

OCEANOGRAPHICAL STATION LIST

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

Volume 15

**Estuarine Hydrological Investigations in
Eastern and South-western Australia, 1952**

Compiled by D. J. Rochford and R. Spencer

**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH
ORGANIZATION, AUSTRALIA
MELBOURNE 1953**

OCEANOGRAPHICAL STATION LIST

ESTUARINE HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN
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I. INTRODUCTION

The hydrological data contained in this volume were collected from estuarine systems in Queensland, New South Wales, Victoria, Tasmania, and south-western Australia during 1952.

II. METHODS

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

III. TIDAL CORRECTIONS

As in previous volumes, no tidal corrections have been applied to the data in this volume.

IV. UNITS

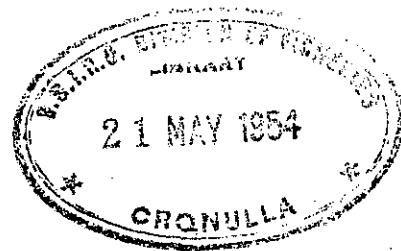
Units are those used by Rochford (1951).

V. LOCATION OF STATIONS

The station locations are similar to those in previous volumes. Commencing on July 14, 1952, however, a series of stations across the Hawkesbury River at the Pumpkin Point site were occupied at the peak of high and low waters. The positions of these stations are given in Table 1.

VI. PERSONNEL

The laboratory analyses of the data have been the responsibility of Messrs. R. Spencer, A. Middleton, H. Jitts, and the hydrology staff at Cronulla and Perth. Messrs. C. Brown, G. Kitchen, K. Champion, and C. Wirrell were responsible for the field collecting. Misses O. Jacobsen, J. Pincombe, and S. Walden have been responsible for the processing of the data and for the preparation of the typed data sheets prior to printing.



VII. REFERENCES

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

TABLE 1
LOCATION OF STATIONS ON THE PUMPKIN
POINT SECTION OF THE HAWKESBURY RIVER

Station No.	Distance from South Bank (High Water) (yd)
1	75
2	150
3	250
4	350
5	450
6	525

Location: FITZROY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 12- 13.11	1	S	28.10	19.28	4.24	90	8.02 8.02	20-11	92
		D	28.40	19.32	3.82	82		22-7	125
	1a	S	27.90	18.14	4.27	90		24	182
		D	28.00	18.31	4.10	86		26	214
	2	S	28.10	16.36	4.12	85		35-8	260
		D	28.30	16.35	3.98	82		35-6	355
	3	S	28.30	15.95	3.95	81		68	284
		D	27.90	16.11	4.06	83		34	316
	4	S	28.10	9.75	4.22	81		47-0	455
		D	28.10	9.92	3.98	77		47-5	465
	5	S	28.00	1.75	3.74	66		40	510
		D	27.30	1.00	3.72	65		34	510
	6	S	28.90	0.25	3.36	59		47-5	520
	7	S	29.50	0.24	3.53	63			515
	8	S	29.60	0.17	3.82	68		69-0	515
	9	S	30.30	0.07	3.30	59		69	505
	10	S	29.80	0.19	3.72	66		51-8	515

Location: GLADSTONE HARBOUR

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
13-	1	S	26.40	20.23	4.42	93	8.13	7-3	10
15.11		D	26.60	20.28	4.27	90	8.09	9-8	14
	2	S	27.70	20.48	4.18	90	8.05	10	14
		D	27.70	20.51	4.32	93	8.06	7	14
	3	S	26.40	20.75	4.30	91	8.04	9-6	18
		D	27.50	20.82	3.98	86	7.79	7-10	16
	4	S	27.20	20.68	4.24	91	8.02	8	4
		D	27.30	20.77	4.20	90	8.04	10	7
	5	S	27.60	21.09	4.07	88	7.79	13-3	8
		D	27.80	21.21	3.93	86	7.97	11-9	0
	6	S	29.80	8.99	4.45	87		26-3	19
	7	S	29.10	21.39	4.33	97	7.94	11	3
	8	S	28.00	11.93	5.44	107		15-19	2

Location: MARY RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 19- 20.11	1	S	26.70	20.43	4.27	90	8.08	4	0
		D	26.70	20.50	4.27	90	8.03	6	0
	2	S	26.70	20.06	4.25	89	8.10	3-10	0
		D	26.50	20.13	4.15	87	8.00	4-11	0
	3	S	26.50	18.70	4.72	97		3	0
		D	26.60	18.82	4.71	98		6	0
	4	S	26.80	17.37	4.62	94		4-12	110
		D	26.40	17.65	4.86	99		2-14	88
	5	S	26.90	14.49	4.34	86		17	450
		D	27.00	14.82	4.09	81		14	430
	6	S	27.20	12.64	4.12	80		19-19	545
D		27.30	13.11	4.20	83		19-16	555	
7	S	27.30	11.38	3.71	71		27	620	
	D	27.40	11.66	3.69	72		28	575	
8	S	27.40	10.67	3.62	69		1-33	605	
	S	27.50	8.98	3.97	75		37	41	
10	S	27.70	0.56	3.97	69		22	46	
	S	26.70	0.23	3.97	68		8-12	0	

Location: SANDY ISLAND STRAITS

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 19.11	1	S	26.90	20.24	4.62	98	8.16	3-8	0
		D	26.40	20.24	4.68	98	8.18	3-17	0
	2	S	27.30	20.27	4.43	94	8.15	3	0
		D	27.30	20.24	4.41	94	8.02	0	0
	3	S	27.50	20.24	4.65	99	8.17	0-14	0
		D	26.50	20.27	4.92	103	8.14	2-6	0
	4	S	27.20	20.27	4.44	94	8.15	1-4	0
		D	26.50	20.30	4.54	95	8.15	2-11	0
	5	S	26.70	20.44	4.45	94	8.16	0	0
		D	26.40	20.47	4.49	94	8.16	2	0
	6	S	27.20	20.78	4.26	91	8.10	2	12
		D	27.50	20.78	4.10	88	7.79	1	16
	7	S	27.40	20.76	4.92	106	8.16	1-7	0
		D	27.20	20.70	4.40	94	8.14	4-11	11
	8	S	26.40	20.15	4.64	97	8.16	2-10	0
		D	27.00	20.30	4.44	91	8.16	1-9	0

Location: MORETON ISLAND LAGOON

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
1.ii	1	S	28.70	2.52	4.26	76		7-42	0
		D	27.00	2.52	2.93	51		7-51	4.2
	2	S	29.90	2.51	4.35	80		7-20	4
		D	29.50	2.52	4.45	81		6-47	6
28.ii	1	S	25.00	2.61	5.20	88	8.90	10-13	19
		D	24.70	2.57	4.70	79	8.89	15-53	0
	2	S	24.30	2.62	4.57	77	8.88	9-33	0
		D	24.00	2.60	4.14	69	8.85	14-58	7
14.iii	1	S	27.10	2.45	6.85	120	9.16	9-62	0
		D	23.30	2.45				8-91	0
	2	S	27.80	2.52	6.73	117	8.87	6-46	0
		D	23.20	2.45	1.23	20	9.16	10-83	0
26.iii	1	S	23.90	2.25	5.08	84	9.03	7-30	4
		D	23.30	2.22	2.60	43	8.97	7-30	4
	2	S	24.70	2.19	4.35	73	8.84	9-28	4
		D	23.70	2.21	4.21	70	9.06	8-45	4
17.iv	1	S	25.60	2.16	5.07	86	9.26	9-31	4
	2	S	27.50	2.17	6.41	113	9.29	9-28	5
		D	25.40	2.16	5.07	86	9.25	7-27	5
2.v	1	S	17.80	2.15			9.31	7-21	0
		D	17.95	2.17	5.32	80	9.31	9-20	0
	2	S	17.10	2.13	4.57	67	9.28	6-20	0
		D	17.10	2.16	5.25	77	9.26	7-26	0
16.v	1	S	22.00	2.10			9.30	7-22	0
		D	21.85	2.12			9.28	8-23	6
	2	S	22.40	2.13			9.31	7-0	0
		D	21.90	2.13			9.28	7-49	0

Location: MORETON ISLAND LAGOON

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 22.v	1	S	17.70	2.07	5.05	75		6-12	0
		D	18.00	2.06	4.68	71		8-92	0
	2	S	17.75	2.12	4.92	73		7-0	0
		D	17.40	2.10	4.97	73		6-3	0
5.vi	1	S	16.50	2.13	6.10	89	9.20	8-1	7
		D	16.00	2.12	5.29	76	9.20	5-56	7
	2	S	16.75	2.20	6.18	90	9.23	4-24	4
		D	16.50	2.13	6.08	89	9.23	5-56	5
20.vi	1	S	15.70	1.95	4.88	70		7-9	
		D	15.60	2.05	4.02	57		4-18	
	2	S	15.80	1.96	3.86	55		8-24	
		D	14.90	1.93	5.25	74		7-27	
7.vii	1	S	14.35	2.07	6.00	84	9.24	8	
		D	14.30	2.05	3.42	48	9.19	8-29	
	2	S	14.00	2.00	5.85	81	9.19	7-18	
		D	13.85	2.00	5.97	82	9.24	9-14	
21.vii	1	S	16.00	4.50	6.30	93	9.05	7-28	
		D	16.50	5.33	4.48	67	8.91	7-17	
	2	S	16.40	4.44	4.54	68		7-23	
		D	16.80	5.43	4.65	70	8.93	10-16	
1.viii	1	S	16.50	4.90	5.26	79	9.06	4-15	0
		D	18.00	4.90	3.62	56	8.94	7-27	0
	2	S	17.70	4.86	5.20	80	9.04	8-0	0
		D	17.50	5.24			8.86	9-16	0
18.viii	1	S	18.80	8.71	4.10	67	8.77	6-31	0
		D	17.50	8.70	1.72	27	8.80	6-25	0
	2	S	18.10	8.74			8.82	4-26	0
		D	17.70	8.88			8.74	9-29	0

Location: MORETON ISLAND LAGOON

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 26.viii	1	S	17.40	8.66	4.09	65	8.66	7-37	0
		D	16.70	8.77	4.50	71	8.68	6-20	0
	2	S	17.25	8.68	3.65	58	8.72	6-69	0
		D	16.50	8.67	2.40	38	8.74	7-3	0
5.ix	1	S	20.00	8.51	1.18	20	8.24	18-17	0
		D	19.75	8.58	3.72	61	8.47	20-28	0
	2	S	20.00	8.57	3.76	62	8.41	14-23	0
		D	19.60	8.57	3.38	56	8.39	17-20	0
5.x	1	S	22.70	7.41	4.58	79	8.52	12-29	0
		D	22.50	7.41	5.10	87	8.52	1-39	0
	2	S	22.40	7.48	4.58	78	8.51	12-45	0
		D	22.30	7.55	4.70	80	8.42	12-31	0
23.x	1	S	22.00	7.38	4.45	75	8.69	8-25	0
		D	21.10	7.38	4.46	74	8.69	8-48	0
	2	S	22.20	7.39	5.33	90	8.70	11-27	0
		D	21.20	7.40			8.65	5-44	0
5.xi	1	S	29.10	7.32	5.20	99		42-25	6
		D	26.40	7.32				61-32	467
	2	S	29.80	7.32	6.05	110		57-16	9
		D	26.30	7.32				55-25	1001
17.xi	1	S	26.40	6.68				40-20	10
		D	26.20	6.41				43-28	14
	2	S	28.50	6.38				44-15	7
		D	25.20	6.34				56-18	13
1.xii	1	S	27.40	5.13				29-3	8
		D	23.60	7.95				30-9	310
	2	S	27.20	7.50				49	23
		D	23.90	7.89				22	365
16.xii	1	S	25.00	7.87				23-17	2
		D	24.60	8.14				36-28	17
	2	S	24.50	7.86				23-39	13
		D	24.40	8.61				36-60	37

Location: MORETON BAY - BRISBANE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 18- 19.iii	1	S	24.10	20.37	5.08	103	8.03	8-7	1	
		D	23.80	20.29	4.86	98	8.02	9-12	6	
	2	S	23.65	20.20	4.35	87	7.84	10-7	3	
		D	24.20	20.10	4.92	99	8.04	7-9	3	
	23- 24.iv	1	S	23.60	19.86	4.95	99	8.07	6-6	6
			D	23.60	19.86	4.64	93	8.02	6-4	0
2		S	23.60	19.93	4.78	95	8.01	3-6	0	
		D	23.70	19.86	4.38	87	8.11	7-7	0	
		D	23.70	19.78	4.42	88	8.13	8-9	2	

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
15. i		S	26.60	20.17	4.70	99		4-8	4
24. i		S	29.70	20.23				8-22	9
12. ii		S	27.60	20.52	4.77	103		12-9	2
29. ii		S	23.50	19.44	4.56	90		8-12	0
17. iii		S	24.00	19.40	5.52	110		3	0
25. iii		S	23.60	19.52	5.06	100		7-7	0
28. iii		S	25.10	19.52	5.60	114		11-3	0
4. iv		S	23.50	18.89	4.96	98		8-3	0
9. iv		S	24.80	19.52	4.48	91		8-5	0
21. iv		S	23.30	19.59	4.60	91		2-7	4
23. iv		S	24.80	19.62	5.10	104		2-5	0
30. iv		S	18.00	19.42	5.80	105		3-9	0
13. v		S	22.60	19.61	5.62	110		3-14	2
19. v		S	21.75	19.51	6.17	119		5-12	3
29. v		S	17.20	19.72	5.80	104		12-0	3
3. vi		S	16.80	19.74	5.55	99		11-0	11
10. vi		S	18.70	19.52	5.59	102		10-0	0
16. vi		S	17.60	18.84	5.42	97		9-6	3
25. vi		S	15.20	19.06	5.88	101		3-17	0

Location: DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 27.vi		S	17.00	19.28	5.76	102		5-9	0
14.vii		S	17.10	19.33	5.75	102		3-14	0
30.vii		S	20.40	19.42				7-12	0
20.viii		S	19.50	19.33	4.68	87		3-8	0
29.viii		S	16.30	19.42	5.47	96		8-33	0
3.ix		S	19.70	19.58	5.08	95		10-1	0
7.x		S			5.40			11-6	0

Location: SOUTH DUNWICH OYSTER LEASE

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
27.ii		S	25.40	19.59	5.42	111		6-3	0
4.iv		S	23.90	19.19	5.30	105		9-5	0
1.v		S	18.80	19.70	5.70	105		3-10	0
2.vi		S	18.00	16.58	7.36	129		7-0	2
17.vii		S	19.30	19.03	6.19	114		3-24	0
29.viii		S	17.40	19.42	5.23	94		11-8	0

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 4- 8.ii	2	S	26.60	20.44	4.35	92	8.21	4-14	2
		D	25.95	20.38	4.34	91	8.23	5-12	0
	2a	S	26.40	20.46	4.46	94	8.20	4-11	0
		D	25.10	20.44	4.26	88	8.19	5-12	2
	3	S	26.60	20.46	4.47	95	8.08	10-8	4
		D	26.20	20.50	4.37	92	8.14	10-24	0
	4	S	26.80	20.73	4.47	95	7.97	10-6	6
		D	26.50	20.70	4.00	85	8.00	16-8	4
	6	S	27.80	15.91	4.35	89	7.96	15-13	6
		D	27.40	16.27	4.08	83	7.94	15-8	4
	6a	S	28.30	8.52	4.47	85	7.76	37-16	90
		D	27.40	9.35	3.55	67	7.84	37-8	100
	7a	S	26.70	3.40	4.43	78	7.96	49-36	3
		D	27.00	3.95	3.94	70	7.80	81-17	212
28.ii	1	S	25.00	19.33	5.20	105	8.23	7-8	0
		D	24.90	19.32	4.80	97	8.21	8-14	0
11- 12.iii	3	S	24.90	19.60	5.19	105	8.09	5-12	0
		D	24.30	19.64	4.92	99	8.18	10-4	0
	4	S	26.20	19.67	4.97	103	8.00	1-21	0
		D	24.80	18.58	5.04	101	7.89	8-7	0
	6	S	25.10	16.33	5.05	99	7.97	13-1	0
		D	24.70	16.65	2.28	43	7.59	8-13	7
	6a	S	26.30	9.75	2.28	43	7.59	8-24	0
		D	25.40	10.14	2.05	38	7.62	42-16	120
	7a	S	24.80	1.15	3.83	64	7.51	47-17	230
		D	24.80	2.09	3.93	66	8.01	88-11	72
26.iii	1	S	24.00	19.55	5.10	102	8.17	6-9	3
		D	23.90	19.60	5.00	100	8.14	6-9	0
8- 9.iv	3	S	23.60	19.22	3.86	76	8.06	9-0	0
		D	23.50	19.50	4.31	85	7.87	12-0	3
4	S	23.50	19.04	3.72	73	8.05	19-0	0	

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 8-	6	S	23.80	6.45	4.24	71	7.80	38-0	435
		D	23.90	7.57	3.86	68	7.14		555
9.1v	6a	S	24.20	0.45	1.09	18	7.31	92-6	385
		D	24.10	0.44			7.47	68	110
	7a	S	23.40	0.20	4.14	67	8.17	74-0	54
		D	23.30	0.09	4.10	66	7.98	13-71	68
	8	S	23.60	15.65	3.54	67	8.02	28-0	72
		D	23.50	16.54	3.36	64	7.88	20-3	31
2.v	1	S	21.60	19.64	5.23	101	8.25	5-5	0
		D	20.30	19.88	5.50	104	8.23	2-10	0
14-	3	S	21.50	19.72	5.17	99	8.16	3-13	0
		D	21.50	19.62	5.18	99	7.94	5-10	2
15.v	5	S	21.90	15.60	5.55	103	7.77	10-7	3
		D	21.60	17.96	4.88	92	7.77	18-8	2
	6	S	21.60	9.02	4.42	76	7.75	22-9	98
		D	20.90	9.48	3.04	52	7.89	23-13	139
	6a	S	21.30	0.15	1.15	18	7.31	61-19	114
		D	21.10	0.15	1.30	20	7.17	56-24	140
	7a	S	22.10	0.21	5.18	82	7.77	41-14	107
		D	20.40	0.10	5.07	78		53-11	193
22.v	1	S	18.75	19.60			8.28	6-12	0
		D	18.60	19.84			8.24	6-8	0
27.vi	1	S	21.30	19.61	5.33	102	8.26	8-5	0
		D	19.20	19.54	5.65	104	8.26	7-23	0
1.vii	6a	S	13.30	0.15	5.50	74	7.68	43-20	316
		D	13.70	0.19	6.19	84	7.66	43-18	365
	9	S	12.80	0.23	6.35	85	7.80	41-30	71
21-	1	S	19.05	19.47	5.64	104	8.25	15-8	0
		D	18.60	19.65	4.48	82	8.25	13-10	0
25.vii	2	S	16.80	19.53	5.66	102		8-9	0
		D	17.00	19.53	5.57	99		9-5	0

