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# OCEANOGRAPHICAL STATION LIST

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

## Volume 26

Estuarine Hydrological Investigations in  
Eastern and South-western Australia, 1954

Compiled by D. J. Röchford

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION, AUSTRALIA  
MELBOURNE 1956

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ESTUARINE HYDROLOGICAL INVESTIGATIONS IN EASTERN AND SOUTH-WESTERN  
AUSTRALIA, 1954

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## I. INTRODUCTION

The hydrological data contained in this volume were collected at Lake Macquarie; Botany Bay-Georges River-Shell Point, Port Hacking (New South Wales), D'Entrecasteaux Channel, Pittwater, Port Sorell (Tasmania), and Swan River, Peel-Harvey Inlet (south-western Australia), during 1954.

The records of continuous 24-hour sampling at Georges River-Shell Point and Swan River and of the analyses of bottom deposits at Lake Macquarie, Shell Point, Port Hacking, Pittwater, and Port Sorell are also given.

Hydrological sampling in Port Sorell commenced in 1954.

## II. METHODS

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

## III. TIDAL CORRECTIONS

The data in this volume have not been corrected to a constant tidal phase.

## IV. UNITS

Units are those given by Rochford (1951). All depths are given in metres unless otherwise stated.

## V. LOCATION OF STATIONS

The station locations are the same as in previous volumes. The positions of the sampling stations in Port Sorell are shown in Figure 1.

## VI. PERSONNEL

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

## VII. REFERENCE

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



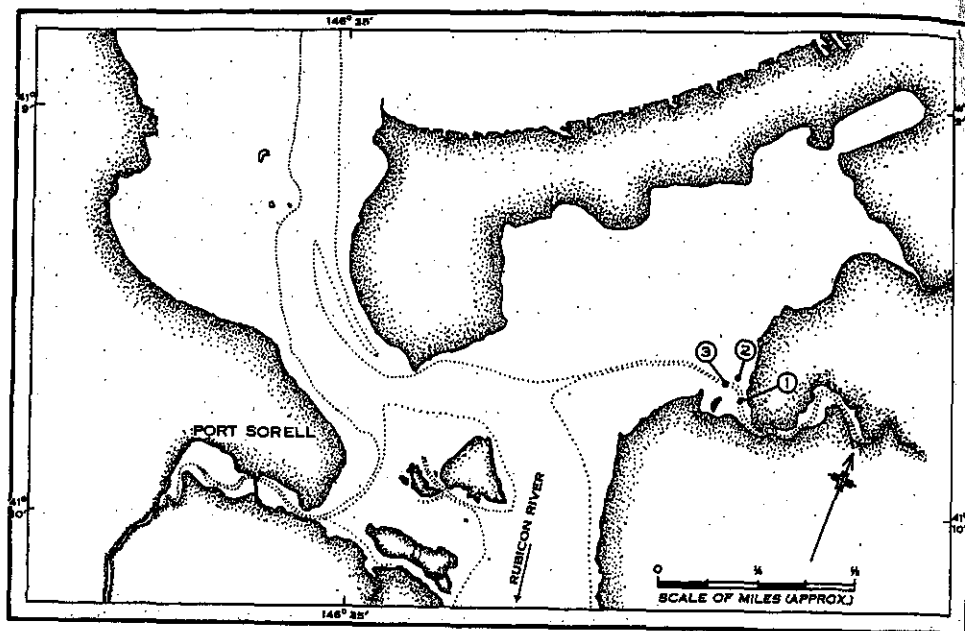


Fig. 1.—Location of sampling stations in Port Sorell.

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 26.1	L.25	0	25.90	20.07	4.51	94	7.70	17-0-0	0
	A.1	0	25.90	19.88	4.51	93	7.75	7-9-0	0
		6	25.60	19.98	4.45	92	8.13	11-5-4	0
	O.23	0	25.80	20.00	4.51	94	8.12	0-22-0	0
		8	25.10	19.89	4.51	92	8.10	8-15-4	0
	P.22	0	25.40	19.82	4.45	91	8.15	19-9-5	0
		8	24.90	19.87	4.56	93	8.18	14-6-2	0
	R.22	0	25.40	19.91	4.56	94	8.16	11-11- 2	2
		8	24.90	19.94	4.38	89	8.08	24-4-0	0
	B.2	0	25.30	20.10	4.45	92	8.15	9-17-0	0
		10	24.50	19.93	3.90	79	8.08	11-13- 13	0
	T.19	0	24.50	19.93	4.58	93	8.16	12-4-0	0
		8	24.20	20.00	4.48	90	8.12	24-0-3	0
	S.18	0	24.80	19.84	4.56	93	8.20	15-6-0	0
		10	24.20	19.93	4.36	88	8.13	15-1- 13	0
	S.16	0	24.90	19.71	4.50	92	8.18	10-6- 13	0
		9	24.50	19.62	4.58	92	8.14	17	0
	C.3	0	24.70	19.78	4.58	93	8.16	14-1-0	0
		10	24.50	19.84	4.38	89	8.18	20-9- 211	157
	Q.14	0	24.90	19.95	4.66	95	8.14	11-7-8	0
		9	24.60	19.88	4.58	93	8.10	22-0-1	0
	Q.13	0	24.90	19.78	4.45	91	8.21	0-24-5	1
		9	24.80	19.81	4.11	84	8.12	14-12- 72	62
	D.2	0	24.80	19.82	4.53	92	8.12	7-14-0	0
		10	24.70	19.77	4.41	89	8.20	11-11- 24	5
	O.9	0	24.90	19.95	4.35	89		3-22-0	0
		7	24.90	19.82	4.38	89	8.11	5-24-9	0
	N.8	0	25.20	19.75	4.29	88	8.12	3-24-0	0
		5	25.20	19.86	4.41	90	8.11	0-26- 11	0

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
26.1	M.7	0	25.80	19.68	3.81	79	8.20	12-16-0	0
	L.5	0	25.80	18.75	3.98	81	8.45	29-40-8	0
27.1	1	0	27.70	16.20	2.13	44	7.31	5	0
		3	28.70	18.74	0.00	0	7.42	338	0
	1A	0	28.80	15.98	1.09	23	7.23	15	0
		2	29.60	17.13	0.35	7	7.34	14	0
	2	0	28.90	16.00	2.28	48	7.25	18	0
		3	29.30	17.30	2.25	48	7.22	8	5
	3	0	28.20	16.23	2.37	49	7.31	9	0
		6	25.80	19.32	1.03	21	7.30	9	23
	4	0	27.20	16.69	1.73	35	7.45	14	0
		2	26.90	18.90	1.61	34	7.40	13	0
	5	0	27.30	16.86	3.07	63	7.49	6	0
		5	27.60	19.20	1.50	32	7.38	12	5
	6	0	27.50	17.61	2.88	60	7.52	3	0
		3	29.60	18.42	1.79	39	7.42	6	6
	7	0	27.60	18.10	3.87	81	7.70	9	0
		5	25.50	19.54	2.43	50	7.50	26	6
	8	0	27.20	18.47	4.04	84	7.92	9	0
	9	0	26.80	19.00	4.35	91	8.02	8	0
	10	0	25.90	19.52	4.24	88	7.92	8	5
	11	0	26.20	19.92	4.35	91	7.90	8	2
4.11	1A	0		16.53				97	0
15.11	1A	0		13.80				6	0
16- 17.11	L.25	0	25.20	19.33	4.78	97	8.09	2-15-11	0
	A.1	0	25.00	19.77	4.60	94	8.08	2-19-3	0
		6	24.40	19.07	4.53	91	8.08	2-20-5	0
	0.23	0	25.00	19.79	4.96	101	8.09	3-19-9	0
		8	24.30	19.93	4.04	81	8.06	2-10-13	0
	P.22	0	24.90	19.74	4.88	99	8.09	1-24-8	0
		10	24.20	19.96	4.55	92	8.09	4-11-30	0

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
16-	R.22	0	24.70	19.73	5.01	102	8.12	1-24-3	0
17.11		8	24.00	19.89	4.22	85	8.07	5-15-7	0
	B.2	0	24.80	19.72	5.11	104	8.10	4-30-0	0
		11	23.60	19.86	3.76	75	8.08	5-30-0	0
	T.19	0	24.50	19.66	5.14	104	8.11	5-20-9	0
		4	24.00	19.70	4.97	100	8.11	3-22-0	0
	W.19	0	25.40	19.63	5.42	111	8.07	4-23-0	0
	S.18	0	24.40	19.59	5.18	104	8.10	0-28-3	0
		9	22.70	19.70	4.31	85	8.10	4-30-2	0
	V.17	0	25.40	19.60	5.42	111	8.15	2-49-0	0
	S.16	0	24.20	19.69	4.96	104	8.09	2-26-0	0
		7	23.80	19.76	5.01	100	8.10	5-22-5	0
	C.3	0	24.20	19.67	4.96	100	8.09	4-21-3	0
		9	23.70	19.71	4.78	95	8.01	3-25-8	0
	Q.14	0	24.30	19.74	5.14	103	8.10	3-22-0	0
		9	22.70	19.72	4.60	90	8.11	4-24- 19	0
	Q.13	0	24.50	19.61	5.04	102	8.06	4-28-1	0
		9	23.90	19.75	3.85	77	8.05	5-0-17	0
	D.2	0	24.40	19.59	5.14	103	8.10	2-0-6	0
		8	23.80	19.68	4.60	92	8.08	5-0-13	0
	O.9	0	24.60	19.50	5.08	103	8.09	5-0-5	0
		6	23.40	19.69	4.18	83	8.06	5-0-10	10
	N.8	0	24.40	19.38	5.08	102	8.07	5-0-10	0
		5	23.80	19.56	4.34	86	8.05	9-0-10	41
	M.7	0	24.00	17.17	4.60	89	8.08	10-0- 10	165
	L.5	0	25.96	13.86	7.13	138	7.74	41-8- 14	342
	1	0	27.56	11.25	1.95	38	7.28	5-14- 14	0
	1A	0	27.64	9.46	2.41	46	7.42	6-26- 37	15
	2	0	27.60	15.56	1.34	27	7.39	10-32- 9	35
	3	0	27.24	10.50	2.41	46	7.21	6-42- 51	14
		6	26.20	19.17	1.11	23	7.34	3-18- 11	8

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
16-17.11	4	0	27.04	10.76	1.95	37	7.35	4-33-42	8
	5	0	28.30	10.78	2.72	53	7.49	2-25-13	93
	6	0	28.62	11.59	3.76	74	7.57	2-29-26	15
	7	0	25.88	10.24	4.67	87	7.72	7-18-14	10
	8	0	28.22	13.94	4.18	83	7.75	1-18-12	0
	9	0	26.68	14.94	4.73	94	7.85	1-14-7	0
	10	0	27.75	14.72	4.64	94	7.89	1-32-7	0
	11	0	26.52	19.73	4.24	89	8.04	1-30-12	0
24.11	1A	0		0.40				33	451
4.111	1A	0		1.07				27	11
11.111	1A	0		8.19					0
15-17.111	1	0	25.72	14.24	0.71	14	7.78	8-5-26	6
		2	25.76	15.62	0.74	15	7.41	7-18-20	26
	1A	0	26.16	11.80			7.36	46-3-54	3
		2	26.16	15.79	1.17	23	7.22	7-5-25	8
	2	0	25.76	11.73	1.17	22	7.30	18-11-42	16
		2	26.24	15.90	1.77	35	7.24	3-10-19	11
	3	0	26.86	13.36	1.94	38	7.37	9-23-1	6
		6	26.16	14.23	2.36	46	7.33	3-0-2	17
	4	S	27.70	14.01	4.13	82	7.36	3-10-26	4
		D	26.40	16.30	2.06	41	7.22	0-10-5	21
	5	S	28.30	8.01	3.98	75	7.38	9-24-14	25
		D	26.90	16.25	2.67	54	7.43	25-0-10	24

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 5-17-111 0	6	S	27.20	15.24	4.55	91	7.63	4-17-16	0
		D	26.20	16.94	5.20	105	7.69	7-0-13	11
	7	S	26.20	15.18	5.70	112	7.53	6-2-39	0
		D	26.20	17.20	4.52	91	7.51	6-9-10	20
	8	S	27.20	14.24	5.45	108	7.77	6-15-25	6
		S	24.30	13.51	5.24	98	7.84	6-15-14	6
	10	S	24.60	14.38	4.75	90	7.84	2-24-2	6
	11	S	26.40	13.39	5.49	106	7.85	2-13-21	6
		S	24.80	17.71	4.72	94	6.64	2-20-5	0
	L.25	S	24.40	17.78	4.98	98	6.19	2-13-15	0
		D	23.80	18.43	4.01	79	6.82	9-0-7	18
	O.23	S	24.20	17.69	5.03	99	7.73	0-7-6	0
		D	23.20	18.70	3.75	73	6.76	30-0-6	18
	P.22	S	24.20	17.75	5.03	99	7.91	2-8-7	0
		D	23.80	18.87	3.72	74	7.82	54-0-0	23
	R.22	S	24.00	17.82	5.16	101	8.00	1-0-7	0
		D	24.10	17.84	5.64	111	8.04	5-0-7	17
	B.2	S	24.00	17.85	5.11	100	8.06	2-4-4	0
		D	23.20	18.81	4.78	94	7.98	15-0-8	17
	T.19	S	23.80	18.00	6.15	121	8.05	3-0-11	0
		D	22.90	18.86	4.93	96	8.06	17-8-8	27
	W.19	S	22.40		4.97		8.21	2-11-2	
		S.18	S	23.80	17.97	5.03	99	8.09	1-28-4
	D		22.60	19.05	7.13	138	8.10	10-11-16	23
	V.17	S	22.40	19.37	5.24	102	8.15	3-14-3	0
		S.16	S	23.80	17.95	5.27	103	8.10	0-31-0
	D		22.80	18.93	6.07	118	8.07	17-15-10	12
	C.3	S	23.50	17.87	5.11	99	8.10	2-23-2	6
		D	23.00	18.87	5.76	113	8.06	29-11-20	21

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
15- 17.111	Q.14	S	23.80	17.92	5.31	104	8.09	6-7-14	18
		D	23.40	18.80	5.57	109	8.04	34-0- 60	30
	Q.13	S	23.80	17.82	5.14	101	8.07	3-14- 10	14
		D	23.20	18.78	5.64	110	8.01	34-0- 90	52
	D.2	S	23.70	17.82	5.24	102	8.07	1-13-7	0
		D	23.40	18.32	4.90	96	8.03	11-0- 17	3
	O.9	S	23.90	17.72	5.24	102	8.05	3-10-0	6
		D	22.40	18.13	4.49	86	8.01	40-0- 30	8
	N.8	S	24.00	17.73	5.00	98	8.02	1-17-0	7
		D	24.00	17.77	5.45	107	8.03	15-0- 30	3
	M.7	S		17.55	5.11		8.07	7-12- 14	0
	L.5	S	26.90	15.11	8.12	162	8.06	20-0- 47	6
8.iv	1A	0		13.44				43	11
12- 14.iv	L.25	0	23.20	18.12	5.01	97	7.93	3-5	21
	A.1	0	23.10	18.27	5.24	102	8.02	7-1	12
		6	22.80	18.41	5.10	98	7.98	5-20	18
	O.23	0	23.00	18.38	5.18	100	8.11	9-4	24
		7	22.70	18.48	4.93	95	8.06	2-13	15
	P.22	0	23.00	18.40	5.31	103	8.06	1-10	12
		8	22.70	18.68	4.36	84	8.09	8-20	10
	R.22	0	22.90	18.43	5.06	98	8.09	6-7	68
		7	22.60	18.56	4.93	95	8.11	9-2	20
	B.2	0	22.80	18.42	5.31	103	8.11	3-21	11
		12	22.20	19.15	4.25	82	8.12	9-4	12
	T.19	0	22.80	18.44	5.28	102	8.11	3-23	6
		9	22.30	18.96	4.70	91	8.12	9-0	11
	W.19	0	22.60	19.49	5.31	104	8.19	5-13	13
		S.18	0	22.80	18.60	5.36	104	8.11	5-18
			10	22.10	18.71	5.18	99	8.11	6-17

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
12-									
14.iv	V.17	0	22.80	18.62	5.51	107	8.16	7-9	39
		4	22.80	18.62	5.43	105	8.16	7-5	37
	S.16	0	22.60	18.64	4.96	96	8.16	6-7	135
		6	22.20	18.63	5.15	99	8.15	6-12	17
	G.3	0	22.10	18.59	5.35	102	8.21	6-7	0
		9	22.20	18.63	5.24	101	8.18	9-2	8
	Q.14	0	21.90	18.60	5.24	100	8.14	5-25	6
		9	22.20	18.60	5.03	97	8.13	7-0	6
	Q.13	0	22.10	18.57	5.18	99	8.14	8-14	12
		9	22.20	18.59	5.18	99	8.14	8-6	0
	D.2	0	22.10	18.44	5.24	100	8.13	7-20	3
		6	22.20	18.46	4.99	96	8.13	16-14	0
	O.9	0	22.20	18.40	5.18	99	8.10	9-7	0
		6	22.20	18.40	4.87	93	8.10	11-6	0
	N.8	0	22.20	18.36	5.06	97	8.09	7-7	0
		4	22.40	18.38	5.15	99	8.10	10-28	0
	M.7	0	22.30	18.30	5.24	100	8.08	17-14	18
	L.5	0	22.40	17.26	5.84	111	8.20	44-41	31
	1	0	27.40	16.99	0.30	6	7.69	7-10	2
	1A	0	27.40	17.03	1.13	23	7.59	3-16	4
	2	0	27.20	16.28	0.84	17	7.46	6-26	0
	3	0	25.60	16.45	0.69	137	7.39	5-13	0
		5	26.60	17.72	1.67	34	7.54	4-24	10
	4	0	25.60	16.50	2.14	42	7.54	6-26	5
		5	25.70	17.83	2.20	44	7.61	5-45	42
	5	0	25.40	16.47	2.97	59	7.55	3-25	2
	6	0	23.20	16.43	4.93	94	7.65	1-3	2
	7	0	23.40	16.54	4.12	79	7.63	1-13	10
	8	0	22.80	16.56	4.37	83	7.90	3-13	18
	9	0	22.70	16.78	4.67	88	7.88	1-14	55
	10	0	22.60	17.52	4.93	94	7.91	1-8	12
22.iv	1A	0		16.40				30	11
29.iv	1A	0		16.63				22	9

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
18-	L.25	0	17.20	18.57	6.20	109	7.94	0-14-5	11
19.v	A.1	0	15.90	18.89	5.67	98	8.10	2-12-2	6
		6	16.90	18.89	5.67	100	8.10	5-14-2	6
	O.23	0	16.80	18.87	5.78	102	8.07	5-7-11	2
		8	16.80	18.87	5.72	101	8.05	5-9-5	5
	P.22	0	17.10	18.96	5.67	100	7.98	6-10-3	0
		9	17.10	18.97	5.72	101	8.07	6-8-1	60
	R.22	0	17.00	18.97	5.67	100	8.01	5-8-2	5
		8	17.00	18.98	5.72	101	8.07	6-6-1	0
	B.2	0	17.20	18.93	5.83	103	8.11	4-11-0	11
		10	18.00	19.17	5.61	101	8.00	6-19-0	10
	T.19	0	17.40	19.00	5.86	104	8.14	3-5-5	2
		8	17.70	19.15	5.81	104	8.14	5-3-13	0
	W.19	0	16.60	19.58	5.89	104	8.07	6-7-1	3
	S.18	0	17.40	19.10	5.95	106	8.15	4-2-5	6
		12	17.50	19.10	5.89	105	8.15	4-12-2	0
	V.17	0	17.30	19.07	6.00	107	8.15	6-7-4	2
		3	17.30	19.05	5.95	106	8.15	5-8-5	7
	S.16	0	17.20	19.09	5.95	106	8.15	3-5-5	2
		7	17.30	19.11	5.95	106	8.15	4-8-7	0
	G.3	0	17.30	19.08	6.00	107	8.09	5-9-0	4
		10	17.40	19.14	5.89	105	8.13	7-1-3	5
	Q.14	0	17.60	19.02	5.89	105	8.06	4-11-3	3
		10	17.70	19.05	5.78	103	8.06	5-25-4	8
	Q.13	0	17.50	18.96	5.91	105	8.01	5-3-5	4
		9	17.50	19.00	5.91	105	8.03	11-5-5	16
	D.2	0	17.50	18.94	5.89	105	8.07	10-16-6	8
		8	17.30	18.88	5.83	103	8.07	8-9-4	18
	O.9	0	17.30	18.93	5.89	104	8.02	4-6-4	45
		7	17.20	18.93	5.95	105	8.05	6-9-4	17
	N.8	0	17.20	18.92	5.89	104	7.90	2-11-1	7
		5	17.20	18.87	6.00	106	7.59	4-11-0	10
	M.7	0	17.40	18.74	6.00	106	7.56	4-14-5	19
	L.5	0	18.60	17.43	7.24	129	7.87	5-39-4	379

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
18-	1	0	21.00	17.30	2.13	40	7.59	2-21-1	9
19.v		3	19.60	17.27	1.87	34	7.77	3-11-0	5
	1A	0	20.20	17.12	2.69	49	7.50	2-33-	7
								23	
	2	3	18.20	17.57	2.49	44	7.48	2-45-0	9
		0	20.30	17.52	2.98	55	7.46	3-23-0	11
		2	19.70	17.93	3.36	61	7.49	2-11-6	14
	3	0	19.90	17.44	3.25	59	7.50	1-15-0	9
		6	19.50	18.16	3.42	63	7.39	1-18-0	9
	4	0	19.90	17.23	2.75	50	7.50	2-23-3	9
		2	19.50	17.89	3.52	64	7.49	2-14-0	7
	5	0	19.90	17.14	3.42	62	7.76	2-25-0	3
		5	19.30	18.18	4.75	87	7.72	2-16-0	23
	6	0	17.60	16.82	4.57	80	7.73	1-12-2	5
		3	19.30	18.32	5.43	99	7.75	0-14-0	11
	7	0	17.30	17.22	5.19	90	7.73	0-19-4	7
	8	0	17.30	17.66	5.95	104	7.75	1-15-8	5
	9	0	16.40	17.46	5.89	101	7.84	0-10-0	3
	10	0	16.40	17.42	5.95	102	7.84	0-16-3	6
	11	0	16.60	18.22	5.78	101	7.89	0-13-2	6
3.vi	1A	0		16.65				51	19
17.vi	1A	0		17.52				1	
21-	L.25	0	13.30	19.17	6.41	106	8.05	5-7-15	3
23.vi	A.1	0	13.30	19.08	6.46	107	8.15	4-5-6	0
		6	12.30	19.08	6.50	106	8.16	4-4-7	86
	O.23	0	13.10	19.10	6.32	104	8.17	4-2-16	32
		8	12.90	19.10	6.49	107	8.18	5-17-	8
								18	
	P.22	0	12.90	19.10	6.38	105	8.18	4-10-4	22
		9	12.70	19.09	6.38	105	8.12	3-10-	2
								45	
	R.22	0	13.10	19.11	6.44	106	8.12	2-14-2	2
		9	13.20	19.13	6.32	105	8.11	4	54
	B.2	0	13.20	19.13	6.46	107	8.11	2-8-5	3
		11	13.60	19.38	6.40	107	8.13	4-15-0	10

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
21-	T.19	0	13.20						
23.vi		11	13.70						
	W.19	0	13.90	19.41				4-0-13	11
	S.18	0	13.20	19.40	6.61	110	8.15	3-15-0	30
		11	13.70	19.40	6.45	108	8.15	3-8-1	15
	V.17	0	13.20	19.57	6.46	108	8.13	8-1-0	15
		5	14.90	19.54	6.58	113	8.15	1-20-0	18
	S.16	0	14.30	19.47	6.41	109	8.20	2-12-0	14
		6	14.50	19.39	6.36	108	8.17	5-2-6	2
	C.3	0	13.40	19.33	6.53	109	8.16	7-13-2	2
		11	13.40	19.33	6.56	109	8.17	7-0-10	3
	Q.14	0	12.80	19.31	6.57	108	8.21	3-11-2	0
		10	12.30	19.30	6.44	105	7.99	5-10-6	0
	Q.13	0	12.70	19.27	6.60	108	8.17	4-6-0	0
		9	12.50	19.28	6.49	106	8.20	4-0-10	19
	D.2	0	12.70	19.23	6.53	107	8.15	4-4-3	10
		8	12.60	19.28	6.60	108	8.06	5-33-20	4
	O.9	0	12.40	19.21	6.73	110	7.96	5-5-2	0
		6	12.10	19.19	6.77	110	8.18	4-14-6	0
	N.8	0	12.40	19.20	6.57	107	8.29	4-11-1	0
		5	12.40	19.21	6.73	110	8.27	3-15-8	0
	M.7	0	12.30	19.04	7.14	116	8.26	2-10-10	10
	L.5	0	13.10	18.34	8.03	131	8.28	5-39-8	5
	1	0	16.30	17.70	1.15	20	7.73	0-20-14	96
	1A	0	16.30	17.34	1.01	17	6.96	2-39-8	13
	2	0	15.10	17.54	1.63	27	7.03	2-20-18	14
	3	0	14.20	17.73	1.85	31	7.12	1-19-10	9
		5	14.80	18.02	4.56	77	7.30	2-10-10	4
	4	0	14.40	17.81	3.24	54	7.35	2-26-0	0
	5	0	14.40	17.55	4.53	75	7.43	0-16-12	4
		4	14.80	18.03	5.33	90	7.54	3	0

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
21- 23.vi	6	0	13.40	17.69	3.68	60	7.57	2-10- 23	3
	7	0	12.80	17.56	3.79	61	7.56	1-12- 31	3
	8	0	12.70	17.94	5.39	87	7.66	1-5-15	17
	9	0	11.30	17.92	5.99	94	7.75	1-14-0	2
	10	0	11.70	18.41	6.32	101	7.87	1-19-8	8
	11	0	12.00	18.35	6.70	108	7.90	2-15-0	0
24.vi	1A	0		16.34					4
1.vii	1A	0		17.62				67	0
8.vii	1A	0		19.05				32	2
15.vii	1A	0		8.30				6	2
19- 21.vii	L.25	0	13.30	18.66	2.82	46	8.08	4-4-10	3
	A.1	0	13.30	18.60	3.41	56	7.80	3-16-4	5
		6	13.20	18.77	5.55	91	8.10	4	20
	O.23	0	13.30	18.75	2.09	34	8.11	3-5-3	9
		8	13.30	18.78	2.38	39	8.08	3	7
	P.22	0	13.30	18.75	4.44	73	8.08	2-7-11	16
		9	13.40	18.77	3.13	52	8.08	6	13
	R.22	0	13.50	18.75	3.48	58	8.10	2-12- 10	13
		7	13.60	18.91	5.68	95	8.06	3-14-4	20
	B.2	0	14.00	18.91	5.15	86	8.11	3	14
		11	14.10	19.05	5.96	100	8.11	3-4-6	25
	T.19	0	14.00	18.94	5.79	97	8.09	3-8-1	9
		11	14.00	19.03	5.49	92	8.09	4-10- 12	10
	S.18	0	13.80	18.91	5.73	96	8.07	3-5-7	10
		12	16.40	19.49	5.57	98	8.08	4	12
	V.17	0	15.00	19.20	5.70	97	7.86	3-5-6	6
		5	15.10	19.30	5.79	99	7.98	3	4

