5	33	12.8	.5					
	6	30	.8	.5	.12	.85	91	6	0
	7	28	16.1	.5					
	8	28	17.2	.6	2.30	.88	91		
	9	31	19.4	.6					
	10	36	20.0	.7	.27	6.07	94	4	32
	11	40	.3	.9					
	12 n	42	.0	20.0	3.83	.14	97		
	1 pm	45	.6	.1					
	2	46	19.4	.1	5.22	.21	100	4	15
	3	46	.4	.1					
	4	44	.2	.1	.57	.34	102		
	5	41	18.3	.0					
	6	39	17.8	19.8	.17	.00	96	7	28
1948									
29.1	8 pm	30	22.9	25.2	1.54	4.76	80	20	29
	9	31	21.5	26.0					
	10	36	.8	25.9	.08	.54	77		
	11	41	.5	.7					
	12 m	43	.5	24.0	2.62	.81	80	19	60
30.1	1 am	44	20.9	25.4					
	2	42	.5	.4	3.32	.74	82		
	3	38	.2	.3					
	4	34	.0	.3	.35	.75	82	20	
	5	31	.1	.2					
	6	30	21.0	.4	1.95	.45	77		
	7	27	22.0	.4					

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
30. i	8 am	27	23.2	25.4	1.08	4.44	75	30	51
	9	34	24.5	.5					
	10	42	25.0	.5	.60	.67	79		
	11	47	26.2	26.6					
	12 n	51	.5	25.9	3.23	.66	81	31	
	1 pm	51	.5	.8					
	2	52	27.0	26.8	4.85	.66	82		
	3	51	25.9	25.9					
	4	45	.5	.8	5.98	.95	88	23	90
	5	41	.1	.8					
	6	39	24.8	.8	4.50	5.00	88		
	7	43	23.5	.7					
	8	34	.0	.7	2.91	.00	86	25	36
16. x	4 pm	23	17.0	22.4	4.36	5.69	94		4
	5	26	.5	.1					
	6	32	.5	.0	3.94	.70	93		
	7	35	.8	.0					
	8	38	.5	21.6	5.10	.40	89	2	8
	9	39	.0	.5					
	10	39	.3	.3	.94	.25	86		
	11	36	16.5	.3					
	12 m	34	13.8	.0	.70			6	5
17. x	1 am	29	12.2	.3					
	2	26	.0	.1	4.94				
	3	24	.0	.1					
	4	22	13.2	.0	.26	.40	84	5	9
	5	22	10.8	.0					
	6	29	12.0	.0	.07	.42	87		
	7	33	15.0	.2					
	8	36	17.0	.2	.29	.42	88	8	3
	9	37	19.4	.2					
	10	38	21.5	.2	5.28	.23	86		
	11	35	18.0	.6					
	12 n	31	19.0	22.0	.54	.29	88	5	12
	1 pm	28	25.0	.5					
	2	25	24.6	.8	4.62	.82	97		
	3	23	.5	.8					
	4	21	.2	23.0	.29	6.06	101	9	11

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1949									
20.iii	9 am	39	20.5	25.1	0.08	3.94	65	33	123
	10	37	21.0	.2					
	11	38	22.0	.4	.09	.90	65		
	12 n	42	.5	.8					
	1 pm	43	.8	.8	.09	4.14	69	37	258
	2	44	23.0	.4					
	3	44	.5	24.9	.10	3.61	60		
	4	41	.7	.6					
	5	39	.0	23.4	.10	.93	63	34	398
	6	32	21.2	24.9					
	7	35	20.0	25.3	.09	.73	62		
	8	33	.0	.5					
	9	33	.5	.4	.20	.70	62	30	227
	10	35	.0	.4					
	11	37	19.5	.2	.09	.69	61		
	12 m	44	.0	24.7					
21.iii	1 am	48	.0	.5	.10	.88	64	18	268
	2	51	.0	.4					
	3	52	18.2	.5	.11	.88	64		
	4	53	17.9	.5					
	5	51	18.0	.4	.11	.88	64	30	228
	6	49	.9	.4					
	7	47	19.9	.5	.10	.89	64		
	8	43	21.3	.4					
	9	40	22.3	.6	.11	.82	63	32	244
29.viii	8 am	46	16.0	16.5	0.13	6.09	86	17	275
	9	46	15.4	.5					
	10	48	17.0	.7	.08	.12	87		
	11	54	18.0	.8					
	12 n	58	.8	.8	.09	.27	90	10	182
	1 pm	62	19.0	.6					
	2	63	.0	.6	.26	.22	89		
	3	62	.0	.8					
	4	60	18.3	.7	.27	.28	91	8	69
	5	59	.0	.9					
	6	52	14.5	.4	.10	.16	88		
	7	51	.8	.9					

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -
1949									
29. viii	8 pm	49	14.4	16.9	0.09	6.14	88	9	13
	9	48	13.9	.8					
	10	48	.4	.7	.09	.21	89		
	11	49	.4	.5					
30. viii	12 m	51	.2	.4	.07	.59	94	10	55
	1 am	52	.1	.4					
	2	53	.0	.4	.07	.23	89		
	3	52	12.9	.4					
	4	49	13.1	.3	.07	.21	88	9	45
	5	46	12.9	.4					
	6	44	.5	.3	.06	5.94	84		
	7	42	.0	.3					
	8	40	14.0	.4	.10	6.12	87	10	31
1950									
13. i	3 pm	47	26.0	27.8	2.42	5.14	91	3	6
	4	48	25.0	.2					
	5	50	.0	.0	3.89	.03	89		
	6	51	24.1	26.8					
	7	48	22.4	.8	4.28	4.89	87	8	4
	8	44	20.8	.6					
	9	42	18.8	.6	.08	.42	78		
	10	40	.0	.8					
	11	38	.5	.9	2.87	.75	83	5	9
	12 m	37	17.5	27.0					
14. i	1 am	36	16.3	.0	1.61	.59	80		
	2	41	18.9	26.8					
	3	45	19.0	.4	2.42	.68	81	1	6
	4	48	.0	.2					
	5	51	.0	.2	3.77	.51	79		
	6	54	.5	.1					
	7	55	20.5	.0	4.87	.28	75	5	0
	8	55	21.0	25.9					
	9	52	23.0	26.1	5.29				
	10	49	27.0	.0					
	11	47	28.9	.4	4.77	.80	85	9	0
	12 n	44	.5	.8					
	1 pm	42	.0	27.2		5.01			
	2	41	27.5	.5					
	3	42	.5	.4		.21		4	2

Location: CLARENCE RIVER NO. 5 - MACLEAN,
SOUTH ARM BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
29. x	1 pm	50	21.7	21.7	0.07	5.68	89	.19	47
	2	45	22.2	.6					
	3	43	.2	.6	.05	.29	83		
	4	40	20.6	.6					
	5	36	19.7	.6	.05	.36	84	23	33
	6	34	.4	.6					
	7	32	17.8	.5	.05	.55	87		
	8	32	15.0	.5					
	9	35	.0	.5	.05	.33	83	40	40
	10	37	13.9	.4					
	11	40	15.0	.2	.05	.34	83		
	12 m	41	13.9	.0					
30. x	1 am	39	17.2	.0	.04	.18	80	94	85
	2	36	.2	.1					
	3	33	.2	.0	.05	.28	82		
	4	30	.2	.1					
	5	28	16.7	.3	.05	4.99	78	41	51
	6	27	17.8	.3					
	7	28	18.9	.3	.05	5.13	80		
	8	32	20.0	.4					
	9	37	.6	.5	.04	.03	78	44	35
	10	42	18.3	.3					
	11	45	20.0	.4	.05	.38	84		
	12 n	49	21.1	.5					
	1 pm	51	22.8	.4	.05	.25	82	22	45

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
22. viii	5 pm	49	19.4	17.0	18.23	5.53	101	5	1
	6	50	17.8	.5					
	7	47	16.7	.5	19.53	.30	94		1
	8	37	15.6	.3					
	9	33	13.9	.2	.19	.33	90	7	1
	10	27	12.8	16.3					
	11	23	.2	14.3	14.98	.73	89		4
	12 m	18	9.4	15.2					
23. viii	1 am	15	10.6	.0	12.09	.90	85	7	4
	2	18	8.9	14.8					
	3	24	.9	.6	10.16	6.11	83		0
	4	30	7.2	.9					
	5	33	.2	.9	12.38	5.34	72	6	0
	6	33	6.7	15.1					
	7	30	.1	.2	14.53	.64	76		0
	8	24	7.2	.1					
	9	18	12.8	14.8	13.10	.73	88	7	0
	10	15	14.4	.8					
	11	12	15.6	.4	10.54	6.15	96		0
	12 n	11	17.8	.4					
	1 pm	13	18.9	.4	8.76	.34	103	10	0
	2	24	.9	17.3					
	3	33	17.2	15.6	10.07	.20	100		1
	4	41	.2	.4					
	5	46	.2	.8	14.82			8	1
1947									
5. ii	8 pm	60	23.1	26.0	1.01	4.13	70	27	210
	9	59	21.1	.0					
	10	54	20.6	24.5	2.08	.20	70		
	11	50	.6	.5					
	12 m	44	.6	.5	0.86	.03	67	27	250
6. ii	1 am	38	.0	.5					
	2	35	22.0	.5	.31	3.59	59		
	3	35	19.7	.5					
	4	42	.4	.8	.16	.44	57	32	210
	5	59	.4	.8					
	6	66	20.1	25.8	.29	.60	60		
	7	72	21.3	26.3					

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947 6.11	8 am	78	24.5	26.2	9.53	4.26	79	14	58
	9	79	28.2	.5					
	10	76	30.2	.7	13.20	.54	89		
	11	69	.0	.5					
	12 n	60	31.7	.5	9.91	.64	87	15	50
	1 pm	54	.7	.5					
	2	48	30.6	.5	4.65				
	3	42	28.6	.5					
	4	38	26.1	.3	2.34	.14	72	32	227
	5	38	.1	.5					
	6	48	25.0	.4	0.75	3.42	58		
	7	57	23.3	25.5					
	8	60	22.8	.5	1.21	.66	62	23	277
17.ix	2 pm	24	19.4	19.2	9.02	6.00	99	10	16
	3	17	18.3	18.8					
	4	11	.3	.5	4.23	.21	96	9	0
	5	8	17.8	.3					
	6	12	15.6	.3	1.43	.12	91	14	8
	7	23	13.3	17.7					
	8	31	12.2	18.0	2.81	.07	91		
	9	38	.2	.2					
	10	42	11.1	.0	8.25	5.80	93	14	0
	11	44	.1	.7					
	12 m	40	10.6	.6	14.83	.53	96		
18.ix	1 am	32	.6	.5					
	2	25	.3	.0	11.21	.64	93	9	0
	3	18	9.7	.0					
	4	13	8.6	.0	5.87	6.47	101		
	5	8	.9	17.8					
	6	8	.3	.7	2.50	5.94	89	12	0
	7	17	.9	.7					
	8	28	12.8	.8	.64	6.05	91		
	9	35	17.0	.9					
	10	41	.8	18.0	6.79	5.73	90	9	0
	11	43	18.3	.2					
	12 n	43	.9	.3	14.56	.62	97		
	1 pm	37	20.0	.5					
	2				15.42	.65		10	0

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
27.1	1 pm	42	25.0	23.2	18.50	4.96	97	13	0
	2	36	23.9	.5					
	3	30	22.2	24.4	13.25	.82	90		
	4	24	.9	.3					
	5	18	21.5	.5	6.12	.35	76	30	0
	6	16	.5	.5					
	7	24	.0	.5	4.95	.28	74		
	8	33	20.9	.5					
	9	39	.5	.5	5.16	.33	74	26	27
	10	42	.5	.5					
	11	41	.5	.3	8.69	.34	78		
	12 m	37	.5	.0					
28.1	1 am	29	19.9	.3	.84	.42	79	28	29
	2	22	.5	.3					
	3	15	.1	.2	5.36	.35	75		
	4	12	.1	.3					
	5	12	18.5	.3	2.75	.13	69	29	0
	6	22	19.1	.3					
	7	33	22.0	.3	3.20	.15	70		
	8	44	21.6	.3					
	9	52	22.5	.1		.37		28	0
	10	57	23.8	23.5					
	11	60	24.0	.0	18.16	5.17	100		
	12 n	58	25.0	.1					
	1 pm	48	.2	.1	19.36	.30	104	15	0
19.x	6 pm	14	18.5	21.0	0.12	5.06	78	31	285
	7	22	.0	20.9					
	8	27	.5	.8	.10	.03	78		
	9	30	16.8	21.0					
	10	27	17.2	.0	.33	4.82	75	21	271
	11	36	16.8	20.8					
	12 m	33	17.2	.6	.84	5.25	81		
20.x	1 am	29	16.8	.6					
	2	25	.4	.8	.40	.16	80	26	278
	3	20	.6	.7					
	4	17	15.0	.6	.10	.21	80		
	5	16	13.5	.4					

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
20.x	6 am	14	12.8	20.4	0.05	5.10	78	31	323
	7	22	15.2	.5					
	8	28	17.4	.5	.08	4.98	76		
	9	34	18.8	21.0					
	10	39	21.0	.0	.63	5.14	80	25	304
	11	41	23.6	.2					
	12 n	42	.0	.2	1.74	4.93	78		
	1 pm	38	.2	.4					
	2	34	.0	22.0	.56	5.24	84	38	262
	3	30	.5	21.9					
	4	26	.0	22.0	0.51	4.95	78		
	5	20	22.8	.0					
	6	17	20.8	21.8	.16	5.81	91	34	277
1949									
22.i	12 n	24	27.2	23.5	5.83	4.95	84	10	28
	1 pm	26	26.7	24.0					
	2	32	28.0	.8	7.27	.92	87		
	3	33	27.8	23.7					
	4	32	25.6	.5	11.89	.78	87	6	19
	5	30	27.1	.7					
	6	21	24.9	.9	12.24	5.62	104		
	7	15	25.6	.9					
	8	12	24.4	24.0	8.20	4.88	86	5	25
	9	8	23.3	.1					
	10	6	.3	.1	3.44	5.08	86		
	11	6	.3	.1					
	12 m	19	22.2	.1	.52	4.69	79	10	51
23.i	1 am	24	21.7	.0					
	2	30	22.2	23.7	4.11	.76	80		
	3	34	21.7	.9					
	4	37	20.6	.5	9.71	.61	82	11	19
	5	37	.0	.6					
	6	32	.8	.2	13.25	.98	92		
	7	24	21.7	22.5					
	8	19	24.4	23.0	9.13	.71	83	7	18
	9	16	23.9	.5					
	10	14	25.0	.9	6.14	.66	80		
	11	12	26.1	24.0					
	12 n	10	27.8	.5	3.83	.86	83	13	53

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
23. iii	3 pm	25	22.0	23.7	1.03	4.77	78	29	95
	4	28	.0	.3					
	5	30	21.0	.7	2.13	.47	74		
	6	30	20.0	25.2					
	7	29	18.8	.2	.15	.86	82	23	103
	8	27	20.0	19.6					
	9	24	.0	22.3	.66	.62	75		
	10	21	19.0	.6					
	11	19	18.0	24.4	1.32	.67	77	28	125
	12 m	21	.0	.6					
24. iii	1 am	27	17.5	22.6	0.92	.44	71		
	2	32	18.2	23.5					
	3	38	.0	22.4	2.59	.67	76	23	95
	4	41	17.3	.3					
	5	45	.0	.4	6.76	.68	79		
	6	46	16.8	.4					
	7	44	17.5	23.3	9.14	.68	83	19	64
	8	39	19.8	.3					
	9	36	20.8	22.7	6.53	.40	75		
	10	30	22.0	.7					
	11	24	.4	23.3	5.23	.51	76	22	89
	12 n	19	18.5	22.8					
	1 pm	18	24.0	23.1	3.27	.68	77		
	2	19	21.7	22.1					
	3	24	20.0	.3	1.39	.62	74	31	82
1950									
9. i	6 pm	21	25.8	25.7	9.22	5.16	95	13	7
	7	18	.9	.5					
	8	23	23.0	.8	4.85	.28	93		
	9	30	22.5	26.1					
	10	42	.1	25.8	3.43	.22	90	17	10
	11	50	21.8	.8					
	12 m	54	20.8	.4	7.57	.02	90		
10. i	1 am	56	.0	.0					
	2	51	.0	24.6	.73	.31	94	13	7
	3	43	.0	.4					
	4	36	19.5	.8	8.99	6.01	109		
	5	25	21.0	25.3					

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
10.1	6 am	24	21.5	25.4	5.46	5.01	88	18	11
	7	24	.0	.4					
	8	30	.5	.5	2.99	.32	91		
	9	37	22.8	.6					
	10	48	23.5	.2	4.15	.01	87	8	8
	11	55	.2	.2					
	12 n	61	.5	24.9	7.07	.14	91		
	1 pm	65	.8	.0					
	2	61	27.0	23.6	13.58	.01	93	18	6
	3	53	23.8	24.0					
	4	42	24.5	.3	14.36	.06	96		
	5	35	.8	.4					
	6	26	23.3	.8	10.13	.18	96	20	12
1. xi	3 pm	33	24.4	23.5	7.71	4.22	74	18	32
	4	27	23.9	.4					
	5	18	22.0	.2	6.14	5.13	87		
	6	12	20.0	.0					
	7	9	19.4	22.5	3.38	.04	83	14	29
	8	6	17.8	21.9					
	9	9	.2	.2	2.18	4.90	78		
	10	13	16.4	.0					
	11	18	.1	20.7	1.30	5.23	81	24	61
	12 m	22	15.6	.5					
2. xi	1 am	23	14.4	.4	.20	.22	81		
	2	22	13.6	.0					
	3	20	.3	19.7	.22	.77	88	20	41
	4	17	12.8	.2					
	5	13	11.7	.6	.33	.18	79		
	6	11	13.9	.5					
	7	12	16.7	.7	0.72	.04	77	23	38
	8	15	17.8	20.2					
	9	20	18.9	.5	.56	4.94	76		
	10	26	20.0	.7					
	11	31	21.1	21.4	3.65	5.31	86	24	29
	12 n	36	24.4	.8					
	1 pm	40	25.6	.7	6.58	.30	76		
	2	40	.6	22.2					
	3	36	.6	.4	15.61	.02	93	15	1

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
23.111	3 pm	25	22.0	23.7	1.03	4.77	78	29	95
	4	28	.0	.3					
	5	30	21.0	.7	2.13	.47	74		
	6	30	20.0	25.2					
	7	29	18.8	.2	.15	.86	82	23	103
	8	27	20.0	19.6					
	9	24	.0	22.3	.66	.62	75		
	10	21	19.0	.6					
	11	19	18.0	24.4	1.32	.67	77	28	125
	12 m	21	.0	.6					
24.111	1 am	27	17.5	22.6	0.92	.44	71		
	2	32	18.2	23.5					
	3	38	.0	22.4	2.59	.67	76	23	95
	4	41	17.3	.3					
	5	45	.0	.4	6.76	.68	79		
	6	46	16.8	.4					
	7	44	17.5	23.3	9.14	.68	83	19	64
	8	39	19.8	.3					
	9	36	20.8	22.7	6.53	.40	75		
	10	30	22.0	.7					
	11	24	.4	23.3	5.23	.51	76	22	89
	12 n	19	18.5	22.8					
	1 pm	18	24.0	23.1	3.27	.68	77		
	2	19	21.7	22.1					
	3	24	20.0	.3	1.39	.62	74	31	82
1950									
9.1	6 pm	21	25.8	25.7	9.22	5.16	95	13	7
	7	18	.9	.5					
	8	23	23.0	.8	4.85	.28	93		
	9	30	22.5	26.1					
	10	42	.1	25.8	3.43	.22	90	17	10
	11	50	21.8	.8					
	12 m	54	20.8	.4	7.57	.02	90		
10.1	1 am	56	.0	.0					
	2	51	.0	24.6	.73	.31	94	13	7
	3	43	.0	.4					
	4	36	19.5	.8	8.99	6.01	109		
	5	25	21.0	25.3					

Location: MACLEAY RIVER NO. 2 - JERSEYVILLE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1950									
10.1	6 am	24	21.5	25.4	5.46	5.01	88	18	11
	7	24	.0	.4					
	8	30	.5	.5	2.99	.32	91		
	9	37	22.8	.6					
	10	48	23.5	.2	4.15	.01	87	8	8
	11	55	.2	.2					
	12 n	61	.5	24.9	7.07	.14	91		
	1 pm	65	.8	.0					
	2	61	27.0	23.6	13.58	.01	93	18	6
	3	53	23.8	24.0					
	4	42	24.5	.3	14.36	.06	96		
	5	35	.8	.4					
	6	26	23.3	.8	10.13	.18	96	20	12
1. xi	3 pm	33	24.4	23.5	7.71	4.22	74	18	32
	4	27	23.9	.4					
	5	18	22.0	.2	6.14	5.13	87		
	6	12	20.0	.0					
	7	9	19.4	22.5	3.38	.04	83	14	29
	8	6	17.8	21.9					
	9	9	.2	.2	2.18	4.90	78		
	10	13	16.4	.0					
	11	18	.1	20.7	1.30	5.23	81	24	61
	12 m	22	15.6	.5					
2. xi	1 am	23	14.4	.4	.20	.22	81		
	2	22	13.6	.0					
	3	20	.3	19.7	.22	.77	88	20	41
	4	17	12.8	.2					
	5	13	11.7	.6	.33	.18	79		
	6	11	13.9	.5					
	7	12	16.7	.7	0.72	.04	77	23	38
	8	15	17.8	20.2					
	9	20	18.9	.5	.56	4.94	76		
	10	26	20.0	.7					
	11	31	21.1	21.4	3.65	5.31	86	24	29
	12 n	36	24.4	.8					
	1 pm	40	25.6	.7	6.58	.30	76		
	2	40	.6	22.2					
	3	36	.6	.4	15.61	.02	93	15	1

Location: HASTINGS RIVER NO. 3 - SANCROX

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
21.viii	6 pm	30	11.1	14.4	13.89	5.85	93	0	1
	7	24	7.8	.3					
	8	19	6.1	.2	12.57	6.00	94		1
	9	16	5.0	.0					
	10	12	3.3	13.7	11.97	5.94	91	3	1
	11	11	.3	.7					
	12 m	13	2.2	.7	.57	.88	90		0
22.viii	1 am	16	1.1	14.0					
	2	22	0.6	.5	13.04	.85	92	1	0
	3	25	1.1	.1					
	4	27	-1.1	13.8	.21	.78	90		0
	5	25	0	.3					
	6	20	-2.8	.6	.23	.75	90	1	0
	7	16	-1.7	.0					
	8	10	10.6	.8	11.95	.98	91		0
	9	7	16.1	14.1					
	10	4	.1	.4	.48	6.20	96	1	0
	11	4	22.8	15.6					
	12 n	9	.5	16.1	10.96	.15	98		0
	1 pm	16	21.7	15.6					
	2	24	.7	.0	12.98	.00	96	1	0
	3	30	18.0	14.4					
	4	33	17.8	15.8	13.74	5.95	97		0
	5	39	15.0	.0					
	6	37	11.7	.7	14.02	.84	95	2	0
1947									
1.11	3 pm	45	25.3	27.2	7.86	4.12	77	14	88
	4	49	.0	.0					
	5	53	.0	.0	10.37	3.80	72		
	6	54	23.1	26.0					
	7	51	22.8	.0	.76	.96	74	12	
	8	45	.2	.0					
	9	42	21.7	.0	9.41	4.16	77		
	10	38	.1	25.5					
	11	35	20.9	.5	8.68	.02	72	8	63
	12 m	31	19.2	.1					
2.11	1 am	33	18.9	.5	7.53	3.95	71		
	2	41	17.5	.5					

Location: HASTINGS RIVER NO. 3 - SANCROX

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947									
2.11	3 am	45	18.4	25.5	10.19	3.38	63	14	41
	4	52	.4	.5					
	5	60	.9	.8	11.48	.33	63		
	6	65	19.8	26.4					
	7	68	22.0	.0	.48	.44	65	14	50
	8	65	23.4	.0					
	9	57	24.2	.0	.04	.75	71		
	10	52	25.3	.5					
	11	48	26.4	27.0	10.12	.94	56	8	44
	12 n	43	.8	.0					
	1 pm	39	.7	.0	8.36	4.24	79		
	2	36	.8	26.8					
	3	36	27.5	.5	7.32	.68	86	8	60
14.1x	1 pm	17	25.6	19.5	11.51	5.86	99	5	0
	2	12	.0	.6					
	3	7	.0	.8	10.67	.86	99	9	
	4	6	24.4	.9					
	5	12	22.2	.3	.50	.98	100	4	0
	6	19	18.9	.0					
	7	27	14.4	18.9	11.69	.93	100	5	
	8	36	13.1	.6					
	9	45	12.2	.7	13.50	.57	95	9	0
	10	47	10.9	.7					
	11	42	11.1	.4	.97	.32	91		
	12 m	33	10.6	.4					
15.1x	1 am	27	.6	.2	12.92	.45	92	8	0
	2	21	9.2	.2					
	3	16	.4	.2	11.49	.63	85		
	4	11	8.9	.2					
	5	7	.3	.3	10.77	.57	92	8	0
	6	8	.6	17.7					
	7	15	12.2	18.0	.20	.60	91		
	8	22	15.6	.6					
	9	29	20.0	.8	12.08	.60	95	9	0
	10	33	21.7	19.0					
	11	33	25.6	.0	.64	.68	97		
	12 n	26	.3	.8					
	1 pm	20	.3	20.0	.21	.83	101	9	0

Location: HASTINGS RIVER NO. 3 - SANCROX

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948									
25. i	10 am	68	25.9	25.4	6.76	4.99	89	3	13
	11	59	27.3	26.0					
	12 n	52	26.1	.2	5.15	.97	88		
	1 pm	45	25.5	.4					
	2	39	26.9	.5	3.60	5.38	94	4	13
	3	34	.5	.4					
	4	30	27.5	.6	2.72	.56	97		
	5	27	28.0	.6					
	6	33	23.4	.5	.03	.44	94	8	6
	7	43	21.0	.1					
	8	47	20.2	.0	3.92	.36	94		
	9	51	.0	25.8					
	10	51	.5	.6	4.04	.30	92	4	8
	11	47	.0	.4					
	12 m	39	.5	.5	3.73	.08	88		
26. i	1 am	34	.2	.5					
	2	30	.2	.8	2.76	.16	89	6	6
	3	25	.1	.7					
	4	26	.0	.7	.28	.45	93		
	5	33	.0	.7					
	6	42	21.5	.6	4.04	4.92	86	6	5
	7	52	23.9	.5					
	8	64	24.5	.5	6.38	.57	81		
	9	71	.5	.4					
	10	75	25.5	.5	7.78	.70	85	10	4
21. x	1 pm	65	22.8	22.5	11.44	5.52	99	6	0
	2	58	21.5	.2					
	3	50	20.2	.0	10.88	.54	98		
	4	45	19.8	.0					
	5	40	18.6	.0	9.77	.57	97	5	0
	6	36	14.2	21.6					
	7	33	10.2	.4	8.07	.50	93		
	8	32	8.0	.2					
	9	36	6.8	.0	6.74	.77	96	2	8
	10	40	5.0	.5					
	11	46	.5	.7	9.49	.23	90		
	12 m	48	3.5	.5					

Location: HASTINGS RIVER NO. 3 - SANCROX RIVER

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
22. x	1 am	50	3.6	20.7	10.06	5.42	92	2	0
	2	46	2.2	.2					
	3	41	.1	.0	8.49	.38	88		
	4	37	1.8	19.8					
	5	33	.5	20.0	7.81	.42	89	3	14
	6	30	9.4	.0					
	7	29	17.2	.1	.11	.49	88		
	8	34	15.2	.3					
	9	39	16.0	.8	.56	.43	90	3	0
	10	48	17.0	21.3					
	11	55	18.5	.5	10.28	.42	94		
	12 n	60	.8	.4					
	1 pm	64	19.4	.4	11.08	.61	98	5	0

Location: HASTINGS RIVER NO. 1 - PORT MACQUARIE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
6.1	4 pm	47	27.0	22.0	18.03	5.33	101	13	16
	5	42	.5	23.2					
	6	40	26.4	24.3	17.05				
	7	46	24.0	25.6					
	8	51	23.5	.2	15.12	.33	103	10	10
	9	55	24.0	23.9					
	10	60	23.1	22.3	17.78	.12	97		
	11	63	.1	.5					
	12 m	60	22.6	20.4	19.21	.24	98	16	0
7.1	1 am	54	.0	.3					
	2	50	21.0	.8	.24	.02	95		
	3	44	.6	21.8					
	4	40	.8	22.2	18.15	4.79	91	12	0
	5	40	.2	24.1					
	6	45	22.5	.8	14.52	.78	92		
	7	51	29.0	.2					
	8	58	22.0	20.4	18.17	5.24	97	18	0
	9	68	28.5	19.8					
	10	76	.7	20.1	.60	.02	93		
	11	78	31.0	21.0					
	12 n	77	30.0	20.2	19.26	.21	97	22	11
	1 pm	72	28.5	19.6					
	2	64	30.0	.6	.42	.08	94		
	3	57	29.0	20.3					
	4	49	27.5	21.4	18.66	.20	98	16	5
3.xi	8 am	38	20.6	21.0	8.02	5.50	92	6	0
	9	40	22.8	.2					
	10	43	24.4	22.0	.63	.43	93		
	11	48	27.2	.1					
	12 n	53	26.1	.0	11.13	.44	96	10	0
	1 pm	58	23.9	.0					
	2	63	24.4	.4	9.84	.40	91		
	3	68	23.9	.4					
	4	66	.3	.6	13.77	.93	109	9	0
	5	60	22.8	.5					
	6	55	21.7	.5	12.90	.34	97		
	7	50	.1	.5					

Location: HASTINGS RIVER NO. 1 - PORT MACQUARIE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
3. xi	8 pm	44	21.1	22.5	13.17	5.34	97	8	0
	9	41	.1	.5					
	10	37	19.4	.3	17.58				
	11	35	18.3	.3					
	12 m	39	17.8	.4	10.45			7	3
4. xi	1 am	45	.8	.3					
	2	48	18.3	.1	.68	4.98	88		
	3	52	17.8	.0					
	4	54	16.7	21.7	13.04	.68	84	7	0
	5	54	.7	.6					
	6	52	15.6	.7	11.12	.85	85		
	7	48	.6	.6					
	8	43	17.8	22.0	9.39	5.37	93	5	2