Location: MORETON BAY - LOGAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952										
21- 25. vii	2a	S	17.00	19.47	5.66	101		4-13	0	
		D	16.20	19.53	5.76	101		7-10	0	
	3	S	17.00	19.19	5.66	100		7	2	
		D	16.95	19.36	5.50	78		11-12	0	
	4	S	16.05	18.93	5.50	95		11-5	9	
		D	15.60	16.15	5.85	98		22-2	8	
	6	S	15.40	17.56	4.40	74		87-47	458	
		D	15.95	7.14	5.95	90		33-4	127	
	6a	S	16.20	8.04	5.85	90		33-7	126	
		D	16.10	0.20	4.45	63		56-7	6	
	7a	S	16.10	0.18	4.35	62		63-0	211	
		D	15.30	0.39	6.69	93		41	4	
	20. viii	3	S	15.40	0.24	6.80	95		51-2	69
			D	18.90	19.04	5.20	95	7.95	4-7	0
4		S	18.90	19.16	4.92	90	7.88	15-15	0	
		D	19.40	17.73	4.92	89	7.78	3-14	0	
5		S	18.90	6.09	4.45	71	7.55	46-14	136	
		D	18.90	6.26	4.74	75	7.40	43-22	136	
6		S	18.50	1.38	3.92	59		61-21	217	
		D	18.40	1.44	3.96	59	7.33	81-4	231	
6a		S	17.60	0.10	4.45	65	7.58	73-37	167	
		D	17.50	0.09	4.40	64	7.91	82-28	169	
22. viii		2	S	18.80	19.36	4.47	82		4-3	0
			D	18.70	19.38	4.60	84		4-3	0
		2a	S	18.80	19.38	4.92	90		4-3	0
			D	18.70	19.38	4.92	90		7-0	0

Location: NERANG AND COOMERA RIVERS

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
1.vii	1	S	15.40	9.50	5.88	91	7.59	9-13	56
	2	S	14.90	0.13	6.90	95	7.89	11-16	186
	3	S	15.10	7.75	4.90	74	7.62	6-23	6
	4	S	14.20	1.24	7.00	97	8.17	7-23	290

Location: RICHMOND RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
1-3.11	1	S	19.60	19.60	5.32	99	8.11	18-3	23
	2	S	19.70	19.55	5.03	93	8.11	19-4	79
	3	S	21.20	18.69	4.66	88	8.02	14-7	6
	4	S	25.00	15.96	4.62	90	7.84	30-0	19
	5	S	25.80	13.88	5.04	97	7.89	34-12	9
		D	26.00	14.11	5.17	101	7.85	36-7	28
	6	S	25.80	11.51	4.52	85	7.71	38-5	38
	7	S	26.10	5.08	4.92	87	7.95	23-4	4
		D	26.00	5.00	4.83	85	7.86	29-28	0
	8	S	26.80	0.57	5.26	90	8.32	34-23	85
	D	26.80	0.28	5.22	89	8.63	30-7	89	
9	S	27.00	0.13	4.58	78	8.19	72-4	89	
10	S	26.50	0.11	5.98	101	8.43	58-9	158	

Location: CLARENCE RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
31.1	5a	S	28.40	11.41	4.80	92	7.77	6-7	8
	6	S	28.20	9.85	5.24	101	7.99	10-7	31
		D	27.60	10.44	4.80	92	7.82	4-11	31
	7	S	28.20	7.76	4.73	89	7.43	8-5	62
		D	28.00	7.96	4.47	84	7.47	11-4	70
	8	S	28.80	5.85	5.04	94	7.74	11-14	62
		S	28.40	2.71	5.13	92	7.95	1-8	0
	9	D	27.30	3.60	4.47	80	8.00	6-14	47
		S	31.00	1.04	5.27	97	7.48	14-7	2
	10	S	29.80	0.97	4.73	85	7.52	7-10	35
	12	S	31.90	0.17	4.73	88	7.91	11-10	7
	1.11	1	S	22.90	19.57	4.93	97		8-39
2		S	28.10	19.55	4.93	106	7.99	12-12	5
3		S	25.50	16.63	4.80	95	7.75	14-9	5
4		S	28.50	13.02	4.28	86	8.05	8-9	28
5		S	28.10	12.31	4.51	89	7.92	8-6	8
		D	28.20	12.35	4.39	87	7.82	9-7	36
3.11	15	S	27.10	0.12		8.76	19-12	132	

Location: **MACLEAY RIVER**

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952 19.1	1	S	23.80	19.65	5.01	100	8.00	11-0	0	
	2	S	26.20	17.04	4.99	100	7.85	16	2	
	3	S	26.10	8.06	5.53	101	7.61	11-6	10	
		D	26.40	8.26	5.45	100	7.63	17-0	20	
	4	S	25.30	4.48	5.75	100	7.64	5-5	5	
		D	26.40	4.68	5.43	96	7.65	8-5	35	
	5	S	27.30	0.39	5.67	98	7.97	7	3	
		D	27.30	0.41	5.73	99	7.95	8	2	
	6	S	28.40	0.14	5.46	95	8.13	11	3	
	6a	S	28.50	0.04	6.33	111	8.30	6-11	3	
	7	S	31.50	0.04	6.65	122	8.29	7	2	
									0	
	26.11	2	S	22.40	15.61	5.10	95	7.83	14	17
		3	S	22.80	5.43	4.99	84	7.66	14-7	42
		D	22.90	5.48	4.92	83	7.65	15-3	64	
4		S	22.90	3.39	5.43	89	7.62	7-11	10	
		D	22.90	3.40	5.51	91	7.66	11-15	0	
5		S	22.40	1.08	5.55	89	7.87	10	117	
		D	22.40	0.33	5.55	88	7.81	10	133	
6		S	23.50	0.26	5.72	92	7.88	11	39	
6a	S	23.20	0.11	5.72	92	7.87	6-11	128		
7	S	23.20	0.10	5.43	87	7.84	3	122		

Location: HASTINGS RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
18-	1	S	23.50	19.56	5.44	108	8.07	10-0	2
19.1	2	S	24.10	18.21	4.89	96	7.93	7-6	2
	2a	S	27.60	8.87	4.19	79	6.98	2-6	8
	3	S	25.30	11.42	4.36	81	7.80	11	4
	4	S	25.70	2.48	5.03	86	7.84	8-4	2
	4a	S	27.40	0.41	4.43	76	7.40	7-3	8
	5	S	26.50	0.13	4.87	82	7.88	7	7
	5a	S	26.60	0.06	5.13	87	7.87	3-20	4
	6	S	27.40	0.07	5.62	97	7.88	3-11	0
	7	S	27.00	0.07	4.93	84	7.73	3-11	16

Location: MANNING RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952										
16- 17.1	1	S	21.10	15.53	5.27	96	7.94	6	0	
	2	S	24.80	15.49	3.98	77	7.58	7-13	30	
	3	S	24.40	15.13	4.50	86	7.62	8-6	4	
	6	S	24.80		4.37		7.53	12-5	4	
	7	S	25.80	0.10	5.16	87	7.83	7-8	138	
	8	S	25.90	0.05	5.63	94	8.17	3-10	8	
	9	S	25.00	0.05	6.00	99	8.15	3-3	6	
	11	S	25.20	0.23	5.38	90	8.03	7-13	33	
	29.11									
	2	S	21.90	4.01	3.17	52	6.96	9-8	469	
	3	S	22.70	3.96	4.36	72	7.35	22-7	667	
6	S	21.60	0.13	4.88	76	7.43	21-13	778		
7	S	21.00	0.08	5.20	80	7.48	32-9	778		
8	S	21.20	0.10	4.63	72	7.43	31-15	778		
9	S	21.20	0.06	4.77	74	7.41	34-7	778		
11	S	22.30	0.07	5.06	80	7.41	8-15	767		

Location: PORT STEPHENS - TILIGERRY CREEK

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 15.1	1	S	24.50	20.24	6.28	128	7.99	5-5	0

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
18. i	17	S	26.10	0.10	4.91	83	7.40	3-10	21
		D	26.00	0.10	4.81	81	7.50	5-9	68
	18	S	25.50	0.05	4.27	72	7.56	3-12	4
		18a	S	24.00	0.06	4.38	71	7.42	5-11
	19	S	26.00	0.07	4.07	68	7.75	7-12	73
		D	25.90	0.10	4.22	71	7.75	1-21	102
	20	S	24.60	0.08	4.52	74	7.61	3-11	130
	21	S	25.00	0.08	5.39	89	7.68	4-8	88
		D	25.00	0.10	4.98	82	7.68	1-12	92
	22	S	25.00	0.08	4.89	81	7.76	0-17	86
	23	S	24.80	0.08	4.49	74	7.68	1-9	63
	24	S	24.10	0.10	5.10	83	7.83	2-18	325
	25	S	21.20	0.06	5.36	83	8.18	0-20	96
	26	S	23.70	0.12	5.16	83	8.12	3-9	70
22- 23.1	1	S	23.80	18.81	5.45	107	7.46	3-7	8
		D	23.00	19.27	5.05	99	7.90	11-0	8
	2	S	24.60	18.86	5.16	103	7.89	6	0
		D	20.70	18.86	0.71	13	7.87	22	43
	3	S	26.40	18.72	5.09	105	7.92	12-25	4
		D	22.70	18.87	1.84	36	7.80	17-12	4
	4	S	23.60	18.82	5.00	98	7.87	10	20
		D	22.70	19.22	4.90	96	7.95	7	12
	5	S	25.00	17.84	4.89	97	7.97	10-0	35
		D	24.00	18.51	4.62	91	7.92	8-7	33
	6	S	25.00	17.50	4.95	98	7.90	7-18	38
		D	24.50	18.10	4.76	94	7.83	5-20	35
	7	S	25.40	17.17	4.96	99	7.87	3-10	37
		D	24.60	17.80	4.60	91		5-35	42
	8	S	25.60	16.94	4.99	99	7.80	6	31
		D	25.00	17.37	4.54	90	7.77	7	58
	9	S	26.00	16.18	5.02	100	7.76	3-9	47
		D	25.60	16.58	4.78	95	7.74	5-7	35
	10	S	25.70	15.32	4.98	98	7.74	3	35
		D	25.70	15.63	4.86	96	7.72	7	27
	11	S	26.00	13.15	4.52	87	7.50	3-4	46
		D	25.70	14.52	4.64	90	7.45	3-4	61

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
22- 23.1	12	S	26.10	11.58	4.88	92	7.50	3	46
		D	25.60	13.22	4.39	84	7.43	38	53
	13	S	26.10	10.01	4.94	92	7.50	5-2	46
		D	25.80	12.00	4.37	83	7.47	3-10	75
	14	S	27.20	7.04	5.38	99	7.86	3	0
		D	26.00	8.54	4.72	86	7.70	2	50
	15	S	26.70	5.11	5.09	91	7.49	4-4	42
		D	26.70	5.21	4.94	88	7.46	4-8	48
	16	S	26.70	5.49	5.13	92	7.64	3-5	38
		D	26.70	5.44	4.96	89	7.56	2-10	48
15.11	17	S	23.50	0.44	5.01	81	7.41	3-14	65
		D	26.20	0.45	4.98	96	7.51	5-3	69
	18	S	24.10	0.08	4.93	80	7.65	0-13	3
		18a	S	25.80	0.07	6.47	109	7.57	5-6
	19	S	25.60	0.12	5.33	89	7.81	3-9	71
		D	25.70	0.11	4.67	78	7.77	4-16	83
	20	S	24.40	0.14	4.95	81	7.67	3-11	79
	21	S	23.70	0.11	5.53	89	7.57	3-10	88
		D	23.70	0.11	5.50	89	7.63	2-10	96
	22	S	26.70	0.09	5.70	97	7.48	3-14	110
	23	S	23.80	0.10	5.28	85	7.83	2-8	57
	24	S	22.40	0.12	4.95	79	7.01	2-11	538
	25	S	20.20	0.10	6.40	98	8.01	1-5	23
	26	S	21.80	0.07	5.76	90	7.49	2-32	4
26- 29.11	1	S	23.90	19.05	4.88	97	7.90	8-13	47
		D	23.50	19.40	4.88	96	7.94	10-8	49
	2	S	23.40	18.72	4.85	95	7.96	7	0
		D	23.20	19.06	4.07	80	7.89	5	10
	3	S	22.40	18.82	2.09	40	7.67	26-14	35
		D	22.70	19.02	1.16	23	7.67	23-10	46
	4	S	22.30	19.34	4.95	96	8.02	8	21
		D	21.90	19.58	4.99	96	8.08	5	52
	5	S	22.30	18.73	5.10	98	7.86	10-4	72
		D	22.90	19.02	4.85	95	7.90	10-19	83
	6	S	22.50	19.13	4.67	91	7.94	7-10	13
		D	22.50	19.18	5.14	100	7.94	6-8	62

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
26-29.ii	7	S	23.50	18.70	4.74	93	7.86	10-14	150
		D	23.30	18.86	4.85	95	7.86	8-9	90
	8	S	22.90	18.25	4.77	92	7.79	10	128
		D	22.90	18.28	4.70	91	7.77	11	143
	9	S	23.40	17.94	4.61	90	7.70	13-1	162
		D	23.30	19.01	4.56	90	7.66	7-17	139
	10	S	23.40	17.99			7.72	7	127
		D	23.40	17.94			7.73	7	162
	11	S	23.50	16.84			7.59	5-8	187
		D	23.70	16.55			7.59	5-53	136
	12	S	24.20	13.32			7.48	3	179
		D	24.30	13.83			7.51	7	207
	13	S	24.20	11.25	4.59	84	7.43	4-1	200
		D	24.20	11.45	4.81	88	7.52	3-15	191
	14	S	24.00	8.21	4.88	86	7.44	2	162
		D	22.00	8.46	4.77	82	7.53	3	151
	15	S	24.10	6.37	4.99	87	7.50	2-7	207
		D	24.00	6.44	4.99	87	7.51	2-3	198
	16	S	24.00	6.40	4.95	86	7.53	4-5	190
		D	24.10	6.38	4.95	86	7.52	2-5	183
26-28.iii	1	(m)							
		0	21.50	19.30	5.31	84	8.06	8-3	7
		1	21.00	19.41					
		2	20.60	19.45					
		3	20.50	19.66					
		4	20.40	19.63					
		5	20.30	19.69					
		6	20.30	19.68					
		7	20.20	19.67					
		8	20.30	19.71					
		9	20.20	19.80					
		10	20.30	19.76					
		11	20.30	19.63	5.36	101	8.04	9-5	10
	4	0	22.40	18.09	4.66	89	7.90	8-0	29
		1	21.60	18.54					
		2	21.20	18.53					
		3	21.10	18.60					
		4	20.90	18.71					
		5	21.00	18.93	5.94	112	7.97	10-0	28

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ^o /oo	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 26- 28.iii	6	(m)								
		0	22.50	17.86	4.66	89	7.86	9-3	31	
		1	22.30	17.85						
		2	22.00	17.90						
		3	21.90	17.94						
		4	21.90	17.90						
	8	5	21.80	17.86						
		6	21.70	18.19		4.41	84	7.93	8-14	42
		0	23.40	15.59		4.98	94	7.53	9-1	86
		1	23.40	15.62						
		2	23.30	15.89						
		3	23.30	16.10						
	10	4	23.20	15.77		4.96	94	7.42	9-1	107
		0	24.10	14.20		5.14	97	7.59	4-1	107
		1	24.10	14.21						
		2	23.80	14.27						
		3	23.50	14.42						
		4	23.50	14.56						
		5	23.50	14.46						
		6	23.50							
		7	23.50							
		8	23.50	14.53						
		9	23.60	14.53						
		10	23.60	14.46						
	13	11	23.50	14.68						
		12	23.50	14.91		4.80	90	7.59	3-6	108
		0	24.00	2.02		5.01	83	8.03	3-0	150
		1	23.90	1.99						
		2	23.90	2.06						
		3	23.90	2.24						
		4	23.90	2.98						
		5	24.00	2.94						
		6	24.00	2.98						
		7	24.00	3.26						
		8	23.90	3.20						
		15	9	24.00	3.35		4.74	80	8.00	0-6
0	23.80		0.29		5.71	93	7.86	3-2	89	
1	23.80		0.29							
2	23.80		0.28							
3	23.60		0.31		5.31	86	7.83	4-0	70	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 26- 28.iii	17	(m)							
		0	19.50	0.08	5.46	82		9-5	493
		1	19.90	0.06					
		2	19.80	0.06					
		3	19.50	0.07					
		4	19.50	0.07					
		5	19.50	0.06					
	19	6	19.40	0.06					
		7	19.40	0.07	5.51	83		7-26	522
		0	18.70	0.07	5.68	84		17-11	551
		1	18.70	0.08					
		2	18.70	0.06					
		3	18.70	0.06					
		4	18.60	0.06					
18- 19.iv	17	5	18.60	0.07	5.86	86		12-14	561
		S	18.30	0.06	5.69	84	7.66	12-4	610
	18	D	18.00	0.10	5.69	83	7.28	13-6	632
		S	16.40	0.05	5.24	73	6.79	9-3	395
	18a	S	15.50	0.04	6.06	85	7.28	15-0	492
		D	18.40	0.06	5.84	85	7.28	10-11	626
	19	S	17.50	0.06	2.98	44	7.37	10-15	626
		D	18.40	0.06	6.44	91	7.31	14-10	616
	21	S	16.30	0.06	6.00	85	7.39	15-11	621
		D	16.30	0.06	6.44	110	7.26	14-4	674
	23	S	17.80	0.10	5.24	79	6.66	11-7	513
	24	S	19.40	0.09	6.66	97	7.38	3-7	105
	25	S	18.00	0.07	5.75	84	7.32	15-3	674
	26	S	17.70	0.08					
6- 8.v	1	0	19.40	19.27	5.49	101	8.24	5-0	0
		1	19.40	19.43					
		2	19.60	19.46					
		3	19.60	19.43					
		4	19.60	19.43					
		5	19.70	19.47					
		6	19.70	19.60					
		7	19.60	19.59					
		8	19.50	19.59					
		9	19.50	19.56					
10	19.50	19.67							

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 6- 8.v	1	(m)								
		11	19.40	19.66						
		12	19.40	19.62						
		13	19.40	19.61						
		14	19.30	19.59						
		15	19.30	19.63						
		16	19.30	19.63						
		17	19.30	19.64						
		18	19.20	19.62						
		19	19.20	19.60						
		20	19.20	19.59						
		21	19.20	19.58						
		22	19.20	19.58			5.03	93	8.22	5-0
	4	0	18.90	17.33		5.27	94	8.06	7	26
		1	18.90	17.57						
		2	19.00	18.03						
		3	19.00	17.99						
		4	19.00	18.30						
		5	19.00	18.40						
		6	19.00	18.45						
		7	19.00	18.40						
		8	19.00	18.26						
		9	19.00	18.32						
		10	19.10	18.50						
		11	19.20	18.74						
	6	12	19.20	18.97						
		13	19.20	19.52		5.35	99	8.09	4	7
		0	18.80	15.55		5.14	90	8.16	6-4	69
		1	18.80	15.65						
		2	18.80	16.15						
		3	18.80	16.52						
		4	18.90	17.07						
		5	18.90	17.05						
		6	18.90	16.80						
		7	18.90	17.44						
		8	19.00	17.14						
9		19.00	17.31							
10	19.00	17.04								
11	19.00	17.34								
12	19.00	17.47								