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
19-	S.16	0	14.70	19.01	5.90	100	8.06	3-7-4	4
21.vii		10	15.00	19.17	4.28	73	8.02	3-12-0	17
	C.3	0	13.90	18.97	5.83	98	8.08	2-11-4	10
		10	14.10	19.08	1.87	31	8.02	3-7-13	0
	Q.14	0	13.90	18.98	5.73	96	7.94	1-13-7	5
		10	14.10	19.02	6.03	101	8.03	2-12-5	10
	Q.13	0	13.90	19.01	5.70	95	7.95	2-12-8	10
		10	13.90	18.98	3.87	65	8.04	2-7-12	11
	D.2	0	14.00	14.84	6.09	97	8.35	1-10-8	8
		8	13.70	18.89	6.09	102	8.02	2-10-14	0
	O.9	0	14.00	18.81	6.09	102	7.86	1-9-8	53
		6	13.80	18.81	6.09	102	7.96	2-7-9	5
	N.8	0	14.40	18.36	6.35	107	8.22	2-12-14	14
		5	14.00	18.60	6.15	103	8.04	2-21-12	8
	M.7	0	13.80	18.52	5.94	99	7.99	2-26-6	8
	L.5	0	14.20	15.51	5.40	87	7.88	13-14-17	228
	1	0	15.40	15.23	1.84	30	7.73	2-4-21	27
	1A	0	15.50	16.78	1.23	21	7.70	2-15-0	14
	2	0	15.50	14.00	2.55	41	7.89	3	29
	3	0	15.60	14.54	2.95	48	8.02	2	13
		6	15.20	18.27	1.69	29	7.81	4	20
	4	0	15.50	16.85	1.98	33	7.84	3	7
	5	0	15.10	16.21	2.32	38	7.87	1-8-6	9
		5	15.20	18.41	2.13	36	7.75	2	29
	6	0	15.50	17.36	4.02	68	7.84	1	11
	7	0	14.80	18.21	4.05	68	7.95	1	39
	8	0	14.80	17.85	5.55	93	8.01	1-21-5	7
	9	0	14.00	16.13	5.52	89	8.07	1-7-0	19
	10	0	13.00	15.52	4.79	76	7.86	3-5-9	21
		3	13.50	18.40	5.40	89	8.05	4-10-5	3
	11	0	13.30	15.42	5.20	83	8.05	1	20
29.vii	1A	0		17.57				38	0

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl <sup>o</sup> /oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
5.viii	1A	0		17.21				31	18
16-	L.25	0	13.40	18.74	6.00	99	8.30	5-4-20	9
17.viii	A.1	0	13.70	18.78	5.96	99	8.30	5-8-0	9
		6	13.30	18.84	6.00	99	8.20	10-0-	12
								21	
	O.23	0	14.00	18.80	5.96	103	8.20	5-2-4	7
		7	13.10	18.82	5.96	98	8.30	5-4-8	8
	P.22	0	13.90	18.86	5.96	100	8.30	5-6-3	7
		8	13.40	18.91	5.96	99	8.30	8-1-0	6
	R.22	0	14.70	18.87	5.92	100	8.30	7-12-	9
								35	
		7	13.90	18.90	5.92	99	8.30	7-2-34	7
	B.2	0	14.10	18.86	5.96	100	8.20	5-5-4	8
		9	14.15	19.14	5.94	100	8.20	8-6-48	8
	T.19	0	14.00	18.92	5.92	99	8.20	3-19-3	8
		10	14.30	19.06	6.03	101	8.20	6-7-1	9
	S.18	0	14.00	19.08	6.06	102	8.10	6-19-3	9
		10	14.40	19.25	5.79	98	8.20	8-3-0	10
	V.17	0	14.70	19.17	6.03	103	8.20	6-9-4	8
		5	14.30	19.17	6.03	102	8.20	6-10-5	8
	S.16	0	14.10	19.15	5.96	100	8.35	5-4-2	7
		10	14.10	19.16	5.57	94	8.30	5-5-25	21
	C.3	0	13.80	19.07	6.42	108	8.35	4-7-1	9
		10	14.80	19.28	6.06	103	8.35	10-1-	14
								403	
	Q.14	0	13.40	18.98	6.35	105	8.30	6-5-6	9
		10	13.40	19.05	5.63	94	8.35	8-3-45	15
	Q.13	0	13.00	19.02	6.30	104	8.25	3-8-0	9
		9	13.25	19.00	6.22	103	8.25	3-5-7	10
	D.2	0	13.60	18.96	6.97	116	8.35	5-5-27	7
		8	13.20	18.96	6.89	114	8.30	2-7-1	7
	O.9	0	13.20	18.94	7.08	117	8.40	5-16-0	10
		6	13.40	18.93	6.51	108	8.40	4-1-1	10
	N.8	0	13.20	18.87	7.41	122	8.38	5-0-3	17
		5	13.10	18.94	7.14	118	8.44	4-0-0	14
	M.7	0	13.90	18.37	7.69	128	8.46	5-13-4	36
	L.5	0	15.50	17.39	7.54	127	8.50	14-0-5	78

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
16-	1	0	18.80	17.07	1.80	32	7.80	10-5-3	10
17.viii	1A	0	19.00	17.09	2.19	39	7.50	20-0-0	10
	2	0	18.90	17.09	2.60	46	7.80	20-0-	10
								15	
	3	0	17.90	16.78	1.72	30	7.70	35-0-0	9
		5	17.50	17.84	4.32	76	8.10	14-16-	11
								0	
	4	0	18.50	17.23	2.43	43	7.70	30-0-0	12
	5	0	18.20	16.64	4.67	82	7.90	11-8-0	11
		3	16.80	18.14	5.87	102	8.10	8-1-2	11
	6	0	16.80	17.03	5.06	84	7.90	7-6-1	10
	7	0	15.50	16.39	4.56	76	7.70	13-0-3	6
	8	0	14.50	16.92	5.57	92	7.90	5-20-4	7
	9	0	14.10	17.06	6.14	101	8.10	5-24-1	8
	10	0	13.50	17.76	6.72	110	8.10	3-6-7	9
	11	0	14.70	17.77	7.05	118	8.30	2-28-0	10
19.viii	1A	0		17.58				22	20
2.ix	1A	0		16.69				28	0
10.ix	1A	0		15.97				163	0
20-	L.25	0	15.80	18.80	6.02	104	7.60	1-6-0	4
23.ix	A.1	0	15.70	18.66	6.00	103	7.60	2-3-4	5
		6	15.80	18.90	6.00	104	7.90	3-16-5	4
	O.23	0	15.70	18.95	6.25	108	7.90	3-8-0	1
		7	15.70	18.95	6.06	105	7.90	8-0-1	0
	P.22	0	15.80	18.95	6.13	106	8.00	3-9-3	1
		9	15.60	19.05	5.93	102	8.00	3-12-5	4
	R.22	0	15.90	19.05	6.00	104	8.00	3-1-1	7
		7	15.70	19.05	2.60	45	8.00	2-5-0	5
	B.2	0	16.20	19.05	5.93	103	8.00	1-5-7	4
		10	15.70	19.15	5.93	102	7.80	4-0-0	0
	T.19	0	15.80	19.44	6.13	107	8.00	2-3-7	6
		7	15.60	19.17	6.25	108	8.10	0-4-2	7
	W.19	0	15.60	19.19	6.06	105	8.17	4-0-3	1

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 20-7- 3-ix	S.18	0	15.80	19.19	6.06	105	8.10	5-0-1	2
		11	16.00	19.29	6.18	108	8.00	1-4-4	10
	V.17	0	16.40	19.19	6.18	108	8.10	3-7-13	7
		5	16.20	19.19	5.93	104	7.90	3-8-0	7
	S.16	0	15.80	19.15	5.88	102	8.00	1-4-0	15
		8	16.00	19.19	6.06	105	8.20	1-14-0	0
	C.3	0	15.80	19.19	5.22	90	8.30	3-4-2	0
		9	15.80	19.15	5.91	102	8.30	2-11-10	0
	Q.14	0	15.80	19.19	4.44	77	8.20	3-0-11	0
		10	15.80	19.19	5.95	103	8.30	5-0-0	0
	Q.13	0	15.90	19.19	6.06	105	8.30	4-1-0	0
		10	15.80	19.19	5.82	101	8.30	5-0-0	0
	D.2	0	15.80	19.10	6.10	106	8.20	2-5-2	1
		8	15.80	19.19	5.38	93	8.10	5-0-8	0
	O.9	0	15.80	19.15	5.64	98	8.30	4-4-4	0
		6	15.70	19.15	5.77	100	8.30	4-1-1	0
	N.8	0	15.80	19.05	5.87	102	8.10	2-4-0	1
		7	15.70	19.10	5.88	102	8.10	4-17-2	0
	M.7	0	15.80	18.95	5.50	95	8.30	8-5-33	21
	L.5	0	16.10	17.87	6.02	103	8.20	13-18-11	73
	1	0	19.80	13.38	2.76	48	6.50	9-8-0	21
	1A	0	20.10	14.52	1.47	26	5.40	283-187-30	1
	2	0	19.40	14.67	3.27	57	6.70	45-21-0	17
	3	0	18.40	13.53	3.85	65	6.90	18-26-0	10
	4	4	18.80	17.38	3.63	65	7.00	3-10-0	4
		0	18.80	14.75	5.82	101	7.00	15-16-8	9
	5	0	17.60	15.17	4.85	83	7.10	13-8-0	14
		3	19.10	17.09	5.17	92	7.30	2-21-0	11
	6	0	17.60	15.64	5.75	99	7.30	8-16-0	4
	7	0	17.20	16.13	4.10	70	7.50	4-1-14	11
	8	0	17.10	16.25	6.22	107	7.60	1-4-2	

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>
1954									
20-	9	0	16.80	17.28	6.17	91	7.60	1-2-2	11
23.ix	10	0	16.30	17.77	4.41	76	7.60	1-4-4	11
	11	0	16.30	17.71	6.18	106	7.70	1-3-2	11
30.ix	1A	0		12.43				52	27
19-	L.25	0	18.10	18.20	5.17	92	8.08	0-6-9	9
20.x	A.1	0	18.60	18.69	5.20	94		1-9-3	9
		7	18.60	18.74	5.20	94	8.00	3-7-3	10
	O.23	0	18.30	18.50	5.11	92	8.08	9-0-0	13
		9	18.70	18.69	4.38	79	7.84	7-0-1	10
	P.22	0	17.40	18.69	5.25	93	8.10	2-4-9	12
		9	18.60	18.84	5.25	95	8.04	2-3-9	13
	R.22	0	17.50	18.74	5.20	92	8.08	1-8-6	12
		8	17.50	18.84	5.20	93	8.03	1-4-3	11
	B.2	0	18.10	18.89	4.95	89	8.15	0-3-9	10
		12	19.10	18.94	5.12	94	8.07	0-7-0	16
	T.19	0	19.00	19.04	5.23	96	8.15	6-0-2	12
		11	18.90	18.99	5.12	93	8.13	6-0-7	21
	W.19	0	15.40		5.59		7.73	0-10-9	37
	S.18	0	19.00	19.04	5.12	94	8.15	1-6-19	12
		11	19.00	19.04	5.30	97	8.14	7-5-8	12
	V.17	0	14.50	19.48	4.66	79	8.12	6-0-8	62
		5	15.60	19.43	4.66	81	8.13	16-0-4	70
	S.16	0	19.10	19.04	5.30	97	8.14	4-1-18	11
		10	18.80	19.04	2.69	49	8.13	6-0-6	12
	C.3	0	18.90	19.04	5.49	100	8.15	0-6-2	11
		10	18.80	19.04	5.18	95	8.13	0-1-8	13
	Q.14	0	18.90	19.04	5.63	103	8.16	4-0-0	11
		10	18.80	19.04	5.70	104	8.17	0-0-3	12
	Q.13	0	17.80	18.99	6.07	109	8.13	4-0-0	11
		10	17.80	19.04	5.37	96	8.16	3-0-0	10
	D.2	0	19.10	18.89	5.90	108	8.04	2-5-1	8
		8	18.70	19.04	5.94	108	8.11	4-0-0	11
	O.9	0	18.70	19.04	5.88	107	8.10	3-7-8	9
		7	18.90	18.99	5.49	100	8.09	4-2-2	9

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 19- 20.x	N.8	0	19.10	18.50	5.63	103	8.08	5-1-8	13
		5	19.00	19.04	5.32	97	7.86	7-0-0	11
	M.7	0	19.00	14.84	5.45	95	8.12	12-0-0	56
		L.5	0	19.00	3.55	4.46	69	7.87	19-30- 10
	1	0	19.00	2.06	4.33	66	7.31	2-20- 19	55
		1A	0	20.00	2.22	2.05	32	7.93	275- 178-7
	2	0	20.40	1.86	3.09	48	6.53	11-30- 36	27
		3	0	20.60	2.01	2.96	46	7.25	1-44- 26
	4		5	21.60	15.83	0.40	7	7.01	6-0-9
		0	20.60	4.37	2.63	42	6.96	8-33- 22	31
	5	0	20.70	8.08	2.10	35	7.27	8-6-7	32
5		22.40	17.07	0.32	6	7.68	7-1-5	8	
6	0	21.20	4.62	2.33	38	7.48	9-36-7	53	
	7	0	20.80	3.14	1.22	19	7.72	5-23- 26	46
8		0	20.10	3.04	2.79	44	6.85	9-33-0	54
	9	0	18.90	3.91	5.66	88	7.82	4-13- 48	44
10		0	19.10	5.49	3.43	54	7.87	12-36- 11	0
	11	2	18.80	17.71	3.01	54	8.04	1-4-0	8
0		21.10	4.16	5.83	94	6.81	3-14- 60	51	
15- 17.x1	A.1	0	24.20	18.07	5.47	108	8.06	0-29-5	7
		6	22.30	18.56	3.99	77	7.86	4-19-4	7
	P.22	0	22.80	18.26	5.41	104	8.06	1-22- 16	7
		8	23.70	18.31	5.47	107	8.06	3-10- 24	7
	B.2	0	23.70	18.46	5.47	105	8.07	3-37-0	7
		11	20.60	19.15	4.71	89	8.05	5-18- 12	7

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954										
15- 17.xi	W.19	0	21.80	19.36	5.72	110	8.17	5-25-3	8	
	V.17	0	23.40	18.70	5.60	110	8.10	1-9-0	6	
		5	23.40	18.61	5.52	108	8.13	2-7-10	7	
	C.3	0	23.10	18.71	5.35	104	8.10	7-11-0	7	
		9	22.20	18.71	5.29	102	8.11	3-8-8	6	
	D.2	0	23.40	18.70	5.19	102	8.08	0-3-9	7	
		8	22.90	18.66	5.13	100	8.10	1-14-4	8	
	N.8	0	23.90	18.46	5.24	103	8.07	0-9-12	9	
		5	23.60	18.71	4.89	96	8.03	9-4-3	7	
	L.5	0	26.30	15.76	7.44	148	7.59	34-7-	104	
								33		
		1	0	25.70	3.50	3.65	63	7.13	10-9-	34
								13		
		3	0	26.40	6.78	2.79	51	7.10	9-14-	17
								36		
		3	21.60	17.77	0.00	0	7.25	15-2-	9	
							76			
	5	0	28.20	6.32	2.43	45	7.16	10-33-	11	
							9			
	8	0	27.80	9.14	4.43	84	7.71	3-22-	16	
							6			
2.xii	1A	0		11.74				47		
13- 14.xii	A.1	0	24.40	18.78	4.47	89	8.00	6-0-0		
		6	23.70	18.78	4.61	91	8.14	8-5-2		
	P.22	0	24.10	18.88	4.67	93	8.12	5-0-0		
		7	23.92	19.12	3.41	68	8.11	6-0-0		
	B.2	0	24.30	18.92	4.76	95	8.17	10-0-6		
		9	22.00	19.26	4.15	80	8.17	15-0-0		
	W.19	0	23.10	19.07	4.49	88	8.19	6-1-6		
	V.17	0	23.20	19.12	5.02	99	8.22	3-5-7		
		2	23.20	19.07	5.15	101	8.21	4-1-4		
	C.3	0	24.00	19.12	4.88	97	8.16	12-0-0		
	9	20.49	19.46	4.58	86	8.16	15-0-0			
D.2	0	24.20	19.12	4.82	96	8.16	11-0-0			
	7	23.50	19.07	4.61	91	8.17	10-0-6			

Location: LAKE MACQUARIE

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954	N.8	0	24.20	19.12	4.76	95	8.17	10-0-3	
		5	24.20	19.12	4.78	95	8.16	13-0-0	
11.11	L.5	0	24.20	18.29	4.73	93	8.20	5-0-0	
	1	0	28.60	12.92	1.46	29	7.84	43	
	1A	0	26.30	13.51	1.15	22	7.65	40	
	3	0	25.40	14.00	1.87	36	7.59	23-6- 26	
		3	26.80	17.37	0.29	6	7.54	21-4-1	
	5	0	26.80	14.83	2.74	54	7.53	12-1-0	
		3	27.30	17.03	2.29	47	7.61	5-1-1	
	8	0	25.40	15.71	3.96	78	7.71	6-0-0	
26.xii	1A	0		15.83				0	78
30.xii	1A	0		6.26				0	40

Location: LAKE MACQUARIE

Date	Station	Int. P.	Ada. P.	Total P.	Total Fe	Org. C.	Total N.	% Sit.
1954								
26.i	1			457	46.0	62	3.6	9
	2			2200	59.2	31	4.0	0.5
	3			502	56.0	72	3.5	17
	4			1856	54.0	47	3.0	5
	5			2475	54.0	36	4.7	3
	6			1141	43.4	62	5.0	3
	7			1714	43.2	54	3.3	2
	8			1142	32.2	56	3.4	5
	9			799	57.1	43	3.9	7
	10			446	52.0	39	2.8	55
	11			1092	110.0	73	3.9	23
18.v	A.1	9.75	40	520	9.0	27	2.6	92
	O.23	6.5	48	533	9.3	27	4.0	93
	P.22	14.5	46	544	10.9	23	2.8	97
	R.22	2.75	78	709	9.0	26	3.5	31
18.v	1	0.25	38	277	18.1	39	3.2	4
	1A	0	27	428	16.5	41	3.6	3
	2	0	36	534	15.3	60	4.9	2
	3	10.25	108	297	14.8	53	3.0	66
	4	1.75	54	271	17.3	57	3.0	34
	5	8.5	46	262	16.0	45	2.5	66
	6	2.75	43	226	16.3	57	3.0	37
	7	0	41	348	15.6	55	5.5	11
	8	0	51	569	18.3	57	6.0	2
	9	0	36	783	16.4	59	8.4	0.5
	10	0	67	656	16.5	59	6.5	0.5
11	0.25	22	475	16.1	47	5.1	4	
22.vi	L.25	2.25	22	455		40	3.9	68
	A.1	20.5	11	427	16.6	17	2.6	76
	O.23	3.0	115	286	37.2	14	2.8	78
	P.22	2.5	29	317	16.6	24	2.9	95
	1	0.5	35	642	13.8	54	4.2	3
	1A	0.25	88	341	21.5	60	3.3	4
	2	0	28	497	14.8	59	3.9	65
	3	3.5	64	237	20.2	29	1.2	85

Location: LAKE MACQUARIE

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1954								
22.vi	4	9.5	128	609	17.3	65	3.4	78
	5	2.75	103	842	15.4	62	3.1	94
	6	4.0	71	455	15.4	63	3.0	55
	7	2.75	21	603	17.9	64	4.2	42
	8	0	72	284	11.5	51	4.6	2
	9	0.5	0	303	5.3	41	3.2	4
	10	0	59	461	13.7	72	8.3	4
	11	0.1	43	361	17.3	54	5.5	4
19.vii	0.9	8.75	28	253	11.8	15	2.8	96
	N.8	7.5	49	248	11.8	20	3.1	50
	M.7	3.75	46	280	10.9	27	2.5	83
	L.5	1.25	218	720	9.0	21	2.8	10

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>
1954									
13-14.1	1	S	20.90	19.60	5.17	98	8.06	6-14	0
		D	20.10	19.64	5.00	94	8.07	6-10	0
	2	S	21.30	19.44	5.62	107	8.24	23	0
		D	21.10	19.57	5.34	102	8.28	5	0
	3	S	20.90	19.62	5.08	96	8.09	9	1
		D	20.90	19.60	5.08	96	8.06	12	1
	4	S	21.10	19.03	5.46	103	8.22	5-20	8
		D	21.20	19.46	5.46	104	8.22	3-18	0
	5	S	21.40	19.47	5.78	111	8.25		
		D	21.20	19.47	5.78	110	8.22	3	11
	6	S	21.20	19.43	5.05	96	8.13	4	0
		D	21.20	19.47	5.00	95	8.16	11	7
	7	S	21.20	19.41	4.94	94	8.06	12-41	2
		D	21.20	19.42	4.89	93	8.23	13-30	0
	8	S	21.40	19.41	4.83	92	8.13	14-16	4
		D	21.20	19.41	4.71	90	8.13	29-79	1
9-10.11	1	S	22.40	19.64	5.02	98	8.16	37-39	8
		D	18.40	19.61	4.69	86	8.21	7-11	42
	2	S	22.10	19.53	4.60	89	8.15	65	20
		D	22.00	19.68	5.12	99	8.17	9	1
	3	S	23.10	19.65	4.37	86	8.18	30	9
		D	23.10	19.69	4.36	86	8.18	6	4
	4	S	22.90	19.64	5.03	99	8.16	34-23	7
		D	22.90	19.66	5.03	99	8.16	5-26	5
	5	S	23.60	19.70	4.77	95	8.15	18	6
		D	23.40	19.70	4.86	96	8.16	6	0
	6	S	23.30	19.80	4.52	90	8.13	21	5
		D	24.20	19.84	4.52	91	8.07	11	8
	7	S	24.20	19.78	4.57	92	8.09	25-21	6
		D	24.00	19.89	4.54	91	8.09	11-17	2
	8	S	24.40	19.81	4.46	90	8.07	32-26	8
		D	24.40	19.82	4.49	91	8.08	14-25	8
10	S	25.50	19.15	3.85	79	7.75	6-29	9	
	D	24.00	19.16	3.85	77	7.82	7-20	22	
12	S	26.00	15.78	3.77	75	7.50	6-11	135	
	D	26.00	15.93	3.74	74	7.56	5-16	122	
16	S	26.00	9.64	3.10	58	7.54	3-12	262	
	D	26.00	9.94	3.21	60	7.38	3-17	370	

Station: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 3-11	1	S	21.00	19.61	5.11	97	8.13	16-8	4
		D	21.10	19.62	5.20	99	8.15	4-9	0
	2	S	21.00	19.05	5.20	98	8.18	3	4
		D	20.70	19.04	5.58	105	8.18	4	0
	3	S	20.70	19.48	5.05	95	8.13	11	2
		D	20.70	19.46	5.05	95	8.15	7	0
	4	S	21.30	19.01	5.24	99	8.18	10-13	0
		D	21.20	19.01	5.31	101	8.18	4-13	4
	5	S	21.50	18.98	5.15	98	8.17	10	6
		D	21.40	18.95	5.20	99	8.17	7	0
	6	S	21.40	18.53	4.76	90	8.14	11	0
		D	21.40	18.56	4.91	93	8.13	10	2
	7	S	21.90	18.08	4.99	95	8.11	17-12	0
		D	21.80	18.35	4.99	95	8.11	10-14	11
	8	S	21.90	18.05	5.24	99	8.12	17-11	4
		D	21.30	18.55	4.61	87	8.12	18-22	4
29- 30.1v	1	S	18.80	19.55	5.42	100	8.13	5-11	12
		D	18.70	19.57	5.25	96	8.18	9-9	12
	2	S	18.40	19.37	5.43	99	8.13	7	11
		D	18.50	19.37	5.43	99	8.11	5	11
	3	S	18.20	19.56	5.40	98	8.14	3	8
		D	18.10	19.55	5.30	96	8.14	8	6
	4	S	18.50	19.43	5.58	102	8.13	7-18	12
		D	18.50	19.42	5.65	103	8.13	4-19	14
	5	S	18.60	19.42	5.72	105	8.12	2	10
		D	18.50	19.45	5.75	105	8.13	7	24
	6	S	18.50	19.26	5.06	92	8.02	7	5
		D	18.60	19.31	5.06	92	8.07	5	12
	7	S	18.40	19.28	5.02	91	8.01	5-22	10
		D	18.40	19.31	5.06	92	8.05	7-12	10
	8	S	18.60	19.12	4.87	89	8.05	10-8	25
		D	18.60	19.17	4.97	91	7.98	9-44	31
10	S	19.60	17.47	4.63	84	7.86	2-23	18	
	D	19.20	17.51	4.57	84	7.58	4-19	18	
12	S	19.80	11.42	4.57	78	7.44	1-22	93	
	D	19.80	11.52	4.60	78	7.51	4-11	72	
16	S	19.70	4.79	4.63	73	7.58	0-18	404	
	D	19.80	5.08	4.60	73	7.79	3-17	417	

