OCEANOGRAPHICAL STATION LIST

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

Volume 8

Hydrological Investigations in South-western Australia, 1944-50

Compiled by R. S. Spencer

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, AUSTRALIA
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OCEANOGRAPHICAL STATION LIST

HYDROLOGICAL INVESTIGATIONS IN SOUTH-WESTERN AUSTRALIA 1944-50

Compiled by R. S. SPENCER

I. INTRODUCTION

In the publication of hydrological data obtained from onshore areas and estuarine systems in eastern Australia, separate volumes have been prepared for oceanic, estuarine, 24-hour survey, and bottom deposit investigations. This volume, however, contains all data from the south-western Australian area, divided into the following sections:

Section A — Onshore investigations,
Section B — Estuarine investigations,
Section C — 24-hour surveys,
Section D — Analysis of bottom deposits.

Apart from the fact that these four sections together form a volume of convenient size, the area possesses features which are not found in eastern Australia. From Cape Naturaliste to Sharks Bay the coast is characterized by shallow onshore waters extending in places up to 40 miles from land. For this reason a traverse line replaced the series of single 50-metre stations which had become standard procedure in the study of onshore waters in eastern Australia. In conjunction with offshore traverses carried out by F.R.V. *Warreen*, the results of which have been published in Oceanographical Station List, Volume 3, the onshore investigations were designed to give information on the circulation and productivity of the south-western Australian area.

The estuarine systems of south-western Australia possess definite atidal properties, and the investigations carried out on them afforded an opportunity to contrast their hydrological features with those of the tidal-dominated systems on the eastern seaboard.

II. METHODS

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

III. UNITS

The units used are the same as those given by Rochford (1951).

IV. Location of Stations

Figure 1 gives the geographical location of the areas investigated; details of individual sampling stations will be given in the introduction to the appropriate section.

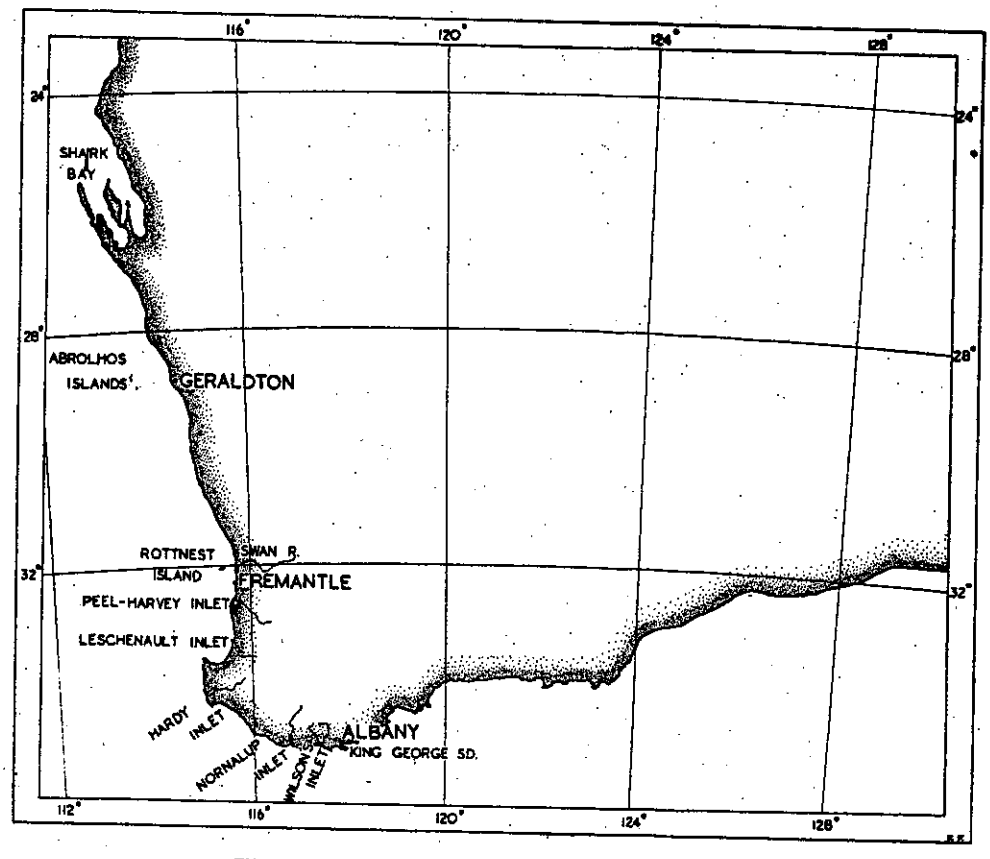

Fig. 1. -Location of the areas investigated.

V. Personnel

The chemical analyses were carried out in the Division's hydrological laboratory in Perth by Mr. R. Spencer and Mr. A. Middleton, who were also responsible for the field collections. The latter could not have been successful without the generous assistance provided by the Department of Fisheries and Game, Western Australia.

VI. References

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

SECTION A

ONSHORE HYDROLOGICAL INVESTIGATIONS IN SOUTH-WESTERN AUSTRALIA

ALBANY, FREMANTLE-ROTTNEST ISLAND TRAVERSE, GERALDTON-ABROLHOS ISLANDS TRAVERSE, 1944-50

(a) *Location of Stations*

(i) *Albany.*—A single 50-metre station was worked in Lat. 35°05'S., Long. 118°03'E.

(ii) *Fremantle-Rottnest Island Traverse.*—Table 1 gives a list of stations which worked in a line from Fremantle Mole to the north side of Rottnest Island.

TABLE 1

Station No.	Distance from Fremantle Mole (miles)
1	2
2	4
3	6
4	8
5	10
6	12

(iii) *Geraldton-Abrolhos Islands Traverse.*—Table 2 gives a list of stations which were worked in a line from Geraldton west to Hummock Island at the eastern end of Zeewyck Channel.

TABLE 2

Station No.	Distance West of Geraldton (miles)
1	5
2	10
3	15
4	20
5	25
6	30

Station: ALBANY

Latitude: 35°05' S. Longitude: 118°03' E.

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
18. iii	0	19.12	19.89	25.72	5.14	96		0	0
	10	19.08	.87	.70	.06	94		0	0
	20	18.92	.94	.84	.20	96		0	0
	30	18.70	20.00	.98	.03	93		2	0
	40	18.72	19.91	.85	4.92	90		0	0
	50	18.75	.90	.82	5.08	93		1	2
17. viii	0	18.29	19.78	25.78	5.17	94		0-3	0
	10	18.27	.77	.77	4.73	86		30-5	0
	20	18.18	.74	.75	5.23	95		0-5	0
	30	18.47	.74	.75	.21	95		0-2	0
	40	18.13	.76	.79	.23	95		25-4	0
	50	17.78	.77	.89	.33	96		0-6	0
1946									
27. viii	0	16.10	19.64	26.10	5.73	99		1	12
	10	15.95	.64	.14	.73	100		4	7
	20	16.00	.65	.15	.65	98		7	10
	30	16.00	.64	.13	.68	99		2	7
	40	15.80	.60	.12	.62	97		2	5
	50	14.95	.54	.23	.76	99		2	7
1. x	0	16.20	19.59	26.02	5.58	98		2	5
	10	16.10	.59	.04	.55	97		3	3
	20	16.10	.57	.01	.63	99		5-0	5
	30	16.10	.59	.04	.55	97		6	5
	40	16.10	.57	.01	.58	98		5	3
	50	16.10	.59	.04	.52	97		5-0	5
1947									
23. iv	0	20.35	19.84	25.32	5.32	100		0	8
	10	20.10	.84	.38	.35	101		1	5
	20	20.10	.86	.41	.32	100		0-8	2
	30	20.00	.86	.44	.32	100		0	8
	40	19.70	.86	.52	.35	100		0	8
	50	19.30	.87	.63	.35	100		0-3	8

Station: ALBANY

Latitude: 35° 05' S. Longitude: 118° 03' E.

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
24. vi	0	18.00	19.66	25.68	5.00	98		1	2
	10	18.00	.61	.61	.31	96		1	2
	20	18.00	.62	.62	.15	93		1	0
	30	17.20	.62	.81	.12	91		1	2
	40	17.00	.62	.86	.24	93		0	2
	50	17.10	.63	.86	.52	98		0	0
8. ix	0	17.40	19.69	25.87	5.47	98		0	3
	10	17.30	.69	.89	.52	99		0	0
	20	17.30	.69	.89	.62	100		0	3
	30	17.20	.68	.90	.40	96		0	0
	40	17.10	.69	.94	.52	98		0	3
	50	16.90	.68	.97	.65	100		0	0
1948									
23. ii	0	20.90	19.77	25.08	5.46	104		9	6
	10	20.80	.79	.14	.30	101		13	9
	20	21.00	.79	.08	.54	106		9	3
	30	20.90	.82	.15	.36	102		9	0
	40	20.80	.79	.14	.40	102		12	3
	50	20.70	.80	.18	.30	100		10	11
7. v	0	20.60	19.72	25.10	5.11	97		6	6
	10	20.50	.75	.16	.11	97		2	6
	20	20.40	.73	.16	.08	96		3	6
	30	20.60	.72	.10	.08	96		7	6
	40	20.60	.74	.12	.08	96		5	6
	50	20.50	.75	.16	.20	98		1	8
15. vii	0	18.60	19.69	25.58	5.41	99		0	3
	10	18.50	.69	.60	.41	99		2	3
	20	18.60	.69	.58	.39	98		0	3
	30	18.40	.69	.63	.44	99		3	0
	40	18.10	.68	.68	.41	98		0	0
	50	18.00	.68	.71	.41	97		4	6

Station: ALBANY

Latitude: 35°05' S. Longitude: 118°03' E.

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
1. xi	0	17.40	19.70	25.88	5.93	106		0	9
	10	17.40	.70	.88	.95	107		1	12
	20	17.30	.72	.94	.90	106		2	0
	30	17.20	.72	.96	.95	106		0	0
	40	17.10	.70	.96	.88	105		0	9
	50	16.80	.72	26.06	.93	105		0	15
1949									
3. v	0	21.25	19.70	24.89	5.22	100		6	0
	10	21.10	.71	.95	.18	99		6	0
	20	21.00	.71	.98	.30	101		6	0
	30	20.20	.68	25.14	.55	104		6	0
	40	20.40	.65	.05	4.86	92		5	0
	50	20.50	.64	.01	5.22	99		4	0
24. viii	0	17.85	19.54	25.56	5.82	105		0	
	10	17.85	.53	.54	.74	104		6	
	20	17.80	.54	.57	.75	104		7	
	30	17.80	.54	.57	.80	105		23	
	40	17.70	.54	.59	.74	104		5	
	50	17.55	.54	.63	.80	104		0	
1950									
27. iv	0	20.50	19.84	25.28	5.26	100		5	0
	10	20.50	.84	.28	.23	99		5-7	0
	20	20.50	.86	.31	.20	98		14	0
	30	20.50	.86	.31	.20	98		8-4	0
	40	20.10	.89	.46	.16	97		22	0
	50	19.90	.99	.65	.07	95		10-0	0
2. xi	0	17.70	19.70	25.81	5.50	100	8.31	6	0
	10	17.70	.69	.80	.52	100	.33	5	0
	20	17.70	.70	.81	.74	104	.33	7	0
	30	17.70	.72	.84	.44	99	.35	7	11
	40	17.70	.69	.80	.54	100	.34	7	11
	50	17.70	.69	.80	.57	101	.35	8	0

VESSEL 72 CRUISE 00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ t	O_2	O_2 %	pH	PO_4-P	NO_3-N
17-9-46									
1946									
17.ix SIN.								IP	
Stn. 7	0	16.00	18.93	25.14	5.60	97		2.06	16 1.3
	10	15.90	19.18	.51	.53	96		2.06	13 .9
	20	16.50	.52	.88	4.80	85		3.10	14 .8
Stn. 8	0	15.90	.09	.39	5.50	95		2.06	8 .6
	10	15.80	.23	.61	.60	97		1.00	11 .8
	20	16.00	.41	.81	.28	92		2.06	12 .9
Stn. 9	0	16.20	.03	.24	.44	95		1.00	11 .8
	10	16.50	.46	.76	.33	94		1.00	11 .8
Stn. 10	0	16.60	.38	.64	.40	95		3.10	5 .4
	10	16.50	.47	.78	.35	94		3.10	5 .4
Stn. 11	0	17.00	.67	.94	.37	96		0.00	10 .7
	10	16.90	.62	.88	6.07	108		0.00	11 .8
	20	16.70	.61	26.92	5.42	96		0.00	8 .6
Stn. 12	0	17.50	.67	25.82	.35	96		0.00	11 .8
	10	16.90	.64	.91	.37	95		0.00	11 .8
	20	17.00	.62	.86	.40	96		0.00	8 .6
	30	16.90	.64	.92	.37	95		0.00	8 .6
	40	17.10	.70	.95	.32	95		0.00	8 .6
1947									
7.2.47 27.11								IP	
Stn. 1	0	21.90	20.06	25.20	5.20	101		0.00	2 .1
	10	22.00	.06	.20	.15	100		0.00	8 .6
	20	22.00	.09	.22	.20	101		0.00	5 .4
Stn. 2	0	21.90	.04	.16	4.89	95		0.00	8 .6
	10	21.80	.07	.24	.95	96		0.00	5 .4
Stn. 3	0	21.80	.02	.17	5.18	101		0.00	2 .1
	10	21.75	.04	.27	.18	101		0.00	2 .1
Stn. 4	0	21.30	.02	.31	.05	97		0.00	2 .1
	10	21.60	.00	.21	4.95	96		0.00	2 .1
	20	21.50	19.99	.21	5.03	97		0.00	5 .4
Stn. 5	0	20.80	.93	.33	.03	96		3.10	8 .6
	10	20.90	.95	.32	.03	96		2.06	5 .4
	20	20.85	.95	.34	.05	96		2.06	8 .6
Stn. 6	0	20.95	.96	.32	.05	96		3.10	8 .6
	10	20.70	.96	.39	.08	97		0.00	5 .4
	20	21.10	.93	.25	.12	98		0.00	2 .1
	30	20.80	.90	.38	.00	95		0.00	2 .1
	40	20.70	.88	.28	.05	96		0.00	2 .1

Vessel 72 9.00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp °C.	Cl °/oo	σt	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1947 STN								IP	
5/7/47 5. xi 1									
Stn. 1 19	0	19.60	19.53	25.09	5.17	98		2·06	2·1
	10	18.30	.51	.40	.25	95		1·00	.0
	20	18.10	.53	.47	.28	96		2·06	.0
Stn. 2 20	0	20.50	.57	24.91	.28	99		2·06	.0
	10	18.60	.57	25.41	.17	95		2·06	.0
	20	18.60	.56	.40	.17	95		2·06	.0
Stn. 3 21	0	19.00	.56	.29	.40	99		2·06	.0
	10	19.00	.57	.30	.40	99		0·00	.0
Stn. 4 22	0	19.00	.57	.30	.40	99		3·10	.0
	10	19.00	.58	.32	.37	99		4·13	.0
Stn. 5 23	0	20.40	.58	24.96	.37	101		0·00	.0
	10	18.90	.57	25.33	.37	98		0·00	.0
Stn. 6 24	0	19.20	.58	.27	.34	99		3·10	.0
	10	19.20	.57	.25	.37	99		3·10	.0
								IP	
11. xi STN									
11/11/47 Stn. 1 40	0	18.85	19.53	25.29	5.39	99		3·10	22
	10	18.65	.55	.36	.52	101		4·00	22
Stn. 2 41	0	18.60	.60	.45	.50	101		1·00	22
	10	18.35	.60	.51	.47	100		2·06	22
Stn. 3 42	0	18.55	.63	.50	.55	102		4·00	25
	10	18.45	.63	.53	.44	99		1·00	22
Stn. 4 43	0	18.55	.64	.51	.58	102		2·06	22
	10	18.45	.64	.54	.50	101		2·06	22
	20	18.45	.64	.54	.47	100		2·06	17
Stn. 5 44	0	18.60	.69	.47	.47	100		4·13	28
	10	18.50	.78	.61	.39	99		2·06	20
	20	18.55	.73	.64	.47	100		2·06	17
Stn. 6 45	0	18.70	.73	.60	.44	100		1·00	11
	10	18.60	.78	.70	.50	101		3·10	22
	20	18.55	.79	.72	.50	101		2·06	25
	30	18.60	.78	.70	.39	99		2·06	20

Vessel 72 Cr. 00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date 15-4-48	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1948 STN								I.P	
15.1▼									
Stn. 27	0	21.30	19.93	25.20	4.95	95		0.00	.0
	10	21.20	.95	.24	5.13	98		0.00	.0
Stn. 28	0	21.30	.94	.20	.06	97		0.00	.0
	10	21.30	.93	.20	.06	97		2.06	.0
Stn. 29	0	21.30	.96	.23	.11	98		0.00	.0
	10	21.30	.96	.23	.02	96		0.00	3.2
Stn. 210	0	21.40	.90	.12	.17	99		0.00	.0
	10	21.40	.95	.19	4.95	95		0.00	3.2
Stn. 211	0	21.50	.92	.12	5.03	97		0.00	.0
	10	21.60	.91	.09	.17	100		0.00	.0
	20	21.50	.96	.18	4.96	96		0.00	.0
Stn. 212	0	21.70	.84	24.95	5.13	99		1.00	.0
	10	21.80	.86	.96	.10	99		0.00	.0
	20	21.60	.90	25.07	.13	99		1.00	.0
	30	21.70	.95	.10	4.90	95		3.10	.0
23-8-48 STN									
~~23. VIII~~								I.P	
Stn. 226	0	16.60	19.26	25.47	5.93	104		.00	12.9
	10	16.75	.40	.62	.75	102		1.00	8.6
Stn. 227	0	17.20	.49	.65	.90	105		.0	12.9
	10	16.90	.55	.80	.78	102		.00	8.6
Stn. 228	0	17.10	.54	.74	.70	101		.00	8.6
	10	17.00	.54	.76	.75	102		.00	8.6
Stn. 229	0	17.60	.60	.70	.65	102		.00	15 1.1
	10	17.20	.58	.78	.66	101		.00	0 .0
Stn. 230	0	17.90	.60	.63	.68	103		.00	0 .0
	10	17.80	.62	.67	.58	101		.0	0 .0
Stn. 231	0	18.40	.58	.48	.54	101		.00	8.6
	10	18.40	.64	.55	.54	101		.0	0 .0
	20	18.10	.60	.58	.72	104		.00	4.3
	30	17.90	.58	.60	.55	100		.0	8.6

Vessel 32 Cr 00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948								IP	
4. xi STN 55									
Stn. 255	0	18.60	19.66	25.53	5.31	97		0.00	2 · 1
	10	18.20	.67	.65	.31	97		0.00	9 · 6
Stn. 256	0	18.60	.70	.59	.24	96		1.00	0 · 0
	10	18.10	.71	.73	.15	94		1.00	2 · 1
Stn. 357	0	18.70	.70	.56	.35	98		16.52	5 · 4
	10	18.40	.70	.64	.18	95		17.55	12 · 9
Stn. 458	0	19.00	.70	.49	.33	98		4.13	0 · 0
	10	18.40	.70	.64	.31	97		5.16	0 · 6
Stn. 559	0	19.00	.70	.49	.31	98		6.19	5 · 4
	10	18.70	.71	.58	.38	99		7.23	5 · 4
Stn. 660	0	19.60	.72	.36	.31	99		0.00	2 · 1
	10	18.90	.73	.55	.26	97		0.00	2 · 1
	20	18.70	.73	.60	.15	94		0.00	2 · 1
12. xii STN								IP	
Stn. 284	0	21.30	19.70	24.88	5.38	103		0.00	2 · 1
	10	21.10	.72	.96	.41	103		0.00	2 · 1
Stn. 285	0	21.10	.70	.93	.35	102		1.00	2 · 1
	10	21.10	.80	25.07	.48	104		1.00	5 · 4
Stn. 386	0	20.60	.73	.11	.65	107		0.00	5 · 4
	10	20.00	.74	.28	.89	110		1.00	2 · 1
Stn. 487	0	20.40	.75	.18	.68	107		2.06	5 · 4
	10	20.20	.70	.17	.77	109		0.00	5 · 4
Stn. 588	0	20.40	.76	.20	.80	109		0.00	5 · 4
	10	20.30	.77	.24	.83	110		0.00	2 · 1
Stn. 689	0	20.40	.78	.23	.71	107		1.00	2 · 1
	10	20.00	.79	.35	.51	103		1.00	2 · 1
	20	19.40	.75	.45	.83	108		0.00	0 · 0

Vessel 72 C4.00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949 S/N								I.P.	
6.IV									
Stn. 1	0	22.10	20.08	25.17	5.19	101		3·10	10·3
	10	22.00	.20	.37	.13	100		4·13	2·1
Stn. 2	0	22.40	19.86	24.79	4.99	98		4·13	0·0
	10	22.40	.87	.80	5.05	99		4·13	0·0
Stn. 3	0	22.35	.87	.82	4.97	98		6·19	6·2
	10	22.40	.91	.86	.85	95		5·16	0·0
Stn. 4	0	22.30	.86	.82	5.00	98		5·16	0·0
	10	22.15	.92	.94	.17	100		4·13	0·0
Stn. 5	0	22.60	.82	.68	4.92	97		7·23	2·8
	10	22.30	.91	.89	.43	87		8·26	0·0
Stn. 6	0	22.45	.82	.72	5.15	101		7·23	0·0
	10	22.45	.85	.76	.21	102		6·19	0·0
	20	21.90	.94	25.04	4.92	96		7·23	0·0
7.VI S/N								I.P.	
Stn. X13	0	18.85	19.74	25.56	5.38	99		6·19	·0
	10	18.85	.71	.54	.40	100		18·58	·0
Stn. X14	0	19.75	.73	.33	.28	98		6·19	·0
	10	19.35	.74	.45	.34	99		4·13	·0
Stn. X15	0	19.85	.72	.29	.21	97		11·35	·0
	10	19.90	.74	.31	.13	96		3·16	·0
Stn. X16	0	20.80	.66	24.95	.13	98		11·35	·0
	10	20.80	.69	25.00	.13	98		14·45	·0
Stn. X17	0	20.76	.70	24.97	.12	98		4·13	·0
	10	20.76	.66	25.02	.25	100		12·39	·0
Stn. X18	0	21.90	.68	24.68	.06	98		2·06	·0
	10	21.90	.65	.64	.04	98		3·10	·0
	20	21.86	.65	.65	.06	98		2·06	·0

Vessel 72 G.00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
~~18.vii~~ STN								IP	
18/7/49 Stn. 125	0	18.60	19.62	25.47	5.50	101		2-04	.0
	10	18.55	.57	.42	.58	102		0·00	.0
Stn. 226	0	18.45	.62	.51	.55	101		0·00	.0
	10	18.50	.62	.50	.48	100		2·06	.0
Stn. 327	0	18.80	.62	.42	.55	102		4·13	.0
	10	18.78	.62	.43	.67	104		3·10	.0
Stn. 428	0	18.95	.67	.46	.57	102		2·06	.0
	10	18.90	.67	.47	.50	101		2·06	.0
Stn. 529	0	19.10	.65	.59	.50	102		0·00	.0
	10	19.00	.62	.37	.55	102		0·00	.0
Stn. 630	0	19.45	.62	.26	.45	101		0·00	.0
	10	19.50	.62	.24	.55	103		0·00	.0
	20	19.48	.62	.25	.50	102		4·13	.0
~~12.x~~ STN							IP	Tot	
12/12/49 Stn. 143	0	17.70	19.41	25.41	5.85	105	·19	6-11	·35 ·0
	10	17.60	.54	.61	.80	104	·16	5	·0
Stn. 244	0	18.20	.60	.55	.82	105	·19	6-20	·65 ·0
	10	17.95	.60	.62	.75	104	·23	7	·0
Stn. 345	0	18.25	.65	.61	.68	103	·23	7-8	·26 ·0
	10	18.05	.65	.66	.68	103	·19	6	·0
Stn. 446	0	18.50	.65	.55	.59	102	·19	6-6	·19 ·0
	10	18.45	.65	.56	.62	103	·19	6	·0
Stn. 547	0	18.60	.65	.52	.59	102	·19	6-9	·29 ·0
	10	18.45	.63	.53	.59	102	·19	6	·0
Stn. 648	0	18.70	.65	.50	.64	103	·16	5-7	·23 ·0
	10	18.40	.65	.57	.64	103	·19	6	·0
	20	18.60	.65	.52	.70	104	·10	3-14	·45 ·0

Vessel 72 C400

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949 Stn									
~~11. xi~~								IP	Tot
Stn. 1	0	19.31	19.60	25.27	5.70	105	.10	3-6	.19 .0
	10	19.46	.68	.34	.75	106	.13	4	.0
Stn. 2	0	19.47	.69	.36	.12	97	.13	4-7	.23 .0
	10	19.46	.70	.37			.13	4	.0
Stn. 3	0	19.19	.70	.44	.51	102	.16	5-0	.00 .0
	10	19.20	.70	.43	.59	103	.13	4	.1
Stn. 4	0	19.21	.70	.43	.45	100	.06	2-7	.23 .0
	10	19.23	.70	.43	.57	103	.10	3	.0
Stn. 5	0	19.30	.71	.32	.58	103	.06	2-3	.10 .0
	10	19.30	.71	.32	.65	105	.10	6	.0
Stn. 6	0	19.56	.72	.27	.73	107	.00	0-11	.35 .0
	10	19.25	.69	.41	.76	107	.06	2	.0
	20	19.20	.69	.42	.73	107	.06	2-7	.23 .0
1950 Stn									
23. ii								IP	Tot
Stn. 1	0	22.40	20.10	25.11	5.26	103	.19	6-4	.13 .0
	10	22.38	.09	.11	.26	103	.10	3	.0
Stn. 2	0	22.15	19.94	24.97	.46	105	.00	0-2	.06 .0
	10	22.12	.95	.99	.46	105	.19	6	.0
Stn. 3	0	22.18	.94	.96	.46	105	.19	6-3	.10 .0
	10	22.08	.94	.99	.35	103	.26	8	.0
Stn. 4	0	22.28	.94	.93	.26	102	.10	3-0	.00 .0
	10	22.30	.94	.93	.26	102	.00	0	.0
Stn. 5	0	22.49	.98	.93	.26	103	.23	7-0	.00 .0
	10	22.43	.98	.95	.26	103	.06	2	.0
Stn. 6	0	22.20	.87	.86	.33	104	.19	6-0	.00 .0
	10	22.22	.86	.84	.29	103	.16	5	.0
	20	22.50	.96	.90	.26	103	.16	5-1	.00 .0

Vessel 72 G00

Station: FREMANTLE TO ROTTNEST ISLAND

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950								I.P. Tot	
2- STN									
2/1/50 5.x									
Stn. 1	0	17.80	19.58	25.63	5.60	101	8.24	·26 8-0	·00 .0
	10	17.80	.61	.66	.70	102	.23	·13 4	.0
Stn. 2	0	18.00	.61	.62	.65	102	.23	·16 5-0	·00 .0
	10	18.00	.61	.62	.65	102	.24	·13 3	.0
Stn. 3	0	18.40	.63	.54	.65	103	.24	·80 1-6	·19 .0
	10	18.20	.61	.57	.65	103	.24	·16 5	.0
Stn. 4	0	18.60	.66	.53	.65	103	.24	·10 3-3	·13 .0
	10	18.50	.62	.50	.65	103	.24	·19 6	.0
Stn. 5	0	18.90	.64	.43	.65	103	.26	·13 3-6	·19 .0
	10	18.80	.65	.47	.68	104	.25	·16 5	.0
Stn. 6	0	18.30	.64	.58	.68	103	.24	·13 4-0	·00 .0
	10	18.20	.64	.60	.65	104	.26	·19 6	.0
	20	18.20	.67	.65	.65	104	.25	·10 3-10	·33 .0

Vessel 72 G.00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date 25 3-44	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O_2	O_2 %	pH	PO_4-P		NO_3-N	
								IP	TOT		
1944											
25- STN →											
26.iii											
Stn. 1	0	21.98	19.93	25.00	4.99	97	·0	1-4	·1	2	·1
	10	21.98	.94	.01	5.00	97	·0	1-4	·1	2	·1
	20	21.98	.92	24.98	.19	101	·0	0-5	·2	4	·3
	30	21.80	.95	25.07	4.89	95	-0	0		0	·0
	40	21.85	.94	.05	.88	94	-1	3-3	·1	0	·0
Stn. 2	0	21.92	.92	.00	5.06	98	·1	3-3	·1	2	·1
	10	21.90	.89	24.97	.03	97	·4	12-4	·1	4	·3
	20	21.88	.90	.98	.05	98	·1	3-9	·0	0	·0
	30	21.85	.95	25.06	4.96	96	·1	3-7	·2	8	·6
	40	21.70	.94	.09	.82	93	-1	4-0	·0	2	·1
Stn. 3	0	21.98	.85	24.89	5.05	98	·1	3-3	·1	0	·0
	10	21.80	.83	.91	4.98	96	·1	3		2	·1
	20	21.80	.86	.95	5.00	97	·1	3-2	·1	2	·1
	30	21.70	.84	.95	.05	97	·1	2-5	·2	4	·3
	40	21.60	.84	.98	.02	97	·1	3-0	·0	8	·6
	50	21.60	.85	25.00	4.98	96	·1	3-3	·1	8	·6
Stn. 4	0	22.30	.79	24.72	5.06	98	·1	3-2	·1	0	·0
	10	21.80	.80	.87	4.98	96	·1	3-1	·0	4	·3
	20	21.60	.81	.94	5.08	98	·0	0-3	·1	4	·3
	30	21.50	.80	.96	.00	96	·0	1-9	·3	2	·1
	40	21.45	.80	.97	.01	96	·1	3-2	·1	8	·6
	50	21.44	.83	25.01	4.63	89	·1	4-0	·0	4	·3
Stn. 5	0	23.00	.61	24.27			·1	3-2	·1	4	·3
	10	23.00	.63	.30			·1	3-0	·0	4	·3
	20	22.88	.70	.43			·1	4-1	·0	8	·6
	30	22.53	.69	.52			·4	13-5	·2	4	·3
	40	22.00	.72	.71			·1	8-7	·2	4	·3
	50	21.80	.80	.87			·7	23-2	·1	4	·3
Stn. 6	0	23.62	.59	.06	.94	98	·1	4-0	·0	2	·1
	10	23.34	.58	.14	.90	97	·1	3-2	·1	4	·3
	20	23.10	.61	.24	.91	97	·1	3-0	·0	8	·6
	30	22.93	.68	.39	.99	98	·0	1-9	·3	4	·3