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 6- 8.v	6	(m)								
		13	19.00	17.67						
		14	19.00	17.57						
		15	19.00	17.72	4.92	89	8.15	6-0	28	
		8	0	17.70	11.28	4.66	76	7.89	8	195
			1	17.70	11.11					
			2	17.80	11.62					
			3	17.80	11.49					
			4	17.80	11.50					
			5	17.80	11.81					
			6	17.80	11.75					
			7	17.90	11.77					
			8	17.90	11.75					
			9	18.00	12.53					
			10	18.10	13.31					
	11		18.20	13.44						
	10	12	18.20	14.17	4.93	84	8.10	7	108	
		0	17.60	8.94	5.35	85	8.19	10	196	
		1	17.50	9.19						
		2	17.40	9.32						
		3	17.40	9.29						
		4	17.40	9.09						
		5	17.40	9.42						
		6	17.40	9.67						
		7	17.40	9.36						
		8	17.40	9.41						
		9	17.40	9.83						
		10	17.40	9.69						
	13	11	17.40	10.38						
		12	17.40	10.38	5.01	81	8.03	7	178	
		0	15.40	2.49	6.13	88	8.67	11-0	330	
		1	15.40	2.54						
		2	15.50	2.42						
		3	15.60	2.56						
		4	15.60	4.01						
		5	15.60	3.90						
		6	15.60	4.27						
		7	15.60	4.23						
		8	15.60	4.27	5.80	85	7.89	6-0	370	

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N					
1952 6- 8.v	15	0	14.40	0.07	5.88	81	7.30	13-24	393					
		1	14.40	0.06										
		2	14.30	0.05										
	17	3	14.30	0.05	6.25	85	7.48	4-33	442					
		0	14.00	0.06										
		1	14.10	0.04										
		2	14.10	0.04										
		3	14.00	0.05										
		4	14.00	0.04										
		5	14.00	0.04										
		6	14.00	0.04										
	19	7	14.00	0.04	6.39	87	7.73	1-25	410					
		8	13.90	0.04										
		0	14.40	0.04										
		1	14.20	0.05										
		2	14.20	0.04										
		3	14.20	0.03										
		4	14.20	0.03										
		5	14.20	0.03										
		6	14.20	0.03										
7		14.20	0.03											
8		14.20	0.04											
6.vi	17	9	14.10	0.03	6.78	93	7.30	7-11	430					
		10	14.00	0.04										
		11	14.00	0.04										
		12	14.00	0.05										
		13	14.00	0.04										
		14	14.00	0.04										
		15	14.00	0.04										
		16	14.00	0.04										
		17	14.00	0.04										
		18	14.00	0.04										
6.vi	18	19	13.90	0.04	6.75	91	7.77	4-19	550					
		S	11.60	0.05						7.58	98	7.54	8-16	355
		D	10.80	0.05										
S	12.20	0.04	7.55	96	7.49	7-18	380							
S	12.20	0.04						7.15	94	7.37	2-1	460		

Location: HAWKESBURY RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 6.vi	18a	S	12.60	0.04	7.78	103	7.53	1-1	543
	19	S	11.10	0.05	7.39	95	7.52	10-14	385
		D	11.00	0.05	7.30	93	7.49	7-30	506
	21	S	10.90	0.05	7.64	97	7.49	0-24	296
		D	10.90	0.04	7.66	97	7.48	8-11	309
	23	S	10.00	0.07	7.35	91	7.47	7-16	268
	24	S	11.30	0.07	6.49	84	7.29	0-4	892
	25	S	11.60	0.31	7.72	100	7.48	0-4	20
	26	S	10.60	0.24	7.42	94	7.73	3-1	331

HAWKESBURY RIVER

PUMPKIN POINT SECTION - HIGH WATER

Location:

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952		(m)							
14. vii	2	0	13.00	12.12					
		2	12.90	12.08					
		4	12.90	12.19					
		6	13.00	13.00					
		8	13.10	13.02					
		10	13.10	13.03					
		12	13.20	13.28					
	3	0	13.20	12.09					
		1	13.30	12.07					
		2	13.20	12.19					
		3	13.20	12.59					
		4	13.20	12.53					
		5	13.20	12.67					
		6	13.30	12.83					
		7	13.30	13.01					
		8	13.40	13.08					
		9	13.40	13.00					
		10	13.40	13.21					
		11	13.40	13.20					
		12	13.40	13.22					
		13	13.40	13.23					
		14	13.40	13.29					
		15	13.50	13.62					
		16	13.50	13.58					
	4	0	12.90	10.01					
		2	12.90	11.27					
		4	12.90	12.02					
		6	13.20	12.93					
		8	13.20	13.04					
		10	13.20	13.27					
		12	13.20	13.34					
	5	0	12.60	9.62					
		2	12.60	10.95					
	6	0	13.00	11.82					

HAWKESBURY RIVER

PUMPKIN POINT SECTION - HIGH WATER

Location:

Date	Station	Depth	Temp. °C.	Cl °/oo	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 15. vii	3	(m)							
		0	12.60	10.53					
		1	12.60	11.45					
		2	12.70	11.46					
		3	12.70	10.96					
		4	13.00	12.35					
		5	13.20	12.68					
		6	13.20	12.51					
		7	13.30	13.04					
		8	13.30	13.02					
		9	13.40	13.24					
		10	13.40	13.54					
		11	13.40	13.40					
		12	13.40	13.48					
13	13.40	13.52							
14	13.50	13.59							
26. viii	1	0	14.20	6.01					
		2	14.20	5.87					
		4	14.90	9.09					
		2	0	14.40	6.39				
	2	2	14.80	7.58					
		4	15.30	9.07					
		6	15.40	11.07					
		8	15.40	11.14					
		10	15.60	11.37					
		12	15.60	11.27					
		14	15.60	11.68					
		16	15.60	11.94					
	3	0	13.10	2.99					
		1	13.60	4.24					
		2	13.90	4.92					
		3	14.10	6.22					
		4	14.40	7.37					
		5	14.70	8.49					
6		15.10	9.53						
7		15.20	10.09						
8		13.70	10.97						
9	14.30	10.26							

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - HIGH WATER

Date	Station	Depth	Temp. °C.	Cl ^o / _{oo}	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 26. viii	3	(m)							
		10	14.60	11.12					
		11	15.70	11.63					
		12	15.70	11.70					
		13	15.70	11.66					
		14	15.80	11.96					
		15	15.80	12.02					
		16	15.80	11.98					
	4	0	13.60	3.39					
		2	14.00	5.69					
		4	14.80	8.16					
		6	15.20	9.92					
		8	15.20	10.29					
		10	15.40	11.04					
	5	0	13.80	4.14					
		2	14.00	5.92					
24. ix	1	0	17.20	12.22					
		2	17.10	12.44					
	2	0	17.20	11.33					
		2	17.10	12.51					
	4	4	17.10	12.70					
		6	17.00	12.81					
		8	17.00	13.09					
		10	17.10	13.19					
		12	17.10	13.50					
		3	0	17.50	11.81				
	1		17.50	12.04					
	2		17.40	12.25					
3	17.20		12.17						
4	17.20		12.53						
5	17.10		12.52						
6	17.10		12.66						
7	17.00		12.70						
8	17.00		12.81						
9	17.00		13.07						
10	17.00	13.31							
11	17.20	12.80							
12	17.00	13.36							

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - HIGH WATER

Date	Station	Depth (m)	Temp. °C	Cl ‰	O ₁	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 24. ix	3	13	17.00	13.23						
		14	17.00	13.35						
		15	17.00	13.50						
		16	17.00	13.56						
	4	0	17.40	12.12						
		2	17.20	12.57						
		4	17.11	12.72						
		6	17.10	12.68						
		8	17.10	12.80						
		10	17.10	12.82						
	5	0	17.20	12.22						
		2	17.10	12.28						
	21. x	1	0	19.50	13.04					
			2	19.40	13.02					
4			19.40	13.04						
6			19.50	13.00						
8			19.40	13.01						
10			19.40	13.08						
2		0	19.50	13.21						
		2	19.40	13.25						
		4	19.40	13.29						
		6	19.40	13.40						
		8	19.30	13.88						
		10	19.30	13.81						
3		12	19.20	14.07						
		14	19.10	14.14						
		0	19.70	13.55						
		1	19.20	13.54						
		2	19.60	13.55						
		3	19.50	13.53						
		4	19.50	13.59						
		5	19.50	13.70						
		6	19.40	13.78						
		7	19.20	14.15						
8	19.20	14.19								
9	19.20	14.17								
10	19.20	14.18								
11	19.20	14.22								

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - HIGH WATER

Date	Station	Depth	Temp. °C.	Cl /‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 21.x	3	(m)								
		12	19.20	14.21						
		13	19.20	14.23						
		14	19.20	14.23						
		15	19.20	14.37						
		16	19.10	14.36						
	4	0	19.40	13.63						
		2	19.40	13.75						
		4	19.30	13.82						
		6	19.30	13.90						
		8	19.30	13.85						
		10	19.20	13.89						
	5	0	19.50	13.68						
	18.xi	1	0	21.20	14.06					
			2	21.10	14.13					
			4	21.00	14.10					
6			21.00	14.30						
8			20.90	14.48						
10			20.90	14.60						
2		12	20.90	14.83						
		0	21.20	14.09						
		2	21.00	14.27						
		4	21.00	14.30						
		6	21.00	14.41						
		8	20.90	14.67						
3		10	20.90	14.92						
		12	20.80	15.02						
		14	20.80	15.28						
		0	21.20	14.17						
		1	21.00	14.25						
		2	21.00	14.37						
		3	20.90	14.40						
		4	21.00							
	5	21.00	14.48							
	6	21.00	14.55							
7	21.00	14.62								
8	21.00	14.67								
9	20.90	14.73								
10	20.90	14.72								

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - HIGH WATER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952 18. xi	3	(m)								
		11	20.90	14.98						
		12	20.80	15.02						
		13	20.80	15.18						
		14	20.80	15.15						
		15	20.80	15.24						
	4	16	20.80	15.25						
		0	21.30	14.56						
		2	21.20	14.64						
		4	21.20	14.72						
		6	21.10	14.80						
		8	21.00	14.98						
		5	0	21.30	14.53					
			2	21.20	14.74					
15. xi	1	0	22.00	13.06						
		2	22.00	13.29						
		4	22.00	13.40						
		6	22.00	13.87						
	2	8	22.00	14.14						
		0	22.00	13.63						
		2	22.00	13.59						
		4	22.00	13.67						
		6	21.90	14.00						
		8	21.80	14.16						
	3	10	21.80	14.26						
		12	21.80	14.51						
		14	21.80	14.38						
		0	22.10	13.08						
		1	22.10	13.12						
		2	22.00	13.44						
		3	22.20	13.59						
		4	21.90	13.73						
		5	22.00	13.79						
		6	22.00	13.93						
7	21.90	14.09								
8	21.90	14.12								
9	21.90	14.31								
10	21.80	14.31								

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - HIGH WATER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 15. xii	3	(m)							
		11	21.80	14.28					
		12	21.90	14.39					
		13	21.90	14.51					
		14	21.90	14.47					
		15	21.90	14.52					
	4	16	21.80	14.56					
		0	21.90	14.36					
		2	21.90	14.36					
		4	21.90	14.43					
		6	21.80	14.54					
		7	21.80	14.48					
	5	8	21.80	14.46					
		0	22.20	14.27					

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth	Temp. °C.	Cl ⁻ ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 14. vii	3	(m)							
		0	11.70	8.39					
		1	12.20	8.32					
		2	12.40	9.79					
		3	12.40	10.01					
		4	12.50	10.13					
		5	12.60	10.15					
		6	12.60	10.37					
		7	12.60	10.37					
		8	12.60	10.29					
		9	12.70	10.30					
		10	12.70	10.63					
		11	12.80	11.11					
		12	12.90	11.60					
		13	12.90	11.35					
15. vii	2	0	11.40	6.92					
		2	11.40	8.44					
		4	12.20	9.42					
		6	12.20	10.56					
		8	12.30	11.06					
		10	12.80	11.72					
	3	12	13.00	12.50					
		0	11.70	6.72					
		1	11.80	7.43					
		2	11.80	7.96					
		3	12.00	8.08					
		4	12.50	9.69					
		5	12.60	10.69					
		6	12.80	10.70					
	7	12.80	10.74						
	8	12.80	11.05						
	9	12.90	11.16						
	10	13.00	12.12						
	11	13.10	12.52						
	12	13.30	12.86						
	13	13.50	13.30						
	14	13.40	13.26						

HAWKESBURY RIVER

Location: PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth	Temp. °C.	Cl /‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 15. vii	4	(m)								
		0	11.60	6.92						
		2	11.60	7.20						
		4	12.40	9.90						
		6	12.50	10.68						
		8	12.60	10.91						
		10	12.60	11.34						
		5	0	11.70	6.89					
			1	11.60	6.89					
		26. viii	1	0	12.80	1.42				
2	13.10			2.10						
4	13.40			3.08						
6	14.00			5.10						
8	14.40			6.48						
10	14.80			7.98						
12	14.80			9.40						
14	14.80			11.67						
2	0			12.70	1.41					
	2			13.10	1.96					
	4			13.20	2.98					
	6			13.80	4.76					
	8			14.20	5.31					
	10			14.40	6.84					
3	12	14.80	7.13							
	14	15.80	11.90							
	0	13.00	1.58							
	1	13.00	1.65							
	2	13.50	3.13							
	3	13.60	3.62							
	4	13.70	3.08							
	5	14.00	4.77							
	6	14.20	5.28							
	7	14.30	5.04							
	8	14.40	5.99							
	9	14.50	6.06							
10	14.60	7.36								
11	15.00	8.13								
12	15.70	10.94								

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 26. viii	3	(m)								
		13	15.80	11.47						
		14	16.00	12.12						
	4	15	16.00	12.30						
		0	12.70	1.52						
		2	12.80	1.56						
		4	13.80	3.98						
		6	13.80	5.36						
		8	14.30	6.66						
	5	10	14.20	6.39						
		0	12.30	1.93						
		2	12.80	1.65						
		4	13.10	1.82						
	24. ix	1	6	13.90	5.58					
			0	16.00	6.97					
2			16.60	7.75						
2		4	16.70	9.07						
		0	16.20	6.37						
		2	16.70	8.11						
3		4	16.70	8.66						
		6	16.80	8.73						
		8	16.80	9.17						
		10	17.00	9.80						
		0	16.20	6.94						
		1	16.20	6.83						
3		2	16.60	7.26						
		3	16.70	7.88						
		4	16.70	7.80						
	5	16.80	8.61							
	6	16.90	9.05							
	7	16.90	9.17							
	8	16.90	8.86							
	9	17.00	9.49							
	10	17.00	9.82							
	11	17.00	9.46							
3	12	17.00	10.08							
	13	17.00	10.25							
	14	17.00	10.88							
	15	17.10	10.91							

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth (m)	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952	24. ix	4	0	16.20	7.97					
			2	16.40	6.94					
			4	16.40	7.01					
			6	16.50	6.57					
			8	16.90	9.14					
		5	0	16.30	6.68					
	20. x	1	0	19.70	9.70					
			2	19.70	9.73					
			4	19.70	9.96					
			6	19.50	10.23					
			8	19.40	10.96					
		2	0	19.70	9.73					
			2	19.70	9.83					
			4	19.70	10.10					
			6	19.50	10.29					
			8	19.40	10.63					
		3	10	19.50	11.41					
			0	19.60	9.61					
			1	19.60	9.61					
			2	19.60	9.56					
3			19.60	9.57						
4			19.60	9.55						
5			19.50	9.58						
6			19.50	9.86						
7			19.40	10.10						
8			19.40	10.40						
4	9	19.40	10.45							
	10	19.30	10.67							
	11	19.30	10.88							
	12	19.30	11.08							
	13	19.30	11.15							
	14	19.30	11.46							
	15	19.30	11.45							
	0	19.60	9.71							
	2	19.60	9.76							
	4	19.60	9.77							
	6	19.50	9.80							
	8	19.50	9.92							

HAWKESBURY RIVER

Location: PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952		(m)							
20.x	5	0	19.60	9.70					
17.xi	1	0	21.80	11.00					
		2	21.70	11.04					
		4	21.70	11.11					
		6	21.60	11.31					
	2	8	21.60	11.82					
		0	21.60	10.92					
		2	21.60	10.91					
		4	21.60	11.08					
		6	21.60	11.22					
		8	21.50	11.45					
	3	10	21.40	11.59					
		12	21.40	11.77					
		0	21.80	10.93					
		1	21.80	10.94					
2		21.80	10.89						
3		21.70	10.98						
4		21.70	10.99						
5		21.60	11.05						
6		21.60	11.22						
7		21.50	11.44						
4	8	21.60	11.47						
	9	21.70	11.55						
	10	21.60	11.60						
	11	21.50	11.84						
	12	21.40	12.01						
	13	21.40	12.01						
	14	21.40	12.19						
	0	21.80	10.86						
5	2	21.80	10.87						
	4	21.80	10.90						
	0	21.70	10.89						

HAWKESBURY RIVER

Location:

PUMPKIN POINT SECTION - LOW WATER

Date	Station	Depth	Temp. °C.	Cl ⁻ /∞	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 16. xii	1	(m)								
		0	22.20	14.43						
		2	22.20	14.51						
		4	22.20	14.44						
		6	22.20	14.59						
		8	22.20	14.63						
		10	22.30	14.61						
		2	0	22.20	14.01					
			2	22.20	14.03					
			4	22.20	14.06					
	6		22.20	14.05						
	8		22.10	14.11						
	10		22.20	14.15						
	12		22.20	14.18						
	3	14	22.20	14.22						
		0	21.90	14.55						
		1	22.00	14.56						
		2	22.00	14.59						
		3	22.00	14.60						
		4	22.05	14.60						
		5	22.00	14.59						
		6	22.00	14.63						
		7	22.00	14.62						
		8	22.00	14.66						
		9	21.90	14.73						
		10	21.90	14.76						
		11	21.90	14.80						
		12	21.90	14.82						
		13	21.90	14.82						
		14	21.90	14.86						
		15	22.00	14.83						
	16	22.00	14.89							
	4	0	22.30	14.41						
		2	22.00	14.41						
		4	22.00	14.44						
		6	21.90	14.45						
		8	21.90	14.44						
	5	0	22.20	14.40						

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 15- 17.1	1	S	20.40	19.76	5.50	104	8.22		
		D	16.90	19.62	4.24	75	8.23	3-14	9
	2	S	21.60	19.68	5.47	105	8.15	19-4	76
		D	21.40	19.70	5.43	104	8.15	7	0
	3	S	20.60	19.64	5.58	105	8.21	3	0
		D	20.60	19.71	5.67	107	8.20	7	0
	4	S	21.80	19.71	4.90	94	8.07	3	0
		D	21.80	19.66	4.79	92	8.07	3-20	0
	5	S	21.80	19.78	4.86	94	8.10	5-13	0
		D	21.70	19.78	5.00	96	8.11	4	0
	6	S	21.60	19.79	4.76	92	8.07	2	0
		D	21.70	19.80	4.72	91	8.05	7	9
	7	S	21.50	19.82	4.23	81	8.05	13	11
		D	21.60	19.81	4.35	84	8.05	7-18	19
	8	S	23.20	19.76	4.37	86	8.01	8-25	20
		D	23.20	19.82	4.37	86	7.97	9	26
	9	S	22.80	19.70	4.10	81	7.94	7	32
		D	22.70	19.71	4.13	81	7.92	7-14	30
	10	S	23.10	19.40	4.02	79	7.88	6-17	35
		D	23.00	19.41	3.99	78	7.87	5	28
	11	S	23.40	18.69	3.89	76	7.86	6	21
D		23.20	18.66	3.86	75	7.80	5-25	40	
12	S	24.00	17.02	4.21	82	7.74	7-38	176	
	D	23.90	17.08	4.13	80	7.72	3	72	
13	S	25.80	0.36	5.01	84	7.71	7	48	
	S	25.20	12.51	5.10	96	8.52	2-13	9	
16	S	25.00	11.33	5.06	94	7.73	2-16	48	
	D	25.00	11.53	5.39	100	7.08	2-25	270	
17	S	25.70	8.82	4.41	81	7.25	2-27	239	
	S	25.80	1.02	4.07	69	7.18	1-32	374	
19	S	24.60	4.42	2.75	47	7.82	3-60	652	
	S	25.90	0.53	3.96	67	7.34	48-65	609	
13- 14.11	1	S	21.10	19.51	5.05	96	8.02	2-23	61
		D	21.00	19.65	5.22	99	8.19	3-14	0
	2	S	22.20	19.82	5.26	102	8.21	3-12	0
		D	21.80	19.84	4.22	81	8.08	7	0
						8.00	7	0	