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub>
1954 26- 27.v	1	S	17.60	19.71	5.80	105	8.34	11-2	15
		D	17.80	19.67	5.90	107	8.33	8-6	15
	2	S	16.00	19.12	6.46	112	8.32	3	2
		D	16.00	19.46	5.75	100	8.32	4	16
	3	S	16.80	19.68	5.90	105	8.14	10	8
		D	16.80	19.68	5.98	106	7.71	7	6
	4	S	16.00	18.07	4.64	80	8.30	3-26	27
		D	15.40	19.58	6.33	110	8.33	4-5	0
	5	S	15.30	19.47	6.15	106	8.31	7	0
		D	15.20	19.52	6.46	111	8.31	6	0
	6	S	15.10	19.38	5.95	102	8.25	8	0
		D	15.00	19.39	6.05	104	8.29	6	0
	7	S	14.80	19.23	6.01	108	8.24	5-7	0
		D	14.70	19.30	6.01	102	8.29	5-10	0
	8	S	14.60	19.07	5.95	101	7.94	4-11	0
		D	14.60	19.18	5.90	106	8.10	15-3	27
31.v	10	S	15.40	18.42	5.55	95	7.85	3-12	12
		D	15.40	18.44	5.45	93	7.79	13-0	61
	12	S	15.50	14.91	5.77	95	7.79	1-11	109
		D	15.50	14.93	5.90	97	7.74	3-6	98
	16	S	15.70	7.50	5.83	88	7.84	5-9	72
		D	15.60	7.47	5.90	89	7.75	3-11	483
29.vi	1	S	15.70	19.65	5.91	103	8.08	6-8	23
		D	14.70	19.65	6.26	107	8.09	4-10	24
	2	S	14.20	19.63	6.34	107	8.12	4	0
		D	14.10	19.60	6.07	103	8.09	2	0
	3	S	14.10	19.69	6.19	105	8.11	3	14
		D	14.00	19.70	6.19	105	8.13	4	14
	4	S	12.90	19.66	6.61	109	8.12	3-9	0
		D	12.90	19.63	6.65	110	8.12	2-12	5
	5	S	12.90	19.66	6.68	111	8.08	3	1
		D	12.70	19.65	6.61	109	8.17	3	0
	6	S	12.80	19.61	6.57	109	8.16	6	0
		D	12.70	19.60	6.48	107	8.16	5	0
	7	S	12.10	19.49	6.40	104	8.13	4-15	0
		D	12.10	19.50	6.56	107	8.13	2-16	0
	8	S	12.10	19.46	6.34	103	8.15	5-12	0
		D	11.90	19.46	6.50	105	8.15	5-30	0

STATION: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
10.54 vii	10	S	11.40	19.01	6.26	100	8.23	0-17	4	
		D	11.70	19.09	6.26	101	8.19	7-15	46	
	12	S	11.10	17.30	6.77	105	8.15	0-10	33	
		D	11.00	17.50	6.56	102	8.11	4-29	38	
	16	S	11.10	10.00	7.06	101	8.21	0-12	484	
		D	10.90	9.90	4.72	67	8.09	0-11	424	
	16- 17.1x	1	S	16.00	19.64	5.88	103	8.29	7-9	68
			D	15.60	19.64	6.25	109	8.26	5-9	36
	2	S	15.80	19.50	5.82	101	8.27	4-12	36	
		D	15.20	19.50	6.00	103	8.27	3-16	0	
	3	S	15.90	19.55	6.18	108	8.26	3-10	76	
		D	15.70	19.59	6.36	111	8.28	2-12	24	
4	S	15.20	19.35	5.88	101	8.23	5-15	35		
	D	14.80	19.50	6.13	105	8.29	3-15	0		
5	S	15.20	19.55	6.18	107	8.30	2-12	4		
	D	14.80	19.55	6.25	107	8.30	3-16	39		
6	S	15.20	19.55	5.88	101	8.27	6-10	5		
	D	15.20	19.55	6.61	114	8.28	3-15	25		
7	S	15.40	19.50	6.25	108	8.27	7-13	5		
	D	15.80	19.55	6.13	107	8.32	0-16	0		
8	S	15.20	19.48	6.25	108	8.27	6-16	7		
	D	15.20	19.45	5.88	101	8.27	14	22		
10	S	15.40	18.71	5.78	99	8.13	3-16	0		
	D	15.40	18.71	6.01	103	8.13	3-16	0		
12	S	15.40	16.70	6.06	101	8.13	0-15	127		
	D	15.50	16.75	6.00	101	8.07	0-53	103		
16	S	15.20	8.90	4.79	73	7.47	3-21	909		
	D	15.20	8.90	4.93	75	7.42	3-21	909		
11.x	1	S	16.20	19.55	5.88	103	8.23	4-10	0	
		D	22.50	19.55	5.72	112	8.15	8-5	0	
	2	S	18.90	19.45	5.30	97	8.16	5	0	
		D	18.80	19.45	5.42	99	8.15	6	0	
	3	S	17.40	19.55	6.06	108	8.22	5	0	
		D	17.20	19.55	6.13	109	8.20	6	0	
	4	S	20.00	19.40	5.30	99	8.12	7-9	0	
		D	19.90	19.40	5.24	98	8.11	9-7	0	

Location: BOTANY BAY - GEORGES RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 11.x	5	S	20.10	19.55	5.60	105	8.13	4		
		D	20.20	19.55	5.69	107	8.14	4		
	6	S	19.80	19.60	5.30	99	8.11	6		
		D	19.70	19.60	5.42	101	8.10	6		
	7	S	20.20	19.60	5.13	96	8.06	8-10		
		D	19.80	19.60	5.18	97	8.06	5-9		
	8	S	20.40	19.55	5.66	106	8.06	13-1		
		D	19.70	19.50	5.13	96	8.05	7-6		
	14.x	10	S	19.20	19.48	4.98	92	8.16	5-16	10
			D	19.20	19.48	5.37	99	8.09	8-9	3
		12	S	19.90	18.64	5.24	97	7.85	2-13	14
			D	19.60	18.89	5.02	93	7.96	5-14	0
		16	S	19.90	11.95	4.55	78	7.96	2-17	243
			D	19.90	12.05	4.55	78	7.79	2-19	256
	9- 10.xi	1	S	20.90	18.56	4.96	93	8.21	8-30	11
			D	17.70	19.49	4.46	80	8.22	18-0	57
2		S	20.80	18.31	4.79	90	8.15	8	117	
		D	19.40	18.95	4.34	80	8.15	4	48	
3		S	21.20	18.51	5.32	100	8.21	2	40	
		D	21.10	18.51	5.17	97	8.23	2	7	
4		S	20.90	18.26	4.61	86	8.13	4-25	44	
		D	18.60	19.00	4.28	78	8.24	9-36	18	
5		S	20.90	18.71	4.92	92	8.26	4	14	
		D	20.20	18.46	4.87	90	8.26	2	6	
6		S	21.20	18.07	4.37	82	8.25	4	10	
		D	21.20	18.07	4.37	82	8.25	9	12	
7		S	22.00	17.28	4.79	90	8.24	4-30	27	
		D	21.20	18.25	5.06	95	8.26	5-19	36	
8		S	21.80	17.13	4.81	90	8.25	10	40	
		D	21.50	17.77	4.67	88	8.25	4	29	
10		S	22.00	15.51	5.10	94	8.10	4-34	134	
		D	22.00	15.51	4.95	92	8.10	3-36	170	
12		S	22.40	6.12	4.35	73	7.64	16-38	810	
		D	22.30	6.17	3.75	63	7.66	14-52	838	
16		S	22.00	0.62	2.77	44	7.25	104-41	1024	
		D	22.20	0.57	3.91	62	7.26	119-6	942	

BOTANY BAY - GEORGES RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
10	S	24.30	14.55	4.27	81	7.80	10-0	19
	D	25.30	14.40	4.27	82	7.79	4-17	18
12	S	26.00	7.25	3.21	58	7.47	1-35	238
	D	26.00	7.10	2.96	54	7.31	4-41	288
16	S	25.80	1.35	2.48	42	7.27	36-22	508
	D	25.40	1.75	2.36	40	7.15	23-24	558
1	S	21.20	19.40	5.04	96	8.19	3-7	
	D	20.30	19.57	5.17	97	8.19	3-1	
2	S	22.00	19.12	4.76	92	8.15	15	
	D	20.90		4.78		8.16	15-9	
3	S	20.90	19.42	4.93	93	8.17	3	
	D	20.60	19.44	4.96	94	8.18	4	
4	S	22.60	18.88	4.99	97	8.14	15-0	
	D	22.20	19.07	4.88	94	8.13	4-12	
5	S	22.40	19.07	4.82	93	8.14	3	
	D	22.20	19.12	4.88	94	8.13	3	
6	S	22.20	19.12	4.90	94	8.13	2	
	D	21.50	19.36	4.88	93	8.16	3	
7	S	21.70	19.26	4.76	91	8.01	2-2	
	D	21.70	19.22	4.78	92	8.13	3-2	
8	S	22.30	19.12	4.76	92	8.12	3-4	
	D	22.00	19.12	4.69	90	8.13	6-0	

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub>
1954									
11.1	12 n	54	19.40	21.00	19.84	8.00	90	8-6-16	2
	1pm	61	18.90	20.90					
	2	54	18.90	20.60	19.40	8.00	90	10-7-15	7
	3	45	19.40	20.60					
	4	37	19.40	20.50	19.22	8.00	80	20-0-42	12
	5	29	20.00	20.50					
	6	21	20.00	20.40	19.32	7.98	76	40-0-228	
	7	14	19.40	20.20					
	8	15	18.60	20.20	19.06	7.97	89	34-15-56	16
	9	21	18.30	19.90					
	10	29	18.30	20.30	19.41	8.00	93	25-0-19	13
	11	42	18.60	20.50					
12.1	12mm	52	18.90	20.50	19.38	7.98	93	21-4-1	4
	1am	59	18.90	20.40					
	2	60	19.40	20.20	19.00	7.99	90	19-19-40	16
	3	55	19.40	19.80					
	4	50	19.40	19.70	18.62	7.99	88	25-0-45	13
	5	40	19.40	19.70					
	6	30	19.40	19.80	19.27	7.99	88	31-0-81	13
	7	23	19.40	19.70					
	8	18	19.40	19.50	18.39	8.00	86	30-0-47	24
	9	22	19.40	19.70					
	10	28	20.00	20.00	18.63	7.99	88	25-0-35	17
	11 w	36	20.00	20.30					
	12 n	45	20.60	20.70	19.34	7.98	87	14-2-25	20

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
12.iii	12 n	51	22.80	22.50	16.52	8.23	96	4-9-8	3
	1pm	57	22.80	22.70					
	2	57	22.80	23.20	16.70	8.23	101	4-15-5	0
	3	54	22.80	23.60					
	4	48	23.30	24.00	16.70	8.25	115	3-16-10	4
	5	42	24.40	24.50					
	6	37	23.90	24.50	16.79	8.23	110	7-6-16	4
	7	33	23.30	24.50					
	8	35	22.80	23.60	16.66	8.21	108	5-14-0	1
	9	38	22.20	23.30					
	10	48	21.10	22.80	16.32	8.22	101	3-22-2	0
	11	56	20.60	22.90					
	12mm	62	20.00	22.80	16.58	8.20	94	3-19-0	0
12.iii	1am	71	20.60	22.60					
	2	78	20.00	22.60	17.02	8.20	89	3-24-0	0
	3	73	20.60	22.50					
	4	65	21.10	22.50	17.20	8.23	82	6-10-11	13
	5	56	20.60	22.40					
	6	47	20.00	22.20	16.98	8.11	84	3-20-0	13
	7	36	21.10	21.90					
	8	30	22.20	22.00	16.97	8.12	85	7-17-5	13
	9	27	22.80	22.00					
	10	28	22.20	22.30	16.87	8.14	86	8-12-10	7
	11	34	22.20	22.50					
	12 n	39	22.20	22.70	16.95	7.95	88	13-7-5	3
31.iii	1pm	18	22.80	23.30	18.81	8.08	110	5-4-12	5
	2	27	22.80	23.30					
	3	36	22.80	22.50	18.78	8.07	105	3-13-4	22
	4	46	22.20	22.60					
	5	55	21.70	22.70	18.73	8.07	109	3-9-1	7
	6	59	21.70	22.50					
	7	59	21.10	22.50	18.73	8.06	107	3-9-1	12
	8	52	20.60	22.70					
	9	43	19.40	23.20	18.87	8.06	100	6-14-4	21

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
31.iii	10pm	33	17.20	22.60					
	11	24	16.10	22.20	18.85	8.07	110	7-22-0	15
	12mm	24	16.10	22.00					
1.iv	1am	24	16.10	21.90	18.84	8.08	96	6-26-3	9
	2	33	16.10	21.70					
	3	42	16.10	21.40	18.82	8.11	98	6-25-7	5
	4	54	15.00	21.40					
	5	67	14.40	21.30	18.73	8.08	93	8-31-5	3
	6	72	15.00	21.50					
	7	70	16.10	21.30	18.88	8.09	94	8-24-0	15
	8	62	18.90	20.90					
	9	52	21.10	21.30	18.83	8.08	87	8-23-6	7
	10	39	21.70	21.50					
	11	27	23.30	21.80	18.81	8.09	100	7-24-8	8
	12 n	16	23.90	22.70					
	1pm	12	23.30	23.00	18.85	8.10	117	12-18-5	9
22.iv	12 n	48	21.10	21.10	19.55	8.02	119	13-5-3	16
	1pm	42	21.70	21.30					
	2	34	20.60	21.60	19.67	8.01	119		
	3	29	21.10	21.70					
	4	24	20.60	21.70	19.59	8.04	130	5-8-16	10
	5	26	21.10	21.70					
	6	33	20.60	21.50	19.53	8.04	130		
	7	39	19.40	21.20					
	8	51	18.30	20.90	19.48	8.02	110	4-16-1	61
	9	59	17.20	21.00					
	10	63	16.10	20.60	19.34	8.00	102		
	11	67	15.60	20.40					
	12mm	61	15.60	20.50	19.45	8.03	105	5-8-10	11
23.iv	1am	56	15.00	20.50					
	2	46	13.90	20.00	19.52	8.02	101		
	3	42	13.30	20.00					
	4	26	13.30	20.00	19.56	8.02		12-8-5	7
	5	22	13.90	19.90					
	6	22	13.30	19.70	19.45	8.00	100		
	7	25	13.90	19.70					

Station: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
23.iv	8am	32	17.80	19.80	19.43	7.97	108	9-10-4	7
	9	38	21.70	19.80					
	10	42	21.10	20.20	19.39	8.01	99		
	11	48	21.10	20.10					
	12 n	49	20.60	20.70	19.30	7.98	103	5-12-0	7
27.v	12 n	21	18.90	16.50	19.42	8.02	110	2-12-0	6
	1pm	30	17.20	16.40					
	2	42	20.00	16.50	19.42	8.07	105		
	3	50	18.90	16.40					
	4	54	17.80	16.40	19.47	8.10	109	6-10-0	0
	5	52	17.20	17.00					
	6	46	15.60	17.30	19.43	8.08	119		
	7	37	15.60	16.80					
	8	27	15.00	16.50	19.43	8.07	113	2-9-1	0
	9	21	14.40	16.50					
	10	17	13.90	16.30	19.46	8.11	105		
	11	18	13.30	16.10					
	12mn	24	13.30	15.90	19.46	8.07	101	4-11-1	0
28.v	1am	32	13.30	15.80					
	2	39	12.80	15.90	19.49	8.10	104		
	3	49	12.20	16.10					
	4	54	12.20	16.00	19.49	8.09	106	3-19-0	0
	5	53	12.20	15.80					
	6	48	12.20	15.70	19.48	8.06	96		
	7	37	12.20	15.40					
	8	30	12.20	15.60	19.49	8.08	94	6-8-0	0
	9	20	14.40	15.80					
	10	9	16.10	15.90	19.49	8.10	105		
	11	9	17.80	15.90					
	12 n	16	17.80	16.20	19.49	8.05	102	4-8-0	0
9.vi	12 n	40	15.60	12.70	19.55	8.08	95	5-9	4
	1pm	50	15.60	13.00					
	2	56	15.60	13.00	19.53	8.01	101	4-10	2
	3	58	15.00	13.10					
	4	58	15.60	13.20	19.51	8.01	105	3-8	0
	5	55	14.40	13.20					

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
9.vi	6pm	50	13.30	13.30	19.55	8.11	119	4-8	0
	7	43	11.10	13.00					
	8	38	11.10	13.00	19.55	8.07	114	5-9	0
	9	33	11.10	13.10					
	10	33	11.10	13.00	19.52	8.08	108	6-8	0
	11	36	11.10	12.80					
10.vi	12mm	41	10.60	12.80	19.52	8.06	107	8-5	1
	1am	48	10.00	12.90					
	2	54	9.44	12.90	19.52	8.05	105	6-4	1
	3	56	8.89	12.80					
	4	55	8.89	12.70	19.51	8.05	102	6-8	1
	5	49	8.33	12.60					
	6	43	7.78	12.40	19.51	8.11	101	6-5	0
	7	37	8.33	12.30					
	8	30	8.33	12.30	19.50	8.10	99	5-6	0
	9	23	11.10	12.30					
	10	24	12.20	12.40	19.52	8.13	113	4-10	0
	11	27	13.90	12.60					
	12 n	34	15.60	13.00	19.52	8.11	110	6-5	0
17.vi	12 n	33	15.00	11.20	19.60	8.36	110	4-6-0	0
	1pm	26	15.00	11.40					
	2	19	15.00	11.60	19.61	8.37	120		
	3	21	14.40	11.70					
	4	27	13.90	11.70	19.59	8.33	112	4-10-4	0
	5	36	12.20	11.50					
	6	45	10.00	11.20	19.59	8.30	109		
	7	60	7.78	11.20					
	8	67	7.22	11.00	19.56	8.29	92	5-9-2	0
	9	72	8.33	11.00					
	10	69	8.33	11.00	19.57	8.30	106		
	11	60	8.33	10.08					
18.vi	12mm	49	7.78	10.07	19.59	8.27	108	4-15-0	0
	1am	34	7.78	10.70					
	2	23	7.78	10.50	19.59	8.25	106		
	3	15	7.22	10.40					
	4	12	7.22	10.20	19.62	8.23	103	4-4-8	0
	5	16	7.22	10.30					

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954						pH				
8.vi	6am	25	6.11	10.30	19.65	8.25	106			
	7	33	5.56							
	8	41	6.11	10.50	19.66	8.29	105	2-4-4	0	
	9	47	7.78	10.70						
	10	48	11.10	10.80	19.58	8.35	107			
	11	44	12.80	10.80						
	12 n	38	13.90	11.20	19.58	8.33	109	6-6-2	0	
	30.vi	12 n	24	17.80	13.40	19.69	8.05	106	3-1-2	17
		1pm	13	18.90	13.00					
		2	11	20.00	13.80	19.74	8.16	119		
		3	15	18.90	13.50					
		4	24	18.90	13.50	19.62	8.24	113	5-0-0	46
5		36	17.80	13.50						
6		52	15.60	13.60	19.69	8.24	112			
7		63	14.40	13.60						
8		75	13.90	13.50	19.69	8.24	116	3-11-4	53	
9		74	13.90	13.90						
10		66	12.80	13.80	19.74	8.24	116			
11		52	11.70	13.50						
1.vii	12mn	38	10.00	12.80	19.69	8.22	107	2-14-8	11	
	1am	23	10.60	12.70						
	2	12	10.00	12.80	19.74	8.23	104			
	3	6	10.00	12.70						
	4	5	7.78	12.50	19.74	8.28	94	3-7-4	8	
	5	12	5.56	12.50						
	6	24	5.00	12.60	19.74	8.23	105			
	7	34	4.44	12.60						
	8	43	8.33	13.00	19.74	8.22	116	3-9-0	0	
	9	51	12.20	12.70						
	10	46	13.90	12.60	19.69	8.26	108			
	11	38	14.40	12.70						
12 n	28	16.70	13.00	19.64	8.25	99	2-9-3	5		

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
15.vii	12 n	22	17.20	14.70	19.42	8.07	94	11-4-6	0
	1pm	17	18.30	15.00					
	2	17	18.90	15.30		8.09			
	3	22	18.90	15.40					
	4	31	18.30	14.90	19.42	8.09	98	6-6-0	0
	5	41	16.10	14.60					
	6	51	16.10	14.50		8.10			
	7	63	15.00	14.00					
	8	69	13.90	14.70	19.47	8.10	93	9-11-0	2
	9	69	12.80	15.00					
	10	63	13.30	14.80		8.09			
16.vii	11	52	12.20	14.80					
	12mn	42	11.10	14.30	19.43	8.10	95	7-8-3	12
	1am	27	10.60	14.50					
	2	13	10.60	14.20		8.10			
	3	12	11.10	14.10					
	4	15	11.70	14.00	19.42	8.12	88	7-8-0	9
	5	25	11.70	14.10					
	6	35	11.10	14.30		8.12			
	7	45	10.60	14.20					
	8	51	11.10	14.50	19.48	8.14	91	7-10-0	9
	9	51	11.70	14.40					
	10	46	13.30	14.30		8.15			
27.vii	11	38	16.70	14.50					
	12 n	29	17.80	14.50	19.47	8.16	92	6-9-3	1
	12 n	21	15.00	12.30	19.03	8.41	98	4-7-8	0
	1pm	24	18.90	13.80					
	2	34	15.00	13.00	19.05	8.40	100	5-3-3	
	3	45	15.00	12.90					
	4	56	14.40	12.80	19.08	8.37	100	4-5-5	0
	5	69	13.90	12.70					
	6	75	11.10	12.80	19.08	8.36	100	6-0-3	
	7	75	10.60	12.60					
	8	63	8.89	12.70	19.04	8.38	100	6-1-9	0
9	54	7.78	12.60						
10	41	7.78	12.60	19.13	8.37	100	4-3-2		
11	30	7.78	12.60						

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
27.vii	12mn	18	7.78	12.20	19.11	8.39	97	4-3-4	9
28.vii	1am	17	7.78	12.30					
	2	13	7.22	12.30	19.14	8.36	96	6-3	
	3	21	6.67	12.40					
	4	30	6.67	12.40	19.16	8.38	96	4-7	0
	5	39	7.22	12.20					
	6	48	7.22	12.00	19.06	8.39	96	4-3-4	
	7	51	6.67	12.00					
	8	49	8.33	12.00	19.06	8.36	95	6-3-1	0
	9	43	10.00	12.00					
	10	33	12.20	12.20	19.08	8.37	96	1-4-3	
	11	25	15.60	12.30					
	12 n	18	16.10	12.60	19.08	8.38	100	8-0-4	0
11.viii	12 n	19	13.90	12.70	19.01	7.99	107	5-6-5	0
	1pm	26	14.40	12.60					
	2	32	15.60	13.00	19.07	8.11	106	5-11-0	
	3	41	15.60	13.00					
	4	51	15.00	13.10	19.07	8.08	106	4-10-0	0
	5	61	13.90	12.90					
	6	65	12.20	12.80	19.01	8.10	110	5-6-4	
	7	64	10.60	12.70					
	8	55	9.44	12.80	19.14	8.13	104	5-8-4	0
	9	47	10.60	12.70					
	10	35	10.60	12.50	19.07	8.09	69	4-7-2	
	11	24	10.00	12.50					
	12mn	19	10.00	12.50	19.07	8.08	99	4-4-4	0
12.viii	1am	14	10.00	12.50					
	2	17	9.44	12.30	19.07	8.05	109	4-7-4	
	3	25	9.44	12.30					
	4	33	9.44	12.30	19.09	8.05	98	4-6-3	0
	5	41	9.44	12.30					
	6	47	9.44	12.30	19.07	8.00	97	4-6-5	
	7	48	8.89	12.30					
	8	43	12.20	12.40	19.12	7.96	97	5-6-4	0
	9	39	12.80	12.00					
	10	30	13.90	11.90	19.09	7.89	99	6-1-9	
	11	22	13.90	12.00					
	12 n	18	13.90	12.30	19.09	7.65	101	8-2-6	0

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
24.viii	12 n	26	27.20	16.60	19.24	7.95	104	17-7-0	19
	1pm	36	27.80	16.60					
	2	45	28.90	16.60	19.33	8.18	100		18
	3	54	28.90	16.60					
	4	62	27.20	16.30	19.25	8.18	98	6-13-0	18
	5	69	25.60	16.30					
	6	69	24.40	16.20	19.33	8.19	89		20
	7	62	23.30	16.00					
	8	51	20.60	18.00	19.26	8.13	100	6-7-2	16
	9	37	21.10	17.20					
	10	27	19.40	16.50	19.27	8.15	96		14
25.viii	11	18	18.90	16.40					
	12mm	15	17.80	16.30	19.37	8.23	93		14
	1am	17	17.80	16.30					
	2	21	18.30	16.00	19.36	8.21	95	6-10-0	20
	3	31	18.30	16.00					
	4	41	18.30	16.00	19.36	8.19	95		33
	5	47	17.80	16.00					
	6	51	17.80	16.00	19.25	8.13	93	6-7-4	16
	7	49	16.10	15.60					
	8	41	14.40	15.70	19.26	8.15	93	5-9-4	14
	9	33	14.40	15.70					
	10	24	14.40	15.70	19.28	8.11	91		18
9.ix	11	19	15.00	15.70					
	12 n	17	15.60	15.70	19.27	8.09	92	5-8	15
	12 n	18	15.00	14.90	19.48	8.20	99	8-6-8	0
	1pm	26	16.10	15.00					
	2	32	15.00	15.10		8.18			
	3	42	15.60	15.00					
	4	51	15.60	15.20	19.42	8.18	100	3-9-5	0
	5	58	15.00	15.40					
	6	59	14.20	15.30		8.19			
	7	55	14.20	15.10					
	8	47	13.30	15.20	19.48	8.17	104	3-13-4	0
9	36	10.60	15.60						
10	26	9.77	15.20		8.18				
11	15	9.77	15.00						
12mm	3	9.77	14.60	19.45	8.16	98	3-9-2	0	

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
30.ix	1am	6	9.44	14.50					
	2	15	9.44	14.40		8.16			
	3	24	9.44	14.40					
	4	33	9.44	14.40	19.46	8.16	97	1-11-6	0
	5	40	9.44	14.40					
	6	45	11.10	14.30		8.16			
	7	45	11.70	14.30					
	8	39	14.40	14.30	19.45	8.15	100	3-13-4	0
	9	32	14.40	14.20					
	10	21	15.60	14.00		8.12			
	11	15	14.40	14.00					
	12 n	12	16.10	14.00	19.56	8.10	101	3-20-0	0
30.ix	12 n	48	17.80	18.50	19.60	8.10	105	5-16-61	12
	1pm	36	17.80	18.20					
	2	24	18.30	18.10		8.09			
	3	15	18.30	18.70					
	4	9	18.30	19.50	19.61	8.02	104	7-11-0	10
	5	10	17.80	19.50					
	6	16	17.80	19.30		8.09			
	7	26	17.20	18.80					
	8	32	16.10	18.50	19.59	8.15	110	5-14-3	21
	9	40	15.00	18.50					
	10	46	13.90	18.30		8.15			
	11	47	14.40	18.20					
	12mm	42	15.00	18.30	19.58	8.14	106	12-5-0	25
1.x	1am	34	13.30	18.20					
	2	22	13.30	18.10		8.07			
	3	15	13.30	18.10					
	4	12	14.40	18.00	19.61	8.08	92	17-0-5	30
	5	15	14.40	18.00					
	6	21	13.90	18.10		8.12			
	7	29	13.90	18.10					
	8	39	15.00	18.00	19.57	8.12	103	12-9-0	27
	9	49	14.40	17.80					
	10	55	18.30	17.90	19.57	8.10	102		
	11	57	19.40	17.90					
	12 n	51	18.90	18.90	19.50	8.11	106	8-18-0	15