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
18.viii	9 am	37	11.9	13.5	11.13	5.65	86	3	1
	10	47	16.4	.9					
	11	51							
	12 n	54	22.0	14.0	.69	.70	91		0
	1 pm	57	20.0	.0	.73	.84	90	8	0
	2	60	.0	15.5					
	3	60	19.0	.5	12.05	.73	91		0
	4	60	18.0	.0					
	5	56	.0	14.0	.51	.33	83	8	8
	6	54	15.6	15.2					
	7	51	.0	14.9	.89				4
	8	49	9.4	15.0					
	9	48	7.2	14.5	.80	.61	88	5	4
	10	47	.2	.5					
19.viii	11	50	.2	.3	.31	4.84	76		10
	12 m	54	.9	.2					
	1 am	57	6.1	.4	.41	.35	68	5	6
	2	60	3.3	.6					
	3	61	8.9	.6	.75	.90	77		8
	4	59	6.7	.3					
	5	56	9.7	.6	.82	.80	76	8	6
	6	53	.7	.5					
	7	50	.7	.2	.67	.62	72		6
	8	48	11.7	.4					
	9	46	12.8	.3	.97	5.65	89	8	6
1947									
29.i	1 pm	42	35.3	29.5	12.71	5.09	103	22	12
	2	46	.1	28.8					
	3	48	33.3	.0	14.41	.03	101		
	4	48							
	5	45	24.5	27.5	.36	4.36	87	32	24
	6	42	.7	.2					
	7	39	.5	.2	13.75	.56	90		
	8	37	.5	.1					
	9	34	23.9	.4	.01	.65	92	21	9
	10	33	.1	.5					
	11	32	22.1	.5	12.61	.59	90		
	12 m	33	21.1	.5					

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
30.1	1 am	36	21.1	27.2	13.35	3.88	76	25	
	2	41	.1	.0					
	3	45	.0	26.2	.27	.92	76		
	4	46	.4	.5					
	5	46	.2	.0	.45	.16	61	35	7
	6	43	.7	.0					
	7	41	.7	.0	12.87				
	8	39	23.9	.0					
	9	36	.9	.5	.28	4.26	82	35	4
	10	35	25.1	.5					
	11	33	.7	.5	.38	.92	95		
	12 n	33	26.5	.5					
	1 pm	37	.0	27.3	13.15	.05	80	35	
12.1x	11 am	25	21.7	17.0	4.49	5.51	83	14	199
	12 n	23	.7	18.0					
	1 pm	20	23.3	17.7	5.75	.75	89		
	2	18	24.4	18.4					
	3	17	23.3	17.8	.02	.42	83	14	255
	4	19	20.0	18.3					
	5	24	18.6	17.4	.93	.67	87		
	6	30	16.4	.8					
	7	36	15.0	.7	6.76	.80	91	17	168
	8	42	13.6	.6					
	9	45	12.8	.4	.66	.44	84		
	10	44	13.3	.6					
	11	39	.9	.0	5.33	6.04	92	15	193
	12 m	33	12.8	.0					
13.1x	1 am	31	.8	16.8	.60	5.44	83		
	2	27	.2	.8					
	3	25	.8	.7	4.28	.73	101	11	266
	4	22	.8	.7					
	5	20	.5	.6	.46	.88	88		
	6	22	.8	.4					
	7	26	.8	.8	5.75	.14	78	17	195
	8	30	15.0	.5					
	9	33	16.7	17.0	8.02	4.85	71		
	10	33	18.9	.2					
	11	30	21.1	.6	5.30	5.54	85	11	140

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948									
22.1	8 pm	42	23.5	24.5	0.31	5.54	91	19	29
	9	38	21.0	.2					
	10	33	20.0	.0	.21	.85	95		
	11	30	19.5	23.8					
	12 m	27	.2	.8	.16	.65	92	22	70
23.1	1 am	24	.0	.7					
	2	24	.0	.7	.10	.80	94		
	3	29	18.9	.5					
	4	35	.2	.5	.13	.52	89	26	127
	5	43	.6	.5					
	6	48	.9	24.5	.26	.30	87		
	7	53	21.5	.5					
	8	56	31.0	.6	.32	.44	90	27	35
	9	55	24.9	.0					
	10	52	25.5	.9	.46	.57	92		
	11	46	27.0	.4					
	12 n	42	.9	.8	.31	.52	91	21	40
	1 pm	39	28.4	.9					
	2	35		25.2	.21	.98	100		
	3	31	29.0	.1					
	4	31	28.5	.1	.17	.94	99	26	10
	5	33	27.5	.3					
	6	38	26.0	.4	.20	.90	98		
	7	42	23.3	.3					
	8	44	21.5	.3	.28	.46	91	14	10
24. x	8 am	17	15.5	19.1	2.41	5.58	85	2	5
	9	19	18.0	.8					
	10	22	20.0	20.2	3.38	.61	88		3
	11	28	21.8	21.8					
	12 n	34	24.0	.2	.77	6.00	97	6	4
	1 pm	39	22.5	.0					
	2	44	.5	.5	4.81	5.90	97		4
	3	47	20.5	.0					
	4	45	.0	.2	5.19	.90	96	11	5
	5	41	22.0	.4					
	6	36	19.2	.4	4.95	.90	96		3
	7	32	16.5	.0					

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948									
24. x	8 pm	29	14.5	21.0	3.81	6.05	97	6	5
	9	26	12.5	20.9					
	10	23	.2	.8	2.52	5.91	93		5
	11	19	11.5	.8					
	12 m	18	9.8	.5	.31	.78	91	3	5
25. x	1 am	21	8.4	.8					
	2	25	10.2	.1	3.01	.82	91		
	3	28	.2	.0					
	4	31	.7	.4	.26	.66	89	6	0
	5	25	9.6	19.9					
	6	22	8.2	.7	2.89	.57	87		
	7	18	12.0	.7					
	8	16	15.6	.9	.64	.66	88	2	0
1949									
24. i	10 am	22	24.4	26.0	4.71	4.05	71	16	0
	11	20	25.6	.2					
	12 n	17	28.9	.7	.44	.35	77		
	1 pm	14	33.9	27.4					
	2	12	30.6	.5	.17	.53	81	12	0
	3	11	32.2	.4					
	4	15	30.0	.0	.15	.87	87		
	5	18	28.3	.0					
	6	21	.0	.0	5.56	.50	81	12	0
	7	26	26.7	.0					
	8	22	23.6	26.8	.74	.40	79		
	9	22	.9	.5					
	10	19	.9	.4	.07	.52	80	13	0
	11	17	.0	.3					
	12 m	12	21.7	.3	4.15	.87	86		
25. i	1 am	6	.1	.2					
	2	5	20.6	.0	.15	.70	82	8	0
	3	7	21.7	.5					
	5	22	.1	25.5		.44			
	6	29	.7	.5	.85	.20	73	14	0
	7	33	.7	.6					
	8	36	22.2	26.0	6.43	3.78	68	26	13
	9	37	25.6	.0					
	10	34	26.1	.0	.18	.84	69	14	0

Location: MANNING RIVER NO. 6 - THREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
27.iii	9 am	49	20.0	19.9	0.05	4.95	75	17	116
	10	49	21.5	.9					
	11	45	16.5	20.1	.05	.92	75		
	12 n	42	20.0	.1					
	1 pm	40	24.0	.1	.04	.85	74	23	182
	2	37	21.0	.2					
	3	36	20.6	.5	.05	.83	74		
	4	33	17.0	.0					
	5	32	16.5	19.8	.04	5.05	76	15	202
	6	31	.5	.8					
	7	33	17.3	.8	.05	4.98	75		
	8	36	16.0	.8					
	9	39	.0	.6	.05	.97	75	18	266
	10	41	.0	.8					
	11	39	15.8	.8	.04	5.13	78		
	12 m	37	16.0	.6					
28.iii	1 am	36	15.0	.6	.05	4.97	75	20	316
	2	34	.0	.2					
	3	32	.5	.4	.05	5.23	79		
	4	31	.0	.4					
	5	30	14.4	.2	.05	.23	78	18	356
	6	31	.7	.3					
	7	36	15.2	.2	.04	.22	78		
	8	42	17.6	.2					
	9	46	18.7	.2	.04	.20	78	16	339
3.ix	10am	27	21.0	14.4	0.05	6.35	87	15	213
	11	26	22.5	.0					
	12 n	24	24.7	.3	.04	.27	86		
	1 pm	22	27.5	.3					
	2	22	.0	.3	.05	.22	85	23	215
	3	22	24.2	.3					
	4	30	21.7	.2	.06	.07	83		
	5	36	20.1	13.9					
	6	43	18.0	14.4	.06	.17	85	17	213
	7	49	17.9	.0					
	8	51	.5	.1	.05	.39	87		
	9	49	16.8	.0					

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
3. ix	10 pm	45	18.6	13.9	0.05	6.43	87	17	213
	11	41	15.8	14.0					
	12 m	36	.0	.1	.05	5.91	80		
4. ix	1 am	32	14.8	.2					
	2	27	15.1	.3	.06	.91	81	18	238
	3	24	.0	.2					
	4	21		.2	.06	.86	80		
	5	20	14.1	.1					
	6	24	15.0	.1	.05	6.50	88	19	211
	7	30	14.8	.1					
	8	31	.4	.1	.06	.09	83		
	9	32	.2	.2					
	10	30	.9	.1	.06	5.67	77	11	210
1950									
5. i	11 am	51	32.0	26.4	3.71	5.28	93	18	6
	12 n	52	.0	.4					
	1 pm	49	33.1	.6	4.68	4.74	84		
	2	42	30.4	.6					
	3	38	32.0	27.3	3.56	5.39	96	11	13
	4	33	31.8	.5					
	5	28	.0	.5	2.79	.62	99		
	6	24	29.5	.4					
	7	23	27.0	.3	1.70	.47	95	11	18
	8	24	24.0	.5					
	9	28	22.5	26.8	2.13	4.82	84		
	10	46	.0	.7					
	11	36	21.0	.7	.64			12	20
	12 m	38	20.9	.7					
6. i	1. 30 am	29	19.6	.4	.42	.87	84		
	2	28	.0	.4					
	3	23	18.8	.4	.00	.82	83	13	40
	4	21	19.5	.4					
	5	18	18.5	.2	3.48	3.98	69		
	6	16	25.3	.2					
	7	21	24.0	.5	1.82	4.53	78	12	10
	8	27	25.9	.7					
	9	36	29.5	27.1	2.24	.93	85		
	10	44	31.8	.0					
	11	49	35.0	.8	3.00	5.00	89	10	18

Location: MANNING RIVER NO. 6 - TAREE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950									
6.xi	8 am	47	18.3	19.3	1.51	5.23	80	9	14
	9	41	21.1	.5					
	10	35	.7	.5	0.70	.75	87		
	11	29	24.4	.6					
	12 n	25	30.0	.9	.41	.92	90	45	11
	1 pm	21	21.1	20.1					
	2	21	22.2	21.1	.37	6.05	94		
	3	29	21.1	20.5					
	4	37	.7	21.1	.54	.37	99	26	9
	5	46	18.3	20.3					
	6	52	19.7	.2	.79	.20	95		
	7	55	.4	.1					
	8	54	15.6	19.9	.91	.11	93	28	13
	9	47	13.3	20.0					
	10	39	.3	19.9	.74	.18	94		
	11	33	.3	.8					
	12 m	27	12.8	.6	.46	5.57	84	33	10
7.xi	1 am	21	.2	.4					
	2	17	11.7	.2	.26	.53	83		
	3	15	.1	18.0					
	4	20	.4	19.0	.14	.85	87	14	8
	5	30	.1	18.8					
	6	39	12.2	.9	.32	6.09	91		
	7	45	13.9	19.2					
	8	48	16.1	.4	.65	5.96	90	15	11

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1938									
30.v	10 am	38	14.9	17.8	16.61			13	27
	11	34	15.6	18.0	14.45			8	17
	12 n	27	.9	.1	11.90			8	7
	1 pm	20	16.3	.3	10.46			8	17
	2	12	.6	.6	9.85			6	7
	3	6	.6	.6	7.80			10	7
	4	2	15.8	.5	6.91			6	0
	5	9	13.4	17.9	7.74			4	2
	6	19	10.7	.8	17.60			5	0
	7	30	9.6	.5	19.54			4	0
	8	42	8.9	18.0	.43			10	12
	9	52	.8	.1	.27			9	12
	10	58	.8	.1	18.55			10	12
	11	54	9.4	17.9	17.77			13	7
	12 m	45	10.0	.2	14.00			10	17
31.v	1 am	36	.3	.6	13.00			10	47
	2	27	8.9	16.7	11.73			8	
	3	19	7.4	.5	.90			9	27
	4	11	6.9	.0	.40			8	
	5	1	.0	15.1	10.23			6	37
	6	0	5.3	14.8	12.17			5	17
	7	9	.9	15.5	17.88			4	9
	8	17	11.3	16.0	19.32			5	7
1942									
27.vi	9 am			16.0	19.33	5.07	88	4	7
	10	39		15.5					
	11	35		.1	18.22	.63	95	1	7
	12 n	20		.3					
	1 pm	3		16.7	.06	6.90	120	1	2
	2	10		.5					
	3	14		.8	.14	7.10	124	1	2
	4	29		15.8					
	5	39		.4	17.52	6.10	103	1	2
	6	48		16.4					
	7	75		17.2	19.40	5.63	100	4	8
	8	75		.7					
	9	75		.6	.61	.25	94	3	2

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
27.vi	10 pm	60		17.3					
	11	48		16.8	19.39	4.94	87	1	7
	12 m	36		.1					
28.vi	1 am	24		15.6	18.76	.08	70	0	2
	2	12		.5					
	3	6		.5	.73	.72	81	0	2
	4	6		.3					
	5	9		.3	.77	3.56	61	0	2
	6	24		.5					
	7	36		.5	.23	5.27	90	0	2
	8	48		16.0					
	9	48		.7	19.30	4.92	87	1	7
25.vii	9 am	39	12.5	14.0	12.88	5.56	87	0	
	10	21	.5	12.3					
	11	18	13.3	13.7	13.02	6.08	94	0	
	12 n	11	15.2	14.0					
	1 pm	9	18.1	.4	12.62	.60	103	0	
	2	15	17.7	.0					
	3	24	.9	.2	9.82	.44	98	0	
	4	35	.6	.3					
	5	46	14.4	15.0	16.61	5.53	92	0	
	6	56	13.2	14.9					
	7	61	.4	15.0	18.48	.28	89	0	
	8	59	12.0	.0					
	9	48	11.9	14.0	.44			1	
	10	39	12.0	.5					
	11	33	.0	13.8	17.59	4.96	81	0	
	12 m		11.6						
26.vii	1 am	18	.9	14.0	16.35	5.38	87	0	
	2	10	13.3	13.8					
	3	12	11.1	.6	14.60			0	
	4	18	.1	.5					
	5	24		.5	12.38	.77	89	0	
	6	36		.6					
	7	45	10.5	.8	16.09			0	
	8		.8						
	9	39	11.5	.8	.24	4.93	80	0	

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
25.viii	12 n	42	15.8	15.9	12.87	4.46	72	0	8
	1 pm	35	17.9	16.0					
	2	29	15.9	.1	9.15	5.56	87	0	16
	3	28	17.0	.7					
	4	37	.0	.4	7.81	6.45	100	3	11
	5	47	15.5	.4					
	6	60	14.4	.3	15.14	.04	101	2	16
	7	71	.1	.2					
	8	80	12.9	.5	18.61	4.63	81	1	16
	9	83	13.0	.3					
	10	76	10.9	.5	19.06	3.34	59	3	16
	11	67	.1	15.6					
	12 m	55	9.8	.6	15.54	.59	60	0	16
26.viii	1 am	46	8.5	.7					
	2	36	.6	.5	12.86	4.39	70	2	11
	3	27	7.8	.3					
	4	23	.3	.3	10.69	5.54	86	0	4
	5	30	.9	.1					
	6	42	8.0	.2	.72	.55	87	8	23
	7	53	.2	14.8					
	8	62	9.5	15.7	15.15	.88	97	0	4
	9	66	13.9	.2					
	10	66	16.3	.9	18.63	.41	93	4	20
	11	56	17.0	17.0					
19.ix	9.30 am	24	23.0	16.2	14.04	5.93	98	0	0
	10	24	.0	.4					
	11	27	22.7	17.4	11.21	6.16	102	0	8
	12 n	32	29.0	.1					
	1 pm	40	30.0	.1	12.38	5.73	94	0	11
	2	49	28.8	.6					
	3	57	29.4	.8	18.74	.90	106	0	11
	4	62	28.5	.7					
	5	64		.6	19.46	.87	105	2	3
	6	59	19.6	.5					
	7	51	16.9	.4	.24	.71	102	0	6
	8	42	15.5	.4					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
19.ix	9 pm	34	16.3	17.4	17.19	5.53	96	1	14
	10	26	13.2	.2					
	11	20	11.9	.1	16.05	.50	94	0	3
	12 m	18	.2	16.9					
20.ix	1 am	23	10.7	17.5	12.06	.60	92	0	6
	2	30	9.3	.6					
	3	39	.4	.6	13.32	.78	97	0	3
	4	44	.8	.3					
	5	48	8.8	16.8	16.93	.32	91	1	0
	6	48	10.2	.6					
	7	43	12.6	.3	14.67	4.93	82	0	0
	8	37	15.8	.8					
	9	30	19.0	17.0	.26	5.69	95	0	3
17.x	9 am	18	16.3	17.1	2.04	3.92	58	0	32
	10	17	17.3	.4					
	11	23	19.7	.6	1.75	.91	60	0	25
	12 m	28	21.7	.8					
	1 pm	37	22.6	.9	.68	.89	58	0	32
	2	45	24.5	18.4					
	3	52	.6	.5	2.35	.84	58	0	39
	4	54	23.6	.5					
	5	51	22.6	19.3	1.88	.93	60	0	35
	6	45	21.0	.9					
	7	37	.1	.3	.91	.82	58	0	25
	8	30	18.0	21.4					
	9	23	17.1	20.5	.86	4.35	68	0	15
	10	17	16.6	19.8					
	11	13	.1	.3	.88	3.65	56	0	15
18.x	12 m	12	15.5	18.7					
	1 am	18	.6	.3	.78	.85	58	0	18
	2	26	14.9	.1					
	3	33	.8	.3	.47	.79	57	0	39
	4	39	.0	.4					
	5	42	13.4	.4	.56	.61	54	0	46
	6	39	.0	.0					
	7	33	14.8	17.4	.63	.69	54	0	28
	8	28	16.3	.0					
	9	24	18.6	.4	.58	.82	56	0	28

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
13. xi	8 am	17	21.3	21.3		2.68		0	32
	9	24	22.2	.7					
	10	34	23.6	.9	1.69	3.14	50	0	26
	11	44	25.0	.8					
	12 n	54	.0	.7	9.42	4.70	81	0	6
	1 pm	60	26.5	.8					
	2	63	25.0	20.4	16.44	5.30	96	0	3
	3	54	26.0	24.0					
	4	47	.0	.9	7.88	.15	92	0	11
	5	39	25.5	.4					
	6	30	23.0	.0	.13	.56	97	0	8
	7	19	.2	23.6					
	8	12	22.0	.1	.33	.64	97	0	6
	9	8	21.7	22.5					
	10	12	.3	23.0	2.95	4.62	76	0	32
	11	22	.9	22.9					
	12 m	29	.0	.9	.34	.33	71	0	35
14. xi	1 am	36	20.7	23.1					
	2	42	.5	22.6	4.29	.23	70	0	17
	3	42	.2	.6					
	4	37	19.8	.0	3.83	3.49	57	0	23
	5	27	.6	20.5					
	6	22	.5	.5		.57		0	28
	7	18	22.5	.5					
	8	15	24.2	21.2	2.76	.56	57	0	11
11. xii	8 am	21	21.1	21.4	6.57	4.08	68	0	23
	9	31	.1	.4					
	10	41	.0	22.1	12.32	.55	81	0	1
	11	53	.8	20.6					
	12 n	60	22.6	.8	18.43	.49	84	0	5
	1 pm	60	23.0	.8					
	2	52	22.9	21.9	.52	5.92	113	0	3
	3	44	23.6	23.3					
	4	35	.1	24.3	14.12	.65	107	0	5
	5	25	22.9	.5					
	6	15	.3	.2	13.92	6.85	129	0	8
	7	6	21.6	23.8					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
11. xii	8 pm	0	20.7	23.4	14.22	6.60	123	0	3
	9	6	.5	.4					
	10	16	.4	.5	8.70	5.93	105	0	3
	11	26	.7	.5					
	12 m	34	.5	.4	11.39	6.07	110	0	5
12. xii	1 am	39	.3	22.1					
	2	38	19.5	21.9	16.93	5.08	95	0	3
	3	33	17.8	22.5					
	4	26	18.9	.3	11.81	4.80	86	0	3
	5	19	20.0	21.8					
	6	23	19.9	.5	10.71	.05	71	0	1
	7	10	20.3	.4					
	8	13	21.0	.6	6.10	.48	74	0	23
1943									
8. i	8 am	34	21.9	23.1	14.94	4.15	78	0	1
	9	45	24.2	21.4					
	10	57	25.0	.0	18.96	5.14	97	2	1
	11	66	24.6	20.5					
	12 n	66	.6	.0	19.40	4.60	86	6	8
	1 pm	55	25.0	21.5					
	2	46	26.8	23.5	18.92	.30	85	2	3
	3	38	.6	25.0					
	4	27	.5	26.3	17.73	.22	86	0	12
	5	16	24.5	25.5					
	6	8	25.3	.0	.70	5.64	112	0	0
	7	3	24.2	24.5					
	8	11	23.9	.9	15.85	.07	98	0	
	9	22	22.1	25.0					
	10	31	21.4	24.6	16.29	.16	100	0	3
	11	39	.1	23.2					
	12 m	46	.1	20.8	19.06	4.98	94	0	0
9. i	1 am	42	.1	21.0					
	2	35	20.8	22.6	17.85	.51	85	0	8
	3	27	.6	.8					
	4	15	.6	.6	.34	3.81	73	0	6
	5	11	.7	.7					
	6	3	21.0	.9	16.85	.12	59	0	0
	7	15	.2	23.5					
	8	24	.4	21.4	15.41	.74	68	0	3

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
5.11	8 am	48	22.6	22.5	19.26	3.92	76	3	0
	9	57	.9	21.9					
	10	66	23.2	.4	.54	4.54	87	0	0
	11	67	.8	20.1					
	12 n	58	24.0	21.8	.54	.94	95	1	0
	1 pm	48	26.0	23.1					
	2	37	24.8	25.0	.36	5.00	101	6	0
	3	28	.9	26.7					
	4	18	25.3	27.5	.11	.70	120	0	0
	5	8	.9	.8					
	6	4	.4	.7	18.99	6.50	137	0	0
	7	13	24.9	26.6					
	8	24	23.9	.5	.68	5.10	105	0	0
	9	34	24.8	.0					
	10	42	.2	23.7	19.29	.10	101	0	0
	11	48	23.6	22.7					
	12 m	45	.2	.7	.44	4.93	96	1	0
6.11	1 am	38	.0	.9					
	2	29	22.9	23.6	.26	.18	83	1	0
	3	21	.7	24.1					
	4	12	.6	.1	18.99	2.85	57	5	0
	5	9	.4	.0					
	6	18	.0	.5	.86	3.62	72	0	0
	7	23	21.9	.5					
	8	36	23.9	.3	19.01	.55	71	0	0
5.111	8 am	52	20.7	21.5	19.94	4.05	78	4	0
	9	63	22.8	.3					
	10	58	24.4	.6	.79	.63	89	3	0
	11	51	25.2	22.0					
	12 n	42	27.0	23.0					
	1 pm	31	30.0	24.5					
	2	23	29.0	26.0	20.02	5.10	105	0	0
	3	12	28.0	27.5					
	4	3	27.2	.8	.07	4.94	107	0	0
	5	6	25.4	28.0					
	6	15	23.8	25.9	19.97	5.45	109	0	0
	7	27	.3	.5					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (m.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
5.111	8 pm	36	23.1	25.0	19.92	5.40	107	0	0
	9	42	.5	23.6					
	10	49	22.3	.0	.83	.10	101	0	0
	11	43	21.9	.7					
6.111	1 am	25	.0	28.0	.88				
	2	18	20.0	25.5	.88	3.58	70	0	0
	3	10	.0	23.0					
	4	2	.0	.0	.91	2.79	55	1	9
	5	12	.5	25.0					
	6	24	.0	24.0	.91	3.79	76	7	4
	7	36	19.8	23.5					
	8	45	20.0	22.2	.85			1	0
2.1v	8 am	52	18.9	22.5	19.70	3.93	77	6	8
	9	44	20.8	.2					
	10	33	23.8	.7	.61	4.01	78	5	4
	11	25	.3	24.1					
	12 n	17	24.0	23.8	.30	5.37	107	7	2
	1 pm	9	.0	24.2					
	2	5	22.3	.5	.30	6.27	126	4	4
	3	9	21.9	.3					
	4	19	.2	.3	.13	5.63	113	2	15
	5	28	20.6	23.3					
	6	37	19.9	.4	.32	.07	100	10	8
	7	44	.0	22.8					
	8	48	18.2	.5	.60	4.91	96	5	2
	9	44	.0	23.3					
	10	36	17.2	22.5	.37	.67	91	6	8
	11	29	16.8	.4					
	12 m	22	.5	.4	.10	3.88	75	3	2
3.1v	1 am	14	.5	.5					
	2	9	.1	21.3	18.70	2.53	48	2	2
	3	13	.0	.5					
	4	24	.0	22.0	.82	4.22	81	2	2
	5	33	.0	.0					
	6	43	.0	21.4	19.15	.10	78	7	0
	7	52	.3	.4					
	8	57	17.0	.5	.46	.26	82	4	0

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
9.v	12 n	42		17.4	19.82	4.68	84	8-0	3
	1 pm	43		.8					
	2	39		.7	.86	5.50	99	5-1	0
	3	33		.7					
	4	27		.8	.76	.69	103	5-1	6
	5	23		.8					
	6	20		.8	.67	.96	108	5-4	0
	7	21		.6					
	8	30		.4	.71	4.60	83	4-4	3
	9	33		.4					
	10	42	14.8	.6	.77	3.72	67	6-1	0
	11	49	13.2	18.0					
	12 m	55	14.5	.3	.83	4.07	63	5-2	3
10.v	1 am	56	.0	.0					
	2	52	13.5	.5	.83	.58	71	7-2	0
	3	43	.4	17.9					
	4	36	.1	.1	.77	.61	82	8-0	0
	5	30	12.8	15.5					
	6	23	.7	16.1	.67	.49	79	6-0	0
	7	18	.8	15.9					
	8	16	14.4	.8	.62	.30	75	6-0	3
	9	21	16.0	16.6					
	10	25	18.2	.9	.68	3.38	60	3-6	0
	11	32	.7	17.0					
	12 n	37	19.9	.4	.60	4.64	83	6-3	0
18.vi	8 am	43	11.3	13.5	12.26	5.66	87	0-1	8
	9	48	12.3	14.9					
	10	46	13.9	.4	15.61	.13	83	0-0	3
	11	39	16.0						
	12 n	43	.8		12.17	.67		0	8
	1 pm	24	17.1						
	2	16	.1		11.24	7.31		0-0	3
	3	12	15.9						
	4	16	14.7	12.8	5.74	6.89	97	0	8
	5	26	13.0	.8					
	6	37	12.9	.9	6.83	7.00	100	0	14
	7	49	11.8	14.3					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
18.vi	8 pm	59	11.0	15.3	17.15	5.70	96	1	8
	9	66	.5	.4					
	10	66	.2	16.1	18.52	.53	96	0-3	0
	11	60	10.9	15.6					
	12 m	51	.8	.0	17.97	.25	89	3	8
19.vi	1 am	40	.3	14.5					
	2	33	.1	.0	16.25	.34	87	0	3
	3	23	.1	12.6					
	4	11	8.3	.9	13.04	.57	85	0-0	0
	5	10	7.5	13.0					
	6	19	5.1	12.1	8.81	6.09	87	0	6
	7	27	4.0	.3					
	8	37	8.5	.5	10.19	5.97	88	0	14
16.vii	8 am	44	11.0	13.6	18.08	5.40	89	1-3	0
	9	40	13.0	.1					
	10	33	14.5	.1	15.22	6.08	96		
	11	25	15.0	12.7					
	12 m	18	.2	.9	14.70	7.41	116	0-0	3
	1 pm	11	14.3	13.2					
	2	8	.1	.3	.31	8.20	128		
	3	15	13.8	12.5					
	4	26	.8	.5	10.68	7.44	110	0-0	3
	5	37	12.9	.5					
	6	47	10.8	13.6	17.41	5.93	97		
	7	57	8.4	12.0					
	8	63	.8	.0	18.97	.71	92	0-1	0
	9	63	.1	.2					
	10	54	9.0	14.0	19.00	2.79	47		
	11	45	7.9	13.6					
	12 m	36	.5	.0	17.48	5.40	87	0-0	0
17.vii	1 am	27	.3	12.5					
	2	15	.9	.8	16.88	.13	82		
	3	8	.3	11.8					
	4	7	.8	.7	.21	.51	85	0-0	0
	5	16	6.4	.5					
	6	25	5.6	.6	13.29	6.13	92		
	7	35	.8	12.0					
	8	42	7.8	.4	17.00	5.70	91	0-3	0

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
4. xi	7 am	21	18.2	20.1	12.98	4.56	79	0	4
	8	16	19.7	19.8					
	9	13	21.7	.9	.46	5.15	89		4
	10	16	22.3	21.1					
	11	21	23.2	20.8	8.94	.34	90	0	4
	12 n	28	24.0	.9					
	1 pm	36	23.9	21.0	12.40	.44	95		4
	2	43	22.6	.0					
	3	49	.7	20.7	18.30			0-1	9
	4	50	20.7	.7					
	5	45	.4	21.0	.46	4.49	84		4
	6	39	19.4	.5					
	7	30	18.5	22.0	14.17	6.01	109	0-3	4
	8	22	.2	.0					
	9	15	17.8	21.8	13.37	5.62	101		7
	10	8	.9	.6					
	11	3	.5	.2	.18	.07	90	0-1	4
	12 m	6	.1	.6					
5. xi	1 am	14	14.8	.8	8.81	.80	99		7
	2	22	.5	22.0					
	3	26	13.0	21.7	11.01	.75	99	0-0	7
	4	33	.7	.5					
	5	36	14.2	20.4	14.04	.44	96		12
	6	33	.5	.5					
	7	28	18.0	21.0	11.98	.36	94	0-0	9
1944									
13. i	8 am	30	24.0	20.5	3.14			0-0	6
	9	39	22.5	24.5					
	10	48	.2	23.3		3.60			
	11	57	.5	22.8					
	12 n	60	.8	.8	17.47	4.53	87		2
	1 pm	54	23.5	.7					
	2	47	25.8	24.8		3.98			
	3	39	.4	25.8					
	4	30	.0	26.3	9.24	4.36	81	0-0	2
	5	21	24.0	27.0					
	6	13	23.4	26.2		5.25			
	7	9	.3	.0					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
13.1	8 pm	14	22.0	25.4	4.94			0-0	4
	9	24	23.0	.4					
	10	30	22.5	.5		4.33			
	11	38	21.8	.5					
	12 m	42	.1	24.5	8.87	.07	73	0-0	0
14.1	1 am	45	20.5	.0					
	2	34	.0	.0					
	3	28	19.7	.1					
	4	21	.7	23.3	6.31			0-0	0
	5	15	17.8	.0					
	6	12	20.0	.7					
	7	15	.3	24.9					
	8	23	21.8	25.0	2.43			0-0	6
	9	31	23.1	.1					
	10	42	.4	.0					
	11	50	25.2	24.2					
	12 n	54	.2	.2					
	1 pm	51	24.8	.7					
	2	48	.8	25.0					
	3	44	26.0	28.6					
	4	29	25.6	27.9					
	5	21	.0	29.0					
	6	12	.0	28.2					
	7	8	.0	27.1					
	8	10	24.8	.1					
7.111	9 pm	40	18.5	24.3	17.58	4.26	84		9
	10	39	17.8	.3					
	11	33	16.8	.0		.50			35
	12 m	27	.5	.0					
8.111	1 am	18	.2	23.6	12.97	.06	75		32
	2	9	15.8	22.8					
	3	12	14.9	.7		3.91			50
	4	15	.9	23.5					
	5	24	13.8	24.0	10.19	.51	63		15
	6	32	.3	23.8					
	7	42	.9	.9		4.06			20
	8	48	17.5	24.6					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944	8. iii	9 am	54	20.6	22.6	19.04	3.45	67	9
		10	53	22.8	.8				0
		11	42	25.5	23.6		.82		
		12 n	36	27.5	24.5				
		1 pm	30	25.5	25.0	16.10	4.70	92	12
		2	21	26.2	26.0				
		3	12	.2	.5		.56		12
		4	9	25.3	27.0				
		5	14	24.9	25.2	12.27	5.39	102	17
		6	21	25.0	26.3				
	3. v	7	30	23.5	25.0				10
		8	39	.1	.0				
		9	48	22.9	24.1	17.41	.28	103	16
		7 pm	45	12.3	16.0	19.69	5.62	99	15
		8	42	11.7	15.9				
		9	37	.5	.5				
		10	30	.4	.2	.72	.25	91	9
		11	24	10.0	14.4				
		12 m	21	.5	.0				
	4. v	1 am	21	.0	13.5	.59	4.91	82	20
		2	25	.4	14.0				
		3	33	.2	13.9				
		4	38	.3	14.0	.66	.33	73	12
		5	45	.4	13.9				
		6	51	9.8	.5				
		7	48	10.7	.5	.80	5.04	85	15
		8	45	11.2	.9				
		9	37	12.9	14.7				
		10	30	13.9	13.3	.70	.60	93	23
		11	24	14.7	.3				
		12 n	18	16.3	14.6				
		1 pm	13	.0	.0	.64	6.61	112	15
		4	30	12.9	13.4	.54	.19	103	20
		5	39	.3	.5				
		6	45	.0	.0				
		7	48	11.7	14.0	.86	5.88	100	15