Vessel 72 9.00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date 17-11-44	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
17- Stn.									
18. xi								IP Tot	
Stn. 27	0	21.40	19.82	25.01	5.12	98	.0	0-3 .1	.0
	10	21.00	.83	.10	.08	97	.0	0-11 .4	.0
	20	21.13	.83	.10	.10	97	.0	0-3 .1	.0
	30	21.00	.84	.14	.12	98	.0	0-11 .4	.0
	40	21.40	.83	.02	.06	97	.0	0-6 .2	.0
Stn. 48	0	21.40	.81	.00	.15	99	.0	0-5 .2	.0
	10	21.00	.76	.04	.12	98	.0	0-1 .0	.0
	20	21.17	.78	.02	.19	99	.0	0-2 .1	.0
	30	21.02	.77	.04	4.45	85	.0	0-6 .2	.0
	40	21.94	.77	24.81	5.15	100	.0	0-5 .2	.0
Stn. 69	0	21.45	.63	.74	.11	98	.0	0-5 .2	.0
	10	21.10	.78	25.04	.07	97	.0	0-8 .3	.0
	20	21.00	.78	.04	.00	95	.0	0-6 .2	.0
	30	20.98	.78	.07	.11	97	.0	0-6 .2	.0
	40	21.00	.76	.08	.09	97	.0	0-2 .1	.0
1946									
4-9-46									
3-									
4. ix Stn.								IP	
Stn. 1	0	17.20	19.65	25.86	5.59	100	.2	5	26 1.9
	10	16.90	.66	.92	.67	101	.3	10	15 1.1
	20	16.70	.67	26.01	.70	101	.5	14	18 1.3
	30	16.60	.66	.02	.72	101	.3	8	15 1.1
Stn. 2	0	17.90	.67	25.72	.48	99	.0	1	10 .7
	10	17.80	.65	.72	.50	99	.1	2	10 .7
	20	17.40	.62	.77	.50	99	.0	0	10 .7
	30	17.50	.62	.74	.42	97	.0	0	12 .9
Stn. 3	0	17.90	.65	.69	.48	99	.2	6	15 1.1
	10	17.60	.66	.78	.45	98	.2	6	18 1.3
	20	17.60	.65	.77	.48	99	.2	5	12 .9
	30	17.60	.66	.78	.45	98	.2	6	15 1.1
	40	17.10	.67	.91	.42	97	.2	7	12 .9
Stn. 4	0	18.70	.65	.49	.39	99	.1	3	16 1.1
	10	18.20	.67	.64	.50	100	.1	3	18 1.3
	20	18.20	.67	.64	.42	99	.2	5	16 1.1
	30	18.20	.66	.63	.50	100	.2	5	15 1.1

Vessel 72 Cl. 00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date 4-9-46	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O_2	O_2 %	pH	IP PO_4-P	NO_3-N	
1946										
3- STN.								IP.		
4. ix										
Stn. 4	40	18.00	19.66	25.68	5.50	100		5·16	16	1·1
	50	17.90	.65	.69	.42	98		4·13	20	1·4
Stn. 5	0	18.40	.67	.59	.52	101		1·00	18	1·3
	10	18.40	.68	.60	.52	101		2·06	15	1·1
	20	18.30	.67	.62	.48	100		3·10	23	1·6
	30	18.40	.67	.59	.42	99		1·00	25	1·8
	40	18.40	.68	.60	.48	100		1·00	25	1·8
Stn. 6	0	18.60	.67	.54	.48	100		0·00	18	1·3
	10	18.50	.67	.57	.50	101		0·00	18	1·3
	20	18.30	.69	.55	.45	100		0·00	25	1·8
	30	18.40	.68	.60	.49	100		0·00	23	1·6
	40	18.00	.72	.76	.52	100		0·00	21	1·5
1947										
28. iii								IP.		
Stn. 7	0		19.94		5.01			·0	2	·1
	10		.97		4.90			·0	0	·0
	20		.97		.92			·0	2	·1
	30		.97		.95			·0	2	·1
Stn. 8	0		.87		.94			·0	0	·0
	10		.89		.98			1·0	2	·1
	20		.87		.87			·0	2	·1
	30		.88		.92			·0	0	·0
	40		.88		.84			·0	0	·0
Stn. 9	0		.82		.92			·0	2	·1
	10		.82		.87			·0	0	·0
	20		.83		.87			·0	2	·1
	30		.82		.92			·0	2	·1
	40		.87		.95			·0	0	·0

8/9/47

Vessel 72 0400

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1947									
4.iv STN									
Stn. A 10	0	23.20	19.88	24.58	4.82	96		.0	2
	10	23.10	.88	.61	.92	97		.0	0
	20	23.10	.87	.60	.98	98		.1	2
	30	22.90	.88	.66	.90	96		.0	2
	40	22.80	.83	.63	.87	96		.0	2
	50	22.80	.84	.64	.84	95		.1	2
Stn. B 11	0	23.20	.77	.43	5.15	102		.0	0
	10	22.95	.78	.52	.20	102		.0	0
	20	22.90	.79	.55	4.98	98		.0	5
	30	22.90	.77	.58	.92	97		.0	2
	40	22.90	.79	.55	.92	97		.0	5
	50	22.90	.78	.54	.92	97		.1	0
Stn. C 12	0	23.20	.74	.39	5.08	101		.0	5
	10	22.95	.69	.40	.15	101		.0	0
	20	22.80	.73	.49	.08	100		.0	2
	30	22.80	.73	.49	.08	100		.0	2
	40	22.80	.75	.51	.05	99		.0	2
	50	22.90	.74	.48	4.92	97		.0	2
5-8.vi STN									
Stn. X 13	0	20.80	19.64	24.93	5.07	96		.0	0
	10		.64		.01			.0	0
	20		.63		4.94			.0	5
	30	20.30	.65	25.08	5.01	94		.0	2
Stn. Z 14	0	21.30	.63	24.78	.03	96		.0	5
	10		.62		4.93			.0	0
	20		.64		5.05			.0	2
	30		.64		.12			.0	0
	40	20.20	.64	25.09	.05	95		.0	0
Stn. 5 15	0	21.90	.55	24.50	.05	97		.0	2
	10		.57		4.98			.0	0
	20		.59		.93			.0	2
	30		.58		5.03			.0	2
	40		.62		.09			.0	2
	50	20.60	.60	.93	.03	94		.0	0

Vessel 72 G1.00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947								IP - TOT	
5- Stn 2 8. vi									
Stn. 16	0	22.00	19.59	24.54	5.12	99	·0	1-7 · 2	0 · 0
	10		.58		.03		·0	1	5 · 4
	20		.60		.01		·0	0-1 · 0	0 · 0
	30		.59		.03		·0	0	0 · 0
	40		.55		4.96		·0	0	2 · 1
	50	22.00	.59	.54	.98	96	·0	0-5 · 2	2 · 1
Stn. 17	0	22.00	.60	.55	.88	94	·0	0-5 · 2	0 · 0
	10		.58		.98		·0	1	5 · 4
	20		.59		.96		·0	0-1 · 0	0 · 0
	30		.59		.77		·0	1	2 · 1
	40		.60		.88		·0	1	5 · 4
	50	21.90	.59	.56	.74	91	·0	0-3 · 1	0 · 0
Stn. 18	0	22.40	.60	.43	.53	90	·0	1-1-7 · 5	8 · 6
	10		.57		.74		·0	1	5 · 4
	20		.55		.77		·0	1-0 · 0	5 · 4
	30		.60		.62		·0	1	5 · 4
	40	22.30	.59	.45	.59	91	·0	0	5 · 4
30. vii Stn 1								IP	
Stn. 25	0	19.70	19.59	25.15	5.24	98		0 · 0	0 · 0
	10	19.70	.60	.15	4.58	86		4 · 1	0 · 2
	20	19.65	.60	.18	5.21	97		0 · 0	0 · 0
	30	19.65	.59	.17	.18	97		0 · 0	0 · 0
	40	19.65	.59	.17	.09	95		0 · 0	0 · 0
Stn. 26	0	20.20	.62	.05	.15	97		2 · 1	0 · 0
	10	20.20	.60	.03	.09	96		2 · 1	0 · 0
	20	20.15	.59	.04	.09	96		0 · 0	0 · 0
	30	20.10	.60	.06	.15	97		3 · 1	0 · 0
	40	20.10	.59	.05	.09	95		0 · 0	0 · 0
	50	20.10	.59	.05	.04	95		0 · 0	0 · 0
Stn. 27	0	20.90	.58	24.82	.04	96		0 · 0	6 · 4
	10	20.90	.58	.82	4.88	93		2 · 1	6 · 4
	20	20.70	.59	.89	5.04	95		2 · 1	9 · 6
	30	20.70	.59	.89	.04	95		2 · 1	9 · 6
	40	20.60	.59	.91	.09	96		2 · 1	9 · 6

Vessel 72 Cl.00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947 6.x Stn 1								LP.	
Stn. 28	0	19.60	19.63	25.23	5.38	100		0.0	6.4
	10	19.50	.67	.31	.41	101		0.0	6.4
	20	19.20	.68	.40	.41	100		0.0	6.4
	30	19.20	.69	.42	.47	102		1.0	6.6
Stn. 29	0	19.60	.65	.26	.38	100		0.0	6.4
	10	19.40	.67	.34	.41	100		0.0	6.4
	20	19.40	.67	.34	.41	100		0.0	6.4
	30	19.20	.68	.40	.38	99		1.0	6.4
	40	19.20	.68	.40	.38	99		1.0	6.4
Stn. 30	0	19.60	.68	.30	.38	100		0.0	6.4
	10	19.40	.69	.37	.47	102		0.0	6.6
	20	19.30	.67	.36	.38	100		1.0	6.4
	30	19.10	.67	.42	.35	99		1.0	6.4
	40	19.05	.68	.44	.38	99		1.1	6.6
	50	19.20	.68	.40	.32	98		1.0	6.4
Stn. 31	0	20.20	.62	.05	.35	101		1.0	6.4
	10	20.20	.63	.07	.32	100		1.0	6.4
	20	20.00	.64	.14	.35	100		0.0	6.4
	30	19.70	.67	.26	.41	101		0.0	6.4
	40	19.20	.65	.36	.38	99		0.0	6.4
	50	19.10	.64	.37	.29	98		1.0	6.4
Stn. 32	0	20.40	.62	.00	.41	102		1.0	6.4
	10	20.10	.62	.08	.38	101		1.0	6.4
	20	20.20	.62	.06	.35	101		1.1	6.4
	30	20.00	.64	.14	.38	101		1.0	6.4
	40	19.80	.65	.21	.16	96		1.0	6.4
	50	19.80	.63	.18	.38	100		1.0	6.4
Stn. 33	0	20.40	.62	.02	.32	100		0.0	6.4
	10	20.40	.59	24.97	.29	100		1.0	6.4
	20	20.35	.59	.98	.26	99		1.0	6.4
	30	20.25	.59	25.01	.29	99		0.0	6.4
	40	20.10	.62	.08	.26	99		0.0	6.4

Vessel 72 Cr. 00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date 6.4.48	Depth (m.)	Temp. °C.	Cl °/oo	σ t	O_2	O_2 %	pH	PO_4-P	NO_3-N	
1948								JP.		
6.1v										
Stn. 1	0	24.05	19.91	24.58	5.11	103		0.0	2	·2
	10	23.95	.90	.59	.21	105		.00	0	·0
	20	24.10	.90	.37	.28	106		.00	0	·0
	30	23.80	.98	.55	.25	105		.1	0	·0
Stn. 2	0	24.20	.86	.26	.28	108		.0	0	·0
	10	24.10	.87	.31	.06	102		.00	0	·0
	20	24.15	.86	.28	.28	106		.00	0	·0
	30	24.20	.86	.26	.38	108		.00	0	·0
	40	24.20	.86	.26	.28	106		.0	0	·0
Stn. 3	0	24.20	.82	.21	.38	108		.1	2	·0
	10	23.95	.81	.27	.33	107		.0	0	·0
	20	24.00	.82	.27	.18	104		.00	0	·0
	30	24.00	.82	.27	.21	104		.00	0	·0
	40	24.10	.82	.24	.38	108		.0	0	·0
	50	24.10	.81	.22	.31	107		.00	0	·0
Stn. 4	0	24.25	.76	.11	.31	107		.00	0	·0
	10	23.90	.77	.23	.38	108		.00	0	·0
	20	24.00	.77	.20	.31	106		.00	0	·0
	30	24.10	.75	.14	.00	100		.00	3	·2
	40	24.00	.77	.20	.21	104		.1	2	2
	50	24.00	.77	.20	.06	101		.1	2	·0
Stn. 5	0	24.70	.70	23.89	.43	110		.0	0	·0
	10	24.00	.70	24.10	.41	108		.0	0	·0
	20	23.90	.69	.12	.38	108		.00	0	·0
	30	23.90	.71	.15	.06	101		.00	0	·0
	40	23.90	.70	.13	.18	104		.00	0	·0
	50	24.00	.72	.13	.18	104		.00	3	·0
Stn. 6	0	24.50	.66	23.90	.38	109		.00	0	·0
	10	24.10	.68	24.04	.35	107		.0	6	·4
	20	24.10	.69	.06	.21	104		.1	0	·0
	30	23.95	.69	.11	.28	106		.0	0	·0
	40	23.90	.70	.13	4.78	98		.2	11	·7

Vessel 72 4.00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl °/oo	σt	O_2	O_2 °/o	pH	PO_4-P	NO_3-N	
1948 STN								1P		
28/8/48 28. viii										
Stn. ~~238~~	0	18.85	19.62	25.41	5.41	99		0.0	15	1.1
	20	18.85	.63	.43	.35	98		0.0	20	1.4
Stn. 239	0	18.95	.60	.36	.47	101		0.0	20	1.4
	20	18.95	.60	.36	.32	98		5.2	23	1.6
Stn. 240	0	19.20	.60	.30	.35	99		4.1	23	1.6
	20	19.20	.62	.32	.28	98		4.0	32	2.3
Stn. 241	0	19.70	.60	.17	.28	98		2.0	15	1.1
	20	19.40	.59	.24	.32	99		2.0	23	1.6
Stn. 242	0	20.50	.56	24.91	.32	100		4.1	32	2.3
	20	20.10	.56	25.01	.25	98		2.0	28	2.0
Stn. 243	0	20.60	.54	24.85	.28	100		3.2	37	2.6
	20	20.60	.54	.85	.28	100		4.1	28	2.0
								1P		
9/12/48 ~~9. xii~~ STN										
Stn. 271	0	20.55	19.78	25.19	5.66	105		0.0	2	.1
	10	20.50	.80	.23	.66	105		0.0	5	.4
	20	20.50	.78	.21	.62	104		0.0	2	.1
	30	20.50	.82	.26	.62	104		0.0	0	.0
Stn. 272	0	20.40	.76	.20	.58	103		0.0	2	.1
	10	20.30	.79	.27	.58	103		0.0	2	.1
	20	20.30	.80	.29	.62	105		0.0	2	.1
	30	20.40	.78	.23	.62	105		1.0	5	.4
	40	20.40	.78	.23	.58	104		2.1	15	1.1
Stn. 273	0	20.40	.75	.18	.58	104		3.1	9	.6
	10	20.30	.74	.20	.55	103		2.1	12	.9
	20	20.30	.75	.21	.49	102		1.0	9	.6
	30	20.30	.76	.23	.49	102		0.0	9	.6
	40	20.30	.78	.26	.52	103		0.0	5	.4
Stn. 274	0	20.40	.74	.17	.55	103		0.0	2	.1
	10	20.40	.77	.21	.62	104		0.0	0	.0
	20	20.30	.78	.26	.58	104		0.0	2	.1
	30	20.30	.76	.23	.62	104		0.0	2	.1
	40	20.35	.77	.23	.58	104		0.0	5	.4
Stn. 275	0	20.60	.78	.18	.66	105		0.0	2	.1
	10	20.50	.72	.12	.68	105		0.0	0	.0
	20	20.50	.77	.19	.62	104		0.0	2	.1
	30	20.40	.77	.21	.55	103		0.0	0	.0
	40	20.50	.75	.16	.66	105		2.1	12	.9

Vessel 72 Cr 00

Station: GERALDTON TO ABROLHOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl ‰	σ_t	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948								T.P.	
9. xii.									
Stn. 36	0	20.90	19.75	25.05	5.55	102		3 · 1	15 1·1
	10	20.70	.75	.10	.29	98		2 · 1	9 ·6
	20	20.60	.75	.13	.66	105		2 · 0	12 ·9
	30	20.60	.75	.13	.68	105		0 · 0	9 ·6
1949									
28-29. xii								T.P.	
Stn. 237	0	20.65	19.51	24.79	5.33	101		6 · 2	· 0
	10	20.70	.53	.81	.30	100		6 · 2	. 0
	20	20.65	.53	.82	.10	96		0 · 0	. 0
	30	20.70	.53	.81	.10	96		5 · 2	. 0
Stn. 238	0	20.62	.53	.85	.12	97		0 · 0	. 0
	10	20.65	.58	.90	.05	95		0 0	· 0
	20	20.68	.56	.86	.32	101		3 · 1	· 0
	30	20.60	.53	.83	.17	98		0 · 0	. 0
Stn. 239	0	20.80	.56	.83	.02	95		10 · 3	. 0
	10	20.75	.51	.76	.10	96		10 · 3	. 0
	20	20.78	.53	.69	4.74	91		0 · 0	· 0
	30	20.75	.53	.69	.66	88		12 · 4	· 0
	40	20.80	.53	.68	5.00	95		4 · 1	· 0
Stn. 240	0	21.20	.51	.64	4.58	87		3 · 1	· 0
	10	21.25	.51	.62	5.02	96		7 · 2	· 0
	20	21.22	.53	.66	.02	96		0 · 0	· 0
	30	21.15	.51	.65	.15	98		7 · 2	· 0
	40	21.05	.53	.70	.10	97			· 0
Stn. 241	0	21.60	.51	.53	.12	98		13 · 4	· 0
	10	21.65	.51	.52	.21	100		3 · 1	· 0
	20	21.62	.53	.55	4.96	95		12 · 4	· 0
	30	21.58	.51	.53	5.04	97		0 · 0	· 0
	40	21.55	.48	.50	.02	97		0 · 0	· 0
Stn. 242	0	21.42	.51	.58	.20	100		10 · 3	· 0
	10	21.40	.51	.58	.12	98		6 · 2	· 0
	20	21.40	.53	.61	.00	96		6 · 2	· 0
	30	21.38	.53	.61	.10	98		0 · 0	. 0

Vessel 72 G.00

Station: GERALDTON TO AROLLOS ISLANDS

Latitude: Longitude:

Date	Depth (m.)	Temp. °C.	Cl ‰	σt	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
8.xi									
Stn. X51	0	20.91	19.65	24.91	5.40	103	-1	2-2	1
	10	20.89	.65	.92	.43	103	-1	2	.0
	20	20.91	.67	.92	.35	102	-1	3-9	.3 .0
	30	20.80	.72	.94	.47	104	-0	1	.0
Stn. X52	0	20.83	.68	.98	.45	104	-1	3-9	.1 .0
	10	20.78	.68	.99	.52	105	-1	3	.0
	20	20.80	.71	25.03	.38	102	-1	4	.0
	30	20.45	.66	.05	.45	103	-1	2	.0
	40	20.38	.68	.10	.50	104	-1	3-6	.2 .0
Stn. X53	0	20.95	.62	24.86	.43	103	-1	3-7	.2 .0
	10	20.90	.69	.97	.50	104	-1	3	.0
	20	20.90	.72	25.01	.54	105	-1	2-6	.2 .0
	30	20.88	.70	24.99	.49	105	-1	4	.0
	40	20.42	.76	25.20	.30	100	-1	3	.0
	50	20.30	.78	.26	.55	104	-2	5-5	.2 .0
Stn. X54	0	21.02	.68	24.92	.49	105	-1	2-4	.1 .0
	10	20.98	.67	.93	.45	104	-1	3	.0
	20	21.02	.68	.92	.54	105	-1	3-3	.1 .0
	30	20.82	.69	25.00	.43	103	-0	2	.0
	40	20.75	.68	.01	.45	103	-2	7	.0
	50	20.55	.69	.07	.47	103	-0	2-6	.2 .0
Stn. X55	0	21.15	.65	24.85	.43	103	-2	7-4	.1 .0
	10	21.10	.64	.85	.47	104	-2	5	.0
	20	21.05	.64	.86	.49	105	-2	5-4	.1 .0
	30	21.05	.64	.86	.47	105	-1	3	.0
	40	20.98	.64	.88	.50	105	-1	3	.0
Stn. X56	0	21.42	.65	.78	.50	105	-2	6-3	.1 .0
	10	21.15	.65	.85	.54	105	-1	3	.0
	20	21.15	.69	.91	.40	105	-1	3	.0
	30	21.10	.68	.90	.47	105	-1	3-8	.3 .0

8/1/49

LP

SECTION B

ESTUARINE HYDROLOGICAL INVESTIGATIONS IN SOUTH-WESTERN AUSTRALIA

SWAN RIVER, PEEL-HARVEY INLET, LESCHENAULT INLET, HARDY INLET, NORNALUP INLET, WILSON'S INLET, KING GEORGE SOUND, 1944-50

Location of Stations

Table 3 gives the details of stations within each system dealt with in this section. The distance in miles of each sampling point from the entrance of the system has been given and will enable the longitudinal relationship to be established.

TABLE 3

System	Station No.	Distance from Mouth (miles)	Location
Swan River	1	0	The Mole
	2	2.4	Traffic Bridge, Fremantle
	3	4.4	Billygoat Farm
	4	6.4	Point Walter
	5	9.6	Applecross
	5a	10.4	Canning Bridge
	6	11.0	Crawley Bay
	7	12.2	The Narrows
	8	14.6	The Causeway
	9	17.0	Maylands Jetty
	9a	19.4	Smith's Bay
	10	21.8	Ascot Bridge
	11	23.8	McDonald's Dairy
	12	25.6	Barkers' Bridge
	13	30.6	Middle Swan Bridge
Peel-Harvey Inlet	1	0.8	Mandurah Bridge
	1a	3.4	The Chimneys
	2	5.5	Middle of Peel Inlet
	3	6.1	Mouth of Murray River
	3a	6.9	Serpentine River, Lower Road Bridge
	4	7.5	Greenwood Bay
	5	7.0	West Murray
	6	9.0	Peel Inlet East
	7	6.3	Mouth of Harvey Inlet
	7a	7.8	Watts Bay
	8	10.5	Murray River at Ravenswood
	9	24.5	Murray River at Pinjarra
Leschenault Inlet	1	0	Bunbury Wharf
	2	2.0	Mouth of Preston River
	2a	3.0	Preston River, Lower Road Bridge
	3	3.8	Mouth of Collie River
	3a	4.3	Collie River, Lower Road Bridge
	4	6.3	Middle of Inlet
	5	7.5	Point Lautour, Collie River

continued)

Location
North End of Inlet
Brunswick River, Lower Road Bridge
Collie River, Australind Road
Preston River, Upper Road Bridge
Brunswick River, Upper Road Bridge
Collie River, Upper Road Bridge
Entrance
Off Lion Island
Off West Bay Creek
Middle of Inlet
Mouth of Blackwood River
Blackwood River, Alexandra Bridge
Blackwood River, Nannup
Blackwood River, Bridgetown
Blackwood River, Boyup Brook
Entrance
Mouth of Deep River
Middle of Inlet
Mouth of Frankland River
Mouth of Walpole Inlet
Deep River at Tinglewood
Deep River Road Bridge
Frankland River Road Bridge
Entrance
Off Pinninger's Point
Mouth of Denmark River
Off Pelican Island
Off Jumbo Rock
Quariup
Hay River Road Bridge
Denmark River Road Bridge
Entrance
Middle of Sound
Princess Royal Harbour
Mouth of Oyster Harbour
King River, Lower Road Bridge
Kalgan River, Lower Road Bridge
Kalgan River, Upper Road Bridge
King River, Upper Road Bridge

th these systems will include station
tion of each sampling point.

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl. °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
29. ii	1	S	22.95	20.20	4.93	98			4
		D	22.70	.27	.98	98			2
	3	S	23.45	.28	5.17	103			9
		D	23.20	.34	.08	101			14
	4	S	24.35	.00	4.80	97			9
		D	23.00	.20	.29	85			41
	5	S	23.60	19.94	.63	92			4
		D	22.40	.95	3.46	68			6
	8	S	24.50	18.36	4.20	83			20
		D	24.20	.97	3.73	74			9
1. iii	2	S	21.70	20.04	5.31	102			0
		D	21.60	.05	4.86	94			2
	9	S	26.25	16.90	3.58	72			50
	9a	S	25.10	15.32	4.72	91			14
	10	S	25.90	14.03	3.80	74			6
	11	S	26.15	11.50	4.90	93			4
2. iii	12	S	24.80	7.36	3.95	70			6
	13	S	24.85	2.76	.73	63			4
30. iii	1	S	21.20	20.31	4.68	90		1	12
	3	S	21.50	.29	.42	85		3	12
		D	21.35	.31	.32	83		3	15
	4	S	21.55	.32	.66	90		4	4
		D	21.00	.33	.24	81		4	4
	5	S	21.75	.42	.80	91		2	4
		D	21.40	.34	.61	89		3	7
	7	S	21.30	.03	.58	88		5	20
		D	21.60	.38	.58	89		2	4
	8	S	21.20	18.27	.15	78		15	112
		D	20.95	.47	.02	75		8	92
31. iii	5a	S	21.60	20.61	.78	93		1	7
	9	S	20.40	16.33	.72	86		2	41
	9a	S	21.45	15.96	.80	88		1	32
	10	S	22.30	14.34	3.88	71		1	18
	11	S	22.80	12.06	4.39	79		1	4
	12	S	23.50	9.87	3.61	64		0	12
	13	S	21.70	4.76	.94	65		7	7

Location: **SWAN RIVER**

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
3. v	1	S	18.65	19.93	5.12	94		0	3
		D	18.50	20.00	4.41	81		0	3
	2	S	18.70	.14	3.92	72		0	26
		D	18.60	.09	4.31	79		0	39
	3	S	18.25	.60	3.47	64		2	22
		D	18.20	.30	.69	67		5	14
	4	S	18.40	.30	4.83	88		0	2
		D	18.05	.33	3.85	70		0	11
	5	S	18.25	.38	4.98	91		8	0
		D	17.40	.40	.80	86		7	2
	7	S	17.00	19.89	.95	88		5	30
		D	17.80	20.13	.77	86		4	15
	8	S	17.15	18.20	.46	85		9	85
		D	17.95	19.20	.22	76		13	81
4. v	9	S	18.25	16.65	.26	75		32	101
	10	S	18.60	15.08	.08	71		5	98
	11	S	18.65	12.67	6.08	103		2	41
	12	S	18.85	10.80	4.93	82		0	50
	13	S	19.30	7.98	3.38	55		0	30
1. vi	1	S	17.75	19.70	5.25	95		0	2
		D	17.55	.69	.19	93		0	5
	2	S	17.30	.62	4.92	88		0	21
		D	17.15	.67	.89	87		0	28
	3	S	16.10	.54	5.31	93		0	20
		D	16.00	.51	.33	93		0	21
	4	S	15.50	.34	6.43	111		0	6
		D	15.80	.77	3.97	69		0	0
	5	S	15.05	18.85	6.08	104		0	2
		D	15.70	19.56	4.50	78		0	5
	7	S	15.30	.02	.91	84		0	18
		D	15.60	.20	.99	86		0	10
	8	S	15.20	17.42	5.49	92		0	51
		D	14.50	.75	.73	96		0	75
2. vi	5a	S	14.95	16.09	6.07	100		0	6
	9	S	16.90	13.13	4.99	82		0	112
	9a	S	16.80	12.75	.70	77		9	112
	10	S	16.85	.04	.72	77		9	99
	11	S	17.25	10.01	5.12	82		4	99
	12	S	18.10	11.04	2.74	45		0	73
	13	S	17.20	7.60	3.63	57		0	51

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
3. vii	5a	S	14.80	15.09	5.81	94		0	0
	9	S	14.45	10.38	.36	82		0	99
	9a	S	14.80	9.38	.43	83		0	79
	10	S	15.20	8.56	4.15	63		0	111
	11	S	14.80	5.06	.71	68		0	174
	12	S	13.70	4.24	.20	59		0	116
	13	S	13.50	3.12	.69	65		0	152
4. vii	1	S	16.10	19.27	5.24	91		0	0
		D	16.10	.56	.32	93		0	0
	2	S	16.00	18.96	.42	94		0	79
		D	15.90	19.08	.46	95		0	20
	3	S	14.55	18.54	.62	95		0	14
		D	15.45	.96	.09	87		0	9
	4	S	13.65	.01	.81	96		0	2
		D	14.65	.62	.46	92		0	2
	5	S	13.40	17.09	.69	92		0	4
		D	14.30	18.37	.13	86		0	0
	7	S	12.95	17.30	.86	94		0	14
		D	14.20	.85	.78	96		0	4
	8	S	14.65	14.01	.62	90		0	91
		D	13.10	.34	.43	85		0	93
2. viii	1	S	16.20	18.86	5.31	92		9	0
		D	16.70	19.28	.34	94		14	0
	2	S		15.14				18	62
	3	S	14.60	11.89	6.32	99		6	122
		D	15.80	17.88	4.93	84		29	29
	4	S	14.10	11.96	6.49	100		14	146
		D	16.15	18.70	3.41	59		24	21
	5	S	14.25	12.58	6.40	100		15	122
		D	15.70	17.54	3.72	63		22	129
	7	S	12.75	7.33	6.11	87		22	385
		D	14.40	11.80	.12	95		24	163
	8	S	13.50	4.29	5.18	73		22	670
		D	14.65	6.24	4.88	71		29	450
3. viii	5a	S	13.90	8.84	6.38	95		0	79
		D	16.40	15.73	4.11	69		15	14
	9	S	14.20	2.60	5.50	77		0	900
		D	15.20	.73	.61	79		18	670