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
14.x	12 n	57	19.40	19.10	19.72	8.18	103	4-13	0
	1pm	39	19.40	19.00					
	2	24	20.00	19.50		8.17			
	3	11	20.00	20.20					
	4	5	20.00	20.50	19.82	8.16	96	6-11-5	0
	5	7	20.00	20.50					
	6	9	19.40	20.20		8.17			
	7	36	19.40	19.00					
	8	48	18.90	19.00	19.67	8.17	100	6-8-0	0
	9	56	16.70	19.00					
	10	60	16.10	19.00		8.17			
	11	66	15.00	19.30					
	12mm	57	15.30	19.30	19.67	8.11	90	8-42-53	0
15.x	1am	39	15.30	19.00					
	2	22	15.60	19.10		8.11			
	3	12	15.60	19.20					
	4	10	15.60	19.10	19.67	8.08	87	9-5-56	0
	5	13	15.60	19.00					
	6	24	15.60	18.60		8.14			
	7	38	15.00	18.60					
	8	54	14.40	18.40	19.58	8.19	90	8-6-0	0
	9	66	15.00	18.50					
	10	75	14.40	18.30		8.23			
	11	74	15.60	18.20					
	12 n	67	15.00	17.80	19.38	8.20	91	8-9-0	0
3.xi	8am	31	17.20	19.20	17.97	8.10	89	5-13-9	64
	9	37	18.30	19.50					
	10	43	19.40	19.80		8.15			
	11	51	19.40	20.00					
	12 n	57	20.00	20.10	18.07	8.16	101	1-18-12	18
	1pm	60	20.00	20.20					
	2	58	20.60	20.10		8.13			
	3	54	20.00	20.00					
	4	46	20.00	20.00	18.22	8.16	105	4-14-16	8

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
3.xi	5pm	39	20.00	20.00					
	6	30	19.40	20.00		8.16			
	7	26	19.40	19.90					
	8	22	19.40	19.80	18.26	8.16	97	0-16-14	1
	9	23	19.40	19.90					
	10	28	18.90	19.70		8.16			
	11	35	18.90	19.80					
	12mn	41	18.30	19.80	17.97	8.14	92	3-12-8	17
4.xi	1am	46	18.30	19.80					
	2	48	17.80	19.70		8.13			
	3	48	17.80	19.60					
	4	45	17.20	19.60	17.97	8.05	87	2-16-9	3
	5	38	17.20	19.00					
	6	33	17.20	19.60		8.09			
	7	30	17.20	19.30					
	8	28	17.20	19.30	17.97	8.10	88	1-19-0	16
16.xi	12 n	63	20.00	22.70	17.77	8.19	117	1-27-11	7
	1pm	66	20.00	23.00					
	2	62	19.40	23.50		8.11			
	3	53	18.90	23.60					
	4	44	18.90	23.60	18.02	8.19	117	10-5-12	6
	5	33	18.30	23.80					
	6	28	18.90	23.80		8.08			
	7	18	17.80	23.50					
	8	12	17.80	23.10	17.97	8.14	102	4-9-20	6
	9	6	18.30	22.90					
	10	12	18.30	23.00		8.10			
	11	21	18.30	22.80					
	12mn	41	18.30	22.40	17.92	8.21	110	3-16-3	6
17.xi	1am	51	18.30	22.70					
	2	52	18.30	22.50		8.16			
	3	50	18.30	22.60					
	4	43	16.10	21.50	17.87	8.11	88	2-26-0	6
	5	39	17.20	21.40					

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
17.xi	6am	28	18.30	21.30		8.11			
	7	27	19.40	21.60					
	8	27	20.60	22.00	18.02	8.15	96	4-22-12	4
	9	33	20.00	22.30					
	10	40	20.60	22.70		8.19			
	11	49	21.10	22.70					
	12 n	57	20.60	23.00	17.97	8.21	111	4-15-13	9
1.xii	10am	53	21.70	24.60	18.77	8.03	92	7-21-0	25
	11	60	21.70	24.60					
	12 n	62	22.20	25.00		8.05			
	1pm	56	22.80	25.50					
	2	49	22.80	26.00	18.97	7.97	103	6-11-0	20
	3	41	23.30	26.00					
	4	30	22.80	26.30		7.96			
	5	21	22.20	26.20					
	6	15	22.20	26.20	18.92	7.93	102	5-21-2	29
	7	12	22.20	26.00					
	8	18	21.70	25.50		7.94			
	9	25	21.70	25.30					
	10	33	21.70	25.00	18.87	7.90	98	8-7-8	102
	11	40	21.70	25.00					
	12mn	46	22.20	25.00		7.98			
2.xii	1am	48	22.20	25.00					
	2	44	22.20	24.50	18.77	7.95	82	8-10-0	25
	3	39	22.20	24.00					
	4	33	21.70	24.00		7.93			
	5	30	21.10	23.80					
	6	23	21.70	23.60	18.77	7.87	79	8-9-2	33
	7	23	22.20	23.50					
	8	27	22.20	23.60		7.95			
	9	36	22.80	24.00					
	10	45	23.30	24.50	18.82	8.05	97	10-9-3	43

Location: GEORGES RIVER - SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954						pH			
15.xii	10am	50	24.40	23.50	18.83	7.99	91	3-18-0	
	11	62	24.40	23.60					
	12 n	68	26.70	23.80		8.06			
	1pm	66	25.60	24.50					
	2	62	25.00	25.50	18.88	8.07	120	0-17-0	
	3	51	24.40	25.80					
	4	40	23.90	25.70		8.06			
	5	29	23.90	25.50					
	6	19	23.30	25.00	19.92	8.07	101	13-22-13	
	7	18	22.80	25.00					
	8	18	22.80	25.00		8.09			
	9	18	22.80	24.50					
	10	30	22.20	24.50	18.97	8.08	91	18-51-29	
	11	42	20.60	25.30					
	12mn	48	20.00	24.30		8.09			
16.xii	1am	52	20.00	24.00					
	2	56	19.40	23.80	19.02	8.04	89	6-25-8	
	3	48	18.90	23.60					
	4	40	17.80	23.00		8.03			
	5	33	17.80	22.70					
	6	28	20.00	23.00	18.97	8.05	83	4-27-34	
	7	26	21.70	23.20					
	8	27	21.10	23.80		8.07			
	9	36	21.70	24.00					
	10	44	21.70	24.20	18.97	8.12	98	11-40-14	

Location: GEORGES RIVER - SHELL POINT

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	%
1954								
7.1	2	2.25	46	802	28.6		3.1	
	3	0	201	1581	45.1		6.8	62
2.iv	2	8.5	261	2366	90.2	44	5.0	63
	3	10.0	151	2213	70.2	59	6.6	16
11.v	2	2.5	135	374	13.8	48	6.1	15
	3	8.5	141	310	15.5	41	5.1	47
27.v	2		253	666	3.3	54	6.1	
	3		234	651	3.8	49	5.1	
10.vi	2		83	735	16.6	41	5.0	
	3		101	599	10.6	34	4.2	
23.vi	2		150	705	21.8	62	6.4	
	3		65	408	8.7	27	3.0	
6.vii	2		119	459	12.2	33	3.6	
23.vii	2		101	440	9.2	28	3.4	
	3		249	608	12.8	49	6.2	
5.viii	2		148	493	18.2	48	2.8	
	3		200	736	12.4	44	4.5	
24.viii	2		110	573	12.5	31	2.3	
	3		180	592	16.6	56	3.8	
6.ix	2		106	619	21.8	41	4.0	
	3		148	575	15.7	49	4.3	
16.ix	2 <sup>v</sup>		100	601	17.0	40	2.4	
	3		170	560	18.9	41	5.6	
1.x	2		101	550	17.3	32	2.6	
	3		136	488	20.7	60	5.5	

Station: GEORGES RIVER - SHELL POINT

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1954 11	2		8	408	12.6	27	2.2	17
	3		267	267	16.0	50	6.0	14
10.11	2		209	339	17.7	39	3.0	15
	3		242	296	19.4	50	5.3	15
13.11	2		211	592	17.5	38	2.0	15
	3		173	360	21.0	42	5.3	68

Location: PORT HACKING

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 15.i	1	S	22.90	19.62	5.65	111	7.99	3-8-24		
		D	21.10	19.66	5.53	105	8.03	3-11-0		
	4	S	22.20	19.59	5.46	106	7.99	10-4-6		
		10m		19.68	5.26		7.85	5-11-4		
		D	20.20	19.70	5.23	98	8.02	11-14-		
								0		
	4a	S	22.40	19.56	5.46	106	7.99	2-12-0		
		10m	20.30	19.65	5.26	99	8.01	2-15-1		
		D	19.80	19.71	3.92	73	7.98	16-9-1		
	4b	S	22.70	19.49	5.23	102	7.91	2-12-1		
		5m	21.60	19.49	5.46	105	8.00	2-11-2		
		D	20.60	19.67	5.01	95	7.98	7-9-1		
	6	S	22.60	19.57	5.52	108	7.93	4-10-8		
		D	20.00	19.72	4.05	76	8.01	13-23		
	8	S	24.70	13.66	4.53	86	7.81	5-9-13		
		D	23.90	17.27	3.92	76	7.75	5-17-9		
	4- 5.ii	1	S	22.20	19.66	5.21	101	8.07	1-20-0	
			D	22.00	19.61	5.56	107	8.14	1-16-0	
4		S	23.00	19.70	4.96	98	8.03	9-0-0		
		10m	22.00	19.69	4.81	93	8.02	6-3-2		
		D	20.70	19.70	2.34	44	7.88	34-7-5		
4a		S	23.40	19.69	4.81	93	8.02	5-3-7		
		10m	22.00	19.71	4.81	93	8.02	9-1-3		
		D	20.50	19.70	2.74	52	7.94	34-4-0		
4b		S	23.30	19.71	4.76	94	8.03	6-4-0		
		10m	22.00	19.71	4.64	90	8.04	9-9-0		
		D	20.40	19.69	4.87	92	8.06	15-9-5		
6		S	23.70	19.74	4.69	93	8.02	4-3-2		
		D	21.20	19.66	3.34	64	7.96	25-0-5		
8		S	25.60	18.39	3.72	75	7.79	1-10-3		
		D	24.80	18.57	3.72	75	7.96	1-2-8		
2.iv		1	S	20.50	19.65	5.29	100	8.17	9-14-1	
			D	20.50	19.65	5.49	104	8.15	4-13	
	4	S	22.00	19.43	5.13	99	8.08	11-17-		
								2		
		10m	21.60	19.45	4.97	95	8.07	4-18-2		
		D	21.30	19.52	4.39	84	8.11	34-18-		
							12			

Location: PORT HACKING

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 22.iv	4a	S	22.20	19.41	4.97	96	8.09	9-20-7	6	
		10m	21.70	19.43	4.84	93	8.09	8-21-0	9	
		D	21.40	19.40	3.23	62	8.01	50-14-29	114	
	4b	S	22.50	19.38	4.72	92	8.03	7-19-2	18	
		10m	22.00	19.38	4.67	90	8.10	7-25-3	9	
		D	21.60	19.45	2.80	54	8.00	37-15-13	62	
	6	S	22.60	19.29	5.09	99	8.09	9-21-0	4	
		D	21.70	19.41	4.97	95	8.10	5-17-6	15	
	8	S	22.70	19.33	4.75	93	8.05	0-14-1	12	
		D	22.70	19.30	4.97	97	8.05	3-18-9	19	
	22.vii	1	S	14.10	19.41	5.87	99	8.22	8-6-4	1
			D	14.00	19.41	5.96	101	8.25	6-8-2	1
4		S	14.00	19.37	5.76	97	8.28	5-4-4	0	
		10m	13.40	19.37	5.79	97	8.30	8-3-2	0	
4a		D	13.40	19.37	5.33	89	8.28	5-5-3	0	
		S	14.00	18.94	5.60	94	8.28	6-4-2	3	
4b		10m	14.10	19.40	5.73	97	8.30	5-7	5	
		D	14.10	19.69	5.68	96	8.26	9-6-58	4	
6		S	14.00	18.95	5.52	92	8.07	5-7-10	5	
		D	14.00	19.37	5.68	96	8.06	5-5-5	23	
8		S	14.00	19.37	6.85	116	8.13	9-6-7	0	
		D	13.50	19.70	5.26	88	8.16	5-7-3	0	
19.x	1	S	14.10	19.27	5.33	99	8.26	8-7-4	0	
		D	14.20	19.53	5.52	93	8.27	6-4-3	3	
	4	S	14.00	19.37	5.52	92	8.07	12-0-0	1	
		D	14.00	19.68	5.40	91	8.10	9-6-7	0	
	4a	S	14.00	18.94	5.60	94	8.28	6-4-2	3	
		10m	14.10	19.40	5.73	97	8.30	5-7	5	
	4b	S	14.00	18.95	5.52	92	8.07	5-7-10	5	
		10m	14.00	19.37	5.68	96	8.06	5-5-5	23	
	6	S	14.00	19.37	6.85	116	8.13	5-7-3	0	
		D	13.50	19.70	5.26	88	8.16	8-7-4	0	
	8	S	14.10	19.27	5.33	99	8.26	6-4-3	3	
		D	14.20	19.53	5.52	93	8.27	12-0-0	1	
19.x	1	S	16.80	18.98	5.40	95	8.02	8-7-2	35	
		D	14.90	19.44	5.32	91	8.02	17-4-2	80	
	4	S	17.90	18.13	6.02	107	8.08	3-13-0	20	
		10m	17.80	19.43	5.68	102	8.07	6-10-0	9	
	4a	D	17.20	19.60	5.06	90	8.04	6-13-0	7	
		S	18.30	13.92	5.56	95	8.06	0-12-1	9	
	4b	10m	17.80	19.21	5.54	99	8.07	0-15-0	9	
		D	17.40	19.44	4.96	89	8.05	28-0-0	10	

Location: PORT HACKING

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P		
1954										
19.x	4b	S	18.50	18.97	6.18	112	8.04	2-8-8		
		10m	18.20	19.30	5.39	98	8.01	3-10-0		
	6	D	17.90	19.46	5.45	98	8.01	4-11-1		
		S	18.40	16.70	5.75	101	8.05	8-5-6		
	8	D	17.80	19.21	5.46	98	8.10	0-13-0		
		S	19.10	15.96	4.32	76	7.88	0-12-5		
			D	18.80	18.73	2.98	54	7.70	14-3-8	
11.xi	1	S	18.90	19.17	5.68	104	8.18	2-11-2		
		D	17.40	19.44	4.96	89	8.15	11-7-1		
	4	S	20.90	18.41	5.56	104	8.11	3-7-8		
		10m	18.40	19.10	5.15	93	8.07	5-7-1		
			D	17.60	19.57	2.04	37	7.93	35-0-	14
									10	
	4a	S	21.00	18.56	5.65	106	8.09	3-12-9	15	
		10m	18.40	19.15	5.06	92	8.06	7-6-6	13	
			D	17.60	19.47	1.80	32	7.90	45-0-	10
									14	
	4b	S	22.70	17.36	5.60	107	8.05	1-8-0	3	
		10m	18.30	19.19	4.40	80	7.97	6-12-0	7	
6	D	17.90	19.39	2.78	50	7.92	23-6-3	12		
	S	21.00	18.12	5.55	104	7.81	2-8-0	31		
8	D	17.80	19.34	3.65	66	8.05	18-7-3	13		
	S	21.80	9.24	4.98	86	8.13	1-10-2	18		
		D	21.20	15.71	2.70	49	7.85	4-5-7	16	
1.xii	1	S	22.20	19.75	5.30	103	8.26	5-8	58	
		D	19.60	20.05	4.95	93	8.24	7-8	19	
	4	S	23.10	19.70	5.26	104	8.16	5-11	22	
		10m	22.10	19.70	5.11	99	8.20	4-8	9	
			D	20.60	19.70	5.02	95	8.18	6-8	12
	4a	S	22.40	19.70	5.11	100	8.17	5-11	12	
		10m	20.80	19.70	5.26	100	8.21	6-8	11	
			D	18.00	19.90	0.58	11	7.82	65-8	42
	4b	S	22.40	19.60	5.02	98	8.13	6-11	59	
		10m	21.50	19.70	5.33	102	8.16	6-7	19	
		D	19.80	19.70	4.27	80	8.15	12-16	8	

PORT HACKING

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
6	S	22.60	19.60	5.09	99	8.23	4-13	18
	D	18.60	19.70	1.99	37	8.04	32-2	166
8	S	26.00	14.20	4.33	84	8.01	2-10	24
	D	23.10	18.10	1.70	33	7.68	4-14	14

Location: PORT HACKING

Date	Station	Inc. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% of 511
1954								
15.i	4	1.75	7	503	17.1		3.1	88
	8	0.5	196	890	43.8		3.7	20
5.ii	4	5.0	18	380	24.4	49	5.2	34
	8	2.0	149	869	36.6	77	8.4	17
2.iv	4	31.25	30	1133	114.2	68	7.2	89
	8	3.0	135	1613	42.2	105	8.8	30
22.vii	4	12.0	11	635	11.5	36	4.6	32
	8	18.5	135	635	11.5	97	6.5	73
11.xi	4	14.75	19	605	15.2	41	2.7	48
	8	2.5	99	635	7.6	34	2.5	31
1.xii	4		0	1051	15.9	26	2.8	
	8		120	880	25.0	74	5.0	

Station: D'ENTRECASTEAUX CHANNEL

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 8.1	1	0	16.40	18.83	5.49	96		3-11	12
		20	16.30	18.91	5.52	96		3-12	8
	6	0	17.40	18.87	5.91	105		4-7	8
		14	16.80	18.74	5.31	93		1-8	8
25.11	1	0	16.90	18.67	5.59	98		6-4	29
		40	15.60	19.09	5.20	90		8-5	70
	6	0	16.15	18.81	5.52	96		13-0	14
		12	16.55	18.85	5.45	95		8-12	53
19.111	1	0	15.60	19.19	5.58	96		8-6	0
		22	15.40	19.49	5.49	95		11-2	9
	6	0	14.40	18.90	5.66	96		8-1	1
		14	14.40	18.89	5.71	96		7-5	0
24.1v	1	0	14.10	18.66	5.90	98	8.14	8-6	0
		30	12.80	18.85	6.05	99	8.14	11-2	0
	6	0	13.40	18.60	6.30	103	8.14	8-6	0
		13	12.40	18.85	6.30	102	8.14	7-7	8
29.1v	1	0	13.50	18.31	5.77	96		4-12	23
		30	13.70	19.10	5.32	89		10-7	28
28.1v	6	0	12.70	18.33	5.39	88		4-11	120
		10	12.95	18.82	4.50	74		8-6	43
28.v	1	0	10.40	17.51	6.07	93		9-3	11
		25	12.10	19.01	5.50	89		10-7	37
	6	0	10.70	17.58	6.03	93		7-4	20
		12	12.00	18.88	5.77	93		6-8	39
29.v1	1	0	10.50	17.86	5.97	92		12-10	2
		20	11.50	18.93	5.54	88		20-28	2
	6	0	10.20	17.10	6.05	92		12-10	2
		14	11.10	18.29	5.75	90		11-9	2

Location: D'ENTRECASTEAUX CHANNEL

Date	Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>
1954 31.vii	1	0	10.40	18.54	5.77	90	8.02	11-5	39
		40	9.60	18.88	5.20	80	8.07	13-0	54
	6	0	10.00	17.90	3.15	48	8.10	11-5	27
		20	10.20	18.59	7.00	108	8.09	13-6	33
23.viii	1	0	10.10	18.14	4.47	69	8.11	0-5	38
		18	10.40	18.77	6.05	94	8.11	14-0	43
	6	0	10.70	17.27	6.35	98	8.14	9-5	30
		16	10.90	18.72	3.58	56	8.11	7-1	38
17.ix	1	0	11.00	18.10	6.35	99	8.21	7-4	0
		21	10.70	18.88	5.90	93	8.32	9-16	17
	6	0	11.10	17.92	6.40	100	8.29	7-10	10
		12	11.10	18.20	6.50	102	8.35	7-7	5
22.x	1	0	11.80	18.58	6.05	97	8.05	1-9	0
		46	11.80	19.08	5.90	95	8.18	5-10	28
	6	0	11.90	18.54	6.20	99	8.29	5-5	45
		15	11.90	18.54	6.05	97	8.28	3-9	0
15.xii	1	0	15.40	18.91	5.33	91	8.22	0-11	0
		50	13.60	19.20	5.80	97	8.25	3-4	0
	6	0	14.80	19.03	5.50	94	8.24	3-4	0
		13	14.40	19.19	5.33	90	8.24	6-12	0

Location: PITTWATER - TASMANIA

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 28.i	2	S	16.70	19.40				22-18	8
	3	S	16.70	19.72				17-22	5
	4	S	16.10	20.01				33-36	13
24.ii	2	S	17.20	17.78				15-8	10
	3	S	17.20	18.03				11-10	19
	4	S	16.70	19.57				17-53	94
24.iii	2	S	14.40	19.21				24-29	58
	3	S	14.40	19.20				4-55	15
	4	S	13.90	19.28				10-23	18
28.iv	2	S	12.20	19.44				24-0	40
	3	S	12.20	19.40				4-16	3
	4	S	12.20	19.44				10-7	29
27.v	2	S	11.10	19.22				6-9	43
	3	S	11.10	19.22				1-11	11
	4	S	11.10	19.11				6-9	10
24.vi	2	S	10.00	15.03				15-4	3
	3	S	10.00	15.37				12-8	3
	4	S	10.00	14.68				13-9	2
29.vii	2	S	8.90	17.36				7-9	0
	3	S	8.90	17.58				8-6	0
	4	S	8.90	17.14				10-6	0
26.viii	2	S	10.00	18.08			8.02	8-3	4
	3	S	10.00	18.29			8.07	5-11	4
	4	S	10.00	18.02			8.05	7-9	4
23.ix	2	S	13.30	18.30			8.06	25-15	20
	3	S	13.30	18.40			8.00	0-10	0
	4	S	13.90	18.18			8.10	33-2	20

Location: PITPWATER - TASMANIA

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
21.x	2	S	13.40	19.14			8.25	15-0	
	3	S	12.20	19.12			8.25	4-4	
	4	S	14.50	19.15			8.25	20-6	
24.xi	2	S	16.70	19.33				6-8	
	3	S	15.60	19.04				6-7	
	4	S	16.70	19.33				20-0	
22.xii	2	S	19.40	20.60			8.14	18-24	
	3	S	18.90	19.44			8.10	12-7	
	4	S	20.00	19.86			8.12	24-20	

Station:

PITTWATER - TASMANIA

Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silic	
25.4	2		829	53.8		1.6	33	
	3		2653	62.0		3.9	5	
	4		1189	67.1		3.0	17	
24.11	2	2.0	109	340	37.8	26	4.3	17
	3	8.75	47	1386	27.5	52	7.3	15
	4	9.25	188	428	118.7	22	2.9	41
24.111	2		302	453	38.6	28	7.5	
	3	1.75	403	220	108.9	39	6.2	16
	4		466	1400	191.6	14	2.1	
28.iv	2	2.0	0	507	19.1		6.4	5
	3	1.75	0	534	20.5		5.6	6
	4	49.5	21	252	16.0	14	2.0	50
27.v	2	0.75	160	800	12.8	26	3.7	54
	3	1.75	142	1067	11.0	34	5.3	67
	4	1.0	139	620	10.5	23	2.7	22
24.vi	2	1.0	31	884	23.7	23	5.5	6
	3	1.25	74	702	21.1	28	5.2	13
	4	8.0	38	351	15.7	7	1.8	72
29.vii	2	5.75	39	341	18.5	22	1.8	53
	3	3.25	167	480	29.1	40	5.5	10
	4	7.5	81	280	17.9	16	1.9	30
26.viii	2	1.75	147	261	12.6	24	3.0	4
	3		5	686	41.6	40	4.5	
	4	9.25	144	256	25.1	15	1.6	54
23.ix	2	0.25	25	268	27.1	21	2.9	11
	3	24.0	0	1476	14.6	74	6.9	12
	4	8.0	82	302	25.2	14	1.6	70

Location: PITTWATER - TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	%
1954								
21.x	2			1034	15.8	16	1.7	36
	3			385	21.9	13	1.6	53
	4			499	37.5	10	2.7	
24.xi	2			1028	17.0	20	2.5	0.5
	3			1221	17.6			10
	4			313	25.3	14	1.5	29
22.xii	2		0	571	36.3		2.0	3
	3		0	1452	67.3		3.6	0.5
	4		62	311	24.1	13	1.4	22

Station: PORT SORELL - TASMANIA

DATE	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 28.vii	1	S	10.20	4.63	5.20	69	8.36	19-8	104
29.vii	2a	S	11.40	18.31	6.40	101	8.04	0-11	25
	2b	S	11.60	18.98	4.47	72	8.08	0-14	13
29.ix	1	S	13.40	16.18	6.15	99	7.97	9-12	91
	2	S	13.80	17.55	6.30	103	7.94	4-15	193
30.x	1	S	15.60	17.45	2.92	49	8.09	13-3	0

Location: PORT SORELL - TASMANIA

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	%
1954								
19.viii	1	6.5	0	707	17.7	25	2.3	16
	2	11.0	2	539	10.2	26	2.8	25
	3	1.75	17	632	28.6	27	3.0	7
29.viii	1	1.75	64	470	10.8	36	3.4	7
	2	7.0	0	520	12.0	19	2.3	19
	3	10.25	0	680	15.6	25	2.4	28
29.ix	1			1286	32.8	18	14.3	19
	2			983	21.3	24	2.1	14
	3			1029	21.0	25	4.0	39
30.x	1			793	9.3	25	3.8	24
	2			862	22.7	18	2.3	11
	3			1244	30.6	17	2.2	4

Station: SWAN RIVER

Station	Depth	Temp. °C	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1	S	23.50	18.84	4.80	95		4-8	
	D	22.20	19.97	5.15	100		8-0	
2	S	22.90	19.09	4.92	96		4-2	
	D	22.85	19.18	4.98	97		4-11	
3	0	24.10	17.81	5.80	114		7-5	
	2	24.00	17.86	5.71	112		4-19	
	4	23.85	17.90	5.78	114		7-15	
	6	23.60	17.98	5.75	112		5-6	
	9	22.80	18.67	5.23	101		4-4	
3a	0	24.05	17.95	5.48	108		5-15	
	2	23.90	17.95	5.59	110		5-25	
	4	23.65	18.00	5.64	110		5-27	
	6	22.95	18.40	5.43	107		9-27	
	8	22.90	18.84	5.15	100		5-20	
	10	22.65	19.18	5.01	97		4-20	
	12	22.50	19.33	4.86	95		8-6	
	14	22.35	19.41	4.42	86		9-11	
	15	22.35	19.58	3.73	72		16-4	
	4	0	24.15	17.81	5.54	109		3-24
2		24.05	17.81	5.57	109		2-23	
4		23.60	17.90	5.61	109		5-25	
6		23.10	18.18	5.38	105		5-22	
8		22.70	18.59	4.93	96		4-26	
10		22.40	18.99	4.42	85		7-23	
12		22.05	19.33	3.88	75		6-17	
14		22.00	19.38	3.50	68		9-16	
16		22.10	19.43	3.05	59		14-15	
18		22.20	19.58	3.10	60		19-11	
4a	0	24.35	17.81	5.48	108		4-19	
	2	23.95	17.81	5.61	109		4-20	
	4	23.80	17.86	5.57	109		4-27	
	6	22.90	18.30	5.07	98		8-26	
	8	22.70	18.84	4.46	87		9-26	
	10	22.30	19.04	3.88	75		9-20	
	12	22.00	19.18	3.55	69		9-19	
14	21.90	19.23	3.33	64		15-17		