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
13. vii	9. 30 pm	21	13.5	13.6	16.59	5.79	94	0-0	6
	10. 30	20	12.8	.5					
	11. 30	26	.7	.5		6.09			6
14. vii	12. 30 am	36	.4	.5					
	1. 30	39	.4	.5	15.94	5.87	94	0	2
	2. 30	45	.1	.5					
	3. 30	51	10.0	.7		3.49			6
	4. 30	48	9.5	.8					
	5. 30	45	.0	.5	17.05	4.75	77	0-2	6
	6. 30	36	8.5	12.7					
	7. 30	30	.5	.7		5.88			8
	8. 30	24	.7	.7					
	9. 30	18	10.2	.5	16.06	.85	92	0-0	5
	10. 30	15	12.6	.4					
	11. 30	18	11.4	.5		6.16			4
	2. 30 pm	38	.9	.6	15.47	.50	102	0-1	10
	3. 30	47	12.3	13.0					
	4. 30	52	.5	.3		.23			5
	5. 30	55	10.2	.2					
	6. 30	53	13.2	.3		5.98	98	0-7	12
	7. 30	48	11.4	13.0					
	8. 30	39	.6	12.9		.94			14
	9. 30	33	.6	.5					
	10. 30	25	.0	.4	16.96	.87	93	0-6	5
31. viii	8 pm	54	15.0	16.2	17.54	5.34	91	0-8	7
	9	48	11.9	15.9					
	10	40	.0	.6	8.30	.65	86	0-4	
	11	32	.4	.8					
	12 m	24	10.6	.8	.44	.05	78	0-1	4
1. ix	1 am	13	9.5	.4					
	6	33	.9	.7	6.22	.54	83	0-0	
	7	41	10.8	.6					
	8	43	13.0	.7	16.12	4.14	69	0-5	4
	9	42	14.7	.7					
	10	34	18.4	16.3	9.78	5.75	90	0-2	

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
1. ix	11 am	27	17.3	16.3					
	12 n	19	.2	.3	8.29	6.92	107	0-2	4
	1 pm	13	18.0	17.7					
	2	10	17.6	18.1	7.70	7.42	118	0-0	
	3	17	.2	17.2	5.06	6.20	94	0-0	4
	4	27	.0	.0	3.86	.65	100	0-0	
	5	36	16.4	.0					
	6	48	14.9	.4	14.03	.15	104	0-0	0
	7	57	12.3	.0					
	8	61	11.1	16.7	18.22	5.70	100	0-3	0
	9	58	10.5	.5					
2. ix	10	50	.2	.0	13.50	4.84	79	0-1	0
	11	40	.0	15.9					
	12 m	30	8.8	16.0	11.11	5.65	90	0-2	
	1 am	21	9.0	.1					
	2	12	8.5	15.8	10.71	.55	87	0-0	0
	3	5	.3	.3					
	4	5	6.7	.3	7.75	.88	89	0-0	
9. xi	5	15	7.1	.7					
	6	25	.5	.8	6.74	.62	85	0-0	0
	2.30 pm	39	22.2	19.5	19.79	5.41	101	0-6	3
	3.30	43	21.5	.5					
	4.30	47	22.8	.7	.79	.96	111		
	5.30	45	21.8	.7					
	6.30	39	20.2	.5	.78	.06	94	0-7	0
	7.30	32	19.0	.5					
	8.30	24	17.9	.8	.81	.21	97		
	9.30	18	.2	20.3					
10. xi	10.30	12	15.6	.3	.82	4.12	78	0-5	0
	11.30	6	13.2	.4					
	5 am	40	11.5	18.5	.80	.71	86	0-3	3
	6	41	16.0	.3					
	7	37	19.5	.5	.74	3.77	69		
	8	31	24.2	.7					
	9	27	27.0	19.4	.76	5.13	95	0-6	3
	10	21	28.8	20.2					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
10. xi	11 am	19	30.2	20.7	19.77	4.16	79		
	12 n	21	.4	.9					
	1 pm	27	32.5	.7	.84			0-4	3
	2	33	31.5	.5					
	3	38	.5	.5	.83				
	4	43	30.7						
	5	48	31.0	.7	.80	6.05	115	0-5	3
	6	47	29.5	.4					
	7	41	27.5	.6	.78	5.75	109		
	8	36	24.6	.5					
	9	28	22.5	.5	.79	4.70	89	1-2	3
	10	21	21.0	.5					
	11	15	19.0	.4	.86	3.79	72		
	12 m	12	17.5	.3					
11. xi	1 am	12	.5	.3	.78	2.52	47	1-4	3
	2	18	16.7	.3					
	3	26	15.9	.8	.87	4.80	91		
	4	33	.0	.7					
	5	40	14.0	.0	.87	.50	84	2-2	0
1945									
11. i	8.30 pm	36	22.0	23.2	19.87			0-4	0
	9.30	28	20.9	.1					
	10.30	23	.6	.0	.94				
	11.30	18	.7	.0					
12. i	12.30 am	13	.7	22.7	.87			0-5	0
	1.30	10	.7	.7					
	3.30	22	.2	.7	.89				
	4.30	35	.2	23.2	.96			2-0	0
	5.30	42	.5	.6					
	6.30	51	21.5	21.8	.57				
	7.30	54	.2	.6					
	8.30	53	.3	.5	.64			4-1	0
	9.30	48	.5	.7					
	10.30	39	.5	22.0	.60				
	11.30	30	22.0	.7					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
12.1	12.30 pm	21	22.5	23.5	19.48			0-6	0
	1.30	15	.2	.8					
	2.30	12	.2	24.1	.45				
	3.30	13	.2	.3					
	4.30	18	21.9	.1	.66			0-20	0
	5.30	26	.3	.0					
	6.30	32	20.9	23.6	.77				
	7.30	36	.8	.4					
	8.30	38	.8	.0	.72			0-3	0
22.111	12 n	12		24.3	19.84	5.10	103	0-2	3
	1 pm	17	22.3	.3					
	2	24	.4	.5	.83	4.32	87		
	3	29	.4	.5					
	4	33	21.9	.3	.93	.08	82	2	5
	5	36	.0	.9					
	6	34	.4	.0	.85	3.94	79		
	7	30	.3	.0					
	8	27	.9	23.7	.85	.70	74	1	3
	9	22	.5	.7					
	10	18	.3	.5	20.06	.92	78		
	11	18	20.8	.2					
	12 m	21	.7	.3	19.99	4.03	80	0	
23.111	1 am	27	.1	.5					
	2	33	19.2	.4	.91	3.98	79		
	3	42	18.6	22.5					
	4	47	.6	.0	.76	4.13	80	0	3
	5	50	17.5	.2					
	6	49	18.0	.2	.73	.28	83		
	7	43	19.1	.1					
	8	37	21.4	.1	.76	3.94	77	2	3
	9	29	24.1	.4					
	10	22	26.1	.9	.85	4.29	84		
	11	16	27.6	23.5					
	12 n	12	28.9	24.3	.90			0	3

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
9.v	5 pm	45	13.0	17.1	19.15	5.89	104	0-7	4
	6	53	11.8	.4					
	7	59	.0	.4	.45	3.82	68		
	8	52	8.3	.2					
	9	43	.9	16.8	.42	5.72	101	0-0	4
	10	37	9.8	.0					
	11	30	10.0	15.5	.11	3.58	62		
10.v	12 m	19	12.2	.4					
	1 am	9	11.9	.5	18.45	.48	59	0-5	4
	2	18	.8	.5					
	3	30	.0	.5	.83	.65	63		
	4	39	.0	.6					
	5	42	.4	.7	19.16			0-3	4
	6	51	.4	16.4					
	7	55	12.2	17.5	.53				
	8	56	14.0	18.0					
	9	50	18.0	.6	.52			0-6	4
	10	42	.3	17.1					
	11	33	20.6	.0	.31				
	12 n	24	22.5	.0					
	1 pm	15	23.4	.4	.07	6.37	113	0-6	26
	2	11	22.7	18.4					
	3	16	23.5	17.5	.17	.54	117		
	4	25	21.4	16.4					
	5	37	18.3	.3	.05	.00	105	0-6	4
12.vii	8.30 pm	45		13.5	6.22	6.17	90	0-0	28
	9.30	53	13.4	15.8					
	10.30	60	10.9	16.5	18.07				
	11.30	63	.0	.6					
13.vii	12.30 am	57	.1	.0	.57			1-3	5
	1.30	51	9.7	14.5					
	2.30	42	.1	13.6	10.39				
	3.30	33	.2	.9					
	4.30	25	.4	.7	9.83	5.25	79	0-0	13
	5.30	18	10.3	.5					
	6.30	12	11.1	.4	.39	.32	79		
	7.30	14	12.6	.1					

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
13. vii	8.30 am	24	13.6	12.9	5.97	6.38	93	0-0	23
	9.30	31	16.7	13.0					
	10.30	39	18.4	.4	7.55	5.67	84		
	11.30	44	.1	14.5					
	12.30 pm	42	19.0	15.4	15.69	.61	93	0-2	8
	1.30	40	17.0	14.4					
	2.30	34	.4	.6	8.77	7.10	107		
	3.30	27	16.9	15.0					
	4.30	22	15.7	14.5	7.83	.40	110	0-0	15
	5.30	18	13.6	.0					
	6.30	21	.4	13.9	5.80	.08	102		
	7.30	28	12.0	.6					
	8.30	37	.9	.9	.39	.25	104	0-0	28
6. ix	3 pm	10	16.1	16.4	16.66	8.56	146	0-0	7
	4	14	15.7	15.5					
	5	22	14.4	14.9	14.79	7.34	119		
	6	33	13.1	.9					
	7	44	10.9	15.2	17.54	6.72	113	0-2	5
	8	52	.3	.4					
	9	60	11.7	.3	19.12	5.75	99		
	10	57	.6	.3					
	11	48	.0	.6	.08	.57	96		5
	12 m	40	10.6	.0					
7. ix	1 am	30	9.2	14.5	17.88	.62	94		
	2	24	10.1	15.5					
	3	15	9.6	.1	.57	.34	90	1-3	5
	4	9	7.9	14.5					
	5	10	8.3	13.9	16.63	.55	90		
	6	18	.9	15.2					
	7	29	9.8	14.7	.02	.80	95	0-2	5
	8	36	12.0	15.1					
	9	43	13.4	.2	18.27	.66	96		
	10	46	15.0	14.8					
	11	41	16.9	15.2	.54	.66	97	0-5	7
	12 n	34	20.3	.0					
	1 pm	27	19.3	16.0	17.76	6.50	111		
	2	19	20.0	15.2					
	3	12	22.2	17.2	.28	7.12	124	0-4	5

Location: PORT STEPHENS - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
6. xi	8 pm	33	20.7	19.0	19.50	5.85	108	0-10	18
	9	37	.9	23.0					
	10	41	18.3	22.0	.66	.60	108		
	11	38	.8	21.8					
	12 m	33	17.3	.0	.61	.14	98	2-8	11
7. xi	1 am	25	19.4	22.1					
	2	18	20.0	.0	.58	4.31	83		
	3	11	19.7	21.8					
	4	9	17.0	.7	.48	3.24	62	2-9	15
	5	13	16.5	.6					
	6	21	.5	22.5	.53	4.38	85		
	7	30	21.0	.5					
	8	38	22.4	.4	.58	.65	91	1-8	18
	9	46	21.3	.2					
	10	48	22.3	21.2	.70	5.31	101		
	11	55	23.2	.5					
	12 n	42	24.4	22.3	.67	.60	108	2-9	18
	1 pm	37	23.5	23.0					
	2	29	.5	25.0	.70	.43	108		
	3	21	.3	.6					
	4	12	22.5	.6	.58	.94	122	1-8	15
	5	7	21.9	.2					
	6	8	20.9	24.8	.61	.62	114		
	7	15	.6	.8					
	8	23	.5	.5	.53	.31	107	0-10	11

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
27. vi	9 am	50	11.4	13.8	18.84	5.70	95	6	2
	10	38	14.5	14.0					
	11	25	22.0	.8	.37	.53	93	6	0
	12 n	13	26.6	.8					
	1 pm	6	18.6	.8	17.91	.55	93	5	0
	2	3	.5	.8					
	3	9	.6	.4	.60	.70	95	4	0
	4	23	21.6	.3					
	5	39	18.2	.5	18.38	.73	96	6	0
	6	55	.5	.4					
	7	66	.1	.6	.50	.23	88	6	0
	8	72	17.7	.8					
28. vi	9	69	.4	.9	.87	.81	99	7	2
	10	64	16.1	.9					
	11	49	.4	.6	.98	.79	98	2	2
	12 m	31	15.7	.6					
	1 am	19	16.2	.4	.48	.69	95	5	2
	2	9	14.8	.2					
	3		12.8	.2	17.86	3.41	57	6	4
	4	3	.8	.2					
	5	15	.8	.3	.93	5.31	88	11	4
	6	28	.8	.4					
	7	43	.3	.5	18.61	.29	89	9	4
	8	54	13.6	.5					
	9	57	14.7	.7	.72	.65	95	6	2
25. vii	9 am	37	11.1	13.5	16.39	5.67	91	0	
	10	25	12.2	.5					
	11	16	14.2	.5	15.56	.75	92	0	
	12 n	9	15.6	.6					
	1 pm	7	17.2	.6	.04	6.00	95	0	
	2	16	16.7	.6					
	3	27	18.3	.7	16.14	5.96	96	0	
	4	41	15.9	14.0					
	5	55	.9	.0	17.43	6.14	101	0	
	6	67	14.7	.0					
	7	73	.4	.0	18.03	5.97	99	0	
	8	71	11.7	.0					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
25.vii	9 pm	62	11.7	14.0	18.02	5.96	99	0	
	10	49	12.0	13.8					
	11	35	11.7	.8	16.92	.97	97	0	
	12 m	21	.1	.6					
26.vii	1 am	11	.1	.4	15.65	.93	94	0	
	2	6	12.2	.3					
	3	12	11.1	.4	14.98	.84	92	0	
	4	22	.1	.4					
	5	36	.1	.6	16.39	.76	93	0	
	6	48	.7	.5					
	7	56	10.6	.5	.85	.75	93	0	
	8	58	11.4	.4					
	9	53	12.8	.4	.98	.74	93	0	
25.viii	12 n	26	14.9	16.1	16.20	5.63	95	1	16
	1 pm	16	15.4	.2					
	2	7	.9	.2	15.35	.70	95	0	16
	3	7	16.9	.2					
	4	18	17.5	17.5	.42	.88	101	0	5
	5	29	15.5	15.7					
	6	45	11.6	16.2	16.71			0	8
	7	60	10.1	.2					
	8	70	11.0	.0	17.06	.56	95	0	8
	9	78	10.2	15.5					
	10	66	.1	.2	.73	4.64	78	0	0
	11	54	.0	.2					
26.viii	12 m	36	9.0	.0	.31	3.84	64	0	8
	1 am	36	8.5	.6					
	2	12	7.5	.7	16.14	5.55	90	0	12
	3	3	.2	.5					
	4	0	6.0	.4	15.00	.57	91	0	5
	5	3	.1	.1					
	6	26	9.0	.2	.91	.51	91	0	5
	7	36	.9	.1					
	8	51	10.1	.1	17.14			1	0
	9	59	11.5	.2					
	10	59	13.1	.5	.36	.41	91	0	20
	11	48	16.5	.8					
	12 n	36	.6	16.0	16.76	.67	96	0	20

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
26. viii	1 pm	25	19.8	16.8					
	2	12	17.0	15.9	15.75	5.63	94	0	32
	3	7	16.2	16.0					
	4	5	.5	.0	.06	.04	84	0	28
	5	17	.0	15.9					
	6	33	14.5	.8	16.40	3.35	56	0	23
	7	53	13.5	.8					
	8	63	.6	16.0	.66	4.25	72	5	23
	9	72	.3	.0					
	10	81	.1	15.6	15.50	3.92	65	1	36
	11	68	12.6	.5					
	12 m	54	11.2	.5	17.79	5.56	94	4	23
27. viii	1 am	39	10.2	.5					
	2	22	11.0	.6	16.65	.57	93	1	23
	3	10	10.2	.4					
	4	3	.0	.1	15.55	.48	90	0	28
	5	0	.0	14.9					
	6	6	.0	15.1	.50	.56	91	0	16
	7	17	11.7	.2					
	8	46	12.4	.2	17.17	.40	90	2	16
	9	57	13.5	.3					
	10	62	15.5	.3	.30			0	12
	11	58	17.0	.7					
	12 n	48	18.2	.9	.30			0	16
19. ix	9 am	16	18.2	16.4	17.43	4.98	86	0	6
	10	13	21.9	17.0					
	11	19	26.0	16.8	.25	3.57	62	0	3
	12 n	25	28.4	.6					
	1 pm	31	.4	.7	.89	4.31	75	0	3
	2	38	29.4	.6					
	3	49	.4	17.0	18.97			1	3
	4	60	.3	.3					
	5	63	28.0	.1	19.00	.14	73	0	3
	6	54	22.8	.1					
	7	45	19.4	16.8	18.68	5.72	100	0	3
	8	33	17.4	.7					
	9	21	15.7	.6	.02	.60	97	0	0

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
19. ix	10 pm	15	12.7	16.3					
	11	6	11.8	.5	17.55	5.43	94	0	0
	12 m	5	10.8	.5					
20. ix	1 am	12	.0	.5	.41	4.53	78	0	0
	2	22	9.8	.6					
	3	33	.6	.5	18.15			0	3
	4	42	.2	.5					
	5	48	7.9	.5	.62			0	8
	6	47	8.5	.5					
	7	39	11.1	.5	.65	5.26	92	0	3
	8	30	15.5	.4					
	9	22	18.3	.5					
	10.30	12	21.5	.8	17.58			0	0
17. x	9 am	12	17.4	16.6	0.34	4.43	63	0	100
	10	15	.3	.8					
	11	20	18.7	.9	.27	3.97	57	0	75
	12 n	29	.8	.9					
	1 pm	39	19.2	.9	.65	.61	52	0	83
	2	50	21.8	17.4					
	3	54	22.2	.5	1.60	.18	47	0	75
	4	58	23.1	.5					
	5	54	21.3	18.3	.80	.58	53	0	83
	6	49	20.1	.0					
	7	40	18.5	17.5	0.65	.86	56	0	91
	8	28	.7	.5					
	9	18	17.0	.0	.77	.98	58	0	91
	10	10	16.5	16.9					
	11	8	.4	.8	.62	.85	55	0	100
	12 m	9	15.8	.6					
18. x	1 am	18	.8	17.0	1.71	4.70	68	0	83
	2	27	.0	.0					
	3	36	14.4	16.8	.87	.63	67	0	79
	4	45	13.7	.9					
	5	49	.0	.9	2.37	.75	70	0	95
	6	45	12.8	15.4					
	7	36	14.1	16.4	0.83	.28	61	0	91
	8	30	15.8	.5					
	9	22	18.0	17.0	1.19	3.07	45	0	87

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
13. xi	8 am	16	19.3	20.9	6.63	4.97	82	0	55
	9	22	20.2	21.2					
	10	38	22.0	.4	9.06	.73	81	0	41
	11	49	23.2	.6					
	12 n	60	24.9	.6	11.90	.88	86	0	15
	1 pm	68	26.3	22.1					
	2	70	28.8	.2	.16	.95	88	0	23
	3	65	27.4	25.2					
	4	54	.0	24.5	10.64	5.20	91	0	11
	5	39	28.2	23.2					
	6	25	26.2	.0	9.36	.05	89	0	27
	7	14	24.4	22.9					
	8	6	22.2	.6	7.29	4.93	84	0	41
	9	6	21.5	.6					
	10	9	.2	.5	6.82	.93	84	0	38
	11	18	20.9	.5					
	12 m	36	.7	.2	9.35	5.02	87	0	35
14. xi	1 am	41	.7	.0					
	2	48	19.5	.0	10.47	4.37	77	0	14
	3	53	.5	21.6					
	4	40	.5	.6	9.12	.67	80	0	32
	5	31	.5	.6					
	6	24	.6	.7	8.38	.63	79	0	38
	7	17	.8	.7					
	8	16	21.7	.7	7.87	.68	79	0	35
11. xii	8 am	24	21.2	22.2	16.04	4.27	80	0	3
	9	33	22.0	21.7					
	10	52	23.4	.4	17.75	.60	91	0	3
	11	63	24.0	.4					
	12 n	76	25.5	.6	18.25	.78	90	0	5
	1 pm	78	.7	.6					
	2	69	26.0	22.1	.25	.80	92	0	8
	3	57	.5	23.5					
	4	44	.5	22.8	17.53	.64	89	0	3
	5	27	24.4	.9					
	6	15	23.3	23.2	16.36			0	5
	7	0	22.8	.5					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
11. xii	8 pm	6	21.6	23.4	15.34	4.63	87	0	17
	9	9	.5	22.5					
	10	21	.1	23.0	16.31	.51	85	0	13
	11	33	.5	22.6					
12. xii	12 m	45	.0	.2	17.61	.55	87	0	1
	1 am	52	.0	.2					
	2	51	20.5	.0	.83	.57	86	0	1
	3	45	.1	.0					
	4	30	19.5	.4	16.66	.47	84	0	3
	5	23	.8	.6					
	6	15	.8	.8	15.89	.53	85	0	1
	7	12	20.0	.9					
	8	16	21.0	.9	.45	.58	85	0	8
1943									
8. i	8 am	33	21.5	24.4	16.13	4.38	86	0	3
	9	51	23.5	23.7					
	10	65	26.0	.5	18.45	.48	88	0	1
	11	72	27.0	.7					
	12 m	75	28.0	.7	.64	.59	91	4	3
	1 pm	69	30.0	24.0					
	2	58	31.9	.7	.57	.67	92	5	6
	3	39	30.0	25.5					
	4	23	29.0	24.5	17.10	.59	90	0	6
	5	9	28.0	26.0					
	6	4	26.5	.7	15.00	.48	89	0	3
	7	6	24.2	25.5					
9. i	8	3	23.8	.5	14.65	.54	88	0	1
	9	6	21.6	26.0					
	10	33	.5	25.5	17.25	.37	87	0	6
	11	45	.0	.0					
	12 m	54	.0	24.6	18.37	.80	96	0	3
	1 am	53	.0	.5					
	2	39	20.8	.5	.39	.72	94	0	0
	3	28	.5	.5					
	4	18	.5	25.5	15.89	.90	96	0	3
	5	9	.5	.6					
	6	4	.5	.7	14.60	.38	85	1	1
	7	6	.8	.8					
	8	21	21.3	.6	15.61	.31	85	0	0

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
5.11	8 am	65	22.0	26.0	18.88	3.75	77	5	0
	9	79	.8	25.5					
	10	90	23.8	.3	.97	.78	77	2	3
	11	90	25.3	.2					
	12 n	79	26.5	.4	19.15	.87	79	2	0
	1 pm	66	.7	.8					
	2	48	27.8	.8	18.93	.93	81	7	0
	3	34	29.3	.9					
	4	18	30.5	28.2	.07	.82	81	5	0
	5	9	31.5	.2					
	6	9	29.7	.4	17.33	.74	79	7	17
	7	20	27.6	.3					
	8	36	26.3	27.6	18.18	.87	82	1	0
	9	51	25.8	.3					
	10	65	.0	.2	.81	2.88	81	1	0
	11	72	24.7	26.2					
	12 m	68	.7	.1	.92	4.04	83	1	0
6.11	1 am	56	.3	.4					
	2	42	23.3	.7	.64	3.91	81	1	0
	3	30	.8	.8					
	4	19	.8	.8	17.95	.83	79	4	0
	5	9	22.2	27.6					
	6	21	21.9	.5	.82	.81	79	8	12
	7	33	22.0	.3					
	8	51	23.7	26.7	18.55	.78	78	7	3
5.111	8 am	78	22.9	24.7	19.82	4.05	82	0	0
	9	84	24.4						
	10	81	26.3		.90	.11		0	0
	11	72	30.8						
	12 n	57	34.3		.82	.13		0	6
	1 pm	42	37.8						
	2	27	38.8	26.2	.66	.20	88	0	4
	3	18	30.0	.5					
	4	19	26.5	.4	.16	.30	89	7	0
	5	13	.1	.1					
	6	24	25.0	.1	.10	.26	87	4	4
	7	40	24.1	.0					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
5.iii	8 pm	53	24.1	25.9	19.68	4.30	88	0	0
	9	66	.0	.8					
	10	70	21.5	24.5	.80	3.60	73	3	0
	11	65	.0	25.6					
	12 m	52	20.8	.5	.74	4.15	86	0	0
6.iii	1 am	39	.6	24.8					
	2	25	.2	.7	.46	.19	85	0	0
	3	15	19.6	.6					
	4	12	.8	25.7	.26	.15	85	9	0
	5	21	20.2	.5					
	6	33	.2	.5	.91	.03	83	0	0
	7	48	.0	.0					
	8	54	.3	24.8	.74	.11	85	0	0
2.iv	8 am	61	17.5	22.7	19.76	3.29	65	6	4
	9	51	21.1	.7					
	10	38	22.8	.8	.71	4.86	96	2	2
	11	26	24.7	.9					
	12 n	15	.4	23.2	.55	.91	97	0	2
	1 pm	4	19.2	.2					
	2	0	18.8	.2	.23	.71	93	5	8
	3	4	.3	.1					
	4	16	17.7	.0	.15	.60	90	4	4
	5	31	.5	.0					
	6	45	16.0	22.9	.40	.86	95	5	10
	7	55	15.8	.9					
	8	58	.5	.5	.53	.70	92	2	8
	9	49	.7	.5					
	10	37	16.0	.5	.51	.75	93	5	2
	11	28	.0	.5					
	12 m	16	15.5	.5	.31	3.98	77	3	4
3.iv	1 am	9	.5	.5					
	2	5	.0	.5	.00	4.27	83	3	2
	3	11	.0	.6					
	4	23	.3	.6	.18	.49	87	2	13
	5	39	.0	.3					
	6	52	.3	.0	.41	.70	91	4	9
	7	62	.7	21.6					
	8	67	16.2	.7	.41	.70	90	4	4

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
8. v	8 am	34	11.5	16.5	19.59	4.49	77	9-0	8
	9	44	14.5	.4					
	10	54	17.8	.2	.80	5.06	89	9-2	0
	11	61	18.9	.1					
	12 n	62	19.7	.1	.93	4.56	80	4-3	3
	1 pm	61	21.4	.3					
	2	51	19.5	.4	.93	5.26	93	14-0	6
	3	42	20.9	.8					
	4	34	.1	.9	.74	.32	95	14-0	3
	5	29	17.4	.9					
	6	30	15.0	.8	.54	4.82	85	6-2	6
	7	35	13.3	.8					
	8	46	11.5	.5	.69	5.06	89	4-3	3
	9	48	12.0	.4					
	10	58	13.2	.3	.96	3.68	65	5-3	6
	11	63	.3	.2					
	9. v	12 m	66	.0	.3	.91			4-3
1 am		60	.1	.3					
2		52	.8	.1	.91			3-8	3
3		52	.7	.1					
4		41	.4	.2	.87	5.26	93	11-0	6
5		33	.1	.5					
6		25	.0	.5	.61	4.64	82	4-7	12
7		24	.1	.6					
8		28	.7	.6	.49	.94	87	7-0	19
18. vi		8 am	59	11.1	13.6	16.23	3.40	55	0
	9	66	12.1	.1	.47			0-0	3
	10	63	14.9	.5	.50	.36	54	0	3
	11	51	15.2	.7					
	12 n	39	.2	.7	.50	5.22	84	0	0
	1 pm	27	16.0	.8					
	2	18	.5	.9	14.80	3.74	60	0	0
	3	14	15.1	.5	.39			0-0	3
	4	21	13.8	.7	.39	4.39	69	0	0
	5	33	.0	.7					
	6	49	.7	15.8		5.75	92	0	3
	7	66	12.0	13.5					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
18. vi	8 pm	78	11.8	13.7	16.94	5.58	91	0	0
	9	90	.9	14.0	.80			0-1	0
	10	87	12.0	.5	17.16	4.61	76	0	0
	11	78	11.8	.0					
	12 m	66	.0	13.6	.13			0	3
19. vi	1 am	49	10.0	.4				0	3
	2	33	9.0	.4	15.78			0	3
	3	21	8.5	.2					
	4	12	7.1	.2	14.55	.94	77	0-2	11
	5	12	6.0	.0					
	6	27	5.0	.0	.50	5.40	86	0	9
	7	37	4.5	.0					
	8	54	7.1	12.9	16.35			0	3
16. vii	8 am	64	9.3	12.0	18.24	5.85	94	0-0	6
	9	59	11.3	.0					
	10	46	13.4	.1	17.90	.93	95		
	11	34	14.5	.1					
	12 n	23	.1	.0	.50	.93	94	0-4	6
	1 pm	15	.5	.1					
	2	11	.0	.0	16.68	6.10	96		
	3	21	.8	.0					
	4	32	.6	.0	17.15	.01	95	0-3	3
	5	48	13.3	.4					
	6	64	11.0	.1	18.05	5.94	95		
	7	77	9.8	.5					
	8	85	.7	.5	.27	6.02	99	0-1	3
	9	82	10.0	.5					
17. vii	10	72	9.5	13.0	.60	5.82	95		
	11	59	7.7	12.0					
	12 m	45	.7	.0	.18	.95	95	0-0	0
	1 am	32	.0	11.8					
	2	17	.7	.7	17.20	6.02	95		
	3	9	.4	.5					
	4	10	.2	.4	16.48	.09	94	0-0	3
	5	23	6.3	.5					
	6	36	4.6	.5	17.41	.01	94		
	7	50	5.3	.5					
	8	62	9.0	.6	18.18	5.88	93	0-0	3