·o	O_2	O_2 %	pH	PO_4-P	NO_3-N
81	6.15	84		0	900
81	5.78	83			900
83	.89	79		0	670
86	.84	83		0	900
88	.76	79		0	670
91	.59	79		0	900
03	6.36	91		0	900
45	5.63	78		0	900
51	.79	81		0	900
89	5.56	99		0	9
56	.34			0	9
88	.80	101		0	50
67	.70	98		0	19
54	6.22	99		0	83
58	5.35	93		0	9
10	6.45	103		0	37
84	2.53	44		11	29
08	6.34	98		0	103
58	1.86	32		5	53
49	5.51	83		0	200
16	1.34	23		0	50
14	5.25	77		0	200
27	.55	86		0	116
74	4.75	68		0	220
91	.30	62		0	335
53	5.85	91		0	37
88	3.23	52		24	94
59	.90	57		0	200
59	4.08	58		0	385
52	5.03	73		13	200
55	4.15	59		1	265
51	.33	63		0	175
53	.10	58		0	670
40	.26	62		0	125
58	.05	57		0	1350
67	.36	63		0	128
77	.55	64		0	335
88	.75	68		0	99
88	.90	69		0	99

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
27.ix	1	S	18.30	18.62	5.10	92		0	9
		D	17.45	19.38	.28	94		0	4
	2	S	18.95	14.46	.55	96		0	11
		D	18.80	.42	.20	90		0	9
	3	S	16.15	12.56	.43	88		0	4
		D	17.50	18.23	4.74	84		0	4
	4	S	17.20	12.18	5.86	96		0	4
		D	16.90	18.48	3.22	56		0	4
	5	S	18.90	11.71	6.02	101		0	4
		D	17.10	17.63	1.23	21		0	9
	6	S	13.90	10.55	5.50	83		0	9
		D	17.65	17.27	2.42	42		0	9
	7	S	16.00	7.43	4.82	73		0	127
		D	19.70	10.00	5.95	100		0	39
	8	S	18.15	7.67	4.74	75		0	135
		D	19.30	.76	.74	77		0	200
28.ix	5a	S	10.80	0.30	5.14	81		0	29
		D	18.60	.39	4.69	71		0	46
	9	S	22.40	3.99	3.59	59		0	185
		D	21.00	4.02	6.22	46		0	500
	9a	S	21.50	2.28	5.58	89		0	108
		D	20.00	.28	.59	87		0	102
	10	S	21.50	.02	4.70	75		0	70
		D	19.70	.05	.95	76		0	78
	11	S	21.80	1.85	3.66	58		0	89
		D	19.75	.96	.51	54		0	115
	12	S	21.10	.66	.59	57		0	111
		D	19.35	2.05	2.80	43		0	122
	13	S	21.50	.10	3.82	61		0	50
		D	19.70	.21	.60	56		0	116

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
30. x	1	S	20.45	18.84	5.41	101		0	0
		D	19.30	19.73	.21	96		0	0
	2	S	20.20	18.79	4.98	93		0	0
		D	20.65	.83	.88	91		0	0
	3	S	21.70	16.56	5.30	99		0	0
		D	19.90	17.23	.06	92		0	0
	4	S	20.75	16.13	.21	95		0	2
		D	18.60	19.13	3.51	64		0	2
	5	S	21.15	16.10	6.52	120		0	2
		D	19.90	18.11	2.29	42		0	3
	5a	S	23.10	15.09	5.29	99		0	9
		D	21.90	.43	.49	101		0	2
	6	S	20.90	.71	4.60	84		0	5
		D	19.10	18.19	1.51	27		0	13
	7	S	20.75	14.36	4.49	80		0	13
		D	21.60	15.05	3.69	68		0	98
	8	S	21.85	11.42	.21	57		0	78
		D	22.35	.92	.61	64		0	78
	9	S	22.30	7.03	4.70	80		0	86
		D	20.00	.43	.52	74		0	9
	9a	S	23.80	4.63	.99	85		0	13
		D	21.90	6.10	5.02	84		0	0
	10	S	23.00	3.28	4.61	76		0	295
		D	21.75	6.57	1.83	31		0	9
	11	S	24.00	2.21	3.50	58		0	29
		D	21.70	.68	.81	61		0	9
	12	S	23.00	.22	.41	56		0	43
		D	21.20	.22	.52	56		0	29
	13	S	23.00	.31	.68	60		0	47
		D	21.05	.31	.40	54			

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
30. xi	5a	S	24.80	17.42	4.98	96		0	0
		D	22.80	.54	2.20	42		0	0
	9	S	24.90	10.56	3.80	70		0	51
		D	24.80	.55	4.30	79		0	51
	9a	S	25.50	8.28	.45	81		0	3
		D	25.40	.44	.52	82		0	3
	10	S	26.00	6.35	.63	83		0	0
		D	24.80	8.44	1.11	20		35	12
	11	S	25.90	4.67	4.04	71		0	0
		D	24.30	.97	3.84	66		0	0
	12	S	25.50	2.63	4.42	76		0	0
		D	24.20	.67	5.05	85		0	0
	13	S	25.40	.36	4.52	77		0	0
		D	24.50	.34	.20	70		0	2
1. xii	1	S	22.45	19.09	.80	93		0	0
		D	22.30	21.04	5.17	103		0	0
	2	S	22.80	18.55	4.99	97		0	3
		D	23.95	.44	5.25	104		0	0
	3	S	22.25	.45	.02	96		0	0
		D	22.10	19.32	4.49	87		0	0
	4	S	22.20	18.31	.83	92		0	0
		D	22.30	19.43	3.10	60		0	0
	5	S	22.35	17.72	.63	69		0	0
		D	21.60	18.46	.61	68		0	0
	6	S	22.45	17.54	4.60	88		0	0
		D	23.15	.77	.85	94		0	0
	7	S	22.20	16.26	.65	87		0	0
		D	22.95	17.05	.05	77		0	0
	8	S	23.90	14.11	3.52	66		0	5
		D	24.00	.69	.59	68		0	3

O_2	O_2 %	pH	PO_4-P	NO_3-N
.90	97		0	9
.09	102		0	5
.88	96		0	5
.88	97		0	5
.19	103		0	5
.69	92		0	5
.77	94		0	2
.78	94		0	5
.67	92		0	2
.01	77		0	2
.71	93		0	2
.51	87		0	5
.31	85		9	2
.49	68		0	2
.24	64		0	12
.12	62		12	69
.19	105		0	0
.17	102		0	0
.61	91		0	2
.18	101		0	2
.85	75		5	2
.08	78		0	2
.73	85		11	2
.02	56		39	2
.86	72		0	0
.02	73		3	0
.49	89		0	0
2.82	51		0	2
.41	76		0	2
.50	76		0	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1945									
10. ii	1	S	24. 10	20. 20	4. 40	89		0	0
		D	22. 80	.30	.67	92		0	0
	2	S	24. 00	.15	.45	90		0	0
		D	23. 35	.20	.29	85		0	0
	3	S	24. 50	.03	.42	90		0	0
		D	23. 50	.17	.42	88		0	0
	4	S	24. 30	.07	.43	95		0	0
		D	23. 25	.11	.66	92		0	0
	5	S	23. 60	18. 46	.56	87		0	0
		D	23. 45	19. 40	.71	93		0	0
	6	S	23. 80	20. 06	5. 32	106		0	0
		D	23. 40	19. 75	3. 12	62		3	0
	7	S	22. 50	20. 08	4. 52	89		2	0
		D	22. 45	19. 77	.35	85		0	0
	8	S	27. 20	20. 18	5. 58	119		0	0
		D	24. 45	.08	4. 46	90		6	0
11. ii	5a	S	25. 80	19. 94	5. 39	112		0	0
		D	24. 90	20. 06	2. 56	52		0	0
12. ii	9	S	25. 50	17. 56	4. 19	84		2	0
		D	25. 40	.43	.12	82		17	15
	9a	S	24. 10	16. 53	.20	81		6	0
		D	24. 40	.60	.12	80		4	0
	10	S	25. 00	13. 49	.75	90		33	0
		D	24. 60	.72	3. 64	69		41	0
	11	S	25. 00	12. 07	.74	70		49	0
		D	25. 20	.17	4. 74	89		14	0
	12	S	24. 90	8. 03	3. 60	65		0	0
		D	25. 30	9. 90	2. 07	38		0	0
	13	S	24. 70	4. 00	4. 12	70		0	0
		D	24. 45	3. 97	.30	73		0	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1945									
26. vii	1	S	16.05	18.35	5.29	91		0	5
		D	16.15	19.12	.05	88		0	0
	2	S	14.30	7.00	.04	73		0	51
		D	16.10	18.60	4.96	86		0	0
	3	S	13.35	1.57	.31	59		0	63
		D	16.05	17.98	.88	84		0	0
	4	S	13.40	1.29	.20	56		0	68
		D	16.80	18.86	0.11	2		11	25
	5	S	13.15	1.19	5.19	70		0	63
		D	16.05	16.57	0.35	6		0	90
	6	S	13.10	1.22	4.17	56		0	85
		D	15.70	14.94	0.99	16		19	70
	7	S	12.85	1.43	3.18	42		0	500
		D	12.95	2.17	4.85	65		0	500
	8	S	12.60	1.59	5.89	77		0	380
		D	12.65	.61	4.32	57		0	530
27. vii	5a	S	13.40	0.56	5.96	82		29	85
		D	15.50	13.98	0.00	0		40	48
	9	S	12.25	1.12	5.59	74		0	380
		D	12.30	.12	6.06	81		0	380
	10	S	12.90	.18	4.93	66		0	330
		D	12.90	.18	.53	61		0	380
	12	S	12.70	.30	5.77	78		0	450
		D	12.70	.34	.96	80		0	330
	13	S	12.40	.14	6.66	89		0	450
25. x	2	S	18.35	12.72	5.35	90		0	12
		D	18.25	15.61	4.81	84		11	12
	3	S	17.90	8.94	.96	80		0	0
		D	18.35	18.23	0.79	14		11	0
	4	S	18.20	8.58	3.99	64		0	0
		D	18.25	.53	0.66	11		15	15
	5	S	18.35	.54	.59	10		0	0
		D	17.20	17.17	1.03	18		9	110
	6	S	18.40	6.87	5.78	92		0	0
		D	17.05	15.35	0.33	6		6	200
	7	S	18.45	0.15	5.45	80		29	12
		D	19.00	13.00	1.07	18		2	110
	8	S	19.85	1.63	4.87	75		14	148
		D	19.60	3.14	.60	71		16	62

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1945									
26. x	5a	S	19.65	4.14	5.98	94		0	0
		D	17.00	7.86	0.11	17		0	104
	9	S	19.05	1.81	5.38	82		0	0
	9a	S	19.40	.67	.03	77		0	25
	10	S	21.10	4.60	4.55	74		0	38
		D	19.70	1.73	3.79	58		0	68
	11	S	19.50	.70	.97	61		0	62
	12	S	18.70	.79	.50	53		0	15
		D	18.60	.81	.65	55		0	15
	13	S	18.25	.84	.77	57		0	5
		D	18.10	.84	.53	53		0	5
1946									
28. ii	1	S	21.70	19.17	5.53	106		0	0
		D	21.25	20.27	.04	97		0	0
	2	S	21.40	19.96	2.20	42		0	0
		D	21.35	.92	4.65	89		0	0
	3	S	22.10	.45	5.03	97		13	0
		D	21.80	.82	.03	98		43	0
	4	S	22.50	.45	4.95	96		19	0
		D	21.35	.79	.50	87		13	0
	5	S	22.60	.42	.97	97		0	0
		D	21.50	.37	.00	76		19	0
	6	S	22.00	.19	.30	83		0	0
		D	21.50	.27	.05	77		0	0
	7	S	21.40	18.69	.00	76		0	53
		D	21.30	19.25	2.55	49		15	55
	8	S	22.30	16.34	3.50	66		9	390
		D	21.95	17.56	2.54	48		9	450
1. iii	9	S	23.30	14.30	3.80	71		21	295
		D		.48				20	295
	9a	S	24.50	12.34	5.60	104		22	0
	10	S	24.50	10.18	.10	93		35	0
		D	24.00	12.51	4.13	76		22	105
	11	S	25.40	6.99	.70	84		19	0
		D		.71				20	0
	12	S	23.70	4.45	.34	73		0	0
		D	25.50	6.46	3.97	71		0	0
	13	S	23.15	1.21	6.70	108		0	5
		D	23.00	.14	3.70	60		0	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
19. viii	5a	S	13.90	0.22	5.82	79		6	57
		D	13.90	.22	6.03	82		5	55
	9	S	13.70	.61	5.98	81		5	165
		D	13.60	.61	.85	79		3	165
	10	S	13.20	.66	6.47	87		6	180
		D	13.10	.66	.47	87		8	160
	12	S	13.20	.71	.07	82		6	155
		D	13.20	.71	.50	88		5	160
	13	S	13.20	.76	.35	86		5	170
		D	13.10	.76	.10	82		5	170
20. viii	1	S	15.60	10.63	5.80	92		3	74
		D	15.90	19.66	.90	103		0	11
	2	S	13.60	0.51	.95	82		1	420
		D	13.70	.56	.85	78		0	420
	3	S	13.95	.66	6.03	82		0	135
		D	13.55	.51	.14	83		0	125
	4	S	13.90	.53	.10	83		0	120
		D	16.50	12.16	1.72			3	150
	5	S	13.80	0.58	5.95	81		6	140
		D	13.40	.51	6.10	82		8	140
	6	S	13.40	.74	.30	85		8	135
		D	12.75	.66	.25	83		11	140
	7	S	13.60	.66	.20	84		5	180
		D	13.55	.66	.20	84		5	160
	8	S	13.10	.61	.25	84		3	135
		D	13.10	.61	.30	85		3	120
16. ix	5a	S		0.67	5.86			22	76
		D		1.39	.60			22	73
	9	S	16.30	.22	4.71	68		27	260
	10	S	15.90	.19	5.18	74		6	140
		D	15.40	.14	.12	72		6	150
	11	S	15.80	.19	4.38	62		8	220
	12	S	15.50	.29	5.20	74		11	170
	13	S	14.90	.34	.40	76		8	160
18. ix	1	S	19.00	13.37	.63	97		7	45
		D	16.20	19.23	.18	91		10	8
	2	S	16.10	3.24	6.10	89		5	170
		D	16.00	6.25	5.81	88		1	200

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
18. ix	3	S	15.90	1.94	6.14	88		1	54
		D	16.10	16.13	5.12	86		2	48
	4	S	15.95	1.73	6.06	87		2	150
		D	16.80	18.28	3.02	53		10	92
	5	S	16.50	1.50	5.56	80		6	185
		D	16.00	15.87	1.93	32		14	220
	6	S	16.65	1.44	5.15	75		8	220
		D	15.80	15.83				8	470
	7	S	16.45	1.19	4.97	72		8	245
		D	15.80	10.44	2.32	36		8	245
	8	S	17.60	1.08	5.18	76		7	185
		D	17.30	.19	.25	77		8	185
1947									
4. iii	1	S	22.80	20.31	5.07	100		1	8
		D	22.30	.26	.00	98		0	6
	2	S	22.80	19.85	4.78	94		1	11
		D	23.35	.97	.43	88		1	17
	3	S	23.40	.67	.78	95		0	8
		D	23.30	.67	.90	97		1	6
	4	S	23.20	.67	.84	96		0	2
		D	23.10	20.16	.52	90		4	11
	5	S	22.85	19.53	.58	90		1	6
		D	22.70	.57	.30	84		1	2
	5a	S	25.70	.09	.73	97		4	5
		D	24.10	.14	3.84	76		5	5
	6	S	22.90	18.99	4.90	96		2	8
		D	22.90	.99	.78	93		0	6
	7	S	21.95	.26	.52	86		1	14
		D	22.00	.74	.44	85		0	14
	8	S	23.30	16.05	.34	83		4	49
		D	23.30	17.03	.27	82		2	165
	9	S	27.50	13.48	.85	96		0	43
	9a	S	28.20	12.63	5.88	117		1	13
	10	S	28.90	10.54	.55	109		1	5
		D	28.00	11.34	4.32	84		0	8
	11	S	29.30	6.83	.65	88		0	8
	12	S	24.80	3.43	.80	82		0	11
	13	S	27.20	1.44	3.96	69		0	13

	O_2 %	pH	PO_4-P	NO_3-N
.7	111		1	5
8	85		0	5
3	83		3	38
6	89		3	13
6	93		0	11
			2	11
73	82		3	8
70	80		1	5
40	57		0	11
10	101		0	5
41	106		0	2
06	100		0	5
99	98		0	2
18	103		0	5
.18	102		0	5
.33	106		0	2
.32	85		0	8
.38	106		0	5
.10	101		0	5
.33	105		2	8
.50	87		1	11
.92	97		0	8
.14	61		0	2
.50	90		3	17
.70	74		2	8
.77	89		0	2
.62	86		0	2
.81	84		0	58
5.08	89		1	43
.37	93		0	31
4.43	88		1	50
5.08	86		0	37
4.87	79		0	8
.21	66		0	0
.77	90		2	6
.95	94		2	6
.87	92		2	6
.68	89		0	6

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
15. iv	3	S	20.40	20.01	4.87	92		2	14
		D	20.40	19.99	.87	92		2	8
	4	S	20.20	.77	5.15	97		0	8
		D	19.80	.96	4.62	86		0	11
	5	S	19.90	.70	5.02	94		0	6
		D	19.90	.67	.15	96		0	6
	6	S	19.55	.38	.37	100		0	6
		D	19.40	.62	3.56	66		2	11
	7	S	19.80	.07	5.20	88		0	11
		D	19.45	.48	4.46	83		0	8
	8	S	20.40	17.73	5.31	98		0	31
		D	20.00	18.02	.15	95		2	28
12. v	5a	S	19.90	14.89	5.54	95		2	95
		D	19.10	18.36	.60	102		2	17
	9	S	19.00	4.50	4.25	66		9	510
	9a	S	19.10	.07	.67	73		4	575
	10	S	18.70	3.61	5.70	88		4	575
		D	20.20	4.57	4.28	68		6	575
	11	S	18.70	3.29	5.60	86		4	575
	12	S	18.25	.69	4.75	84		0	670
	13	S	18.20	.61	.94	87		0	670
14. v	1	S	19.60	19.53	.98	93		0	8
		D	19.20	.51	.79	89		1	11
	2	S	19.30	.02	.68	86		1	20
		D	19.30	18.99	5.04	92		0	20
	3	S	18.20	.55	4.91	88		0	26
		D	19.00	.70	.91	90		0	26
	4	S	18.65	.14	.04	73		0	28
		D	19.40	.83	3.70	68		1	22
	5	S	18.10	16.45	5.27	92		2	41
		D	18.30	.41	.34	94		2	43
	6	S	18.10	15.97	.07	88		0	20
		D	18.50	18.07	3.70	66		0	17
	7	S	18.10	16.36	4.50	79		0	46
		D	18.90	.92	3.53	63		1	41
	8	S	17.70	12.37	4.57	76		4	195
		D	17.80	.57	.50	75		5	195

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
16. vi	5a	S	17.70	4.68	4.22	64		17	150
		D	17.60	15.22	3.98	68		5	53
	9	S	17.20	0.56	4.16	60		42	500
	9a	S	17.30	.66	.16	61		39	340
	10	S	17.10	.77	.47	65		23	405
		D	17.10	.64	.37	63		21	500
	11	S	17.70	.61	.04	59		23	405
	12	S	16.90	.77	.65	67		17	340
	13	S	16.30	.69	.73	67		19	340
17. vi	1	S	19.20	18.68	.89	89		0	11
		D	19.60	19.48	.99	93		0	8
	2	S	17.70	10.17	5.02	84		8	115
		D	18.70	17.36	4.94	88		5	26
	3	S	17.45	6.71	5.11	79		2	140
		D	18.60	18.16	4.74	84		2	17
	4	S	17.40	5.85	5.11	79		14	140
		D	16.95	18.21	3.81	67		0	50
	5	S	17.00	4.94	4.77	72		19	150
		D	17.40	16.13	.60	79		4	44
	6	S	17.30	4.53	.60	70		23	180
		D	17.50	15.45	.77	82			47
	7	S	17.70	7.64	.28	68		26	
		D	17.50	12.70	.60	76		28	
	8	S	17.40	1.69	.08	60		31	300
		D	17.60	3.81	3.39	51		28	165
17. vii	1	S	16.75	18.75	5.90	103		0	25
		D	16.90	19.20	.38	95		2	31
	2	S	14.40	2.05	6.18	86		18	255
		D	15.70	8.52	.09	94		16	192
	3	S	14.10	0.85	.27	86		20	255
		D	16.10	15.33	5.42	90		6	95
	4	S	14.10	0.82	6.15	84		18	286
		D	17.25	13.95	4.53	76		13	286
	5	S	14.10	0.70	6.15	84		15	228
		D	16.90	16.44	4.10	70		11	255
	6	S	14.15	0.70	5.79	79		14	255
		D	14.25	1.46	.68	79		16	326
	7	S	13.85	0.92	.74	78		14	255
		D	13.80	.82	.74	78		14	326

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
17. vii	8	S	13.80	0.90	5.92	81		16	326
		D	13.80	.77	.90	80		16	228
18. vii	5a	S		.41	.74			19	55
		D		1.79	.15			20	255
	9	S	13.30	0.72	.42	73		17	286
	9a	S	13.70	.72	4.92	67		17	286
	10	S	13.50	.75	5.51	75		16	255
		D	13.40	.75	.33	72		14	326
	11	S	13.70	.72	.26	83		12	286
	12	S	13.10	.87	.79	78		15	326
		D	13.10	.82	.61	76		15	326
	13	S	12.90	.90	6.09	82		12	255
		D	12.90	.85	.09	82		10	286
18. viii	5a	S	14.40	2.36	6.12	86		8	80
		D	16.60	16.39	0.00	0		40	150
	9	S	13.80	1.18	5.64	77		40	76
	9a	S	13.40	.28	.77	78		18	84
	10	S	13.15	.11	.92	80		14	53
		D	12.95	.13	.77	78		18	47
	11	S	13.80	.03	.92	81		18	50
	12	S	12.60	.44	.98	80		3	18
	13	S	12.50	.59	6.12	82		1	44
19. viii	1	S	15.20	18.16	5.55	94		0	0
		D	15.30	.65	.64	96		6	0
	2	S	15.45	17.75	.70	97		3	34
		D	15.40	18.06	.48	93		5	3
	3	S	15.45	15.36	.48	91		3	55
		D	15.45	16.83	4.90	82		6	65
	4	S	15.40	13.87	5.04	82		5	76
		D	16.90	17.81	3.85	56		11	84
	5	S	14.25	3.78	6.40	91		6	65
		D	17.10	17.84	1.43	25		13	144
	6	S	14.00	3.63	6.12	86		5	88
		D	14.30	4.32	5.64	80		7	120
	7	S	13.70	3.07	6.06	84		6	95
		D	13.95	.43	5.70	80		6	95
	8	S	13.90	1.98	.42	75		21	76
		D	13.80	.93	.77	79		34	76

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
24. ix	9	S	17.00	0.82	4.55	66		57	69
	9a	S	18.30	.90	5.37	80		57	45
	10	S	17.60	.90	4.82	71		43	53
		D	17.40	.90	.82	70		40	61
	11	S	16.90	.87	.82	70		32	51
	12	S	16.70	1.18	5.00	72		28	22
	13	S	16.20	.28					
25. ix	2	S	17.60	7.94	6.36	100		12	25
		D	17.50	10.03	.15	99		10	42
	3	S	17.40	6.26	.36	98		11	11
		D	16.90	11.30	.15	99		14	11
	4	S	18.10	5.90	.61	103		10	3
		D	16.90	18.65	5.16	91		14	11
	5	S	17.90	4.70	6.09	94		11	17
		D	16.60	17.78	1.86	32		13	125
	5a	S	17.40	4.48	5.95	90		20	6
		D	17.40	16.21	1.07	18		30	145
	6	S	17.50	4.43	5.88	89		14	25
		D	17.00	14.76	2.60	44		15	125
	7	S	17.70	3.94	4.96	75		27	125
		D	17.60	9.25	3.47	56		43	105
	8	S	19.30	5.09	.88	61		30	110
		D	19.20	.65	.76	60		30	118
21. x	1	S	18.20	14.30				6	28
		D	17.50	19.28				5	28
	2	S	18.20	12.33				5	25
		D	17.80	15.19				5	28
	3	S	18.00	8.72	5.72	92		5	28
		D	17.40	18.20	4.90	86		6	20
	4	S	17.60	7.99	6.18	98		3	25
		D	17.50	18.27	2.78	49		2	49
	5	S	18.00	7.81	6.03	96		5	30
		D	17.50	17.52	1.66	29		5	48
	5a	S	18.40	4.56	5.92	90		7	30
		D	17.90	16.10	0.90	16		6	49
	6	S	18.10	7.54	5.72	91		6	30
		D	17.80	10.11	.04	82		6	34
	7	S	18.20	6.09	.43	85		4	53
		D	17.90	16.25	1.18	21		6	58

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
21. x	8	S	18.90	2.62	4.56	69		20	110
		D	18.60	4.36	.11	64		12	110
	9	S	17.90	0.82	.56	67		52	100
	9a	S	18.40	.80	.62	69		47	120
	10	S	17.80	.77	.39	64		43	69
		D	17.80	.77	.44	65		30	75
	11	S	17.90	.72	.39	64		21	58
	12	S	16.70	1.06	.39	63		20	48
	13	S	15.80	.06	.44	64		21	30
26. xi	1	S	21.45	17.49	5.27	99		2	14
		D	19.50	19.59	.41	101		1	11
	2	S	21.45	16.83	.27	98		2	30
		D	20.60	18.37	.41	101		2	17
	3	S	22.30	14.17	.27	97		2	17
		D	20.60	15.72	.27	95		2	14
	4	S	22.20	13.29	.20	94		2	14
		D	20.10	19.20	4.77	89		4	22
	5	S	22.70	12.30	5.05	91		1	11
		D	19.40	17.72	2.31	42		1	14
	5a	S	22.20	11.10	5.34	95		0	11
		D	19.60	17.49	2.31	42		0	6
	6	S	23.80	11.18	4.88	89		1	17
		D	19.70	17.47	2.13	39		0	11
	7	S	22.85	8.29	5.12	89		2	22
		D	21.95	13.89	4.62	84		1	17
	8	S	24.00	5.97	.31	74		4	48
		D	23.20	10.65	3.39	61		3	17
	9	S	22.70	1.93	4.47	72		6	14
	9a	S	23.40	.57	5.27	86		3	6
	10	S	24.00	.47	.04	83		1	8
		D	23.90	.59	.34	88		0	8
	11	S	24.00	.42	.12	84		0	8
	12	S	23.90	.73	.55	92		1	11
	13	S	22.70	.39	3.40	55		4	20

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
9.ii	5	S	24.55	18.71	4.94	99		0	11
		D	23.30	19.40	2.44	48		2	0
	9	S	27.20	12.66	7.00	137		13	11
	9a	S	26.80	11.28	5.52	105		2	2
	10	S	27.30	9.67	.80	110		7	5
	11	S	28.00	5.92	.34	98		7	8
	12	S	27.40	3.19	4.77	85		0	2
	13	S	27.00	1.60	.32	75		6	2
10.ii	1	S	23.90	19.53	.65	93		0	8
		D	23.50	.67	.65	92		0	13
	2	S	23.90	.25	.77	95		0	53
		D	24.00	.40	5.00	100		0	19
	3	S	24.00	.01	4.88	97		0	11
		D	23.90	.23	.77	95		0	5
	4	S	23.95	18.99	.81	95		2	0
		D	23.30	19.64	3.45	68		0	8
	5a	S	25.70	18.66	5.05	103		2	2
		D	24.80	.76	4.43	89		0	5
	6	S	24.30	.57	.43	88		6	16
		D	24.60	.07	.20	83		9	13
	7	S	24.80	17.34	.54	90		11	8
		D	26.10	18.37	3.89	80		13	19
	8	S	25.90	14.97	.47	68		17	32
		D	25.90	16.99	4.09	82		18	19
26.iv	9	S	18.90	15.87	5.03	89		10	42
	10	S	18.70	13.59	6.26	107		9	33
	11	S	19.20	.26	.31	109		7	26
		D	18.00	16.14	4.68	81		16	59
	12	S	21.10	10.07	5.14	88		7	8
	13	S	19.30	8.56	4.51	74		4	6
	14	S	18.10	4.77	.92	76		7	0
27.iv	1	S	20.50	19.82	5.14	97		4	0
		D	20.40	.83	.20	98		0	0
	2	S	20.10	.83	4.98	94		4	17
		D	20.00	.83	.98	93		5	11
	3	S	20.00	.84	5.09	95		3	3
		D	20.00	.83	.06	95		1	3
	4	S	18.60	.76	.44	100		0	13
		D	18.20	.76	4.98	91		1	8

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
27.iv -	5	S	18.00	19.39	5.25	95		1	0
		D	17.55	.63	4.57	82		8	0
	5a	S	17.90	.35	5.47	99		4	0
		D	18.05	.38	.44	98		1	0
	6	S	18.20	.23	.54	100		4	0
		D	17.60	.57	4.71	85		5	0
	7	S	17.80	.10	5.20	93		4	3
		D	17.60	.53	4.77	86		0	0
	8	S	18.10	17.65	5.54	98		7	24
		D	18.10	18.65	.51	99		3	8
24-	2	S	20.70	19.62	5.16	98		5	16
25.v		D	20.30	.65	.05	95		1	6
	3	S	19.10	.38	4.81	89		0	27
		D	19.00	.43	.92	90		0	30
	4	S	18.10	.09	5.51	99		0	13
		D	18.30	.26	.45	99		1	8
	5	S	18.70	18.79	.19	94		0	6
		D	17.90	19.12	.45	98		0	6
	5a	S	19.10	18.35	.25	96		0	3
		D	18.30	.68	4.49	81		0	11
	6	S	19.00	.74	5.05	92		0	6
		D	18.50	.87	4.86	88		0	8
	7	S	19.10	.74	.43	81		1	11
	8	S	18.70	16.72	.86	86		9	50
		D	18.10	17.42	.97	88		9	39
	9	S	18.70	15.80	3.75	66		15	69
	9a	S	19.40	13.92	6.05	105		6	22
	10	S	18.90	14.50	5.67	98		8	25
		D	19.90	15.60	3.07	55		11	53
	12	S	18.80	10.09	.57	59		1	11
	13	S	16.50	5.49	4.43	67		0	11