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P
1954								
12.i	4b	0	24.30	17.76	5.48	108		
		2	24.25	17.76	5.43	107		5-22
		4	24.10	17.86	5.43	107		4-20
		6	22.70	18.28	4.93	96		4-23
		8	22.30	18.77	4.33	83		8-18
		10	22.10	19.18	3.55	69		12-4
		12	22.00	19.28	3.39	65		15-13
								15-14
	5	0	24.20	17.72	5.12	101		
		2	24.20	17.72	5.12	101		5-15
		4	23.80	17.82	4.98	97		4-9
		6	22.40	18.21	4.77	91		12-6
		8	22.10	18.82	2.78	53		10-9
		10	22.05	19.23	2.63	51		17-7
		12	22.05	19.31	2.53	49		22-13
								25-13
	6	0	24.35	17.77	5.12	101		
		2	24.15	17.72	5.18	102		9-16
		4	23.60	17.80	4.80	95		13-18
		6	22.70	18.31	3.42	66		11-24
								20-16
	7	0	24.70	16.79	4.53	89		
		2	24.15	16.84	4.66	90		10-21
		3	24.05	17.18	4.66	90		11-20
								8-30
5.11	3	0	23.80	19.25	5.30	105		
		2	23.45	19.23	5.36	106		10-16
		4	23.25	19.24	5.47	108		8-11
		6	23.20	19.25	5.38	106		11-7
		9	23.10	19.33	5.36	106		9-10
								10-14
	3a	0	23.95	19.23	5.38	108		
		2	23.50	19.20	5.43	108		8-17
		4	23.05	19.22	5.47	107		9-16
		6	23.05	19.25	5.26	103		13-9
		8	23.05	19.27	5.20	102		13-9
		10	22.90	19.37	5.04	99		16-2
								9-15

Station: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
3a	12	22.90	19.49	5.04	99		10-11	
	14	22.80	19.57	5.04	99		9-11	
	16	22.80	19.69	4.97	98		11-8	
4	0	23.60	19.22	5.70	113		9-13	
	2	23.30	19.18	5.66	111		11-13	
	4	23.15	19.19	5.73	113		12-10	
	6	23.15	19.19	5.43	107		13-9	
	8	23.10	19.23	5.34	105		12-13	
	10	22.75	19.43	5.20	102		12-10	
	12	22.65	19.53	5.07	99		12-10	
	14	22.60	19.68	4.80	94		13-9	
	16	22.55	19.69	4.56	89		13-9	
	18	22.55	19.74	4.34	85		12-9	
	20	22.55	19.76	4.34	85		14-11	
4a	0	23.55	19.09	5.16	102		8-13	
	2	23.25	19.07	5.26	104		9-11	
	4	23.10	19.06	5.30	104		13-9	
	6	23.00	19.10	5.30	104		10-15	
	8	22.75	19.12	5.36	105		8-19	
	10	22.70	19.25	4.78	93		8-12	
	12	22.65	19.54	4.53	89		12-13	
	14	22.65	19.63	4.25	83		13-13	
4b	0	23.55	19.09	4.85	96		12-15	
	2	23.10	19.10	4.92	96		12-12	
	4	22.80	19.10	4.94	96		15-10	
	6	23.00	19.15	4.63	91		12-17	
	8	22.80	19.20	4.60	91		14-8	
	10	22.70	19.42	4.57	90		13-15	
	13	22.65	19.49	4.25	83		14-13	
5	0	23.50	18.97	4.91	97		13-19	
	2	23.50	18.97	5.04	100		15-16	
	4	23.25	19.00	5.07	100		13-14	
	6	23.10	19.03	4.94	97		16-12	
	8	22.75	19.13	4.53	89		15-11	
	10	22.75	19.16	4.30	84		19-17	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 5.11	6	0	23.55	18.69	4.78	93		17-19		
		2	23.50	18.67	4.78	93		33-0		
		4	23.35	18.67	4.83	94		16-13		
		6	23.25	18.83	4.63	90		17-10		
	7	0	23.40	18.22	4.06	79		20-19		
		1.5	23.35	18.24	4.25	83		21-17		
		3	23.35	18.41	4.14	79		20-20		
	7.iv	3	0	21.15	20.12	4.87	93		8-10	0
			2	20.90		4.98	96		7-5	0
			4	20.85		5.16	99		6-3	0
			6	20.85		5.18	99		4-9	0
			9	20.85	20.12	5.06	97		7-5	0
3a		0	20.90	20.12	4.89	93		9-2	0	
		2	20.85		4.89	93		8-6	0	
		4	20.85		4.98	95		7-8	0	
		6	20.85		4.98	95		5-11	0	
		8	20.85		5.02	96		11-5	0	
		10	20.85		4.95	95		9-6	0	
		12	20.85		4.80	91		8-8	0	
		14	20.85	20.12	4.98	95		12-3	0	
		4	0	21.65	19.95	5.27	102		11-7	0
2			20.95		5.27	102		8-12	0	
4			20.55		5.24	101		14-6	0	
6			20.85		5.21	101		16-10	0	
8			20.85		5.21	101		16-24	0	
10	20.85			5.21	101		14-19	0		
12	20.85			5.09	97		12-21	0		
14	20.85			4.80	92		16-12	0		
16	20.85			4.68	89		16-8	0		
18	20.85			4.77	91		14-7	0		
20	20.85	20.07	4.77	91		12-1	0			

Station: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 IV	4a	0	21.50	19.92	5.47	106		10-6	0
		2	21.00		5.40	105	12-0	0	
		4	20.85		5.30	103	12-4	0	
		6	20.80		5.30	103	13-6	0	
		8	20.75		5.13	99	13-0	0	
		10	20.85		4.98	95	13-2	0	
		12	20.85		4.68	89	13-3	0	
		14	20.75		20.00	4.50	91	13-5	0
	4b	0	21.15	19.90	5.06	98	13-3	0	
		2	20.80		5.13	99	16-5	0	
		4	20.75		5.09	98	15-4	0	
		6	20.70		5.02	96	15-4	0	
		8	20.70		4.87	93	14-0	0	
		10	20.70		4.87	93	14-5	0	
13		20.70	4.71		90	12-9	0		
5	0	21.15	19.90	5.27	102	11-11	0		
	2	20.85		5.13	99	11-7	0		
	4	20.80		5.13	99	19-2	0		
	6	20.70		5.13	99	14-0	0		
	8	20.70		5.09	98	19-7	0		
	10	20.45		4.89	93	14-10	0		
	12	20.45		4.64	88	16-9	0		
6	0	21.00	19.53	4.87	92	13-18	0		
	2	20.70		4.98	95	16-17	0		
	4	20.80		5.18	99	16-17	0		
	6	20.80		19.82	5.06	96	15-13	0	
7	0	20.80	19.42	5.13	98	13-19	0		
	2	20.70		4.92	94	18-10	0		
	3	20.70		19.67	4.50	86	20-18	0	
5.v	3	0	18.40	19.96	5.13	94	6-1	0	
		2	18.35		5.35	98	3-6	0	
		4	18.35		5.30	97	4-12	0	
		6	18.35		5.30	97	4-5	0	
		9	18.40		5.24	96	6-6	0	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 5.v	3a	0	18.30	19.96	5.06	93		3-9	0	
		2	18.20		5.19	95	5-8	0		
		4	18.20		5.19	95	4-3	0		
		6	18.20		5.24	96	6-2	0		
		8	18.20		5.19	95	4-11	0		
		10	18.20		5.06	93	7-1	0		
		12	18.20		5.19	95	6-2	0		
		14	18.25		5.19	95	8-2	0		
		16	18.20		5.19	95	3-8	0		
		4	0		18.05	19.96	5.06	108	7-5	0
			2		18.00		5.06	108	8-4	0
			4		17.95		5.19	95	5-11	0
			6		17.95		5.19	95	9-3	0
			8		17.95		5.30	97	8-1	0
			10		17.95		5.13	94	7-0	0
			12		17.95		5.19	95	6-5	0
	14		17.95	5.24	96		5-7	0		
	16		17.95	5.24	96		9-0	0		
	18		17.95	5.30	97		6-9	0		
	20		17.95	5.19	95		6-6	0		
	4a		0	18.20	19.96		5.40	98	6-9	0
		2	18.05	5.47		100	7-10	0		
		4	17.95	5.52		101	4-12	0		
		6	17.90	5.52		101	6-8	0		
		8	17.90	5.52		101	8-9	0		
		10	17.90	5.35		99	9-5	0		
		12	17.90	5.47		100	7-9	0		
		14	17.90	5.52		101	5-10	0		
		4b	0	17.95		19.77	5.73	104	4-12	0
			2	17.80			5.73	104	7-8	0
	4		17.75	5.52	100		8-5	0		
	6		17.80	5.73	105		4-13	0		
	8		17.80	5.65	103		7-15	0		
	10		17.80	5.40	99		3-23	0		
		12	17.80	19.92	5.40	99	8-11	0		

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 5.v	5	0	17.65	19.57	5.65	102		3-17	0	
		2	17.70		5.84	105	2-21	0		
		4	17.65		5.88	106	2-17	0		
		6	17.80		5.73	103	4-14	0		
		8	17.80		5.59	101	3-16	0		
		10	17.80		5.35	97	0-20	0		
		12	17.80		5.47	99	6-9	0		
		6	0		17.50	19.43	5.59	100	2-38	0
			2		17.40	5.59	100	1-21	0	
			4		17.55	5.52	99	0-21	0	
			6		17.60	5.52	99	0-19	0	
		7	0		17.70	19.14	5.19	93	0-13	0
2	17.65		5.30	95	3	0				
3	17.65		19.33	5.40	97	3-12	0			
18.v	3	0	17.40	19.67	4.83	87	8-9	0		
		2	17.40	5.05	91	6-8	0			
		4	17.40	5.17	93	7-8	0			
		6	17.40	5.23	94	7-10	0			
		9	17.35	19.67	5.05	91	6-8	0		
3a	0	17.50	19.67	5.05	91	5-12	0			
	2	17.45	5.13	92	5-10	0				
	4	17.45	5.13	92	7-11	0				
	6	17.45	5.09	92	6-12	0				
	8	17.45	5.05	91	4-12	0				
	10	17.45	4.98	90	8-7	0				
	12	17.50	5.05	91	8-8	0				
	14	17.45	5.05	91	7	0				
	16	17.45	5.13	92	7-9	0				
	18	17.45	19.67	5.05	91	5-11	0			
4	0	17.50	19.62	5.46	98	5-13	0			
	2	17.50	5.36	96	4-13	0				
	4	17.40	5.39	97	4-12	0				
	6	17.40	5.4	98	5-15	0				
	8	17.40	5.28	95	5-13	0				

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>
1954 18.v	4	10	17.40	19.62	5.13	92		5-16	
		12	17.30		5.13	92		6-16	
		14	17.30		5.36	97		8-11	
		16	17.25		5.31	96		9-13	
		18	17.20		5.31	96		10-8	
		4a	0		17.50	19.67		5.49	
		2	17.45		5.20	93	13-3		
		4	17.50		5.58	100	9-13		
		6	17.45		5.58	100	7-15		
		8	17.40		5.58	100	9-12		
		10	17.35		5.46	98	9-12		
		12	17.30		5.52	98	10-14		
		14	17.00	19.67	5.41	96	8-10		
		4b	0	17.10	19.57	5.77	103	9-14	
			2	17.15		5.41	97	10-11	
			4	17.20		5.74	102	9-14	
			6	17.30		5.74	102	21-7	
			8	17.40		5.52	98	9-17	
			10	17.40		5.66	102	10-11	
			12	17.50	19.62	5.20	94	10-6	
		5	0	17.05	19.43	5.91	104	9-7	
			2	17.05		6.01	106	9-5	
			5	17.00		5.91	105	10-4	
			6	17.00		5.86	100	10-14	
			8	16.70		5.91	104	10-14	
			10	16.20	19.43	5.74	100	10-13	
		6	0	16.70	18.79	5.31	93	13-3	
			2	16.70		5.25	92	10-4	
			4	16.80		5.81	102	9-11	
			6	17.05	19.23	5.52	98	11-12	
		7	0	17.20	18.79	5.41	96	12-16	
			2	17.40		5.36	95	14-9	
			3	17.30	18.94	5.36	95	12-10	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 July	3	0	17.90	19.48	5.04	91		7-3	0
		2	17.90		5.23	94	6-7	0	
		4	17.90		5.16	93	5-10	0	
		6	17.80		5.31	96	5-11	0	
		9	17.80		5.04	91	7-11	0	
	3a	0	17.80	19.46	5.16	93		5-7	0
		2	17.80		5.23	94	6-8	0	
		4	17.80		5.31	96	5-8	0	
		6	17.85		5.23	94	5-9	0	
		8	17.90		5.11	92	5-8	0	
		10	17.80		5.11	92	6-11	0	
		12	17.80		5.11	92	5-7	0	
		14	17.75		5.11	92	5-8	0	
		16	17.55		5.11	92	7-9	0	
		18	17.50		5.11	92	6-6	0	
	4	0	16.90	18.99	5.59	99		4-11	0
		2	16.90		5.59	99	1-16	0	
		4	16.80		5.88	104	2-19	0	
		6	17.10		5.59	99	2-18	0	
		8	17.55		5.59	99	1-13	0	
		10	17.45		5.31	96	3-15	0	
		12	17.40		5.14	93	2-16	0	
		14	17.40		5.07	91	4-16	0	
		16	17.40		5.05	91	5-14	0	
		19	17.35		4.89	88	7-7	0	
	4a	0	16.60	18.89	5.76	102		1-27	0
		2	16.70		5.94	105	4-19	0	
		4	16.70		5.88	104	4-25	0	
		6	17.20		5.82	105	4-25	0	
		8	17.25		5.31	96	3-19	0	
		10	17.25		5.59	101	5-15	0	
		12	17.20		5.23	94	6-6	0	
	14	17.20	4.95	89	7-14	0			

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>			
1954 25.v	4b	0	16.80	19.04	5.65	99		3-22				
		2	16.80		5.70		4-17					
		4	17.20		5.65		4-17					
		6	17.20		5.55		6-12					
		8	17.20		5.36		6-16					
		10	17.20		5.17		7-12					
		13	17.20		4.95		7-8					
		5	0		16.75		18.89	5.72	101		3-22	
			2		16.75			5.85		4-16		
			4		16.95			5.76		3-23		
			6		17.05			5.17		7-12		
			8		17.10			5.23		7-11		
			10		17.10			4.95		8-8		
	12		17.10	4.89	7-17							
	6		0	16.75	18.70	4.77		84			6-11	
			2	16.70		4.89				6-20		
			5	16.95		5.16				10-14		
	7		0	16.35	18.70	4.72		83			9-15	
			2	16.80		4.59				9-8		
		3	16.80	4.95		9-15						
	1.vi	3	0	15.90	19.28	5.00	87		3-14			
			2	15.90		5.31		3-12				
			4	15.90		5.31		6-9				
			6	15.95		5.23		2-12				
			9	15.95		5.16		8-10				
		3a	0	15.90	19.28	5.16	90		6-11			
			2	15.90		5.36		6-10				
			4	15.90		5.31		6-9				
			6	15.95		5.31		5-8				
			8	15.90		5.23		9-8				
	10		15.90	5.11		5-9						
		12	15.90	5.31	7-5							
		14	15.90	5.31	2-12							
		16	15.90	19.28	5.23	91		6-14				

Station: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
4	0	16.00	19.18	5.55	96		5-15	0
	2	15.95		5.55		7-11	0	
	4	15.95		5.57		6-15	0	
	6	15.85		5.59		7-6	0	
	8	15.85		5.49		7-10	0	
	10	15.85		5.36		5-10	0	
	12	15.85		5.49		8-7	0	
	14	15.85		5.49		7-11	0	
	16	15.85		5.33		5-13	0	
	18	15.80		5.23		5-14	0	
	20	15.70	19.23	5.44	95	6-13	0	
4a	0	15.40	18.99	5.70	98		2-11	0
	2	15.40		5.76		2-17	0	
	4	15.50		5.59		6-15	0	
	6	15.70		5.62		4-17	0	
	8	15.70		5.57		5-17	0	
	10	15.85		5.55		4-15	0	
	12	15.80		5.44		4-14	0	
	14	15.55		19.09		5.46	94	5-14
4b	0	15.05	18.65	5.62	95		4-21	0
	2	15.55		5.64		5-19	0	
	4	15.55		5.55		3-13	0	
	6	15.70		5.64		3-16	0	
	8	15.85		5.55		2-16	0	
	10	15.85		5.36		5-15	0	
	13	15.85		19.04		5.31	92	4-10
5	0	14.30	18.16	5.76	96		2-16	0
	2	14.75		5.85		4-10	0	
	4	15.15		5.85		2-17	0	
	6	15.65		5.55		4-11	0	
	8	15.80		5.36		2-18	0	
	10	15.75		5.00		1-14	0	
	12	15.75	19.04	5.23	90	3-13	0	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
1.vi	6	0	14.35	17.91	5.88	98		9-18	11
		2	15.30		5.59			2-16	2
		4	15.20		5.59			6-15	4
		6	15.30	18.15	5.36	91		2-18	0
	7	0	14.90	16.49	5.36	89		12-13	37
		2	15.25		5.49			9-13	15
		3	15.35	18.01	5.31	90		11-11	4
9.vi	3	0	13.60	18.06	6.80	111		2-12	0
		2	13.60		6.87			2-13	0
		4	14.50		6.87			2-11	0
		6	14.80		6.87			2-11	0
		7	15.25						0
		8	16.05						
		9	16.05	18.74	6.06	105		7-14	0
	3a	0	13.50	17.91	6.96	114		4-15	0
		2	13.55		7.32			3-13	0
		4	14.30		7.11			4-15	0
		6	14.75		6.87			4-14	0
		8	15.55		6.50			3-12	0
		10	15.75		6.26			3-13	0
		12	15.90		5.88			2-10	0
		14	16.05		5.88			4-10	0
		16	16.20		5.68			2-12	0
		18	16.20	19.04	5.73	100		4-5	0
	4	0	13.35	17.81	7.04	115		7-9	0
		2	13.30		7.04			4-15	0
		4	13.30		7.17			5-14	0
		5	13.30						
		6	14.95		7.11			5-12	0
		8	15.80		6.64			4-17	0
		10	15.90		5.94			5-13	0
		12	16.00		4.82			10-11	11
		14	16.00		4.82			9-12	4
		16	16.00		5.00			9-12	10
		18	16.00		5.10			8-13	10
		20	16.00	18.89	6.03	105		5-8	0

STATION: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
4a	0	13.50	17.86	6.76	111		1-17	0	
	2	13.50		6.37		4-10	0		
	4	13.45		6.64		4-17	0		
	5	13.45							
	6	15.15		6.93		4-19	0		
	8	15.80		6.32		4-13	0		
	10	15.90		5.88		4-14	4		
	12	16.00		5.48		7-6	0		
	14	16.00		18.89		5.00	97	10-3	0
4b	0	13.50	17.86	6.50	106		2-17	0	
	2	13.50		6.96		2-14	0		
	4	14.15		7.03		2-20	0		
	5	15.20							
	6	15.70		5.70		1-15	0		
	8	15.85		5.70		2-18	0		
	10	15.95		5.48		4-12	7		
	13	15.95		18.94		4.94	86	5-13	0
5	0	13.60	17.90	5.10	84		4-16	0	
	2	13.60		6.26		1-22	0		
	4	15.90		6.64		4-19	0		
	6	16.00		5.88		2-13	41		
	8	15.90		5.05		1-16	67		
	10	15.90		4.82		3-19	0		
	12	16.00		18.94		4.77	83	3-18	4
6	0	13.00	17.42	6.96	112		2-10	0	
	2	13.00		6.37		4-7	0		
	3	15.60							
	4	15.70		6.69		4-20	0		
	6	16.00		18.30		6.00	103	2-17	0
7	0	13.45	16.93	6.50	105		2-14	29	
	1	15.45							
	2	16.10		6.26		2-19	10		
	3	16.10		17.77		5.88	107	3-24	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	
1954 15.vi	3	0	15.15	18.43	6.50	110		5-21	
		2	15.35				6.80	1-22	
		4	15.35				6.69	4-16	
		6	15.40	6.80	4-12				
		7	16.10						
		9	16.50	18.89	6.37	112	4-11		
		3a	0	14.45	18.11	7.25	122		5-25
			2	14.35				7.32	5-31
			4	14.85				7.17	5-15
	5		15.40						
	6		16.00		6.92		6-13		
	8		16.15		6.57		4-16		
	10		16.25		6.14		4-10		
	12		16.40		5.81		4-4		
	14		16.35		5.75		2-14		
	16		15.80		5.75		4-20		
	18		15.80	19.28	5.29	92	13-6		
	4		0	14.30	18.06	7.52	125		6-8
			2	14.00				7.42	6-13
		4	15.10	7.47				5-10	
		6	15.80	7.17	6-7				
		8	15.75	6.00	5-6				
		10	15.70	5.66	6-13				
		12	15.70	5.39	5-16				
		14	15.75	5.46	8-7				
		16	15.75	5.29	6-9				
		18	15.75	5.29	8-10				
		20	15.75	19.28	5.29	90	7-9		
		4a	0	14.15	18.01	7.38	123		5-14
			2	14.00				7.48	4-15
	4		14.20	7.42				6-12	
	6		15.35	6.87	6-5				
	8		15.70	6.06	4-11				
	10		15.80	5.88	5-8				
	12		15.80	5.70	5-7				
	14	15.85	19.25	5.29	92	8-5			

SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
4b	0	13.95	17.96	7.37	123		4-12	0	
	2	13.75		7.44			5-11	0	
	4	14.85		7.14			6-7	0	
	6	15.45		6.50			4-14	0	
	8	15.70		5.94			4-16	0	
	10	15.70		5.22			5-10	0	
	13	15.70		5.17			89	4-11	0
5	0	14.15	17.91	7.03	117		5-15	0	
	2	14.00		7.25			6-16	0	
	4	15.55		6.37			5-4	0	
	6	15.75		5.75			5-9	0	
	8	15.75		4.77			5-8	0	
	10	15.75		4.45			6-9	0	
	12	15.85		4.62			80	5-9	0
6	0	14.45	17.86	5.82	97		3-11	0	
	2	14.35		6.37			3-9	0	
	3	14.60		5.75			83	7-12	0
	4	15.65						8-13	0
	6	15.75						18.40	4.82
7	0	13.95	17.91	6.69	111		6-13	0	
	1	14.00		6.66			5-13	0	
	2	15.15					6-12	0	
	3	15.70		17.91			5.88	101	
22.v1 3	0	14.85	18.15	5.88	99		6-3	0	
	1	15.05		5.94			6-6	0	
	2	15.70					4-6	0	
	4	16.00					5-5	0	
	6	16.30					5.54	5-3	0
	9	16.40		18.89			5.48	96	
3a	0	14.60	17.76	5.88	98		5-4	0	
	2	14.90		6.00			5-3	0	
	4	15.20		5.94			4-8	0	
	6	15.50		5.82			3-6	0	
	8	15.70		5.82			4-7	0	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N								
1954 22.vi	3a	10	16.05	19.04	5.70	88		4-2									
		12	16.10					3-2									
		14	16.10					5-6									
		17	16.20					9-1									
	4	4	0	14.85	17.37	5.66	94		5-6								
			2	14.90					4-8								
			4	15.10					4-10								
			6	16.00					4-8								
			8	16.00					2-6								
			10	16.05					2-9								
			12	16.00					6-6								
			14	16.00					6-1								
			16	16.00					9-0								
			18	16.00					8-4								
			20	16.00					9-3								
			4a	4a					0		14.65	17.17	5.82	97		6-4	
									2		14.65					5-8	
									4		14.90					8-1	
									6		15.70					3-8	
									8		15.85					4-4	
	10	15.85			2-7												
	12	15.90			4-7												
	14	15.90			6-2												
	4b	4b	0	15.45	17.66	5.36	91		4-6								
			2	15.45					4-6								
			4	15.55					3-7								
			6	15.80					4-6								
			8	15.85					4-3								
			10	15.85					2-5								
			13	15.85					4-3								
	5	5	0	15.30	17.81	5.60	95		6-5								
			2	15.35					6-3								
			4	15.35					4-7								
			6	15.75					4-5								
			8	15.85					4-5								

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 22.vi	5	10	15.85		4.95			5-3	0	
		12	15.85	18.74	4.82	83		4-3	0	
	6	0	15.20	17.52	5.94	100		8-0	0	
		2	15.00		6.06			4-4	0	
		4	15.60		6.00			5-5	0	
		6	15.65	18.01	5.66	97		4-7	0	
	7	0	16.05	17.76	5.36	92		3-7	13	
		2	15.85		5.10			3-7	0	
		3	15.90	18.01	2.37	41		4-12	0	
	29.vi	3	0	14.25	16.28	6.80	111		2-18	0
			1	14.25	16.28	6.76	110		3-16	0
			2	14.85	16.62	6.50	108		2-18	0
4			15.15	17.31	6.37	107		2-14	0	
6			15.30	17.51	6.32	107		2-13	0	
9			15.55	18.15	5.70	97		1-14	0	
3a			0	13.90	15.58	6.80	110		1-19	0
1	14.20	16.13	6.87	112		1-18	0			
2	14.55	16.28	6.87	113		3-19	0			
4	15.10	16.77	6.44	108		4-17	0			
6	15.30	17.41	6.06	102		3-16	0			
8	15.45	18.15	5.75	98		1-10	0			
10	15.50	18.50	5.60	96		1-10	0			
12	15.65	18.74	5.48	94		4-7	0			
14	15.75	18.89	5.48	95		5-8	0			
16	15.75	18.89	5.42	94		1-10	0			
18	15.75	19.13	5.48	95		5-7	0			
	4	0	14.10	15.58	7.17	116		1-17	0	
		1	14.40	16.33	6.96	114		3-14	0	
		2	14.75	16.57	6.87	114		2-17	0	
		4	15.30	17.21	6.37	107		1-14	0	
		6	15.45	17.76	6.00	102		2-13	0	
		8	15.50	18.10	5.60	95		1-9	0	
		10	15.55	18.40	5.54	95		2-6	0	
12	16.00	18.54	5.22	90		1-6	5			