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl %/oo	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
13-14.11	3	S	20.80	19.75	5.22	99	8.16	3	0
		D	20.60		5.22		8.15	5	0
	4	S	21.80	19.83	5.10	98	7.94	9-21	0
		D	21.80	20.02	4.18	81	7.92	10-19	0
	5	S	21.40	19.88	4.75	91	7.97	12	0
		D	21.30	19.93	4.75	91	7.99	12	0
	6	S	21.90	19.97	4.38	85	7.98	14	0
		D	21.80	19.97	4.38	85	7.95	13	0
	7	S	22.40	20.14	4.26	84	7.95	13-15	11
		D	22.20	20.04	4.26	83	7.98	13-12	13
	8	S	22.90	20.07	4.12	81	7.89	13	34
		D	22.80	20.12	4.08	80	7.87	13	26
	9	S	22.40	20.17	3.92	77	7.85	10-17	16
		D	22.40	20.08	3.92	77	7.83	11-12	25
	10	S	22.80	20.06	3.89	77	7.79	8	24
		D	22.80	20.04	4.02	79	7.75	7	9
	11	S	23.00	19.79	3.92	77	7.74	6	25
		D	23.10	19.75	3.84	76	7.74	7	20
	12	S	23.60	18.72	3.89	77	7.66	6	18
		D	23.20	18.87	3.79	74	7.69	5	14
	13	S	22.50	0.84	5.93	95	7.86	8-7	3
	15	S	23.60	14.31	4.22	79	7.13	19-4	22
	16	S	23.70	13.29	3.89	73	7.19	8-11	42
		D	23.50		3.89		7.30	14-13	39
	17	S	24.20	10.69	3.84	70	7.05	17-12	103
	18	S	23.80	1.33	5.33	88	7.73	18-65	52
	19	S	23.60	6.47	2.45	42	7.15	83-10	99
	21	S	24.20	0.51	3.57	58	7.75	4-9	3
6-7.111	1	S	22.00	19.74	5.36	123	8.09	4-13	26
		D	21.90	19.75	5.86	113	8.10	6-11	4
	2	S	22.80	19.79	5.16	101	8.08	7	5
		D	22.40	19.80	5.09	99	8.09	3	5
	3	S	23.40	19.74	6.27	124	8.19	4	5
		D	23.40	19.75	6.48	128	8.17	11	5
	4	S	22.40	19.71	5.35	104	8.07	8-12	8
		D	22.30	19.84	5.09	99	8.05	8-12	3
	5	S	22.60	19.88	5.67	111	8.09	7	3
		D	22.50	19.94	5.60	110	8.09	5	3

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 6-	6	S	22.40	19.86	5.09	99	8.11	8	8
		D	22.50	19.94	5.09	100	8.09	4	12
7.iii	7	S	22.40	19.82	4.82	94	7.93	7-13	9
		D	22.50	19.81	4.48	88	7.95	3-31	25
	8	S	23.70	19.80	4.55	91	7.87	5	5
		D	23.60	19.92	4.45	89	7.82	5	9
	10	S	22.40	19.83	4.83	94	7.80	3	16
		D	22.80	19.78	4.80	94	7.90	3	33
	12	S	23.20	18.21	4.80	93	7.80	2	76
		D	23.30	18.03	4.80	93	7.82	2	113
	13	S	23.20	0.14	5.82	93	7.13	0-6	36
	15	S	23.10	14.27	3.65	68	6.88	5-5	61
	16	S	23.50	11.09	4.48	81	7.18	3-22	768
		D	25.40	11.47	4.23	79	7.24	3-7	805
	17	S	23.50	9.59	6.38	114	7.43	1-31	1000
	18	S	21.90	0.41	4.91	77	7.22	4-19	33
	19	S	24.00	6.82	2.75	48	6.88	16-29	1084
	21	S	23.00	0.40	4.52	72	7.64	2-14	5
9.iv	1	S	20.30	19.59	5.20	98	8.10	7-8	11
		D	19.60	19.62	4.79	89	8.11	9-7	32
	2	S	20.90	19.47	5.17	98	8.05	7	11
		D	20.20	19.58	4.98	95	8.09	9	11
	3	S	20.40	19.62	5.10	96	8.12	7	9
		D	20.20	19.63	5.10	96	8.11	9	9
	4	S	21.90	19.43	5.24	101	8.04	5-17	5
		D	20.40	19.56	5.00	94	8.07	5-13	10
	5	S	21.20	19.53	5.03	96	8.03	7	4
		D	21.20	19.57	5.17	98	8.03	7	5
	6	S	21.20	19.49	4.87	93	8.03	5	5
		D	21.20	19.55	4.87	93	8.02	5	7
	7	S	21.40	19.50	4.93	94	8.05	4-11	15
		D	21.10	19.49	5.03	95	8.04	9-10	21
	8	S	21.30	19.41	4.87	93	8.03	7	14
		D	21.20	19.42	4.77	91	8.03	13	26

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 17. iv	13	S	19.00	0.41	5.47	82	7.44	15-0	5
	15	S	18.40	0.32	4.98	73	7.59	8-0	17
	16	S	19.50	0.26	4.26	64	7.04	33-5	936
		D	19.40	0.25	4.52	68	7.01	36-6	990
	17	S	19.20	0.24	4.32	65	6.65	44-0	1190
	18	S	18.50	0.10	4.96	73	7.46	10-0	35
	19	S	19.10	0.18	3.07	46	6.86	22-18	1336
	21	S	18.60	0.06	3.87	57	6.52	14-0	124
8- 9. v	1	S	17.60	19.53	4.62	83	8.29	12-11	68
		D	17.80	19.73	5.75	104	8.22	3-2	13
	2	S	17.60	18.66	5.84	104	8.19	2	17
		D	18.10	19.43	4.62	84	8.29	9	46
	3	S	18.40	18.95	5.59	101	8.18	5	8
		D	18.20	19.01	5.52	99	8.12	5	8
	4	S	17.30	18.44	5.59	99	8.21	5-18	20
		D	18.60	19.21	4.86	89	8.16	12-30	17
	5	S	17.50	17.98	5.30	93	8.30	7	40
		D	18.40	18.91	5.00	90	8.12	8	15
	6	S	17.60	18.01	5.35	94	8.04	11	42
		D	17.70	18.40	5.23	93	8.25	7	21
	7	S	16.50	17.19	5.23	90	8.03	5-7	58
		D	17.60	17.83	5.10	90	7.92	6-16	43
	8	S	17.40	16.03	5.52	95	8.13	9	129
		D	17.90	17.48	5.42	95	8.12	18	81
16. v	10	S	16.80	10.31	5.25	84	7.28	3	161
		D	16.90	10.20	5.33	85	7.50	13	194
	12	S	16.40	2.15	4.91	70	7.95	15	298
		D	16.40	2.12	4.81	69	7.61	15	279
2. vi	1	S	15.20	19.41	5.51	95	8.18	4	24
		D	16.00	19.34	5.86	102	8.19	12	29
	2	S	15.20	19.48	5.61	97	8.17	13	22
		D	12.40	19.49	5.57	91	8.23	10	20
	3	S	11.60	18.71	5.98	96	8.19	8	21
		D	11.60	18.70	6.00	96	8.19	12	11

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 2. vi	4	S	14.20	19.47	5.68	96	8.16	7-8	0	
		D	13.20	19.49	5.71	95	8.22	11-10	27	
	5	S	14.00	19.40	5.71	96	8.19	7	64	
		D	13.90	19.38	5.83	98	8.20	5	39	
	6	S	14.00	18.41	5.91	99	8.13	5	29	
		D	14.00	18.40	5.89	98	8.16	7	60	
	7	S	12.00	18.40	6.60	106	8.24	4-14	26	
		D	12.00	18.38	6.67	107	8.16	7-39	52	
	8	S	12.00	18.02	5.98	96	8.15	5	35	
		D	11.90	18.21	5.83	93	8.15	5	21	
	3. vi	10	S	11.60	13.93	6.90	104	7.22	3-12	112
			D	11.70	13.90	6.98	106	7.74	3-56	97
		12	S	12.20	7.95	6.65	95	7.94	3-24	428
			D	12.90	7.73	6.61	95	7.86	4-34	479
		16	S	12.50	1.45	5.59	75	8.03	28-14	718
			D	12.40	1.62	5.63	75	7.80	25-22	718
7. vii	1	S	12.90	19.10	5.61	92	8.22	13-3	28	
		D	12.40	19.49	6.10	100	8.22	13-9	30	
	2	S	13.80	19.43	6.00	101	8.19	12	28	
		D	14.00	19.36	6.06	102	8.20	11	46	
	3	S	10.40	18.74	6.72	105	8.26	10	23	
		D	10.60	18.69	6.82	107	8.23	7	27	
	4	S	11.40	19.06	6.39	102	8.25	6-19	41	
		D	12.30	19.03	6.45	105	8.23	11-54	45	
	5	S	12.40	19.09	6.20	101	8.22	8	34	
		D	13.10	19.06	6.26	103	8.20	10	40	
	6	S	10.80	17.84	6.45	100	8.23	8	71	
		D	13.60	17.77	6.50	107	8.18	7	103	
	7	S	10.40	17.33	6.62	101	8.18	8-11	100	
		D	10.80	17.83	6.82	106	8.16	9-13	61	
	8	S	10.10	16.92	6.72	102	8.19	86	124	
		D	10.50	17.43	6.58	101	8.20	12	89	

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 8.vii	10	S	10.10	15.44	6.62	99	8.03	0-8	103	
		D	10.00	15.59	6.30	94	8.11	10-9	103	
	12	S	9.60	8.55	6.82	93	8.18	2-7	293	
		D	9.60	8.51	6.80	92	8.08	4-13	285	
	16	S	10.10	0.71	6.00	75	8.08	22-10	555	
		D	10.20	0.57	6.06	76	7.77	21-11	560	
18.ix	1	S	15.90	19.45	5.27	92	8.08	15-3	34	
		D	15.10	19.53	4.83	83	8.13	20-2	66	
	2	S	15.60	18.85	5.67	98	8.15	8-11	10	
		D	15.40	19.00	5.56	96	8.16	6-13	4	
	3	S	15.80	19.00	5.53	96	8.17	5	2	
		D	15.60	19.07	5.70	98	8.18	6	6	
	4	S	16.00	19.02	5.87	102	8.16	3-14	2	
		D	15.40	19.24	5.76	99	8.17	8-11	2	
	5	S	16.40	18.99	5.98	105	8.16	3	0	
		D	15.40	19.01	6.04	104	8.20	3	0	
	6	S	16.20	18.20	5.65	98	8.16	4	2	
		D	15.90	18.19	5.58	96	8.15	3	2	
	7	S	16.30	17.81	5.58	96	8.15	3-15	3	
		D	16.20	17.77	5.62	97	8.13	3-8	0	
	8	S	16.20	17.36	5.65	96	8.13	3	6	
		D	16.10	17.75	5.65	97	8.10	3	15	
	10	S	17.00	12.23	5.22	86	8.13	3-13	11	
		D	16.70	12.38	5.90	96	8.13	1-17	11	
	12	S	16.90	4.74	5.90	86	8.12	1-12	202	
		D	16.80	4.69	5.98	90	7.93	3-11	204	
	28- 29.x	1	S	19.40	18.53	5.96	109	8.11	7-10	2
			D	16.20	19.41	5.16	90	8.14	13-0	69
		2	S	20.80	18.19	5.39	101	8.08	12	4
			D	21.40	18.64	4.95	94	8.06	13	18
3		S	19.30	18.98	5.36	99	8.11	17	9	
		D	18.50	19.06	6.65	121	8.17	8	17	
4		S	20.20	18.17	5.36	99	8.06	9-5	8	
		D	17.90	18.84	5.85	105	8.11	8-0	0	
5		S	20.10	18.10	5.19	96	8.03	12	8	
		D	18.00	18.97	5.39	97	8.08	10	5	

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952 28- 29. x	6	S	19.40	18.13	5.35	98	8.03	7	22	
		D	19.20	18.08	4.91	89	8.04	6	21	
	7	S	20.30	17.58	4.97	92	8.01	13-10	9	
		D	19.50	18.00	4.91	90	8.03	11-8	4	
	8	S	20.90	17.08	5.09	94	7.91	10	14	
		D	19.10	18.22	4.63	84	8.00	7	13	
	10	S	20.50	11.62	4.68	81		8-11	230	
		D	20.30	11.83	4.80	83		17-0	234	
	12	S	20.50	2.92	4.83	76		19-15	446	
		D	20.70	2.94	4.83	76		16-20	450	
	16	S	20.50	0.39	5.19	80		12-18	375	
		D	20.60	0.31	5.25	81		9-18	361	
	3- 4. x11	1	S	20.60	19.50	4.97	94	8.15	6-9	0
			D	16.20	19.57	4.39	77	8.16	15-8	43
2		S	22.00	19.20	5.18	100	8.11	6	0	
		D	18.70	19.58	5.37	99	8.16	9	1	
3		S	22.20	19.31	5.71	110	8.15	6	0	
		D	22.10	19.31	5.99	116	8.18	6	0	
4		S	23.00	18.77	5.48	107	8.09	6-17	0	
		D	21.60	19.24	4.28	82	8.07	6-21	0	
5		S	22.80	19.08	5.69	111	8.10	4	0	
		D	22.00	19.14	5.21	100	8.12	2	0	
6		S	22.60	19.10	4.95	96	8.08	6	0	
		D	22.20	19.18	4.86	94	8.11	5	0	
7		S	23.00	18.93	4.86	95	8.06	6-9	0	
		D	22.20	19.05	4.70	91	8.07	8-4	0	
8		S	23.00	18.92	4.75	93	8.09	6	0	
		D	22.20	19.04	4.81	93	8.09	5	0	
10	S	25.70	16.13	4.93	97	7.86	2-14	0		
	D	25.80	16.44	4.35	86	7.90	3-20	0		
12	S	25.60	9.21	4.25	78	7.45	5-5	61		
	D	25.60	9.37	4.33	80	7.40	3-7	49		
16	S	25.40	2.17	5.22	89	7.89	4-16	200		
	D	25.40	2.07	4.99	85	8.00	4-13	199		

Location: SHELL POINT MARSH

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
10. i	6	S	23.60	25.74	5.19	111	8.68	6-21	4
	9	S	23.80	26.07	5.22	112	8.68	7-34	12
23. vi	6	S	9.30	10.99	6.34	88	7.97	2-27	8
	9	D	10.20	10.68	8.01	113		0-71	0
28. xi	6	S	21.20	20.61	5.42	105	8.25	2-32-2	0
	9	S	23.10	21.67	4.75	96	8.24	6-68-0	4

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952 3.1	1	S	21.70	19.72	5.51	106	8.22	2-21-4	6	
		D	17.75	19.64	5.00	90	8.11	8-20-0	12	
	4	S	23.30	19.80	5.37	106	8.11	3-9-3	3	
		D	20.20	19.77	1.85	35	8.06	46-19	22	
	6	S	23.20	19.78	5.25	104	8.05	3-7-3	3	
		D	20.90	19.74	4.17	79	8.00	11-6-0	11	
	8	S	26.30	18.67	3.92	80	7.82	0-7-1	3	
		D	23.00	19.20	1.76	34	7.52	3-9-1	22	
	10.1	4	S	23.00	19.73	5.34	105	8.09	7-9	4
			D	20.40	19.70	4.24	80	8.08	15-2	19
	14.1	4	S	23.20	17.68	4.96	96	8.05	7-6	6
			D	20.40	19.73	0.95	18	7.85	77-23	19
6		S	23.00	19.71	5.19	102	8.09	8-6	0	
		D	21.20	19.69	3.42	65	8.02	22-9	8	
8		S	26.00	18.32	4.03	82	7.79	7-9	0	
		D	25.40	18.66	3.80	77	7.78	3-7	2	
16.1	1	S	20.70	19.62	5.50	104	8.24	3-17-2	0	
		D	20.80	19.62	5.40	102	8.21	3-63	0	
21.1	4	S	23.30	19.73	5.16	102	8.24	9-5-0	4	
		D	21.10	19.69	3.66	70	8.13	27-0-0	11	
29.1	4	S	22.80	19.70	5.10	100	8.07	7-13-0	0	
		D	21.50	19.69	3.25	62	7.96	31-5-8	20	
	6	S	23.20	19.76	5.10	101	8.10	4-19-0	2	
		D	21.80	19.72	4.05	78	7.96	13-29	2	
	8	S	25.20	19.41	3.67	75	7.95	3-14-0	0	
		D	24.70	19.48	3.58	72	7.83	2-12-0	41	
31.1	1	S	21.80	19.72	5.14	99	8.22	13-1-0	4	
		D	21.20	19.72	5.50	105	8.23	10-4-0	4	

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 8.11	4	S	23.80	19.86	4.94	99	8.03	7-3-0	4
		D	21.90	18.78	3.11	59	7.98	32-106	36
12.11	4	S	22.90	19.85	4.72	93	8.07	6-6-5	0
		D	21.90	19.87	3.32	64	8.03	23-0-3	9
	6	S	23.40	19.84	4.81	96	8.03	6-2-2	0
		D	22.20	19.87	4.45	87	8.07	10-4-7	0
	8	S	25.00	19.71	3.51	71	7.83	0-8-4	24
		D	25.10	19.78	3.43	70	7.75	3-0-3	6
14.11	1	S	21.40	19.78	5.58	107	8.16	3-11-0	0
		D	21.40	19.73	5.62	108	8.15	3-19-0	2
20.11	4	S	22.40	20.03	4.38	86	8.07	11-11	4
		D	21.60	19.85	4.60	89	8.08	10-7-5	0
25.11	4	S	22.20	19.84	4.80	93	8.11	7-5-0	0
		D	21.50	19.83			8.13	8-14-4	5
	6	S	22.50	19.90	5.16	101	8.11	10-32	0
		D	22.00	19.82	5.10	99	8.13	7-35	0
	8	S	23.40	19.74	4.11	81	7.79	7-12-0	13
		D	23.20	19.90	4.07	80	7.86	2-20-0	3
5.111	4	S	22.20	19.80	5.08	99	8.10	5-6-0	16
		D	21.60	19.84	4.60	89	8.11	9-7-2	9
11.111	4	S	23.50	19.80	5.33	106	8.31	9-5-15	8
		D	21.90	19.74	2.92	56	8.16	26-10	104
	6	S	23.30	19.86	5.04	100	8.27	9-12-0	4
		D	22.20	19.77	4.13	80	8.27	14-13	11
	8	S	26.70	17.76	4.36	90	8.16	2-13-2	0
		D	25.00	18.84	4.21	85	8.12	2-12-7	0
13.111	1	S	18.50	19.70	5.22	95	8.17	8-20-0	0
		D	17.80	19.66	5.01	91	8.19	7-11-6	40