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
22-23. vi	1	S	16.30	18.96	5.28	92		7	74
		D	17.00	19.45	.31	94		3	30
	2	S	16.90	.30	.21	92		12	27
		D	16.90	.33	.21	92		9	58
	3	S	15.30	18.26	.37	91		8	84
		D	16.50	19.11	.31	93		11	78
	4	S	14.10	17.20	.37	88		5	96
		D	16.10	19.01	4.71	82		11	84
	5	S	14.20	16.40	5.95	97		7	106
		D	15.60	18.55	4.42	76		3	106
	5a	S	14.10	16.27	5.86	95		7	55
		D	15.50	18.21	4.24	72		4	47
	6	S	14.70	16.76	5.47	90		6	106
		D	15.50	18.28	4.42	75		6	78
	7	S	15.40	16.59	5.90	99		1	80
		D	15.50	18.01	4.77	81		4	74
	8	S	15.40	14.69	5.37	88		9	100
		D	15.80	16.44	4.55	76		9	78
	9	S	15.90	7.85	2.44	37		10	330
	9a	S	13.60	3.47	4.61	64		11	430
	10	S	13.30	.29	.31	60		12	350
		D	15.20	8.62	3.15	48		18	330
	12	S	12.90	3.63	1.43	20		8	350
	13	S	12.40	4.29	2.09	29		14	295
2-3. viii	1	S	16.80	17.89	5.74	100		8	24
		D	16.90	19.51	.65	100		4	0
	2	S	15.70	8.00	6.16	94		11	137
		D	15.90	12.51	5.93	95		3	75
	3	S	15.90	4.66	6.44	96		17	230
		D	16.50	18.23	5.46	95		0	12
	4	S	15.80	4.07	6.35	93		8	230
		D	15.20	18.38	4.34	74		7	22
	5	S	15.40	3.57	6.21	90		22	250
		D	15.30	17.22	3.98	67		1	50
	5a	S	14.10	0.77	6.05	83		52	175
		D	15.30	15.92	3.50	58		11	26
	6	S	15.50	3.83	5.99	87		25	250
		D	15.00	14.85	4.70	76		5	32

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
2-	7	S	15.30	1.95	5.80	82		22	350
3. viii		D	15.00	11.10	4.58	72		10	92
	8	S	14.80	2.04	5.85	82		21	450
		D	14.80	.06	.77	81		17	540
	9	S	14.30	0.88	.56	76		32	385
	9a	S	14.60	.96	.77	80		44	350
	10	S	14.20	1.16	.05	70		18	385
		D	14.10	.21	.77	79		18	450
	12	S	14.30	.75	6.05	84		18	450
	13	S	14.30	.98	.10	85		18	540
22-	1	S	16.00	12.67	6.10	99		7	260
23. ix		D	17.00	19.34	5.84	104		0	12
	2	S	15.80	8.25	7.09	109		1	80
		D	16.20	14.00	6.00	99		0	64
	3	S	15.30	5.65	7.60	112		2	80
		D	16.20	16.40	5.57	94		0	58
	4	S	16.70	5.08	8.40	127		4	58
		D	16.60	18.10	2.38	41		19	155
	5	S	16.55	3.68	7.29	108		8	155
		D	16.60	17.26	1.00	17			335
	5a	S	16.30	4.39	6.65	99		8	30
		D	16.60	14.34	1.00	17		31	155
	6	S	17.40	3.29	6.97	104		2	195
		D	16.80	12.29	4.11	67		2	195
	7	S	17.20	1.59	6.05	89		8	215
		D	16.90	6.56	5.72	88		8	135
	8	S	17.30	1.16	.01	73		12	135
		D	16.20	2.64	4.50	65		19	260
	9	S	18.20	1.13	5.80	86		15	100
	9a	S	19.60	.08	.43	83		16	96
	10	S	17.00	.08	.38	78		10	73
		D	17.00	.08	.43	79		11	73
	12	S	16.50	.26	.48	79		8	36
	13	S	16.00	.18	.73	82		6	24

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
20. x	1	S	20.30	9.74	5.72	96		1	55
		D	18.80	19.21	.96	109		1	28
	2	S	21.10	6.30	.93	98		1	155
		D	19.80	9.77	.64	94		1	55
	3	S	21.10	5.13	.97	97		1	6
		D	19.40	16.82	4.97	89		1	36
	4	S	21.20	4.77	6.98	113		0	62
		D	17.50	18.28	1.57	28		25	0
	5	S	21.90	4.72	6.62	109		2	3
		D	17.20	17.17	0.73	13		12	155
	5a	S	20.80	7.40	6.02	100		10	102
		D	17.30	16.23	0.60	10		12	145
	6	S	22.30	5.13	6.02	100		1	88
		D	17.30	16.01	0.54	9		7	0
	7	S	22.40	4.06	6.15	101		8	80
		D	17.50	14.94	0.80	13		15	74
	8	S	22.30	3.39	5.31	87		10	110
		D	20.90	7.95	3.34	56		8	58
	9	S	21.80	1.19	4.84	77		19	165
	9a	S	21.30	.14	.90	77		31	12
	10	S	21.70	.17	.97	79		17	6
		D	21.30	.14	5.04	79		31	0
	12	S	21.60	.39	3.93	62		8	9
	13	S	21.30	.44	4.31	68		6	0
1949									
12-13. i	1	S	22.60	19.14	4.93	96		11	0
		D	22.10	.72	.87	94		2	12
	2	S	23.40	18.68	5.30	104		4	9
		D	22.70	.84	.23	101		0	3
	3	S	23.30	.39	.33	104		4	0
		D	22.60	19.62	4.66	91		5	0
	4	S	23.00	18.29	5.37	104		7	6
		D	22.70	19.65	3.26	64		14	0
	5	S	24.30	17.73	5.23	103		18	0
		D	22.80	18.72	3.85	75		13	0
	5a	S	23.90	17.54	5.12	100		4	0
		D	23.70	.76	.23	104		2	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
12-	6	S	24.60	17.41	5.33	105		16	0
13.i		D	22.60	.71	.26	101		15	0
	7	S	22.80	16.00	.49	103		12	0
		D	22.90	.85	.12	97		13	6
	8	S	25.70	13.70	6.23	120		20	6
		D	25.20	.96	.40	123		17	3
	9	S	24.60	11.90	5.16	96		65	15
	9a	S	25.50	8.72	.71	104		65	9
	10	S	26.20	6.70	6.03	109		53	12
	12	S	26.30	1.58	5.66	97		0	0
	13	S	26.10	.56	.00	85		1	0
9-	1	S	23.20	20.33	5.08	101		5	0
10.iii		D	22.50	.35	.29	104		3	0
	2	S	23.00	.14	4.69	94		6	10
		D	22.60	.16	.63	90		3	0
	3	S	23.50	.00	.98	100		6	0
		D	23.20	.00	.98	99		5	0
	4	S	23.50	19.87	5.51	110		6	0
		D	22.70	.86	4.32	85		3	0
	5	S	23.40	.74	5.11	101		6	0
		D	22.90	.77	4.32	85		6	0
	5a	S	23.20	.69	5.51	108		11	0
		D	22.70	.64	4.72	93		7	0
	6	S	23.90	.59	5.64	112		7	0
		D	22.50	.56	4.58	90		10	0
	7	S	24.20	.26	5.83	115		8	0
		D	23.50	.36	4.35	86		9	0
	8	S	24.00	16.98	.37	85		15	49
		D	23.10	17.69	.06	79		13	52
	9	S	25.10	15.31	5.42	105		15	29
	9a	S	23.30	12.21	6.01	109		62	0
	10	S	24.60	11.83	.07	112		8	0
	12	S	25.50	6.06	5.79	102		3	0
	13	S	24.20	1.78	4.22	70		7	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
13-	1	S	22.30	20.03	5.16	101		4	0
14. iv		D	22.10	.09	.23	102		4	0
	2	S	22.10	.04	4.38	86		6	7
		D	22.00	.06	.32	84		5	4
	3	S	22.50	.05	.38	86		6	7
		D	22.00	.04	.19	82		5	6
	4	S	22.80	.02	5.31	104		9	0
		D	21.90	.00	3.65	71		12	0
	5	S	23.10	19.98	5.16	102		13	0
		D	21.80	.99	4.01	78		10	0
	5a	S	23.10	.87	5.44	107		5	0
		D	22.60	.91	4.84	93		11	0
	6	S	22.70	.68	5.23	102		5	0
		D	22.10	.88	.10	100		9	0
	7	S	23.10	.72	4.91	97		12	0
		D	22.00	.93	.38	85		4	0
	8	S	24.30	18.65	5.80	115		21	6
		D	23.30	19.01	4.97	98		12	6
	9	S	20.10	16.02	5.13	93		10	21
	9a	S	20.00	15.52	4.64	84		5	7
	10	S	20.20	14.21	5.10	90		12	7
	12	S	20.80	9.14	.47	93		23	0
	13	S	19.80	3.64	4.70	74		3	0
20. v	1	S	19.00	19.67	5.33	98		5	0
		D	18.70	.67	.49	101		5	0
	2	S	18.50	.61	4.95	90		5	0
		D	18.20	.63	3.90	71		4	0
	3	S	18.20	.62	4.97	91		3	0
		D	17.90	.62	2.95	90		0	19
	4	S	17.90	.72	5.55	101		2	0
		D	17.50	.63	.18	92		2	0
	5	S	17.20	.50	.40	97		0	0
		D	17.30	.68	4.93	88		0	0
	5a	S	17.30	.18	.45	80		0	0
		D	18.00	.48	3.84	61		0	0
	6	S	16.70	.12	5.40	95		0	0
		D	17.30	.50	4.60	84		2	0
	8	S	18.20	17.61	5.95	105		0	19
		D	18.20	.83	.87	104			16

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
20. v	9	S	20.70	15.98	8.08	147			0
	9a	S	18.80	.44	4.73	83			0
	10	S	19.10	14.75	.60	81			0
	12	S	18.50	9.76	5.58	91			0
	13	S	18.20	6.69	.98	94			0
15-16. vi	1	S	17.60	19.58	5.52	100		3	0
		D	17.50	.68	.62	101		0	0
	2	S	16.90	.55	.25	95		0	0
		D	16.80	.54	.22	95		4	0
	3	S	16.50	.35	.30	94		0	4
		D	16.10	.40	.30	93		0	12
	4	S	15.90	.23	.40	95		4	23
		D	15.80	.25	.25	93		4	0
	5	S	16.00	.15	.55	97		0	0
		D	15.60	.18	.00	86		0	0
	5a	S	14.70	18.90	.30	90		0	0
		D	14.70	.89	.15	87		0	0
	6	S	15.80	.85	.40	94		0	0
		D	15.90	19.19	4.55	79		0	0
	7	S	15.70	18.85	5.55	96		0	4
		D	15.70	.90	.62	97		0	0
	8	S	14.70	.01	.57	94		0	0
		D	14.90	.53	.30	90		0	0
	9	S	16.00	17.23	.10	87		0	8
	9a	S	14.90	15.37	.30	86		0	12
	10	S	14.60	14.97	4.83	78		0	0
	12	S	16.00	12.76	3.81	62		0	0
	13	S	14.90	8.94	4.36	66		0	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl.°/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1949									
3-4. viii	2	S	15.70	15.81	6.18	103		0	31
		D	15.80	16.08	5.20	96		2	53
	3	S	15.10	13.91	6.38	103		4	41
		D	16.80	18.80	5.50	94		7	25
	4	S	15.10	13.37	6.78	110		11	38
		D	16.20	18.59	4.66	81		17	8
	5	S	14.80	12.12	5.95	94		13	89
		D	16.00	17.82	3.52	48		7	41
	5a	S	15.10	5.41	6.85	100		7	105
		D	15.90	17.33	2.30	39		7	9
	6	S	15.20	13.63	5.90	95		6	73
		D	16.30	17.48	3.35	57		5	34
	8	S	15.80	4.02	6.29	92		10	347
		D	15.90	14.11	3.52	58		13	81
	9	S	15.10	2.87	5.65	85		21	363
	9a	S	14.00	.56	6.00	83		24	425
	10	S	14.90	.56	5.57	79		15	331
	12	S	14.60	3.12	.93	85		6	344
	13	S	14.70	.12	.86	83		5	275
7-8. ix	2	S	18.00	14.61	6.45	110		5	
		D	17.80	17.79	.00	105		2	
	3	S	17.40	11.23	.98	114		8	
		D	17.60	18.30	5.06	90		7	
	4	S	17.50	7.35	7.05	110		5	
		D	17.30	18.38	3.18	56		12	
	5	S	18.40	7.75	6.90	110		7	
		D	16.70	16.75	2.30	39		15	
	5a	S	18.70	5.72	6.95	109		10	
		D	16.60	16.45	0.48	8		32	
	6	S	18.10	6.19	6.50	101		11	
		D	16.90	17.11	0.31	5		28	
	8	S	18.90	1.72	4.70	72		23	
		D	17.90	5.24	2.75	43		18	
	9	S	18.30	1.46	5.50	82		17	
	9a	S	18.60	.58	.28	80		16	
	10	S	17.40	.84	.85	86		12	
	12	S	17.00	2.45	.95	87		8	
	13	S	17.10	.43	6.05	89		2	

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
5. x	1	S	18.50	19.15	5.75	105		7	0
		D	18.00	.46	.71	103		0	0
	2	S	18.40	.19	.57	101		7-18	70
		D	18.20	.39	.79	105		0-28	0
	3	S	19.50	15.51	.45	97		2	0
		D	18.40	19.98	.65	103		7	0
	4	S	19.60	14.62	6.05	106		3-15	0
		D	17.40	18.41	4.95	96		5-5	0
	5	S	19.90	14.42	5.65	100		3	0
		D	18.20	18.28	1.93	35		10	0
	5a	S	17.70	12.01	5.93	98		2-33	0
		D	18.30	15.97	.06	88		3-25	0
	6	S	20.20	13.94	.65	100		7-8	0
		D	19.00	16.64	4.74	85		5-13	0
	7	S	21.10	12.20	5.93	104		9	0
		D	21.10	.78	.54	98		7	0
	8	S	18.30	6.38	.57	88		7-35	180
		D	19.00	9.30	4.88	80		4-37	280
	9	S	18.90	7.14	.37	70		9-38	485
	9a	S	17.80	2.51	6.68	100		9	8
	10	S	18.40	.41	5.57	77		12-40	80
	12	S	17.80	1.44	.61	76		3	0
	13	S	17.50	.18	.49	73		0-28	0
1. xii	1	S	21.40	18.50	5.33	101		3	128
		D	21.30	19.58	.48	106		6	9
	2	S	21.70	17.95	.57	105		6-13	15
		D	21.70	.98	.57	105		5-14	0
	3	S	21.80	.64	.57	105		5	0
		D	21.70	19.04	.05	97		4	30
	4	S	22.90	17.34	6.90	120		5-21	0
		D	21.10	19.16	2.66	51		5-18	15
	5	S	22.30	17.17	5.48	105		3	0
		D	20.90	18.64	3.18	60		3	12
	5a	S	24.20	16.67	6.01	116		16-9	0
		D	22.90	17.31	5.00	96		8-16	94
	6	S	22.20	16.52	.70	107		4-15	86
		D	20.95	18.64	0.97	18		13-20	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
6. xii	8	S	27.00	13.84	7.15	141		0-1	0
		D	24.70	15.37	4.80	92		13-33	28
	9	S	27.45	9.77	6.01	114		31-31	79
	9a	S	26.20	7.62	.77	122		12	38
	10	S	27.00	.87	.42	119		28-34	52
	12	S	26.70	1.50	5.68	98		3	15
	13	S	26.60	.75	4.90	85		2-18	12
1950									
10-12. i	2	S	24.10	19.67	4.58	96		4-11	0
		D	23.80	.65	.65	92		0-15	0
	3	S	24.40	.18	5.70	111		0	0
		D	24.20	.38	6.31	113		0	0
	4	S	24.80	.13	.25	113		0-15	0
		D	23.90	.23	5.05	100		0-13	0
	5	S	23.80	18.79	4.78	94		0	0
		D	23.50	19.43	2.14	42		5	0
	5a	S	26.30	18.64	5.72	112		2	0
		D	25.00	.74	4.25	86		2-11	0
	6	S	24.00	.74	.70	93		18-7	0
		D	23.60	.64	.06	74		22-9	0
	7	S	23.45	17.84	.19	82		27	0
		D	24.20	18.55	3.71	74		23	0
	8	S	27.00	15.65	4.78	96		33-0	0
		D	25.80	17.62	2.67	54		24-4	53
	9	S	29.10	13.82	5.10	104		26-8	0
	9a	S	27.10	12.09	4.50	87		23	0
	10	S	28.50	11.42	6.28	112		16	0
	12	S	28.50	4.45	5.85	107		0	0
	13	S	28.80	1.85	4.95	88		5-43	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
8-	1	S	24.30	20.30	5.38	109		5	0
9.ii		D	23.70	.25	.35	108		4	0
	2	S	23.80	.11	4.79	96		3-9	8
		D	24.10	.14	.76	96		3-9	4
	3	S	24.50	.01	.97	101		4	0
		D	24.50	.09	.83	98		3	0
	4	S	25.10	19.94	5.94	122		4-17	0
		D	23.40	20.06	3.25	65		6-6	0
	5	S	24.50	19.82	5.09	103		5	0
		D	24.30	.87	4.27	86		7	0
	5a	S	24.50	.77	.92	100		4-23	0
		D	24.00	.77	.98	100		5-6	0
	6	S	24.30	.77	.98	100		6-29	0
		D	24.10	.77	.53	90		3-21	0
	7	S	24.50	.43	3.99	81		14	0
		D	24.80	.43	.99	81		14	0
	8	S	26.00	18.04	5.61	113		10-22	0
		D	25.80	.70	3.85	79		16-16	0
	9	S	28.60	16.23	7.10	146		7-22	0
	9a	S	25.90	14.53	5.25	102		11	0
	10	S	26.80	12.50	6.31	122		19-9	0
	12	S	27.50	7.24	.00	110		3	0
	13	S	26.00	2.38	4.73	82		1-4	0
13-	1	S	22.10	20.61	4.57	90		5	0
14.iii		D	21.90	.71	.72	93		8	0
	2	S	22.30	.78	.30	85		8-0	0
		D	22.10	.54	.24	84		6-3	0
	3	S	22.50	.74	.38	87		6	0
		D	22.40	.61	.38	87		6	0
	4	S	22.80	.56	.69	93		7-0	0
		D	22.60	.56	.28	85		6-0	0
	5	S	23.20	.75	.78	95		8	0
		D	22.40	.61	3.64	72		21	0
	5a	S	23.80	.78	5.10	103		14-10	0
		D	22.90	.89	4.38	86		14-1	0
	6	S	23.00	.49	5.20	103		13-19	0
		D	22.10	.73	4.38	87		15-3	0
	7	S	23.00	.54	.78	95		10	0
		D	22.50	.66	.82	96		8	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
13-14. iii	8	S	23.50	19.58	5.42	107		16-12	0
		D	22.80	20.01	.75	112		16-9	0
	9	S	24.20	16.73	3.76	73		22-29	18
	9a	S	22.30	15.64	4.43	83		23	0
	10	S	23.10	13.65	.31	79		30-9	0
	12	S	25.40	7.16	.70	84		5	14
	13	S	24.00	2.64	.52	75		5-19	5
17-18. iv	3	S	20.90	20.36	4.69	90		8	84
		D	21.10	.39	.28	82		12	49
	4	S	21.00	.58	.94	95		7-15	0
		D	21.00	.60	3.45	67		12-12	0
	5	S	21.30	.70	5.00	97		11	0
		D	20.80	.72	4.60	89		11	0
	5a	S	21.20	.04	.70	91		16-11	0
		D	21.50	21.05	.28	84		18-7	0
	6	S	20.80	20.69	.66	89		10-6	0
		D	20.80	.67	.37	84		18-5	0
	7	S	21.20	.44	.63	90		38	0
		D	20.50	.59	.60	88		13	29
	8	S	21.90	19.48	.43	85		16-20	46
		D	21.20	.64	.31	82		18-20	180
	9	S	22.90	18.65	.24	84		21-5	575
	9a	S	22.10	17.20	5.84	110		29	200
	10	S	21.90	15.92	.06	94		28-15	35
	12	S	22.90	10.28	.16	91		8	0
	13	S	21.70	5.91	4.40	73		11-10	16

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
23-	1	S	19.50	19.72	5.25	98		0	0
24. V		D	19.20	.69	.35	99		0	0
	2	S	18.40	.67	.05	92		0-21	0
		D	18.80	.69	.03	92		0-9	0
	3	S	18.20	.55	.30	96		0	27
		D	19.60	.59	.10	95		0	21
	4	S	17.40	18.94	7.15	128		0-34	0
		D	18.20	19.84	3.65	67		0-22	0
	5	S	17.80	.20	7.55	135		0	0
		D	18.10	.69	4.76	86		0	0
	5a	S	18.50	.19	6.45	118		0-30	0
		D	17.60	.55	4.06	73		17-0	0
	6	S	17.40	17.72	7.88	137		3-37	0
		D	18.30	19.84	2.42	45		10-15	21
	7	S	18.40	18.33	7.36	132		5	37
		D	18.50	17.89	5.50	98		8	42
	8	S	19.30	.14	8.10	145		13-37	77
		D	19.20	18.60	3.44	63		13-30	10
	9	S	18.40	10.93	6.10	99		14-96	380
	9a	S	19.70	11.14	3.09	53		14	355
	10	S	17.70	7.13	.18	50		19-93	520
	12	S	16.20	3.14	2.48	36		11	695
	13	S	16.30	2.99	4.26	62		4-81	800
12-	1	S	18.20	19.20	5.30	96	8.23	2	0
13. vii		D	18.50	.55	.30	97	.20	3	0
	2	S	15.70	15.97	6.86	116	.33	7-8	0
		D	16.30	16.52	.38	108	.28	0-10	0
	3	S	14.20	12.68	7.30	113	.37	4	71
		D	17.80	19.18	5.16	92	.21	3	0
	4	S	13.80	12.05	7.12	109	.37	7-4	82
		D	15.90	19.04	3.77	65	.11	6-8	0
	5	S	14.30	12.04	7.15	110	.32	7	46
		D	15.10	18.18	1.65	28	7.91	5	0
	5a	S	14.20	14.09	6.35	101	8.19	6-17	76
		D	15.10	17.73	1.08	18	7.74	6-18	0
	6	S	14.40	12.42	7.08	110	8.26	4-29	78
		D	15.30	17.05	0.50	8	7.78	7-8	0
	7	S	14.30	9.03	6.15	93	.74	11	360
		D	15.80	17.07	2.60	44	.88	7	0

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1950									
12-	8	S	15.40	10.05	5.07	79	7.61	3-43	285
13.vii		D	15.20	14.95	3.37	55	.89	14	0
	9	S	16.20	9.00	1.68	26	.44	15-37	330
	9a	S	15.50	4.01	5.46	79	.33	19	425
	10	S	14.30	3.07	.13	72	.31	19-17	490
	12	S	14.50	.10	.16	73	.51	3	225
	13	S	13.60	2.52	.57	77	.41	3-13	380
8-	1	S	14.90	16.21	6.36	113		2	25
9.viii		D	15.40	19.40	5.48	95		0	0
	2	S	13.80	12.16	7.50	116		2-14	85
		D	14.60	16.40	6.55	108		0-9	23
	3	S	13.00	10.04	7.70	114		6	83
		D	16.50	.64	.36	120		3	80
	4	S	12.80	9.01	.36	107		5-22	160
		D	15.10	18.03	5.40	91		0-11	10
	5	S	12.70	8.37	7.45	108		4	270
		D	14.90	15.42	3.79	62		3	17
	5a	S	14.40	10.33	6.80	105		12-15	46
		D	15.00	15.31	1.99	34		15-8	46
	6	S	12.30	7.64	7.17	102		5-18	300
		D	15.40	17.46	1.32	22		28-7	0
	7	S	12.50	5.63	6.88	96		10	336
		D	14.30	15.12	3.84	62		3	7
	8	S	13.80	4.75	6.05	86		20-4	388
		D	15.40	13.33	3.63	59		7-10	25
	9	S	13.70	2.93	6.45	90		13-20	330
	9a	S	13.70	.72	.68	93		17	320
	10	S	13.90	.64	7.05	98		13-24	330
	12	S	12.40	3.03	6.55	88		3	220
	13	S	11.80	2.96	.80	91		2-24	240

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1950									
19-	1	S	17.20	16.07	5.76	99	8.29	3	0
20.ix		D	17.30	19.33	.64	101	.31	3	0
	2	S	17.20	15.23	.93	101	.27	2-11	0
		D	17.00	.87	.55	93	.31	0-13	0
	3	S	17.30	11.37	6.28	102	.29	3	0
		D	16.90	18.75	5.55	98	.27	0	0
	4	S	17.70	10.93	7.00	115	.30	2-20	0
		D	17.00	18.78	4.67	82	.21	4-8	0
	5	S	17.80	10.26	6.75	110	.28	3	0
		D	17.30	18.30	1.15	20	7.99	8	20
	5a	S	18.00	9.40	6.68	108	8.04	10-19	0
		D	17.10	17.22	0.50	9	7.80	19-10	0
	6	S	16.90	9.99	5.87	94	8.09	8-18	0
		D	17.10	17.95	0.85	15	7.84	17-16	0
	7	S	16.60	7.24	5.51	85	.77	13	110
		D	17.40	17.42	0.60	10	.79	12	0
	8	S	18.70	2.84	4.73	72	.36	28-13	216
		D	17.80	10.12	3.15	51	.67	17-14	58
	9	S	19.60	1.28	5.26	80	.17	29-20	173
	9a	S	17.80	.14	.20	77	.03	51	130
	10	S	18.90	.32	.00	76	6.99	23-12	125
	12	S	17.40	.66	4.98	74	7.19	11	64
	13	S	16.90	.85	5.36	78	.19	12-7	41
18-	2	S	18.10	12.59	5.77	97	8.19	4-3	0
19.x		D	17.90	15.10	.88	101	.11	4-3	0
	3	S	17.80	12.16	.94	99	.13	5	0
		D	17.60	18.08	.05	90	.11	3	0
	4	S	18.30	11.49	6.10	102	.09	6-6	0
		D	17.70	18.41	3.95	70	.05	4	0
	5	S	19.30	10.06	5.36	89	.03	4	0
		D	18.00	17.19	2.00	35	7.83	3	255
	5a	S	18.50	9.67	6.15	100	.98	5-4	0
		D	17.80	17.50	0.40	7	.61	6-3	30
	6	S	18.40	9.31	5.85	95	8.01	2-13	0
		D	17.90	17.04	2.04	36	7.79	11-4	0
	7	S	18.40	6.10	5.80	92	.80	9	0
		D	18.00	12.98	3.15	53	.83	13	5
	8	S	21.80	3.52	4.64	76	.58	12-12	835
		D	21.80	5.62	.10	68	.56	15-12	710

Location: SWAN RIVER

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
18-	9	S	22.60	1.02	6.43	103	7.25	20-17	750
19.x	9a	S	22.90	0.88	.27	101	.10	24	25
	10	S	21.50	.93	5.33	84	6.68	27-17	350
	12	S	21.60	1.33	4.64	74	7.11	10	68
	13	S	20.30	.38	5.01	78	.08	4-9	68
15.xii	1	S	21.80	18.31	5.30	101	8.21	12	0
		D	21.00	.33	.40	102	.22	8	0
	2	S	21.80	.05	.40	102	.21	11-20	0
		D	21.70	.05	.44	103	.21	9-16	0
	3	S	21.70	17.53	.48	104	.21	7	0
		D	21.30	19.49	.05	96	.22	7	0
	4	S	21.60	17.40	.28	99	.19	11-19	0
		D	21.50	18.29	4.85	92	.18	8-28	0
	5	S	22.20	16.79	5.12	96	.19	11	0
		D	20.80	18.42	2.30	43	7.99	12	0
	5a	S	22.70	16.16	5.02	94	8.16	13-27	0
		D	22.40	.15	.05	94	.18	14-19	0
	6	S	22.10	.20	4.92	91	.15	15-15	0
		D	21.20	18.19	1.74	33	7.88	21-20	0
	7	S	21.80	15.16	4.45	82	8.12	14	44
		D	21.60	.91	.15	77	.12	17	0
	8	S	24.40	18.95	.35	87	7.82	15	24
		D	23.80	.90	.80	95	8.07	21-19	44
	9	S	25.00	8.02	5.48	98	7.97	33-12	0
	9a	S	24.10	6.58	4.20	73	.63	15	0
	10	S	24.20	4.86	.95	85	.47	11-18	0
	12	S	24.70	1.24	5.42	90	.31	6	0
	13	S	24.30	.12	4.85	80	.22	11-18	0

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
4. ix	1	S	17.90	7.36	5.46	86		0	2
		D	16.90	16.31	3.81	82		0	2
	1a	S	17.10	7.21	5.96	93		0	2
		D	16.20	8.96	.26	84		11	9
	2	S	16.25	7.86	.57	86		0	2
		D	17.00	10.75	.53	89		0	9
	3	S	18.10	5.85	.84	91		0	2
		D	18.50	8.29	4.72	76		0	4
	4	S	16.40	10.96	5.60	89		0	11
		D	16.45	.76	.45	87		0	4
	5	S	17.60	0.93	6.42	94		0	4
		D	14.95	.93	5.03	70		0	2
	7	S	16.55	10.96	.00	80		0	2
		D	16.75	.92	.06	81		0	11
	8	S	18.30	0.81	.95	88		0	4
		D	15.10	.87	2.68	37		0	2
	9	S	15.90	1.03	6.21	88		0	2
1945									
1. ii	1	S	23.30	20.21	5.21	104		0	0
		D	22.20	.16	.04	100		0	0
	1a	S	22.50	.77	4.82	95		0	0
		D	21.95	.22	3.92	76		0	0
	2	S	20.80	.85	5.24	101		0	0
		D	20.90	.93	4.90	94		0	0
	3	S	21.20	.22	5.15	99		0	0
	4	S	22.00	.78	4.14	79		0	0
		D	21.70	.70	.83	94		0	0
	5	S	22.30	11.91	.73	84		0	0
		D	23.90	18.56	2.84	54		0	15
	7	S	21.80	20.39	4.62	90		0	0
		D	21.45	.50	.79	93		0	0
	8	S	26.20	8.31	5.12	94		0	0
		D	29.30	14.69	2.64	57		0	0
	9	S	25.40	0.43	4.16	70		0	0