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
10. ix	8 am	28	14.8	16.0	12.95	5.67	92	1-6	4
	9	18	17.0	.0					
	10	12	18.0	17.5	15.97	3.97	68		
	11	9	20.0	18.4					
	12 n	12	.0	17.4	12.02	5.76	95	0-7	7
	1 pm	20	21.0	18.2					
	2	31	23.0	17.0	13.30	.61	93		
	3	42	.2	.2					
	4	54	21.0	.6	15.22	6.25	107		
	5	63	19.8	.4					
	6	66	17.5	.5	.50	.14	105		
	7	59	16.5	.4					
	8	48	15.9	.0	14.22	.12	102	1-2	0
	9	37	.9	18.0					
	10	20	14.8	16.9	13.64	.02	100		
	11	12	.6	17.7					
	12 n	3	15.0	16.6	.01	5.81	95	0-5	0
11. ix	1 am	0	14.0	17.1					
	2	6	13.0	16.8	12.36	.52	90		
	3	19	12.5	.6					
	4	31	.0	17.7	14.13	.79	98	1-5	0
	5	41	11.8	18.3					
	6	53	10.5	17.0	15.22	.89	100		
	7	48	13.5	16.8					
	8	42	14.0	.3	14.09	.91	97	1-4	4
5. xi	7 am	20	17.0	21.0	14.28	4.18	75	0-0	9
	8	14	19.5	.3					
	9	12	21.0	.4		.49			
	10	16	.5	.7					
	11	21	22.3	.6	15.07	.55	83	0-0	7
	12 n	33	23.8	.5					
	1 pm	44	22.5	.4		.59			
	2	51	21.9	.4					
	3	57	22.0	.2	17.20	.78	89	0-0	9
	4	57	21.2	.5					
	5	51	20.7	.5		5.21			
	6	40	19.7	.7					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
5. xi	7 pm	28	18.5	21.9	15.19	5.10	94	0-0	7
	8	19	17.9	.8					
	9	9	.4	.8		4.99			
	10	1	.4	.5					
	11	1	.3	.7	13.91	.93	89	0-0	9
	12 m	6	16.5	.3					
6. xi	1 am	18	15.5	.4		.91			
	2	25	14.2	.5					
	3	33	13.2	.4	16.92			0-0	7
	4	42	14.3	20.7					
	5	44	15.7	.9		.59			
	6	39	.7	.6					
	7	30	16.6	.7	15.24	.82	87	0-0	9
1944									
13. i	8 am	30	23.0	25.7	12.01	3.66	69	0-7	4
	9	45	21.9	.7					
	10	57	22.5	.5		.80			
	11	65	23.0	.0					
	12 n	69	.5	.0	15.56	4.04	78	1-6	0
	1 pm	63	.3	.0					
	2	51	.8	.9		.01			
	3	39	25.9	26.3					
	4	21	26.3	.7	11.61	.01	77	0-7	6
	5	14	.2	27.1					
	6	7	25.3	26.9		.04			
	7	3	24.3	27.0					
	8	11	22.7	26.3	7.98	3.92	72	0-0	17
	9	21	21.7	.3					
	10	35	20.5	.3		4.04			
	11	43	21.7	.0					
	12 m	50	.7	25.2	13.59	.10	78	3-4	6
14. i	1 am	48	.7	24.4					
	2	42	18.8	25.5		.33			
	3	30	.7	.8					
	4	21	19.5	.9	8.63	3.77	69	0-3	17
	5	12	17.0	.4		.66			
	6	9	18.5	.0					
	7	12	.8	24.8					
	8	19	19.9	.9	5.39	.49	61	0-0	12

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
14. i	9 am	32	22.0	25.9					
	10	45	23.4	26.0		3.72			
	11	56	25.1	25.8					
	12 n	63	27.2	26.3	15.36			0-9	2
	1 pm	63	.5	27.3					
	2	56	.9	29.4		4.71			
	3	42	28.0	.0					
	4	30	27.9	28.1	8.60	.33	82	0-5	8
	5	19	29.0	27.8					
	6	10	28.7	.7		3.95			
	7	3	27.4	.1					
	8	4	25.9	26.8					
5. v	11 am	23	16.8	14.0	18.77	5.38	90	0-5	15
	12 n	12	18.4	.5					
	1 pm	3	.8	15.2					
	2	0	.0	.0	17.95	4.76	80	0-5	12
	3	12	.6	14.8					
	4	24	17.8	.8					
	5	39	14.5	.0	18.69	5.39	90	0-5	9
	6	51	13.8	13.9					
	7	57	.3	.6					
	8	57	12.8	.5	19.02	.70	95	0-5	12
	9	54	.0	.5					
	10	45	11.7	.3					
	11	32	.1	.6	.01	.65	94	0-15	9
	12 n	24	10.9	.7					
6. v	1 am	18	.5	.8					
	2	12	.1	14.0	18.37	.56	92	0-8	9
	3	4	.2	.0					
	4	24	.0	.0					
	5	36	.0	.0	19.15	.08			
	6	48	.0	.0					
	7	54	11.0	12.8					
	8	60	.6	.8	.30	4.91	81	0-11	15
	9	54	13.8	.8					
	10	42	16.5	13.0					
	11	31	17.0	.0	18.83	.56	75	0-8	12

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
6.vii	8 pm	42	24.8	24.5	17.53				7
	9	45	.3	23.8					
	10	38	22.6	24.5		4.06			9
	11	30	.3	.4					
	12 m	21	20.5	.4	16.40	3.62	70		12
7.vii	1 am	12	21.1	.5					
	2	6	20.5	.3					20
	3	11	19.6	.1					
	4	18	18.4	.3	.16	4.22	81		20
	5	30	15.2	.4					
	6	41	16.6	.5		.50			35
	7	51	18.0	23.5					
	8	55	.9	.5	18.03	.20	82		20
	9	60	21.8	25.5					
	10	52	23.0	23.5		.20			12
	11	42	24.0	24.1					
	12 n	30	25.8	.5	16.99	.61	90		12
	1 pm	19	.5	.7					
	2	11	26.4	25.0		.43			15
	3	1	25.5	.1					
	4	3	30.5	.1	.03	.50	88		7
	5	12	.3	.0					
	6	24	28.0	24.8		.50			17
	7	36	24.0	.8					
	8	42	23.0	.6	17.43	.14	82		12
12.vii	7.30 pm	16	14.0	13.4	18.06	5.82	56	0-1	4
	8.30	12	13.7	.3					
	9.30	13	12.7	.3		.85			2
	10.30	24	.9	.4					
	11.30	34	13.5	.5	.33	.88	97	0-0	2
13.vii	12.30 am	45	.4	.6					
	1.30	51	12.0	.7		.85			2
	2.30	56	11.0	.9					
	3.30	53	.0	.9	.65	.59	92	0-0	2
	4.30	44	.2	.8					
	5.30	32	10.5	.7		.60			2
	6.30	21	.7	.5					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
13. vii	7.30 am	14	10.0	13.2	18.01	5.63	92	0-0	2
	8.30	7	.4	.2					
	9.30	22	9.9	.2		.21			6
	10.30	9	10.0	.2					
	11.30	18	.8	.3	17.72	.55	90	0-1	2
	12.30 pm	32	12.7	.4					
	1.30	44	14.5	.4		3.81			2
	2.30	54	.2	.6					
	3.30	59	13.8	.4	18.27	5.47	90	0-2	2
	4.30	56	12.5	.4					
	5.30	46	.7	.4		.96			2
	6.30	39	.7	.3					
	7.30	30	.0	.2	.01	.88	96	0-0	6
1945									
21. iii	6 pm	29	23.7	25.1	18.72	4.72	95	0-0	9
	7	23	21.2	24.1					
	8	17	.0	.8	.42	.56	91		
	9	14	20.8	.7					
	10	15	.0	.7	.17	.56	91	0-4	5
	11	20	18.6	25.6					
	12 m	28	17.7	24.6	.42	.55	91		
22. iii	1 am	37	.6	23.8					
	2	46	15.7	24.5	19.31	5.00	101	2-2	5
	3	54	16.4	.4					
	4	57	.5	.5	.45	4.67	94		
	5	54	.9	.0					
	6	45	15.6	.1	.10	.52	90	4-0	3
	7	36	19.0	.8					
	8	27	.0	.0	18.82	.28	85		
	9	19	20.2	.0					
	10	13	22.0	.8	.41	.33	87	2-0	3
	11	8	23.2	25.0					
	12 n	10	.7	24.9	.38	.45	89		
	1 pm	18	24.5	25.1					
	2	26	25.6	24.8	.64	.45	89	3-2	3

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
22.111	3 pm	34	27.5	25.4					
	4	40	.8	.0	19.11	4.58	93		
	5	44	25.3	.0					
	6	42	23.7	24.7	18.94	.50	90	2-3	3
9.v	5 pm	43	16.2	17.1	18.98	5.81	103	0-9	26
	6	56	12.3	.0					
	7	65	10.8	.0	19.29	4.21	75		
	8	66	9.6	.0					
	9	59	.6	16.9	.27	5.55	98	0-7	4
	10	47	11.7	.7					
	11	33	.9	.7	.03	.50	97		
	12 m	21	12.3	.9					
10.v	1 am	12	.0	17.0	18.80	.31	94	0-6	4
	2	6	11.6	16.8					
	3	12	.1	17.1	.51				
	4	23	.1	.0					
	5	39	.3	16.7	.88	.49	96	0-4	4
	6	51	.7	.3					
	7	62	12.1	.3	19.37	.39	94		
	8	65	13.6	.3					
	9	49	15.6	.3	.36	.37	94	1-6	4
	10	45	18.5	.2					
	11	33	.9	.3	.27	.50	96		
	12 n	20	20.6	.7					
	1 pm	8	.5	17.1	18.87	.49	97	0-6	4
	2	1	22.2	.3					
	3	3	.1	.4	.56	.36	95		
	4	27	21.1	.1					
	5	29	19.4	.0	.93	.56	97	0-8	4

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
5. ix	6 pm	52	9.5	14.5	18.22	5.85	98	1-3	7
	7	58	.8	.3					
	8	64	10.1	.3	.71	.59	95		
	9	70	8.8	.2					
	10	61	.6	.0	.76	.48	92	5-10	0
6. ix	11	50	.4	13.7					
	12 m	34	7.4	.7	.34	.24	87		
	1 am	19	5.3	.4					
	2	10	7.2	.5	17.42	.49	90	1-7	0
	3	2	6.9	14.2					
	4	0	4.9	.0	16.72	.46	89		
	5	8	.0	.1					
	6	21	3.5	.4	17.54	.49	91	1-3	7
	7	31	5.2	.0					
	8	46	8.8	.3	18.39	.43	91		
	9	53	12.3	.3					
	10	51	14.0	.1	.56	.09	85	1-6	6
	11	39	18.8	.6					
	12 n	39	20.3	15.4	17.94				
	1 pm	19	19.2	.0					
8. xi	2	10	21.3	.0	.23	.23	88	0-5	8
	3	6	22.1	.2					
	4	10	20.3	16.3	16.95	.19	89		
	5	20	16.0	15.0					
	6	32	13.0	14.5	17.79	.66	84	0-3	8
	12 n	48	28.5	22.0	19.71	4.62	90	2-7	15
	1 pm	36	25.2	.5	.70	.73	92		
	2	21	23.5	23.5	.63	.83	96	2-7	11
	3	15	.8	24.2					
	4	6	.2	.2	.45	.71	95		
	5	0	22.2	.0					
	6	3	20.5	23.8	.15	.19	84	2-7	18
	7	12	19.5	.5					
	8	24	.0	.0	.52	.55	90		
	9	37	18.5	22.3					
	10	42	19.0	.6	.72	.64	91	4-7	15
	11	42	.1	.6					

Location: PORT STEPHENS - KARUAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
8. xi	12 m	36	19.0	22.7	19.70	4.50	89		
9. xi	1 am	24	.2	.9					
	2	15	.0	23.0	.51	.37	84	2-10	15
	3	6	.0	.0					
	4	3	.0	.0	.31	.42	87		
	5	3	18.7	.2					
	6	11	26.5	.2	.33	.55	89	2-8	11
	7	22	25.4	.2					
	8	34	26.8	.0	.61	.52	89		
	9	46	29.8	.2					
	10	56	26.5	22.7	.74	.37	86	4-15	11
	11	58	.7	.5					
	12 n	56	27.3	23.8	.74	.65	93	2-15	11

Location: PORT STEPHENS NO. 3 - PINDIMAR WHARF

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1942									
25. viii	4 pm	32	15.8	16.8	18.81	6.20	109	3	16
	6	61	14.0	.2	.60	.01	104	3	12
	8	81	11.0	.3	.43			0	20
	10	69	10.0	15.8	.87	5.01	87	0	16
	12 m	41	8.5	.7	.74	.20	90	2	20
26. viii	2 am	15	9.5	14.5	.77	3.74	63	1	8
	4	9	8.0	15.0	.82	.17	54	4	20
	6	38	.3	.3	.77	5.34	91	1	16
	8	59	11.2	16.0	.61	.43	94	5	8
	10	60	14.6	15.8	.65	.54	96	3	16
	12 n	37	18.0	.1	.72	6.03	103	0	8
	2 pm	16	.5	16.4	.78	.03	105	1	12
	4	21	19.5	.8	.74	5.88	103	0	12
	6	48	14.5	.9	.61	.75	101	1	12
	8	75	11.8	.0	.36	.34	92	0	12
	10	78	10.7	.1	.38	.46	94	0	0
	12 m	52	8.5	.0	.90	4.86	83	1	0
27. viii	2 am	25	7.0	15.4	.90	5.92	102	0	0
	4	9	6.0	14.4	.78	.25	88	3	23
	5	29	7.4	15.2	.70	4.69	80	3	8
	8	53	11.8	.6	.70	.96	85	0	2
	10	66	17.5	.7	.81	5.62	97	3	0
	12 n	48	18.3	16.9	.99	6.25	110	1	12

Location: PORT STEPHENS NO. 8 - TEA GARDENS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
26. viii	12 n	31	17.4	16.2	14.75	5.88	98	1	11
	1 pm	24	16.8	.2					
	2	15	15.9	.2	10.69	6.45	102	1	23
	3	12	16.0	.4					
	4	11	15.8	.4	8.00	5.80	105	3	23
	5	20	.4	.4					
	6	33	14.3	.3	10.29	6.80	106	7	23
	7	45	13.8	.6					
	8	55	.1	.3	18.47			1	11
	9	63	12.9	.7					
	10	64	.6	.9	19.25	5.34	95	2	11
	11	58	.3	.9					
27. viii	12 m	44	11.2	15.9	16.41	.45	92	0	23
	1 am	35	10.2	.8					
	2	24	.7	.9	14.93			3	8
	3	16	8.5	.9					
	4	7	9.6	.3	11.91	.63	89	1	23
	5	9	.0	.1					
	6	19	.3	.1	10.52	.56	86	0	8
	7	30	10.1	.2					
	8	41	12.3	14.5	14.59	3.70	61	3	11
	9	47	14.3	15.3					
	10	50	16.8	.3	19.04	5.25	89	3	20
	11	47	17.3	16.6					
28. viii	12 n	39	.0	.6	17.05	.17	89	2	4
	6 pm	26	14.9	.3	10.28			0	16
	12 m	50	11.5	.4	19.15			5	8
	7 am	18	10.0	15.0	11.26	.53	86	5	11
	12 n	43	18.8	17.2	18.90	.49	97	3	20
	6 pm	15	17.8	15.9	9.27			0	11

Location: PORT STEPHENS NO. 9a - TILLIGERRY CREEK

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1942									
25. viii	1. 30 pm	13	15.6	16.9	17.65	6.17	107	3	8
	3. 30	16	.4	.3	.23	5.85	100	0	4
	5. 30	42	13.9	.2	18.13	6.25	108	2	0
	7. 30	73	12.0	.2	.45	.21	107	0	16
	9. 30	78	11.8	15.9	.31	5.80	100	4	4
	11. 30	48	10.6	.8	.04	.63	96	1	8
26. viii	1. 30 am	20	9.4	.5	17.56	.60	95	0	0
	3. 30	9	8.6	14.6	.17	4.36	72	1	23
	5. 30	18	7.6	.5	.40	.26	71	3	0
	7. 30	49	11.8	15.0	18.18			0	23
	9. 30	62	16.3	.4	.26	5.54	94	0	0
	11. 30	43	17.0	.9	.06	.68	97	0	16
	12. 30 pm	28	.8	16.1					
	1. 30	19	18.8	.6	17.49	.83	101	0	0
	2. 30	9	17.8	17.9					
	3. 30	8	16.9	16.9	.28	.80	100	0	8
	4. 30	18	.0	.5					
	5. 30	32	15.1	.5	.64	6.39	110	0	11
	6. 30	46	14.3	.3					
	7. 30	50	.9	.0	18.09	8.75	150	0	8
27. viii	8. 30	74	13.5	15.9					
	9. 30	84	.2	16.0	.13	5.63	97	0	0
	10. 30	74	.2	.0					
	11. 30	60	.1	15.9	.21	.58	96	0	11
	12. 30 am	44	12.5	.7					
	1. 30	32	.0	.3	17.87	.44	92	0	16
	2. 30	17	.0	.4					
	3. 30	6	10.5	12.5	.39	4.61	74	0	8
	4. 30	3	.0	14.4					
	5. 30	14	.0	.4	.57			0	16
	6. 30	28	.0	15.0					
	7. 30	42	12.0	14.2	.94	3.94	66	0	4
	8. 30	56	13.0	15.0					
	9. 30	64	14.3	14.2	18.11	5.51	92	0	11
	10. 30	64	16.5	15.7					
	11. 30	56	18.3	.7	.10	.57	95	0	16

Location: PORT STEPHENS NO. 23 - PIPECLAY CREEK

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
25.viii	12 n	24	15.6	15.5	16.61			0	28
	2 pm	27	.8	.7	.06			0	20
	3	10	.6	.6				0	28
	4	20	.3	16.0	.27			0	28
	5	32	14.2	.5				0	28
	6	48	11.2	.1	17.00			0	28
	7	67	10.5	15.9				0	8
	8	74	9.5	.8	.37			0	8
	9	77	.3	.8				0	16
	10	71		.4	.17			0	16
	11	56	8.2	.5				0	16
	12 m	42	7.9	.0	.11			0	16
26.viii	1 am	30	.5	14.9				0	23
	2	15	.5	.5	16.38			0	23
	3	6	.1	.5				0	23
	4	0	.6	.5	15.99			0	23
	5	6	5.7	.7				0	23
	6	21	6.0	.0	16.31			0	23
	7	40	7.9	13.7				0	36
	8	53	10.8	.7	.89			0	36
	9	61	12.8	14.4				0	23
	10	60	18.0	15.2	17.33			0	23
	11	47	.3	.2				0	16
	12 n	37	17.9	14.8	16.95			0	16
	1 pm	24	18.3	.7				0	20
	2	15	17.0	.9	.43			0	20
	3	8	.0	15.2				0	23
	4	8	16.0	.2	.26			0	23
	5	20	15.5	.2				0	4
	6	38	14.7	.5	.76			0	23
	7	52	.3	16.0				0	23
	8	68	.2	15.9	.42			0	23
	9	76	13.8	.7				0	23
	10	77	.5	.6				0	20
	11	68	12.8	.4				0	20
	12 m	52	11.3	.4	17.35			0	20
27.viii	1 am	41	.4	.1				0	23
	2	26	9.1	14.5	16.77			0	23

Location: PORT STEPHENS NO. 23 - PIPECLAY CREEK

Date	Time	Tide (h.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1942									
27. viii	3 am	14	8.5	14.3					
	4	4	.0	.2	16.29			0	20
	5	0	.2	.2					
	6	12	7.0	.0	.34			0	23
	7	27	10.5	.2					
	8	45	14.8	.2	.84			0	16
	9	57	13.4	.3					
	10	63	15.2	.2	17.43			0	23
	11	60	19.0	.2					
	12 n	51	.7	15.3					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
16. iv	12 n	17		21.5	10.07	4.91	85	0	150
	1 pm	16		.5					
	2	21		.6	9.93	.95	86		150
	3	28		.5					
	4	39		.5	.96	.91	85	1	140
	5	45		.4					
	6	50		.2	10.80	.77	83		125
	7	50		.2					
	8	46		.1	11.84	.67	82	0	115
	9	40		.0					
	10	32		.1	.34	.95	86		102
	11	26		.0					
	12 m	22		20.9	10.74	.77	82	0	115
17. iv	1 am	23		21.0					
	3	35		.1	9.94	.32	74		125
	4	46		.0	11.46	.54	79	0	94
	5	54		20.9					
	6	60		.8	12.02	.67	82		102
	7	63		21.0					
	8	57		.0	.78	.06	72	0	102
	9	46		.7					
	10	39		.8	.24	.77	85		102
	11	27		.0					
	12 n	20		20.9	11.58	.85	85	0	163
			Sky						
28. v	7 am	36	1	17.4	15.21	4.90	83	0	65
	8	26	1	.5					
	9	17	2	.5	14.97	.78	81		68
	10	12	5	.5					
	11	14	5	.8	.27	5.10	87	0	70
	12 n	21	5	.9					
	1 pm	30	4	18.0	.12	.08	86		77
	2	39	6	17.9					
	3	48	3	.8	15.47	4.92	85	0	60
	4	55	1	.8					
	5	55		.7	.64	.88	84		
	6	52		.6					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947			Sky						
28.v	7 pm	43		17.5	15.31	4.67	80	1	68
	8	36		.4					
	9	27		.4	17.16	5.00	87		77
	10	21		.5					
	11	24		.5	13.91	4.92	83	1	76
	12 m	28		.4					
29.v	1 am	36		.5	.71	.72	79		68
	2	48		.5					
	3	54		.5	15.51	.90	84	1	65
	4	60		.5					
	5	63		.5	.82	.67	81		60
	6	57		.5					
	7	48		.0	.24	.84	82	0	58
19.vi	7 am	42		13.5	14.46	5.64	92	0	60
	8	50		.6					
	9	60		.6	15.24	.64	89		20
	10	57		.6					
	11	48	1	.9	.83	.63	91	1	42
	12 n	36	1	14.0					
	1 pm	24	9	.0	.59	.64	91		36
	2	18	8	13.9					
	3	12	7	.9	14.74	.67	90	1	42
	4	21	1	.7					
	5	33		.5	.51	.69	90		42
	6	48		.6					
	7	63	.	.5	15.00	.69	90	1	42
	8	75	.	.6					
	9	84	.	.6	16.17	.60	90		
	10	85	.	.9					
	11	72		14.1	17.15	.47	90	1	33
20.vi	12 m	60		.2					
	1 am	46		13.7	16.49	.53	89		36
	2	31		.7					
	3	21		.5	15.68	.49	88	0	45
	4	9		.4					
	5	9		.4	.04	.58	89		40
	6	19		.4					
	7	33		.3	14.06	.74	90	1	33

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
15. vii	3 pm	37	0	13.1	14.73	6.02	94	0	17
	4	51	0	.0					
	5	57	0	.0	.92	.00	94		
	6	63	0	.0					
	7	66	0	12.7	16.02	.06	96	0	12
	8	63	0	.6					
	9	51	0	.5	.30	5.89	93		
	10	39	0	.3					
	11	24	0	.2	15.73	.76	105	0	8
	12 m		0	.5					
16. vii	1 am		0	.5	.51	.94	93		
	2		0	.5					
	3		0	.5	14.94	.97	93	0	0
	4		0	.5					
	5		0	.5	16.07	.84	92		
	6		0	.5					
	7	51	1	.5	.21	.90	93	0	8
	8	51	1	.5					
	9	42	3	.2	.14	.92	93		
	10	27	1	.5					
	11	18	2	.6	.17	.85	92	0	5
	12 n	15	1	.6					
	1 pm	9	7	.7	15.31	.80	91		
	2	15	7	.7					
	3	24	9	.6	14.97	6.07	95	0	23
12. viii	3 pm	51	0	13.7	15.69	6.05	97	4	0
	4	57	0	.7					
	5	60	0	.6	16.68	5.83	94		
	6	63	0	.5					
	7	54	0	.7	.98	.86	95	5	0
	8	43	0	.4					
	9	31	0	.3	.57	.78	93		
	10	21	0	.1					
	11	14	2	.3	15.99	.98	97	6	0
	12 m	10	0	.2					
13. viii	1 am	12	0	.2	.38	6.12	97		
	2	21	0	.0					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947			Sky						
13.viii	3 am	30		13.1	15.38	5.96	94	6	3
	4	39	0	.1					
	5	45	0	.2	16.01	.80	93		
	6	48	0	.3					
	7	45	0	.3	.02	.81	93	6	0
	8	37	0	.0					
	9	27	0	.0	.35	.83	93		
	10	21	0	.0					
	11	16	1	14.0	15.53	.96	96	6	5
	12 n	15	1	13.4					
	1 pm	21	1	.4	.27	6.14	97		
	2	30	1	.5					
	3	42	1	.6	.46	.20	99	4	0
15.ix	3 pm	24		16.4	16.30	5.68	96	5	0
	4	9		.5					
	5	15		.5	15.86	.78	98	6	
	6	33		.4					
	7	46		.4	16.78	.55	95	4	7
	8	62		.5					
	9	69		.5	17.09	.53	95	3	
	10	73		.5					
	11	65		.6	.56	.40	93	5	0
	12 m	50		.6					
16.ix	1 am	33		.6	.22	.46	97	6	
	2	18		.5					
	3	8		.5	16.82	.36	92	6	21
	4	2		.4					
	5	8		.2	.19	.49	93	4	
	6	18		.2					
	7	36		.3	.45	.49	93	3	0
	8	51		.4					
	9	60		.5	.98	.48	94	3	
	10	66		.5					
	11	62		.5	17.48	4.78	82	6	5
	12 n	51		.5					
	1 pm	36		.6	.30	5.44	92	7	
	2	21		.7					
	3	12		.8	.02	.56	96	8	0

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947			Sky						
22. x	1 pm	53	4	20.6	15.91	5.44	99	0	0
	2	56	4	.7					
	3	57	3	21.0	16.53	.51	102		
	4	54	3	22.1					
	5	48	3	.0	.43	.45	102	7	0
	6	40	3	21.7					
	7	33	2	.0	.42	.34	98		
	8	26		20.5					
	9	22	1	.5	15.73	.49	100	0	0
	10	20	2	.4					
	11	24	3	.2	.48	.44	98		
	12 m	28	2	.2					
23. x	1 am	36	1	.0	.32	.34	95	4	0
	2	39		.0					
	3	43		19.5	.43	.35	95		
	4	45		20.0					
	5	43	2	.0	16.08	.05	91	0	0
	6	40	1	.5					
	7	34	4	19.5	.04	.30	95		
	8	30	6	.8					
	9	30	8	20.0	15.57	4.82	86	5	0
	10	31	8	.2					
	11	35	7	.5	.19	5.44	98		
	12 n	40	9	.7					
13. xi	1 pm	48	8	21.0	.35	.58	101	0	0
	12 n	40	8	20.6	17.32	5.05	93	6	0
	1 pm	27	10	.4					
	2	15	10	.6	.44	4.95	91	4	0
	3	7	10	.7					
	4	6	10	.9	16.96	.85	90	3	0
	5	12	10	21.0					
	6	27	10	20.9	.66	.95	91	7	0
	7	37	10	.9					
	8	48	10	.5	17.22	.88	90	3	0
	9	54	10	.6					
	10	54	10	.5	.56	.83	88	6	0
	11	43	9	.1					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
13. xi	12 m	33	6	19.6	17.22	4.83	88	3	0
14. xi	1 am	24	1	.3					
	2	15	6	.9	.40	.84	88	5	0
	3	12	10	20.5					
	4	13	7	.5	16.56	.78	87	4	8
	5	21	5	.5					
	6	34	7	.5	.67	.90	90	5	0
	7	48	8	.3					
	8	59	8	.3	17.58	.75	88	4	12
	9	66	6	.2					
	10	69	9	.1	.82	.75	87	4	7
	11	63	9	.2					
	12 n	51	6	.5	.77	5.00	93	4	4
1948									
24. i	2 pm	3	6	21.5	8.32	4.15	70	15	247
	3	9	7	22.5					
	4	18	8	.6	7.55	.38	75		
	5	29	9	.6					
	6	40	8	.6	9.27	.31	75	6	105
	7	46	9	.5					
	8	48	10	.5	10.56	.25	75		
	9	43	10	.5					
	10	33	10	.4	.87	.22	75	6	64
	11	21	10	.2					
	12 m	13	10	.3	8.63	.46	78		
25. i	1 am	9	8	.2					
	2	10	9	.1	7.81	.18	71	6	223
	3	19	9	.0					
	4	31	10	21.0	.02	.24	70		
	5	46	10	22.0					
	6	60	10	.2	9.92	.45	78	10	225
	7	69	10	.3					
	8	72	8	.4	11.59	.55	81		
	9	69	7	.5					
	10	54	5	.7	12.25	.60	83	9	123
	11	40	3	.9					
	12 n	27	8	.9	11.04	.51	81		
	1 pm	16	9	.7					
	2	6	9	.6	8.53	.24	73	9	302