Location: PORT HACKING

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 20.111	4	S	22.80	19.83	5.49	108	8.09		0
		D	21.50	19.74	3.68	71	8.06		5
24.111	4	S	22.00	18.24	4.91	93	8.09	6-2-4	5
		D	21.50	19.76	2.50	48	8.03	31-72	13
	6	S	22.10	19.22	4.95	95	8.03	7-47	7
		D	21.50	19.81	3.71	71	7.84	14-15	12
	8	S	21.20	8.41	4.30	73	7.88	6-188	9
		D	22.90	15.85	3.12	59	7.90	8-14-0	8
25.111	1	S	20.50	19.44	5.57	105	8.18	6	2
		D	20.20		5.67	106	8.18		
31.111	4	S	23.00	19.32	5.36	105	8.04	8-0-6	3
		D	21.80	19.79	2.58	50	7.86	34-31	6
7.iv	1	S	21.40	19.36	5.33	102	8.12	7-7-0	0
		D	21.20	19.63	5.17	98	8.14	7-62-0	8
10.iv	4	S	20.90	17.89	5.13	96	8.03	10-7-0	4
		D	21.40	19.59	1.93	37	7.93	47-8-7	67
	6	S	21.40	15.19	5.17	94	8.00	9-8-4	7
		D	21.00	19.47	3.96	75	7.98	15-13	23
	8	S	22.40	12.74	4.00	72	7.88	5-7-7	4
		D	23.00	18.84	3.24	63	7.78	3-11-3	1
16.iv	1	S	20.40	15.57	5.36	97	8.19	12-17	53
		D	20.90	19.40	5.36	101	8.17	11-6-0	9
17.iv	4	S	21.10	14.17	5.36	96	8.10	11-16	84
		D	21.20	19.62	1.77	34	7.84	65-0-7	106
	6	S	20.80	13.82	5.60	100	8.20	11-25	247
		D	21.20	19.62	2.93	56	7.89	25-19	111
	8	S	18.60	2.23	5.69	86	7.92	15-50	380
		D	20.20	11.73	3.44	59	7.69	16-2-0	104
22.iv	4	S	20.00	15.77	5.69	102	8.20	7-8-9	5
		D	21.20	19.66	1.80	34	7.75	62-18	205

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952										
28. iv	4	S	19.00	13.15	6.50	111	8.20	1-13-6	5	
		D	21.40	19.43	0.99	19	7.88	51-0-5	407	
	6	S	18.10	10.09	7.05	115	8.26	0-8-19	12	
		D	21.50	19.37	1.46	28	7.94	33-0-7	341	
	8	S	16.00	4.33	6.00	88	8.34	9-1-7	247	
		D	18.40	13.31	4.14	70	8.03	7-6-15	55	
29. iv	1	S	19.60	19.43	5.36	100	8.18	10-5-0	11	
		D	19.40	19.40	5.33	99	8.18	2-18-2	18	
14. v	4	S	18.40	18.01	5.35	96	8.10	13-20	25	
		D	18.40	19.10	4.86	88	7.93	17-18	16	
	6	S	18.20	15.90	5.48	95	8.18	11-22	22	
		D	18.50	18.95	4.84	88	8.17	15-16	15	
	8	S	15.40	1.98	6.61	94	6.90	3-0-20	71	
		D	18.10	13.95	4.32	73	8.03	9-0-25	28	
15. v	1	S	18.50	18.71	5.42	98	8.08	9-9-2	14	
		D	19.00	19.58	5.58	103	8.18	9-3-3	6	
23. v	4	S	17.20	18.87	5.56	98	8.18	6-1-11	0	
		D	16.80	19.04	5.33	94	8.19	8-0-10	0	
29. v	1	S	17.40	19.50	5.61	100	8.22	10-8-5	20	
		D	17.50	19.55	5.55	99	8.22	11-18	20	
	4	S	15.70	18.89	5.45	94	8.12	8-7-1	4	
		D	15.90	19.14	5.45	95	8.01	11-54	10	
	6	S	16.00	18.55	5.40	93	8.13	8-4-5	4	
		D	16.00	19.10	5.42	94	8.10	10-2-3	9	
	8	S	15.80	4.85	4.85	7.68	7-0-2	21		
		D	16.70	17.15	4.28	74	8.09	8-1-6	17	
	19. vi	1	S	15.90	16.73	5.60	95	8.17	12-11	94
			D	15.00	19.24	5.60	96	8.14	13-2-7	41
		4	S	14.90	13.32	5.86	93	8.17	13-5-4	41
			D	14.30	19.09	5.18	88	8.05	12-3-7	5
6		S	14.50	11.38	6.00	93	8.20	13-9-2	66	
		D	14.50	19.15	5.27	89	8.04	18-102	0	

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 19. vi	8	S	14.20	2.85	6.40	90	8.11	5-7-10	168
		D	13.50	9.44	4.84	72	8.06	10-7-6	69
3. vii	1	S	13.20	18.87	5.98	99	8.37	4-12-0	8
		D	14.80	19.39	6.00	103	8.09	14-0-2	25
	4	S	12.90	18.52	6.32	105	8.44	4-11-3	11
		D	14.10	19.22	4.95	83	8.11	19-3-3	38
	6	S	12.10	18.03	6.13	98	8.14	4-4-0	12
		D	13.60	19.09	5.14	86	8.13	30-118	26
	8	S	13.10	6.59	7.15	102	8.18	4-3-15	68
		D	14.10	17.21	5.64	93	8.30	9-3-13	8
21. vii	4	S	13.20	19.15	5.58	92		9-6-0	10
		D	13.70	19.24	5.58	93		9-6-10	11
30. vii	1	S	14.40	16.45	5.65	93	8.03	3-14-6	60
		D	18.00	18.91	5.59	100	8.12	13-2-5	44
	4	S	14.80	9.90	6.22	95	8.32	3-10-7	86
		D	14.80	19.20	5.49	94	8.16	12-1-4	14
	6	S	14.70	7.84	6.56	98	8.35	3-10-8	93
		D	13.90	18.97	5.00	84	8.11	14-29	58
	8	S	13.00	0.46	7.38	99	8.66	0-11	100
		D	12.60	0.22	7.18	95	8.66	5-5	108
8. viii	4	S	16.10	11.66	5.56	89	8.28	3-0	36
		D	13.90	19.29	4.51	76	8.03	5-0	19
19. viii	1	S	16.80	17.72	5.31	92	8.10	7-0-0	21
		D	17.60	19.41	5.11	92	8.14	13-2-2	44
	4	S	16.70	15.86	5.96	101	8.21	8-0-0	16
		D	14.00	19.31	4.11	69	8.11	17-16	30
	6	S	16.60	14.23	6.34	105	8.16	5-12-4	10
		D	13.90	14.23	4.53	72	8.10	13-0	35
	8	S	14.40	4.99	6.36	92	8.20	5-0-3	49
		D	16.20	14.22	5.06	83	7.92	7-88	30

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
22. viii	4	S	16.20	16.42	5.65	96	8.12	5-0-2	17
		D	15.40	19.24	4.32	74	8.05	23-0-2	48
16. ix	1	S	16.00	19.16	5.67	99	8.20	2-12-0	0
		D	16.80	19.21	6.89	122	8.17	7-8-3	3
	4	S	15.90	18.84	4.75	82	8.13	6-1-11	0
		D	15.20	19.02	5.77	99	8.07	12-3-0	5
	6	S	14.80	18.60	4.89	83	8.15	7-24	0
		D	14.20	19.03	6.00	101	8.09	14-0-0	5
	8	S	17.60	15.16	4.62	79	8.09	3-6-5	3
		D	17.40	17.81	5.15	90	8.08	1-8	0
26. ix	4	S	16.00	19.03	5.79	100	8.22	2-10	2
		D	15.80	19.23	5.43	94	8.18	8-26	0
30. ix	1	S	17.90	19.31	6.25	113	8.22	16	14
		D	17.10	19.40	6.31	112	8.25	17	0
	4	S	18.20	19.05	5.93	107	8.23	10	0
		D	16.90	19.22	5.81	103	8.20	11	0
	6	S	18.30	18.75	5.91	106	8.18	10	0
		D	16.80	19.12	5.31	93	8.11	11	0
	8	S	20.70	6.89	5.88	97	8.16	9	0
		D	17.60	17.77	4.52	80	7.83	6	0
8. x	4	S	17.40	17.16			8.21	6	1
		D	16.50				8.13		
15. x	1	S	18.00	18.11	5.89	105	8.21	6-14-7	0
		D	17.20	19.32	5.83	104	8.22	4-15-0	0
	4	S	17.80	18.38	5.90	105	8.21	3-9-36	0
		D	16.80	19.04	3.67	65	8.09	12-24	0
	6	S	18.80	17.68	5.75	103	8.13	3-9-0	0
		D	17.80	18.64	5.80	103	8.16	3-5-0	11
	8	S	20.60	18.96	5.21	98	8.05	3-11-0	0
		D	19.50	17.02	4.84	87	8.00	3-5-0	0

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 30. x	1	S	19.40	18.37	6.12	112	8.10	8-5-0	5	
		D	16.70	19.33	5.85	103	8.02	19-0-2	15	
	4	S	19.30	18.34	5.90	108	8.11	5-18-0	33	
		D	17.10	19.20	1.31	23	7.97	31-24	0	
	6	S	19.70	17.78	6.03	110	8.12	0-20-8	0	
		D	17.20	19.25	3.22	57	8.07	21-4-2	19	
	8	S	21.00	6.90	5.00	83	8.08	1-14	17	
		D	20.30	15.32	4.80	86	7.91	7-13-3	0	
	6. xi	4	S	19.40	19.11	5.56	103	8.19	3-7	10
			D	17.30	19.12	4.33	77	8.16	7-13	7
	11. xi	1	S	18.20	19.32	5.31	96	8.13	8-20-8	3
			D	18.00	19.53	4.66	84	8.23	3-12-6	5
		4	S	18.80	18.87	5.65	103	8.12	6-17-0	7
			D	18.30	19.07	4.89	88	8.20	3-19-0	43
6		S	19.30	18.55	5.25	96	8.15	10-23	5	
		D	17.60	19.23	2.84	51	8.15	10-15	4	
8		S	21.60	18.27	4.48	85	8.16	38-200	7	
		D	21.30	17.84	4.85	91	8.12	0-24	14	
21. xi		4	S	19.50	19.18	5.09	94	8.12	3-33	0
			D	17.90	19.23	1.49	27	8.01	33-40	4
2. xii	1	S	21.20		5.18		8.18	2-35-5	0	
		D	21.20	19.53	5.55	106	8.17	2-37-2	0	
	4	S	21.40	19.20	5.18	99	8.16	2-27-0	0	
		D	19.00	19.30	2.72	50	8.10	20-16	0	
	6	S	21.20	19.19	5.16	98	8.12	7-36	0	
		D	19.20	19.38	3.59	66	8.11	13-28	0	
	8	S	25.00	6.18	5.06	89	8.17	2-0-18	0	
		D	24.40	11.37	4.23	78	7.88	2-8-10	0	

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 10. xii	1	S	18.80	19.65	5.40	99	8.22	0-12-0	0	
		D	20.00	19.74	5.40	101	8.18	3-10-0	0	
	4	S	21.10	19.43	5.26	100	8.15	2-6-3	0	
		D	20.10	19.46	4.33	81	8.12	4-13-5	0	
	6	S	21.80	19.26	5.30	102	8.02	2-4-6	0	
		D	19.70	19.30	2.67	50	8.02	19-72	4	
	8	S	24.20	12.79	4.57	85	8.01	3-2-10	8	
		D	23.20	17.94	3.94	76	7.93	3-10-2	7	
	19. xii	4	S	20.40	19.34	4.48	84	8.15	4-11	4
			D	19.60	19.46	3.76	70	8.17	6-15	1
23. xii	1	S	20.10	19.76	5.28	99	8.21	3-0-3	0	
		D	19.40	19.67	4.77	88	8.13	2-0-1	18	
	4	S	21.50	19.62	5.17	99	8.16	8-0-3	0	
		D	20.60	19.59	5.71	108	8.17	14-32	0	
	6	S	22.20	19.34	3.82	74	8.07	3-12-0	0	
		D	21.70	19.61	4.14	80	7.97	15-3-4	0	
	8	S	23.80	13.40	4.91	91	7.97	6-1-5	0	
		D	22.50	17.94	3.26	62	7.88	6-1-15	0	

Location: MALANBAR - PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
4.1	1	S	27.80	19.83	5.03	107	8.18	7-14-4	2
	2	S	31.00	20.18	8.37	202	8.27	4-23-0	4
	3	S	27.70	20.20	5.34	114	8.18	3-20-0	3
	4	D	21.80	20.06	4.31	84	8.12	13-14	6
		S	27.80	20.11	5.55	119	8.11	4-37	5
		D	21.80	19.99	4.47	86	8.12	7-33-0	3
	17.1	1	S	24.80	19.72	5.69	116	8.20	7-7-0
2		S	25.80	19.71	6.04	125	8.04	9-5-32	4
3		S	25.60	19.84	5.90	122	8.04	7-9-16	4
4		D	21.40	19.88	0.95	18	7.92	17-43	4
		S	22.80	19.91	4.98	98	8.05	7-19-0	3
		D	22.50	19.88	4.41	86	8.02	8-22-4	4
15.11		1	S	24.80	19.83	6.47	132	8.25	33-20
	2	S	24.60	19.81	5.81	118	8.21	45	0
	3	S	22.80	19.98	5.16	102	8.00	43	0
	4	D	22.20	20.09	3.71	72	7.91	47-36	0
		S	23.40	20.03	4.40	87	8.03	46-9-0	0
		D	23.20	20.04	4.45	88	7.96	43-12	0
	19.11	1	S	22.00	20.36	8.87	173	8.25	9-13-0
2		S	22.90	20.36	5.54	110	8.09	4-24	6
30.11	1	S	20.90	19.48	5.43	103	7.89	7-12-0	5
	2	S	20.90	19.54	5.51	104	8.04	7-9-0	5
	3	S	21.50	19.66	4.67	89	7.94	6-42	5
	4	D	21.30	19.99	3.65	70	7.88	13-31	8
		S	22.60	19.90			7.93	7-29-4	0
		D	22.40	20.07	5.16	101	7.93	9-31-2	4
14.111	1	S	21.60	19.77	6.70	129	8.14	7-7-12	12
	2	S	21.60	19.69	6.11	118	8.13	7-19-2	11
	3	S	22.60	20.12	4.27	84	7.84	7-19-0	0
	4	D	22.00	20.03	1.14	22	7.54	53-12	3
		S	22.60	19.90	4.00	78	7.84	5-17-6	0
		D	22.40	19.89	3.09	60	7.79	12-35	0

Location: MAIANBAR - PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952										
25. iii	1	S	21.80	19.38	6.01	116	8.12	0-15-7	0	
	2	S	21.40	19.40	4.88	93	8.02	0-40	0	
	3	S	20.80	19.35	4.44	84	7.92	3-26-0	3	
		D	22.20	20.16	0.39	8	7.62	47-54	3	
	4	S	20.60	19.43	4.59	86	8.03	3-12-9	0	
		D	22.20	20.27	0.13	3	7.57	51-50	0	
	16. v	1	S	19.00	18.00	6.65	120	8.19	5-13-0	1
		2	S	19.40	18.02	7.17	131	8.08	4-20-9	0
3		S	18.90	18.82	5.83	106	7.97	4-23	0	
		D	19.30	19.59			7.51	114-8	0	
4		S	18.80	18.40	5.89	107	8.07	2-20-6	3	
		D	18.90	19.21	2.21	40	7.87	15-40	9	
3. vii		1	S	13.70	18.89	6.95	116	8.27	10-3-7	8
		2	S	14.30	18.74	8.28	139	8.35	9-11-7	3
	3	S	12.40	18.63	7.63	124	8.39	0-18-0	17	
		D	13.00	19.07	4.95	81	8.26	7-31	28	
	4	S	12.30	18.78	7.15	116	8.33	2-5-13	21	
		D	12.50	18.84	6.80	111	8.11	9-7-1	14	
	8. viii	1	S	16.90	17.94	5.50	96	8.14	14-21	30
		2	S	16.70	17.51	5.79	100	8.20	16-11	38
3		S	16.50	14.31	5.87	98	8.26	10-9-2	16	
		D	13.70	19.14	2.81	47	8.13	7-14-7	3	
4		S	16.40	14.31	5.74	95	8.17	10-3-4	11	
		D	13.70	19.15	2.43	41	8.06	10-30	8	
29. viii		1	S	17.30	19.16	6.41	114	8.24	6-0	5
		2	S	17.50	19.21	6.30	113	7.80	3-1	0
	3	S	15.80	17.50	6.75	115	8.27	3-0	0	
		D	14.70	19.25	0.05	1	7.82	30	0	
	4	S	15.20	17.15	6.18	104	8.28	3-0	0	
		D	14.70	18.68	2.76	47	8.09	7-1	0	

Location: MALANBAR - PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 22. ix	1	S	17.20	19.33	6.22	110	8.16	6-0-9	6	
	2	S	17.70	19.30	6.26	112	8.23	7-0-0	6	
	3	S	17.50	18.72	5.33	95	8.21	3-2-3	5	
		D	16.50	19.00	3.27	57	8.11	12-0-3	1	
	4	S	17.70	18.74	5.22	93	8.16	4-0-4	5	
		D	16.50	18.98	3.99	70	8.15	9-7-0	10	
	22. x	1	S	18.80	19.15	5.72	104	8.14	6-14-0	11
		2	S	18.80	19.54	5.36	98	8.14	8-27-2	5
3		S	20.40	17.78	5.57	103	8.22	3-20-4	4	
		D	18.70	19.85	1.60	29	7.91	8-4-5	0	
4		S	20.40	17.70	5.61	101	8.25	2-18-3	0	
		D	18.80	19.79	0.61	11	7.89	11-4-9	0	
6. xi	1	S	17.80	19.41	5.56	100	8.13	13-8-0	48	
	2	S	18.50	19.40	6.03	110	8.18	10-4-0	37	
	3	S	20.20	18.65	5.19	96	8.18	7-14-0	3	
		D	19.50	18.84	5.17	95	8.19	7-4-1	3	
	4	S	20.20	18.64	5.22	97	8.19	4-13-0	3	
		D	19.50	19.02	3.16	58	7.96	13-3-5	3	
20. xi	1	S	21.30	19.34	5.34	102	8.13	7-3-9	2	
	2	S	21.30	18.69	5.16	98	8.12	6-2-1	4	
	3	S	21.80	18.55	4.89	93	8.12	7-2-2	0	
		D	20.50	19.07	4.31	81	8.11	14-2-1	0	
	4	S	21.60	18.58	5.42	103	8.11	3-7-7	0	
		D	20.50	19.14	5.11	96	8.14	7-14-0	21	
4. xii	1	S	22.80	19.45	5.55	109	8.16	8-9-0	0	
	2	S	24.20	19.44	6.26	125	8.17	9-11-3	12	
	3	S	24.90	17.57	5.42	108	8.18	6-20-4	0	
		D	20.80	19.04	3.10	58	8.05	15-4-7	0	
	4	S	24.70	17.86	5.30	105	8.08	6-4-3	0	
		D	20.80	19.09	3.83	72	7.95	18-2-9	0	