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 29.vi	4	14	16.00	18.64	5.00	87		3-8	9	
		16	16.05	18.79	4.70	82		4-7	10	
		18	16.00	18.79	4.64	81		6-5	4	
		20	16.00	18.84	4.70	82		4-6	7	
	4a	0	14.00	15.43	6.96	112		3-15	6	
		1	14.90	15.48	6.92	111		4-14	6	
		2	14.75	15.58	6.80	111		5-10	2	
		4	15.15	16.77	6.44	108		2-14	3	
		6	15.45	17.31	6.26	106		4-9	0	
		8	15.65	18.10	5.36	92		2-9	0	
		10	15.95	18.45	5.36	92		4-3	5	
		12	16.10	18.59	5.22	90		4-5	7	
		14	16.10	18.74	4.48	78		4-10	7	
		4b	0	14.45	16.13	6.80	111		9-9	0
			1	14.25	16.57	6.96	114		4-10	0
			2	15.00	16.57	6.76	112		9-2	0
			4	15.25	16.82	6.37	107		8-6	0
			6	15.45	17.66	6.14	104		11-9	0
	8		15.80	17.95	5.75	98		4-5	8	
	10		15.95	18.30	5.17	89		3-7	0	
	13		16.05	18.59	4.53	78		3-8	4	
	5	0	14.10	13.55	6.50	103		7-13	73	
		1	14.85	16.13	6.44	106		5-13	7	
		2	14.60	16.23	6.26	103		4-11	0	
		4	15.30	16.33	5.70	95		5-10	0	
		6	15.65	17.46	5.36	91		8-4	0	
		8	15.80	18.15	4.95	85		8-2	0	
		10	15.95	18.50	4.31	74		6-9	0	
		12	16.00	18.64	3.76	65		9-9	15	
	6	0	14.45	14.79	6.57	106		8-16	50	
		1	15.00	16.28	6.57	106		5-9	0	
		2	14.80	16.52	6.37	106		5-15	0	
		4	15.65	16.97	6.44	109		6-12	0	
		6	15.70	17.02	4.58	77		6-10	0	

Station: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
954 29.vi	7	0	15.00	16.28	5.70	95	4-12	5
		1	15.00	16.52	5.94	99	4-7	0
		2	14.90	16.62	5.82	97	5-13	0
		3	15.50	17.26	3.98	67	4-14	0
6.vii	3	0	13.05	15.40	7.69	122	8-11	0
		2	13.10	15.37	7.69	122	7-6	0
		3	13.15	15.32	7.80	123	7-2	0
		4	14.35	16.10	7.48	122	5-4	0
		6	15.10	17.18	6.71	113	7-5	0
		9	15.35	18.16	6.13	105	6-3	0
	3a		0	13.10	15.27	8.36	132	8-12
		2	13.10	15.42	7.69	122	8-12	0
		3	14.00	15.91	7.44	120	6-7	0
		4	14.85	16.79	6.82	113	4-12	0
		6	15.15	17.23	6.26	105	6-6	0
		8	15.45	18.04	5.87	100	6-3	0
		10	15.65	18.50	5.66	97	5-8	0
		12	15.70	18.65	5.66	97	2-8	0
		14	15.70	18.99	5.47	95	5-6	0
		16	15.90	19.04	5.54	96	5-6	0
		18	15.90	19.09	5.47	95	11-0	0
4			0	12.65	15.27	7.55	118	9-12
		2	12.70	15.27	7.74	121	9-14	0
		3	12.80	15.27	7.66	120	8-8	0
		4	14.50	15.86	7.02	115	4-11	0
		6	15.65	16.94	5.58	94	4-10	0
		8	15.75	18.16	5.41	93	5-6	0
		10	15.85	18.65	5.28	91	2-6	3
		12	15.90	18.80	5.14	89	6-0	4
		14	15.90	19.04	5.26	91	4-7	0
		16	16.15	19.07	5.41	94	5-8	0
		18	16.15	19.18	5.47	96	4-7	0
		20	16.15	19.18	5.34	93	7-7	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 6.vii	4a	0	13.30	15.37	6.06	96		5-18	0	
		2	13.35	15.47	7.25	115		8-6	0	
		3	13.45	15.37	7.11	113		7-7	0	
		4	14.10	15.56	7.34	118		5	0	
		6	15.70	16.45	6.45	109		6-7	0	
		8	15.85	17.23	5.76	98		5-5	2	
		10	16.00	18.40	5.11	88		6-7	12	
		12	16.10	18.80	4.75	83		4-7	8	
		14	16.10	19.04	4.47	78		9-5	8	
		4b	0	13.15	15.71	6.26	100		9-11	0
			2	13.50	15.86	6.89	110		6-14	0
			3	14.25	15.95	6.89	112		4-10	0
			4	15.25	16.45	6.71	112		7-9	0
			6	15.75	17.77	5.94	101		7-9	0
	8		15.90	17.90	5.24	90		4-11	3	
	10		16.00	18.40	5.00	86		4-12	6	
	13		16.00	18.89	4.53	79		8-8	8	
	5	0	13.25	16.06	6.45	103		6-4	0	
		2	13.55	16.15	6.39	103		8-10	0	
		3	14.85	16.55	6.33	105		6-8	0	
		4	15.75	16.89	5.59	94		6-5	0	
		6	15.80	17.43	5.14	87		4-13	0	
		8	15.85	18.06	4.41	75		1-13	0	
		10	15.90	18.63	3.68	64		8-6	5	
	6	0	12.45	14.38	6.71	103		6-15	47	
		2	12.70	14.92	6.76	105		6-19	26	
		3	15.50	16.10	6.20	103		4-7	14	
		4	15.85	16.10	5.59	94		6-8	17	
		6	15.85	16.45	5.00	84		5-18	15	
	7	0	12.90	13.84	5.94	92		10-12	95	
		1	15.70	14.61	6.06	100		6-15	75	
		2	15.90	15.66	5.06	85		8-10	54	
		3	15.85	16.15	3.84	64		8-13	30	

Station: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 A.vii	3	0	14.75	17.18	6.06	101		3-10	4	
		1	14.85	17.42	6.26	105		4-6	2	
		2	15.70	17.77	6.20	106		2-8	0	
		4	15.80	18.21	5.87	101		3-10	6	
		6	16.10	18.70	5.47	95		5-6	3	
		9	16.15	18.89	5.66	98		4-5	3	
		3a	0	14.55	16.93	6.39	106		4-3	6
			1	14.80	16.88	6.50	109		3-9	3
			2	15.20	17.08	6.31	106		4-4	0
	4		15.35	17.37	6.20	105		5-6	2	
	6		15.50	17.96	5.94	101		4-8	0	
	8		15.65	18.40	5.66	97		2-8	2	
	10		15.85	18.50	5.47	94		3-5	3	
	12		15.85	18.65	5.47	94		3-8	2	
	14		15.95	18.50	5.58	96		4-9	4	
	16		16.00	18.74	5.47	95		5-4	0	
	18	16.00	18.84	5.54	96		4-7	3		
	4	0	14.75	16.69	6.45	109		2-7	2	
		1	14.65	16.69	6.45	109		3-13	0	
		2	14.85	17.03	6.50	108		2-11	0	
		4	15.15	17.28	6.26	105		3-8	0	
		6	15.40	17.67	5.94	101		1-12	10	
		8	15.50	18.21	5.53	94		2-11	0	
		10	15.55	18.40	5.53	95		1-10	5	
		12	15.55	18.60	5.24	90		3-9	6	
		14	15.60	18.79	5.24	90		4-9	2	
		16	15.60	18.94	5.24	90		2-13	2	
		18	15.60	18.99	5.28	91		4-7	0	
		20	15.60	18.99	5.11	88		4-5	0	
		4a	0	14.75	16.49	6.20	103		2-9	0
	2		14.50	16.49	6.51	104		2-11	0	
	3		15.15	16.64	6.40	107		2-8	0	
	4		15.30	16.78	6.16	103		3-11	0	
	6		15.35	17.42	5.81	98		2-9	0	
	8		15.50	17.56	5.50	94		4-9	0	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 14.vii	4a	10	15.60	18.45	5.26	90		4-8	
		12	15.55	18.70	5.23	90		6-5	12
		14	15.60	18.94	5.00	86		9-4	0
	4b	0	14.85	16.69	6.45	107		4-5	0
		2	15.00	16.69	6.56	109		4-11	0
		3	15.05	16.79	6.71	112		6-10	6
		4	15.10	16.93	6.45	108		3-6	0
		6	15.45	17.37	6.00	101		2-9	0
		8	15.45	18.11	5.47	93		3-10	2
		10	15.55	18.40	5.11	88		4-8	5
		13	15.60	18.74	4.87	84		2-9	2
	5	0	15.00	16.47	6.31	105		4-9	0
		2	14.90	16.47	6.60	110		6-5	0
		3	15.40	16.67	6.50	109		4-10	0
		4	15.60	17.02	5.94	100		2-10	14
		6	15.55	17.36	5.11	87		5-10	0
		8	15.55	18.35	4.60	79		5-11	3
		10	15.55	18.45	4.62	79		6-5	6
	6	12	15.55	18.89				8-7	6
		0	15.15	16.38	6.16	102		3-8	3
		1	15.05	16.67	5.96	99			
		2	14.90	18.87	5.72	97		3-10	11
		4	15.70	17.36	5.53	94		0-16	2
	7	6	15.75	17.71	4.35	74		1-18	3
		0	15.75	16.38	6.26	105		5-13	2
		1	15.45	16.38	6.09	102		2-16	2
		2	15.65	16.68	6.09	103		2-11	0
22.vii	3	3	16.00	16.87	5.20	88		5-16	2
		0	12.90	14.19	5.84	91		6-18	34
		1	12.90	14.32	6.09	94		6-9	28
		2	13.60	15.38	6.26	100		6-10	15
		4	13.90	16.38	6.18	101		6-9	2
		6	14.10	16.82	6.05	99		6-9	2
		9	14.15	17.46	5.75	95		8-15	5

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 22.vii	3a	0	13.00	12.90	6.09	94		6-11	44
		2	13.60	15.68	6.26	100		6-8	10
		4	13.60	16.16	6.18	100		6-9	2
		5	14.15	15.98	6.05	98		6-4	2
		6	14.25	16.82	6.00	98		5-6	0
		8	14.30	17.21	5.93	98		6-4	0
		10	14.60	17.76	5.75	96		3-6	0
		12	14.75	17.90	5.44	92		4-5	4
		14	14.95	18.25	5.44	93		4-6	6
		16	15.45	18.49	6.15	105		3-8	4
		18	15.55	18.40	5.27	90		8-5	4
	4	0	13.35	15.14	6.26	99		4-9	7
		1	13.55	15.98	6.05	96		6-7	5
		2	13.80	16.33	6.22	100		4-5	0
		4	14.05	16.82	6.22	101		3-6	0
		6	14.25	16.97	6.11	101		7-2	0
		8	14.50	17.26	5.88	98		5-9	0
		10	14.75	17.76	5.49	92		5-2	0
		12	15.30	17.89	5.24	89		5-6	0
		14	15.60	18.30	5.04	86		6-9	2
		16	15.65	18.35	4.81	82		8-9	9
	18	15.65	18.64	4.42	76		13-25	8	
	20	15.65	18.64	4.19	73		13-3	15	
	4a	0	13.20	12.65	6.34	98		7-14	67
		2	13.30	13.84	6.26	98		6-13	28
		4	13.70	15.43	6.26	101		9-7	9
		6	14.05	16.33	6.18	101		4-9	0
		8	14.35	16.77	5.93	97		4-16	0
		9	14.85	17.51	5.81	98		5-11	0
		10	15.00	17.51	5.57	94		5-13	0
		12	15.35	18.00	5.38	91		9-7	0
	14	15.40	18.25	4.78	81		5-9	4	
	4b	0	13.40	12.85	6.31	97		6-15	62
		1	13.20	13.58	6.31	97		6-15	51
		2	13.70	14.12	6.29	97		3-18	28
		4	13.75	15.96	6.18	100		5-17	10

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 22.vii	4b	6	14.00	16.57	6.18	101				
		8	14.35	17.17	6.05	100		3-17	0	
		9	14.95	17.36	5.57	93		3-15	37	
		10	15.25	17.71	5.06	85		2-14	0	
		13	15.25	18.08	5.01	85		3-13	0	
								4-11	2	
		5	0	13.45	11.63	6.29	96		9-6	69
			2	13.40	13.30	6.20	95		6-15	45
			4	13.65	15.48	6.15	99		5-14	7
			6	14.05	16.08	6.15	100		5-6	15
			7	15.00	16.13	6.00	100		4-15	7
			8	15.10	17.31	5.24	88		4-13	0
			10	15.15	17.86	4.99	85		5-5	0
			12	15.15	18.10	4.78	81		2-11	3
		6	0	13.75	16.23	6.11	99		8-11	0
			2	13.70	16.33	6.17	99		4-11	0
			4	13.65	16.42	6.41	103		5-11	0
			5	13.75	16.42	6.09	98		3-11	0
			6	14.30	16.72	5.04	83		4-13	0
		7	0	13.35	13.30	5.13	80		4-12	67
			1	13.70	13.97	5.90	94		3-18	16
			2	13.60	14.72	6.00	95		5-11	24
			3	13.70	15.68	5.56	89		5-14	9
27.vii	3	0	14.85	10.54	6.48	100		14	130	
		1	14.80	10.54	6.48	100		7	120	
		2	15.45	10.64	6.76	106		6	140	
		4	16.00	12.88	6.20	101		5	90	
		6	16.00	16.98	6.00	102		4	15	
		8	16.25	17.81	5.94	102		5	0	
		10	16.35	18.55	5.88	102		5	0	
		12	16.35	18.74	5.82	102		4	0	
			3a	0	15.35	10.84	6.89	108		9-14
		1		15.40	12.09	6.89	110		8-10	50
		2		14.65	12.56	6.65	105		5-24	55
			4	15.05	14.40	6.41	104		3-17	25

Station: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
3a	6	15.75	16.88	5.88	100		0-15	0	
	8	15.85	17.13	5.97	101		1-19	5	
	10	15.95	18.30	5.74	99		1-14	0	
	12	16.00	18.65	5.66	98		1-12	0	
	14	16.15	18.84	5.58	97		0-23	0	
	16	16.20	18.99	5.69	99		9-12	0	
	18	16.20	19.04	5.74	100		7-17	0	
	4	0	15.05	14.67	6.82	111		6-17	0
		1	15.00	14.75	6.76	111		8-11	0
		2	15.55	15.23	6.89	114		6-14	0
		4	14.85	16.19	6.31	104		4-15	0
		6	15.25	17.18	5.81	98		5-15	5
		8	15.35	17.89	5.26	89		5-22	20
		10	15.45	18.26	5.14	88		6-14	5
		12	15.55	18.40	5.24	90		7-9	5
		14	15.70	18.50	5.28	91		6-5	10
		16	15.70	18.70	5.41	93		7-7	0
	18	15.70	18.79	5.41	93		5-15	0	
4a	0	15.35	12.29	6.31	100		7-13	35	
	1	14.75	12.68	6.89	109		9-13	30	
	2	14.15	13.33	6.89	109		4-16	20	
	4	14.55	15.21	5.94	96		3-16	10	
	6	14.90	16.69	5.72	95		2-17	10	
	8	15.15	18.01	5.11	86		4-11	5	
	10	15.25	18.26	5.00	85		3-15	10	
	12	15.30	18.26	4.87	83		5-18	5	
	14	15.30	18.55	4.72	80		6-18	5	
	4b	0	15.25	11.84	7.30	106		11-9	60
2		14.85	12.53	7.19	104		9-6	35	
3		14.10	14.62	6.82	109		6-19	10	
4		14.20	14.76	6.82	109		7-8	0	
6		15.00	16.24	6.03	100		8-3	0	
8		15.35	17.52	6.03	102		5-8	2	
10		15.40	18.30	4.47	76		13-4	5	
13	15.45	18.30	4.63	79		14-6	5		

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	INO <sub>3</sub> -N		
1954 27.vii	5	0	15.00	9.09	6.82	104		13			
		2	14.90	10.84	6.76	105		9-12	16		
		3	14.30	11.69	6.65	103		10-13	9		
		4	14.15	13.23	6.27	99		8-6	8		
		6	15.55	15.75	5.47	91		7-9	46		
		8	15.00	16.88	4.84	81		5-14	5		
		10	15.10	17.77	4.26	72		8-11	5		
		12	15.15	18.06	4.02	68		10-8	5		
		6	0	15.20	11.89	6.99	111		8-6	65	
			1	14.45	12.88	6.94	109		8-12	30	
			2	14.30	14.12	6.70	107		8-6	10	
			4	14.45	16.19	5.54	91		7-8	0	
	6		14.60	16.59	5.05	83		6-2	0		
	7		0	15.05	15.90	5.34	88		7-13	5	
		1	14.45	15.63	5.76	94		9-9	0		
		2	14.30	16.05	5.58	90		6-9	0		
		3	14.35	15.88	5.72	93		8-17	0		
	6.viii	3	0	13.30	3.94	7.60	106		5-16	390	
			2	14.00	7.08	6.98	102		4-10	290	
			3	14.45	8.34	6.64	99		6-14	250	
			4	15.00	10.39	6.20	96		6-8	220	
			6	15.55	13.18	5.47	88		5-15	115	
			9	15.55	16.39	5.05	85		8-7	45	
			3a	0	13.10	3.78	7.55	104		7-20	420
				1	12.95	3.73	7.70	106		11-10	430
				2	13.95	6.52	7.01	102		5-21	340
		4		14.85	11.29	5.81	91		5-11	165	
		6		15.50	15.90	4.87	81		11-2	50	
		8		15.30	16.10	4.87	81		5-9	45	
		10		15.40	17.23	4.63	78		7-7	25	
		12		15.60	17.73	4.47	76		5-5	15	
		14		15.70	18.11	4.16	71		10-4	5	
		16	15.70	18.40	3.97	68		10-6	5		
		18	15.70	18.45	4.12	71		14-1	5		

Station: SWAN RIVER

Station	Depth	Temp. °C	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
954 iii	4	0	12.90	3.38	7.50	103	5-18	530
		1	12.90	3.38	7.60	104	6-13	510
		2	13.95	6.62	6.89	100	5-15	390
		4	14.45	12.75	5.34	84	3-10	125
		6	15.00	12.93	5.17	82	8-5	130
		8	15.15	15.31	4.75	78	5-10	55
		10	15.45	17.03	4.15	70	9-6	15
		12	15.55	17.77	4.02	69	10-9	5
		14	15.70	18.26	3.80	65	13-10	5
		16	15.70	18.50	3.91	67	14-6	0
	18	15.70	18.55	3.74	64	19-4	5	
	20	15.70	18.65	3.82	66	20-5	5	
	4a	0	13.00	3.17	7.55	104	7-19	530
		1	12.65	3.28	7.62	104	8-23	520
		2	14.15	6.47	6.48	94	5-13	390
		4	14.45	9.22	5.94	90	7-9	290
		6	14.75	13.43	4.87	78	5-5	85
		8	15.10	15.21	4.47	73	5-15	40
		10	15.30	17.13	3.70	62	8-17	10
		12	15.50	17.91	3.56	61	11-7	10
4b	0	13.10	3.38	7.34	101	8-19	520	
	1	13.00	3.73	7.39	102	6-15	490	
	2	14.25	6.62	6.82	100	5-21	330	
	4	14.25	10.77	5.67	87	7-9	165	
	6	14.65	13.82	4.82	77	6-11	75	
	8	15.00	14.65	4.41	72	4-15	35	
	10	15.30	17.13	3.56	60	7-10	10	
	13	15.45	17.86	3.25	55	9-12	10	
5	0	13.20	2.95	6.97	96	6-17	570	
	1	14.00	3.07	7.02	98	3-18	540	
	2	14.20	6.22	6.20	90	4-21	400	
	4	14.35	10.29	4.92	75	2-17	185	
	6	14.70	13.77	3.97	64	8-10	65	
	8	15.00	14.27	3.65	59	10-15	65	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 6.viii	5	10	15.20	16.74	2.69	45		13-11	15	
		12	15.30	17.18	2.45	41		15-11	20	
	6	0	11.85	2.00	6.37	85		4-30	570	
		1	13.65	2.56	6.50	90		5-25	530	
		2	14.20	5.56	6.05	87		3-34	440	
		4	14.45	9.49	4.68	71		3-17	300	
		6	14.85	12.66	3.50	55		1-26	155	
		7	0	11.60	1.49	6.32	83		10-22	580
	1		12.65	1.72	6.20	84		6-28	590	
	2		13.70	3.63	5.23	73		8-23	550	
	3		14.25	5.62	4.87	70		5-27	490	
	26.viii	3a	0	15.75	2.30	6.32	91		6-41	165
			1	15.35	2.30	6.32	90		8-41	170
			2	15.00	3.75	6.20	89		9-33	170
			3	15.50						
			4	16.00	11.10	5.28	84		8-20	80
			6	15.90	14.40	4.41	73		10-14	50
			8	15.55	15.60	4.41	73		13-8	40
			10	15.55	17.10	3.33	56		13-7	35
			12	15.70	17.40	3.15	53		19-3	25
			14	15.70	17.70	3.09	53		20-4	30
16			15.70	17.70	3.03	52		18-5	30	
4a			0	15.20	2.20	5.81	83		23-34	165
			1	15.20	2.20	6.00	85		23-31	200
			2	15.00	4.20	5.94	86		16-31	165
			4	15.45	9.90	4.63	72		13-23	85
	6	15.55	13.70	3.97	64		11-12	55		
	8	15.45	16.60	2.10	35		19-1	55		
	10	15.55	16.80	2.21	37		15-8	65		
	12	15.60	17.40	2.21	37		19-5	50		
14	15.65	17.40	2.32	39		20-5	60			

Station: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 26.7.111	5	0	15.45	1.80	5.28	75		43-30	155	
		1	15.30	1.80	5.24	74		40-28	180	
		2	15.15	5.00	5.47	80		21-22	135	
		4	15.40	11.70	3.21	51		12-13	75	
		6	15.30	13.30	2.26	36		18-12	70	
		8	15.45	15.60	1.45	24		22-6	95	
		10	15.50	16.50	1.52	25		21-8	60	
		6	0	14.85	1.40	5.06	71		23-30	250
			1	14.85	1.20	5.12	71		23-15	220
			2	15.15	3.70	5.24	76		18-23	165
			4	15.30	8.30	3.74	57		14-16	115
			6	15.30	11.20	2.26	36		21-14	85
	2.1x	3a	0	15.00		6.00			7-28	155
			1	14.55	3.50	6.71	95		7-24	200
			2	15.00	5.10	6.39	93		5-24	205
			4	15.55	7.90	5.81	88		6-15	180
			6	15.85	12.20	5.11	82		6-16	115
			8	15.80	14.90	4.58	76		12-8	60
10			15.70	16.30	3.80	64		12-11	70	
12			15.70	16.70	3.44	58		12-9	75	
14			15.75	17.30	2.80	47		16-11	75	
16			15.75	17.60	2.63	45		19-8	55	
		4	0	14.90	3.20	7.19	103		7-28	200
			1	14.70	3.10	7.03	100		6-31	220
			2	15.15	4.10	6.89	99		7-25	250
			4	15.80	7.30	6.06	92		4-25	160
			6	16.00	13.40	4.86	79		8-16	110
			8	15.70	14.40	4.30	71		14-8	85
			10	15.55	14.70	3.03	50		16-12	70
			12	15.60	17.10	2.45	41		21-6	80
	14	15.60	17.30	2.21	37		23-8	75		
	16	15.60	17.60	2.10	36		24-7	85		
	18	15.65	17.70	1.97	34		24-10	60		
	20	15.65	17.70	1.92	33		24-8	75		

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 2.1x	4a	0	15.00	2.60	6.98	99		9-37	255	
		1	15.00	2.70	7.19	102		6-38	300	
		2	14.85	3.10	7.19	102		4-36	255	
		3	15.50							
		4	15.90	8.40	5.66	87		2-27	230	
		6	15.75	10.50	4.86	76		10-14	95	
		8	15.55	12.70	3.85	62		17-12	115	
		10	15.55	15.80	2.40	40		24-3	65	
		12	15.55	16.30	1.80	30		28-3	55	
		14	15.60	16.30	1.65	28		26-5	115	
		4b	0	15.45	2.50	6.26	89		8-25	300
			1	15.60	2.80	6.65	95		5-25	310
			2	15.40	4.10	6.45	94		5-22	275
			4	15.80	8.30	5.59	86		5-17	215
	6		15.70	11.60	4.09	65		17-5	125	
	8		15.50	14.90	2.80	46		24-2	110	
	10		15.60	15.30	2.16	36		23-6	110	
	13		15.55	15.60	1.28	21		29-1	55	
	5	0	15.95	2.30	5.76	83		13-44	365	
		1	15.10	2.30	5.76	82		15-37	290	
		2	14.95	5.20	5.54	81		11-25	210	
		3	15.65							
		4	15.70	9.60	4.58	71		17-16	200	
		6	15.50	13.80	2.21	36		32-8	85	
		8	15.55	14.80	1.45	24		30-10	60	
		10	15.55	15.90	1.16	19		36-6	60	
	12	15.60	16.90	0.81	14		32-10	35		
	6	0	16.25	2.00	5.94	86		11-29	325	
		1	15.55	2.00	5.82	83		9-37	380	
		2	15.20	5.00	5.82	85		12-27	255	
		4	15.60	11.10	2.90	46		31-14	80	
		6	15.55	13.50	2.16	35		42-15	35	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 2.1x	7	0	15.60	1.50	5.87	83		20-28	300
		1	15.35	2.50	5.46	78		25-23	300
		2	15.35	4.90	5.29	78		20-22	195
		3	15.70	5.70	4.63	69		30-18	195
15.1x	3	0	17.85	7.08	7.74	122		4-9	0
		2	16.95	9.89	7.44	118		0-15	0
		4	16.95	12.29	6.94	114		2-12	0
		6	16.85	15.24	6.26	106		0-13	0
		9	16.80	17.03	5.77	100		2-13	0
	3a	0	17.40	6.62	7.70	120		6-19	0
		1	17.35	6.50	7.86	122		4-20	20
		2	16.70	9.74	6.94	110		1-16	0
		4	16.70	12.73	6.33	104		2-14	0
		6	16.70	14.84	5.94	100		2-13	0
		8	16.40	15.88	5.72	98		3-10	0
		10	16.70	17.01	5.34	92		2-12	0
		12	16.20	17.18	5.34	91		4-7	0
4	4	0	17.35	6.06	8.03	124		3-19	0
		1	16.80	6.65	7.65	118		2-14	0
		2	16.55	9.14	6.99	110		4-13	0
		4	16.00	13.43	5.29	86		4-8	10
		6	15.85	15.70	5.17	86		5-6	0
		8	15.60	17.23	4.09	69		6-8	20
		10	15.60	17.67	3.80	64		10-6	20
		12	15.60	18.01	3.51	60		14-5	30
		14	15.70	18.16	3.74	64		13-2	20
		16	15.70	18.40	3.84	66		14-4	20
		18	15.70	18.53	4.09	70		14-5	15
		20	15.70	18.55	4.22	73		16-8	10