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
17.11	7 am	18	9	25.6	7.37	4.18	75		
	8	15	10	.7					
	9	18	10	.8	6.60	.34	78	9	252
	10	23	10	26.0					
	11	31	10	.0	5.92	.50	80		
	12 n	39	10	.1					
	1 pm	45	10	.0	7.43	.57	83	4	206
	2	48	9	.0					
	3	43	7	.0	8.03	.53	83		
	4	39	8	.1					
	5	31	10	.1	7.67	.96	90	10	165
	6	23	10	.0					
18.11	7	18	8	.0	6.22	.80	86		
	8	14	10	.0					
	9	15	10	25.9	5.92	.50	80	9	248
	10	21	10	26.0					
	11	30	10	25.7	.51	.45	78		
	12 m	39	6	.9					
	1 am	48	7	.8	7.13	.38	79	5	180
	2	55	4	.8					
	3	56	8	.9	8.43	.41	81		
	4	52	3	.6					
	5	46	9	.6	.05	.45	81	3	140
	6	37	10	.7					
23.11	7	28	10	.7	7.36	.34	78		
	12 n	18	2	22.0	14.27	4.82	86	6	122
	1 pm	5	2	.0					
	2	0	6	.0	13.28	5.00	90		
	3	3	3	.2					
	4	15	2	.1	12.19	4.83	86	9	178
	5	30	5	.2					
	6	42	7	.0	13.33	.92	89		
	7	54	9	21.9					
	8	61	4	.9	14.95	.45	82	4	82
	9	59	9	.8					
	10	48	7	.7	.26	.42	80		
	11	34	9	.6					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
23.iii	12 m	20	10	21.6	14.41	4.54	83	4	65
24.iii	1 am	10	10	.8					
	2	4	9	.9	13.02	.77	86		
	3	13	9	22.0					
	4	24	6	21.8	12.76	.80	86	7	192
	5	36		.9					
	6	53	1	.9	13.99	.64	84		
	7	64	1	.8					
	8	73	1	.7	15.13	.70	86	9	138
	9	73	7	.7					
	10	64	9	.8	.46	.62	85		
	11	51	9	.7					
	12 n	32	6	.9	14.83	.65	85	4	32
20.iv	12 n	9	10	19.0	14.56	4.83	84	7	78
	1 pm	5	10	.1					
	2	12	10	.2	13.59	.98	86		
	3	24	10	.2					
	4	37	10	.2	.70	.90	85	7	108
	5	48	10	.0					
	6	57	10	18.9	15.58	.74	83		
	7	62	10	.9					
	8	58	10	.8	.62	.86	85	3	48
	9	48	10	.6					
	10	36	10	.4	.21	.40	76		
	11	19	9	.1					
	12 m	13	0	.7	13.82	.88	84	6	33
21.iv	1 am	12	4	.8					
	2	18	2	.8	14.07	.81	83		
	3	29	1	.9					
	4	42	3	.7	15.58	.89	86	6	53
	5	57	1	.7					
	6	66	3	.6	.77	.87	85		
	7	72	1	.6					
	8	70	6	.5	16.14	.67	82	5	246
	9	60	5	.5					
	10	44	3	.4	15.65				
	11	29	1	.5					
	12 n	18	1	.4	.49	5.25	91	4	400

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
19.v	10 am	27	1	15.8	10.47	5.03	79	4	149
	11	18	2	.9					
	12 n	12	1	.9	9.03	4.94	77		
	1 pm	15	5	16.2					
	2	24	6	.4	8.00	.99	77	4	158
	3	38	8	.2					
	4	49	9	.0	9.98	.98	78		
	5	61	3	15.2					
	6	67	1	.8	11.90	5.00	80	4	
	7	66	3	16.1					
	8	62	0	.0	12.39	4.94	80		
20.v	9	48	0	15.6					
	10	37	0	.5	11.47	.94	78	3	254
	11	27	0	.6					
	12 m	18	0	.6		5.00			
	1 am	18	0	.6					
	2	25	0	.5	8.42	.12	78		
	3	34	0	.4					
	4	47		.5	.84	.01	77	7	157
	5	57		.8					
	6	66	1	.6	10.97	.02	79		
	7	66	1	16.0					
11.vi	8	63	1	.0	12.51	4.96	80	4	64
	9	51	1	15.3					
	10	39	1	14.5	.04	.99	77	4	81
	1 pm	34	7	14.9	11.56	4.96	78	4	187
	2	33	8	.5					
	3	27	7	.9	12.12	5.45	86		
	4	15	5	.9					
	5	4	2	.5	8.72	.85	88	5	300
	6	0	10	.5					
	7	0	9	.4	7.94	.68	85		
	8	4	9	.4					
	9	14	10	.2	.06	4.75	70	4	346
	10	27	10	.0					
	11	39	10	.5	9.05	5.56	84		
	12 m	46	7	.5					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
12. vi	1 am	50	5	14.6	11.24	5.54	86	9	228
	2	48	1	.7					
	3	38	1	.8	12.51	.43	86		
	4	26	3	.4					
	5	11	3	.3	10.10	.53	84	4	224
	6	4	3	.3					
	7	7	2	.4	8.80	.58	84		
	8	12	6	.2					
	9	9	9	.1	7.23	.63	83	4	342
	10	1	9	.1					
	11	13	8	.6	6.20	6.00	88	5	314
	12 n	24	6	.4					
	1 pm	30	9	.7	9.33	5.58	85		
27. vii	2 pm	48	0	13.4	13.38	6.37	99	5	65
	3	42	0	.5					
	4	36	0	.4	12.04	.45	99		
	5	25	1	12.4					
	6	21	0	.2	10.33	.45	94	3	96
	7	16	0	.2					
	8	21	0	.0	9.80	.45	93		
	9	27	0	.0					
	10	36	0	11.8	.72	.54	94	4	112
	11	45	0	.8					
	12 m	51	0	12.1	11.22	.11	90		
28. vii	1 am	54	0	.2					
	2	51	0	.6	12.34	.17	93	8	60
	3	42	0	11.7					
	4	33	0	.4	11.42	.15	88		
	5	22	0	.7					
	6	18	0	.5	10.25	.26	90	5	113
	7	13	1	.6					
	8	12	0	.7	9.83	.50	94		
	9	18	0	.7					
	10	26	0	.9	.55	.55	95	5	116
	11	36	0	.9					
	12 n	45	0	12.3	10.70	.43	95		
	1 pm	49	0	.5					
	2	52	0	.8	12.65	.41	98	5	44

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
17. viii	1 pm	22	1	14.5	12.63	6.70	105	2	79
	2	24	1	.4					
	3	30	2	.5	.43	.68	105		
	4	40	3	.5					
	5	48	5	.3	13.13	.52	103	2	35
	6	64	5	.3					
	7	67	4	.2	14.63	2.57	41		
	8	69	7	.2					
	9	66	6	.2	.39	6.27	100	1	0
	10	55	1	.2					
	11	42	1	.2	.73	3.65	58		
	12 m	32	1	.0					
18. viii	1 am	21	0	.0	.12	6.35	101	2	16
	2	15	0	.0					
	3	13	2	13.9	13.08	.36	100		
	4	21	1	.8					
	5	33	9	.7	12.75	.38	99	2	66
	6	40	10	.7					
	7	48	5	.7	13.40	.23	97		
	8	51	9	.8					
	9	50	0	14.0	14.41	.44	102	2	10
	10	42	1	.1					
	11	32	4	.3	.22	.75	108		
	12 n	25	7	.6					
	1 pm	18	4	.2	13.03	.65	104	2	33
28. ix	1 pm	37	1	17.8	11.98	6.25	104	1	34
	2	48	0	.5					
	3	57	0	.4	13.97	5.93	100		
	4	64	0	.4					
	5	66	0	.4	14.99	.92	101	2	6
	6	63	0	.1					
	7	54	0	.3	15.56	.91	101		
	8	39	0	.1					
	9	30	0	.1	14.66	.91	99	2	19
	10	19	0	.2					
	11	9	0	.2	13.62	.92	99		
	12 m	7	0	.2					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948			Sky						
29. ix	1 am	16	0	17.2	12.70	6.00	99	1	18
	2	24	0	.1					
	3	36	0	.0	13.14	5.94	98		
	4	45	1	.0					
	5	51	1	16.9	.90	.74	96	0	17
	6	53	1	17.1					
	7		1	.1	14.88	.60	95		
	8	40	1	16.7					
	9	27	3	17.1	.56	.84	98	2	4
	10	22	1	.2					
	11	18	1	.3	13.12	.99	100		
	12 n	18	1	.6					
16. xi	1 pm	24	0	18.0	12.63	.96	100	2	21
	10 am	51	10	20.9	17.19	4.65	86	0	15
	11	39	10	21.0					
	12 n	25	10	.0	16.82	.50	83		
	1 pm	14	10	.1					
	2	3	10	.3	.30	.73	87	3	5
	3	4	9	.5					
	4	10	10	.6	15.71	.77	88		
	5	17	10	.6					
	6	30	10	.5	.69	.64	85	7	7
	7	41	10	.4					
	8	49	10	.3	16.35	.68	86		
17. xi	9	53	10	.0					
	10	48	10	.1	.80	.49	83	9	21
	11	38	10	.1					
	12 m	26	10	.1	.66	.23	78		
	1 am	15	10	.1					
	2	9	10	.1	.35	.63	85	6	8
	3	9	10	.2					
	4	14	10	.2	15.79	.65	85		
	5	30	10	.2					
	6	42	10	.0	16.17	.62	85	5	0
	7	55	10	.0					
	8	63	10	.1	.45	.65	86		
	9	66	10	.2					
	10		10		17.03	.49		3	11

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
3.v	1 pm	43	3	19.3	13.66	5.42	94	7	53
	2	41	4	.0					
	3	34	3	.0	.86	4.99	86		
	4	26	1	20.1					
	5	23	0	19.5	.19	5.04	87	3	63
	6	18	0	.0					
	7	22	0	18.6	12.51	.02	85		
	8	31		.5					
	9	39	1	.4	.33	.07	85	7	120
	10	52	1	.5					
	11	60		.5	14.17	4.89	84		
	12 m	65		.4					
4.v	1 am	64		.4	.96	.84	84	6	73
	2	57		.4					
	3	48	10	.4	.42	.74	82		
	4	37	10	.4					
	5	26	10	.4	13.97	.97	85	6	84
	6	18	9	.4					
	7	11	10	.4	.30	.79	81		
	8	13	10	.4					
	9	18	6	.4	12.71	.73	80	7	113
	10	27	6	.5					
	11	35	7	.5	.63	5.03	85		
	12 n	42	6	.5					
13.vii	1 pm	45	8	.6	13.50	.30	90	5	96
	2 pm	27	8	12.4	6.91	6.37	90	4	255
	3	21	7	.3					
	4	18	8	.2	.51	5.95	83		
	5	21	1	11.8					
	6	30	0	.6	5.68	6.18	85	3	298
	7	36		12.0					
	8	41		.3	7.53	5.88	84		
	9	58		.9					
	10	73		13.1	10.74	.81	87	5	187
	11	69		.6					
	12 m	57	5	12.3	.13	.75	84		
14.vii	1 am	44	10	11.3					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
14. vii	2 am	33	10	12.2	8.73	6.00	86	7	247
	3	21	10	.1					
	4	12	10	.1	.05	.08	87		
	5	8	10	11.9					
	6	11	10	.6	6.50	.05	84	2	253
	7	18	3	.6					
	8	28	2	.4	.15	.26	86		
	9	38	2	.4					
	10	45	0	12.3	7.29	.15	87	7	225
	11	50	0	.6					
	12 n	48	0	.8	9.04	.03	88		
	1 pm	40	0	.9					
	2	31	1	13.3	7.85	.58	96	5	220
28. ix	3 pm	61	10	16.8	5.06	5.64	85	3	142
	4	51	10	.9					
	5	42	10	.8	4.27	.92	89		
	6	31	10	.5					
	7	24	10	.4	3.48	.49	81	3	156
	8	20	8	.4					
	9	18	9	.3	2.33	.48	80		
	10	22	2	.2					
	11	30	1	.1	1.74	.42	78	3	180
	12 m	38	2	.1					
	1 am	45	10	.1	2.31	.67	82		
29. ix	2	46	10	.5					
	3	47	10	.5	3.24	.68	83	2	212
	4	42	10	.5					
	5	38	10	.4	4.00	.71	84		
	6	32	10	.0					
	7	29	10	.2	2.04	.59	81	0	180
	8	27	10	.2					
	9	29	2	.5	1.90	6.15	89		
	10	36	5	.8					
	11	43	7	.8	2.06	.08	89	3	178
	12 n	54	6	.9					
	1 pm	60	6	17.6	3.11	.02	90		
	2	64	6	.9					
	3	66	8	.3	4.29	.03	91	3	136

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
19.i	3 pm	13	5	25.2	12.75	3.83	73	0	39
	4	5	4	.0					
	5	5	2	.3	10.49	.77	73		
	6	13	0	.6					
	7	27	0	.5	9.79			17	57
	8	42	0	.3					
	9	53	0	.1	.29	.99	73		
	10	59	0	.1					
	11	52	0	.4	7.05	4.31	77	2	104
	12 m	42	0	.7					
20.i	1 am	32	0	.7	.16	.05	73		
	2	23	0	.7					
	3	13	0	.8	4.19	.39	77	10	55
	4	12	0	.7					
	5	21	0	.5	2.11	.33	74		
	6	30	0	.2					
	7	45	0	.2	1.66	.26	72	4	61
	8	57	0	.2					
	9	66	0	.3	.89	.39	74		
	10	71	0	.5					
	11	70	1	26.0	.15	.33	73	3	104
	12 n	62	2	.2					
	1 pm	50	1	25.9	.86	.18	71		
	2	37	2	.6					
	3	25	2	.7	0.85	3.98	67	5	258
22.11	11 am	42	5	21.5		4.12		7	90
	12 n	47	5	22.9					
	1 pm	47	4	23.3	0.96	3.97	64		
	2	40	6	.7					
	3	31	9	.0	.65	4.15	67	7	92
	4	23	9	.8					
	5	15	8	22.2	.93	.12	66		
	6	10	5	.0					
	7	8	8	.2	.45	.06	64	5	82
	8	12	4	.0					
	9	21	0	.0	.12	.02	63		
	10	31	2	21.9					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
22.11	11 pm	39	0	22.0	0.57	3.89	62	1	95
	12 m	46	0	21.8					
23.11	1 am	50	0	.9	1.19	4.06	64		
	2	47	0	.3					
	3	39	0	.2	.43	.00	63	4	71
	4	31	0	22.0					
	5	21	6	21.8	.33	.12	65		
	6	17	9	.7					
	7	13	10	.8	0.98	3.97	63	3	76
	8	11	5	.8					
	9	17	2	22.4	.42	4.00	64		
	10	25	2	.3					
	11	33	3	.0	.96	.02	64	9	86
30.111	1 pm	12	8	22.0	0.35	4.75	75	8-15	137
	2	16	4	.4					
	3	24	6	.4	.22	.61	73	6-18	
	4	33	8	.0					
	5	45	8	.0	.21	3.89	61	5-26	149
	6	54	5	.0					
	7	54	10	.2	.37	4.82	76	5-22	
	8	48	10	.0					
	9	45	10	.0	.60	3.23	51	6-15	137
	10	36	8	21.8					
	11	21	8	.6	.27	5.04	79	8-23	
	12 m	18	8	.6					
31.111	1 am	15	6	.4	.12	4.96	77	7-20	127
	2	6	6	.2					
	3	36	10	.3	.08	.96	77	7-24	
	4	47	9	.1					
	5	59	10	.0	.07	5.00	80	9-20	100
	6	66	10	20.9					
	7	70	10	.9	.05	4.94	76	4-21	99

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1950			Sky						
20. iv	12 n	45	8	19.9	7.35	4.18	68	7	109
	1 pm	37	8	20.2					
	2	27	8	19.9	5.02	.31	69		
	3	21	8	.7					
	4	17	7	.7		.12		7	172
	5	16	7	.7					
	6	20	8	.5	3.38	3.85	60		
	7	31	8	.5					
	8	41	2	.7	4.62	.51	56	7	140
	9	54	9	.5					
	10	60	9	.5	6.91	.64	59		
	11	64	9	20.0					
	12 n	60	9	.1	8.49	4.38	73	8	
21. iv	1 am	50	9	19.8					
	2	39	9	.5	6.24	.23	68		
	3	27	7	.5					
	4	20	7	.0	5.06	.12	65	6	174
	5	15	2	.0					
	6	13	3	.5	4.06	.15	65	6	156
17. vii	3.30 pm	30	9	12.0	0.84	6.87	91	10	200
	4.30	26	9	.0					
	5.30	30	9	11.4	.49	.80	88		163
	6.30	39	9	.3					
	7.30	56	9	.4	.43	.92	90	4	171
	8.30	68	8	.2					
	9.30	78	10	12.5	2.10	.69	90		125
	10.30	81	10	.7					
	11.30	79	10	.9	5.12	.32	88	1	118
18. vii	12.30 am	68	10	.4					
	1.30	57	9	.3	3.68	.52	89		135
	2.30	41	9	.0					
	3.30	30	10	.0	2.52	.51	87	1	161
	4.30	21	10	11.7					
	5.30	19	10	12.2	1.18	.83	91		119
	6.30	22	10	11.5					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
18. vii	7.30 am	34	10	11.4	0.56	6.81	88	1	150
	8.30	44	10	.4					
	9.30	55	10	.7	.53	.77	88		160
	10.30	63	10	.9					
	11.30	65	10	12.2	1.91	.61	88	5	137
	12.30 pm	61	10	.4					
	1.30	51	10	11.6	.61	.56	86		127
	2.30	41	9	.3					
	3.30	36	9	.1	.26	.60	86	6	141
14. viii	5.30 pm	40	1	13.6	4.36	7.58	107	0	105
	6.30	54	1	.7					
	7.30	67	1	14.0	.11	.88	112	2	110
	8.30	76	1	.2					
	9.30	81	1	.7	8.33	6.75	102	4	74
	10.30	75	1	.8					
	11.30	63	2	.0	.43	.07	90	3	70
15. viii	12.30 am	51	2	13.7					
	1.30	36	8	.5	6.80	5.77	83	5	84
	2.30	21	8	.4					
	3.30	11	5	.0	4.81	6.82	95	2	114
	4.30	11	8	12.9					
	5.30	20	8	.8	3.76	7.26	100	0	121
	6.30	32	6	.5					
	7.30	47	8	13.0	4.22	6.77	94	3	92
	8.30	53	9	.7					
	9.30	65	9	.9	6.64	.78	98	3	114
	10.30	65	4	14.2					
	11.30	60	5	.4	8.38	.72	100	6	88
	12.30 pm	49	8	.3					
	1.30	35	9	13.0	4.83	.75	94	11	134
	2.30	25	9	.3					
	3.30	18	8	.2	.71	7.25	102	1	139
	4.30	18	5	12.9					
	5.30	26	4	.7	3.20	.67	105	0	160

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
18. ix	5 pm	44	8	18.4	6.71	7.61	120	5	207
	6	36	9	.0					
	7	29	9	17.8	5.92	.14	111		
	8	24	9	.6					
	9	22	9	.5	.04	9.04	138	5	296
	10	24	9	.4					
	11	30	9	.5	4.30	10.25	156		
	12 m	38	9	.5					
19. ix	1 am	45	9	.5	5.31	7.70	118	7	281
	2	49	9	.4					
	3	51	9	.3	.70	6.42	99		
	4	48	2	.6					
	5	42	2	.2	6.07	7.89	121	6	266
	6	36	8	.1					
	7	32	6	.2	4.81	8.68	132		
	8	30	10	.0					
	9	30	10	16.9	.10	6.77	101	6	278
	10	31	4	17.3					
	11	41	4	.3	3.57	7.16	107		
	12 n	50	3	.4					
	1 pm	56	4	.6	4.20	6.72	102	7	348
	2	62	4	.7					
	3	65	3	.9	6.29	7.21	109		
	4	64	2	.9					
	5	57	4	.8	8.15	.40	118	4	211
13. xi	7 pm	18	6	22.4	7.74	5.05	86	4	37
	8	27	4	.4					
	9	39	2	.2	.07	.06	85		
	10	51	2	.3					
	11	58	3	.6	10.18	4.95	87	4	152
	12 m	62	2	.5					
14. xi	1 am	60	2	.5	.20	.85	85		
	2	51	2	.2					
	3	42	2	.1	8.45	.96	85	3	199
	4	32	2	.1					
	5	25	2	.2	7.14	.97	84		
	6	28	2	.1					

Location: HAWKESBURY RIVER - PUMPKIN POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
14. xi	7 am	33	2	22.1	6.33	4.95	83	3	255
	8	42	4	.2					
	9	55	4	.4	.92	.90	83		
	10	69	8	.7					
	11	78	10	.6	10.31	.83	85	5	323
	12 n	82	8	.5					
	1 pm	82	5	.7	12.28	.84	87		
	2	74	8	23.0					
	3	60	8	.4	11.08	5.06	91	3	304
	4	48	6	.0					
	5	36	10	22.7	9.56	4.90	86		
	6	26	10	.7					
	7	18	10	.5	7.16	5.00	85	5	328

Location: GEORGES RIVER NO. 1 - KURNELL WHARF

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
17. viii	12 n	32	16.0	15.4	19.15	6.04	104	0-9	15
	1 pm	41	15.5	.5					
	2	47	19.8	.7	.15	.83	118	0	15
	3	48	16.0	16.0					
	4	47	19.2	15.4	.17	.57	113	0-6	15
	5	42	.0	16.0					
	6	37	16.5	15.1	.19	4.23	73	0	19
	7	29	14.0	.2					
	8	23	13.9	.0	.20	3.85	66	0-9	15
	9	17	.5	.0					
	10	17	12.8	16.0	.22			0	15
18. viii	11	23	11.3	15.6					
	12 m	24	13.1	.3	.20	5.63	97	0-7	6
	1 am	29	.2	14.5					
	2	33	10.0	.5	.19	4.34	74	0	15
	3	37	9.7	15.5					
	4	36	.5	14.2	.19	5.90	99	0-6	15
	5	34	.0	15.0					
	6	31	.1	14.5	.17	.59	94	0	7
	7	23	.0	.0					
	8	19	10.7	15.2	.18	.30	91	0-6	15
	9	16	13.0	14.1					
	10	17	14.6	13.6	.07			1	17
	11	22	16.0	14.5					
	12	27	17.2		.28			0-8	15

Location: GEORGES RIVER NO. 7a - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
17. viii	12 n	26	18.9	14.8	18.16	5.83	98	0-9	0
	1 pm	40	19.4	.6					
	2	45	20.0	.6	.21	.79	97	15	19
	3	48	21.1	.7					
	4	47	.7	.7	.19	.90	99	13-0	15
	5	43	.1	.5					
	6	37	17.2	.5	.21	4.20	70	18	19
	7	29	15.6	.5					
	8	23	.6	.5	.25	5.95	100	17-13	15
	9	18	.0	.5					
	10	17	13.6	.5	.40	.69	96	16	19
	11	20	11.7	.5					
	12 m	23	12.2	.5	.33	.85	98	8-6	19
18. viii	1 am	26	.2	.5					
	2	29	11.1	.0	.35	.91	99	13	19
	3	31	.4	13.8					
	4	37	16.7	.8	.28	.68	94	20-0	15
	5	35	11.7	.5					
	6	30	10.6	.5	.33	.51	91	16	19
	7	25	.3	.0					
	8	18	.6	.2	.27	.69	93	20-0	19
	9	15	12.8	.5					
	10	17	14.4	.5	.29	.69	94	15	13
	11	17	16.7	.5					
	12 n	26	17.8	.5	.30			16-23	19

Location: GEORGES RIVER NO. 12 - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1945									
17. viii	1 pm	37		14.5	7.89	6.21	92	0-5	135
	2	41		.5					
	3	47		.2	8.74	.20	93	0	135
	4	50		.3					
	5	50		.1	9.46	.08	91	0-6	122
	6	45		.2					
	7	39		.1	8.14	5.82	86	11	135
	8	31		13.9					
	9	24		14.0	6.79	.42	79	0-23	160
	10	19		.0					
	11	17		13.5	5.76	4.95	71	0	190
	12 m	24		.3					
18. viii	1 am	30		.3	.86	5.10	73	1-7	190
	2	35		.6					
	3	40		.1	7.56	4.80	69	0	160
	4	44		.5					
	5	46		12.9	8.02	5.29	76	12-0	150
	6	42		13.5					
	7	37		12.7	7.06	3.82	54	11	168
	8	32		13.0					
	9	24		.5	6.60	5.49	79	14-4	175
	10	22		.8					
	11	22		14.6	5.17	6.31	91	22	190
	12 n	26		.7					
	1 pm	33		.9	6.20	.24	92	10-16	175

Location: GEORGES RIVER NO. 17 - HOLLYWOOD

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
17.viii	1 pm	32		14.2	0.73	6.32	87		275
	3	41		.2	1.07	.25	86		275
	5	52		.2	.39	.24	86	0-26	300
	7	41		13.9	.06	.02	82	2-28	325
	9	29		.7	0.71	.03	80	0-44	275
	11	17		.5	.56			0	325
18.viii	1 am	22		12.7	.52			0-50	275
	3	32		.8	.77	5.96	80	0	325
	5	41		.9	1.11	.85	78	0-29	275
	7	35		.5	0.86	.85	78	0	300
	9	25		13.8	.63	.73	78	0-37	300
	11	16		14.3	.51	.68	78	0	275
	1 pm	25		.4	.56	.78	79	0-28	275

Location: GEORGES RIVER NO. 19 - PROSPECT CREEK, CARRAMAR

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1945									
17. viii	2 pm	27			0.26	5.11		0-55	380
	3	35							
	4	42		11.7	.30	4.98	65	0	325
	5	46		.6					
	6	44		.8	.29	.92	64	4-80	360
	7	36		.8					
	8	29		.8	.27	.50	59	0	300
	9	23		.8					
	10	18		.8	.27	5.19	68	0-58	325
	11	17		.8					
	12 m	17		12.0	.25	4.58	60	0	325
18. viii	1 am	17		11.8					
	2	17		12.0	.26	5.15	68	0-58	325
	3	23		11.8					
	4	32		12.0	.26			0	325
	5	33		.2					
	6	34		.0	.27	4.92	65	0-75	325
	7	28		.0					
	8	22		11.8	.26	.76	62	0	275
	9	19		.7					
	10	17		.7	.27	.57	59	0-58	325
	11	17		.7					
	12 m	17		.7	.26	.98	65	0	300
	1 pm	17		.6					
	2	25			.27	.13		0-50	325

Location: GEORGES RIVER NO. 21 - INGLEBURN

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1945									
17.viii	1 pm	17		14.4	0.03	6.89	95	0-9	26
	2	17		.9					
	3	17		.5	.06	.90	95	0	30
	4	17		.3					
	5	17		.3	.05	.93	95	0-9	25
	6	17		.1					
	7	17		13.9	.05	.97	95	0	28
	8	17		.8					
	9	17		.8	.05	.93	94	0-6	32
	10	17		.6					
	11	17		.5	.05	.93	94	0	30
	12 m	17		.4					
18.viii	1 am	17		.2	.05	.96	94		22
	2	17		.0					
	3	17		12.9	.04	.90	92	0-35	26
	4	17		.8					
	5	17		.7	.04	.99	93	0-42	26
	6	17		.6					
	7	17		.5	.04	.87	91	0	26
	8	17		.4					
	9	17		.5	.05	5.17	69		28
	10	18		.8					
	11	18		13.0	.05	6.94	93		25
	12 n	18		14.1					
	1 pm	18		.1	.05	.93	95	0-32	30

SURFACE

Location: GEORGES RIVER - PICNIC POINT - OBSERVATIONS

Date	Time	Tide. (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
23. xi	3 pm			22.1	4.02	5.08	83		114
	4	48							
	5	65		21.9		.45			
	6	67		22.1	7.02	.73	97		90
	7	66		.2		.82			
	8	60		21.9	8.21	.65	96		86
	9	48		.7	7.22	.63	95		
	10	31		.5	6.42	.42	91		99
	11	16		.4		.28			
	12 m	11		.4	4.69	.10	83		153
24. xi	1 am	1		.4		.00			
	2	1		.3	3.10	4.68	75		169
	3	25		.1	.10	.87	78		
	4	46		.0	.50	.95	79		178
	5	54		.2		5.01			
	6	67		.2	6.02	.37	88		145
	7	74		.2		.18			
	8	74		.4	8.77	.36	91		75
	9	56		.4	.94	.05	86		
	10	39		.4	7.82				112
	11	29		.4		.17			
	12 n	18		.4	5.66				128
	1 pm	9		.5		.05			
	2	0		.6	3.97				128
	3	30		.7	.45	.01	81		169

BOTTOM

Location: GEORGES RIVER - PIONIC POINT - OBSERVATIONS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
23. xi	3 pm			21.3	5.23	4.72	77		141
	5			.5		.91			
	6			.9	7.74				86
	7			22.0		5.53			
	8			21.9	9.48				75
	9			22.0	.14	.83	101		
	10			21.8	7.52				107
	11			.5		.36			
	12 m			.4	4.88				145
24. xi	1 am			.3		4.65			
	2			.3	3.40				178
	3			.3	4.00	.76	77		
	4			.2	.24				178
	5			.2		.95			
	6			.2	8.54				85
	7			.3		5.29			
	8			.3	9.38				85
	9			.3	.70	.43	93		
	10			.3	.11				65
	11			.3		.23			
	12 n			.3	6.47				119
	1 pm			.3		4.75			
	2			.4	4.56				145
	3			.4	.11	.82	78		155

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide. (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/∞	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1944									
21. xi	12 n	54		22.8	18.61	4.06	79	0-3	8
	1 pm	57		.8					
	2	54		.9	19.36	.31	84		5
	3	45		23.4					
	4	39		.7	17.98	.54	88	0-2	8
	5	30		.5					
	6	18		.3	16.68	.63	89		16
	7	10		22.9					
	8	4		.8	15.62	.39	82	0-4	29
	9	6		.8					
	10	13		.5	.47	.27	80		14
	11	20		.7					
	12 m	24		.9	16.83	.29	82	0-4	14
22. xi	1 am	35		.9					
	2	39		.8	17.82	.19	81		14
	3	32		.8					
	4	25		.8	16.26	.08	77	0-2	26
	5	20		.4					
	6	15		.0	15.92	.08	76		19
	7	9		.1					
	8	12		.3	.49	.15	77	0-1	26
	9	17		.5					
	10	24		.8	16.31	.18	79		16
	11	33		23.1					
	12 n	42		22.9	17.52	.15	80	0-5	14
19. xii	12 n	69		24.9	20.26	3.90	80	0-5	0
	1 pm	66		.7					
	2	58		25.0	.27	4.07	84		
	3	46		.2					
	4	33		.4	19.30	.25	87	0-2	20
	5	27		.4					
	6	18		.2	18.26	.45	89		
	7	9		24.9					
	8	13		.9	17.54	.50	89	0-5	15
	9	25		.7					
	10	30		.9	18.16	.25	85		
	11	37		25.0					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1944									
19.xii	12 m	44		24.7	19.49	3.97	80	0-4	0
20.xii	1 am	47		.5					
	2	40		.5	18.89	.97	79		
	3	32		.4					
	4	24		.5	.62	.95	79	0-4	3
	5	18		.0					
	6	12		.1	17.87	4.20	83		
	7	15		.3					
	8	21		.3	.83	.07	80	0-9	0
	9	30		.5					
	10	42		.6	18.78	.10	82		
	11	51		.7					
	12 n	62		.5	19.98	3.90	79	0-5	0
1945									
16.i	12 n	64		24.1	19.35	3.76	75	0-8	19
	1 pm	52		.1					
	2	45		.1	18.50	4.00	79		11
	3	35		23.9					
	4	25		24.0	16.50	.36	84	0-28	8
	5	13		23.9					
	6	4		.6	13.81	.15	77		51
	7	10		.6					
	8	22		.5	12.02	3.40	62	0-26	136
	9	31		.8					
	10	37		24.0	13.89	.89	73		58
	11	46		23.9					
	12 m	49		.9	15.79	.99	76	0-19	18
17.i	1 am	41		.4					
	2	34		.3	13.21	.64	67		61
	3	25		22.5					
	4	13		.7	8.81	2.80	49	0-0	250
	5	8		.4					
	6	7		.1	7.16	.67	45		292
	7	16		.4					
	8	26		.8	9.51	.75	48	0-40	250
	9	37		23.1					
	10	50		.5	14.17	3.92	73		72
	11	61		.5					
	12 n	65		.5	16.98	.97	76	0-7	18