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1945									
6. viii	1	S	14.30	4.63	5.14	74		0	670
		D	15.25	17.27	.30	89		0	530
	1a	S	13.80	1.81	6.60	93		0	530
		D	13.70	4.26	.33	89		0	670
	2	S	13.55	1.44	5.53	76		0	670
		D	13.55	6.39	4.96	71		0	530
	3	S	13.85	0.80	6.38	87		0	530
		D	13.75	1.36	.01	82		0	
	7	S	13.35	.34	.47	88		0	530
		D	13.30	.48	1.90	26		0	370
	8	S	12.10	0.39	6.03	80		0	670
		D	12.05	.30	.18	82		0	670
	9	S	11.70	.35	.20	81		0	670
1946									
6. iii	1	S	20.30	20.20	5.44	103			0
		D	20.20	.27	.44	103			0
	1a	S	21.10	.41	6.25	120			0
		D	21.00	.29	5.84	112			0
	2	S	19.70	.90	6.30	119			0
		D	19.80	.99	.00	113			0
	3	S	19.50	.95	5.74	108		0	0
		D	19.50	.99	4.27	81		0	0
	4	S	20.00	.98	6.20	118			0
		D	20.00	.99	0.81	15			99
	8	S	23.00	3.24	5.05	83		11	0
		D	26.55	16.50	4.55	92		20	127
	9	S	21.80	0.30	5.96	94		0	18

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1946									
27. vi	1	S	14.95	17.82	5.65	95			20
		D	14.95	.77	4.08	69			18
	1a	S	14.20	16.32	5.45	89			42
		D	14.95	15.52	.52	90			140
	2	S	10.35	5.17	.86	78			220
		D	11.50	7.82	2.71	38			275
	3	S	11.00	.12	6.44	89			420
		D	12.30	9.07	4.94	71			220
	7	S	10.40	6.47	5.78	78			275
		D	10.40	.42	3.10	42			180
	8	S	10.00	0.42	5.63	70			540
		D	10.00	.52	2.76	35			380
28. vi	9	S	10.10	.67	6.40	80			760
		D	10.00	.67	.29	79			640
1947									
16. v	1	S	15.10	16.00	6.50	107		0	5
		D	15.20	.00	.26	103		0	5
	1a	S	14.60	.24	5.78	95		0	5
		D	14.30	.00	6.20	100		0	8
	2	S	14.70	12.48	5.21	82		0	11
		D	14.60	.43	.40	85		0	11
	3	S	14.30	15.21	.67	91		0	8
		D	14.30	.26	.67	91		0	8
	5	S	15.60	1.13	6.26	89		5	120
		D	15.60	.03	.32	89		5	120
	7	S	15.00	16.24	5.52	110		0	8
	8	S	15.20	1.06	6.15	86		5	140
		D	21.80	16.64	0.14	26		0	5
	9	S	14.45	1.31	6.37	88		10	860

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
2. ix	1	S	15.05	4.45	6.06	88		10	13
		D	15.70	18.48	5.47	94		2	3
	1a	S	16.00	4.07	.95	88		1	8
		D	15.70	14.22	4.98	81		3	0
	2	S	15.10	3.58	6.50	94		5	13
		D	14.90	4.45	.32	91		1-5	11
	3	S	16.30	3.02	.32	93		1-5	6
		D	15.70	.76	.32	92		1-5	11
	5	S	14.10	0.62	.82	93		4	13
	7	S	14.90	3.92	.50	94		6-5	11
		D	15.00	4.68	.14	89		3	6
	8	S	14.50	0.57	.96	96		9-5	8
		D	13.80	.46	.85	93		1	22
	9	S	12.80	.57	.79	91		2	28
1948									
8. iii	1	S	23.80	20.31	5.13	103		10	0
		D	22.60	.33	4.85	96		15	3
	1a	S	23.90	.18	.80	97		13	0
		D	23.80	.26	.77	96		14	0
	2	S	23.30	.26	5.65	113		6	0
		D	23.10	19.77	.74	113		9	0
	3	S	23.60	.59	4.91	98		7	0
		D	23.10	.59	5.10	101		9	0
	4	S	21.90	.84	4.23	82		11	0
		D	21.80	.97	.05	78		9	0
	5	S	25.90	9.09	5.61	103		12	3
	7	S	23.20	19.20	4.91	96		9	0
		D	23.20	.23	.53	89		9	0
	8	S	27.20	5.85	5.70	104		9	3
		D	30.10	15.35	4.95	102		15	94
	9	S	24.10	0.41	.77	78		9	87

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
1. x	1	S	16.70	3.79	5.99	89		1	12
		D	17.00	18.20	.57	98		0	12
	1a	S	17.90	4.15	7.39	113		0	28
		D	17.40	.15	.21	109		1	18
	2	S	18.10	.39	6.76	104		7	5
		D	16.80	5.22	7.35	111		0	5
	3	S	19.90	2.77	6.23	97		5	5
		D	18.80	3.47	.30	97		1	9
	4	S	17.90	.77	.71	102		0	12
		D	17.90	4.49	7.15	109		0	12
	5	S	14.90	0.39	6.97	97		1	12
	7	S	17.90	2.70	7.28	109		0	9
		D	16.90	7.50	6.30	98		0	12
	8	S	14.30	0.39	7.03	96		1	9
		D	14.30	.41	.09	97		10	9
	9	S	14.80	.65	.03	98		0	9
1949									
17. iii	1	S	22.20	20.73	5.04	100		0	0
		D	20.10	.75	4.84	93		3	0
	1a	S	21.20	.87	.69	91		1	0
		D	20.50	.84	.75	91		3	0
	2	S	21.20	21.25	5.90	114		0	0
	3	S	21.70	.15	4.90	96		3	0
	3a	S	24.20	20.79	5.11	104		2	0
	4	S	21.40	21.46	.80	114		1	0
	5	S	23.10	8.02	.97	103		5	0
	7	S	21.20	20.95	.48	106		0	0
		D	20.90	.95	.41	104		0	0
	8	S	26.60	13.36	6.50	125		2	0
		D	27.90	18.88	2.79	60		5	0
	9	S	28.00	0.79	5.41	86		6	10

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
18. v	1	S	18.20	19.73	5.25	96		5	0
		D	18.40	.74	4.96	91		4	0
	1a	S	16.50	.58	.93	87		3	0
		D	16.40	.58	5.50	97		3	0
	2	S	15.40	18.90	.55	95		2	0
		D	16.50	19.87	.65	100		3	0
	3	S	15.50	18.86	.55	95		4	0
		D	16.30	19.22	.18	91		5	0
	3a	S	15.40	17.57	6.02	102		2	0
	4	S	15.30	19.17	4.53	78		3	0
		D	16.10	20.01	5.95	104		5	0
	5	S	19.90	17.55	4.60	84		3	0
	7	S	16.20	20.22	.40	78		3	0
		D	16.20	.24	5.40	96		5	0
	8	S	21.40	16.41	.68	103		1	0
		D	21.40	19.63	2.28	44		2	0
	9	S	15.30	0.60	6.50	91		5	0
23. vi	1	S	16.10	19.52	5.58	98		7	0
		D	16.20	.58	.80	102		2	0
	1a	S	16.20	.59	.65	99		4	0
		D	16.50	.59	.72	101		8	0
	2	S	13.80	18.55	.60	93		3	0
		D	13.80	.55	.49	92		3	0
	3	S	13.80	17.83	6.02	99		4	0
		D	13.80	.78	.22	102		0	0
	3a	S	14.10	.43	5.86	98		0	0
	4	S	13.50	18.77	.88	97		4	0
		D	13.50	.76	.82	96		5	0
	5	S	14.70	6.46	6.85	101		0	0
	7	S	13.50	18.90	5.82	97		0	0
		D	13.80	.90	.80	97		4	0
	8	S	14.40	1.64	7.45	103		3	7
		D	18.80	16.59	4.42	79		1	0
	9	S	11.80	0.29	7.40	97		1	18

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
28. vii	1	S	13.80	9.26	6.25	93		6	43
		D	14.10	.98	5.85	89		13	25
	1a	S	14.20	10.77	6.45	99		9	36
		D	14.00	12.26	.45	100		11	26
	2	S	14.20	11.24	.40	99		12	6
		D	14.20	.40	5.50	85		3	16
	3	S	14.80	9.19	6.35	97		7	21
		D	15.10	10.35	.45	100		10	9
	3a	S	15.00	0.23	5.60	78		14	30
		D	14.90	.21	.64	78		9	34
	4	S	13.70	10.32	6.67	103		6	11
		D	13.80	.70	.45	98		10	6
	5	S	13.10	0.67	.95	93		3	135
	7	S	13.90	12.36	.50	101		0	10
		D	14.20	.73	.50	102		12	7
	8	S	12.90	0.69	7.00	94		2	132
		D	12.90	.69	.15	96		4	132
	9	S	13.00	1.03	.17	96		18	215
18. viii	1	S	15.10	2.19	6.05	86		6	176
		D	15.20	.19	.22	89		9	185
	1a	S	16.30	3.26	.50	95		7	110
		D	16.60	.26	.86	101		4	110
	2	S	16.10	2.39	.90	100		3	188
		D	15.20	.53	.96	99		0	180
	3	S	16.30	1.02	.70	96		12	250
		D	16.10	.21	.55	94		13	250
	3a	S	16.60	0.31	.05	87		15	17
		D	16.80	.31	5.86	84		0	7
	4	S	16.50	2.35	6.90	101		5	120
		D	16.20	3.59	7.38	110		0	64
	5	S	13.80	0.44	6.96	95		12	400
	7	S	16.00	4.68	.80	101		3	50
		D	16.20	6.34	.35	98		0	7
	8	S	13.10	0.41	7.10	96		15	450
		D	13.20	.41	.25	98		3	375
	9	S	12.90	.51	.40	99		0	470

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
15. ix	1	S	18.30	16.81	5.65	100		3	
		D	17.80	18.75	.88	105		8	
	1a	S	19.50	3.85	6.61	103		3	
		D	18.10	15.32	.34	108		4	
	2	S	19.00	3.31	.96	107		3	
		D	18.30	5.39	7.30	114		4	
	3	S	19.80	3.09	6.75	105		4	
		D	19.00	2.95	7.85	120		0	
	3a	S	19.40	0.58	5.57	85		2	
		D	18.40	.56	.30	78		0	
	4	S	20.60	3.79	6.95	111		2	
	5	S	16.90	0.56	.62	95		1	
	7	S	19.40	4.83	7.28	115		4	
		D	18.10	.83	.20	111		3	
	8	S	17.00	0.95	6.90	100		4	
		D	15.40	.75	.84	96		3	
	9	S	15.10	.80	.85	96		1	
20. x	1	S	18.10	18.97	5.48	99		5-15	0
		D	18.00	19.02	.51	99		2-19	8
	1a	S	18.40	18.67	.54	100		5	0
		D	18.30	.66	.42	98		2	0
	2	S	19.70	8.50	.79	95		5-19	7
		D	19.70	.50	.94	98		3-38	0
	3a	S	19.70	0.67	4.99	76		6-38	21
		D	19.80	.62	5.18	79		4-46	21
	4	S	19.90	8.15	.83	96		4	5
	5	S	18.40	0.51	6.58	97		4	7
	7	S	19.70	8.28	5.86	96		4-24	0
		D	19.90	.23	.79	95		2-26	51
	8	S	18.40	0.51	6.45	96		4-25	12
		D	18.20	.51	.45	96		7-68	32
	9	S	17.60	.69	.17	89		2	12

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
23-	1	S	20.55	13.97	5.26	93		2-10	0
24. xi		D	20.30	18.82	.48	102		0-10	0
	1a	S	22.95	9.54	.90	104		1	0
		D	22.65	10.07	6.00	105		2	0
	2	S	22.65	.24	5.51	97		1-9	0
		D	21.40	15.09	6.10	111		9-9	0
	3	S	22.95	6.03	5.33	90		0	0
	3a	S	25.80	0.46	.43	91		0-13	0
		D	23.40	.52	4.75	77		0-13	0
	4	S	22.95	10.70	5.80	102		0	0
	5	S	24.40	0.55	6.51	107		0	0
	7	S	22.70	9.14	5.65	99		1-22	0
		D	22.75	.19	.45	95		3-2	0
	7a	S	25.45	13.84	.87	112		3-8	0
	8	S	24.50	0.50	6.51	105		0-18	0
		D	21.10	.62	.33	99		0-8	0
	9	S	22.90	.62	5.60	90		0	0
20. xii	1	S	22.80	16.47	4.69	89		0-6	0
		D	22.20	18.10	.69	90		2-7	0
	1a	S	25.20	14.99	6.20	120		0	0
		D	25.40	.99	.00	117		0	0
	2	S	25.80	.74	5.66	110		2-13	0
		D	25.00	.84	6.17	119		2-11	75
	3	S	27.00	.64	5.28	104		2	0
	3a	S	25.90	2.11	.23	88		3	0
		D	25.90	.73	4.96	85		2	17
	4	S	26.20	14.44	5.41	105		1	0
	5	S	27.80	4.57	.31	96		1	0
	7	S	24.60	13.40	.28	100		2	0
		D	24.20	.99	.11	97		2	0
	7a	S	30.10	11.70	6.13	124		2	0
	8	S	28.10	1.19	5.41	95		2	8
		D	29.10	7.22	3.56	68		0	8
	9	S	24.80	0.62	5.03	83		1	8

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1950									
25.i	1	S	22.40	17.86	4.46	85		0-12	0
		D	22.70	19.14	.29	83		3-10	0
	1a	S	22.60	17.91	.78	92		3	0
		D	22.00	18.01	.82	91		3	0
	2	S	24.50	.65	5.38	110		0-8	0
		D	24.50	.65	.38	110		3-10	0
	3	S	24.80	.74	.70	111		0-13	0
		D	24.80	.79	.70	111		3-9	0
	3a	S	26.70	16.49	.75	112		2-13	0
		D	27.20	.74	.70	112		2-11	0
	4	S	24.10	18.79	.38	110		5	0
		D	24.10	.84	.38	110		0	0
	5	S	25.90	11.14	.27	100		1	0
	7	S	23.40	17.76	.06	98		1-9	0
		D	22.70	18.35	.35	104		2-10	0
	7a	S	24.70	15.85	.57	110		0-13	0
	8	S	28.00	8.39	.64	106		3-7	0
		D	30.50	13.13	4.65	96		0-17	0
	9	S	27.20	1.28	.31	74		5	0
21.ii	1	S	21.30	20.59	4.68	91		1-7	9
		D	20.70	.54	.68	90		1-1	11
	1a	S	19.90	.30	.74	89		2	0
		D	20.30	.30	.74	89		5	6
	2	S	23.00	.79	5.10	102		0-5	0
		D	22.60	21.02	4.95	99		12	0
	3	S	22.50	.05	5.40	108		2-3	0
	3a	S	22.50	19.75	4.68	92		6-8	0
		D	21.90	.77	.57	88		1-18	0
	4	S	22.10	21.20	5.33	105		2	0
	5	S	23.50	13.52	.33	100		3	0
	7	S	21.70	20.88	.22	102		5-3	0
		D	21.80	.97	.40	106		2-3	0
	7a	S	22.00	19.19	4.74	91		3-1	13
	8	S	28.20	11.45	7.25	142		0-12	0
		D	29.70	18.56	3.30	72		0-9	0
	9	S	23.90	1.88	4.74	79		0	18

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1950									
3.iv	1	S	20.50	20.27	5.59	106		8-6	0
		D	20.30	.32	.59	106		8-2	0
	1a	S	21.20	.35	.56	106		11	0
		D	21.20	.35	.56	106		9	0
	2	S	21.20	23.08	.32	105		6-8	0
		D	21.20	.15	.35	106		6-6	0
	3	S	21.40	.00	.08	101		6	0
	3a	S	21.40	22.85	4.54	90		4-20	0
		D	21.40	.96	.54	90		8-7	0
	4	S	23.50	.96				6	0
	5	S	21.20	18.33	5.17	98		8	0
	7	S	20.50	21.95	4.14	81		6-4	0
		D	20.70	22.19	5.29	103		2-7	0
	7a	S	21.30	.65	4.75	94		9-3	0
	8	S	23.20	16.13	5.04	96		8-12	0
		D	23.90	20.68	4.61	93		6-6	11
	9	S	23.60	5.59	3.00	52		5	140
17-18.v	1	S	18.30	19.78	5.15	94		3-9	0
		D	18.00	.86	.26	95		3-10	0
	1a	S	17.70	20.10	.39	98		6	0
		D	17.80	.10	.39	98		5	0
	2	S	16.40	.80	.55	99		6-6	0
		D	16.40	.84	.55	99		3-9	0
	3	S	16.50	18.88	6.05	106		3	0
	3a	S	15.90	21.04	4.00	71		2-20	0
		D	16.30		.00			6-12	0
	4	S	16.30	20.12	5.60	99		3	0
	5	S	19.50	14.33	6.58	115		0	0
	7	S	17.60	20.18	5.42	98		3-17	0
		D	16.40	21.21	.48	97		2-10	0
	7a	S	18.60	22.18	4.42	82		1-17	0
	8	S	19.80	7.73	5.22	86		7-26	0
		D	21.70	21.41	0.31	6		0-31	0
	9	S	15.60	0.49	4.90	69		11	23

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1950									
14-15. vi	1	S	15.50	19.54	5.58	96	8.24	5-9	0
		D	15.70	.58	.64	98	.20	5-6	0
	1a	S	14.30	.42	6.15	104	.26	35	0
		D	14.40	.41	.15	104	.24	5	0
	2	S	14.20	.59	5.93	100	.27	2-13	0
		D	14.20	.64	.79	98	.26	3-12	0
	3	S	15.30	18.46	6.75	115	.27	2	0
	3a	S	13.20	7.47	5.93	86	7.78	3-20	18
		D	16.80	12.62	4.62	76	.87	6-15	12
	4	S	14.50	18.76	6.75	114	8.52	5	0
	5	S	16.50	12.19	.25	101	.14	6	12
	7	S	14.60	20.04	5.93	102	.22	2-19	0
		D	14.70	.05	6.00	103	.18	4-11	0
	7a	S	14.50	.38	.38	110	.17	0-25	0
	8	S	15.60	7.79	5.85	89	7.88	9-24	27
		D	19.50	19.09	2.90	54	.94	4-32	0
	9	S	12.00	0.34	6.59	87	6.77	5	13
17-18. vii	1	S	15.50	19.51	5.55	96	8.17	0-7	4
		D	15.40	.51	.85	102	.17	0-6	0
	1a	S	15.50	.52	.55	96	.17	0	0
		D	15.40	.52	.55	96	.16	0	0
	2	S	14.80	.50	.96	102	.18	0-7	0
		D	14.80	.52	.85	100	.18	0-11	0
	3	S	13.10	11.15	6.38	96	.03	0	12
	3a	S	13.40	4.66	5.69	80	7.33	9-44	20
		D	13.80	12.03	.02	77	.90	1-17	19
	5	S	12.50	1.15	7.10	95	.16	1	77
	7	S	13.20	11.14	6.60	99	8.04	0-10	10
		D	13.00	.52	.75	102	.11	0-14	0
	8	S	12.30	1.17	7.13	95	7.11	4-5	85
		D	12.10	.13	.02	93	.11	3-0	70
	9	S	11.90	.22	6.98	92	.12	6	110

Location: PEEL HARVEY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
16-	1	S	16.40	19.12	5.72	100	8.19	0-4	0
17. viii		D	16.30	.08	.67	99	.19	0-7	0
	1a	S	16.70	.05	.76	101	.18	0	0
		D	16.60	.06	.67	100	.18	0	0
	2	S	16.00	11.29	6.05	97	.13	3-4	0
		D	16.40	16.60	5.95	101	.23	0-9	0
	3	S	16.40	12.40	.84	95	.13	2	0
	3a	S	16.10	1.48	.35	76	6.95	3-8	10
		D	16.20	4.92	4.85	72	7.27	3-7	4
	4	S	16.00	8.52	6.20	96	.99	0	0
	5	S	13.90	0.74	.35	86	6.87	7	11
	7	S	16.10	8.29	.85	105	7.98	0-12	0
		D	16.00	.42	5.30	80	8.12	0-10	0
	7a	S	16.00	5.41	6.25	93	7.87	0-21	0
	8	S	14.20	0.68	.20	85	6.92	9-20	0
		D	14.00	.68	.10	84	.86	17-6	8
	9	S	14.00	.67	.15	84	.88	18	10
22-	1	S	21.40	15.35	4.47	81		4-2	0
23. xi		D	20.00	18.42	.88	91		7-2	0
	1a	S	23.90	14.12	5.34	100		2-5	0
		D	22.30	.55	.12	95		2-5	0
	2	S	24.20	13.01	.23	98		2-4	0
		D	24.20	.80	.49	104		2-9	0
	3	S	25.60	12.24	.25	100		3	0
	3a	S	24.10	0.95	4.58	75		5-3	0
		D	23.50	.93	.52	73		4-6	0
	4	S	24.80	13.81	5.07	96		4	0
	5	S	23.10	0.52	6.10	98		1	0
	7	S	23.40	11.48	5.24	95		1-8	0
		D	23.30	13.05	4.95	92		6-3	0
	7a	S	25.80	12.35	5.25	100		1-8	0
	8	S	23.40	0.44	6.01	97		5-0	0
		D	21.60	.53	5.70	90		4-3	0
	9	S	22.80	.54	.52	88		3	0

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1945									
2.ii	1	S	24.00	19.71	4.61	92		0	0
		D	22.00	20.15	.12	80		0	0
	2	S	23.40	19.96	5.37	107		0	0
		D	25.15	.97	.06	104		0	0
	3	S	24.85	.98	.53	113		0	0
		D	24.40	.97	3.67	74		0	4
	4	S	25.40	21.26	6.91	145		0	26
		D	24.90	.29	3.52	73		0	0
	7	S	30.40	14.71	6.00	126		0	0
	8a	S	31.40	0.31	5.03	91		100	700
	9	S	26.30	.34	.10	86		0	129
	10	S	26.50	.30	4.62	78		0	15
7.viii	1	S	14.40	17.61	5.43	91		8	530
		D	14.70	18.84	3.77	64		8	530
	2	S	12.50	1.68	6.45	87		0	530
		D	12.95	10.60	.05	90		0	530
	3	S	13.05	6.67	.25	90		0	530
		D	13.10	7.07	.35	91		0	670
	4	S	12.50	1.83	.00	81		0	670
		D	12.55	.81	5.25	71		0	670
	7	S	12.45	0.15	6.00	80		7	670
	8a	S	12.25	.21	.13	81		23	530
	9	S	12.15	.12	7.15	94		10	530
	10	S	11.45	.21	5.92	77		0	530
1946									
7.iii	1	S	20.10	20.22	4.40	83		9	0
		D	19.80	.24	5.54	104		0	0
	2	S	20.10	.17	1.73	33		0	0
		D	20.00	.20	3.28	62		0	0
	3	S	19.20	.15	5.09	95		0	0
		D	19.25	.15	.72	106		0	0
	3a	S	20.30	.56	.42	103		0	0
		D	20.15	.61	.35	101		3	0
	4	S	19.15	.58	4.89	91		0	0
		D	19.25	.49	2.85	53		30	47
	7	S	29.95	15.68	5.45	115		0	4
		D	28.90	17.57	0.96	20		0	0
	9	S	19.60	0.20	1.40	21		0	60

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
29. vi	1	S	14.80	18.69	3.58	61			39
		D	14.80	19.25	4.30	75			25
	2	S	14.30	5.19	3.62	52			420
		D	14.50	16.24	6.07	99			21
	3	S	12.55	5.25	.11	85			90
		D	13.60	14.75	5.52	87			90
	6	S	11.30	9.50	4.83	69			175
		D	11.20	11.21	6.28	91			135
	7	S	10.95	0.16	3.87	49			760
		D	11.00	.21					640
	8a	S	11.40	.18					760
	9	S	11.40	.21	6.95	90			320
	10	S	12.00	.29	7.15	94			760
24-25. ix	1	S	16.30	19.06	4.95	86		6	13
		D	15.80	.20	.82	84		7	13
	2	S	18.75	8.14	5.75	93		5	15
		D	18.00	15.15	.29	91		5	15
	2a	S	17.90	0.93	.75	84		3	22
	3	S	20.00	2.13	6.48	101		2	16
	3a	S	18.60	0.21	3.99	60		8	33
	6	S	19.30	3.13	5.75	86		2	33
	8a	S	15.80	0.15	6.16	87		12	126
	9	S	19.20	.19	5.68	85		8	25
	10	S	17.60	.15	.96	87		2	28

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
30. iv-	1	S	20.00	19.87	5.20	98		0	11
1. v		D	19.10	.72	4.93	91		0	5
	2	S	18.15	.72	3.93	71		0	5
		D	18.05	.91	4.00	73		0	8
	2a	S		8.44				0	5
	3	S	18.50	20.35	5.20	96		1	5
		D	18.40	.38	.00	93		0	5
	3a	S	20.20	17.63	.27	97		0	8
		D	19.55	20.04	4.93	92		0	5
	4	S	18.70	21.17	.87	91		0	5
		D	18.70	.46	5.07	95		0	8
	6	S	18.50	23.10	4.72	90		0	5
		D	18.50	.10	.00	76		0	5
	7	S	24.90	18.60	.46	90		0	5
		D	24.30	19.23	1.89	36		1	14
	8a	S		0.41				90	175
	9	S	18.50	.29	5.53	82		4	17
	10	S	20.20	.41	.66	86		10	22
2-	1	S	15.05	15.76	5.57	92		5	11
3. ix		D	15.20	18.89	4.98	85		7	28
	2	S	14.40	3.83	6.70	95		6	20
		D	14.40	6.28	.27	91		2	17
	2a	S	15.50	0.72	.49	92		5	6
	3	S	14.20	1.21	.95	96		10	14
		D	14.20	.92	.95	95			
	3a	S	15.30	0.18	.63	93		9	40
		D	14.80	.21	.63	92		5	64
	4	S	14.50	1.89	.95	97		7	11
		D	14.45	.97	.49	91		7	28
	6	S	14.65	2.02	.95	98		1	22
		D	14.55	.20	.80	96		5	20
	7	S	14.70	0.26	.27	86		21	45
		D	14.60	.21	.42	88		21	88
	8a	S	14.50	.15	3.42	47		5	54
	9	S	12.80	.13	7.45	99		0	30
	10	S	12.45	.15	.11	94		3	28

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
5-6.iii	1	S	22.00	20.03	5.03	98		7	0
		D	21.30	.13	4.63	89		13	6
	2	S	21.10	.37	3.45	66		12	9
		D	20.90	.67	.57	69		13	0
	2a	S	24.70	1.27	4.77	80		15	65
	3	S	25.50	20.62	.97	103		15	0
	3a	S	24.60	19.38	.73	95		12	0
	4	S	21.70	22.21	.71	93		13	0
	6	S	24.60	24.19	3.72	79		11	220
	7	S	31.00	11.85	6.85	141		16	3
	8a	S	30.80	0.47	5.83	106		65	150
	9	S	26.30	.13	.93	100		6	3
	10	S		.21	.10			12	9
1.x	1	S	16.70	18.53	6.65	116		0	0
		D	16.50	19.09	5.52	97		0	3
	2	S	16.90	0.55	6.87	99		6	15
		D	16.90	.67	.93	100		2	21
	2a	S	15.90	.13	.84	96		25	28
	3	S	17.10	.52	.57	95		1	9
		D	17.20	.52	.60	96		1	3
	3a	S	17.40	.19	.84	99		7	15
		D	16.10	.15	.97	99		13	5
	4	S	16.80	2.77	.90	101		0	9
	6	S	15.50	4.15	.51	95		0	3
	7	S	16.20	0.10	.23	88		53	12
	8a	S	15.40	.08	7.54	105		1	3
	9	S	14.00	.10	.45	101		44	12
	10	S	15.00	.15	.28	101		1	12

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
23-	1	S	21.40	20.13	4.89	95		7	0
24. iii		D	20.30	.18	.93	93		7	0
	2a	S	25.50	12.05	3.63	69		30	0
	3	S	23.90	20.20	4.68	95		5	17
	3a	S	23.00	16.79	5.86	110		9	0
		D	21.80	20.91	3.73	73		3	220
	4	S	23.30	22.06	4.93	100		4	11
	6	S	23.90	24.41	5.05	105		9	17
	7	S	28.00	16.05	2.59	54		11	4
	8a	S		0.23				150	12
	9	S	24.90	.15	5.90	98		9	17
	10	S	22.60	.23	.86	94		5	7
31. viii	1	S	16.80	19.09	5.50	97		0	
		D	16.80	.11	.55	98		0	
	2a	S	15.50	0.18	6.65	93		0	
	3	S	15.20	.61	.85	97		11	
	3a	S	16.00	.20	.65	95		13	
		D	15.90	.20	.75	95		10	
	4	S	14.70	2.89	.15	87		12	
	6	S	14.50	4.17	5.95	85		8	
	7	S	15.70	0.18	6.25	88		18	
	8a	S	16.00	.15	.74	95		10	
	9	S	14.80	.10	.55	90		20	
	10	S	15.00	.13	.65	92		3	
1950									
21. iv	1	S	20.80	20.16	4.56	87		10-4	0
		D	20.80	.08	.40	84		8-7	0
	2a	S	23.40	14.67	.63	87		3-12	125
	3	S	19.10	21.78	.34	82		9	0
		D	19.40	.88	.17	80		12	0
	3a	S	20.00	19.23	.67	87		17-17	0
		D	19.40	20.71	.10	77		16-12	350
	4	S	20.40	23.23	.40	87		16	0
		D	19.90	.23	.49	88		11	0
	6	S	21.30	25.18	5.06	104		17-1	0
	7	S	25.00	15.38	4.04	79		37	0
	8a	S	22.20	0.26	6.35	100		7	520
	9	S	19.30	.31	5.77	87		9-0	0
	10	S	19.70	.26	.84	89		3-5	0