Location: PORT PHILLIP

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N	
1952										
22- 24. i	1	0m	24.10	17.57	7.93	155		13	7	
		5m	21.20	18.28	5.41	102		10	8	
	2	0m	20.60	18.83	5.39	101		7	23	
		10m	19.90	18.78	5.33	99		3	3	
	3	0m	20.20	19.15	5.42	101		6	4	
		10m	20.20	19.19	5.40	101		7	7	
	5	20m	20.20	19.13	5.38	100		7	18	
		0m	21.10	18.84	5.57	105		3	7	
		10m	20.10	18.84	5.41	101		7	3	
	6	20m	19.30	18.97	4.61	85		11	3	
		0m	21.70	18.66				12	0	
		5m	21.50	19.44				7	0	
26. i	6	0m	21.20	19.33	5.04	96		11	9	
		5m	21.00	19.33	4.96	94		9	24	
23- 27. ii	1	0m	19.50	18.15	6.15	112		10	11	
		5m	18.90	18.41	4.67	85		7	42	
	2	0m	19.10	19.09	5.43	100		10	0	
		10m	19.10	19.04	5.43	99		10	0	
	3	0m	18.70	19.21	5.72	104		8	21	
		10m	18.55	19.32	5.61	102		7	0	
		20m	18.40	19.47	5.68	103		7	0	
	5	0m	19.20	19.01	5.48	101		10	0	
		10m	19.00	19.09	5.40	99		8	0	
		20m	18.50	19.15	5.43	99		9	0	
	6	0m	19.00	19.59	5.43	100		10	0	
		5m	19.00	19.67	5.35	99		10	0	
	18. iii	1	0m	18.35	18.71	5.10	92		13	7
			5m	18.20	19.09	5.30	96		10	5
2		0m	19.60	19.14	5.36	99		9	0	
		10m	19.20	19.24	5.46	101		7	0	
3		0m	18.90	19.38	5.53	101		7	0	
		10m	18.80	19.37	5.46	100		4	0	
		20m	18.70	19.49	5.36	98		7	0	
5		0m	19.90	19.19	5.43	101		8	0	
		10m	19.60	19.25				5	0	
		20m	19.70	19.18	5.01	93		6	0	

Location: PORT PHILLIP

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
18.iii	6	0m	19.00	19.64	5.06	93		9	0
		5m	19.00	19.70	5.04	93		10	0
21-23.iv	1	0m	16.70	19.09	5.75	101		19	197
		5m	16.05	19.28	5.55	97		15	5
	2	0m	16.60	19.36	5.86	103		10	0
		10m	15.40	19.43	5.80	100		8	10
	3	0m	16.20	19.46	5.93	104		5	2
		10m	16.00	19.57	6.10	107		10	5
		20m	16.00	19.48	5.96	104		9	7
	5	0m	16.80	19.84	5.66	101		10	1
		10m	16.79	19.37	5.69	100		12	1
		20m	16.79	19.33	5.64	99		6	7
	6	0m	15.40	19.86	6.22	108		13	2
		5m	15.40	19.85	6.16	107		12	2
21-24.v	1	0m	13.10	19.27	6.00	99		8	0
		5m	13.10	19.27	5.93	98		7	0
	2	0m	13.15	19.27	6.06	101		8	0
		10m	13.20	19.29	5.96	99		55	0
	3	0m	12.90	19.41	5.95	98		10	0
		10m	12.90	19.40	5.69	94		4	2
		20m	12.90	19.41	6.00	99		9	0
	5	0m	13.60	19.37	5.85	98		44	0
		10m	13.60	19.39	5.82	97		11	0
		20m	13.60	19.40	5.85	98		8	0
	6	0m	12.35	19.54	6.30	103		7	0
		5m	12.10	19.61	6.22	101		9	0
19.vi	2	0m	11.80	19.06	6.29	101		7	0
		10m	11.80	18.98	6.33	102		5	0
	3	0m	12.60	18.54	6.11	99		4	43
		10m	12.30	18.63	6.11	99		5	11
		20m	12.20	18.63	6.11	99		3	0

Location: PORT PHILLIP

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 27. vi	5	0m	11.20	18.70	6.39	101		3	6
		10m	11.20	18.82	6.33	100		7	6
		20m	11.20	19.14	6.11	97		10	5
	6	0m	10.90	19.11	6.45	102		11	3
		5m	10.85	19.15	6.35	101		7	21
30. vi	1	0m	10.00	13.32	6.66	97		8	147
		5m	9.75	16.37	6.45	96		0	75
22- 25. vii	1	0m	9.50	14.51	6.49	94		12	117
		5m	9.60	18.70	5.31	81		17	53
	2	0m	8.00	15.93	7.68	110		3	61
		10m	9.60	18.67	6.16	94		14	13
	3	0m	10.80	18.89	6.21	98		10	12
		10m	12.10	19.37	5.96	97		12	26
		20m	12.10	19.37	5.90	96		5	34
	5	0m	9.70	18.52	7.34	113		8	7
		10m	9.75	18.63	6.66	102		9	6
		20m	9.70	18.72	6.07	93		16	12
	6	0m	8.60	18.81	6.60	99		11	14
		5m	8.50	18.80	6.60	99		14	12
20- 23. viii	1	0m	10.80	16.16	6.08	93		14	24
		5m	10.30	18.24	5.97	92		7	3
	2	0m	11.10	18.26	6.53	103		7	2
		10m	10.10	18.33	6.06	93		6	2
	3	0m	11.60	19.14	6.16	99		7	5
		10m	11.60	19.22	6.16	99		3	1
		20m	11.60	19.14	6.03	97		6	4
	5	0m	10.50	18.26	6.45	101		4	7
		10m	10.70	18.30	6.26	96		3	5
		20m	10.25	18.32	6.16	95		7	2
	6	0m	11.00	18.39	6.08	96		11	1
		5m	11.00	18.52	5.74	90		77	0

Location: PORT PHILLIP

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 16. ix	1	0m	11.80	16.14	6.03	94				
		5m	11.30	17.36	6.00	94		3	22	
	2	0m	11.20	18.10	6.03	95		5	6	
		10m	11.20	18.14	5.90	93		3	0	
	3	0m	12.00	19.11	5.97	97		6	0	
		10m	12.00	19.11	5.71	92		4	0	
		20m	12.10	19.41	5.57	91		3	0	
	5	0m	11.10	18.29	5.97	94		4	0	
		10m	11.10	18.38	5.94	94		9	10	
		20m	11.00	18.33	5.85	92		7	90	
	6	0m	12.00	18.48	5.90	95		8	8	
		5m	12.00	18.42	6.03	97		8	0	
								8	0	
	24- 26. x	1	0m	15.00	15.11	5.56	91			
			5m	13.80	17.63	5.25	86		12	44
		2	0m	13.40	18.12	6.20	102		15	0
			10m	13.40	18.19	5.90	97		5	4
		3	0m	15.00	18.23	5.96	101		8	4
			10m	14.10	18.74	6.09	102		0	4
			20m	14.00	19.05	6.03	101		0	4
		5	0m	14.90	18.00	6.09	103		10	4
			10m	13.80	18.02	6.03	100		13	0
			20m	13.00	18.20	5.48	89		8	0
		6	0m	15.60	18.36	5.96	102		13	0
5m			15.10	18.38	6.09	107		8	0	
								4	8	
17- 21. xi		1	0m	15.90	12.92	5.18	84			
			5m	16.50	17.58	5.18	89		10	49
		2	0m	15.90		6.16			11	0
			10m	15.60	17.51	5.77	98			
		3	0m	15.40	19.01	5.95	102		6	0
			10m	15.00	19.15	6.07	105		6	0
			20m	14.90	19.17	5.89	101		9	20
		5	0m	16.00		6.07			4	0
			10m	15.40	17.40	6.07	102			
			20m	15.30	18.03	5.84	99		7	0
		6	0m	16.50	18.19	5.71	99		8	2
	5m		16.40	18.23	5.77	100		8	0	
								8	0	

Location: PORT PHILLIP

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 9. xii	2	0m	17.50	17.35	5.66	99		7	7
		10m	17.10	17.46	5.53	96		11	7
	5	0m	17.30	17.72	5.68	99		12	6
		10m	16.95	17.78	5.45	95		9	8
		20m	16.90	18.13	4.89	85		12	8
	14- 17. xii	1	0m	16.90	13.11	5.53	91		10
5m			17.40	16.47	5.46	94		12	0
3		0m	17.20	18.33	5.84	103		9	0
		10m	15.90	19.17	5.91	103		11	0
		20m	15.90	19.12	5.81	101		10	0
6		0m	16.40	18.18	5.77	100		11	0
		5m	16.40	18.14	5.81	101		9	0

Location: TAMAR RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 17- 19.ii	1	S	17.00	19.10	6.00	106			
		D	17.20	19.08	5.89	105	10-4	22	
	2	S	17.90	18.57	5.96	106	5-9	0	
		D	17.80	18.71	6.00	107	9-1	0	
	3	S	18.80	17.47	5.93	106	19-0	0	
		D	19.00	16.73	5.96	106	8-6	6	
	4	S	19.20	16.78	5.65	101	7-7	0	
		D	18.90	16.78	5.61	100	7-9	0	
	4a	S	19.10	16.09	5.61	99	10-11	8	
		D	19.60	2.87	5.16	80	18-0	32	
6	S	19.90	7.48	2.16	35	8-9	81		
	D	20.30	0.10	4.99	76	7-13	362		
7	S	20.50	0.05	6.23	95	3-6	6		
	D	20.70	0.05	6.86	106	3-3	5		
8	S	18.90	0.04	4.81	71	3-1	5		
	D					4-3	53		

Location: DERWENT RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
7.1	3	S	16.60	13.16	5.39	89		7-15	0
		D	13.35					17-7	12
16.1	6	S	15.30	0.09	7.00			7-8	
14-	1	S	16.20	18.71	6.17	107		8-6	0
16.11		D	15.40	18.98	6.00	103		10-0	0
	2	S	16.90	17.42	6.23	108		7-6	8
		D	14.90	19.20	5.01	85		16-8	4
	3	S	17.60	12.78	5.85	98		8-3	0
		D	14.00	19.13	4.32	73		17-5	0
	4	S	17.80	8.03	6.93	110		7-5	0
		D	14.20	17.34	4.22	70		17-5	0
	5	S	17.40	0.94	5.37	78		5-8	34
		D	17.20	15.60	5.71	97		15-7	43
	6	S	17.80	0.17	6.44	94		4-7	50
		D	18.20	0.84	6.40	95		3-5	39
	7	S	17.80	0.15	6.72	98		8-9	17
	7a	S	18.30	0.06	5.71	84		8-13	83
	8	S	17.10	0.03	5.71	82		4-7	33
	9	S	18.60	0.03	6.52	96		2-5	0
	9a	S	18.00	0.05	5.55	81		2-30	62
	9b	S	17.20	0.03	6.72	97		3-6	50
	10	S	14.90	0.03	5.10	71		4-13	56
	10a	S	14.70	0.03	6.87	94		3-3	0
	11	S	16.60	0.03	6.65	95		2-5	0
	11a	S	18.50	0.03	5.89	87		3-36	85
	12	S	14.50	0.03	6.07	83		3-7	76
	13	S	18.40	0.03	6.38	94		3-4	0
	14	S	20.40	0.03	6.47	99		0-8	0
	15	S	20.00	0.04	6.07	92		0-17	0
29.11	3	S	17.40	12.73	5.46	91		10-8	0
		D	15.19	18.98	1.67	29		26-2	6

Location: D'ENTRECASTEAUX CHANNEL

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952		(m)							
5.i	1	0	15.67	19.62	5.46	95		12-8	0
		18	15.10	18.69	5.34	91		8-2	0
	6	0	15.30	18.69				7-7	3
		14	14.90	19.68				10-5	38
21.ii	1	0	15.75	18.97	5.62	97		7-7	0
		21	15.70	19.06	4.99	86		6-8	0
	6	0	15.85	18.88	5.65	98		6-5	0
		15	15.65	18.83	5.68	98		3-7	3
17.iii	1	0	16.85	19.11					5
		40	15.20	19.23					5
	6	0	16.75	18.97					5
		12	15.20	18.92					8
28.v	1	0	11.61	18.51	5.80	93		11-31	3
		44	12.20	18.85				13-23	3
	6	0	10.75	17.13	5.45	84		8-8	0
		14	11.05	18.45	2.73	43		11-13	3
26.vi	1	0	10.75	17.92				12-6	48
		35	11.20	18.27				13-4	30
	6	0	10.70	15.78				15-2	31
		12	10.65	17.16				13-3	26
24.vii	1	0	9.94	17.69	6.06	92		13-7	26
		44	11.20	18.46	5.94	94		14-7	44
	6	0	10.00	17.71	6.00	92		9-14	40
		14	11.10	18.63	5.83	92		10-11	39
19.viii	1	0	10.80					8-0	7
		44	10.70	18.98				8-0	9
	6	0	11.10	18.75				5-3	2
		13	10.75	18.82				6-4	5

Location: D'ENTRECASTEAUX CHANNEL

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952		(m)							
19. ix	1	0	11.30	18.43				4-13	0
		20	10.75	18.76				11-6	6
	6	0	11.80	18.41				9-0	8
		14	11.00					11-12	15
21. x	1	0	12.40	17.71				13-2	7
		48	11.80	18.72				12-3	29
	6	0	12.95	17.38				7	4
		14	11.65	18.54				15-0	29
25. xi	1	0	14.40	17.33				10-4	0
		44	12.60	19.09				10-4	6
	6	0	14.40	18.00				8-7	0
		14	12.40	19.07				9-10	29
10. xii	1	0	14.90	18.64				12-3	3
		43	13.40	19.12				7-6	0
	6	0	14.90	18.72				12-2	2
		14	14.80	18.81				8-3	7

Location: PITPWATER - TASMANIA

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
7.1	2	S	16.20	19.21	2.34	41		11-17	48
	3	S	16.90	19.17	5.32	94		8-18	0
	4	S	17.30	19.38	5.22	93		10-20	7
29.11	2	S	19.48	19.91	5.63	105		13-0	6
	3	S	19.20	19.86	5.53	103		10-0	0
	4	S	18.99	20.15	5.57	103		11-1	7
27.11	2	S	14.40	20.17	5.46	93		15-2	11
	3	S	13.30	19.86	5.37	90		13-0	8
	4	S	13.30	20.32	5.17	87		16-0	10
17.12	2	S	12.80	20.25	6.48	108		6-9	
	3	S	12.80	19.98	5.78	96		7-6	
	4	S	12.20	20.23	5.71	94		7-10	
22.12	2	S	8.33	16.92	6.28	92		3-17	0
	3	S	8.89	17.34	6.90	103		3-13	3
	4	S	8.89	16.74				11-19	0
26.12	2	S	8.89	14.85	5.65	82		14-26	26
	3	S	8.33	15.14	5.59	80		9-8	47
	4	S	8.89	14.86	5.52	80		15-5	48
24.12	2	S	7.22	13.53	6.86	94		9-16	31
	3	S	6.67	13.63	5.91	80		5-23	34
	4	S	7.22	12.83	6.52	88		8-20	39
21.12	2	S	8.33	17.05				1-6	5
	3	S	8.33	17.09	6.19	91		3-4	5
	4	S	8.33	16.62	4.30	63		4-19	7
25.12	2	S	10.60	17.65				4-4	0
	3	S	10.00	17.74				3-5	0
	4	S	11.10	17.36				5-18	16

Location: PITTWATER - TASMANIA

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
23. x	2	S	13.90	14.59				3-12	20
	3	S	13.30	15.87				2-4	9
	4	S	14.40	14.69				8-9	5
27. xi	2	S	18.90	15.67				4-12	3
	3	S	18.30	15.99				5-9	3
	4	S	19.40	15.70				8-9	0
22. xii	2	S	17.20	18.25				6-17	6
	3	S	17.80	18.27				2-16	0
	4	S	17.20	18.07				0-20	3

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952										
25. i	2	S	19.80	19.85	5.32	100	8.19	2	0	
		D	19.60	19.79	5.37	100	8.17	5	0	
	3	S	20.50	19.89	5.26	99	8.21	2	0	
		D	20.40	19.91	5.19	98		3	0	
28. ii	1	S	19.60	19.76	5.14	96	8.07	4-14	0	
		D	19.60	18.77	5.03	94	8.13	5-6	0	
	2	S	19.70		5.23		8.11			
		D	19.70		5.25		8.14			
	3	S	19.50		5.04		8.11			
		D	19.50		5.25		7.10			
	4	S	21.10	20.09	5.23	101	8.21	7-5	0	
		D	21.00	20.09	4.97	95	8.18	7-0	0	
	5	S	22.40	20.54	5.00	99	8.23	11-3	0	
		D	20.80	20.58	4.56	87	8.17	9-0	0	
	7	S	20.90	0.73	4.43	69	6.83	4		
		D	25.80	15.43	3.62	71	7.41	7	0	
	28. iii	2	S	20.40	19.87	5.23	99	8.16	8	0
			D	20.50	19.99	5.08	96	8.16	5	0
		3	S	20.00	19.97	4.97	94	8.13	13	0
			D	20.00	19.99	4.90	92	8.11	5	0
2. v	2	S	18.50	19.90	5.62	103	8.24	0	0	
		D	17.40	19.97	5.76	103	8.24	1	0	
	3	S	17.40	19.84	5.43	98	8.20	2	0	
		D	17.20	19.98	5.58	100	8.20	0	0	
19. vi	3	S	15.90	19.42	5.68	99	8.66	6	0	
		D	14.50	19.48	5.76	98	8.71	3	0	
23. vii	2	S	17.00	19.64	5.63	100	8.28	5	0	
		D	15.00	19.57	5.83	100	8.28	0	0	
	3	S	14.70	19.57	5.72	98	7.97	7	0	
		D	14.50	19.47	5.82	99	8.19	5	0	

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 10.1x	2	S	15.90	19.60	5.66	99	6.90	0	0
		D	17.10	19.02	5.24	93	7.96	11	0
	3	S	14.80	19.09	5.77	98	8.22	7	0
		D	14.20	19.15	3.91	66	8.25	10	0

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952 29.11	1	S	22.30	17.20	4.83	92		20-0	0
		D	22.30	17.28	5.03	93		16-7	0
	2	S	22.30	16.99	4.55	86		20-7	0
		D	22.30	17.04	4.85	91		15-10	0
	3	S	22.30	16.78	5.14	97		5	0
		D	22.10	16.86	4.57	86		13	0
	4	S	22.00	16.83	4.79	90		11-3	0
		D	22.00	16.83	4.72	89		7-11	0
	5	S	22.00	16.76	4.79	90		11	0
		D	21.90	16.72	4.94	92		14	0
	6	S	22.00	16.71	4.97	92		3-12	0
		D	21.90	16.77	4.76	89		13-7	0
	7	S	22.80	15.80	4.20	79		6-4	0
		D	23.00	16.79	3.55	68		7-0	0
	8	S	24.50	14.83	3.60	69		27-7	0
		D	22.70	16.68	2.20	42		21-13	0