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 15.ix	4a	0	17.25	5.95	7.25	112		0-28	0	
		1	16.40	6.00	8.09	123		3-23	25	
		2	16.55	10.37	6.20	99		1-22	0	
		4	16.05	12.25	5.59	90		1-13	0	
		6	15.70	14.94	4.47	74		5-12	25	
		8	15.65	16.52	3.73	63		6-13	40	
		10	15.65	17.26	2.96	50		13-12	55	
		12	15.60	17.84	2.75	47		17-11	50	
		14	15.60	17.98	2.90	49		18-8	40	
		4b	0	16.70	5.95	7.95	121		0-28	0
			1	16.25	6.30	8.03	122		2-21	0
			2	15.40	10.32	6.06	96		4-25	0
			4	14.85	14.49	4.62	74		3-8	10
			6	14.45	14.74	4.22	68		5-13	35
	8		14.40	16.42	2.96	49		7-12	70	
	10		14.35	17.46	1.63	27		16-14	75	
	13		14.40	17.46	2.40	40		14-14	65	
	5	0	16.55	5.34	7.86	117		1-15	0	
		1	16.25	7.09	7.11	109		5-16	0	
		2	15.70	11.00	5.05	80		3-20	175	
		4	15.15	14.19	2.50	41		11-16	45	
		6	15.05	14.04	2.90	47		11-32	40	
		8	15.00	16.36	1.52	25		3-36	60	
		10	15.00	16.87	1.05	18		3-45	65	
		12	15.00	17.21	2.26	38		3-38	85	
	6	0	17.10	4.52	7.20	109		3-27	70	
		1	17.30	6.94	7.02	109		4-22	15	
		2	16.30	8.43	5.88	92		4-13	30	
		4	15.85	9.12	5.34	83		8-16	30	
		6	15.75	13.55	2.96	48		20-19	30	
		7	0	17.40	2.93	5.87	88		8-26	250
	1		17.60	8.08	4.58	73		8-17	60	
	2		16.40	9.64	3.51	55		13-20	60	
	3		16.05	9.59	3.56	56		16-23	65	

ion: SWAN RIVER

Sta	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
54 ix	3	0	19.05	11.51	5.60	94		5-11	0	
		1	18.90	11.79	5.74	97		5-13	0	
		2	18.35	12.40	5.99	101		5-13	0	
		4	17.85	14.83	5.52	94		4-16	0	
		6	17.80	15.59	5.17	89		5-13	0	
		9	17.80	17.07	5.09	89		4-19	5	
		3a	0	19.60	11.41	5.74	98		3-17	5
			1	18.75	11.51	5.58	94		4-21	0
			2	18.50	12.70	5.90	100		4-29	0
	4		17.90	15.64	5.34	92		4-21	0	
	6		17.85	16.99	5.20	91		4-17	0	
	8		17.50	17.62	5.09	89		8-13	0	
	10		17.35	18.01	4.88	86		6-18	0	
	12		17.40	18.40	4.72	84		12-13	0	
	14		17.50	18.50	4.55	81		11-10	0	
	16		17.50	18.70	4.61	82		9-16	0	
	18		17.50	18.80	4.61	82		13-12	0	
	4	0	19.50	11.16	5.86	99		8-18	0	
		1	18.95	11.31	5.77	97		8-12	0	
		2	18.75	11.91	5.80	98		8-20	0	
		3	17.85							
		4	17.55	15.22	5.52	94		8-17	0	
		6	17.00	16.94	4.44	78		8-0	15	
		8	16.80	17.60	4.16	72		6-2	15	
		10	16.80	17.99	3.76	66		11-7	15	
		12	16.85	18.24	3.71	65		14-4	15	
		14	17.05	18.45	3.52	62		16-2	30	
		16	17.10	18.60	3.69	65		17-8	10	
		18	17.15	18.73	3.84	68		16-7	0	
		20	17.15	18.78	3.97	70		19-2	15	
	4a	0	19.40	11.16	5.24	76		5-8	0	
		1	18.60	11.16	5.06	84		5-10	0	
		2	18.75	12.45	5.50	93		5-10	0	
		3	17.60							
		4	17.25	15.66	4.55	78		6-10	0	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 29.ix	4a	6	16.70	16.89	3.64	63		9-9		
		8	16.55	17.13	3.79	65		9-13	25	
		10	16.55	17.87	3.09	54		15-7	25	
		12	16.65	18.06	3.09	54		18-6	35	
		14	16.65	18.21	3.12	54		20-9	50	
										30
	4b	0	20.15	11.06	5.80	99		9-24	0	
		1	19.20	11.16	6.02	101		7-26	0	
		2	18.95	12.30	6.13	104		9-29	0	
		3	17.25							
		4	16.95	14.63	4.84	82				
		6	16.55	15.76	4.28	72		9-30	0	
		8	16.40	16.45	3.12	53		8-27	25	
		10	16.55	17.23	2.68	46		8-22	40	
		13	16.50	17.99	2.68	46		11-17	45	
								16-14	55	
		5	0	20.30	10.44	5.58	95		6-19	0
			1	19.10	10.59	5.90	99		3-12	0
			2	19.05	12.80	5.44	93		6-19	0
	3		17.30							
	4		17.25	14.31	4.37	73				
	6		16.45	13.32	4.84	80		5-18	0	
	8		16.40	14.87	3.72	62		6-12	0	
	10		16.40	17.33	2.00	34		5-21	0	
	12		16.40	17.77	1.88	33		14-15	60	
								17-12	70	
	6		0	20.75	10.20	5.71	98		8-20	0
			1	18.80	11.01	5.65	94		9-14	0
		2	18.70	13.20	5.48	94		13-23	0	
		3	17.50							
		4	16.75	14.09	4.28	71				
		6	16.45	15.00	3.35	56		11-17	0	
	7							8-18	15	
		0	20.85	6.79	6.90	114				
		1	19.70	9.22	6.70	111		14-14	0	
		2	19.05	9.97	6.63	110		13-17	0	
		3	17.55	12.09	5.32	88		11-24	0	
							11-20	0		

STATION: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
3	0	18.15	14.12	5.65	96		20	0
	1	18.05	14.17	5.80	99		8	0
	2	18.05	14.17	5.89	101		10	0
	4	17.75	15.12	5.56	95		15	0
	6	18.15	16.36	5.37	94		10	0
	9	18.15	17.79	4.25	76		21	0
	3a	0	17.70	13.73	5.71	96		10-0
1		17.65	13.81	5.80	97		13-0	0
2		17.70	13.83	5.80	101		10-0	0
4		17.95	14.82	5.56	95		12-3	0
6		18.00	16.29	5.02	87		11-4	0
8		18.05	17.38	4.76	84		5-6	0
10		17.85	17.79	4.31	76		10-3	0
12		17.95	18.23	3.96	71		11-1	0
14		18.05	18.36	3.90	70		15-3	0
16		18.05	18.66	3.86	69		17-0	0
18		18.05	18.66	3.90	70		15-2	0
4	0	18.10	13.38	5.56	94		6	0
	1	17.90	13.38	5.80	98		5	0
	2	17.90	13.43	5.68	96		7	0
	4	18.30	14.12	5.48	94		6	0
	6	17.85	15.82	4.72	82		9	0
	8	17.50	16.66	4.34	75		10	0
	10	17.40	17.79	3.69	65		11	0
	12	17.50	18.26	3.35	59		16	0
	14	17.55	18.31	3.22	57		18	5
	16	17.80	18.48	3.28	59		15	5
	18	18.00	18.48	3.46	62		18	10
20	18.00	18.56	3.69	66		16	10	
4a	0	18.35	12.91	5.60	95		10	0
	1	18.25	12.93	5.68	96		9	0
	2	17.95	12.93	5.60	94		8	0
	4	18.20	14.07	5.56	95		8	0
	6	17.75	15.94	4.79	83		9	0
	8	17.25	16.98	3.84	67		14	5

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 7.x	4a	10	17.30	17.59	3.14	55		14	0
		12	17.50	18.09	2.78	49		16	20
		14	17.40	18.21	2.90	51		18	20
	4b	0	18.20	12.13	5.56	93			0
		1	18.15	12.41	5.60	94		13	0
		2	18.00	12.74	5.68	95		8	0
		4	18.05	14.12	5.68	97		10	0
		6	17.50	15.12	4.67	80		10	0
		8	17.10	16.60	3.79	66		13	0
		10	17.20	16.80	3.64	63		8	15
		12	17.20	17.94	2.66	47		18	25
			5	0	18.75	12.33	5.68	96	
1	18.60			12.33	5.56	94		10-2	0
2	18.30			12.56	5.68	96		9-6	0
4	17.80			14.92	5.32	91		14-0	0
6	16.90			16.31	3.69	63		16-0	0
8	16.85			17.20	2.72	47		16-0	0
10	16.85			17.64	1.89	33		20-1	10
12	16.85			18.04	1.83	32		20-2	20
	6			0	18.95	10.52	5.83	97	
		1	18.50	10.62	6.02	100		13-6	0
		2	18.45	11.48	5.93	99		15-5	0
		4	17.20	14.95	3.72	63		18-7	0
		6	16.95	16.31	2.98	51		16-9	10
	7	0	18.65	8.35	6.04	98		14-6	0
		1	19.35	10.35	6.07	102		13-4	0
		2	19.55	10.42	5.90	99		16-4	0
		3	17.85	12.53	4.86	81		16-10	0
17.xi	3	0	19.55	17.51	5.45	99		7-13	0
		2	19.45	17.56	5.59	102		4-11	0
		4	19.40	18.00	5.70	104		5-10	0
		6	19.30	18.59	5.45	100		6-13	0
		9	19.20	19.04	5.09	94		6-9	0

Station: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
54 xi	3a	0	19.50	17.36	5.57	101		5-15	0
		2	19.40	17.36	5.65	102		4-18	0
		4	19.35	17.36	5.57	101		5-13	0
		6	19.45	17.86	5.61	102		7-15	0
		8	19.25	18.43	5.42	99		12-11	0
		10	19.25	18.79	5.34	98		8-12	0
		12	19.20	19.13	5.26	97		6-14	0
		14	19.20	19.28	4.95	91		7-12	0
		16	19.25	19.33	4.84	90		7-12	0
	4	0	20.00	17.31	6.00	110		6-13	0
		2	19.40	17.31	5.94	107		6-17	0
		4	19.45	17.31	5.75	104		6-20	0
		6	19.45	18.20	5.45	99		6-17	0
		8	19.35	18.50	5.20	95		8-17	0
		10	19.20	18.74	4.84	89		7-11	0
		12	19.05	18.94	4.58	84		8-12	0
		14	19.00	19.18	4.24	78		9-13	0
		16	19.00	19.18	3.96	73		9-15	0
	18	19.00	19.33	3.52	65		12-24	0	
	4a	0	19.95	17.17	5.55	101		7-10	0
		2	19.70	17.17	5.65	103		6-14	0
		4	19.50	17.36	5.47	99		7-17	0
		6	19.65	17.90	5.14	94		9-16	0
		8	19.45	18.48	4.46	82		8-14	0
		10	19.20	19.13	3.54	65		9-16	0
		12	19.05	19.13	3.52	65		9-16	0
	4b	0	20.05	16.87	5.50	100		7-17	0
		2	19.55	16.87	5.42	98		7-15	0
		4	19.35	16.97	5.42	97		7-14	0
		6	19.75	17.81	5.11	93		11-11	0
		8	19.45	18.35	4.49	82		12-12	0
		10	19.20	18.84	3.73	69		12-6	0
		13	19.20	18.84	3.70	68		14-10	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954	17.xi	5	0	20.45	16.33	4.93	90		
		2	19.75	16.33	5.55	100	9-15	0	
		4	19.45	16.42	5.42	97	8-17	0	
		6	19.60	17.66	4.36	80	9-18	0	
		8	19.45	18.20	3.72	68	14-13	0	
		10	19.40	18.84	2.93	54	15-8	0	
		12	19.40	18.84	2.91	54	18-9	0	
								21-6	0
		6	0	20.00	15.53	5.37	96	8-25	0
		2	19.75	15.63	5.37	96	7-25	0	
		4	19.80	16.33	5.26	95	8-20	0	
		6	19.75	16.57	4.64	84	11-18	0	
	7	0	20.45	13.80	4.81	85	9-28	0	
	1	20.35	13.84	4.93	87	9-28	0		
	2	18.35	14.34	4.84	83	8-31	0		
	3	17.55	14.99	4.84	82	16-15	0		
	2.xii	3	0	20.45	18.02	5.12	95		
			2	20.50	18.07	5.34	99		0
			4	20.70	18.36	5.29	99		0
			6	20.60	18.65	5.24	98		0
			9	20.55	19.04	4.93	93		0
		3a	0	20.30	17.83	5.14	95		
			2	20.30	17.83	5.44	101		0
			4	20.30	17.83	5.41	100		0
			6	20.85	18.07	5.29	99		0
			8	20.70	18.46	5.06	95		0
			10	20.65	18.99	4.58	86		0
			12	20.70	19.23	4.58	86	9-7	0
			14	20.60	19.28	4.54	86	8-7	0
			16	20.65	19.38	4.54	86	9-7	0
			18	20.65	19.43	4.47	85	10-8	0
								10-6	0
			4	0	20.45	17.68	5.38	100	
2			20.45	17.68	5.47	101	9-5	0	
4	20.40	17.68	5.50	102	7-14	0			
6	20.85	17.95	5.29	99	8-14	0			
					11-6	0			

## Station: SWAN RIVER

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
4	8	20.70	18.46	4.82	90		10-13	0
	10	20.30	18.75	4.54	85		11-9	0
	12	20.30	19.04	4.12	77		11-6	0
	14	20.15	19.19	3.76	70		9-12	0
	16	20.20	19.19	3.44	64		9-10	0
	18	20.15	19.28	3.09	58		11-13	0
	20	20.30	19.28	3.68	69		14-9	0
	4a	0	20.70	17.54	5.66	103		7-10
2		20.60	17.54	5.77	107		6-18	0
4		20.50	17.54	5.77	107		8-12	0
6		20.80	17.97	5.47	102		9-14	0
8		20.55	17.97	4.75	88		11-8	0
10		20.30	18.65	4.36	81		14-7	0
12		19.95	19.09	3.74	70		14-7	0
14		19.75	19.19	3.09	57		14-9	0
4b	0	21.15	16.90	5.24	97		10-13	0
	2	21.00	16.90	5.16	96		9-12	0
	4	20.15	17.19	5.54	101		10-11	0
	6	20.65	17.63	5.29	98		11-10	0
	8	20.00	18.36	4.58	85		13-8	0
	10	19.90	18.80	3.15	59		16-10	0
	13	19.85	19.04	3.09	51		18-11	0
	5	0	21.20	17.05	5.47	102		12-14
2		21.25	17.05	5.72	106		11-9	0
4		20.50	17.10	5.54	102		9-17	0
6		20.45	17.68	5.05	93		16-12	0
8		20.00	18.41	4.47	83		17-9	0
10		20.05	18.85	2.69	50		19-6	0
12		19.75	18.99	2.76	51		21-7	0
6		0	21.15	16.66	5.11	95		16-13
	2	21.10	16.66	5.11	95		16-16	0
	4	21.15	17.05	5.06	94		18-16	0
	6	20.75	17.58	4.54	84		23-6	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954	2.xii	7	0	20.75	14.75	4.75	86			
		1	20.70	14.75	5.03	90	29-14			
		2	20.85	14.80	4.84	87	29-14			
		3	19.45	15.58	4.56	81	28-21			
	14.xii	3	0	22.00	18.07	4.98	95		21-22	
			1	21.85				5-16		
			2	21.70	18.11	5.33	103			
			4	21.70	18.16	5.15	98	6-13		
			6	21.45	18.31	5.04	95	4-14		
			9	21.40	18.97	4.80	92	5-13		
								7-7		
			3a	0	21.85	18.16	5.20	101		
				2	21.70	18.11	5.26	100	7-16	
		4		21.50	18.16	5.20	98	6-16		
		6		21.70	18.36	5.04	96	7-14		
		8		21.35	18.55	5.04	95	8-16		
		10		21.25	19.04	4.76	90	6-16		
		12		21.00	19.23	4.66	88	6-14		
		14		20.95	19.43	4.33	82	7-13		
		16		20.85	19.66	4.13	79	9-7		
4		4	0	22.50	18.09	4.63	90			
			2	21.80	18.16	5.20	99	7-14		
	4		21.65	18.16	5.50	104	8-19			
	6		21.70	18.16	5.86	111	6-14			
	8		21.50	18.11	5.67	107	8-13			
	10		21.10	19.14	4.19	80	7-15			
	12		21.00	19.14	4.28	81	8-11			
	14		20.85	19.23	3.67	69	8-10			
	16		20.85	19.33	3.27	62	13-6			
	19		20.85	19.48	3.10	59	12-7			
							15-8			
4a	4a	0	22.65	17.73	5.20	100				
		2	22.05	17.73	5.20	99	10-13			
		4	21.85	17.82	5.33	101	12-8			
		6	21.50	17.82	5.26	99	11-8			
		8	21.25	18.31	4.74	89	11-13			
					9-13					

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 April	4a	10	21.10	18.60	4.44	84		9-10	0	
		12	20.85	19.14	3.61	68		12-9	0	
		14	20.85	19.14	3.64	69		14-4	0	
	4b	0	23.20	17.43	5.30	102		11-15	0	
		1	22.55							
		2	22.00	17.58	5.33	99		8-18	0	
		4	21.70	17.97	5.04	95		5-18	0	
		6	21.50	17.97	4.97	94		9-8	0	
		8	21.10	18.02	4.97	93		13-19	0	
		10	20.80	18.85	3.82	72		12-13	0	
		12	20.75	19.09	2.78	52		29	0	
		5	0	23.35	17.48	5.11	99		11-15	0
			1	22.95						
			2	22.55	17.48	5.11	98		10-14	0
			3	22.10						
	4		21.90	17.58	5.26	99		8-16	0	
	6		21.30	18.16	4.44	84		9-19	0	
	8		20.90	18.26	4.06	76		9-17	0	
	10		20.85	18.75	3.38	64		14-18	0	
	12		20.85	19.14	2.51	47		18-13	0	
	6		0	23.80	16.55	4.38	85		14-23	0
			1	22.90						
			2	22.65	16.80	4.74	90		12-27	0
		3	21.85							
		4	22.05	17.14	5.91	111		11-20	0	
		5	21.50							
		6	21.35	17.66	4.44	83		15-16	0	
	7	0	23.95	15.48	4.38	84		19-20	0	
		1	22.60	15.97	4.57	86		17-22	0	
		2	22.50	16.50	4.44	84		19-24	0	
		3	22.45	17.19	4.87	93		26-19	0	

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954									
28.vii	10am	26		Depth					
				0	15.55	17.72	5.62	95	5
				1	15.60	17.72	5.72	97	5
				2	15.70	17.77	5.72	97	5
				4	15.75	17.91	5.69	97	5
				6	15.85	18.01	5.58	95	5
				8	15.85	18.11	5.66	97	0
				10	15.75	18.50	5.72	99	5
				12	15.90	18.55	5.58	96	5
	12 n	25		0	15.30	17.23	5.66	95	10
				1	15.30	17.23	5.85	98	10
				2	15.55	17.23	5.72	96	5
				4	15.40	17.47	5.75	97	5
				6	15.55	17.67	5.58	95	10
				7	15.90	18.01	5.54	95	0
				8	16.00	18.01	5.66	97	0
				10	15.85	18.26	5.58	96	0
				12	15.85	18.55	5.54	95	0
	2pm	22		0	15.40	17.13	5.82	98	5
				1	15.40	17.13	5.94	100	5
				2	15.40	17.13	5.76	97	5
				4	15.40	17.28	5.72	96	5
				6	15.45	17.47	5.76	98	5
				8	15.55	17.67	5.72	98	10
				10	15.85	18.16	5.58	96	5
				12	15.85	18.26	5.54	96	5
	4pm	19		0	15.30	15.68	6.45	107	0
				1	15.30	15.83	6.51	108	0
				2	15.35	15.98	6.51	108	0
				4	15.20	16.92	6.20	104	5
				6	15.30	17.02	6.00	101	5
				8	15.30	17.71	5.58	95	5
				10	15.40	18.00	5.54	96	5
				12	15.65	18.10	5.41	93	5
	6pm	16		0	14.95	15.58	6.65	109	0
				1	15.00	15.58	6.45	106	0
				2	15.10	15.58	6.65	109	0
				4	15.15	16.42	6.56	109	0
				6	15.15	16.82	6.16	103	5

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/∞	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 28.vii	6pm	16	Depth							
			8	15.15	17.36	5.79	97		0	
			10	15.55	18.05	5.34	90		0	
	8pm	13	12	15.70	18.30	5.24	90		0	
			0	14.85	15.09	6.60	108		0	
			1	14.95	15.09	6.68	109		0	
			2	14.95	15.09	6.76	110		5	
			4	15.05	15.93	6.45	107		0	
			6	15.20	16.42	6.03	100		0	
			8	15.20	16.92	5.82	98		5	
			10	15.55	17.81	5.56	94		5	
			12	15.70	18.10	5.34	91		20	
	10pm	11	0	14.60	14.84	6.41	103		20	
			1	14.70	14.84	6.54	105		15	
			2	14.70	14.84	6.71	108		15	
			4	15.00	15.48	6.45	106		10	
			6	15.15	16.13	6.16	102		10	
			8	15.40	17.17	5.79	97		0	
			10	15.50	17.76	5.58	96		0	
			12	15.85	18.30	5.24	90		0	
			12mn	12	0	14.45	14.19	6.27	100	
	1	14.50			14.19	6.51	104			
	2	14.50			14.29	6.51	104		10	
	4	14.95			15.14	6.32	103		10	
	6	15.25			15.93	6.00	99		10	
	8	15.25			16.92	5.82	98		0	
	10	15.30			17.56	5.47	93		5	
	12	15.55			17.95	5.34	90		0	
	29.vii	2am			14	0	14.30	13.55	6.32	100
			1	14.30		13.70	6.39	101		20
			2	14.30		13.60	6.45	103		20
			4	14.55		14.04	6.32	101		20
			6	14.85		14.52	6.16	99		15
			8	14.85		15.38	6.09	100		10
			10	15.20		16.33	5.94	99		0
			12	15.45		17.26	5.66	95		0

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %/o	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954 29.vii	4am	16	Depth								
			0	14.30	13.25	6.23	98		25		
			1	14.30	13.25	6.39	100		20		
			2	14.40	13.50	6.48	103		25		
			4	14.60	14.24	6.27	100		15		
			6	14.70	14.79	5.94	96		10		
			8	14.90	15.43	6.06	99		15		
			10	14.90	15.88	5.94	98		5		
			12	15.45	16.42	5.76	96		0		
			6am	20	0	14.30	13.15	6.20	93		30
					1	14.30	13.15	6.32	99		45
					2	14.30	13.15	6.39	101		45
	3	14.50									
	4	15.55			13.89	6.27	102		35		
	6	15.55			15.09	5.88	96		15		
	8	15.70			16.62	5.76	97		10		
	10	15.80			17.51	5.72	97		0		
	12	15.80			17.76	5.58	96		5		
	8am	24			0	14.30	13.15	6.20	98		30
					1	14.35	13.15	6.32	99		
					2	14.95	13.89	6.45	104		25
			3	15.55							
			4	16.30	15.38	6.06	102		15		
			6	16.35	16.82	5.74	98		10		
			8	16.30	18.00	5.69	98		0		
			10	16.30	18.30	5.72	99		0		
			12	16.25	18.59	5.58	97		0		
			10am	26	0	14.20	12.75	5.66	88		40
					1	14.35	12.75	6.06	95		40
					2	14.35	13.40	6.20	98		30
	3	15.70									
	4	15.95			13.30	5.66	92		30		
	6	16.15			16.32	5.79	98		10		
	8	16.15			17.66	5.62	96		5		
	10	16.15			18.50	5.41	93		0		

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954				Depth					
16.viii	11am	22		0	15.30	9.70	6.15	95	
				1	15.00	11.20	5.83	91	
				2	15.00	12.80	5.56	88	
				4	15.05	12.90	5.35	85	
				6	15.05	15.80	5.40	89	
				8	15.20	16.50	5.24	87	
				10	15.20	17.00	5.15	86	
				12	15.25	17.10	5.21	87	
	1pm	23		0	16.20	9.50	6.30	97	
				1	15.05	10.10	6.15	95	
				2	14.95	12.70	5.66	90	
				4	15.20	14.60	5.40	88	
				6	15.45	15.80	5.24	87	
				8	15.45	16.70	5.24	88	
				10	15.45	17.30	5.35	90	
				12	15.45	17.50	5.24	89	
	3pm	22		0	17.45	7.80	6.97	110	
				1	16.35	9.30	7.03	110	
				2	14.95	10.70	6.12	95	
				4	15.35	14.50	5.40	88	
				6	15.50	16.40	5.24	88	
				8	15.60	17.10	5.35	90	
				10	15.55	17.60	5.40	92	
				12	15.35	18.10	5.40	92	
	5pm	20		0	17.25	7.10	7.43	116	
				1	15.15	8.80	7.18	110	
				2	15.00	13.60	5.58	90	
				4	15.15	16.40	5.05	84	
				6	15.30	16.50	5.12	85	
				8	15.30	17.50	5.17	87	
				10	15.30	18.00	5.05	86	
				12	15.30	18.20	5.00	85	
	8pm	18		0	16.10	8.60	7.25	113	
				1	14.95	8.90	6.37	97	
				2	14.95	11.80	6.12	96	
				4	15.20	16.20	5.00	83	
				6	15.20	16.20	5.17	86	