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl %/oo	O ₂	O ₂ %/o	PO ₄ -P	NO ₃ -N
1945									
12.11	3 pm	18		25.0	16.89	4.42	87	0-30	0
	4	7		.3					
	5	0		.1	15.28	3.59	70		
	6	9		.1					
	7	18		.1	14.94	4.23	82	0-40	5
	8	30		24.9					
	9	40		.5	17.84	.21	83		
	10	45		.0					
	11	48		.3	19.07	.37	87	0-30	0
	12 m	40		.3					
13.11	1 am	33		.4	18.68	.24			
	2	23		.3					
	3	12		.4	16.60	.00	78	0-28	0
	4	5		.4					
	6	18			15.30	3.91			
	7	27		.2	16.08	.99	77	0-25	0
	8	36		.0					
	9	53		23.7	18.83	4.10	81		
	10	63		.5					
	11	68		.5	19.50	.24	84	0-23	0
	12 n	60		24.0					
	1 pm	52		.0	.45	.20	83		
	2	40		.5	18.70	3.36	67	0-15	0
	3	30		.7	.70	.36	67	0-15	0
14.11	3 pm	16		23.2	17.90	4.53	103	0-5	7
	4	3		.3					
	5	2		.2	16.51	.57	87		
	6	13		.0					
	7	25		22.9	.83	.51	86	0-4	8
	8	35		.7					
	9	43		.5	18.92	.62	89		
	10	53		.2					
	11	46		.3	19.70	.54	88	1-1	1
	12 m	41		.3					
15.11	1 am	32		.3	.37	.51	87		
	2	22		.9					
	3	12		.5	17.21	.20	80	-0-1	8

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
15.iii	4 am	0		22.5					
	5	7		.5	16.32	4.14	78		
	6	17		.4					
	7	25		.5	.88	.08	77	1-2	12
	8	40		.1					
	9	51		.0	19.32	.29	80		
	10	61		.1					
	11	61		.2	.75	.39	85	1-2	22
	12 n	54		.3					
	1 pm	43		.5	.74	.45	87		
	2	32		.6					
	3	22		.8	18.98	.44	86	0-3	7
10.iv	1 pm	9		18.7	12.66	5.14	87	1-3	280
	2	2		.9					
	3	2		19.0	10.10	4.69	78	0	460
	4	13		.0					
	5	22		.0	11.51	5.34	90	0-9	380
	6	33		18.9					
	7	43		.9	14.54	4.77	83	9	230
	8	49		.9					
	9	48		.9	15.87	.86	86	3-2	280
	10	40		.9					
	11	30		.8	14.39	.96	86	9	230
	12 m	22		.8					
11.iv	1 am	13		.8	12.36	5.02	85	0-13	380
	2	4		.7					
	3	4		.6	10.25	4.90	81	0	380
	4	14		.5					
	5	23		.5	12.29	.91	83	1-4	332
	6	33		.5					
	7	48		.5	14.88	.57	79	0	210
	8	54		.5					
	9	55		.5	16.11	.67	82	0-3	210
	10	47							
	11	39		.8	15.31	.64	81	1	258
	12 n	28		.9					
	1 pm	18		.9	12.87	5.11	87	0-3	280

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
23. v	12 n	6		14.1	1.64	4.03	56	5-6	780
	1 pm	2		.1					
	2	6		.6	.08	.57	63	5-18	780
	3	13		.5					
	4	22		.2	.84	.68	65	5-0	780
	5	32		.5					
	6	42		15.0	4.41	5.93	86	1-9	780
	7	47		14.9					
	8	46		15.0	6.20	.55	81	0-11	780
	9	41		.0					
	10	33		14.8	4.75	.43	79	2-4	780
	11	24		.5					
	12 m	16		.5	2.60	.32	75	2-3	780
24. v	1 am	7		.2					
	2.30	10		.0	1.41	4.75	65	0-11	780
	4	21		.0	.79	.67	64	1-11	1170
	5	28		.2					
	6	36		.4	3.52	5.18	74	2-9	970
	7	42		.5					
	8	42		.6	5.80			4-8	970
	10	27		.5	3.42	.07	72	2-8	970
	11	18		.5					
	12 n	12		.6	2.38	4.77	67	2-2	970
20. vi	1 pm	12	19.2	14.9	0.30	4.71	65	0-32	390
	2	17	18.9	.7					
	3	25	.1	.9	.38	.61	64		
	4	33		.7					
	5	37		.7	.51	.20	58	0-41	460
	6	55	14.5	.8					
	7	41	.3	.7	.92	.56	63		
	8	33	16.8	.9					
	9	25	.8	.8	.43	.71	65	0-35	390
	10	18	17.0	.6					
	11	12	.3	.6	.36	.60	63		
	12 m	11	.5	15.0					
21. vi	1 am	12	.3	14.5	.35	.65	64	0-35	390
	2	17	18.4	.5					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
21. vi	3 am	25	17.0	14.5	0.33	5.10	70		
	4	32	13.8	.5					
	5	37	14.0	.6	.49	4.85	67	0-44	377
	6	39	.2	.6					
	7	36	.0	.6	.62	.79	66		
	8	30	.5	.6					
	9	20	.5	.6	.43	.86	67	0-20	390
	10	15	17.2	.6					
	11	9	.6	.6	.34	.56	63		
	12 n	6	.6	.6					
	1 pm	7	18.2	.6	.33	.75	65	0-30	420
24. vii	12 n	21		10.1	3.77	6.60	86	0-3	460
	1 pm	15		11.5					
	2	9		.5	2.49	.66	88		
	3	10		.6					
	4	16		.4	.38	.54	86	0-0	460
	5	24		.4					
	6	36		.4	3.85	.54	88		
	7	45		.4					
	8	54		.4	7.47	.85	95	0-0	310
	9	62		.4					
	10	60		.4	8.84	.89	98		
	11	53		.2					
	12 n	42		10.9	5.78	.60	89	0-4	390
25. vii	1 am	33		.9					
	2	21		.7	4.28	.30	83		
	3	11		.5					
	4	2		.5	2.36	.16	80	0-2	460
	5	9		.3					
	6	18		.4	.36	.30	82		
	7	27		.5					
	8	35		.6	3.99	.34	84	0-0	410
	9	41		11.1					
	10	43		.1	5.81	.56	77		
	11	33		.5					
	12 n	27		.6	4.58	.56	89	0-0	390

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
17.viii	1 pm	37		14.5	7.89	6.21	92	0-5	135
	2	41		.5					
	3	47		.2	8.74	.20	93	0	135
	4	50		.3					
	5	50		.1	9.46	.08	91	0-6	122
	6	45		.2					
	7	39		.1	8.14	5.82	86	11	135
	8	31		13.9					
	9	24		14.0	6.79	.42	79	0-23	160
	10	19		.0					
	11	17		13.5	5.76	4.95	71	0	190
	12 m	24		.3					
18.viii	1 am	30		.3	.86	5.10	73	1-7	190
	2	35		.6					
	3	40		.1	7.56	4.80	69	0	160
	4	44		.5					
	5	46		12.9	8.02	5.29	76	12-0	150
	6	42		13.5					
	7	37		12.7	7.06	3.82	54	11	168
	8	32		13.0					
	9	24		.5	6.60	5.49	79	14-4	175
	10	22		.8					
	11	22		14.6	5.17	6.31	91	22	190
	12 n	26		.7					
	1 pm	33		.9	6.20	.24	92	10-16	175
18.ix	8 am	36		17.7	12.36	5.61	93	0-1	75
	9	30		.2					
	10	24		.5	11.40	.83	95		
	11	18		.5					
	12 n	11		18.4	9.84	6.06	99	0-1	95
	1 pm	17		19.0					
	2	24		17.4	.42	.29	104		
	3	29		16.8					
	4	40		.8	11.48	5.91	96	0	65
	5	50		18.9					
	6	57		.1	13.56	.61	95		
	7	61		.1					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
18.1x	8 pm	54		18.7	14.37	5.50	95	0-0	40
	9	48		.1					
	10	42		17.4	12.86	.58	93		
	11	30		.6					
	12 m	18		18.4	11.14	.67	94	0-0	66
19.1x	1 am	12		.0					
	2	10		.0	9.58	6.08	98		
	3	16		.0					
	4	24		17.5	10.02	.03	97	0-0	98
	5	33		.0					
	6	40		.0	11.65	5.69	93		
	7	46		19.1					
	8	48		16.9	13.08	.21	86	0-0	53
17.x	9 am	24		20.0	13.80	5.21	91	0-2	11
	10	19							
	11	13		.1	12.65	.35	93		7
	12 n	12		.5					
	1 pm	12		.7	.30	.55	97	0-1	7
	2	24		.5					
	3	33		.7	13.64	.39	96		-9
	4	44		.6					
	5	56		.5	15.24	.26	94	0-2	11
	6	56		.5					
	7	52		.5	16.36	.13	94		11
	8	47		.0					
	9	39		.0	15.06	.15	92	0-4	11
	10	28		.0					
	11	17		.0	13.48	.15	90		7
	12 m	9		.0					
18.x	1 am	3		.0	11.53	.37	90	0-6	7
	2	6		.0					
	3	15		.0	12.10	4.88	84		7
	4	24		.0					
	5	32		.0	13.46	.37	76	0-5	7

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1945									
14. xi	9 am	21		21.3	14.78	4.53	82	0-2	15
	10	15		.2					
	11	19		.4	.57	.69	85		
	12 n	26		.6					
	1 pm	33		.9	15.90	.63	86	0-2	7
	2	39		.9					
	3	45		.9	17.09	.45	84		
	4	51		.5					
	5	51		.5	.96	.46	84	0-1	9
	6	41		.5					
	7	38		.7	.05	.30	80		
	8	33		.7					
	9	24		.6	16.07	.46	83	0-4	9
	10	15		.6					
	11	9		.5	14.62	.39	80		
15. xi	1 am	9		.6	.52	3.90	71	0-14	9
	2	19		.6					
	3	27		.4	15.26	.83	70		
	4	33		.3					
	5	39		.3	16.94	4.19	78	0-4	9
	6	45		.3					
	7	40		.9	17.31	.19	79		
	8	34		.9					
	9	28		.9	16.11	.37	82	0-0	9
13. xii	10 am	15		24.8	15.54	4.71	91	0-9	7
	11	18		.8					
	12 n	27		.6	16.27	.48	87		9
	1 pm	36		.7					
	2	44		.6	17.43	.31	85	3-0	22
	3	50		.5					
	4	54		.6	18.49	.40	87		15
	5	50		.7					
	6	43		.8	17.96	.53	90	1-0	24
	7	36		.9					
	8	25		.9	16.91	.08	80		9
	9	16		25.1					
	10	12		24.9	15.68	.55	89	1-10	7

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1945									
13. xii	11 pm	6		24.5					
	12 m	12		.5	15.21	4.69	90		7
14. xii	1 am	19		.5					
	2	26		.5	16.61	.50	88	3-9	9
	3	32		.4					
	4	42		.6	17.58	.18	83		18
	5	48		.8					
	6	44		.6	.97	.93	98	3-17	15
	7	38		.4					
	8	32		.4	.13	.23	83		13
	9	22		.7					
	10	16		.8	16.01	.71	92	4-1	0
1946									
4. i	9 am	64		25.4	19.15	3.55	72	0-11	13
	10	71		.4					
	11	68		.6	.41	.77	77		
	12 n	61		26.1					
	1 pm	49		.3	18.80	4.33	89	0-11	13
	2	37		.4					
	3	30		.7	17.67				
	4	21							
	5	11		.6	.14			1-11	0
	6	20		.5					
	7	30		.6	16.89	3.68	75		
	8	39		.6					
	9	47		.4	17.97	.92	80	0-13	4
	10	53		.4					
	11	50		.0	18.90	.75	77		
	12 m	44		.0					
5. i	1 am	37		.1	17.95	.75	76	0-12	4
	2	29		.0					
	3	21		.0	16.84	.86	78		
	4	18		.0					
	5	22		.0	.77	.89	78	0-16	0
	6	31		.0					
	7	42		.1	17.65	.74	76		
	8	51		.3					
	9	63		.4	18.61	.62	75	0-16	13

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1946									
31. i	12 n	36		28.8	18.87	4.45	96	11-5	10
	1 pm	30		29.2					
	2	21		.5	.01	.50	97		
	3	15		.9					
	4	18		30.9	17.54	.17	100	11-0	10
	5	21		32.5					
	6	33		.4	18.15	.17	96		
	7	42		29.9					
	8	48		.1	19.15	.20	91	10-0	0
	9	49		28.8					
	10	42		.5	.24	3.72	80		
	11	36		.4					
	12 m	24		29.1	18.48	.80	80	9-0	5
1. ii	1 am	21		.1					
	2	15		28.8	17.70	.35	71		
	3	12		.5					
	4	25		.1	.73	.45	71	9-0	10
	5	38		.1					
	6	51		.1	18.66	.56	74		
	7	54		.1					
	8	60		.2	19.91	.71	80	6-0	5
	9	62		.0					
	10	60		27.9	20.22	.85	83		
	11	51		28.5					
	12 n	42		29.5	19.73	4.61	102	10-0	11
27. ii	11 am	14		26.2	18.23	4.55	93	0-8	10
	12 n	12		.6					
	1 pm	12		27.9	17.70	.51	95		
	2	14		.5					
	3	18		26.5	.99	.35	90	0-11	10
	4	24		27.0					
	5	30		.5	18.41	.40	92		
	6	34		26.3					
	7	34		.3	.94	.38	91	1-5	42
	8	30		.3					
	9	27		.5	.70	.50	93		
	10	19		.5					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
27.11	11 pm	14		26.4	18.15	4.15	86	0-6	10
	12 m	8		.4					
28.11	1 am	12		25.6	17.75	3.60	73		
	2	18		26.2					
	3	26		.4	18.20	.92	81	0-7	9
	4	32		.4					
	5	42		25.6	.98	.93	80		
	6	46		26.3					
	7	51		.3	19.56	.80	79	1-10	48
	8	49		25.6					
	9	43		.5	.42	4.15	86		
	10	36		26.3					
	11	28		25.7	18.90	.20	87	0-5	31
26.111	4 pm	36		22.7	19.31	3.60	70	0-6	53
	5	36		.5					
	6	33		.5	.39	.60	70		
	7	30		.1					
	8	24		.4	.00	.38	65	0-6	47
	9	23		.2					
	10	23		.1	18.80	.40	66		
	11	27		.1					
	12 m	33		.2	19.09	.28	64	2-0	47
27.111	1 am	39		.0					
	2	45		21.8	.29	.50	67		
	3	49		.7					
	4	51		.6	.29	.29	63	2-9	60
	5	48		.5					
	6	44		.5	.14	.30	63		
	7	38		.6					
	8	32		.8	.30	.25	63	4-6	60
	9	26		.8					
	10	18		22.0	18.77	.12	60		
	11	18		.1					
	12 n	18		.2	.37	.27	62	0-5	42
	1 pm	21		.4					
	2	27		.7	.43	.55	62		
	3	33		.4					
	4	36		.4	.92	.34	64	0-9	53

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1946									
14. vi	6 pm	30		11.5	2.83	4.42	59	2-7	1800
	7	39		.6					
	8	48		.7	4.61	6.34	86	0	
	9	54		.7					
	10	57		.7	6.58	7.46	104	0-4	900
	11	54		.7					
	12 m	45		.7	5.48	6.45	88	0	
15. vi	1 am	34		.5					
	2	24		.3	3.22	.05	81	2-4	1800
	3	15		.2					
	4	12		.0	1.52	5.60	73	0	
	5	6		.0					
	6	15		10.8	.28	.58	72	0-13	900
	7	22		11.0					
	8	30		.0	3.03	6.04	80	2	
	9	39		.1					
	10	30		.2	4.43	.45	87	0-0	900
	11	39		.4					
	12 n	33		.4	.05	.35	85	0	
	2 pm	19		.3	2.20	5.55	73	0-0	900
	3	15		.3					
	4	15		.3	1.43	.43	71	0	
	5	24		.3					
	6	30		.4	2.30	.95	79	0-6	900
12. viii	11 am	36		13.3	14.19	5.90	92	0-0	38
	12 n	27		.3					
	1 pm	18		.5	12.44	.66	87		
	2	12		.5					
	3	6		.7	10.83	.81	88	0-0	122
	4	15		.8					
	5	21		.7	11.32	.90	90		
	6	36		14.0					
	7	45		.0	13.70	.88	93	0-0	47
	8	56		.1					
	9	62		.1	15.60	.90	95		
	10	63		.1					
	11	57		.1	.80	.80	94	0-4	10

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C	Water Temp. °C	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
12. viii	12 m	45		14.1					
13. viii	1 am	36		13.9	14.38	5.90	94		
	2	26		.8					
	3	15		.5	11.70	.86	89	0-0	85
	4	12		.3					
	5	15		.4	.03	.84	88		
	6	24		.4					
	7	33		.4	12.82	.76	89		66
	8	39		.5					
	9	45		.8	14.33	.66	90		
	11	44		14.0	.94	.57	89	0-2	26
14. x	10 am	54		21.1	18.36	4.56	86	1-3	9
	11	61		.8					
	12 n	66		.5	.95	.59	87		
	1 pm	63		.6					
	2	53		.4	19.02	.75	90	0-1	11
	3	44		.1					
	4	30		.0	18.16	.58	81		
	5	18		.0					
	6	9		.0	15.79	.64	85	1-0	38
	7	10		.0					
	8	12		.0	.44	.59	94		
	9	27		20.8					
	10	39		.8	17.04	.54	84	0-1	50
	11	48		.8					
	12 m	54		.8	18.51	.50	85		
15. x	1 am	60		.8					
	2	48		.7	.41	.48	84	0-1	14
	3	39		.5					
	4	30		.2	17.39	.43	81		
	5	21		.0					
	6	18		.0	15.69	.44	80	0-0	47
	7	20		.0					
	8	25		.0	.59	.43	79		
	9	33		.0					
	10	45		.0	17.00	.39	80	0-0	28

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1946									
27. xi	10 am	57		24.7	13.12	4.95	93	1-2	64
	11	59		.8					
	12 n	59		.9	.64	5.15	98		
	1 pm	51		23.0					
	2	45		24.1	.01	4.95	92	0-6	175
	3	35		.2					
	4	24		.0	12.99	.60	86		
	5	12		23.1					
	6	9		22.5	8.04	.45	77	0-0	220
	7	6		23.0					
	8	18		24.0	7.01	.22	74		
	9	24		23.9					
	10	30		24.0	9.04	.35	78	1-5	220
	11	35		23.9					
	12 m	39		.8	11.11	.40	80		
28. xi	1 am	30		.7					
	2	30		.7	10.03	.22	76	5-1	155
	3	24		.7					
	4	18		.7	8.42	.04	70		
	5	9		.6					
	6	6		.6	6.91	.04	70	5-1	310
	7	12		.6					
	8	24		.8	7.98	.22	70		
	9	33		.8					
	10	42		.8	10.93	3.97	72	1-2	165
1947									
23. i	11 am	75		26.4	18.73	4.00	83	0-19	17
	12 n	67		.5					
	1 pm	59		.6	.30	.50	93		
	2	51		.6					
	3	42		27.0	16.71	.55	92	0-16	14
	4	33		.1					
	5	27		.3	15.17	.49	90		
	6	33		.4					
	7	43		.3	.25	.23	85	0-13	20
	8	49		.0					
	9	57		26.8	16.61	.37	89		
	10	60		.7					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
23. i	11 pm	65		26.7	17.91	3.94	79	0-15	12
	12 m	60		.6					
24. i	1 am	54		.5	.61	4.23	86		
	2	48		.4					
	3	42		.3	15.39	.15	82	0-15	17
	4	36		.1					
	5	32		.9	14.94	.06	81		
	6	40		.9					
	7	47		.7	15.83	3.92	79	0-5	14
	8	57		.9					
	9	66		.7	17.73	.68	76		
	10			27.0					
	11			26.8	18.63	.89	81	0-28	12
4. iii	10 am	69		24.5	16.35	4.11	80	6-3	75
	11	57		.5					
	12 n	45		.3	14.30	.03	76		
	1 pm	33		.3					
	2	26		.4	13.32	.11	77	5-7	157
	3	32		.5					
	4	38		.6	12.87	.30	81		
	5	48		.5					
	6	54		.5	15.90	3.58	69	6-2	124
	7	63		.4					
	8	69		.3	16.78	4.53	88		
	9	66		.4					
	10	60		.4	.70	.37	85	5-2	60
	11	53		.3					
	12 m	44		.3	14.27	.23	80		
5. iii	1 am	36		.2					
	2	32		.1	12.89	.03	76	3-3	180
	3	40		.1					
	4	48		.1	13.62	.11	77		
	5	55		.1					
	6	68		.0	16.11	.17	80	3-6	75
	7	82		23.8					
	8	84		.5	17.45	.08	79		
	9	90		.5					
	10	84		.6	.40	.11	81	3-4	46

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
25.iii	5 pm	2		23.1	10.77	4.55	82	0-1	259
	6	2		22.7					
	7	12		23.0	.45	.52	79		180
	8	21		.0					
	9	30		.0	12.65	.46	81	0-3	82
	10	42		22.5					
	11	51		.7	16.16	.72	89		115
	12 m	54		.7					
26.iii	1 am	44		.7	.73	.72	89	0-3	32
	2	40		.7					
	3	30		.5	14.73	.58	85		98
	4	21		.5					
	5	10		.5	12.03	.27	77	0-3	180
	6	4		.5					
	7	5		.3	10.08	.16	73		238
	8	14		.3					
	9	24		.5	11.75	.18	75	0-0	180
	10	33		.5					
	11	40		.5	14.83	.66	86		94
	12 n	46		.7					
	1 pm	43		.9	16.10	.85	92	0-6	38
	2	36		23.0					
	3	28		.2	14.55	.94	92		112
	4	19		.2					
	5	12	Sky	.2	12.23	.71	86	0-3	162
30.iv	3 pm	27	2	18.5	7.71	5.39	86	0-3	442
	4	34	2	.5					
	5	41	2	.6	9.45	.23	86		324
	6	40	2	.6					
	7	36	0	.4	.49	.15	84	0-0	374
	8	29	2	.5					
	9	21	0	.0	7.25	.03	80		442
	10	15	1	.0					
	11	12	0	17.9	5.41	.03	78	0-7	544
	12 m	14	0	.9					
1.v	1 am	21	0	.9	.21	.03	93		544
	2	29	2	18.0					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
1.v	3 am	39	2	18.0	8.52	4.97	79	0-5	442
	4	42	2	.0					
	5	51	1	.0	10.99	.92	81		324
	6	53	1	.0					
	7	46	5	.0	11.70	5.03	83	0-1	288
	8	39	8	.0					
	9	30	9	.0	9.15	.07	82		324
	10	22	10	.1					
	11	12	10	.0	6.96	.04	79	0-6	442
	12 n	5	9	.0					
	1 pm	2	8	.0	5.12	.15	80		544
	2	11	8	.1					
	3	18	7	.2	.27	.39	99	0-3	544
27.v	5 pm	41	8	18.2	13.72	4.91	84	0	125
	6	36	2	.5					
	7	29	1	.8	12.27	.79	81		
	8	21	1	.5					
	9	16	2	17.0	10.57	.75	76	0	170
	10	17	3	16.6					
	11	22	5	.5	9.93	.89	77		
	12 m	29	2	.5					
28.v	1 am	39	4	.5	12.45	.76	77	0	170
	2	46	7	.5					
	3	55	9	.4	14.89	.75	79		
	4	62	9	.5					
	5	54	1	.5	16.09	.79	81	1	170
	6	46	0	.4					
	7	37	1	.4	13.48	.72	78		
	8	29	5	.4					
	9	20	8	.4	11.73	.70	73	0	170
	10	11	5	.5					
	11	5	2	.8	9.87	.58	73		
	12 n	11	2	17.0					
	1 pm	17	2	.5	.62	3.73	60	0	190
	2	25	2	.5					
	3	33	2	.7	11.97	4.92	81		
	4	41	1	.6					
	5	46	0	.3	14.00	5.00	84	0	170

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947			Sky						
25. vi	11 am	15		11.4	8.99	6.83	97	0	209
	12 n	23		.4					
	1 pm	30	1	.4	9.89	.68	96		209
	2	38	2	.6					
	3	45	1	.6	12.51	7.00	104	0	130
	4	48	2	.6					
	5	40	9	.6	13.06	6.86	102		108
	6	35	7	.6					
	7	28	7	.6	11.16	.96	101	0	140
	8	21	7	.6					
	9	17	9	.4	9.47	.85	98		209
	10	17	6	.4					
	11	23	9	.5	8.48	.98	99	0	209
	12 m	30	5	.5					
26. vi	1 am	36	2	.5	10.49	.83	99		150
	2	46	2	.5					
	3	54	1	.5	13.44	.64	99	0	83
	4	53	0	.5					
	5	45	1	.4	12.58	.72	99		108
	6	36	1	.4					
	7	31	1	.4	11.62	.85	100	0	140
	8	22	1	.3					
	9	17	1	.3	10.19	.70	96		140
	10	11	7	.4					
	11	11	1	.4	8.31	.68	94	0	188
23. vii	11 am	27	1	10.4	13.01	6.91	101	0	15
	12 n	33	1	.5					
	1 pm	42	6	.6	15.34	.53	98		
	2	45	6	.9					
	3	43	2	11.0	16.29	.53	100	0	5
	4	34	3	.0					
	5	27	3	.0	14.35	.92	100		
	6	18	1	10.9					
	7	12	1	.7	12.66	7.13	104	0	8
	8	10	1	.8					
	9	15	0	.8	10.81	6.50	93		
	10	24	0	.8					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
23. vii	11 pm	33	0	10.8	13.36	6.91	102	0	3
	12 m	42	0	.8					
24. vii	1 am	48	0	.8	15.94	.53	99	0	
	2	52	0	.8					
	3	49	0	.8	16.64	.37	98	0	0
	4	41	0	.7					
	5	33	0	.7	15.05	.75	101	0	
	6	24	0	.7					
	7	15	0	.7	13.33	.77	99	0	0
	8	8	0	.4					
	9	6	0	.4	11.51	.63	96		
	10	12	0	.5					
	11	19	0	.7	.75	.93	100	0	8
21. viii	11 am	30	9	13.1	15.51	5.83	92	6	3
	12 n	39	9	.2					
	1 pm	43	7	.4	17.16	.73	93		
	2	43	8	.7					
	3	36	3	.4	.37	.65	92	5	11
	4	28	8	.3					
	5	19	9	.2	15.96	.63	90		
	6	12	9	.1					
	7	4	10	.2	14.17	6.00	94	6	16
	8	4	10	.1					
	9	10	9	.0	13.61	5.97	92		
	10	18	7	.0					
	11	27	2	.0	15.19	6.04	95	3	13
	12 m	33	0	.0					
22. viii	1 am	39	0	.0	16.29	5.72	91		
	2	39		.0					
	3	33		.0	17.29	.67	91	14	11
	4	24		12.8					
	5	18		.7	15.67	.83	93		
	6	10		.7					
	7	3		.6	14.21	6.07	94	4	15
	8	4		.6					
	9	10		.8	13.55	5.97	92		
	10	18	7	.9					
	11	24	8	.9	14.93	.84	91	3	15

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1947			Sky						
23. ix	2 pm	39	2	19.5	16.51	5.60	101	2	18
	3	44	2	18.4					
	4	46	8	.5	17.58	.35	96		
	5	43	6	.9					
	6	38	6	.3	.09	.38	95	3	36
	7	33	8	.2					
	8	26	2	.2	16.35	.46	95		
	9	20	1	.2					
	10	15	3	.2	15.44	.77	100	5	15
	11	12	4	.2					
	12 m	12	3	.1	14.72	.76	99		
24. ix	1 am	16	3	.2					
	2	21	2	17.9	15.15	.56	96	3	30
	3	25	0	.9					
	4	30	0	.9	16.21	.44	95		
	5	32	1	.5					
	6	31	1	.6	.38	.25	91	2	19
	7	27	1	.7					
	8	23	2	.7	15.83	.53	95		
	9	19	2	.7					
	10	16	4	.9	.16	.66	97	3	32
	11	14	6	18.0					
	12 n	21	5	.0	.09	.84	101		
	1 pm	25	3	.1					
	2	30	1	.0	16.27	.49	96	2	32
16. x	2 pm	33	5	20.7	17.87	5.01	93	0	6
	3	23	1	.3					
	4	14	2	.5	16.41	.20	95		
	5	6	3	.6					
	6	8	2	.5	15.00	.51	99	8	3
	7	16	1	.5					
	8	24	1	.3	.96	.35	97		
	9	34	1	.0					
	10	43		.0	17.75	.00	92	0	0
	11	48		.0					
	12 m	44		.0	18.41	4.87	90		
17. x	1 am	37		.0					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
17. x	2 am	29		19.9	17.64	4.90	90	6	4
	3	18		.8					
	4	12		.8	15.61	5.10	91		
	5	6		.8					
	6	12	1	.8	.06	.12	77	6	5
	7	20	1	.9					
	8	29	2	.8	16.32	4.96	89		
	9	39	2	.6					
	10	49	2	.7	18.15	.81	88	8	19
	11	56	1	20.0					
	12 n	55	1	.0	.71	.86	90		
	1 pm	48	1	.0					
	2	42	2	.0	.44	.91	91	2	6
10. xi	2 pm	24	1	22.6	15.94	5.25	98	13	0
	3	30	1	.5					
	4	38	1	.5	16.17	4.34	81		
	5	46	1	.0					
	6	55	1	.3	17.83	.89	93	0	0
	7	64	8	.0					
	8	68	8	.0	16.51	.75	89		
	9	63	9	.0					
	10	54	9	.0	18.76			12	0
	11	46	9	.0					
	12 m	39	9	.0	15.81	5.10	95		
11. xi	1 am	33	9	.0					
	2	30	9	21.8	.50	4.58	85	0	0
	3	23	9	.6					
	4	32	9	.6	.60	.85	89		
	5	43	7	.6					
	6	54	2	.6	17.67	.49	85	14	0
	7	65	0	.5					
	8	71	3	.6	19.04	.28	82		
	9	72	3	.5					
	10	61	4	.5	.07	.27	81	0	0
	11	55	2	.5					
	12 n	48	3	22.0	18.31	.49	86		
	1 pm	45	7	.2					
	2		10	.4	17.03	5.00	95	0	0