Location: LESCHENAULT INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
8. xi	1	S	18.00	19.63	5.05	92	8.19	5-2	0
		D	18.00	.56	.02	93	.15	3-5	50
	2a	S	18.50	0.27	6.50	96	6.61	10-0	15
	3	S	15.70	10.91	4.89	77		8	8
	3a	S	20.00	.21	6.46	109	7.79	6-25	0
		D	18.20	11.97	5.45	91	8.01	4-18	14
	4	S	16.60	10.27	6.65	105		6	11
	6	S	16.40	6.62	.40	98		4-4	24
	7	S	18.00	0.21	.62	97	6.90	7	13
	8a	S	19.20	.16	.10	91		9	55
	9	S	17.30	.11	.62	96	.55	6-0	31
	10	S	17.80	.17	.15	90		6-0	33

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1945									
3. ii	1	S	22.45	19.68	4.91	96		0	0
		D	22.45	.64	.78	93		0	0
	2	S	22.45	.68	.91	96		0	0
		D	21.50	.44	3.83	73		3	0
	3	S	23.00	14.48	5.13	96		0	0
		D	23.20	.56	4.47	84		0	4
	5	S	24.50	9.00	6.40	120		0	0
		D	21.80	12.51	4.49	76		0	0
	6	S	23.30	1.28	5.39	88		0	0
		D	25.00	11.17	2.32	43		0	0
	7	S	24.30	0.96	3.66	60		0	0
	8	S	24.90	1.60	4.40	74		0	8
		D	23.00	.46	3.13	51		0	0
8. viii	2	S	11.50	0.34	6.44	84		0	670
		D	11.55	.40	.53	85		0	122
	3	S	11.50	.52	.62	86		0	0
		D	11.40	.67	4.86	63		0	37
9. viii	6	S	11.20	.09	6.40	82		0	670
		D	11.20	.52	.20	80		0	670
	7	S	11.15	.50	5.63	72		0	300
	8	S	10.85	.56	.60	71		0	220
1946									
8. iii	2	S	18.90	19.88	5.42	100		0	0
		D	18.95	20.05	.41	100		0	0
	3	S	18.80	18.27	.00	91		0	0
		D	19.10	.37	0.00	0		0	127
	6	S	19.70	3.85	6.28	99		0	0
		D	24.70	15.93	2.84	55		0	0
	7	S	19.00	0.91				0	170
	8	S	19.90	1.58	4.19	65		11	2
		D	19.35	.63	.03	62		2	0

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
1. vii	2	S	17.30	19.44	7.40	131			33
		D	17.30	.35	4.24	76			28
	3	S	14.15	9.14	7.05	106			180
		D	14.20	18.71	6.05	101			20
	6	S	11.50	1.45	7.65	101			760
		D	11.60	2.11	6.61	87			760
	7	S	10.35	1.96	.61	85			900
		D	10.80	.96	5.55	72			640
	8	S	10.70	.55	6.57	55			940
		D	10.70	.60	4.30	60			640
26. viii	1	S	17.50	2.26	5.82	86		0	18
		D	17.00	17.46	.48	95		1	2
	2	S	17.70	1.78	.69	84		0	22
		D	17.20	17.63	.36	94		0	2
	3	S	17.80	1.96	.42	81		0	22
		D	17.00	14.42	.13	86		0	5
	5	S	18.00	3.90	.15	78		0	13
		D	17.20	14.12	1.23	21		0	2
27. viii	6	S	15.70	0.77	5.51	78		0	43
		D	15.70	.67	.85	83		0	45
	7	S	16.60	1.03	4.48	65		0	35
	8	S	17.00	.39	5.03	73		0	25
		D	17.05	.39	4.98	73		0	15

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
27.iv	1	S	19.80	19.87	5.05	94		0	2
		D	19.80	.87	.05	94		0	2
	2	S	19.60	.87	.00	93		0	5
		D	19.90	.75	.00	93		0	8
	3	S	19.10	18.78	.00	92		1	2
		D	19.55	19.43	4.93	92		0	2
	5	S	17.40	13.49	5.35	89		0	5
		D	17.80	14.33	.03	85		0	5
	6	S	20.50	5.60	.41	88		0	5
		D	22.40	14.46	3.18	59		0	5
	7	S	18.20	0.82	5.66	83		0	5
	8	S	17.50	1.94	.66	83		0	20
		D	17.00	2.08	4.61	68		0	55
	9	S	18.00	.61	.47	67		0	0
		D	17.50	.71	.81	72		1	2
4.ix	1	S	14.10	2.15	6.71	93		6-5	22
		D	16.80	16.62	.64	114		7-5	17
	2	S	14.10	1.18	.64	91		5	14
		D	16.80	16.28	5.49	94		4	0
	3	S	14.00	0.82	6.88	94		5	17
		D	13.70	.77	.77	92		5	22
	5	S	13.45	.51	.64	90		6-5	45
	6	S	12.80	.40	.43	86			
		D	12.90	.39	.43	86		5	39
	7	S	12.25	.67	.29	83		7-5	45
5.ix	8	S	12.80	1.02	5.87	79		6-5	39
		D	12.80	.02	.93	80		11	48
	9	S	12.55	.16	.44	72		7-5	20
		D	12.55	.16	.49	73		5-5	11

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
2. iii	6	S	21.80	3.70	5.58	91		8	0
		D	26.30	14.78	2.04	40		9	9
	7	S	22.00	1.22	4.71	75		14	200
	8	S	22.10	.53	.32	69		5	0
		D	22.00	.73	3.44	55		6	0
	9	S	22.80	2.27	.68	60		6	0
		D	22.60	.11	.93	64		5	0
4. iii	1	S	19.80	19.69	5.30	99		8	0
		D	19.70	.54	.33	99		10	0
	2	S	18.80	17.55	4.92	88		10	3
		D	18.80	18.69	.95	90		5	0
	3	S	19.00	16.57	.86	86		8	0
		D	19.00	.63	.97	88		8	0
	5	S	20.40	11.51	5.39	93		7	0
		D	21.00	18.61	.66	106		5	0
3-4. x	1	S	14.60	0.72	6.30	87		2	9
		D	14.60	.95	.30	87		4	9
	2	S	14.80	.41	.36	88		7	12
		D	14.50	.41	.30	87		3	12
	3	S	14.50	.34	.23	86		5	12
	5	S	14.70	.31	.30	87		2	12
		D	14.50	.36	.00	83		2	9
	6	S	14.50	.29	.84	94		2	9
		D	14.50	.29	.84	94		4	5
	7	S	15.50	.75	.30	89		6	24
	8	S	14.80	1.23	.36	89		4	5
		D	14.70	.23	.36	89		6	12
	9	S	15.50	.75	5.87	83		1	0
		D	15.40	.75	6.04	86		4	0

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
25-	1	S	22.60	19.55	5.40	105		7	0
26. iii		D	21.40	.83	.35	103		8	0
	2	S	21.70	17.51	4.65	87		4	0
		D	21.30	18.17	.60	86		6	0
	3	S	21.60	17.02	.65	87		3	0
		D	21.70	18.84	.33	83		25	0
	5	S	23.90	11.20	5.58	101		8	0
		D	23.60	17.52	.46	105		3	0
	6	S	23.90	4.71	.40	92		3	8
		D	24.60	16.01	3.10	60		10	0
	7	S	22.80	0.74	5.85	94		6	12
	8	S	19.70	1.62	4.98	77		0	0
		D	19.10	.64	3.30	50		6	0
	9	S	20.60	2.22	5.58	88		2	0
		D	19.80	.23	4.80	75		5	0
28-	1	S	14.60	1.63	6.38	89			
30. viii		D	14.60	.74	.48	90			
	2	S	14.10	0.92	.40	88			
		D	16.30	15.42	5.40	91			
	3	S	12.90	0.67	6.19	83			
	5	S	14.40	.47	5.90	82			
		D	13.90	.51	6.17	84			
	6	S	14.00	.64	.15	84			
		D	14.00	.61	.17	84			
	7	S	13.80	1.00	.02	82			
	8	S	13.90	.16	.02	82		5	
		D	13.90	.16	5.90	81		6	
	9	S	14.10	.07	.40	74		3	
		D	14.10	.07	.30	73		4	

Location: HARDY INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
23-24. iv	1	S	21.50	19.72	5.10	98		6-6	0
		D	21.70	.74	.23	101		5-8	0
	2	S	21.40	.64	.16	99		5	0
		D	21.40	.74	.10	98		8	0
	3	S	21.00	18.85	.03	95		10	17
		D	21.40	19.48	4.66	89		0	0
	5	S	19.60	.69	.83	90		1-8	0
		D	19.60	.83	.97	93		5-10	0
	6	S	22.70	10.76	.46	80		8-3	0
		D	22.90	15.68	3.35	63		5-8	0
	7	S	17.30	0.82	4.86	71		5	0
	8	S	17.70	1.96	5.23	78		3-15	0
		D	16.90	.96	4.93	72		0-20	0
	9	S	18.90	2.37	5.56	85		0	0
		D	18.50	.39	.19	79		5	0
6. xi	1	S	17.80	19.42	5.44	98	8.26	5	0
		D	17.80	.53	.38	97	.26	4	0
	2	S	19.00	8.95	6.21	102	7.79	4	11
		D	18.30	19.06	5.52	100	8.23	7	0
	3	S	19.50	6.25	6.05	98	7.98	4	11
		D	18.90	13.44	5.00	86	8.20	5	0
	6	S	18.00	0.35	.56	82	6.87	4-2	13
		D	17.90	.40	.78	84	.82	6-0	9
	7	S	17.80	.70	6.16	90	7.21	4	19
	8	S	19.60	1.32	.08	93	.34	4-9	39
		D	18.30	.36	5.59	84	.25	4-8	28
	9	S	18.80	2.12	4.10	62	.21	19	22
		D	17.50	.14	3.50	52	.20	26	11

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1944									
15.iii	1	S	19.00	19.85	5.40	100		0	2
	2	S	18.60	.70	4.97	91		2	3
	3	S	18.55	18.98	5.14	93		2	2
	4	S	18.90	19.70	.63	103		2	2
	5	S	18.70	.88	.35	98		0	2
	7	S	17.50	0.20	.12	74		0	65
1945									
5.ii	1	S	20.30	19.70	5.15	97		0	0
		D	20.15	.76	.35	100		0	0
	2	S	20.80	.59	4.69	89		0	0
		D	20.20	.50	.62	87		0	0
	3	S	20.80	.79	.82	92		0	0
		D	20.70	.60	.62	88		0	0
	4	S	20.95	.65	.85	92		0	0
		D	20.85	.60	.79	91		0	0
	5	S	22.50	.57	5.92	115		0	0
		D	21.60	.52	3.56	68		0	0
	8	S	25.45	15.44	4.44	86		0	0
		D	21.70	17.99	0.00	0		0	2
1946									
12.iii	1	S	18.95	19.79	6.75	125		0	0
	3	S	18.90	.59	.40	119		6	0
		D	18.90	.74	5.18	95		9	0
	4	S	18.80	.67	.23	100		0	0
	5	S	19.50	17.57	6.70	125		2	0
		D	19.45	19.70	3.13	57		5	2
	7	S	18.60	0.15	6.46	95		5	0
	8	S	22.90	16.40	.36	120		0	0
		D	21.00	18.52	.95	131		13	0

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
2. vii	1	S	12.80	13.21	6.57	101			24
	3	S	12.50	14.13	.94	107			35
		D	16.10	18.71	5.08	88			43
	4	S	12.50	14.01	6.09	94			55
		D	15.40	17.96	4.08	69			45
	5	S	10.50	14.70	5.90	88			45
		D	14.50	17.62	2.76	46			45
	7	S	10.40	0.28	5.15	65			70
		D	10.40	.26	3.66	46			85
3. vii	8	S	10.60	5.49	.10	42			56
		D	15.60	15.84	2.51	41			56
28. ix	1	S	17.30	15.31	5.25	89		5	6
	2	S	16.50	9.48	4.72	74		2	40
		D	15.70	17.20	3.22	55		5	55
	3	S	16.80	9.91	4.97	79		7	5
		D	15.50	17.15	1.55	28		9	0
	4	S	16.90	9.71	4.78	76		3	9
	5	S	16.70	.98	.78	76		5	7
		D	16.00	16.86	1.85	31		7	7
	6	S	15.70	0.10	4.06	57		3	83
	7	S	15.25	.10	3.98	55		1	13
	8	S	16.25	.61	4.00	58		3	60
		D	15.10	.60	.00	56		3	27
1947									
25. iv	1	S	20.50	19.87	4.80	91		0	5
	2	S	18.80	18.24	5.23	95		0	2
		D	18.60	.48	.30	96		0	5
	3	S	18.80	.40	.16	93		0	2
		D	19.90	.48	4.36	81		0	2
	4	S	18.60	.48	5.23	94		0	8
		D	19.80	19.48	4.36	81		0	5
	5	S	18.65	18.26	5.30	95		0	5
		D	19.70	19.04	4.95	92		0	5
	6	S	19.40	1.74	.85	74		0	145
		D	17.00	17.48	5.30	92		1	20
	7	S	17.20	0.31	4.90	71		0	2
	8	S	18.65		5.63				
		D	19.60	13.59	2.58	45		0	8

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
6. ix	1	S	16.20	3.63	6.88	101		34	0
		D	16.20	7.01	5.99	91		34	0
	2	S	14.20	1.21	.58	77		39	6
		D	15.90	17.70	4.21	72		10	14
	3	S	15.85	4.83	5.40	80		43	0
		D	16.50	18.28	3.72	65		10	11
	4	S	15.45	4.95	6.06	89		37	0
		D	15.00	15.14	5.06	74		10	8
	5	S	16.30	4.29	4.77	70		47	0
		D	14.40	11.59	5.14	79		20	3
	6	S	11.10	0.08	.82	75		43	0
		D	11.10	.24	.65	72		43	0
	7	S	10.80	.13	6.06	77		47	0
	8	S	12.60	.36	5.87	78		47	0
		D	12.10	.34	.93	76		47	3
1948									
28-29. ii	1	S	21.00	19.83	4.92	94		12	0
		D	21.00	.85	5.39	103		1	0
	2	S	22.00	.76	.03	97		12	0
		D	22.10	.74	.20	101		12	0
	3	S	21.50	.64	.10	98		10	0
		D	21.55	.64	.24	101		10	0
	4	S	21.30	.74	4.55	87		10	0
		D	21.40	.66	5.19	99		10	0
	5	S	21.00	18.79	.10	96		4	0
		D	21.80	19.18	.10	98		12	0
	6	S	21.50	2.01	.74	91		10	200
		D	29.50	16.29	4.94	104		4	0
	7	S	20.20	0.21	.03	62		0	25
	8	S	25.20	16.29	5.42	106		4	0
		D	23.00	18.32	3.36	65		3	0

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
3. xi	1	S	18.30	15.92	6.73	117		5	0
		D	18.50	16.04	.85	120		5	0
	2	S	17.20	13.94	.14	103		8	15
		D	16.20	17.71	5.18	89		10	2
	3	S	16.50	15.74	6.20	105		6	0
		D	16.50	16.02	.14	104		7	0
	4	S	16.80	13.76	.27	104		3	0
		D	15.80	14.70	.20	102		7	0
	5	S	18.20	10.57	5.59	92		10	0
		D	16.30	12.30	.88	95		11	0
	6	S	17.20	0.82	.06	74			61
	7	S	15.90	.13	.31	75			0
	8	S	20.70	1.13	.31	83			18
		D	17.00	6.08	4.35	67			18
1949									
6. v	1	S	20.30	19.57	5.50	103		2	0
		D	20.40	.53	.50	103		6	0
	2	S	16.70	17.80	.65	98		0	0
		D		18.74	4.97			3	33
	3	S	16.20	17.59	5.73	98		2	0
		D	20.30	19.38	4.27	80		2	52
	4	S	16.80	18.20	5.50	96		0	0
		D	17.30	.50	4.85	86		8	23
	5	S	17.30	.06	5.33	94		0	0
		D	17.30	.31	.40	96		0	0
	6	S	15.50	1.21	.55	79		9	124
		D	18.20	15.23	3.94	69		2	7
	7	S	13.00	0.21				4	18
	8	S	19.20	15.28	5.03	88		12	0
		D	18.00	17.26	.40	95		0	0

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 °/o	pH	PO_4-P	NO_3-N
1949									
27. viii	1	S	18.30	19.20	5.94	108		7	
		D	18.20	.35	6.00	108		9	
	2	S	16.40	6.40	5.70	79		7	
		D	17.70	15.23	4.15	71		8	
	3	S	15.80	4.73	6.00	88		13	
		D	17.60	17.97	5.07	90		13	
	4	S	16.00	3.92	.96	87		10	
		D	17.30	18.23	2.27	41		0	
	5	S	16.70	7.05	5.75	89		5	
		D	16.70	17.69	2.45	42		0	
	6	S	12.20	0.39	5.50	73		7	
		D	12.60	.13	.65	75		8	
	7	S	11.90	.10	.75	75		8	
	8	S	13.40	1.33	6.05	82		7	
		D	12.10	.28	5.80	77		1	
1950									
5-6. iii	1	S	21.40	20.20	5.23	101		5-14	9
		D	21.30	.20	.26	101		8-2	0
	2	S	21.50	.25	4.98	97		8	0
		D	21.30	.30	.89	95		17	0
	3	S	21.50	.30	5.20	101		9	0
		D	21.30	.28	.12	99		8	0
	4	S	21.80	.16	4.89	95		0-5	0
		D	21.70	.33	.87	95		5-1	0
	5	S	22.10	19.81	.82	94		3-9	0
		D	21.90	20.23	.87	95		6-1	0
	6	S	25.20	9.07	6.12	90		3-1	88
		D	29.20	18.50	5.80	125		7-0	0
	7	S	18.20	0.13	3.82	56		0	50
	8	S	22.60	16.16	4.12	78		1-6	0
		D	21.40	18.92	5.32	101		6-2	0

Location: NORNALUP INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
5-	1	S	17.80	16.58	5.56	96	8.16	4-2	0
6. xi		D	17.70	.66	.59	97	.16	5-5	0
	2	S	17.30	.46	.46	94	.09	4	0
		D	17.20	18.57	4.86	85	.14	11	0
	3	S	17.10	16.24	5.65	97	.12	7	0
		D	17.40	17.81	.48	96	.18	5	0
	4	S	17.00	16.12	.58	96	.18	6-1	0
		D	17.00	.09	.65	97	.15	6-10	80
	5	S	16.90	15.66	.60	95	.10	3-5	0
		D	16.80	.66	.58	95	.11	9-0	0
	6	S	16.20	0.12	4.60	65	6.34	8-7	94
		D	16.30	.12	.47	63	.28	6-5	94
	7	S	16.40	.16	5.59	80	5.71	9	55
	8	S	17.20	.92	4.76	69	6.65	6-6	57
		D	17.20	12.96	.06	67	7.69	7-4	80

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1945									
6.ii	2	S	21.70	15.64	4.90	91		0	0
		D	21.30	.57	.76	87		0	0
	3	S	21.70	.62	.93	91		0	0
		D	20.50	.10	.93	89		0	0
	4	S	21.60	.58	.74	87		0	0
		D	21.75	.63	5.07	93		0	0
	5	S	21.50	.77	4.65	85		0	0
		D	21.70	.58	.26	78		0	0
	6	S	21.55	.47	5.23	96		0	0
		D	22.10	.58	.14	95		0	0
	7	S	23.90	13.82	4.97	93		0	29
		D	22.15	14.50	.17	76		0	0
	8	S	22.65	.89	3.45	64		0	0
		D	22.60	15.42	0.65	12			
25.viii	3	S	11.90	0.08	5.23	68		0	0
26.viii	8	S	11.45	.09	6.25	81		0	0
		D	11.50	.07	4.50	58		0	0
27.viii	5	S	11.90	.91	5.40	71		0	0
		D	12.00	3.78	3.16	43		0	145
	6	S	12.90	0.11	.14	42		0	0
		D	12.40	8.74	1.53	22		0	0
	7	S	11.50	0.15	3.84	50		0	0
		D	11.50	1.41	2.50	35			
1946									
13.iii	2	S	20.30	16.37	6.57	119		0	0
		D	20.05	.52	.27	114		2	0
	3	S	20.45	.20	5.90	107		20	0
		D	20.30	.23	3.36	61		20	0
	4	S	19.70	.18	6.42	115		9	0
		D	19.10	.15	.23	110		9	0
	5	S	19.50	.00	.30	112		0	337
		D	19.30	.16	5.65	101		9	450
	6	S	19.40	.03	6.88	122		6	530
		D	19.00	.35	2.92	52		0	60
	8	S	22.50	15.42	4.98	83		3	0
		D	20.00	.86	1.63	29		13	170
14.iii	7	S	19.40	14.83	6.23	109		0	0
		D	20.00	15.47	4.50	76		20	200

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
4. vii	3	S	11.30	14.85	5.90	89			5
		D	11.10	.90	4.33	65			13
	4	S	10.90	15.03	6.32	95			3
		D	10.80	14.95	.50	98			3
	5	S	11.50	.90	.80	104			5
		D	11.00	.75	.25	94			7
	6	S	11.00	.70	.51	98			8
		D	10.90	.60	7.44	111			11
5. vii	8	S	11.00	2.22	5.14	67			19
		D	11.90	15.15					15
6. vii	7	S	10.90	13.66	.40	67			150
		D	11.80	14.75	3.42	52			160
29. ix	1	S	20.20	13.38	5.10	89		2	5
	3	S	18.80	12.23	.07	86		1	11
	4	S	17.70	.23	.16	86		0	16
		D	16.60	.23	.32	87		0	10
	5	S	17.60	11.98	.32	88		0	9
		D	16.80	12.18	.03	82		0	5
	6	S	17.45	11.93	.42	89		1	9
		D	16.85	12.18	.30	87		1	7
	8	S	10.80	10.28	3.77	54		1	12
		D	9.90	11.78				0	16
1947									
23. iv	7	S	18.55	1.02	4.75	71		9	670
		D	18.70	13.01	0.00	0		4	410
24. iv	1	S	18.75	15.49	5.20	91		0	8
	2	S	19.20	.53	.65	100		1	46
		D	18.00	.56	.40	93		4	63
	3	S	19.70	.47	.40	96		5	26
		D	18.70	.53	.40	96		4	28
	4	S	18.30	.58	.46	95		1	28
		D	17.85	.58	.27	91		1	28
	5	S	18.30	.61	.20	91		1	43
		D	18.10	.63	.20	90		0	49
	6	S	18.30	.53	.52	96		0	43
		D	18.00	.53	.62	97		1	49
	8	S	20.90	12.96	.95	105		0	8
		D	19.00	14.95	2.75	48		0	11

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
7.ix	1	S	15.50	7.26	6.42	97		18	22
		D	16.00	18.16	4.88	75		11	6
	2	S	14.60	7.19	6.28	93		10	28
		D	14.50	14.23	4.15	59		8	28
	3	S	13.75	6.56	6.16	89		10	20
		D	13.80	8.16	5.73	84		10	30
	4	S	13.90	6.59	.65	82		18	28
		D	14.50	15.81	1.34	22		5	30
	5	S	14.00	7.14	6.16	90		12	11
		D	13.60	.61	5.88	86		11	28
	6	S	14.10	6.49	6.09	88		10	28
		D	13.40	9.30	5.82	86		10	28
	8	S	10.80	0.43	.82	74		37	3
		D	13.80	9.28	2.32	35		12	67
8.ix	7	S	11.30	0.56	5.73	74		20	3
		D	11.80	.97	.73	75		20	0
1948									
24.ii	1	S	23.00	15.39	5.42	102		24	3
		D	23.55	19.30	4.61	91		13	3
	2	S	22.50	14.90	5.12	95		14	3
		D	22.60	15.27	4.83	90		31	0
	3	S	22.40	13.64	.83	88		31	3
		D	22.50	14.72	.63	86		27	0
	4	S	23.00	.72	.81	90		13	3
		D	23.00	.72	.97	93		27	0
	5	S	22.60	.50	5.31	98		10	3
		D	22.70	.50	.30	98		12	3
	6	S	22.50	.50	.05	93		12	3
		D	22.60	.47	4.91	91		9	0
	7	S	24.20	13.73	5.03	95		6	3
		D	22.30	14.16	3.92	72		11	6
	8	S	24.40	12.61	4.44	83		31	3
		D	23.30	14.40	3.32	62		13	6

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
30-31. x	1	S	16.60	12.73	6.58	108		2	12
		D	16.30	16.78	4.46	76		12	9
	2	S	16.50	12.15	6.27	102		2	5
		D	16.20	.35	.27	101		1	9
	3	S	15.40	11.40	.27	99		2	0
		D	15.40	12.05	.27	100		2	2
	4	S	15.40	11.70	.39	101		1	2
		D	15.30	.82	.27	99		1	18
	5	S	15.30	.17	.39	100		0	15
		D	14.70	.12	.33	98		0	2
	6	S	15.40	.12	.44	101		1	9
		D	14.90	.12	.51	101		0	5
	7	S	14.90	7.25	.14	92			5
		D	16.60	10.32	4.87	78		0	12
	8	S	16.20	5.56	.81	72		0	5
		D	17.20	11.87	3.61	59		0	18
1949									
4. v	1	S	16.40	16.35	6.15	104		3	0
		D	16.10	.32	.10	103		5	0
	2	S	16.00	.58	.15	103		6	0
		D	16.00	.57	5.97	101		7	0
	3	S	16.00	.58	.72	98		8	0
		D	16.00	.58	.72	98		4	0
	4	S	15.80	.58	.80	98		6	0
		D.	15.50	.60	6.03	101		7	0
	5	S	15.50	.56	5.65	95		8	0
		D	15.50	.55	.55	93		3	0
	6	S	15.80	.58	6.35	107		5	0
		D	15.50	.56	.15	103		0	0
	7	S	16.10	.01	4.60	77		5	0
		D	16.50	.06	.93	84		2	0
	8	S	17.30	.05	3.62	62		5	0
		D	16.70	.45	2.15	37		6	0

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
25. viii	1	S	18.20	17.94	6.17	110		7	
		D	18.30	19.23	5.80	105		7	
	2	S	14.10	11.84	6.25	97		8	
		D	13.90	.92	.10	94		7	
	3	S	13.90	.69	.00	92		0	
		D	14.00	.74	.20	95		0	
	4	S	13.80	.79	.17	95		9	
		D	13.80	.82	.05	93		0	
	5	S	13.90	.69	.15	95		8	
		D	14.00	12.33	5.15	80		5	
	6	S	13.90		6.10				
		D	13.80	11.62	.10	94		0	
	7	S	12.00	0.97	5.75	77		2	
		D	13.50	12.53	1.16	18		4	
	8	S	13.20	7.13	5.40	78		3	
		D	12.90	13.23	0.50	8		2	
1950									
28. iv	1	S	17.10	17.82	5.89	103		8-10	0
		D	16.50	.84	.50	95		10-5	0
	2	S	17.70	.72	.38	95		5	0
		D	17.70	.74	.31	94		6	0
	3	S	17.50	.68	.13	90		6	0
		D	17.40	.69	.07	89		6	0
	4	S	17.90	.77	.34	95		6-11	0
		D	17.90	.82	.19	92		3-11	0
	5	S	17.20	.79	.55	97		7	0
		D	17.20	.84	.62	99		6	0
	6	S	17.40	.82	.41	95		6-12	0
		D	17.30	.87	.44	95		5-13	0
	7	S	17.00	16.79	4.77	82		7-8	0
		D	16.90	17.15	5.00	86		2-20	0
	8	S	18.80	.35	.37	96		6-28	0
		D	17.80	.54	4.06	79		9-11	0

Location: WILSON'S INLET

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1950									
3-4. xi	1	S	16.90	7.97	5.35	85	7.66	5	68
		D	17.10	12.90	4.25	71	.91	2	31
	2	S	16.80	7.51	5.50	85	.54	7-3	71
		D	16.70	8.09	.35	84	.55	4-24	130
	3	S	17.10	.16	.35	84	.51	7	77
		D	16.80	.10	.09	80	.52	5	115
	4	S	16.70	.07	.30	83	.58	6-6	45
		D	16.60	.06	.14	80	.59	6-8	53
	5	S	16.40	7.27	.05	78	.57	7	42
		D	16.30	.49	.35	82	.58	8	50
	6	S	16.70	.54	.61	86	.58	6-5	46
		D	17.30	14.14	3.32	56	.78	8-4	56
	7	S	18.30	4.49	4.18	65	.01	10-4	41
		D	16.50	6.45	5.21	78	.46	6-12	41
	8	S	16.40	0.77	4.25	61	6.23	11-4	72
		D	17.50	9.17	3.51	56	7.21	13-15	61

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1945									
6.ii	3	S	20.50	20.26	5.15	98		0	0
		D	20.10	.37	.15	97		0	0
	4	S	20.75	.08	.66	108		0	0
		D	20.70	.09	.37	102		0	0
	5	S	22.20	.94	4.39	86		0	0
		D	22.15	.95	.66	92		0	0
	6	S	21.55	.89	.67	91		0	0
		D	21.35	.95	.53	88		0	0
	7	S	26.45	17.68	2.49	51		0	0
		D	26.25	.98	1.88	38		0	0
	8	S	25.30	20.96	4.40	91		0	0
		D	24.60	.08	3.16	64		0	0
23.viii	3	S	13.35	18.69				0	0
		D	13.70	.93				0	0
	5	S	13.40	1.28				0	0
		D	13.50	11.12				0	0
	6	S	12.75	0.31				0	0
		D	12.75	.91				0	0
	7	S	12.55	.36				0	47
	8	S	12.90	.09				0	0
		D	12.80	.28					
1946									
13-14.iii	3	S	19.70	20.28	4.87	91		0	0
		D	17.65	.18	.61	85		15	33
	5	S	19.40	.64	.52	85		0	0
		D	19.40	.61	3.38	63		14	80
	6	S	18.20	.52	1.65	30		0	0
		D	18.20	.56	3.48	64		20	190
	7	S	23.65	17.57	.46	67		6	4
		D	22.80	.65	1.89	36		9	0
	8	S	22.35	.49	3.80	72		16	0
		D	22.40	.99	4.55	87		13	335