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954			Depth							
16.viii	8pm	18	8	15.15	17.30	5.00	84			
			10	15.25	17.80	4.93	84			
			12	15.20	17.90	4.87	83			
	10pm	17	0	16.00	8.00	7.45	114			
			1	15.30	10.70	6.03	94			
			2	15.00	13.40	5.28	85			
			4	15.10	16.00	4.68	77			
			6	15.35	16.30	5.05	84			
			8	15.40	17.60	4.47	76			
	12mn	19	10	15.25	17.70	5.17	87			
			12	15.25	18.10	5.12	87			
			0	15.30	7.70	7.45	113			
			1	15.20	8.70	7.36	113			
			2	15.30	9.50	6.94	107			
			4	15.05	11.60	5.87	92			
	17.viii	1am	20	6	15.10	15.10	4.93	81		
				8	15.30	17.00	4.93	83		
				10	15.35	17.10	5.05	85		
12				15.30	17.60	5.00	85			
0					7.70					
1					8.60					
2am		20	2		9.10					
			4		12.80					
			6		15.10					
			8		15.80					
			10		16.60					
			12		17.80					
4am		19	0	15.55	8.00	7.43	114			
			1	15.55	9.30	7.26	112			
			2	15.40	10.90	6.00	94			
			4	15.40	13.40	5.12	83			
			6	15.25	15.40	5.24	86			
			8	15.30	16.40	5.17	74			
4am	19	10	15.35	17.00	4.22	71				
		12	15.20	17.60	5.05	85				
		0	15.00	7.50	7.38	111				
			1	15.60	8.40	7.01	107			

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954 17.viii	4am	19	Depth								
			2	15.20	10.50	6.56	102				
			4	15.40	13.10	6.05	97				
			6	15.30	16.30	5.05	84				
			8	15.30	17.40	5.12	86				
			10	15.30	17.50	5.05	85				
			12	15.25	18.10	5.00	85				
			6am	18	0	15.00	7.60	7.18	108		
					1	15.25	7.90	7.11	108		
					2	15.30	10.90	6.06	95		
					4	15.25	14.40	5.17	84		
					6	15.25	16.00	5.12	85		
	8	15.25			17.40	5.05	85				
	10	15.30			17.70	5.05	85				
	12	15.25			18.10	5.00	85				
	7am	19			0		6.40				
					1		6.50				
					2		11.10				
					4		13.10				
			6		15.20						
			8		16.10						
			10		17.50						
			12		17.80						
			8am	20	0	15.00	6.20	7.74	114		
					1	15.10	6.50	7.66	114		
					2	15.45	7.50	7.38	112		
					4	15.30	14.70	5.05	83		
	6	15.15			16.70	4.82	81				
	8	15.35			17.30	4.30	73				
	10	15.40			17.60	4.47	76				
	12	15.30			18.10	4.22	72				
	9am	21			0		6.50				
					1		6.70				
					2		7.10				
					4		11.20				
			6		11.60						
			8		14.80						
			10		16.90						
			12		17.60						

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub>
1954			Depth						
17.viii	10am	21	0	15.50	7.30	7.02	106		
			1	15.35	8.40	6.99	106		
			2	15.35	7.90	6.90	105		
			4	15.50	11.00	5.95	94		
			6	15.25	13.70	5.53	89		
			8	15.35	16.30	5.17	86		
			10	15.40	16.80	5.12	86		
			12	15.25	17.70	4.87	82		
	11am	22	0		6.90				
			1		8.90				
			2		9.20				
			4		13.30				
			6		15.10				
			8		15.60				
			10		16.60				
			12		17.30				
	12 n	23	0	16.25	9.70	7.60	119		
			1	16.10	9.70	7.43	116		
			2	16.15	10.90	7.18	114		
			4	15.85	11.90	6.32	101		
			6	15.90	14.20	5.66	93		
			8	15.65	15.00	5.53	91		
			10	15.80	15.50	5.35	89		
			12	16.05	15.70	5.17	86		
	1pm	24	0		9.70				
			1		9.80				
			2		11.80				
			4		13.50				
			6		14.20				
			8		15.10				
			10		15.40				
			12		15.70				
	2pm	24	0	16.40	9.60	7.95	125		
			1	16.25	10.00	7.95	125		
			2	16.20	11.30	7.33	117		
			4	16.05	12.60	6.88	111		
			6	16.30	14.70	5.94	99		
			8	16.35	15.30	5.66	95		
			10	16.35	15.70	5.66	96		
			12	16.35	15.70	5.72	96		

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %/o	PO <sub>4</sub> -P	NO <sub>3</sub> -N			
1954 7.viii	3pm	23	Depth									
			0	16.65	9.60	7.34	114					
			1	15.95	10.40	7.70	122					
			2	16.10	12.20	6.94	112					
			4	16.15	12.60	6.65	108					
			6	16.25	14.90	5.82	97					
			8	16.25	15.20	5.72	96					
			10	16.15	15.70	5.58	94					
			12	15.75	15.80	5.53	93					
			4pm	22	0			10.10				
					1			10.20				
					2			11.50				
	4					14.40						
	6					15.20						
	8					15.50						
	10					15.90						
	12					16.20						

Location: SWAN RIVER -  $\frac{1}{2}$  MILE BELOW STATION NO. 3

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub>	
1954 1.ix	10am	12	Depth							
			0	14.55	3.90	6.06	87			
			1	14.75	4.80	6.00	87			
			2	15.10	5.50	5.47	80			
			3	15.25	9.70	5.17	80			
	11am	12	4	15.25	9.90	5.17	80			
			5	15.55	12.70	4.92	79			
			0		3.80					
			1		4.10					
			2		6.40					
	12 n	11	3		7.50					
			4		9.10					
			5		10.30					
			0	15.55	4.20	6.24	90			
			1	15.00	5.00	6.03	88			
	1pm	11	2	15.15	5.60	6.06	89			
			3	15.30	6.60	5.77	86			
			4	15.35	8.50	5.34	82			
			5	15.35	13.00	4.75	76			
			0		4.10					
	2pm	11	1		4.00					
			2		5.50					
			3		7.90					
			4		8.20					
			5		10.60					
	3pm	10	0	15.90	4.20	6.83	100			
			1	15.00	5.60	6.32	91			
			2	15.20	6.80	5.72	85			
			3	15.20	7.30	5.76	86			
			4	15.35	8.10	5.62	85			
				5	15.80	12.10	4.32	69		
				0		3.80				
				1		4.50				
				2		7.30				
				3		7.90				
			4		11.30					
			5		13.20					

Location: SWAN RIVER -  $\frac{1}{2}$  MILE BELOW STATION NO. 3

Date	Time	Tide (ft.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 1.ix	4pm	10	Depth						
			0	15.85	4.00	7.18	105		
			1	14.85	5.10	6.68	97		
			2	15.30	6.80	5.85	88		
			3	15.45	9.70	5.40	84		
	6pm	9	4	15.85	12.20	4.84	78		
			5	15.95	15.40	4.22	70		
			0	15.70	3.70	6.94	101		
			1	14.85	4.90	6.45	94		
			2	15.35	9.70	5.17	80		
	7pm	8	3	15.40	9.90	5.24	81		
			4	15.80	11.40	5.05	80		
			5	16.10	13.70	4.58	75		
			0		3.50				
			1		3.70				
	8pm	10	2		5.50				
			3		7.20				
			4		8.00				
			5		13.80				
			0	15.35	3.50	7.07	102		
	9pm	11	1	15.75	3.60	7.03	102		
			2	15.70	3.50	6.94	101		
			3	14.95	5.50	6.77	99		
			4	15.15	6.30	6.20	92		
			5	15.55	8.60	5.62	86		
	10pm	12	0		4.00				
			1		4.10				
			2		4.30				
			3		4.70				
			4		6.20				
			5		12.20				
			0	15.10	4.80	6.49	94		
			1	15.30	4.80	6.60	96		
			2	15.30	5.50	6.45	95		
			3	15.35	5.70	6.20	91		
			4	15.45	9.10	5.28	82		
			5	15.70	9.50	4.92	76		

Location: SWAN RIVER -  $\frac{1}{2}$  MILE BELOW STATION NO. 3

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954	1.1x	11pm	13	Depth							
				0		4.90					
				1		4.90					
				2		6.10					
				3		7.30					
	12mm	14	5		10.70						
			0	14.75	5.40	6.45	94				
			1	15.25	6.10	6.20	92				
			2	15.45	6.90	5.95	89				
			3	15.55	9.80	5.59	93				
			4	15.55	10.50	5.54	87				
			5	15.55	11.20	5.41	85				
			2.1x	1am	15	0		3.60			
						1		4.20			
						2		5.60			
	3					7.30					
	4					8.30					
	2am	15	5		9.20						
			0	14.60	3.50	6.65	94				
			1	15.30	4.40	6.45	94				
			2	15.30	6.70	6.06	90				
			3	15.55	7.80	6.00	90				
	3am	15	4	15.55	8.40	5.94	92				
			5	15.55	11.00	5.66	89				
			0		3.40						
1				3.40							
2				5.30							
4am	14	3		6.70							
		4		10.30							
		5		12.30							
		0	14.70	3.20	6.45	92					
		1	15.35	4.40	6.26	91					
2	15.35	7.30	5.82	88							
3	15.50	9.10	4.78	74							
4	15.60	12.20	5.11	82							
5	15.65	13.00	5.14	83							

Location: SWAN RIVER -  $\frac{1}{2}$  MILE BELOW STATION NO. 3

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954 2.1x	6am	13	Depth						
			0	14.45	3.10	6.55	92		
			1	15.25	3.40	6.49	93		
			2	15.45	7.50	6.03	91		
			3	15.45	7.70	5.63	86		
	7am	12	4	15.55	11.00	5.11	80		
			5	15.70	13.45	4.53	74		
			0		2.90				
			1		2.80				
			2		6.60				
	8am	11	3		6.50				
			4		9.00				
			5		11.90				
			0	14.45	3.00	6.60	93		
			1	14.75	3.50	6.65	95		
	9am	10	2	15.50	7.40	5.79	88		
			3	15.50	8.60	5.59	86		
			4	15.55	9.50	5.66	88		
			5	15.55	11.40	5.41	85		
			0		3.80				
		1		4.40					
		2		5.20					
		3		6.60					
		4		8.90					

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954 21.ix	4pm	3	Depth								
			0	18.50	13.10	4.22	72	8			
			1	18.50	13.10	4.41	75	12			
			2	16.70	13.25	4.35	72	13			
			3	16.05	14.79	3.38	56	18			
			4	15.90	15.53	2.63	44	27			
	6pm	1	5	15.85	16.42	1.97	33	30			
			6	15.85	16.36	2.02	34	21			
			0	19.55	12.10	5.17	88	7			
			1	19.40	12.10	5.29	90	11			
			2	17.90	13.25	4.82	81	16			
			3	16.25	13.89	4.03	67	20			
	8pm	0	4	16.05	15.48	2.80	47	26			
			5	15.95	16.13	1.92	32	31			
			6	15.95	17.10	1.05	18	39			
			0	19.45	10.99	5.15	87	10			
			1	19.20	11.47	5.31	90	8			
			2	18.15	13.13	4.47	76	9			
	10pm	2	3	17.15	13.61	3.97	66	12			
			4	16.30	16.64	1.34	23	34			
			5	16.15	16.96	1.00	17	35			
			6	16.10	17.18	0.82	14	45			
			0	19.05	11.19	5.17	87	9			
			1	19.35	11.34	5.00	85	8			
	12pm	3	2	18.00	12.73	4.35	73	9			
			3	16.70	13.87	3.73	62	13			
			4	16.40	16.74	1.22	21	36			
			5	16.00	17.32	0.76	13	40			
			6	16.00	17.35	0.88	15	43			
			0	19.00	9.54	5.59	92	5			
				1	18.95	10.12	5.59	93	5		
				2	17.65	11.74	4.75	79	5		
				3	16.55	13.48	3.73	61	19		
				4	16.10	14.02	3.50	58	22		
				5	16.00	15.44	2.50	45	25		
				6	16.00	16.52	1.63	28	34		

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 22.ix	2am	5	Depth							
			0	18.90	9.37	5.35	88	7		
			1	18.95	9.69	5.72	95	3		
			2	17.50	11.49	4.87	79	6		
			3	16.35	14.07	3.09	51	16		
			4	16.15	15.50	2.30	39	25		
	4am	7	5	16.00	17.03	1.20	20	36		
			6	15.95	17.57	0.93	16	40		
			0	18.70	9.34	5.46	89	6		
			1	18.70	9.67	5.35	88	4		
			2	17.10	14.96	2.69	46	15		
			3	16.15	16.88	1.39	24	27		
	6am	9	4	16.00	17.21	1.10	19	35		
			5	15.95	17.32	1.16	20	38		
			6	15.95	17.52	1.10	19	35		
			0	18.55	9.34	5.70	93	6		
			1	18.65	9.74	5.63	93	5		
			2	17.05	15.43	2.36	40	14		
	8am	11	3	16.40	16.33	1.75	30	22		
			4	16.05	16.13	1.89	32	21		
			5	15.95	17.39	1.06	18	41		
			6	15.90	17.54	1.06	18	40		
			0	18.55	9.24	5.53	90	7		
			1	18.65	9.32	5.53	90	9		
	10am	12	2	17.25	10.29	3.26	52	18		
			3	16.40	13.99	2.69	45	22		
			4	16.10	14.74	1.05	17	39		
			5	15.95	17.10	1.06	18	41		
			6	15.85	17.41	1.10	19	41		
			0	18.90	9.39	5.81	95	4		
				1	19.15	10.19	5.59	93	6	
				2	16.95	12.03	4.47	73	9	
				3	16.30	13.60	3.80	63	12	
				4	16.00	15.53	2.42	41	23	
				5	15.95	15.19	2.50	42	23	
				6	15.95	16.13	1.86	31	29	

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °c.	Water Temp. °c.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1954			Depth						
22.1x	12 n	11	0	19.75	9.82	5.96	100	3	
			1	19.35	10.17	5.96	100	5	
			2	17.25	12.13	4.82	79	9	
			3	16.60	12.30	4.44	72	9	
			4	16.05	13.87	2.72	45	17	
			5	16.00	15.09	2.56	43	24	
			6	15.95	16.13	1.81	31	29	
	2pm	9	0	20.15	9.19	6.20	104	3	
			1	19.20	11.38	5.59	94	7	
			2	18.35	10.17	6.00	98	6	
			3	17.35	10.73	5.59	91	5	
			4	16.55	14.22	3.50	58	16	
			5	16.00	14.69	3.21	53	20	
			6	16.10	15.34	2.42	40	24	
	4pm	7	0	20.30	9.14	6.33	106	5	
			1	20.15	9.14	6.51	109	4	
			2	18.85	10.64	6.20	103	8	
			3	17.20	11.75	5.16	84	10	
			4	16.20	13.05	4.41	72	16	
			5	16.10	13.75	4.02	66	14	
			6	16.10	14.97	2.84	47	23	
	6pm	5	0	20.15	9.12	6.45	108	4	
			1	20.00	9.57	6.51	109	3	
			2	19.40	10.70	6.26	105	5	
			3	16.65	14.69	3.15	53	13	
			4	16.05	16.36	1.55	26	46	
			5	16.05	17.07	0.88	15	43	
			6	16.05	17.36	0.91	16	45	
	8pm	3	0	20.00	9.29	6.45	108	5	
			1	20.00	9.24	6.56	110	4	
			2	19.60	9.94	6.56	110	3	
			3	16.85	10.68	5.59	90	4	
			4	16.00	13.15	4.09	67	11	
			5	16.10	14.24	3.21	53	15	
			6	16.00	15.86	1.97	33	29	

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954 22.ix	10pm	3	Depth								
			0	19.90	9.07	6.20	102	2			
			1	19.75	8.96	6.20	103	5			
			2	19.30	9.89	4.69	78	3			
			3	16.40	11.55	6.24	100	4			
			4	16.40	12.95	4.47	73	5			
	12mn	5	5	16.00	14.22	3.33	55	15			
			6	16.00	15.38	2.63	44	13			
			0	19.15	10.19	6.20	103	5			
			1	19.10	10.19	6.26	104	4			
			2	17.45	11.35	5.24	86	5			
			3	17.10	12.35	4.32	71	5			
	23.ix	2am	6	4	16.30	15.14	2.24	38	16		
				5	15.85	14.94	2.77	46	13		
				6	16.00	13.84	3.50	57	13		
				0	18.90	9.12	5.47	90	14		
				1	18.90	9.12	5.59	92	12		
				2	19.25	9.74	5.47	91	11		
	4am	7	3	18.65	10.90	5.05	84	7			
			4	15.55	14.34	2.63	43	7			
			5	15.95	14.69	2.40	40	16			
			6	16.10	13.75	3.26	53	17			
			0	18.40	9.34	5.41	87	19			
			1	18.70	9.59	5.67	93	6			
6am	8	2	19.05	9.94	5.76	96	5				
		3	19.55	9.94	5.82	98	7				
		4	16.40	12.85	4.35	71	11				
		5	16.10	12.50	3.80	61	10				
		6	16.10	13.80	2.90	48	17				
		0	19.05	10.07	5.67	94	6				
8am	9	1	18.90	10.07	5.70	94	4				
		2	19.10	10.07	5.82	97	7				
		3	16.85	10.85	5.11	82	3				
		4	16.25	12.45	4.02	65	8				
		5	16.10	13.70	3.50	57	9				
		6	16.05	13.25	3.88	63	12				
			0	18.70	9.69	5.64	93	4			
			1	18.85	9.77	5.82	96	5			
			2	19.20	9.84	5.32	88	5			

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1954 23.ix	8am	9	Depth							
			3	17.15	10.98	5.38	87	5		
			4	16.25	12.80	4.30	70	6		
			5	16.00	13.05	3.68	60	9		
			6	16.00	14.94	2.72	45	17		
			10am	10	0	19.00	9.69	5.77	95	3
				1	18.90	9.64	5.94	98	2	
				2	18.50	12.80	3.91	66	7	
				3	16.25	14.14	2.69	45	10	
				4	15.95	17.17	1.05	18	37	
				5	15.90	17.21	1.20	20	35	
				6	15.90	17.62	1.63	28	29	
		12 n	9	0	19.00	9.62	5.94	98	4	
				1	19.00	9.62	6.00	99	6	
				2	18.95	11.20	5.00	84	6	
				3	16.15	15.43	2.39	40	18	
				4	15.95	16.47	1.33	22	22	
				5	15.95	16.70	1.55	26	29	
				6	15.95	17.26	1.25	21	36	
		2pm	6	0	19.35	9.49	6.26	104	4	
				1	19.35	9.54	6.30	104	6	
				2	19.20	9.79	6.26	104	5	
				3	16.10	14.19	3.26	54	12	
				4	15.90	15.88	2.26	38	24	
				5	15.90	17.12	1.39	24	34	
				6	15.95	17.21	1.34	23	36	
		4pm	4	0	19.40	9.47	6.20	103	5	
				1	19.40	9.37	6.26	104	5	
				2	19.35	9.42	6.32	105	4	
				3	16.80	11.20	5.26	85	6	
				4	16.15	14.92	2.53	42	17	
				5	16.00	14.82	2.72	45	18	
				6	15.90	16.23	1.78	30	30	

Location: SWAN RIVER NO. 5 - APPECROSS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N			
1954 19.x	10am	7	Depth									
			0	20.15	13.18	5.20	91	0	10			
			1	20.00								
			2	18.85	13.83	4.97	86	0	0			
			3	18.80								
			4	17.35	15.12	4.26	72	0	0			
			6	16.50	16.73	2.92	48	5	0			
			8	18.05	17.78	2.12	38	11	0			
			10	18.20	18.18	2.07	37	9	10			
			12 n	5	0	21.15	13.23	5.33	95	0	0	
	2	20.50			13.98	5.20	87	0	0			
	3	18.75										
	4	18.45			15.46	4.06	71	0	0			
	6	18.20			16.95	3.21	57	4	0			
	8	18.20			17.76	2.32	41	4	25			
	10	18.00			18.26	2.15	38	12	35			
	2pm	3			0	21.55	13.01	5.40	96	0	0	
					2	21.15	13.68	5.35	96	0	0	
					3	18.80						
			4	18.65	15.22	4.33	76	3	0			
			6	18.05	16.93	3.05	54	4	0			
			8	18.10	17.86	2.30	41	12	0			
			10	18.15	18.13	2.15	38	12	25			
			4pm	1	0	21.80	13.18	5.46	98	0	0	
					1	21.60						
					2	20.75	13.93	5.42	96	0	0	
	3	19.45										
	4	19.35			15.12	4.83	85	0	0			
	5	18.20										
	6	18.05			16.90	3.38	59	9	0			
	8	18.05			17.67	2.40	43	16	50			
	10	18.10			17.98	2.24	40	21	65			
	6pm	0			0	21.80	13.28	5.50	99	7	40	
			1	21.35								
			2	20.15	14.45	5.01	89	5	35			
			3	19.20								
			4	18.45	17.73	2.21	40	16	25			
			6	18.10	17.78	2.30	41	16	15			
			8	18.10	17.59	2.30	41	20	0			
			10	18.10	17.83	2.24	40	19	15			

Location: SWAN RIVER NO. 5 - APPLECROSS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954			Depth								
19.x	8pm	1	0	21.70	13.23	5.38	97	5	15		
			1	21.15							
			2	20.25	13.73	5.35	94	7	5		
			3	18.95							
			4	18.45	15.27	4.36	76	6	5		
			6	18.15	17.19	2.78	49	12	5		
			8	18.05	17.49	2.18	39	15	20		
			10	18.15	17.98	1.81	32	19	20		
			10pm	3	0	21.50	13.38	5.40	97	5	0
					1	20.85					
	2	20.30			14.06	5.30	94	5	0		
	3	19.00									
	4	18.50			15.71	4.19	73	6	0		
	6	18.20			17.19	2.84	50	13	0		
	8	18.15			17.69	2.10	37	14	5		
	10	18.15			17.83	2.01	36	15	20		
	12mn	5			0	21.85	13.26	5.26	101	1	0
					1	21.35					
			2	19.90	13.78	5.36	94	0	0		
			3	17.95							
4			18.05	15.61	4.16	72	0	0			
6			17.90	17.24	2.72	48	8	0			
8			17.90	17.78	2.21	39	12	15			
10			17.90	18.23	1.87	33	15	25			
20.x			2am	7	0	21.20	13.33	5.48	98	2	0
					1	21.55					
	2	20.70			13.53	5.58	99	0	0		
	3	19.20									
	4	18.45			15.12	4.72	82	2	0		
	6	18.10			17.14	3.05	54	7	0		
	8	18.05			17.73	2.30	41	11	10		
	4am	9	10	18.05	18.13	1.95	35	13	15		
			0	21.20	13.28	5.50	98	1	0		
			1	21.30							
			2	20.15	13.61	5.35	94	2	0		
			3	19.00							

Location: SWAN RIVER NO. 5 - APPECROSS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N		
1954 20.x	4am	9	Depth								
			4	18.65	15.17	4.66	81	4	0		
			6	18.10	16.88	3.39	60	6	5		
			8	18.10	18.06	2.26	40	13	10		
	6am	11	10	18.05	18.10	1.93	34	14	15		
			0	21.40	13.30	5.58	100	1	0		
			1	21.40							
			2	20.00	14.29	5.30	94	0	0		
	8am	12	3	18.90							
			4	18.65	16.62	3.58	63	4	0		
			6	18.05	17.00	2.97	52	7	0		
			8	18.05	17.81	2.24	40	14	0		
	10am	11	10	18.10	18.10	1.84	33	15	5		
			0	21.20	13.25	5.33	95	2	0		
			1	20.70							
			2	19.90	13.43	5.04	88	4	0		
	10am	11	3	19.00							
			4	18.40	17.26	4.24	75	9	0		
			6	18.10	17.51	2.72	48	9	0		
			8	18.10	17.95	2.30	41	11	5		
			10	18.10	18.15	2.04	36	16	15		
			0	21.55	13.35	5.38	97	4	0		
			1	21.45							
			2	19.95	14.64	5.20	92	5	0		
	10am	11	3	18.75							
			4	18.50	15.68	2.78	49	12	0		
			6	18.10	17.36	2.40	43	15	0		
			8	18.25	17.81	1.96	35	16	5		
	10am	11	10	18.25	18.10	1.91	34	18	15		

Location: PEEL-HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	pH	PO <sub>4</sub> -P	
1954 25.111	1	S	21.30	20.26	4.98	96	8.21	3-3	
		D	21.20	20.26	5.03	97	8.22	3-4	
	1a	S	21.20	20.26	4.95	95	8.22	8-4	
		D	21.20	20.26	4.73	91	8.22	9-0	
	2	S	20.80	21.76	4.80	93	8.24	9-4	
		D	20.90	22.49	4.90	96	8.22	9-6	
	4	S	21.00	22.02	4.57	90	8.14	10-7	
	5	S	22.60	16.00	4.57	86	8.12	12-6	
	7	S	20.90	22.97	4.62	91	8.16	7-8	
		D	20.90	22.97	4.62	91	8.18	7-9	
	7a	S	21.00	22.73	4.90	97	8.19	7-11	
	8	S	23.70	12.66	5.52	102	8.13	8-5	
		D	26.40	20.06	3.26	68	7.95	12-6	
	9	S	21.40	0.49	5.18	81		11-0	
	29.1v	1	S	17.20	20.55	5.49	98	8.35	2-4
			D	16.10	21.62	5.79	104		1-9
		1a	S	15.50	21.81	5.40	96	8.31	2-3
			D	15.40	21.51	5.44	97	8.30	1-8
2		S	16.40	22.01	5.73	104	8.25	3-1	
		D	16.20	22.01	5.40	98	8.24	3-4	
3		S	16.20	21.57	5.88	106	8.26	1-5	
3a		S	15.40	23.57	4.68	85	8.11	3-19	
		D	15.00	23.57	4.87	88	8.10	2-20	
4		S	15.60	21.96	5.59	100	8.28	0-4	
5		S	21.30	15.70	4.45	80	7.88	6-14	
		D	15.90	22.59	5.79	105	8.28	0-6	
7		S	15.90	22.59	5.79	105	8.28	0-6	
		D	15.40	22.68	5.44	98	8.28	2-3	
8		S	23.00	10.29	7.20	128	8.09	4-8	
		D	22.00	20.40	2.29	45	7.83	12-14	
9		S	17.20	0.31	5.79	84		7-1	

Station: PEEL-HARVEY INLET

Station	Depth	Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	pH	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1	S	15.10	16.08	5.66	94	7.98	6-6	4
	D	16.20	18.99	5.42	94	8.09	7-3	0
1a	S	15.00	15.93	5.75	95	8.04	5-0	7
	D	15.00	16.18	5.66	94	8.04	10-0	2
2	S	14.90	17.12	5.82	97	8.02	9-1	0
	D	15.20	17.56	5.54	93	8.02	8-3	5
3a	S	14.90	0.72	4.64	64		22-13	52
	D	14.90	0.72	4.88	68		15-14	71
4	S	14.70	16.92	6.14	102	8.03	8-1	3
5	S	14.70	2.42	6.00	84		25-9	89
7	S	14.80	17.02	5.88	98	8.00	7-1	4
	D	15.10	18.54	5.48	93	7.87	14-0	9
7a	S	14.80	18.64	5.57	94	7.87	7-7	13
8	S	14.40	1.11	6.37	88		13-14	130
	D	17.80	17.26	1.30	23		16-10	5
9	S	13.00	6.87	6.87	92		9-7	86