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947			Sky						
15.xii	3 pm	40	10	21.6	0.46	2.76	43	23	951
	4	31	9	.8					
	5	24	9	.5	.42	3.10	49		
	6	19	7	.5					
	7	22	10	.5	.41	.24	51	40	641
	8	30	8	.4					
	9	37	10	.3	.41	.10	48		
	10	46	10	.3					
	11	51	10	.2	.45	.10	48	38	1449
16.xii	1 am	40		.2	.43	.23	50		
	2	35		.2					
	3	31		.1	.43	.17	49	39	1290
	4	26	10	.2					
	5	24	10	.0	.42	.26	51		
	6	26	10	.1					
	7	36	10	.2	.43	.17	49	47	1360
	8	42	10	.2					
	9	51	10	.3	.49	2.81	44		
	10	61	10	.4					
	11	68	10	.5	.59	3.04	48	43	872
	12 n	70	10	.6					
	1 pm	64	10	.5	1.27	.26	52		
	2	56	10	.5					
	3	49	9	.5	0.55	.10	49	47	842
1948									
20.i	3 pm	41	0	21.4	1.16	4.20	66	6	402
	4	40	1	.4					
	5	36	1	.2	0.98	.16	64		
	6	29	1	.0					
	7	21	1	20.8	.47	3.93	61	9	384
	8	14	0	.8					
	9	9	0	21.0	.33	.92	61		
	10	6	0	.1					
	11	10	0	.1	.29	.89	60	11	395
	12 m	15	0	.1					
21.i	1 am	23	0	.0	.41	.76	58		
	2	32	0	20.9					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
21.1	3 am	39	1	21.0	1.11	3.44	54	6	395
	4	45	3	.2					
	5	47	2	.4	2.25	4.57	73		
	6	40	1	.2					
	7	33	1	.0	1.27	3.92	61	9	400
	8	27	2	.0					
	9	21	1	20.8	0.66	.68	57		
	10	13	1	21.2					
	11	11	0	.4	.40	.64	57	11	395
	12 n	15	0	23.0					
	1 pm	22	0	.9	.46	.76	61		
	2	25	5	22.0					
	3	32	8	.1	.82	.96	63	6	388
9.11	11 am	52	5	30.7	11.88	4.50	92	5	25
	12 n	48	1	26.2					
	1 pm	39	1	.2	.34	.92	93		
	2	30	1	.5					
	3	21	1	.7	9.04	.97	93	6	65
	4	12		.5					
	5	3		27.0	7.20	.60	86		
	6	5		.0					
	7	9		26.8	6.34	.75	85	2	99
	8	18		.7					
	9	30		.6	8.49	.96	92		
	10	37	1	.3					
	11	41	1	.3	10.79	5.02	95	8	0
	12 m	36		.4					
10.11	1 am	30		.0	.14	4.85	90		
	2	21		.0					
	3	12		.2	7.83	.56	83	0	67
	4	6		.4					
	5	3		.3	5.81	.35	78		
	6	7	1	.2					
	7	15	1	.2	6.17	.28	77	14	108
	8	22	2	.3					
	9	33	1	.4	8.53	.40	81		
	10	43	0	.6					
	11	53	0	27.0	11.44	.66	89	14	17

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C	Water Temp. °C	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
10.iii	11 am	56	0	24.6	13.85	4.75	90	1	8
	12 n	49	1	25.4					
	1 pm	39	3	24.9	15.71	.74	92		
	2	30	9	25.1					
	3	21	8	.2	13.30	5.37	102	2	29
	4	17	4	.4					
	5	21	3	.3	10.47	.47	99		
	6	29	3	.3					
	7	38	9	.2	12.40	4.22	80	1	15
	8	45	9	.0					
	9	52	1	24.9	14.81	.95	95		
	10	56	1	.8					
11.iii	11	52	10	.7	15.27	5.33	103	0	5
	12 m	42	9	.6					
	1 am	33	10	.5	12.95	.03	94		
	2	24	10	.5					
	3	17	10	.6	11.24	4.89	90	0	7
	4	16	10	.5					
	5	23	10	.4	10.43	.84	88		
	6	30	10	.5					
	7	39	10	.3	12.50	.82	90	1	7
	8	50	10	.1					
	9	58	10	23.8	15.28	.57	85		
	10	63	10	.8					
	11	58	10	.8	.79	.60	87	0	18
14.iv	11 am	39	1	19.8	14.38	5.35	94	0	11
	12 n	44	1	.6					
	1 pm	49	1	.6	15.77	.25	94		
	2	45	1	.7					
	3	39	1	.7	.00	.40	95	1	10
	4	32	3	.9					
	5	26	5	20.0	13.20	.85	102		
	6	21	9	19.8					
	7	21	10	.6	11.71	.90	101	1	10
	8	27	10	.5					
	9	36	8	.5	13.44	.65	98		
	10	46	9	.3					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
14. iv	11 pm	56	9	18.8	15.89	5.28	93	2	4
	12 m	61	9	.8					
15. iv	1 am	69	9	.8	16.98	4.98	89		
	2	67	9	.6					
	3	58	1	.7	.68	5.03	89	2	3
	4	51	4	.5					
	5	41	6	.5	15.40	.07	88		
	6	33	4	.7					
	7	24	2	.8	13.41	.28	90	4	4
	8	18	2	.8					
	9	20	2	.7	12.05	.45	92		
	10	28	4	.7					
	11	36	2	.8	13.47	.35	92	5	4
12. v	12 n	50	8	17.2	4.77	4.37	66		
	1 pm	42	5	16.7					
	2	38	4	.8	3.88	.23	63	3	537
	3	31	1	.9					
	4	24	0	.7	2.05	3.96	58		
	5	18	0	.8					
	6	18	0	.8	1.21	.93	57	4	747
	7	27	0	.6					
	8	35	0	.7	3.37	4.00	59	5	732
	9	45	1	.7					
	10	56	0	.6	4.05	.61	68		
	11	65	0	.6					
	12 m	69		.5	7.60	.72	73	4	557
13. v	1 am	65		.5					
	2	57		.5	.14	.71	72		
	3	48		.4					
	4	37	0	.3	4.27	.40	65	6	765
	5	27	0	.4					
	6	13	0	.1	2.03	.03	58		
	7	10	5	.2					
	8	13	7	.1	1.21	3.92	56	4	809
	9	21	8	.1					
	10	30	6	.2	2.07	4.01	58		
	11	39	2	.3					
	12 n	43	1	.4	3.52	.26	63	2	743

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
14. vii	11 am	21	1	9.9	4.06	6.64	86	2	387
	12 n	27	6	.9					
	1 pm	36	2	10.0	6.56	7.57	101		
	2	45	1	.2					
	3	51	1	.3	9.13	.88	109	1	203
	4	52	1	.3					
	5	46	0	.5	.92	.97	112		
	6	39	0	.1					
	7	31	0	.0	7.32	.51	101	1	252
	8	22	0	.0					
	9	16	0	9.9	5.52	.28	96		
	10	12	0	.6					
15. vii	11	16	0	.6	4.09	.20	93	1	346
	12 m	22	0	.5					
	1 am	29	1	.5	5.49	.12	93		
	2	37	0	.7					
	3	42	1	.9	7.63	.48	101	1	240
	4	42	1	.8					
	5	37	1	.8	.94	.40	100		
	6	30	1	.5					
	7	21	1	.4	6.03	.15	94	1	277
	8	15	1	.5					
	9	10	2	.4	4.90	.06	92		
	10	6	6	.4					
11. viii	11	9	1	.5	3.67	6.60	85	1	335
	1 pm	40	4	13.5	13.03	6.80	105	0	52
	2	47	2	.9					
	3	49	2	14.0	.82	.72	106		
	4	42	1	.0					
	5	36	3	13.8	.16	.67	104	0	20
	6	28	4	.6					
	7	20	6	.5	10.85	.85	103		
	8	12	1	.5					
	9	9	0	.4	8.89	7.02	103	0	122
	10	13	0	.3					
	11	19	0	.3	.64	6.91	101		
	12 m	26	0	.2					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
12.viii	1 am	33	0	13.2	10.46	6.84	102	0	93
	2	38	0	.3					
	3	39	0	.3	12.25	.53	100		
	4	35	0	.3					
	5	29	0	.2	11.59	.63	100	0	107
	6	21	1	.9					
	7	14		.0	9.62	.77	100		
	8	9		14.9					
	9	6	0	13.0	8.26	.75	98	2	153
	10	12	1	.0					
	11	17	1	.2	.20	.82	99		
	12 n	24	1	.5					
	1 pm	33	1	.5	10.37	7.02	106	2	74
7.ix	1 pm	58	0	15.2	16.90	5.93	99	0	16
	2	57	0	.4					
	3	51	1	.5	.86	.88	99		
	4	40	3	.3					
	5	31	2	.2	15.10	.85	96	1	33
	6	20	5	.2					
	7	10	0	.3	12.59	6.06	97		
	8	9	0	.3					
	9	18	0	.2	11.86	.06	96	0	108
	10	25	0	.1					
	11	33	0	.1	13.59	5.92	95		
	12 m	41	4	.1					
8.ix	1 am	45	3	.1	15.87	.98	99	2	14
	2	43	2	.1					
	3	38	0	.0	.76	.77	95		
	4	31	4	.0					
	5	21	10	.0	13.38	.80	93	3	56
	6	16	10	.0					
	7	9	10	14.9	12.02	.74	90		
	8	10	10	.9					
	9	21	10	.9	11.93	.80	93	0	117
	10	27	10	.9					
	11	34	10	.9	13.80	.82	93		
	12 n	42	4	15.0					
	1 pm	51	9	.1	15.47	.82	95	24	0

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
6.x	11 am	54	4	17.5	17.19	5.00	87	3	24
	12 n	60	3	.8					
	1 pm	54	2	.9	.74	.18	92		
	2	47	1	.9					
	3	37	1	18.0	16.90	.03	88	2	30
	4	27	1	.1					
	5	18	0	.3	14.78	.61	97		
	6	9	0	.5					
	7	4	0	.5	8.81	.05	82	1	155
	8	12	0	.5					
	9	21	0	.5	13.21	4.88	83		
7.x	10	31	0	.3					
	11	39	0	.1	15.47	.11	71	3	59
	12 m	45	0	.1					
	1 am	42	0	.0	16.99	5.15	91		
	2	36	0	.0					
	3	27		17.9	15.65	3.66	63	3	61
	4	21		.9					
	5	10		.9	13.85	4.87	83		
	6	10		.8					
	7	15		.8	12.94	.84	81	2	158
	8	22		.9					
10.xi	9	30	0	.9	14.46	.84	82		
	10	39	0	.9					
	11	48	0	18.0	16.61	.97	87	3	45
	11 am	31	8	21.8	15.13	4.64	85	0	84
	12 n	35	6	22.0					
	1 pm	42	4	.0	.93	.64	86		
	2	48	4	.3					
	3	54	2	.2	16.97	.71	89	0	41
	4	57	2	.2					
	5	58	1	.0	17.56	.69	89		
	6	55	2	.0					
	7	48	1	21.8	.00	.72	88	4	42
	8	41	1	.8					
	9	34	0	.8	15.82	.51	84		
	10	27	0	.9					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948			Sky						
10. xi	11 pm	21	0	21.9	14.72	4.40	81	0	96
	12 m	15	0	.5					
11. xi	1 am	22	0	.5	.76				
	2	29	0	.5					
	3	36	0	.4	15.52	.39	80	0	66
	4	42		.4					
	5	48		.3	16.53	.48	83		
	6	48		.1					
	7	45		.3	.74	3.27	61	2	44
	8	41		.4					
	9	24	1	.6	15.67	.54	65		
	10	30	0	.6					
	11	39	0	.6	14.97	.66	67	1	74
9. xii	11 am	24	1	24.5	17.35	4.65	92	4	22
	12 n	30	1	25.5					
	1 pm	36	1	24.5	18.53	.74	94		
	2	42	1	.5					
	3	45	0	.5	19.26	.79	96	3	7
	4	45	0	.6					
	5	41	0	.4	.30	.71	95		
	6	37	0	.3					
	7	30	2	.2	18.65	.68	93	3	13
	8	22	3	.3					
	9	16	7	.3	17.65	.87	96		
	10	11	9	.3					
	11	10	8	.2	16.83	.74	92	3	38
	12 m	15	8	.0					
10. xii	1 am	21	4	.1	17.25	.71	92		
	2	30		.1					
	3	34	2	.0	18.44	.52	89		24
	4	41	10	23.9					
	5	40	2	.8	19.08	.71	93		
	6	37	8	.9					
	7	30	2	.9	18.58	.31	85	5	7
	8	26	0	24.0					
	9	19	0	.3	17.71	.32	85		
	10	18	0	.5					
	11	18	0	25.1	.12	.58	91	5	23

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
5.1	3.30 pm	54	0	25.4	19.00	4.12	84	0	25
	4.30	48	0	27.3					
	5.30	39	0	28.4		.12			
	6.30	30	0	26.2					
	7.30	24	0	.0	17.50	3.39	68	0	46
	8.30	27	0	22.0					
	9.30	30	0	19.9		.70			
	10.30	36	0	17.8					
	11.30	44	0	.6	18.09	.64	64	0	36
6.1	12.30 am	50	0	.8					
	1.30	57	0	25.3		.67			
	2.30	56	0	.2					
	3.30	51	0	.2	19.00	4.15	84	1	13
	4.30	46	0	.2					
	5.30	40	0	.2		3.75			
	6.30	34	0	.4					
	7.30	33	0	.4	17.68	.44	69	0	43
	8.30	34	1	.8					
	9.30	39	1	.4		.67			
	10.30	48	3	.3					
	11.30	54	2	.3	18.61	.98	81	0	17
	12.30 pm	63	2	.5					
	1.30	66	2	.8		4.05			
	2.30	64	4	26.1					
	3.30	60	8	25.8	19.22	.15	85	0	2
9.11	12 n	18	7	28.5	6.80	4.19	78	5	640
	1 pm	19	6	.5					
	2	24	9	.7	.22	.33	81		
	3	28	9	.5					
	4	34	9	.2	7.45	.21	79	8	526
	5	39	9	.3					
	6	42	9	.4	8.45	.34	83		
	7	42	8	.5					
	8	37	7	.5	.69	.28	82	5	442
	9	31	5	.1					
	10	26	5	.1	7.39	.09	77		

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
9.ii	11 pm	21	1	28.0					
	12 m	19	1	.0	6.31	3.86	71	3	606
10.ii	1 am	23	2	.0					
	2	27	2	27.5	.41	.74	69		
	3	36	2	.9					
	4	45	10	28.0	8.77	.85	73	24	479
	5	51	10	27.9					
	6	57	10	.5	11.36	.65	71		
	7	60	10	.4					
	8	57	10	.7	.41	.67	71	6	261
	9	48	9	.9					
	10	42	7	28.0	9.83	.77	72		
	11	32	1	.0					
	12 n	24	1	.1	8.05	.91	74	6	503
10.iii	3 pm	22	8	24.8	0.56	3.82	63	5	216
	4	29	9	.8					
	5	35	10	25.0	.38	.63	60		
	6	37	10	24.9					
	7	34	10	25.0	1.89	.66	62	11	508
	8	29	10	24.8					
	9	24	10	.6	.08	.64	60		
	10	18	10	.3					
	11	14	10	.2	0.36	.90	64	9	118
	12 m	13	10	.1					
11.iii	1 am	18	10	.0	.31	4.09	67		
	2	24	10	.1					
	3	32	10	.4	1.08	3.75	62	11	255
	4	42	10	.6					
	5	49	10	.6	2.61	.64	61		
	6	54	10	.5					
	7	53	10	.6	4.28	.80	65	8	560
	8	47	10	.5					
	9	40	10	.3	2.36	.80	64		
	10	29	10	.1					
	11	21	10	23.9	0.67	.96	65	15	222
	12 n	13	10	.8					
	1 pm	6	10	.4	.27	4.17	67		
	2	7	10	.3					
	3	13	10	.3	.26	.09	66	4	135

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1949			Sky						
14.v	10 am	48	1	14.8	15.89	5.68	93	5	6
	11	40	1	15.0					
	12 n	33	3-4	.2	13.92	.58	90		
	1 pm	24	3-4	.3					
	2	15	4	.4	11.85	.29	84	0	36
	3	8	5	.5					
	4	9	5	.6	10.15	.76	90		
	5	20	3-4	.5					
	6	27	2	.4	11.63	.87	93	3	36
	7	42	9	.3					
	8	54	9	.3	15.45	.67	93		
	9	63	9	.3					
	10	67	9	.2	16.74	.43	91	3	6
	11	60	5	.2					
15.v	12 m	51	4	.2	.26	.38	89		
	1 am	40	2	.2					
	2	31	3	.2	14.37	.17	84	3	10
	3	19	4	.2					
	4	11	2	.2	11.71	.85	92		
	5	5	1	.2					
	6	14	1	.2	10.32	.75	89	5	57
	7	22	1	.1					
	8	33	3	.0	12.28	.76	91		
	9	42	7	.0					
9.vi	10	51	5	.0	15.02	.55	90	1	5
	3 pm	24	5	12.7	0.32	5.02	67	3	675
	4	31	7	.6					
	5	41	9	.6	.32	.82	77		
	6	53	10	.8					
	7	64	10	13.1	.60	.66	76	6	994
	8	72	7	.1					
	9	73	9	.2	3.16	.75	79		
	10	65	2	.2					
	11	56		.1	2.11	.54	75	9	1145
10.vi	12 m	45		12.8					
	1 am	34		.6	0.56	.83	78		
	2	24	2	.5					

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
10. vi	3 am	17	8	12.4	0.29	5.55	73	8	651
	4	18	10	.4					
	5	27	7	.4	.27	.68	75		
	6	35	3	.4					
	7	44	3	.4	.42	.89	78	14	771
	8	53	4	.6					
	9	57	2	.8	1.61	.80	78		
	10	53	6	.8					
	11	46	9	.8	0.39	.32	71	6	946
	12 n	39	10	.7					
	1 pm	30	9	.6	.45	.53	74		
	2	23	10	.6					
	3	21	10	.6	.34	.44	72	7	693
21. vii	1 pm	31	2	10.9	4.65	7.08	95	23	430
	2	37	1	.9					
	3	46	2	11.0	6.49	.10	97		
	4	54	3	.0					
	5	60		10.9	8.77	.15	100	4	206
	6	63		.8					
	7	61		.9	9.78	.12	101		
	8	54		.8					
	9	47		.8	8.11	.06	98	4	224
	10	39		.8					
	11	30		.7	6.60	6.96	95		
	12 m	24		.7					
22. vii	1 am	22		.6	5.48	7.05	95	12	386
	2	27		.5					
	3	32		.5	4.94	6.83	91		
	4	38		.5					
	5	44	2	.5	6.61	7.04	95	9	336
	6	47	3	.5					
	7	45	3	.5	7.48	6.78	93		
	8	42	1	.5					
	9	34	1	.5	6.75	.70	91	9	332
	10	28	2	.5					
	11	23	0	.6	5.38	.85	92		
	12 n	21	1	.8					
	1 pm	25	3	.9	4.47	7.00	.93	7	468

Location: GEORGES RIVER - PICNIC POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949			Sky						
21. ix	11 am	27	0	17.1	6.90	5.68	88	1	553
	12 n	19	0	.2					
	1 pm	9	0	.5	5.19	.88	90		
	2	6	0	.5					
	3	4	0	18.3	3.59	6.04	92	4	600
	4	16	0	17.8					
	5	26	0	.5	6.33	5.73	89		
	6	38	0	.6					
	7	50	0	.8	9.05	.57	89	2	478
	8	59	0	.6					
	9	62	0	.5	11.45	6.14	101		
22. ix	10	54	0	.5					
	11	46	0	.5	9.30			3	447
	12 m	36	0	.6					
	1 am	18	0	.4	7.00	5.54	86		
	2	3	0	.1					
	3	3	0	.1	4.22	.57	99	2	695
	4	1	0	.2					
	5	12	0	.0	3.91	.82	102		
	6	24	0	.0					
	7	36	0	.0	6.80	.33	82	4	605
	8	45	0	.2					
	9	51	0	.4	3.22	.29	79		
	10	49	0	.4					
	11	39	1	.5	10.28	.54	90	2	380

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
13. vii	9 am	46	14.5	14.1	19.43	4.97	84	3	8
	10	38	.6	13.8		5.68			
	11	29	16.0	.9	.32	6.20	104	0	3
	12 n	20	15.4	14.4		.85			
	1 pm	16	.3	.6	.39	7.09	120	0	3
	2	14	14.8	.6		.05			
	3	18	15.0	15.0	.48	6.25	107	3	3
	4	28	.3	.0		.35			
	5	40	16.1	.0	.49	5.87	100	3	7
	6	52	13.1	14.9		.69			
	7	64	11.7	15.1	.53	.63	99	0	7
	8	68	.1	.2		.61			
	9	67	10.6	.1	.57	.49	94	3	3
	10	57	.0	.0		.35			
	11	46	9.4	14.3	.46	.43	92	3	0
	12 m	30	.6	.0		.47			
14. vii	1 am	22	.9	13.7	.41	.42	91	0	0
	2	14	10.0	.3		.10			
	3	10	9.6	.2	.43	4.61	77	0	0
	4	12	.4	.6		6.10			
	5	24	.2	.9	.39	5.39	91	0	2
	6	32	7.8	.9		.39			
	7	40	.2	14.4	.46	.48	93	0	7
	8	46	.8	.3		.33			
	9	50	8.7	.5	.48	.58	95	0	3
10. viii	9 am	37	11.7	13.7	19.60	5.23	88	1	3
	10	27	13.9	.2		6.08			
	11	20	14.8	.6	.55	.70	112	0	17
	12 n	15	.3	.7		.75			
	1 pm	15	15.6	.9	.55	.81	114	0	17
	2	19	17.0	14.2		.18			
	3	27	16.8	.2	.57	.09	103	0	7
	4	36	.4	.3		5.37			
	5		15.8	.4	.58	.80	99	0	7
	6	57	14.6	.7		.76			
	7	62	12.9	.5	.60	.50	94	1	10
	8	60	.1	.7		.49			

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
10. viii	9 pm	51	11.1	14.0	19.59	5.20	88	0	13
	10	42	10.2	13.6		.63			
	11	31	.0	.4	.56	.61	94	0	17
	12 m	20	9.7	.2		.53			
11. viii	1 am	15	8.9	.1	.57	.55	92	0	10
	2	18	.5	.4		.55			
	3	21	.3	.7	.61	.20	87	0	7
	4	27	.9	.6		.26			
	5	42	9.2	.8	.53	.33	90	0	3
	6	46	.4	14.5		.32			
	7	48	10.0	.4	.60	.80	99	1	13
	8	49	.6	.3		.15			
	9	46	11.1	.2	.61	.59	95	0	7
7. ix	9 am	25	12.5	13.7	19.65	5.80	97	3	8
	10	17	15.0	14.6		6.70			
	11	14	16.1	15.1	.74	.90	119	2	8
	12 n	14	17.1	.5		7.20			
	1 pm	18	19.6	.2	.69	5.86	101	2	8
	2	25	.5	.2		6.43			
	3	33	17.8	.2	.72	.41	111	0	0
	4	44	.3	.2		.22			
	5	51	18.2	.2	.72	5.99	100	2	11
	6	54	15.6	.1		.97			
	7	54	14.0	.0	.73	.90	102	3	8
	8	46	.0	14.9		.74			
8. ix	9	36	12.5	15.4	.81	.66	98	1	0
	10	24	.4	.0		.25			
	11	17	11.7	14.8	.73	.22	90	2	0
	12 m	12	10.3	.5		.29			
	1 am	8	9.2	.5	.77	.32	91	3	4
	2		.7	.5		.45			
	3	24	.4	.7	.66	.36	92	2	4
	4	31	.4	.9		.30			
	5	41	.5	.6	.64	.64	116	3	0
	6	44	.7	.8		.48			
	7	45	8.3	.7	.68	.49	94	3	8
	8	39	9.4	.4		.31			
	9	33	11.1	.3	.67	.70	97	2	8

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
8. ix	10 am	23	10.0	14.9		6.34			
	11	17	12.0	15.5	19.75	.88	119	2	4
	12 n	15	14.4	16.1		7.19			
	1 pm	16	15.0	.0	.77	6.98	122	2	0
	2	19	.2	15.7		.58			
	3	29	.4	.7	.71	.46	113	2	
	4	39	.7	.6		.35			
6. x	10 am	24	13.4	15.9	19.67	5.01	87	0	11
	11	19	.6	.5		6.12			
	12 n	15	.7	16.2	.67	.11	107	0	0
	1 pm	17	14.0	17.5		.48			
	2	23	13.9	.3	.68	.25	112	0	11
	3	30	14.0	.1		5.70			
	4	39	.4	.0	.64	.96	106	0	11
	5	48	.4	16.4		6.13			
	6	57	.4	.0	.66	.25	109	0	3
	7	51	.2	.0		5.65			
	8	48	.0	.0	.63	.80	101	0	3
	9	39	.0	.2		.57			
	10	30	13.7	.5	.65	.16	91	0	8
	11	21	.2	.5	.65	4.92	87		
	12 m	12	12.2	.6	.69	.94	87	0	6
7. x	1 am	6	11.8	.7		.60			
	2	12	.8	.7	.69	.90	173	0	3
	3	21	.4	.5		.92			
	4	30	.5	.5	.64	.78	84	0	0
	5	36	.3	.1		5.10			
	6	45	.2	.0	.64	.07	87	0	3
	7	46	12.2	15.8		.12			
	8	44	13.2	.8	.64	.02	88	0	8
	9	37	14.6	16.0		4.78			
	10	29	15.7	.3	.66	.88	86	0	0
	11	20	.2	17.1		5.34			
	12 n	14	.8	.5	.68	.55	100	0	6
	1 pm	12	.8	.6		6.15			
	2	18	.4	.4	.66			0	13
	3	23	.9	.5	.65			0	6

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
30. x	9 am	31	20.9	19.8	19.35	5.08	95	0	5
	10	39	23.1	.8					
	11	45	.8	.4	.57	.52	102	0	5
	12 n	52	.6	.1					
	1 pm	57	24.2	.2	.61	.75	106	0	0
	2	59	.5	.6					
	3	57	.4	.7	.59	.90	110	0	0
	4	50	21.7	21.1					
	5	40	23.9	.6	.52	6.70	128	0	0
	6	33	22.8						
	7	27	.2		.32	5.66		0	10
	8	21	.2	.0					
	9	27	21.7	.0	.21	4.99	95	0	0
	10	33	.7	.0					
	11	36	20.6	.0	.21	5.00	95	0	0
	12 m	39	.6	20.7					
31. x	1 am	45	.0	.5	.44	3.75	71	0	16
	2	50	19.4	.3					
	3	50	18.7	.1	.39	5.11	96	0	0
	4	48	.3	.0					
	5	43	.2	.2	.51	4.70	88	0	0
	6	39	.3	.2					
	7	35	20.1	.0	.36	3.39	63	0	0
	8	31	21.7	.1					
	9	31	22.9	.3	.31	.93	74	0	0
	10	35	26.1	.7					
	11	40	28.0	.2	.47	5.29	99	0	0
	12 n	47	30.6	19.7					
	1 pm	53	.5	20.3	.52	.36	101		
	2	55	23.6	.2					
	3	56	25.7	.6	.54	.70	108		
	4	55	21.7	.4					
	5	47	19.4	.4					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
2. xi	9 am	23	18.9	19.4	19.08	5.03	93	0	0
	10	22	.9	.3					
	11	25	.7	.4	.19	4.95	91	0	0
	12 n	27	.9	18.5					
	1 pm	36	19.5	.7	.40	5.69	104	0	0
	2	41	20.2	.7					
	3	45	.0	.8	.52	6.02	110	0	0
	4	47	19.5	19.3					
	5	45	.8	.4	.52	.45	120	0	0
	6	41	.3	.8					
	7	31	.2	20.0	.52	7.00	130	0	0
	8	24	18.6	19.8					
	9	18	.3	20.0	.26	5.65	105	0	3
	10	15	.3	19.8					
	11	13	.3	.6	.08	25	97	0	0
	12 m	15	17.2	.6					
3. xi	1 am	22	16.7	.5	.13	4.91	91	0	0
	2	30	.8	.0					
	3	36	17.2	.2	.29	5.03	93	2	0
	4	41	16.9	.0					
	5	44	17.7	18.8	.36	4.98	91	2	0
	6	42	.5	.7					
	7	36	.8	.4	.35	.70	86	2	3
	8	31	18.3	.4					
	9	24	.3	.9	.35	5.60	103	2	0
	10	21	.1	19.2					
	11	21	.9	.5	.29	6.01	111	0	0
	12 n	24	19.5	20.0					
	1 pm	27	.4	19.8	.29	5.88	109	0	0
	2	42	18.4	.6					
	3	44	17.6	.4	.33	.62	104	0	3
	4	53	.8	.2					
	5	51	.3	.7	.28	.65	105	0	0