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1946									
6. vii	3	S	12.80	19.35	5.40	89			5
		D	12.70	.35	4.86	80			8
	5	S	11.60	17.87	6.32	100			11
		D	12.20	16.54	5.85	92			27
	6	S	10.70	14.05	.65	84			45
		D	12.00	17.52	4.89	78			28
	7	S	10.80	1.14	.36	56			320
	8	S	10.60	.81	6.55	85			22
		D	11.20	12.46	.71	99			20
1. x	1	S	16.30	19.61	5.65	98		6	5
		D	16.00	.58	.48	96		6	5
	2	S	16.35	15.58	.48	93		6	5
		D	16.00	19.63	.48	96		8	1
	3	S	16.00	.63	.56	98		10	0
		D	15.90	.61	.48	96		10	0
	4	S	16.70	.48	.53	98		10	0
		D	16.70	.48	.43	98		14	0
	5	S	19.70	17.31	.56	101		21	1
	6	S	19.00	.22	.04	91		21	0
	7	S	17.85	1.94	.97	75		44	1
	8	S	18.00	10.83	3.16	47		19	5
1947									
23. iv	1	S	20.40	19.84	5.32	101		0	5
		D	19.30	.87	.35	100		0	5
	2	S	20.20	.84	.25	102		0	5
		D	18.60	.82	.55	102		0	5
	3	S	19.40	.75	.44	101		1	2
		D	18.15	.78	.41	97		0	5
	4	S	19.90	.38	.55	103		0	5
		D	19.70	.48	.44	101		0	5
	5	S	21.25	.02	6.10	116		2	5
	6	S	18.50	15.63	4.14	72		2	78
	7	S	17.40	0.71	3.21	47		0	670
	8	S	19.00	12.22	1.89	32		0	69

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1947									
8. ix	1	S	17.50	19.69	5.47	98		1	3
		D	17.40	.67	.52	99		1	3
	2	S	17.40	.67	.47	98		5	0
		D	16.40	.65	.58	98		6	0
	3	S	15.20	.36	.94	102		6	3
		D	14.75	.36	.80	99		5	0
	4	S	15.30	18.35	6.10	104		3	0
		D	15.30	.65	5.73	97		6	0
	5	S	15.40	5.95	.58	83		11	0
	6	S	17.70	10.44	4.93	73		14	14
	7	S	13.75	0.67	5.06	69		12	11
	8	S	13.50	.34	.44	74		16	14
		D	15.60	5.05	4.23	62		17	17
1948									
23. ii	1	S	20.90	19.77	5.46	104		9	6
		D	20.70	.80	.30	100		10	11
	2	S	21.30	.89	.48	105		12	3
		D	21.40	.93	.39	104		10	3
	3	S	21.90	20.06	.26	102		13	0
		D	21.50	.13	.03	97		10	3
	4	S	22.50	19.93	6.03	118		9	3
		D	22.00	20.01	4.81	93		16	3
	5	S	21.00	.41	3.30	63		13	3
	6	S	21.80	.47	.27	64		16	3
	7	S	28,30	10.70	.54	69		16	0
	8	S	25.60	15.64	.60	71		24	6
6. v	4	S	18.05	19.80	5.74	104		0	3
		D	18.10	.81	.32	97		5	6
	5	S	18.20	18.22	.50	98		6	8
	6	S	17.40	.62	.28	93		3	6
	7	S	19.20	15.21	3.09	54		5	6
	8	S	18.40	.95	.64	64		1	6

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1948									
15. vii	1	S	18.60	19.69	5.41	99		0	3
		D	18.00	.68	.41	98		4	6
	2	S	17.30	.67	.53	99		5	6
		D	15.60	.69	.47	95		0	0
	3	S	15.00	.62	.90	101		0	0
		D	14.70	.62	.88	101		5	10
	4	S	12.80	18.96	6.19	101		3	6
		D	12.50	19.27	5.95	98		5	6
	5	S	12.20	13.24	6.30	95		6	6
	6	S	12.60	17.49	5.79	93		3	35
	7	S	10.60	1.18	.90	76		6	10
	8	S	11.70	11.50	4.66	68		3	10
29. x-1. xi	1	S	17.40	19.70	5.93	106		0	9
		D	16.80	.72	.93	105		0	15
	2	S	17.10	.70	.86	105		0	9
		D	21.90	.72	6.27	121		2	12
	3	S	16.80	.67	.04	107		0	5
		D	22.00	.65	.20	120		0	5
	4	S	16.60	.36	7.45	131		0	24
		D	17.50	.41	6.26	112		1	18
	5	S	17.00	18.87	.01	106		0	15
	6	S	15.10	.11	5.34	90		1	9
	7	S	17.40	2.04	.52	82		4	12
	8	S	18.40	4.46	4.46	69			30
		D	17.70	14.39	3.15	53		14	61
1949									
3. v	1	S	21.25	19.70	5.22	100		6	0
		D	20.50	.65	.22	99		4	0
	2	S	19.10	.75	.35	99		3	0
		D	19.10	.77	.30	98		2	0
	3	S	19.50	.79	.50	103		2	0
		D	16.70	.78	.40	96		4	0
	5	S	16.90	.41	6.03	106		5	0
	6	S	15.50	.42	5.73	100		7	0
	7	S	18.10	10.35	3.44	57		11	0
	8	S	16.80	12.39	4.07	66		4	8
		D	16.30	16.08	3.16	54		16	20

Location: KING GEORGE SOUND

Date	Station	Depth	Temp. °C.	Cl °/oo	O_2	O_2 %	pH	PO_4-P	NO_3-N
1949									
24. viii	1	S	17.85	19.54	5.82	105		0	
		D	17.55	.54	.80	104		0	
	2	S	17.30	.50	.71	101		3	
		D	16.50	.40	.93	104		3	
	3	S	15.10	.14	6.15	105		6	
		D	15.10	.14	.20	106		3	
	4	S	14.70	18.43	.38	107		3	
		D	14.90	.52	.20	105		4	
	5	S	15.10	15.05	.30	103		7	
	6	S	14.50	13.25	5.88	93		0	
	7	S	12.70	1.23	.50	74		5	
	8	S	13.60	9.85	2.99	45		7	
		D	13.60	8.18	3.55	52		9	
1950									
26-27. iv	1	S	20.50	19.84	5.26	100		5-7	0
		D	19.90	.99	.07	96		10-0	0
	2	S	20.50	.89	.26	100		10	0
		D	19.60	20.01	3.92	73		6	0
	3	S	19.60	19.96	5.32	100		8	0
		D	18.50	20.13	4.96	91		2	0
	4	S	19.70	19.96	5.66	105		6-1	0
		D	19.40	20.01	6.10	114		6-3	0
	5	S	18.30	.30	.14	112		7-8	0
	6	S	16.70	.81	5.33	96		9-0	0
	7	S	16.20	0.54	.93	85		4	0
	8	S	18.70	17.81	3.50	63		2	0
2. xi	1	S	17.70	19.70	5.50	100	8.31	6	0
		D	17.70	.69	.57	101	.35	7	0
	2	S	17.30	.67	.52	99	.35	4	0
		D	17.30	.67	.38	96	.35	4	0
	3	S	17.00	.61	4.47	80	.40	9	0
		D	16.90	.60	5.52	99	.41	6	0
	4	S	17.40	.25	.78	103	.43	5	0
		D	17.30	.25	.58	100	.43	7	0
	5	S	16.90	16.69	.50	95	.28	6-3	0
	6	S	18.00	.06	4.98	87	.32	6-1	0
	7	S	17.80	1.10	3.57	53	6.95	6	72
	8	S	20.50	11.20	2.45	42	7.45	8	61

SECTION C

RECORDS OF TWENTY-FOUR HOURLY HYDROLOGICAL OBSERVATIONS IN SOUTH-WESTERN AUSTRALIA

SWAN RIVER, 1946-50, PEEL-HARVEY INLET, LESCHENAULT INLET, HARDY INLET, NORNALUP INLET, WILSON'S INLET, KING GEORGE SOUND, 1948

(*a*) *Location of Stations*

The position of stations mentioned in this section can be ascertained from Table 3, Section B.

(*b*) *Methods*

Hourly observations were made over a 24-hour period in the same way as described by Rochford (1951).

In June and July 1947, during the period of maximum freshwater discharge, simultaneous hydrological observations were made on both surface and subsurface waters (depth approximately 6 metres) at the Fremantle Traffic Bridge, in the Swan River. These data are recorded as surface and bottom observations.

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1946									
23. viii	9 am	71		13.5	0.97	5.80	79	6	145
	10	71		.7					
	11	71		.7	.97	.65	77	6	160
	12 n	70		14.0					
	1 pm	69		.2	.97	.68	78	6	170
	2	68		.3					
	3	66		.5	.97	.76	80	5	160
	4	65		.7					
	5	65		.5	.97	.73	79	3	170
	6	64		.3					
	7	63		.2	.97	.83	80	6	160
	8	63		.1					
	9	61		13.9	.97	.86	80	6	160
	10	61		.9					
	11	61		.8	.97	.86	80	7	170
	12 m	61		.8					
24. viii	1 am	62		.8	.97	.69	78	12	170
	2	63		.7					
	3	65		.7	.97	.83	79	8	170
	4	66		.7					
	5	67		.2	.97	4.82	65	5	185
	6	69		.4					
	7	70		.4	.97	5.68	77	6	175
	8	73		.4					
	9	74		.5	.97	.59	76	6	170

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1946									
19. ix	10 am	48	21.1	17.4	1.86	6.30	93	7	160
	11	48	22.2	.2					
	12 n	47	23.9	.1	.86	.37	94	11	160
	1 pm	46	26.1	.5					
	2	44	.1	.6	.86	.46	95	10	165
	3	42	25.8	18.0					
	4	42	.3	.0	.86	.61	99	8	165
	5	41	.5	.0					
	6	41	23.9	.0	.86	.73	100	7	160
	7	41	22.2	17.9					
	8	43	18.0	.4	.91	.58	97	6	165
	9	45	.3	.2					
	10	47	17.8	16.8	2.16	.00	87	6	165
	11	48	.8	.8					
	12 m	48	.2	.7	.27	.32	92	11	140
20. ix	1 am	50	16.9	.5					
	2	50	.9	.4	4.67	.19	92	11	140
	3	51	15.0	.4					
	4	53	14.4	.6	6.45	.00	92	11	145
	5	53	.7	.4					
	6	54	13.6	.4	12.50	.19	101	8	145
	7	55	.3	.3					
	8	55	16.6	.4	10.70	5.40	86	10	105
	9	54	17.7	.2					
	10	54	19.2	.2	9.94	.46	86	10	105

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947			Sky						
6.iii	10 am	42	8	24.4	17.39	3.28	65	6	37
	11	42	6	.5					
	12 n	43	6	.4	16.88	.48	68	2	37
	1 pm	44	3	.6					
	2	44	1	.7	17.23	4.35	86	2	41
	3	45	0	25.0					
	4	45	0	.3	.42	.80	96	2	37
	5	46	0	.4					
	6	47	0	.2	.57	.85	97	0	22
	7	48	0	.0					
	8	49	0	.0	.67	.80	96	1	28
	9	50	0	24.6					
	10	50	0	.4	.72	.35	86	1	26
	11	51	4	.3					
	12 m	51	6	.0	.81	.10	80	1	26
7.iii	1 am	54	6	23.8					
	2	53	6	.9	.86	3.83	75	5	20
	3	51	5	.6					
	4	49	6	.4	.67	.76	73	3	26
	5	48	6	.7					
	6	46	4	.9	.32	.32	65	5	28
	7	45	4	.9					
	8	44	4	24.1	.23	2.96	58	6	31
	9	43	4	23.9					
	10	42	5	24.3	16.49	3.35	65	5	41
			Air Temp.						
20.iii	10 am	42	27.0	25.4	17.02	3.20	64	3	11
	11	44	.5	.6					
	12 n	45	29.5	.6	.09	4.02	80	4	14
	1 pm	46	31.1	.8					
	2	46	.7	.8	.38	.85	97	2	11
	3	47	29.5	26.7					
	4	48	.3	27.3	.09	.90	101	4	17
	5	48	.0	.2					
	6	49	28.0	.2	.34	.97	102	2	14
	7	50	26.5	26.8					
	8	52	25.8	.4	.53	5.30	108	5	14
	9	54	.2	.3					

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
20. iii	10 pm	54	24.5	26.1	17.73	5.50	112	3	8
	11	54	23.5	25.9					
	12 m	56	22.9	.8	18.05	4.40	89	4	8
21. iii	1 am	53	.9	.7					
	2	52	.9	.7	17.73	3.82	77	2	8
	3	51	.4	.4					
	4	48	.4	.6	.48	.62	73	2	11
	5	47	21.8	.7					
	6	46	.8	.7	.53	.13	67	2	11
	7	45	.2	.8					
	8	44	22.9	.8	.38	.06	61	3	8
	9	44	25.5	.8					
	10	45	29.5	.9	.53	.70	74	3	6
17. iv	12 n	55	19.2		17.34	4.98		8	37
	1 pm	55	.7						
	2	55	20.8		.19	5.02		8	55
	3	55	21.8						
	4	54	.1		.00	4.95		10	49
	5	54	19.7						
	6	54	18.5		16.85	5.05		9	43
	7	55	.5						
	8	54	.1		.83	4.75		10	58
	9	53	.1						
	10	54	17.7		.93	.85		9	53
	11	53	.1						
	12 m	52	.1		17.05	.42		10	53
18. iv	1 am	50	16.8						
	2	49	.8		16.25	3.85		11	72
	3	48	17.4						
	4	46	.9		15.97	.85		11	84
	5	45	.4						
	6	44	.1		.66	.50		9	88
	7	44	.1						
	8	45	.9		.83	.38		10	78
	9	45	18.5						
	10	46	.8		16.05	4.62		9	81
	11	48	19.0						
	12 n	48	.7		.10	.90		9	55

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
13. v	8 am	51	17.2	17.6	14.37	5.10	86	7	96
	9	52	.2	18.0					
	10	53	18.3	.1	.52	4.91	84	7	93
	11	55	20.4	19.1					
	12 n	56	.1	.1	16.00	5.04	89	5	70
	1 pm	57	.4	.3					
	2	58	.8	.5	.74	4.91	88	2	47
	3	59	.8	.6					
	4	60	.4	.6	17.23	.91	89	2	37
	5	60	.1	.6					
	6	60	19.5	.6	.28	.85	88	2	31
	7	60	18.8	.4					
	8	59	19.4	18.9	16.37	5.21	92	5	64
	9	59	.0	.9					
	10	58	18.8	.9	.27	.04	89	5	56
	11	57	.5	.6					
	12 m	57	.8	.2	18.19	3.13	56	1	20
14. v	1 am	57	19.0	.3					
	2	58	18.8	19.1	.26	.13	57	0	16
	3	57	17.9	.1					
	4	57	.2	.1	.35	.00	55	0	13
	5	57	.2	18.9					
	6	58	.2	.6	.16	.13	56	0	16
	7	58	.5	.5					
	8	59	.5	.5	17.99	.86	69	1	22

SWAN RIVER NO. 2 - FREMANTLE BRIDGE -

Location: SURFACE OBSERVATIONS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
30. vi	10 am	40	17.9	16.8	19.30	5.06	89	6	8
	11	38	.9	.1					
	12 n	35	.9	15.6	13.56	.73	93	8	148
	1 pm	33	.9	14.5					
	2	30	.9	.5	7.32	6.02	89	9	405
	3	25	16.8	.5					
	4	24	.8	.3	6.31	.07	88	8	340
	5	23	15.5	.3					
	6	24	.0	.3	.66	.07	89	10	295
	7	25	.0	.2					
	8	26	14.5	.1	.36	5.78	84	10	405
	9	28	12.1	.0					
	10	30	11.0	.0	.69	.78	84	9	340
	11	33	.0	13.9					
	12 m	30	10.5	.9	.41	.57	82	8	405
1. vii	1 am	36	.0	14.0					
	2	34	.0	.0	.66	.95	86	10	405
	3	36	.0	.0					
	4	37	9.4	.3	.76	.95	87	8	405
	5	42	.4						
	6	42	8.9	15.3	12.61	.57	89	8	405
	7	45	.2	16.9					
	8	46	.2	17.0	18.57	4.92	86	4	31
	9	43	.5	16.9					
	10	41	10.5	.8	17.57	5.26	91	4	56

SWAN RIVER NO. 2 - FREMANTLE BRIDGE -

Location: OBSERVATIONS AT 15 FEET

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
30. vi	10 am			16.7	19.23	5.09	90	10	2
	11			.8					
	12 n			.8	.28	.52	97	2	0
	1 pm			.9					
	2			.6	18.01	.30	92	3	29
	3			15.9					
	4			.7	14.48	.67	93	5	155
	5			.4					
	6			.5	13.46	.52	89	9	165
	7			.5					
	8			.8	14.10	.52	90	9	148
	9			16.7					
	10			.8	18.99	4.63	81	1	2
	11			.8					
	12 m			.7	19.28	5.18	91	1	2
1. vii	1 am			.8					
	2			.6	.40	.15	91	2	2
	3			.8					
	4			.8	.35	.15	90	7	5
	6			17.0	.43	.15	90	1	5
	7			16.4					
	8			.9	.53	4.98	88	5	0
	9			17.2					
	10			16.9	.30	5.09	90	4	5

SWAN RIVER NO. 2 - FREMANTLE BRIDGE -

Location: SURFACE OBSERVATIONS

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
23. vii	9 am	45	13.2	15.9	14.68	5.34	88	8	112
	10	44	14.5	.9					
	11	44	.5	16.3	6.45	.72	87	21	286
	12 n	45	15.0	.4					
	1 pm	43	17.1	.4	11.06	.40	86	11	160
	2	45	15.5	.4					
	3	42	16.1	.1	7.39	.85	89	18	286
	4	40	.1	.1					
	5	40	.5	15.6	6.38	6.09	91	11	286
	6	36	.8	14.7					
	7	36	13.0	.4	3.70	.37	91	22	326
	8	37	11.5	.4					
	9	39	10.5	.2	.15	.28	88	18	286
	10	40	11.0	.2					
	11	42	.0	.1	2.50	.31	88	15	286
	12 m	42	.0	.0					
24. vii	1 am	41	.0	.1	.15	.31	88	27	286
	2	42	15.0	13.9					
	3	42	.0	14.0	3.35	.31	89	13	286
	4	42	.0	.0					
	5	44	.0	13.9	.96	.37	90	17	286
	6	42	.5	.9					
	7	42	.5	14.0	4.54	.28	93	16	255
	8	42	12.9	13.8					
	9	42	14.1	.9	5.65	.37	92	15	286

SWAN RIVER NO. 2 - FREMANTLE BRIDGE - OBSERVATIONS AT 15 FEET

Location:

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 %	PO_4-P	NO_3-N
1947									
23. vii	9 am			16.6	18.97	4.93	86	7	3
	10			.6					
	11			.6	19.26	5.27	93	7	0
	12 n			.6					
	1 pm			.7	18.97	.27	93	8	6
	2			.6					
	3			.6	19.12	4.99	88	6	3
	4			.6					
	5			.6	.12	5.34	94	0	3
	6			.5					
	7			.5	18.89	.40	94	7	6
	8			.5					
	9			.5	19.12	.09	89	3	6
	10			.3					
	11			.4	.19	.20	91	1	3
	12 m			.6					
24. vii	1 am			.6	.23	.20	91	8	0
	2			.6					
	3			.6	.26	.27	93	6	0
	4			.5					
	5			.6	18.99	.27	93	4	0
	6			.3					
	7			.1	17.53	.68	97	7	47
	8			.2					
	9			.2	.65	.57	96	6	31

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
20. viii	9 am	42	11.5	13.6	4.70	6.12	87	8	37
	10	43	15.0	14.3					
	11	45	.9	13.7	.12	5.45	77	8	2
	12 n	46	16.2	.8					
	1 pm	47	25.5	14.1	.12	6.12	87	8	0
	2	47	22.2	.4					
	3	47	20.1	.6	3.99	.12	88	6	0
	4	46	.6	.7					
	5	43	15.5	.7	.92	.48	93	8	0
	6	43	.2	.6					
	7	44	13.6	.6	.89	7.30	104	6	2
	8	44	.0	.6					
	9	45	.6	.4	.78	.00	99	5	18
	10	46	.0	.4					
	11	47	12.1	.3	.92	6.88	98	6	0
	12 m	48	.1	.3					
21. viii	1 am	48	.1	.2	4.17	.82	97	4	6
	2	49	.1	.2					
	3	49	.8	.1	.09	.88	98	6	31
	4	49	.1	.1					
	5	49	.1	13.9	.17	.72	95	6	0
	6	49	11.5	.9					
	7	48	.5	.9	.17	.57	90	6	2
	8	47	12.1	14.9					
	9	47	11.5	15.1	7.08	.20	93	5	6
23. x	9 am	30	21.6	17.9	8.59	5.94	95	5	34
	10	29	20.1	18.3					
	11	28	21.6	.9	.51	.94	97	4	34
	12 n	27	22.1	19.0					
	1 pm	25	.1	.6	.56	6.13	101	5	30
	2	25	24.0	.9					
	3	24	25.0	.6	.36	.19	102	5	22
	4	24	24.5	.9					
	5	23	.0	.9	.29	.00	99	5	30
	6	24	.5	.6					
	8	25	21.6	.2	9.61	.13	101	5	30
	9	26	19.1	18.6	12.37	5.82	98	5	30

Location: SWAN RIVER NO. 3 - BILLYGOAT FARM

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
23. x	10 pm	27	18.2	18.6					
	11	29	.0	.7	8.96	5.88	96	5	34
	12 m	30	.2	.8					
24. x	1 am	31	.0	.2	.91	.69	92	5	36
	2	32	.0	.2					
	3	34	16.5	.4	9.34	.88	96	5	34
	4	35	.5	.0					
	5	36	.8	17.8	.21	.88	96	6	34
	6	35	.8	.8					
	7	35	17.0	.7	8.94	6.07	97	4	34
	8	35	.2	.7					
	9	35	18.3	.8	.91	.00	96	5	28

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1947									
27. xi	8 am	41	20.5	22.2	12.58	4.94	89	0	6
	9	41	.5	.3					
	10	40	.9	.3	11.35	5.06	90	0	8
	11	40	.9	.4					
	12 n	40	21.2	.7	.18	.06	90	0	3
	1 pm	40	.2	23.0					
	2	41	.5	.2	10.90	.48	98	0	6
	3	42	22.2	22.7					
	4	43	.8	.7	11.98	.06	91	0	6
	5	43	21.8	.8					
	6	45	.5	.6	12.13	.13	92	0	0
	8	48	.2	.5	.15	4.76	86	0	8
	9	49	20.8	.3					
	10	51	.5	.3	11.93	.69	84	0	8
	11	52	19.5	.0					
	12 m	52	.0	21.8	.78	.76	84	0	6
28. xi	1 am	51	18.4	.6					
	2	49	17.2	.6	.80	.88	86	0	6
	3	48	16.8	.0					
	4	47	.5	20.7	.48	.57	79	0	0
	5	45	.5	.6					
	6	42	17.0	.4	.58	.50	78	0	6
	7	41	18.4	.3					
	8	41	19.0	.7	.65	.69	81	0	3
1948									
28. iv	10 am	46	19.8	17.8	18.87	5.35	96	1	3
	11	48	20.2	18.0					
	12 n	49	.6	.0	.95	.71	103	1	6
	1 pm	50	.4	.1					
	2	51	.8	.3	.88	.67	102	1	6
	3	51	21.1	19.1					
	4	51	.0	.2	.98	.64	103	1	8
	5	50	20.8	.2					
	6	49	21.0	.4	.93	.77	106	3	3
	7	48	20.4	18.7					
	8	47	.2	.8	19.08	.71	104	4	8
	9	46	.0	.5					

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
28.iv	10 pm	45	19.8	18.5	19.28	5.74	105	4	6
	11	44	.6	17.9					
	12 m	42	.4	18.5	.22	.61	102	3	6
29.iv	1 am	41	18.8	17.8					
	2	41	19.0	18.5	.26	.54	101	1	6
	3	40	18.2	.3					
	4	41	.0	.4	.17	.18	94	4	6
	5	41	.5	.3					
	6	42	19.2	.2	.23	.30	96	3	3
	7	43	.8	.3					
	8	45	.8	.3	.12	.15	93	1	3
	9	47	20.0	.3					
	10	50	.6	.3	18.97	.18	94	1	6

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
26. v	9 am	29	18.4	16.9	16.19	4.38	75	14	58
	10	30	16.0	.8					
	11	31	17.4	17.0	.91	.86	84	12	53
	12 n	32	19.8	.4					
	1 pm	34	20.2	.7	17.11	5.07	89	12	53
	2	35	.8	18.0					
	3	35	21.0	.5	.79	.48	98	10	45
	4	33	.0	.6					
	5	31	19.8	.5	.81	.33	95	13	36
	6	30	18.2	.4					
	7	29	17.2	.4	.62	4.89	87	10	42
	8	28	16.6	.4					
	9	26	15.4	.2	.55	.31	76	17	45
	10	25	14.6	17.8					
	11	24	.0	.5	.08	.06	71	18	53
27. v	1 am	21	13.4	18.4	.08	3.93	70	19	58
	2	21	.2	.2					
	3	20	.2	17.8	16.91	4.06	71	19	47
	4	21	12.8	.8					
	5	21	.0	18.0	.64	3.96	69	18	30
	6	23	.0	17.2					
	7	24	10.2	16.9	.05	4.38	75	14	30
	8	25	12.8	17.3					
	9	28	15.0	.1	.37	.67	80	14	33
27. vi	9 am	33	13.4	15.7	14.86	5.59	92	4	78
	10	34	.8	16.0					
	11	35	14.5	.0	.96			10	68
	12 n	36	16.5	15.7					
	1 pm	37	18.7	.0	13.73			9	106
	2	38	19.6	14.6					
	3	39	.7	15.0	12.98			7	106
	4	39	20.0	.0					
	5	37	19.8	.0	.68	6.07	96	11	120
	6	37	18.0	.3					
	7	36	17.0	.2	.09	5.53	88	13	125
	8	35	16.0	.2					
	9	34	15.2	.2	.14	4.19	66	7	114

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
27. vi	10 pm	33	14.6	15.7					
	11	32	.2	16.2	12.78	6.07	99	11	114
	12 m	32	13.6	.3					
28. vi	1 am	31	.2	15.9	13.63	5.90	96	13	78
	2	32	11.0	16.0					
	3	33	.2	.0	12.83	.86	95	7	110
	4	34	.7	15.4					
	5	36	12.0	.4	.88	.53	89	10	106
	6	36	11.6	.8					
	7	37	12.2	.7	14.37	.14	84	10	91
	8	37	13.2	.4					
	9	38	14.2	.5	.81	.42	89	12	88

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
4. viii	9 am	49	16.5	15.3	5.02	5.76	84	11	140
	10	51	17.2	.3					
	11	53	20.2	.4	.07	.74	84	12	146
	12 n	54	21.8	.5					
	1 pm	54	22.0	.6	7.55	.49	83	11	102
	2	53	20.2	.8					
	3	51	.0	16.2	5.73	6.06	91	15	133
	4	49	19.2	.2					
	5	48	15.8	.1	.30	.12	91	15	165
	6	47	14.0	15.9					
	7	46	.9	.8	.32	.06	90	12	97
	8	45	.9	.9					
	9	44	.6	.7	.20	5.94	88	14	146
	10	42	.6	.6					
	11	41	.2	.5	.32	.83	86	14	122
	12 m	41	.2	.7					
5. viii	1 am	42	13.2	.4	.52	.59	82	12	122
	2	42	.4	.4					
	3	42	.8	.4	.40	.83	86	14	140
	4	41	14.0	.4					
	5	42	13.2	.6	.37	.74	85	17	115
	6	43	.0	.3					
	7	44	.2	.2	.15	.79	85	14	146
	8	46	15.0	.2					
	9	48	16.6	.3	4.89	.83	85	14	146

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
29. xi	10am	15	29.0	25.3	6.92	4.60	82	7	80
	11	16	.8	.7					
	12 n	17	31.2	26.1	.71	.87	88	11	73
	1 pm	18	32.5	.1					
	2	19	33.0	.3	.97			9	92
	3	19	32.8	.7					
	4	22	30.2	27.6	7.20	6.39	119	10	73
	5	23	29.0	28.0					
	6	24	27.0	.1	.82	.91	130	8	64
	8	28	25.0	27.7	9.26	.55	124	5	47
	9	29	.0	.4					
	10	31	24.2	26.9	.31	.28	117	5	34
	11	32	.0	.7					
	12 m	33	23.8	.4	.83	5.59	104	3	12
30. xi	1 am	33	22.5	.0					
	2	32	.2	25.4	8.70	4.92	89	4	40
	3	30	.5	.2					
	4	28	.8	.2	.60	.15	75	5	34
	5	27	.0	24.9					
	6	25	.0	25.8	9.16	3.94	72	7	47
	7	23	23.0	.8					
	8	22	24.5	26.0	.63	4.34	81	4	30
	9	22	.0	25.5					
	10	22	22.5	.6	8.92	.80	88	4	21
1950									
14. ii	9 am	26	23.5	29.7	18.01	4.59	100	17-0	5
	10	25	24.8	30.5					
	11	25	27.5	29.5	17.97	6.10	131	18-12	12
	12 n	26	28.0	26.5					
	1 pm	29	26.5	27.9	18.26	5.38	113	13-8	5
	2	30	27.5	.7					
	3	31	.0	.9	.50	.30	111	19-10	3
	4	32	25.8	28.0					
	5	33	26.5	27.7	.82	4.79	101	21-14	0
	7.30	38	23.5	26.8	.99	5.59	116	17-11	0
	8	39	.0	.6					

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1950									
14. ii	9 pm	39	22.5	26.6	19.04	5.03	104	17-11	0
	10	40	.2	25.9					
	11	41	.0	.8	.19	4.52	93	14-11	0
	12 m	41	21.8	26.0					
15. ii	1 am	39	.0	25.6	.19	.34	89	20-8	0
	2	37	.0	.7					
	3	36	20.8	.7	18.68	.74	97	9-11	0
	4	34	.2	.7					
	5	32	19.9	.5	.50	.20	85	7-9	0
	6	30	.5	.2					
	7	29	20.8	.4	.36	.26	86	7-17	0
	8	27	22.5	.5					
	9	25	23.8	.9	.21	5.03	102	8-24	0
15. iii	9 am	27	29.8	23.7	19.21	3.66	73	22-14	26
	10	28	30.2	.8					
	11	29	28.8	24.0	.28	4.50	89	17-11	18
	12 n	30	.2	.2					
	1 pm	31	29.2	.5	.54	.97	100	20-16	16
	2	32	.5	25.0					
	3	32	.0	.1	.67	6.50	133	22-10	0
	4	33	.8	.1					
	5	34	.9	.0	.54	.25	127	15-15	0
	6	35	27.5	24.9					
	7	36	25.0	.7	.88	.78	137	15-13	0
	8	38	24.6	.5					
	9	39	23.0	.4	.93	.32	127	21-17	0
	10	40	22.5	.2					
	11	40	.0	.1	.79	5.04	101	20-27	0
	12 m	39	21.8	23.9					
16. iii	1 am	38	20.2	.8	.93	.46	109	22-17	16
	2	36	.0	.6					
	3	35	.0	.5	.50	4.44	88	22-10	8
	4	34	19.8	.3					
	5	32	.0	.5	.57	.28	85	20-30	0
	6	30	17.8	.4					
	7	29	18.2	.7	.24	3.87	77	20-27	0
	8	28	19.0	.7					
	9	27	20.0	.8	.45	4.12	82	20-25	16