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
1.iii	1	S	21.00	19.82	5.33	102	8.15	8-3	0
		D	20.30	19.86	5.47	103	8.15	5-2	0
	2	S	22.00	19.76	5.30	103	8.17	9-3	0
		D	21.60	19.77	5.26	101	8.18	9-0	0
	3	S	21.50	19.65	5.23	101	8.16	5	0
		D	20.90	19.73	5.43	104	8.15	6	0
	4	S	23.90	19.59	5.07	126	8.18	7-6	0
		D	22.10	19.57	5.23	102	8.20	6-5	0
	5	S	23.20	19.44	5.30	105	8.20	4	0
		D	22.00	19.44	5.36	104	8.22	4	0
	6	S	19.60	0.62	5.33	81	7.36	3	330
	7	S	21.30	0.18	3.97	62	6.94	0-8	30
	8	S	26.50	15.53	4.77	95	8.06	9	0
		D	23.70	18.38	5.02	99	8.21	5	0

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
5.111	1	S	21.90	19.85	5.14	100	8.19	5-2	0
		D	22.00	19.82	5.48	107	8.19	5-2	0
	2	S	23.20		5.59		8.26		0
		D	23.30		5.15		8.20		0
	3	S	23.10	19.17	5.04	99	8.18	5	0
		D	22.60	19.67	5.04	99	8.18	6	0
	5	S	26.00	19.07	6.35	131	8.39	3-2	0
		D	26.10	19.66	5.14	107	8.24	3-2	0
	6	S	23.80	3.68	4.59	77	7.45	0-2	0
		D	25.30	16.02	4.20	82	7.85	3-3	0
	7	S	24.40	1.91	3.77	63	7.40	4	0
	8	S	24.00	2.67	4.40	73	7.61	7-13	0
		D	23.20	2.57	3.43	55	7.45	9-6	0
	9	S	23.60	3.37	4.29	72	7.57	7-18	9
		D	24.30	3.41	3.77	63	7.45	2-17	0

Location: LESCHENAU INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 7.111	1	S	23.00	20.63	4.56	91	8.14	7-6	0
		D	22.80	20.16	4.23	84	8.11	9-2	0
	2a	S	30.00	13.34	5.30	109	6.15	3-6	93
		S	24.70	20.22	2.61	53	8.21	2	0
	3	D	24.70	20.20	2.31	47	8.21	7	0
		S	25.00	19.71	4.58	94	8.07	7-5	0
	3a	D	24.80	19.93	4.07	83	8.07	13-12	0
		S	27.70	21.20	5.72	124	8.33	3	0
	4	S	27.90	23.13	4.82	108	8.08	4-7	0
	6	S	30.00	15.94	3.92	83	7.29	21	0
	7	S	21.20	0.98	6.40	98	3.13	6	460
	8a	S	20.90	0.20	5.05	78	6.80	6-10	3
	9	S	21.80	0.23	4.73	75	6.68	5-5	16
	10	S							

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 30. i	1	S	23.20	20.12	4.64	94	8.27	5-2	0
		D	23.40	20.15	4.74	96	8.30	3-5	0
	1a	S	23.20	20.25	4.17	83	8.24	1	0
		D	23.20	20.14	3.68	75	8.22	4	4
	2	S	25.80	18.48	4.56	93	8.24	2-4	0
		D	25.80	18.48	4.56	93	8.34	0-15	0
	3	S	25.60	18.44	4.74	97	8.32	3	0
		3a	S	24.50	18.59	4.20	84	8.11	4-1
	3b	D	24.40	18.57	4.17	83	8.09	2-3	0
		S	29.90	15.22	5.70	120	8.22	2-10	0
	4	D	29.70	15.43	5.27	111	8.22	7-14	10
		S	29.70	9.63	5.40	106	8.10	2	0
	4a	S	24.20	18.77	4.23	85	8.13	1	0
		S	25.50	17.02	3.95	79	8.15	2-3	0
	8	S	30.00	4.58	4.49	84	7.56	2-5	0
		D	30.00	15.98	1.86	39	7.76	5-21	32
	9	S	14.80	0.65	4.06	56	7.00	5	38
27. ii	1	S	22.70	20.17	4.90	97	8.26	6-1	0
		D	23.00	20.21	4.85	96	8.26	6-1	0
	1a	S	23.00	20.26	4.72	93	8.27	5	0
		D	23.10	20.21	4.72	93	8.25	10	18
	2	S	24.80	20.78	4.35	90	8.13	0-5	0
		D	24.80	20.79	4.33	90	8.11	3-0	0
	3a	S	24.60	21.11	4.56	94	8.10	2-3	2
		D	24.60	21.04	4.56	94	8.09	3-3	4
	3b	S	25.90	20.01			8.16	5-0	0
		D	25.90	20.00			8.16	6-3	0
	4	S	24.80	12.41			8.18	5	0
		4a	S	24.60	21.56	4.56	94	8.19	3
	5	S	24.30	19.44	1.71	34	7.89	4-4	0
		S	26.00	11.78			8.00	5-11	0
	8	D	28.90	18.44			8.08	4-11	0
		S	29.00	4.55			6.90	14	40

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 20.111	1	S	19.30	21.56	3.82	72		3-9	0
		D	19.20	21.65	3.76	71	8.13	5-4	0
	1a	S	19.80	21.95	5.18	100	8.18	3	0
		D	19.80	21.95	5.30	102	8.19	3	0
	2	S	20.30	22.32	4.75	92	8.15	3-10	0
		D	20.20	22.36	4.78	93	8.15	4-10	0
	3	S	20.30	22.64	5.04	98	8.13	1	0
		D	20.00	21.80	5.05	97	8.11	1-8	0
	3b	S	20.20	23.00	4.18	82	8.02	4-13	0
		D	19.60	23.02	4.07	79	8.02	4-14	0
	4	S	22.40	14.63	5.07	94	8.07	7	0
		D	20.50	21.84	4.93	96	8.13	3	0
	4a	S	20.50	21.84	4.93	96	8.13	3	0
		D	22.10	21.46	4.30	85	7.95	3-8	0
	8	S	26.20	16.66	5.38	108	8.09	2-16	0
		D	27.50	19.52	4.02	85	8.02	6-22	0
	9	S	25.20	7.07	8.15	146	7.35	11	0
		D	25.20	7.07	8.15	146	7.35	11	0
23.1v	1	S	18.50	20.09	5.22	95	8.32	7-5	0
		D	18.50	20.08	5.76	106	8.20	6-7	0
	1a	S	18.20	20.15	4.83	89	8.09	11	0
		D	18.20	20.15	4.86	89	8.04	9	0
	2	S	16.90	21.78	5.80	105	8.05	3-10	0
		D	16.50	21.67	5.76	104	8.03	3-8	0
	3	S	18.00	22.36	5.72	107	8.01	3	0
		D	18.00	22.53	5.58	105	7.97	4	0
	3a	S	17.30	22.34	5.25	97	7.89	3-11	0
		D	17.00	22.37	5.27	96	7.86	3-10	0
	3b	S	17.40	23.45	4.98	94	7.74	8-8	0
		D	17.80	24.30	5.80	110	7.73	13-6	0
	4	S	16.80	14.75	5.52	111	7.70	7	0
		D	17.70	22.38	5.55	104	7.89	2	0
	4a	S	17.90	22.42	4.80	90	7.62	5-7	0
		D	22.00	16.61	6.35	119	7.79	9-10	0
	8	S	22.00	16.61	6.35	119	7.79	9-10	0
		D	22.00	20.66	3.83	75	7.70	6-9	0
9	S	24.00	5.26	5.20	89	6.80	9	0	
	D	24.00	5.26	5.20	89	6.80	9	40	

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952	14. v	1	S	18.50	19.90	5.43	100	8.16	7-2	0
		D	18.60	19.88	5.50	101	8.17	2-9	0	
	1a	S	18.30	19.76	5.43	99	8.17	3	0	
		D	18.30	19.82	5.37	98	8.17	4	0	
	2	S	17.30	20.90	5.34	97	8.13	0-9	4	
		D	17.30	20.87	5.50	100	8.13	2-7	0	
	3	S	16.90	20.80	5.34	96	8.14	2	15	
		D	17.00	21.07	5.80	105	8.14	1-8	3	
	3b	S	17.00	21.20	5.83	106	8.15	0-9	0	
		D	16.20	19.02	5.27	91	8.00	17-4	2	
	4	S	17.80	22.21	4.05	76	7.93	9-3	0	
		D	20.90	15.92	4.37	78	7.94	7	0	
	4a	S	17.30	21.28	5.43	99	8.13	2	2	
		D	17.00	21.75	5.10	94	7.98	0-7	3	
	8	S	22.00	12.76	5.34	96	7.89	10-6	11	
		D	20.90	19.99	2.19	42	7.86	6-8	6	
	9	S	16.10		5.83		7.04	10	16	
		D								
	12. vi	1	S	17.00	18.53	5.55	97	8.15	1-8	0
			D	17.00	18.91	5.55	97	8.16	0-13	0
1a		S	16.30	16.51	6.72	114	8.15	0	0	
		D	15.20	16.82	5.83	97	8.08	0	0	
2		S	15.30	7.53	5.83	88	8.03	3-9	56	
		D	15.80	17.50	5.23	89	8.01	7-2	0	
3		S	15.80	12.25	6.00	96	8.03	7	0	
		D	15.90	16.73	5.07	86	7.98	1	0	
3a		S	14.90	1.20	5.40	75	7.40	21-6	180	
		D	14.70	1.16	5.40	75	7.11	28-9	180	
4		S	15.20	16.06	5.60	93	8.02	1	0	
		D	14.20	1.93	5.07	70	7.40	4	20	
7		S	14.90	17.26	4.98	83	8.02	6-11	0	
		D	14.90	18.03	4.98	84	8.00	5-6	0	
7a		S	15.80	18.14	5.40	92	9.97	3-10	0	
		D	13.80	1.77	6.00	82	7.37	6-14	85	
8		S	16.10	8.00	4.08	65	7.34	9-0	44	
		D	13.30	1.82	6.45	88	7.38	3	950	

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 18.vii	1	S	15.60	16.70	5.45	92	8.18	9-11	0	
		D	15.80	17.42	5.47	93	8.21	6-11	0	
	1a	S	15.30	17.60	5.58	94	8.23	0	0	
		D	15.60	18.25	5.47	93	8.22	3	0	
	2	S	12.60	7.42	6.67	95	8.08	5-10	258	
		D	13.30	9.13	6.32	93	8.09	3-1	202	
	3	S	12.20	5.00	6.67	92	7.92	6	253	
		3a	S	13.50	0.31	6.03	82	6.92	23-17	39
		D	13.50	0.30	5.28	71	6.72	21-17	35	
	4	S	12.10	5.59	6.88	96	7.78	5	345	
	5	S	11.00	0.95	7.00	90	7.77	15	960	
	7	S	12.90	5.63	6.88	97	7.93	6-9	425	
		D	13.10	8.86	6.98	99	8.15	7-25	10	
	7a	S	12.10	7.48	7.25	103	8.03	13-23	127	
	8	S	10.60	0.95	7.36	94	7.36	4-7	960	
		D	10.60	0.95	7.18	92	7.35	4-10	985	
	9	S	10.40	0.94	6.98	89	7.35	2	975	
	20.viii	1	S	14.40	7.81	6.06	90	8.20	5-20	345
			D	14.90	16.92	5.87	98	8.24	5-8	20
		1a	S	13.60	7.71	6.51	95	8.06	7	75
D			13.80	10.22	6.68	101	8.13	9	42	
2		S	13.90	5.96	6.45	93	7.85	15-17	133	
		D	13.80	6.00	6.16	89	7.78	10-19	104	
3a		S	14.20	0.24	6.45	89	6.74	18-35	75	
		D	14.20	0.23	5.75	79	6.65	11-34	122	
4		S	13.40	5.70	6.77	96	7.82	7	153	
5		S	12.30	0.39	7.19	95	7.07	5	176	
7		S	13.60	5.69	6.51	93	7.86	8-21	118	
		D	13.60	5.80	5.72	82	7.83	10-14	156	
7a		S	13.70	5.82	6.51	94	7.85	6-28	46	
8		S	11.80	0.38	7.34	96	7.12	7-34	125	
		D	11.80	0.41	7.29	95	7.10	13-26	211	
9		S	12.10	0.44	7.65	101	7.19	18	205	

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ ‰	pH	PO ₄ -P	NO ₃ -N
1952									
25- 26. ix	1	S	18.80	5.84	6.95	110	6.94	1-22	5
		D	18.00	8.11	6.73	107	7.37	3-11	50
	1a	S	18.80	5.44	6.77	106	7.75	4	0
		D	18.80	5.46	6.64	104	7.80	0	0
	2	S	18.20	4.24	6.42	99	7.80	0-16	0
		D	18.80	4.56	6.20	96	7.80	0-11	0
	3	S	18.60	3.44	6.57	101	7.90	1	0
	3a	S	19.20	0.66	5.54	84	7.00	1-30	45
		D	18.00	0.70	5.15	76	7.19	1-27	50
	4	S	17.80	4.73	6.33	97	7.84	0	0
	5	S	17.00	0.57	6.72	97	7.23	0	20
	7	S	17.10	4.13	6.39	96	7.79	8-36	0
		D	17.10	4.12	5.77	87	7.88	0-17	400
	7a	S	17.10	2.70	6.57	97	7.44	3-28	33
	8	S	16.60	0.54	7.20	103	7.12	0-16	40
		D	16.00	0.54	7.34	104	7.17	0-21	50
	9	S	15.10	0.64	7.20	100	7.19	0	95
30- 31. x									
	1	S	17.55	18.06	5.70	101	8.28	2-4	0
		D	17.50	19.28	5.60	100	8.22	0-8	0
	1a	S	18.10	17.73	5.23	93	8.23	2	0
		D	18.00	19.06	5.23	94	8.20	4	0
	2	S	18.70	10.38	6.18	102	8.28	0-14	0
		D	19.40	10.43	5.77	97	8.19	4-9	0
	3a	S	20.30	0.78	5.94	91	7.70	4-14	0
		D	20.20	0.79	5.70	88	7.42	0-22	0
	4	S	19.20	10.34	6.42	107	8.16	2	0
	5	S	20.50	0.73	6.93	107	7.40	2	0
	7	S	19.00	10.13	6.82	113	8.15	0-13	0
		D	19.60	10.88	5.45	92	8.05	17	0
	7a	S	18.55	7.99	6.19	99	8.17	4-13	0
	8	S	20.20	0.57	6.25	96	7.32	1-21	0
		D	20.00	0.56	6.23	95	7.29	2-14	0
	9	S	18.60	0.58	6.48	96	7.20	0	0