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1942									
29.xii	9 am	24	19.8	20.1	19.58	4.78	90	2	12
	10	30	20.8	.0					
	11	45	.6	19.8	.58	.37	82	2	3
	12 n	47	.7	.4					
	1 pm	52	.9	.5	.64	5.43	101	1	5
	2	51	.9	.6					
	3	45	21.1	20.3	.62	4.43	83	1	5
	4	39	.7	21.2					
	5	27	.6	22.2	.61	6.00	116	0	3
	6	19	.1	.6					
	7	18	20.9	.3	.50	5.38	104	0	1
	8	12	.4	.2					
	9	13	.1	.1	.47	4.84	94	0	3
	10	24	.0	20.7					
30.xii	11	30	.0	.6	.60	.80	91	1	0
	12 m	36	.0	.0					
	1 am	42	.0	19.8	.62	.90	91	1	3
	2	44	.1	.9					
	3	43	.1	.9	.65	.65	87	1	12
	4	39	.1	.9					
	5	33	.1	20.0	.69	3.93	74	1	3
	6	27	.4	.7					
	7	22	.7	21.3	.53	4.36	83	0	3
	8	24	21.1	23.2					
	9	23	.1	21.5	.52	.87	93	3	0
	10	30	.7	.0	.65				
	11	36	.1	20.7	.65	.33	82	0	12
	12 n	43	.4	.4					
	1 pm	51	.4	.2	.68	5.09	95	0	14
	2	51	.8	.4					
	3	51	.4	.5	.61	.40	102		
	4	46	.7	21.0					
	5	36	20.2	.5					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
25.1	9 am	45	22.1	21.2	19.55	4.77	91	0	0
	10	57	.8	.1					
	11	63	24.6	.1	.60	5.31	101	0	0
	12 n	64	26.1	.2					
	1 pm	54	25.3	22.7	.59	6.45	126	0	6
	2	47	26.1	24.2					
	3	25	.7	.9	.61	.46	131	0	0
	4	19	28.2	.3					
	5	15	.9	.3	.60	.42	129	0	0
	6	9	29.4	.1					
	7	13	28.2	23.3	.60	5.20	103	0	0
	8	19	26.7	.5					
	9	33	24.4	.2	.62	.03	99	0	6
	10	38	22.8	22.2					
	11	45	.0	21.5	.63	.08	97	0	6
26.1	12 m	51	20.9	.8					
	1 am	44	.5	.9	.61	4.87	94	0	8
	2	36	.2	22.4					
	3	29	19.9	.4	.62	3.33	65	0	0
	4	21	21.1	.1					
	5	16	20.8	.0	.64	4.19	81	1	0
	6	14	.6	21.9					
	7	16	21.1	22.0	.61	.34	84	0	0
	8	23	.7	.0					
	9	35	.6	.0	.60	.72	91	1	6
	10	45	.8	.0					
	11	53	.5	21.5	.60	5.54	106	0	0
	12 n	57	22.2	.6					
	1 pm	57	21.7	22.3	.60	.47	106	0	8
	2	48	22.2	23.7					
	3	37	.2	24.9	.61	6.88	140		
	4	25	.2	.0					
	5	15	23.3	23.8					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
22.11	9 am	55	21.1	21.0	19.80	4.45	85	1	6
	10	60	22.0	20.8					
	11	63	19.4	21.0	.74	5.26	100	0	8
	12 n	56	20.3	.2					
	1 pm	45	21.0	.8	.84	6.15	119	0	3
	2	33	20.6	22.7					
	3	19	19.3	23.2	.86	.50	128	0	0
	4	12	.9	.4					
	5	10	.3	.0	.86	.14	121	0	0
	6	11	20.1	22.8					
	7	21	19.2	.5	.81			0	0
	8	42	18.9	.5					
	9	48	.6	21.5	.85			0	0
	10	51	.3	.5					
	11	53	.3	.3	.81	4.10	78	0	8
23.11	12 m	51	17.9	.0					
	1 am	42	16.7	20.7	.81	.50	85	0	0
	2	33	.0	.7					
	3	21	15.6	21.1	.83	.45	85	0	0
	4	15	.4	.1					
	5	12	16.0	.2	.83	.62	88	0	3
	6	17	.9	.4					
	7	25	.7	.3	.81	.50	86	1	0
	8	36	18.2	.2					
	9	48	.3	20.9	.81	.72	90	0	3
	10	58	.2	.9					
	11	63	.1	.8	.82	5.02	95	0	8
	12 n	60	.8	21.1					
	1 pm	52	.4	.6	.81	6.29	121	0	0
	2	36	19.2	22.3					
	3	24	18.8	.9		.82		0	0
	4	15	19.2	23.0					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (In.)	Air Temp. °C	Water Temp. °C	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
17.iii	12 n	18	31.4	24.8	19.86	6.76	138	5	6
	1 pm	17	25.2	.8					
	2	19	22.8	.8	.85	5.94	121	4	22
	3	24	23.9	.5					
	4	31	22.8	25.5	.85	.38	111	3	9
	5	38	.1	23.7					
	6	41	.3	.0	.79	4.87	96	5	22
	7	45	21.7	22.6					
	8	36	.1	.5	.77	.62	90	4	9
	9	33	.1	23.0					
	10	27	.1	22.0	.82			5	6
	11	24	.1	.0					
	12 m	21	20.8	.3	.85	3.57	70	5	3
18.iii	1 am	18	.5	.5					
	2	27	.6	21.7	.85	4.17	81	4	22
	3	30	21.1	.7					
	4	42	20.0	.6	.86	.60	89	7	9
	5	45	19.4	20.0					
	6	57	18.8	21.0	.80			6	6
	7	54	19.4	.0					
	8	51	.4	.0	.78				
	9	42	.8	.0					
	10	32	20.0	20.1	.87			6	6
	11	22	.6	22.0					
	12 n	15	.6	21.5	.94	5.32	103	9	6
19.iv	10 am	39	18.6	18.4	19.86			5	6
	11	27	19.4	.8					
	12 n	18	20.0	19.4	.86			5	3
	1 pm	15	.8	.9					
	2	12	21.7	.9	.87			4	0
	3	19	.7	.6					
	4	31	.1	.6	.86			3	0
	5	42	20.0	.6					
	6	54	18.3	.3	.74			5	0
	7	63	17.6	.1					
	8	65	.2	.1	.75			4	0
	9	61	16.7	18.6					
	10	50	15.3	.6	.82			5	0
	11	37	13.2	.0					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in)	Air Temp. °C	Water Temp. °C	Cl. ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
19.1v	12 m	24	13.6	18.0	19.81			4	0
20.1v	1 am	21	15.0	.2					
	2	15	13.3	.4	.84			4	0
	3	21	12.8	19.0				4	3
	4	33	.8	18.8	.75			4	0
	5	45	13.9	.7				4	3
	6	54	.3	.0	.74			4	0
	7	63	14.4	.8				7	3
	8	67	15.3	.8	.80			4	3
	9	66	17.8	.7					
	10	57	20.3	.6	.79				
	11	44	21.1	.5					
	12 n	33	.7						
	1 pm	24	.8	19.3					
	2	21	20.7	.3					
31.v	9 am	35	12.8	15.5	17.06	4.99	84	3	31
	10	26	13.9	.7					
	11	18	14.5	16.2	15.98	5.70	96	3	31
	12 n	13	16.1	.6					
	1 pm	15	17.9	.8	.11	.77	97	0	42
	2	21	.1	17.5					
	3	33	.0	.7	18.10	.58	99	0	16
	4	42	16.5	.6					
	5	54	15.5	.9	.56	.30	94	2	16
	6	60	.3	18.0					
	7	64	.0	17.9	.92	.08	91	3	19
	8	57	.0	.6					
	9	48	14.1	.5	17.64	.11	90	3	22
	10	39	13.3	.0					
	11	30	12.7	16.5	16.61	.58	95	3	27
	12 m	21	.2	.7					
1.vi	1 am	15	.2	.6	15.54	.74	97	2	31
	2	18	11.7	.6					
	3	24	12.2	17.1	17.36	.24	91	3	33
	4	31	.2	.1					
	5	41	11.7	18.0	18.46	.09	91	3	16
	6	48	.6	.1					
	7	48	.6	.3	.75	.10	92	2	16
	8	51	.4	17.6					
	9	42	12.1	18.2	.10	4.93	88	0	19

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
28. vi	9 am	21	8.7	12.4	19.27	5.86	96	0	8
	10	12	10.9	.6					
	11	18	.1	.8	.28	6.31	104	1	5
	12 n	12	.6	13.1					
	1 pm	25	14.2	14.0	.44	.10	103	1	14
	2	30	13.9	13.8					
	3	44	14.2	.7	.41	.15	103	2	8
	4	54	.7	14.0					
	5	58	13.3	.2	.55	5.41	92	1	8
	6	54	.3	.3					
	7	54	12.8	.3	.55	.90	100	2	8
	8	45	11.7	13.8					
	9	35	.3	.1	.37	.69	94	0	5
	10	27	.5	12.7					
	11	21	.7	.7	.28	.78	95	0	3
	12 m	18	.6	13.0					
29. vi	1 am	18	.7	12.9	.28	.78	95	1	5
	2	24	.7	13.5					
	3	30	.7	.7	.30	.00	84	2	14
	4	36	.4	.5					
	5	42	.1	.5	.38	.76	96	3	14
	6	46	.1	.8					
	7	45	.1	.5	.36	.74	96	2	14
	8	38	.7	.2					
	9	29	12.5	12.7	.36	.56	91	1	6
	10	19	13.9	.9					
	11	12	15.0	13.2	.33	6.65	110	0	0
	12 n	12	14.6	.4					
27. viii	9 am	30			16.80	5.60		1	25
	10	23		13.5					
	11	17		14.0	15.21	6.09	98		
	12 n	15		.0					
	1 pm	21		.5	16.05	.34	104	4	25
	2	27		.5					
	3	37		.6	19.13	.17	105		
	4	42		.6					
	5	53		.5	.55	5.85	99	5	20
	6	56		.6					
	7	56		.5	.55	.67	96		
	8	48		.5					

Location: PORT HACKING - C.S.I.R.O. JETTY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1943									
27. viii	9 pm	38		14.5	18.65	5.73	97	3	20
	10	27		.4					
	11	18		13.5	16.52	.90	95		
	12 m	14		.3					
28. viii	1 am	11		.0	15.90	.90	94	3	30
	2	12		12.8					
	3	24		14.4	19.09	.51	93		
	4	29		.5					
	5	28		.5	.60	.16	88	5	20
	6	45		.5					
	7	43		.4	18.51	.40	91		
	8	41		13.6					
1945									
17. viii	12 n		18.9	15.4	19.28	5.85	101	11-13	19
	1 pm	38	.9	.8					
	2	45	20.5	.8	.48	.44	95	15	56
	3	48	.8	.8					
	4	46	21.1	16.5	.50	.80	102	11-5	39
	5	39	19.7	.4					
	6	34	18.0	.0	.44	6.40	112	11	23
	7	27	16.1	15.8					
	8	20	15.6	.3	.28	5.69	98	12-13	15
	9	18	14.9	14.9					
	10	17	13.9	.6	.14	.65	96	9	22
	11	18	.3	.6					
	12 m	22	12.5	.7	.19	4.08	69	8-5	19
18. viii	1 am	27	.4	15.0					
	2	33	.5	.1	.32	5.44	93	20	26
	3	35	13.0	.1					
	4	34	12.8	14.5	.27			11-10	26
	5	33	.8	.2					
	6	32	11.7	.3	.32	.18	88	2	23
	7	24	.1	.2					
	8	17	.7	13.5	.21	4.54	76	2-10	23
	9	16	12.8	14.0					
	10	18	16.3	.6	.17	5.65	96	20	22
	11	21	17.8	.9					
	12 n	28	.2	.9	.23	.19	89	2-23	19

Location: CLYDE RIVER NO. 6 - NELLIGEN

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
6. viii	12 n	51	1	11.7	11.65	7.00	103	0	0
	1 pm	39	1	.6					
	2	28	2	.9	10.74	.10	104		
	3	21	4	12.0					
	4	18	5	11.9	.14	.28	106	1	0
	5	25	4	.8					
	6	39	2	.6	.88	.19	105		
	7	52	0	.7					
	8	68	0	.9	12.24	.04	105	2	0
	9	80	0	12.0					
	10	87	0	.0	13.31	6.77	102		
	11	81	0	.0					
	12 m	71	0	.0	12.76	.91	104	3	0
7. viii	1 am	57	0	11.8					
	2	44	0	.8	11.35	.99	103		
	3	30	2	.5					
	4	21	2	.4	10.52	.98	101	6	0
	5	3	1	.4					
	6	9	2	.4	.43	.99	101		
	7	30	8	.4					
	8	46	9	.6	.14	.94	100	3	0
	9	57	8	.6					
	10	66	10	10.7	12.10	.82	99		
	11	70	9	11.8					
	12 n	65	9	.9	.14	.89	102	3	0

Location: TUROSS RIVER NO. 6 - TUROSS BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948			Sky						
6.vii	9 am	36	1	7.5	1.28	7.95	95	0	90
	10	36	1	.6					
	11	34	3	.6	.25	.90	94		
	12 n	30	3	.8					
	1 pm	29	3	.9	0.99	8.89	107	0	70
	2	28	2	8.0					
	3	26	1	.3	.81	.20	99		
	4	24	1	.2					
	5	25	1	.0	.66	.31	100	3	70
	6	29	1	.0					
	7	35	0	.0	.70	.21	99		
	8	41	0	.1					
	9	47	0	7.9	1.88	7.47	91	4	40
	10	49	0	8.2					
	11	48	0	9.2	5.59	.75	101		
	12 m	46	0	8.5					
7.vii	1 am	40	0	.2	4.88	.85	99	5	22
	2	35	0	7.9					
	3	34	0	.9	3.16	.85	96		
	4	34		.8					
	5	30		.3	1.86	.89	94	1	63
	6	28		.2					
	7	28		.0	.28	.92	93		
	8	32	1	6.3					
	9	34	5	7.0	.10	.91	93	2	51

Location: TAMAR RIVER NO. 3 - DEVIOT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
13. ii	5 pm	67	19.2	21.0	17.35	5.41	100	2	10
	6	84	17.8	20.7					
	7	96	16.5	.5	.38	.05	93	6	10
	8	90	15.2	.3					
	9	72	.0	.3	.46	.41	99	4	10
	10	64	12.7	.2					
	11	41	.0	.0	.48	.50	101	3	12
14. ii	12 m	21	11.2	.2					
	1 am	10	10.4	.2	.33	.02	92	5	12
	2	16	.3	19.9					
	3	33	9.2	20.0	.31	.36	98	2	10
	4	58	10.4	.0					
	5	69	9.5	.1	.38	.22	95	5	12
	6	84	10.4	19.5					
	7	96	12.5	.8	.38	.33	97	2	10
	8	93	15.0	20.0					
	9	81	19.6	.2	.50	.40	99	2	10
	10	64	20.4	.5					
	11	42	19.8	.3	.32	.56	102	3	10
	12 n	21	21.4	.4					
	1 pm	3	22.5	22.8	.27	7.55	144	5	10
	2	1	.9	23.0					
	3	15	.2	.5	.23	3.98	77	3	7
	4	32	21.9	.0					
	5	55	20.1	20.7	.28	5.80	107	2	12
1. vii	10 am	60	8.1	7.8	4.64	7.11	88	1	122
	11	67	7.5	8.0					
	12 n	65	8.1	.1	5.23	6.90	87		160
	1 pm	54	.1	.2					
	2	39	.2	.6	4.90	7.61	97	0	130
	3	24	.0	.0					
	4	11	7.0	7.9	.72	.18	90		108
	5	3	5.9	.8					
	6	6	6.0	.6	.44	.18	89	0	78
	7	21	.0	.6					
	8	39	5.3	.6	.56	.20	89		123
	9	54	.2	.6					

Location: TAMAR RIVER NO. 3 - DEVIOT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
1. vii	10 pm	69	5.0	7.2	4.92	7.10	87	0	104
	11	75	4.4	.2					
	12 m	72	.6	.5	.86	.10	88		104
2. vii	1 am	55	.8	.3					
	2	39	.8	.3	.78	.09	87	0	160
	3	22	.4	.4					
	4	6	.4	.4	.78	.05	87		160
	5	6	3.5	.4					
	6	6	.0	6.1	.46	.38	88	1	123
	7	6	2.9	4.7					
	8	12	.9	6.4	.50	.06	84		108
	9	28	4.8	7.7					
	10	51	6.3	8.0	5.89	6.88	87	0	160
1948									
5. iii	4 pm	9	16.3	18.1	16.88	5.17	91	10-7	7
	6	54	14.6	17.7	.89	.40	94	8	
	7	69	.1	16.9					
	8	85	12.3	.8	17.04	.24	90	12-6	5
	9	84	11.9	17.0					
	10	67	.6	.0	.17	.17	90	9-6	
	11	65	12.0	16.9					
	12 m	46	11.9	.7	.18			15-5	34
6. iii	1 am	27	.7	.8					
	2	12	9.8	17.3	16.93			14-2	
	3	3	8.8	15.8					
	4	6	.2	16.3	.90	.12	87	15-1	20
	5	33	7.6	.1					
	6	51	.5	.3	.98	.17	88	9-8	
	7	69	8.8	15.4					
	8	96	10.7	17.1	17.15	.21	90	10-3	2
	9	86	12.1	.1					
	10	78		18.3	.20	.56	98	12-2	
	11	61	15.8	19.1					
	12 m	42	16.0	.2	.30	.32	96	20-0	2
	1 pm	21	17.3	.9					
	2	5	.3	.7	16.82	.36	97	17-15	
	3	12	19.4	18.8					
	4	0	16.4	17.9	.94	.53	97	6-14	9
	5	16	.4	.4					
	6	38	15.5	16.9	.98	.26	91	12-5	24

Location: TAMAR RIVER NO. 3 - DEVIOT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
21. vii	1 pm	96	6.1	7.7	11.06	7.32	98	6-4	42
	2	105	.9	.0					
	3	75	.7	.5	.12	.39	99		
	4	64	.9	.7					
	5	44	.6	.6	10.73	.13	95	5-9	46
	6	37	.3	.6					
	7	24	.0	.6	.56	.01	93		
	8	33	5.9	.6					
	9	45	.8	.7	.90	.05	95	3-11	28
	10	55	.6	.6					
	11	73	.5	.6	.95	6.79	91		
	12 m	105	.9	.6					
22. vii	1 am	102	.9	.9	11.75	.70	91	8-4	31
	2	96	.7	.9					
	3	76	.8	.7	10.64	7.00	93		
	4	72	.4	.6					
	5	33	.4	.5	.61	6.97	93	7-5	18
	6	9	.3	.5					
	7	0	.7	.7	.65	7.02	94		
	8	6	.7	.6					
	9	24	6.1	.6	.59	.84	104	5-11	27
	10	42	.3	.7					
	11	60	.9	.8	.92	.28	98		
	12 n	76	7.5	8.2					
	1 pm	93	.7	.2	11.56	.55	103	10-2	16

Location: TAMAR RIVER NO. 4a - ROSEVEAR

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
10.11	12.30	37	21.6	18.8	17.42	5.22	93	11-6	10
	pm								
	1.30	23	20.6	.8					
	2.30	7	21.3	.8	.40	.33	95		
	3.30	0	.9	17.9					
	4.30	20	.6	18.9	.34	.29	95	3-9	6
	5.30	39	17.9	.9					
	6.30	63	16.1	.9	.39	.28	95		
	7.30	84	14.6	.8					
	8.30	100	12.8	.8	.52	.07	91	5-13	4
	9.30	102	11.0	.5					
	10.30	96	10.4	.7	.79	.27	95		
	11.30	80	9.7	.7					
11.11	12.30	60	.6	.7	.53	.27	94	6-10	6
	am								
	1.30	45	.6	.7					
	2.30	31	10.3	.7	.43	.27	94		
	3.30	20	11.4	.7					
	4.30	34	9.9	.7	.40	.26	94	5-12	0
	5.30	57	8.0	.7					
	6.30	74	10.3	.7	.42	.21	93		
	7.30	94	15.4	.7					
	8.30	111	16.9	.7	.64	.22	94	7-10	4
	9.30	111	18.9	.6					
	10.30	99	21.2	.5	.90	.25	94		
	11.30	84	25.6	.6					
	12.30	66	24.9	.7	.60	4.11	74	9-4	3
	pm								
4. viii	11.45	37		9.5	14.34	6.96	101	7-10	0
	am								
	12.45	19		.4					
	pm								
	1.45	4	12.0	.4	13.89	.92	100		
	2.45	0	.1	8.9					
	3.45	13	9.0	9.4	.79	.94	100	7-12	0
	4.45	38	10.1	.5					
	5.45	59	7.8	.4	.99	.92	100		
	6.45	79	6.8	.5					
	7.45	94	5.5	.6	14.78	.84	100	7-13	0

Location: TAMAR RIVER NO. 4a - ROSEVEAR

Date	Time	Tide (m.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
4. viii	8.45 pm	94	7.8	9.7					
	9.45	78	5.0	.6	14.89	6.88	101		
	10.45	58	.0	.0					
	11.45	35	6.0	.4	.48	.79	98	7-14	0
5. viii	12.45 am	13	.8	.6					
	1.45	18	7.9	.3	13.86	.82	98		
	2.45	20	8.0	.2					
	3.45	28	.1	.4	.63	.97	100	7-8	0
	4.45	46	.6	.4					
	5.45	49	.7	.4	.85	.93	100		
	6.45	64	9.5	.5					
	7.45	82	10.0	.6	14.48	.84	101	7-9	5
	8.45	94	.5	.6					
	9.45	91	11.5	.7	15.20	.74	99		
	10.45	79	.1	.7					
	11.45	58	12.1	.7	14.59	.81	100	6-10	5
1950			Sky						
10. ii	4 pm	68	7	20.2	13.85	5.14	90	15-16	10
	5	96	4	.0					
	6	114	4	19.5	15.46	.40	96		
	7	130	1	.3					
	8	128	1	.4	.61	.01	89	15-8	0
	9	104	0	.1					
	10	84	0	.2	.27	.01	88		
	11	60	0	.2					
	12 m	33	0	.3	13.90	.02	87	15-24	14
11. ii	1 am	18	2						
	2	21	9	.4	12.65	4.81	83		
	3	45	6	.3					
	4	66	4	.1	14.09	.78	83	14-14	7
	5	90	8	18.6					
	6	114	9	.5	15.54	5.42	94		
	7	130	6	.6					
	8	130	6	.9	.48			12-20	0
	9	106	8	19.2					

Location: TAMAR RIVER NO. 4a - ROSEVEAR

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1950			Sky						
11.11	10 am	83	8	19.3	15.15	5.44	96		
	11	60	8	.6					
	12 n	36	8	.8	14.03	.18	91	15-4	10
	1 pm	6	8	.9					
	2	0	9	20.5	12.90	.04	88		
	3	21	8	.2					
	4	42	8	19.9	.41	4.96	86	10	27

Location: DERWENT RIVER NO. 4 - CLAREMONT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1946									
5.vii	10 am			7.8					
	11			.8	1.53	6.33	77	0-2	162
	12 n			8.0					
	1 pm			.0	.46	5.41	65	0-5	162
	2			.2					
	3			.3	.46	6.01	73	0-8	162
	4			.1					
	5			.1	.33	.30	76	0-6	162
	6			.2					
	7			.1	.31	.53	79	0-5	137
	8			.1					
	9			.1	.29	7.16	86	0-3	157
	10			7.9					
	11			.4	.34	.19	85	0-7	200
	12 m			.5					
6.vii	1 am			.0	.46	6.61	78	0-8	137
	2			.8					
	3			.8	.46	5.12	62	0-5	140
	4			.8					
	5			.9	.53	6.50	79	0-5	130
	7			.2	.57	7.10	84	0-11	140
	8			.2					
	9			.2	.65	6.53	78	0-9	137
1947									
25.ii	11 am	50	17.0	16.2	14.58	6.28	104	2	9
	12 n	50	18.5	.2					
	1 pm	47	.5	17.2	.70	.54	111	1	7
	2	42	19.1	.9					
	3	36	18.0	.9	.58	.35	108	2	9
	4	32	.5	18.0					
	5	30	.7	19.2	.77	.86	120	2	9
	6	32	.8	18.8					
	7	32	17.8	.7	.76	.60	115	2	12
	8	35	.1	17.1					
	9	43	14.4	.0	15.57	.27	107	3	7
	10	48	12.5	16.9					
	11	51	11.9	.8	.99	.26	97	5	7

Location: DERWENT RIVER NO. 4 - CLAREMONT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1947									
25.ii	12 m	52	11.5	16.7					
26.ii	1 am	53	.0	.4	15.81	6.10	103	2	9
	2	48	10.6	.0					
	3	42	.7	15.7	.57	.00	100	5	7
	4	38	.3	.9					
	5	35	.0	.9	14.75	.12	90	4	4
	6	33	11.0	16.0					
	7	32	12.2	.0	.06	.27	103	2	17
	8	34	15.3	.0					
	9	37	18.0	.0	.19	.20	102	2	12
	10	43	20.0	.6					
	11	46	19.6	.6	.82	.26	105	2	9
25.vi	11 am	30	7.8	5.5	0.05	7.76	87	0-11	60
	12 n	35	8.5	.4					
	1 pm	42	9.5	.4	.05	.60	85		74
	2	47	.4	.5					
	3	50	8.5	.5	.05	.88	89	0-12	74
	4	50	7.8	.5					
	5	44	.3	.7	.04	.00	79		64
	6	39	5.5	.6					
	7	36	4.8	.3	.04	.00	78	0-19	64
	8	33	3.4	.2					
	9	29	.5	.3	.04	.30	82		52
	10	32	.0	4.9					
	11	35	.7	.9	.04	.60	84	0-13	65
	12 m	38	.1	.7					
26.vi	1 am	40	.9	.6	.04	8.10	89		64
	2	42	.2	.6					
	3	44	2.0	.4	.03	.02	88	0-14	93
	4	42	1.6	.4					
	5	32	.8	.4	.02	.02	88		58
	6	27	.0	.4					
	7	21	.1	.4	.08	.02	88	0-19	54
	8	18	.0	.4					
	9	15	.5	.4	.05	7.88	86		65
	10	14	2.5	.4					
	11	18	3.5	.4	.04	.90	87	0-14	64

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Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1948									
10.iii	12 n	22	15.1	13.5	9.35	5.37	80	13-0	5
	1 pm	18	16.5	14.5					
	2	12	14.3	13.9	6.71	6.00	87		
	3	15	.6	.8					
	4	16	15.1	14.0	.76	5.90	86	13-0	6
	5	19	.9	13.7					
	6	24	.0	.8	.91	.78	84		
	7	24	12.5	.6					
	8	30	11.0	.6	.89	.85	85	13	5
	9	33	10.4	.3					
	10	31	.7	.3	12.90	.00	77		
	11	27	.1	.3					
	12 m	24	9.7	12.9	7.39	.54	79	8-0	10
11.iii	1 am	22	8.5	13.1					
	2	21	.3	12.4	6.16	.40	76		
	3	18	9.0	.8					
	4	21	8.7	.7	5.79	2.35	33	5-3	10
	5	24	9.6	.3					
	6	30	.8	.5	6.21	5.23	73		
	7	32	11.3	.4					
	8	36	12.4	.6	7.19	.38	77	11-1	18
	9	35	14.0	.6					
	10	33	17.3	13.2	6.96	.06	73		
	11	30	19.0	.2					
	12 n	24	18.6	12.7	5.25	.29	74	13-0	14
14.vii	6 pm	35	9.9	6.0	6.68	7.33	90	7-5	0
	7	29	10.2	5.9					
	8	24	9.7	.4	2.44	6.65	76		
	9	20	.7	.4					
	10	15	.5	.5	1.40	8.06	91	1-4	9
	11	21	.4	6.6					
	12 m	21	.1	5.2	.29	.12	91		
15.vii	1 am	22	.1	.5					
	2	27	.1	.1	.13	.16	92	1-3	23
	3	33	.5	.2					
	4	36	8.6	.1	.33	5.36	60		
	5	31	.7	.9					

Location: DERWENT RIVER NO. 4 - CLAREMONT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O ₂	O ₂ %	PO ₄ -P	NO ₃ -N
1948									
15. vii	6 am	27	9.0	5.2	5.40	7.60	90	4-2	32
	7	24	8.7	.4					
	8	24	7.6	.3	2.06	8.24	94		
	9	18	9.0	.8					
	10	18	.4	.2	1.55	7.98	91	0-6	0
	11	24	10.9	.8					
	12 n	30	11.7	.6	.15	8.24	94		
	1 pm	36	.9	.5					
	2	42	.8	.5	.21	7.92	90	6-0	0
	3	51	12.2	.8					
	4	51	11.5	.8	.65	.97	92		
	5	45	8.4	6.1					
	6	52	.8	5.7	.18	.55	86	5-3	0
1949									
3. ii	11 am	58	21.5	19.0	6.05	6.07	96	8-1	5
	12 n	55	20.5	.2					
	1 pm	53	22.7	.3	10.91	5.59	94		
	2	49	21.7	.2					
	3	46	.3	.2	8.70	.78	95	9-9	0
	4	42	.1	.2					
	5	40	19.9	.2	7.14	.99	96		
	6	36	.5	.1					
	7	38	.3	.2	.52	.87	95	6-6	0
	8	43	18.7	.0					
	9	48	.1	18.7	.49	.76	92		
	10	55	17.8	.7					
	11	59	.1	.5	.55	.73	92	6-10	0
4. ii	12 m	63	.3	.5					
	1 am	63	.7	.3	13.70	.04	86		
	2	54	14.5	.2					
	3	58	.3	.2	16.78	4.73	83	15-22	0
	4	55	13.5	.2					
	5	51	.0	.2	7.51	5.57	89		
	6	48	.4	.2					
	7	50	14.2	.0	8.22	.49	88	6-10	9
	8	48	.6	17.8					
	9	48	15.2	.8	7.37	.08	80		
	10	48	17.0	.8					
	11	54	16.9	18.3	.76	.73	91	3-15	6

Location: DERWENT RIVER NO. 4 - CLAREMONT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1949									
28.vii	4 pm	49	11.0	6.0	2.98	7.91	93	0-9	15
	5	51	.0	.5					
	6	55	.0	.1	3.28	.99	94		
	7	60	8.0	.0					
	8	66	.0	.0	.51	8.08	96	0-14	12
	9	70	.0	7.0					
	10	72	.0	.0	4.25	7.89	96		
	11	72	7.4	.5					
	12 m	63	.0	5.5	2.57	8.28	96	2-8	14
29.vii	1 am	54	.0	.3					
	2	44	5.8	6.0	3.55	.05	95		
	3	36	.5	5.4					
	4	27	.0	.5	.57	.07	94	7-12	13
	5	24	.0	.5					
	6	22	4.5	.5	2.89	.07	94		
	7	30	.5	.5					
	8	36	.5	.5	3.42	7.77	91	4-8	9
	9	45	6.5	.5					
	10	51	7.0	.7	4.34	.60	90		
	11	57	9.5	6.0					
	12 m	60	10.5	.4	5.45	.60	92	6-9	10
	1 pm	60	11.5	.5					
	2	55	12.0	.5	3.38	.78	92		
	3	48	.0	.5					
	4	51	.0	.0	.94	.74	92	6-7	14
1950			Sky						
13.ii	1 pm	21	6	17.7	6.28	5.67	88	8-3	0
	2	24	5	18.2					
	3	30	4	.6	8.08	.40	87		
	4	39	6	.9					
	5	44	7	19.3	.69	.33	88	12-6	7
	6	47	4	17.7					
	7	48	10	.3	9.23	.63	90		
	8	46	10	.3					
	9	44	10	.3	8.70	.47	87	12-11	3
	10	43	10	.3					
	11	41	10	.2	.30				
	12 m	48	10	.1					

Location: DERWENT RIVER NO. 4 - CLAREMONT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O ₂	O ₂ ‰	PO ₄ -P	NO ₃ -N
1950			Sky						
14. ii	1 am	51	10	17.0	8.68	5.44	86	11-2	3
	2	54	10	16.9					
	3	60	10	.7	10.10	.66	90		
	4	64	10	.9					
	5	67	10	17.0	.50	.36	86	15-8	0
	6	68	10	.0					
	7	63	10	16.9	.66	.52	89		
	8	54	10	17.0					
	9	45	10	16.9	8.16	4.38	69	14-0	3
	10	36	10	.8					
	11	28	10	17.1	7.32	.89	76		
	12 n	20	10	.1					
	1 pm	18	10	.1	.05	3.66	57	7-12	3
5. vii	2 pm	54	4	8.3	7.45	7.53	98	8-4	5
	3	55	4	.2					
	4	51	4	.0	6.71	.66	98	10-1	3
	5	48	5	7.7					
	6	44		.2	5.86	.77	96	5-8	5
	7	42		.2					
	8	42		6.5	4.66	8.00	97	4-6	6
	9	44		7.0					
	10	45		6.5	5.20	7.98	97	2-5	5
	11	48		7.3					
	12 m	51		6.6	.67	.79	96	6-0	5
6. vii	1 am	51		.4					
	2	48	6	.5	.41	.78	95	5-4	3
	3	45	8	.2					
	4	42	8	.2	.34	.95	96	5-1	4
	5	36	10	.5					
	6	31	10	.3	.40	.78	94	6-0	4
	7	30	10	.6					
	8	30	10	.7	.72	.67	94	4-4	4
	9	33	10	.6					
	10	35	10	.6	.74	.71	94	6-1	7
	11	41	10	.7					
	12 n	48	10	.7	6.01	.84	98	9-0	5
	1 pm	54	9	7.1					
	2	57	9	.0	.51	.73	97	4-8	5