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 25- 27. xi	1	S	20.40	19.60	5.60	106	8.32	4-8	0	
		D	20.20	19.62	5.11	96	8.40	3-14	0	
	1a	S	21.00	19.35	5.05	96	8.37	3	0	
		D	21.20	19.45	4.83	92	8.32	5	0	
	2	S	23.00	12.68	5.49	100	8.27	1-19	4	
		D	23.10	12.69	5.59	102	8.20	5-16	0	
	3a	S	19.70	0.81	5.11	78	7.19	0-19	19	
		D	18.90	0.84	4.95	75	7.20	0-31	20	
	5	S	22.20	0.63	6.25	99	7.36	3	12	
	7	S	23.90	12.18	5.59	103	8.18	3-18	3	
		D	23.00	12.26	2.91	53	8.18	3-18	0	
	7a	S	23.30	9.34	7.02	124	8.60	7-14	7	
	8	S	21.30	0.51	6.06	95	7.14	3-9	12	
		D	20.80	0.53	5.22	81	7.15	8-17	13	
	9	S	20.90	0.52	5.75	89	6.62	0	15	
	23- 24. xi	1	S	23.80	17.62	4.81	66	8.42	0-9	0
			D	20.65	18.23	4.29	58	8.24	0-11	0
		1a	S	22.00	17.21	5.94	83	8.28	0	0
2		S	23.20	16.53	5.29	72	8.11	0-12	0	
		D	23.05	16.55	5.91	82	8.07	0-11	0	
3a		S	22.80	1.73	5.23	60	7.45	1-21	6	
		D	23.30	3.32	4.86	55	7.49	4-30	11	
5		S	24.25	2.55	4.99	58	7.50	2	5	
7		S	23.60	15.46	5.29	71	8.14	0-7	0	
		D	22.70	16.46	5.05	70	8.08	2-25	14	
7a		S	23.40	15.29	4.87	65	8.16	2-9	0	
8		S	23.80	1.84	5.11	60	7.35	2-17	12	
		D	27.00	11.05	3.15	39	7.38	4-20	14	
9		S	22.25	0.53	5.05	58	7.04	7	60	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 4.1	6	S	24.80	16.37	4.74	93		19-8	16
		D	22.70	18.60	1.47	29		32-5	0
16.1	1	S	24.00	19.23	4.50	90	8.17	4	0
		D	23.80	19.86	4.47	89	8.20	6	0
	2	S	24.20	19.13	4.43	89	8.20	2-23	0
		D	24.10	19.15	4.56	91	8.19	3-13	6
	3	S	24.30	18.55	4.60	91	8.22	4	0
		D	23.70	19.39	4.00	79	8.19	8	28
	4	S	24.10	18.45	4.65	92	8.22	5-15	0
		D	23.00	19.65	3.88	76	8.15	11-7	11
	5	S	24.70	18.19	4.50	90	8.21	6	0
		D	24.30	18.23	4.52	89	8.15	5	0
	5a	S	24.60	17.77	4.45	88	8.15	6	0
		D	24.60	17.98	3.66	72	8.15	12	7
	6	S	24.80	17.64	4.29	85	8.21	7-15	0
D		24.70	17.70	4.43	88	8.17	11-12	0	
7	S	25.20	17.09	3.54	70	8.25	17	0	
	D	25.20	17.09	3.37	68	8.05	18	25	
8	S	26.40	11.91	4.83	96	8.18	26-41	0	
	D	25.80	15.20	2.43	48	7.99	38-24	244	
9	S	28.70	10.22	5.82	114	8.30	25	244	
9a	S	26.50	8.93	3.72	69	7.89	37	102	
10	S	29.40	7.50	4.09	79	7.83	39-10	265	
12	S	27.50	4.07	5.30	95	7.92	2	2	
13	S	27.40	3.41	4.35	78	7.67	2-8	0	
25.1	6	S	21.10	17.55			8.01	17-14	0
		D	22.20	18.01			8.03	14-10	0
1.11	6	S	26.10	18.16			8.10	11-18	0
		D	25.70	18.33			8.10	10-19	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 6.ii	1	S	23.20	19.53	4.56	90	8.19	2	0
		D	23.50	19.70	4.33	86	8.19	7	0
	2	S	23.50	19.53	4.49	89	8.19	3-13	4
		D	23.40	19.52	4.55	90	8.17	6-15	11
	3	S	24.20	19.13	4.62	92	8.17	7	0
		D	23.40	19.64	4.42	87	8.17	9	0
	4	S	24.00	19.14	4.73	94	8.18	6-19	0
		D	23.60	19.54	3.59	71	8.14	9-8	0
	5	S	24.20	18.97	4.66	93	8.14	7	0
		D	23.80	18.97	3.80	75	8.10	11	0
	5a	S	24.60	18.57	4.37	87	8.12	8	0
		D	24.40	19.52	4.39	89	8.12	12	0
	6	S	24.10	18.50	4.62	91	8.13	9-15	0
D		24.00	18.53	4.33	86	8.10	24-25	0	
7	S	24.50	18.61	4.53	90	8.09	7	0	
	D	24.50	18.43	4.60	91	8.09	12	0	
8	S	25.20	14.71	3.86	75	7.88	25-19	0	
	D	24.80	15.52	3.42	61	7.85	37-15	0	
9	S	26.40	12.60	4.04	78	7.75	44-12	5	
9a	S	24.80	10.28	4.04	81	7.75	30	0	
10	S	26.20	8.92	3.95	73	7.69	26-14	0	
12	S	26.80	4.11	6.24	111	7.94	1	0	
13	S	26.50	2.98	5.16	90	7.54	10-21	0	
22.ii	6	S	23.40	19.12	5.10	101	8.14	1-23	0
		D	22.70	19.28	4.07	80	8.05	6-11	0
29.ii	6	S	25.40	19.50	5.44	112		20-8	0
		D	25.80	19.54	3.83	79		19-6	0
7.iii	6	S	24.40	19.34	4.58	92	8.10	19-1	0
		D	24.80	19.38	4.50	98	8.10	19-1	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 14. iii	1	S	23.20	20.22	4.50	90	8.20	5	0
		D	22.80	20.17	4.55	90	8.20	5	0
	2	S	23.20	20.06	4.17	82	8.15	12-3	20
		D	23.10	20.07	4.33	86	8.16	13-0	20
	3	S	23.30	19.82	4.38	87	8.14	9	12
		D	23.20	19.85	4.28	85	8.13	5	25
	4	S	23.50	19.75	4.48	89	8.15	9-8	0
		D	23.20	19.77	4.33	86	8.16	9-6	0
	5	S	23.40	19.72	4.33	86	8.11	9	0
		D	23.30	19.72	3.66	73	8.11	11	0
	5a	S	23.20	19.71	4.14	82	8.04	9	0
		D	23.20	19.63	4.10	81	8.04	9	0
	6	S	23.00	19.53	4.38	86	8.07	13-4	0
		D	23.00	19.53	4.33	85	8.08	9-8	0
	7	S	22.90	19.02	3.52	69	7.97	20	0
		D	23.10	19.20	3.52	69	8.00	15	0
	8	S	23.40	16.84	4.10	79	7.86	15-12	30
		D	23.40	17.40	3.52	68	7.94	20-7	11
	9	S	25.30	15.26	6.95	135	8.11	27-9	22
		9a	S	23.80	14.26	4.10	77	7.69	38
10	S	23.60	12.45	3.95	73	7.59	34-2	0	
	D	23.80	6.20	5.15	101	7.43	3	0	
12	S	23.80	6.20	5.15	101	7.43	3	0	
	D	23.40	2.75	4.33	72	7.53	9-4	0	
21. iii	6	S	21.90	19.75	4.51	87	8.02	7-6	0
		D	21.60	19.72	4.38	85	8.00	11-24	0
2. iv	1	S	20.60	20.12	5.27	100		3	0
		D	20.40	20.13	5.37	102		7	0
	2	S	20.50	20.17	5.18	99		10-0	0
		D	20.40	20.19	5.26	100		10-1	0
	3	S	20.40	20.05	4.82	91		11	15
		D	20.30	20.06	4.80	91		7	13
	4	S	20.70	19.76	5.07	96		9-4	0
		D	20.50	19.78	4.93	93		8-9	0
	5	S	20.10	19.74	5.23	99		5	0
		D	20.20	19.71	5.14	97		8	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 2.1v	5a	S	20.30	19.81	4.50	85		9	0
		D	20.30	19.85	4.50	85		8	0
	6	S	19.40	19.50	4.50	83		12-1	0
		D	19.80	19.98	4.50	84		13-0	0
	7	S	19.60	19.33	4.80	90		9	0
		D	19.80	19.32	4.60	86		10	0
	8	S	19.60	17.38	4.33	79		8-28	60
		D	20.00	17.94	3.58	81		31-11	43
	9	S	21.40	15.45	5.97	91		31-0	82
	9a	S	20.30	14.32	4.82	85		29	28
	10	S	20.40	12.80	4.90	85		23-1	0
	12	S	21.20	7.18	5.33	89		11	0
	13	S	19.90	2.99	4.63	73		12-13	0
8.v	1	S	20.00	19.76	5.25	98	8.23	5	0
		D	19.50	19.86	5.10	95	8.21	6	0
	2	S	19.50	19.84	5.22	97	8.21	6-4	0
		D	19.50	19.84	5.33	100	8.21	6-3	0
	3	S	18.90	19.92	5.10	94	8.17	8	2
		D	18.60	19.85	4.90	90	8.14	7	5
	4	S	18.00	19.74	5.70	104	8.14	5-4	0
		D	18.00	19.85	5.22	95	8.12	8-5	0
	5	S	17.60	19.46	5.55	100	8.09	6	0
		D	17.60	19.66	5.16	93	8.09	7	0
	5a	S	17.90	19.53	4.90	88	8.01	8-9	0
		D	17.80	19.49	4.70	85	8.00	7-7	0
	6	S	18.00	19.27	4.62	83	8.00	8-9	0
D		17.50	19.60	4.86	87	8.05	7-6	0	
7	S	17.20	19.32	4.83	87	8.05	13	0	
	D	17.60	19.47	4.77	86	8.04	9	0	
8	S	17.80	17.49	3.74	66	7.83	23-12	62	
	D	17.80	17.74	3.98	70	7.81	26-10	56	
9	S	18.30	14.44	7.15	122	7.93	25-35	42	
9a	S	18.00	13.27	4.42	74	7.65	19	23	
10	S	17.80	11.76	4.30	71	7.55	21-8	19	
12	S	17.90	3.85	3.98	61	7.49	12	3	
13	S	17.10	1.08	2.80	41	7.04	8-23	218	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
16.v	6	S	17.00	18.80	4.95	87	7.96	4-14	0
		D	17.60	19.44	5.15	93		6-5	0
23.v	6	S	15.60	18.62	5.01	87	8.16	7-2	0
		D	16.40	19.10	5.43	95	8.16	4-18	0
30.v	6	S	15.50	18.96	5.43	94	8.09	9-6	0
		D	15.60	19.03	4.75	82	8.01	7-3	0
6.vi	6	S	16.20	18.37	5.37	93	7.97	13-8	0
		D	14.70	19.22	5.22	89	8.16	8-4	0
9.vi	1	S	18.60	19.57	5.07	93	8.72	3	0
		D	18.40	19.58	5.23	96	8.84	5	0
	2	S	18.20	19.45	5.23	95	8.49	3-6	0
		D	18.20	19.47	5.23	95	8.55	7-0	0
	3	S	17.60	19.23	5.23	94	8.94	3	0
		D	17.80	19.27	5.15	93	8.94	10	0
	4	S	16.00	18.54	5.40	93	8.74	2-13	0
		D	16.80	19.08	4.67	82	8.72	5-4	0
	5	S	16.40	17.84	5.60	96	8.76	3	0
		D	16.90	19.01	3.96	70	8.76	9	0
	5a	S	15.80	17.52	5.95	101	8.54	7	0
		D	16.20	17.58	6.00	103	8.66	5	0
	6	S	15.90	17.84	6.00	103	8.53	1-10	0
D		16.10	18.64	4.82	83	8.38	0-8	0	
7	S	16.30	18.11	4.82	83	8.40	4	0	
	D	16.70	18.42	4.82	84	8.23	13	0	
8	S	16.80	15.04	6.25	105	8.38	4-25	68	
	D	17.40	17.04	4.82	83	8.32	1-16	0	
9	S	17.80	14.53	5.07	86	8.36	0-27	125	
9a	S	15.70	7.19	5.07	76	8.30	0	470	
10	S	17.70		4.60		7.96	4-45	310	
12	S	16.00	3.14	3.29	48	7.88	13	350	
13	S	15.10	1.00	3.09	43	7.16	20-20	380	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 26. vi	1	S	17.60	19.21	5.53	99	8.14	1	0
		D	17.60	19.12	5.41	97	8.16	5	0
	2	S	17.70	19.18	5.41	97	8.14	7-14	0
		D	17.70	19.18	5.38	96	8.14	3-12	0
	3	S	17.20	18.17	5.35	94	8.13	9	0
		D	17.40	18.59	5.23	93	8.13	9	0
	4	S	16.20	15.97	5.72	97	8.09	15-7	0
		D	16.50	17.40	5.53	96	8.06	4-23	0
	5	S	15.80	15.47	6.00	100	8.07	4	0
		D	16.20	17.76	3.26	56	7.88	8	0
	5a	S	16.20	14.58	5.81	97	7.99	4	0
		D	16.00	14.94	6.00	100	7.99	8	0
	6	S	16.00	14.98	5.41	90	8.00	4-16	0
D		16.40	17.91	2.63	45	7.79	4-10	0	
7	S	16.30	11.26	5.65	90	7.99	5	185	
	D	16.60	16.46	3.68	63	7.82	7	0	
8	S	15.60	9.19	5.35	83	7.60	24-41	430	
	D	16.50	14.80	3.33	56	7.62	11-14	8	
9	S	17.00	5.04	3.97	69	7.45	30-1	710	
	D	15.60	1.78	4.22	60	7.10		910	
10	S	16.00	1.63	4.68	67	7.03	47-12	945	
12	S	15.40	0.79	4.68	66	6.90	33	1040	
13	S	14.70	0.89	5.53	77	7.00	35-16	1040	
4. vii	6	S	15.40	7.48	6.50	98	8.11	19	935
		D	16.40	17.72	1.10	19	7.74	16	53
13. vii	6	S	15.90	10.02	8.15	126	8.30	15	
		D	17.70	18.05	0.44	8	7.80	37	
25. vii	6	S	13.40	6.56	7.90	113	8.30	16-16	620
		D	16.50	18.03	0	0	7.69	51-0	0
1. viii	6	S	13.20	2.47	5.65	77	7.74	36-24	775
		D	16.27	17.33	0	0	7.51	55-0	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
5. viii	1	S	16.30	18.62	5.23	91	7.91	0	0
		D	16.20	19.49	5.72	100	8.20	0	0
	2	S	16.30	19.49	5.56	97	8.22	0-24	0
		D	16.30	19.50	5.56	97	8.22	0-24	0
	3	S	14.20	3.19	7.39	104	8.05	4	850
		D	15.20	9.56	6.82	105	8.04	15	600
	4	S	14.00	2.46	7.41	103	7.86	3-41	815
		D	16.50	18.69	2.50	44	7.86	11-29	24
	5	S	13.30	2.14	5.94	81	7.60	11	935
		D	16.50	15.83	1.75	30	7.53	35	62
	5a	S	13.80	2.18	5.53	76	7.60	36	805
		D	14.10	3.49	5.28	75	7.38	25	725
	6	S	12.80	2.08	5.23	71	7.41	16-37	910
D		15.30	14.91	1.97	32	7.29	27-13	85	
7	S	12.70	1.78	5.43	73	7.52	17	935	
	D	15.10	13.55	1.81	29	7.14	24	78	
8	S	12.60	1.16	5.56	74	7.31	21-24	965	
	D	13.30	3.86	3.24	45	7.09	31-30	775	
9	S	12.60	1.08	5.72	77	7.21	21	980	
	9a	S	12.60	1.17	6.23	84	7.11	76	965
10	S	12.50	1.17	6.12	82	7.14	26-6	965	
	12	S	12.40	1.42	6.48	86	7.24	11	965
13	S	12.10	1.44	6.45	85	7.31	16	965	
22. viii	6	S	13.70	2.05	6.03	71	7.62	30-23	925
		D	16.20	17.27	0	0	7.71	61-6	43
29. viii	6	S	16.80	2.87	7.85	95	8.24	23-40	119
		D	16.30	17.62	1.34	18	7.76	80-15	208
3- 4. ix	1	S	16.10	16.82	5.27	89	7.70	7	0
		D	15.80	19.04	5.75	99	8.24	4	0
	2	S	16.30	17.60	5.46	93	8.13	5-14	0
		D	16.40	17.68	5.24	90	8.21	3-24	0
	3	S	15.50	9.59	6.17	96	8.37	7	0
		D	15.80	15.38	4.87	81	8.24	5	0
	4	S	15.50	5.44	7.18	106	8.57	9-20	340
		D	16.20	18.17	2.76	47	8.05	23-6	180

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
3-4.ix	5	S	15.60	4.44	7.90	116	8.52	18	0
		D	16.40	18.09	0.47	8	7.94	56	0
	5a	S	15.40	3.73	6.56	95	8.28	19	262
		D	15.30	3.69	6.81	98	8.17	13	0
	6	S	15.40	2.81	6.45	92	7.96	16-33	105
		D	16.30	17.21	0.12	2	7.43	58-0	0
	7	S	15.30	1.82	5.75	81	7.84	47	130
		D	16.00	9.01	3.97	62	7.66	11	0
	8	S	15.20	1.29	5.08	72	7.72	44-9	195
		D	15.20	1.27	5.27	74	7.49	45-14	278
	9	S	15.40	0.60	5.35	75	7.30	45	72
		9a	S	14.90	0.52	5.20	72	7.03	40
	10	S	14.60	0.59	5.28	73	6.93	40-35	64
		12	S	14.20	0.56	5.53	76	6.99	13
	13	S	14.30	0.56	5.95	82	7.02	29	60
12.ix	6	S	18.00	1.54	5.63	65	8.26	29-6	80
		D	16.30	16.78	0	0	7.62	93-0	0
26.ix	6	S	18.10	5.63	5.87	75	8.18	12-17	120
		D	16.50	11.94	0	0	7.54	87-06	100
3.x	6	S	18.35	5.17	8.15	102	8.08		
		D	16.75		1.90		7.69		
7-8.x	1	S	18.00	15.70	5.36	93	8.04	12	13
		D	16.80	19.33	5.82	103	8.13	9	0
	2	S	18.80	12.03	5.60	94	8.13	9-11	0
		D	17.50	16.28	5.48	95	8.17	13-6	16
	3	S	18.75	9.82	5.73	94	8.13	14	0
		D	17.00	18.21	5.42	95	8.10	9	0
	4	S	18.75	8.80	5.45	89	8.16	21-4	0
		D	16.80	18.54	5.07	89	8.16	16-15	0
	5	S	19.80	8.31	5.91	97	8.20	19	0
		D	16.35	18.09	1.59	28	7.85	33	0
	5a	S	19.90	13.49	5.33	93	8.30	21	400
		D	16.90	17.30	0	0	7.85	66	0
	6	S	19.30	7.18	6.00	97	8.35	19-8	0
		D	16.70	17.52	0	0	7.87	48-6	530

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952									
7- 8. x	7	S	19.00	4.73	5.23	82	8.35	22	65
		D	17.00	17.03	0	0	7.73	88	100
	8	S	20.10	2.82	4.31	68	7.95	28-9	563
		D	21.00	6.10	3.00	49	7.84	16-22	59
	9	S	21.70	1.52	5.82	92	7.68	56	535
	9a	S	20.30	1.18	6.13	95	7.50	62	128
	10	S	20.10	1.17	4.92	76	7.32	44-10	366
	12	S	19.70	1.32	4.57	70	7.32	20	154
	13	S	19.60	1.27	5.07	78	7.15	17	154
10. x	6	S	18.60	8.62	4.83	60	8.13	5	0
		D	17.40	17.85	1.15	15	7.82	30	390
17. x	6	S	18.40		6.25		8.09		
		D	16.80		2.60		7.76		
24. x	6	S	19.20	9.04	5.63	70	7.33	9-17	
		D	18.00	14.52	3.87	50	7.32	18-14	
31. x	6	S	18.80	12.41	5.81	76	8.14	6-12	0
		D	18.60	12.94	3.40	41	8.75	12-9	0
7. xi	6	S	18.60	9.71	5.75	94	8.12	8-2	
		D	18.20	17.37	2.46	43	7.87	19-1	56
13. xi	1	S	19.85	17.36	5.36	98	8.08	8	0
		D	18.30	19.46	5.48	100	8.06	4	0
	2	S	20.90	15.63	5.75	105	8.16	5-4	0
		D	19.30	17.51	4.94	89	8.13	13-7	0
	3	S	21.10	14.88	5.48	99	8.15	5	0
		D	18.70	18.17	5.94	107	8.12	8	0
	4	S	21.45	14.17	5.48	99	8.13	11-3	0
		D	17.90	19.98	4.43	80	8.07	17-0	0
	5	S	21.20	13.43	5.48	98	8.09	17	0
		D	18.00	18.56	2.96	53	7.94	20	0
	5a	S	22.60	12.27	4.90	88	8.05	15	0
		D	20.80	13.57	4.60	82	7.98	11	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N	
1952 13. xi	6	S	21.40	10.91	4.77	83	8.04	16-5	0	
		D	18.30	17.92	2.84	51	7.85	21-0	0	
	7	S	21.35	9.63	5.30	91	8.10	20	0	
		D	20.00	15.01	4.43	79	7.92	25	0	
	8	S	23.30	5.96	3.82	65	7.99	17-13	0	
		D	22.25	8.10	0	0	7.76	34-2	0	
	9	S	23.30	2.30	3.72	61	7.82	31	18	
	9a	S	22.80	1.87	4.13	67	7.61	28	57	
	10	S	22.55	1.41	4.20	67	7.34	25-0	62	
	12	S	22.95	1.23	3.19	52	7.20	22	62	
	13	S	22.70	0.92	3.82	61	7.13	21	80	
	21. xi	6	S	20.60	16.95	5.05	93	8.15	13-15	0
			D	19.60	17.05	4.00	72	8.01	21-0	0
5. xii	6	S	20.40	14.31	5.03	89	8.26	26-27	0	
		D	20.10	18.43	4.28	80	8.24	24-16	0	
11. xii	1	S	20.70	18.46	5.36	100	8.00	7	0	
		D	19.80	19.74	5.36	100	8.14	4	0	
	2	S	20.80	19.04	5.36	101	8.16	7-4	2	
		D	20.60	19.27	5.45	103	8.14	5-7	0	
	3	S	21.30	16.89	5.51	100	8.14	7	0	
		D	20.80	17.38	5.54	101	8.13	7	0	
	4	S	21.60	16.57	5.48	102	8.12	8-8	0	
		D	20.70	18.23	5.18	97	8.12	5-13	0	
	5	S	20.10	16.36	5.29	96	8.12	7	0	
		D	21.50	18.83	3.53	67	8.00	8	0	
	5a	S	21.50	15.18	5.23	96	8.08	12	0	
		D	21.50	16.49	5.29	98	8.06	16	0	
	6	S	21.70	15.81	5.18	96	8.10	16-15	0	
		D	20.80	17.23	5.08	94	8.10	13-15	0	
	7	S	22.00	13.76	4.77	87	8.04	16	0	
		D	21.10	17.80	5.20	97	8.10	25	0	
	8	S	23.90	7.24	5.45	95	8.10	24-25	18	
	9	S	23.80	5.79	7.11	122	8.16	16	0	
9a	S	23.80	4.22	5.29	89	7.91	25	0		

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O ₂	O ₂ %	pH	PO ₄ -P	NO ₃ -N
1952 11. xii	10	S	23.20	2.28	5.05	83	7.54	20-17	0
	12	S	22.30	1.13	5.18	83	7.51	18	0
	13	S	22.60	1.12	3.98	64	7.24	13	0
19 xii	6	S	19.10	15.97	2.05	36	8.20	17-17	0
		D	19.30	17.01	0.91	16	8.24	13-27	0