Location: SWAN RIVER NO. 8 - THE CAUSEWAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1950									
24. v	9 am	30	14.8	18.6	14.51	6.25	110	9-42	230
	10	30	15.6	.0					
	11	32	17.2	16.8	.21	.32	106	6-50	290
	12 n	33	18.8	17.7					
	1 pm	35	19.8	18.5	15.86	8.25	148	14-41	135
	2	36	20.5	19.0					
	3	37	.5	.2	16.84	7.60	135	6-37	145
	4	38	.5	.1					
	5	38	.5	.2	15.86	9.60	170	17-27	125
	6	37	19.0	.5					
	7	36	18.0	.2	13.92	.70	168	16-41	265
	8	35	16.0	.2					
	9	33	14.5	.2	15.00	7.90	138	17-28	215
	10	32	12.0	.1					
	11	30	13.5	18.9	14.83	6.65	116	7-39	215
	12 m	29	.2	.4					
25. v	1 am	27	.0	.2	.80	.15	106	5-36	175
	2	26	12.8	17.8					
	3	25	.0	18.2	15.74	.30	109	8-38	165
	4	25	.2	17.8					
	5	25	11.9	.6	12.56	.05	101	17-32	315
	6	26	.9	19.8					
	7	27	.5	17.7	.07	7.50	124	15-14	330
	8	28	.6	18.9					
	9	29	13.2	17.3	13.87	6.34	106	32-13	240

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1950									
13. vii	9 am	30	12.5	12.7	10.44	5.81	86	5-20	170
	10	31	.5	.9					
	11	32	19.5	13.9	.87	6.80	104	4-11	130
	12 n	31	20.2	.9					
	1 pm	30	21.0	14.0	11.99	7.95	122	2-22	90
	2	28	.5	.5					
	3	27	.5	15.2	13.18	8.20	131	9-21	49
	4	26	.5	.3					
	5	24	20.0	.3	12.56	6.81	108	4-15	84
	7	20	17.0	.1	14.79	.10	99	2-26	17
	9	19	16.0	.3	.86	.76	110	7-21	12
	10	18	.0	14.8					
	11	19	15.2	.3	12.64	.81	106	5-12	79
	12 m	20	.0	.5					
14. vii	1 am	20	14.8	.4	.78	.70	106	9-11	46
	2	21	.2	.3					
	3	22	.2	.4	.69	.70	106	6-9	65
	4	23	.0	.5					
	5	25	13.9	.4	.75	.64	104	6-5	72
	6	26	14.0	.3					
	7	28	.0	.2	.71	.25	98	5-10	65
	8	29	.5	.4					
	9	31	17.0	.4	.87	.30	99	7-18	53
9. viii	9 am	36	16.5	14.1	11.35	6.27	96	0-20	80
	10	35	.0	.2					
	11	34	.5	.3	.11	.48	100	4-12	52
	12 n	33	18.0	.5					
	1 pm	31	16.5	.6	04	.27	97	2-15	60
	2	29	17.5	15.4					
	3	28	15.5	14.7	.05	7.10	110	4-17	60
	4	26	.8	15.0					
	5	24	14.5	14.8	.06	.00	110	0-17	60
	7	21	12.5	.8	.06	6.48	102	4-12	65
	9	20	11.8	.3	9.38	.85	104	3-15	140
	10	20	.8	.5					
	11	21	.5	.3	.13	.53	99	5-17	160
	12 m	21	.8	.7					

Location: SWAN RIVER NO. 6 - CRAWLEY BAY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1950									
10. viii	1 am	22	12.0	14.7	9.62	6.20	94	2-13	160
	2	23	.5	.7					
	3	24	.5	.8	12.10	5.85	94	2-23	42
	4	26	.8	.5					
	5	27	.8	.4	10.90	.80	89	7-12	65
	6	29	13.2	.5					
	7	30	12.8	.5	11.23	.94	92	3-17	57
	8	32	13.8	.5					
	9	33	16.0	.4	.32	6.04	94	5-13	51

Location: PEEL-HARVEY INLET NO. 1 - MANDURAH

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
6.iii	12 n	53	27.8	23.5	20.16	5.00	100	12	0
	1 pm	53	.8	.5					
	2	53	29.0	.6	.19	4.95	99	13	0
	3	54	31.5	.5					
	4	54	28.2	24.0	.21	5.24	106	12	0
	5	54	27.2	.0					
	6	55	26.0	23.8	.24	.38	108	11	0
	7	54	25.0	.6					
	8	55	23.8	.5	.29	.03	101	11	0
	9	55	22.8	.4					
	10	55	.3	.4	.29	4.26	85	14	9
	11	55	21.5	22.8					
	12 m	54	20.9	.5	.29	.89	96	10	0
7.iii	1 am	54	.5	.4					
	2	53	19.5	.4	.29	.95	97	16	0
	3	52	.2	.8					
	4	52	.0	.3	.29	.91	96	12	0
	5	51	18.0	.3					
	6	51	.0	.3	.29	.63	91	12	0
	7	51	.5	.3					
	8	52	20.0	.4	.29	.77	94	15	0
	9	52	21.0	.5					
	10	52	25.0	.4	.29	.71	93	12	0
	11	53		23.0					
	12 n	53	30.3	22.8	.29	.95	98	12	0
29.ix	11 am	35	18.0	16.2	4.05	6.16	91	2	0
	12 n	34	17.0	.6					
	1 pm	32	16.5	17.6	3.59	.71	101	1	0
	2	30	17.0	.9					
	3	30	16.4	18.5	.11	.57	100	2	0
	4	29	17.0	19.1					
	5	29	.0	.2	.37	7.28	113	5	3
	6	30	16.9	18.1					
	7	31	14.2	.2	.21	6.97	106	3	3
	8	32	13.0	17.9					
	9	32	11.0	18.1	.23	.84	104	8	5
	10	32	10.1	17.4					

Location: **PEEL-HARVEY INLET NO. 1 - MANDURAH**

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
29. ix	11 pm	34	9.1	16.9	3.47	6.36	95	2	5
	12 m	34	.0	17.4					
30. ix	1 am	33	8.0	16.5	.54	.10	90	4	3
	2	33	.8	.2					
	3	35	.5	.1	.69	5.99	88	1	0
	4	37	.5	15.8					
	5	37	.2	.6	.69	.80	84	4	3
	6	39	7.8	.5					
	7	41	.8	.6	.69	.64	82	17	3
	8	41	9.0	.3					
	9	41		.9	.79	.87	86	5	8
	10	38	13.9	16.2					
	11	36	15.1	17.0	.79	.93	89	8	3

Location: LESCHENAULT INLET NO. 3a - ROAD BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
5.iii	9 am	36	25.0	21.3	15.92	5.03	92	13	0
	10	36	.4	22.3					
	11	36	26.8	.7	16.66	.10	97	13	0
	12 n	35	28.3	23.1					
	1 pm	36	30.3	.2	.93	.12	98	13	0
	2	36	29.5	.4					
	3	36	.5	.7	17.30	.24	102	12	12
	4	36	.0	24.0					
	5	37	28.3	23.7	18.77	4.35	86	10	0
	6	37	.0	.6					
	7	37	26.5	24.6	19.38	.80	97	12	0
	8	37	23.5	25.4					
	9	38	22.0	26.1	.72	.95	103	9	0
	10	38	21.0	.1					
	11	38	.2	25.5	18.40	.92	100	7	0
	12 m	38	20.2	24.4					
6.iii	1 am	38	19.2	.4	.77	.70	94	14	0
	2	37	18.5	23.5					
	3	37	17.5	22.8	17.86	.29	83	12	0
	4	37	.0	.6					
	5	37	16.5	.5	.35	.56	87	10	0
	6	37	.0	.5					
	7	36	.5	.1	16.93	.34	82	10	0
	8	36	18.5	21.9					
	9	36	21.8	22.3	.68	.73	89	10	0

Location: LESCHENAULT INLET NO. 1 - BUNBURY

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
1. x	5 pm	36	16.0	16.9	0.55	7.28	105	7	18
	6	36	14.9	.9					
	7	39	13.5	.5	.72	.15	102	5	15
	8	42	12.0	.5					
	9	43	.2	.2	.88	6.71	96	7	15
	10	43	11.5	.2					
	11	43	10.8	15.8	.85	.51	92	1	18
	12 m	42	.2	.8					
2. x	1 am	41	9.0	.5	.77	.30	89	5	15
	2	39	8.5	14.9					
	3	36	7.9	.7	.72	.36	88	1	15
	4	38	.8	.7					
	5	41	8.2	.7	.52	.57	91	2	15
	6	42	11.9	.5					
	7	43	13.0	.4	.55	.36	87	6	21
	8	45	9.8	.4					
	9	47	11.5	.3	.62	.43	88	6	47
	10	47	13.8	.5					
	11	48	15.0	.5	.57	.57	90	4	15
	12 n	45	16.0	.6					
	1 pm	41	18.5	15.0	.62	.84	95	8	47
	2	39	.5	.6					
	3	37	.5	.9	.57	7.28	103	8	30
	4	37	.2	16.1					
	5	38	17.8	.2	.52	.60	108	8	21

Location: HARDY INLET NO. 2 - AUGUSTA

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
2. iii	11 am	37	20.0	19.0	19.70	6.15	113	13	3
	12 n	38	24.5	.4					
	1 pm	41	22.6	.9	.47	.27	117	13	3
	2	43	23.5	20.6					
	3	43	24.5	21.0	.70	.46	123		0
	4	42	.5	.2					
	5	42	19.0	.2	.75	.15	117	7	0
	6	41	18.7	.0					
	7	41	17.5	20.7	.80	.19	117	9	0
	8	42	.7	.5					
	9	42	18.0	.0	.77	5.44	102	11	3
	10	41	.5	19.6					
	11	39	.7	.7	.90	.13	96	9	0
	12 m	35	.6	20.0					
3. iii	1 am	32	.7	19.3	.46	.68	105	11	0
	2	29	.2	18.8					
	3	24	.0	.5	18.64	.54	100	13	0
	4	22	.0	.3					
	5	19	.0	.2	.23	4.93	88	9	3
	6	19	17.8	.0					
	7	21	.0	17.8	17.86	.74	84	12	0
	8	24	19.0	.3					
	9	28	22.0	18.6	.45	5.85	104	19	0
	10	31	.0	19.2					
	11	36	21.8	.7	18.99	.56	103	12	0

Location: NORNALUP INLET NO. 1 - ENTRANCE OF INLET

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
27.ii	11 am	25	25.5	22.6	19.79	5.70	112	9	0
	12 n	25	23.0	23.1					
	1 pm	29	24.0	.1	.80	.21	103	5	3
	2	27	23.5	.5					
	3	24	.3	.0	.84	.35	106	10	3
	4	26	21.5	24.1					
	5	25	19.8	.6	.83	.39	110	17	0
	6	24	.2	23.2					
	7	24	18.0	22.2	.87	.09	99	6	3
	8	24	17.2	21.3					
	9	25	.5	20.9	.83	4.92	94	9	3
	10	25	.2	.7					
	11	25	.5	.6	.80	.74	90	7	3
	12 m	26	16.9	.8					
28.ii	1 am	26	17.0	.6	.72	.92	93	13	3
	2	26	16.8	.7					
	3	25	.5	.3	.82	.58	86	19	3
	4	24	.8	19.4					
	5	24	.5	.7	.82	.60	86	9	3
	6	22	.3	.7					
	7	22	17.5	20.1	.76	.69	88	9	3
	8	21	18.8	.4					
	9	23	19.5	.8	.73	5.10	97	5	3
	10	24	20.6	21.0					
	11	25	.0	.2	.79	4.61	88	9	3
2.xi	12 n	21	16.5	17.9	17.59	6.27	110	9	5
	1 pm	20	15.5	18.0					
	2	19	.8	.3	.47	.14	109	6	9
	3	19	14.0	.3					
	4	19	13.0	17.9	.17	.27	110	1	12
	5	19	11.8	.4					
	6	20	10.8	.1	.10	.58	114	4	9
	7	22	.0	.2					
	8	24	9.5	16.7	.97	.01	104	3	9
	9	25	10.5	.8					
	10	26	.5	.8	19.46	5.73	102	4	12
	11	27	11.0	.7					

Location: NORNALUP INLET NO. 1 - ENTRANCE OF INLET

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
2. xi	12 m	28	11.0	16.7	19.62	6.01	106	1	9
3. xi	1 am	29	10.5	.6					
	2	28	11.0	15.4	17.74	5.79	98	9	5
	3	25	10.2	.4					
	4	24	.5	.3	16.91	.58	94	10	9
	5	21	.8	.3					
	6	20	11.2	.5	.33	.65	95	7	5
	7	18	12.2	.7					
	8	17	16.0	16.1	.04	6.07	102	9	9
	9	15	.6	15.5					
	10	14	19.0	17.3	15.94	.73	115	9	5
	11	13	17.2	.8					
	12 n	13	.0	18.2	16.02	7.25	126	7	0

Location: WILSON'S INLET NO. 3 - MOUTH OF DENMARK RIVER

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
24.11	4 pm	50	21.5	24.9	13.69	4.29	82	10	9
	5	50	19.3	.5					
	6	50	.0	.3	14.18	.72	89	17	0
	7	50	18.5	.1					
	8	50	.2	23.9	.15	.66	88	17	9
	9	50	17.0	.9					
	10	50	16.0	.7	.05	.26	80	17	9
	11	50	14.3	.5					
	12 m	50	12.0	.3	.00	.91	91	17	3
25.11	1 am	50	.0	.1					
	2	50	11.2	22.3	13.64	.43	81	15	0
	3	50	10.5	21.5					
	4	50	9.2	.6	12.66	.55	81	15	3
	5	50	.0	22.3					
	6	50	8.2	.4	.45	.55	82	14	6
	7	50	.5	.3					
	8	50	12.7	.6	13.53	.29	78	15	3
	9	50	17.5	.8					
	10	50	20.5	.9	.49	.20	77	17	0
	11	50	22.5	23.1					
	12 n	50	23.7	.5	.36	.30	80	15	6
	1 pm	50	24.5	.6					
	2	50	.0	24.6	.87	.51	86	18	3
	3	50	23.7	.3					
	4	50	22.8	.8	14.05	.58	87	24	6
30.x	8 am	22	12.2	16.9	2.80	5.41	80		15
	9	22	14.0	.8					
	10	22	.0	.7	3.42	.35	79		15
	11	22	13.8	.8					
	12 n	22	14.8	.5	.03	.35	79		15
	1 pm	22	15.5	.6					
	2	22	.0	.5	2.45	.47	80		12
	3	22	.0	.7					
	4	22	.2	.9	.06	.41	79		12
	5	22	14.5	.9					
	6	22	.0	.9	1.75	.53	81		15
	7	22	13.0	.7					

Location: WILSON'S INLET NO. 3 - MOUTH OF DENMARK RIVER

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
30. x	8 pm	22	13.0	16.8	1.57	5.53	81		12
	9	22	12.5	.7					
	10	22	.5	.9	.54	.47	80		12
	11	22	.5	.7					
	12 m	22	.5	.6	.49	.53	80		15
31. x	1 am	22	.5	.6					
	2	22	.8	.7	.59	.30	77		0
	3	22	.5	.7					
	4	22	.8	.6	.68	.35	78		9
	5	22	13.0	.4					
	6	22	.2	.4	.90	.35	78		12
	7	22	.8	.5					
	8	22	14.8	.4	2.24	.35	78		12

Location: KING GEORGE SOUND NO. 5 - LOWER KING RIVER ROAD BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 °/o	PO_4-P	NO_3-N
1948									
22.11	10 am	24	22.5	21.0	20.18	4.02	77	24	6
	11	27	.2	.0					
	12 n	30	23.5	.8	.33	.93	96	21	0
	1 pm	32	24.5	22.2					
	2	31	23.0	.8	.37	5.10	101	15	0
	3	30	22.5	23.2					
	4	31	.5	.5	.40	.02	101	13	15
	5	33	21.5	.4					
	6	37	20.8	22.3	.44	.46	107	11	3
	7	42	.0	.3					
	8	47	19.5	.0	.42	.12	100	14	0
	9	53	20.0	21.9					
	10	55	.0	22.1	.46	4.84	95	18	3
	11	54	19.6	21.8					
	12 m	50	.5	.5	.42	.75	92	16	3
23.11	1 am	47	.6	.2					
	2	39	.5	.1	.38	.55	88	14	3
	3	35	.5	20.8					
	4	26	.5	.7	.51	.20	80	15	6
	5	22	.5	.8					
	6	17	.0	.8	.47	3.99	76	14	3
	7	16	.7	.8					
	8	19	21.4	21.0	.41	.30	63	13	9
	10	28	23.0	.5	.42	.71	72	12	3
28.x	9 am	30		16.5	19.12	5.93	104	1	15
	10	29	13.5	.6					
	11	25	14.0	17.2	18.92	.83	103	0	15
	12 n	21	13.5	.5					
	1 pm	16	15.0	.7	.43	6.27	111	0	9
	2	12	.0	18.1					
	3	8	14.5	.4	15.79	5.88	103	1	18
	4	5	.8	.4					
	5	7	13.8	.4	14.70	.78	100	3	15
	6	9	.2	.2					
	7	13	12.0	17.9	16.71	6.14	107	1	18
	8	18	.0	.5					
	10	24	11.0	.0	18.60	.14	108	0	15

Location: KING GEORGE SOUND NO. 5 - LOWER KING RIVER ROAD BRIDGE

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O_2	O_2 %	PO_4-P	NO_3-N
1948									
28. x	11 pm	24	10.8	16.8	18.67	5.78	101	0	18
	12 m	21	.9	.7					
29. x	1 am	19	11.0	.7	.53	6.01	105	0	15
	2	16	.0	.2					
	3	13	10.2	15.8	17.02	5.52	94	1	18
	4	13	.0	.5					
	5	16	9.5	.6	16.26	.31	88	2	18
	6	19	8.8	16.2					
	7	22	11.0	.4	17.27	.73	98	1	18
	8	27	12.2	.7					
	9	30	13.0	17.0	18.87	6.01	106	0	15

Section D

Analysis of Bottom Deposits in South-western Australia

Swan River, 1946-50, Peel-Harvey Inlet, Leschenault Inlet, Hardy Inlet, Nornalup Inlet, Wilson's Inlet, King George Sound, 1948-50

Location of Stations

The position of stations mentioned in this section can be ascertained from Table 3, Section B.

Location: SWAN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
20. viii	1	0	0	630	53.2	6	2.1	1
	2	0	0	730	20.3	29	3.5	3
	3	1.0	42	585	16.3	19	2.7	3
	4	0	26	610	18.7	28	4.9	11
	5	1.0	67	890	23.4	35	4.5	1
	5a	2.0	90	610	20.0	40	4.1	25
	6	0	59	475	7.3	25	2.6	19
	7	5.0	61	490	26.7	33	2.9	92
	8	0	52	445	26.8	35	3.5	40
	9	0	215	790	54.1	47	3.4	7
	10	0	7	280	23.1	14	1.0	4
	11	0	55	350	12.8	25	2.5	8
	12	0	0	360	14.5	28	2.5	57
	13	0	0	150	17.3	4	0.5	28
1950								
10-12.i	2	6.0	0	635	11.0	43	5.9	10
	3	2.0	0	710	14.0	33	4.3	2
	4	39.0	0	525	11.0	28	7.6	57
	5	0.2	25	350	10.0	20	3.8	2
	5a	0.3	86	580	33.0	33	10.6	4
	6	3.0	87	295	33.0	26	3.5	20
	7	0	130	405	45.0	13	4.8	85
	8	0	112	205	38.0	26	3.8	11
	9	0	225	700	50.0	28	4.5	1
	9a	0	275	740	31.0	16	7.4	9
	10	0	118	290	29.0	29		62
	12	0	158	385	36.0	11	2.8	12
	13	0	28	85	17.0	6	4.8	31

Location: SWAN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
13-14. iii	2	8.0	30	1500	20.0	147	14.8	5
	3	4.0	10	950	11.0	53	7.8	2
	4	1.0	30	610	7.0	40	8.0	1
	5	2.0	30	660	18.0	53	15.0	2
	5a	1.0	35	670	21.0	51	7.0	2
	6	9.0	40	560	34.0	41	4.5	12
	7	13.0	100	545	47.0	38	4.2	64
	8	10.0	245	1180	50.0	81		19
	9	9.0	120	485	44.0	55	4.3	27
	9a	0.2	143	770	15.0	48		2
	10	3.0	140	650	30.0	36	5.6	6
	12	3.0	165	870	53.0	45	5.9	23
	13	0	50	280	43.0	32	9.0	40
17-18. iv	3	3.0	19	640	10.0	8	3.1	4
	4	0.5	17	340	18.0	12	2.6	2
	5	1.0	5	325	13.0	24	3.4	4
	5a	1.0	97	650	35.0	31	3.9	7
	6	1.0	20	395	22.0	14	1.8	4
	7	9.0	114	475	38.0	21	2.0	55
	8	1.0	88	430	38.0	30	2.5	9
	9	5.0	96	225	44.0	31	2.4	12
	9a	0.1	105	460	25.0	22	2.3	1
	10	0.1	110	275	57.0	44	1.2	6
	12	0.4	216	315	66.0	35	1.2	11
	13	2.0	68	365	90.0	14	0.6	31
12-13. vii	2	3.0	210	1750	10.0	47	9.0	2
	3	6.0	50	1525	16.0	42	7.1	3
	4	3.0	89	650	16.0	35	6.0	7
	5	18.0	30	1900	33.0	25	9.5	4
	5a	3.0	89	640	40.0	45	6.4	7
	6	4.0	43	320	20.0	12	2.4	20
	7	13.0	0	560	32.0	20	2.1	81
	8	3.0	29	575	38.0	22	2.6	28
	9	12.0	8	585	40.0	26	3.0	26
	9a	6.0	128	830	29.0		2.9	10
	10	9.0	56	270	24.0	23	2.3	54
	12	0	24	420	28.0		0.8	18
	13	4.0	4	180	45.0	16	1.4	63

Location: SWAN RIVER

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
8-9. viii	2	2.0	0	830	10.0	75	5.4	5
	3	10.0	173	1950	7.0	46	6.0	5
	4	2.0	71	300	7.0	11	1.2	17
	5	1.0	50	600	9.0	40	5.0	5
	5a	1.0	47	750	25.0	58	6.8	7
	6	4.0	70	510	5.0	15	2.7	27
	7	7.0	97	420	7.0	30	2.5	88
	8	6.0	160	560	14.0	32	2.9	62
	9	6.0	96	535	4.0	39	3.0	44
	9a	4.0	105	750	11.0	40	4.8	12
	10	3.0	111	430	23.0	32	2.2	33
	12	12.0	82	500	18.0	30	2.0	35
	13	2.0	80	400	15.0	22	2.1	39
19-20. ix	2	3.0	4	1630	30.0	180	12.2	3
	3	10.0	0	860	9.0	60	4.3	17
	4	1.0	30	570	9.0	45	4.0	2
	5	0.3	79	750	26.0	68	7.6	1
	5a	2.0	80	900	23.0	103	9.0	8
	6	2.0	32	460	19.0	46	3.3	11
	7	7.0	130	600	29.0	44	3.6	67
	8	5.0	193	660	34.0	58	5.0	28
	9	12.0	80	520	58.0	52	4.7	47
	9a	1.0	123	750	37.0	59	4.5	3
	10	0.4	146	465	20.0	40	2.2	11
	12	0.4	105	390	60.0	59	2.9	7
	13	0.3	123	405	19.0	31	2.2	16

Location: PEEL-HARVEY INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
24.ix	1	0	0	320	22.6	28	2.5	25
	1a	0	0	200	11.3	19	0.8	2
	2	0	9	90	12.9	8	0.6	54
	3	0	55	310	27.0	20	2.3	10
	7	0	80	445	45.8	32	3.9	9
	8	0	62	480	47.0			32
	9	0	0	115	18.0	5	0.5	44
1948								
8.iii	1	1.0	66	600	21.6	32	3.7	2
	1a	3.0	23	455	27.7	34	2.3	15
	2	0	18	160	39.3	37	3.1	62
	3	0	25	175	55.0	24	2.0	25
	4	0	33	135	24.0	25	1.5	27
	5	0	101	305	77.0	28	2.5	37
	7	0	38	180	59.0	40	2.8	32
	8	0.2	47	325	32.4	20	1.8	5
	9	1.0	96	420	24.0	13	0.6	4
1950								
25.1	1	1.0	9	430		32	3.3	7
	1a	0.2	22	390		19	3.0	3
	2	1.0	0	120		25	1.9	36
	3	0	10	35	7.0	3	0.6	2
	3a	0	108	340	25.0	0	4.3	2
	4	0	54	145	30.0	13	2.6	6
	5	0	132	200	40.0	7	2.8	62
	7	0	64	295		34	4.7	9
	7a	1.0	25	210		0	4.7	1
	8	0	68	180	65.0	0	1.1	14
	9	0	310	360	54.0	2	3.4	59

Location: PEEL-HARVEY INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	°/o Silt
1950								
21. ii	1	1.0	11	505	14.0	33	3.4	4
	1a	2.0	0	350	14.0	35	2.6	6
	2	0	7	55	30.0	18	1.5	60
	3	0.1	15	120	19.0	33	1.8	2
	3a	0	14	175	45.0	24	3.4	15
	4	0.2	22	95	43.0	11	2.5	12
	5	0	140	225	79.0	19	3.0	17
	7	1.0	23	160	69.0	36	3.4	31
	7a	0	26	175	28.0	34	3.6	4
	8	1.0	54	200	76.0	0	0.9	17
	9	0.2	98	360	36.0	10	2.6	4
3. iv	1	0.4	5	260	17.0	40	5.3	7
	1a	1.0	0	220	13.0	20	6.9	2
	2	0	16	55	19.0	17	2.4	44
	3	0.3	6	65	28.0	4	4.3	4
	3a	0	3	30	3.0	4	1.8	3
	4	0	16	85	15.0	17	9.4	2
	5	0	130	305	43.0	27	4.1	20
	7	0	30	120	33.0	36	6.5	4
	7a	0	26	140	23.0	19	8.8	2
	8	0	60	220	30.0	27	4.4	12
14-15. vi	1	3.0	20	765	28.0	30	4.6	8
	1a	5.0	90	600	30.0	39	6.3	13
	2	2.0	104	350	40.0	33	4.8	12
	3	0.4	18	190	20.0	31	4.7	2
	3a		120	465	52.0	34	4.0	
	4	1.0	15	170	15.0	22	4.0	5
	5	7.0	70	290	50.0	28	2.4	70
	7	2.0	110	280	40.0	32	4.4	22
	7a	0.5	30	180	27.0	34	5.1	3
	8	12.0	145	460	50.0	25	2.7	60
	9	1.0	355	875	75.0	23	4.2	7

Location: PEEL-HARVEY INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
17-18. vii	1	5.0	5	440	30.0	46	3.1	24
	1a	3.0	34	560	25.0	48	5.2	7
	2	1.0	21	310	37.0	53	3.7	6
	3	5.0	2	105	29.0	28	1.9	65
	3a	0	55	685	145.0	135	11.0	60
	5	5.0	0	545	70.0	38	2.9	45
	7	2.0	58	275	48.0	41	4.4	15
	8	5.0	0	650	78.0	37	3.2	32
	9	0.1	41	580	63.0	36	3.0	6
16-17. viii	1	0.5	6	350	13.0	41	3.5	14
	1a	1.0	46	390	17.0	33	4.0	8
	2	0.2	22	255	19.0	28	3.5	7
	3	1.0	32	175	20.0	21	3.0	30
	3a	2.0	29	280	19.0	49	5.5	26
	4	0.5	28	140	22.0	17	2.4	25
	5	3.0	71	290	36.0	36	2.5	65
	7	0.2	107	340	25.0	45	6.2	8
	7a	0	47	280	10.0	42	6.1	0.5
	8	7.0	123	1440	35.0	5	0.4	30
	9	1.0	139	470	33.0	34	2.4	12
22-23. xi	1	2.0	19	405	24.0	31	2.1	15
	1a	0	29	335	13.0	23	1.4	0.5
	2	6.0	25	180	38.0	34	1.7	35
	3	0.4	66	220	20.0	31	2.1	2
	3a	9.0	43	240	50.0	52	2.9	72
	4	0.3	80	250	36.0	34	4.3	3
	5	13.0	80	355	56.0	44	2.5	65
	7	7.0	24	205	47.0	43	2.5	50
	7a	0.3	35	185	42.0	36	3.3	3
	8	15.0	114	1150	85.0	25	1.8	33

Location: LESCHENAULT INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
24-25.ix	1	0	25	275	6.3	11	1.4	1
	2	0	9	245	16.2	40	1.6	17
	2a	0	0	160	15.1	10	0.6	33
	3	0	61	540	43.4	33	3.5	14
	3a	0	58	315	37.1	21	1.9	4
	4	0	50	360	35.2	32	2.6	12
	7	0	0	240	25.2	30	1.9	38
	8a	0	0	0	62.5			9
	9	0	0	400	33.9	28	2.3	13
	10	0	7	125	45.4	10	1.1	9
1947								
20.xii	1	0.4	6	180	0	20		2
	2	3.0	64	385	60.0	66	6.6	1
	3	0	12	125	13.5	5	0.8	1
	4	0.4	80	900	40.0	68	3.8	1
	7	1.0	27	225	41.0	58	8.2	7
	10	0.2	108	420	33.6	27		1
1948								
5.iii	1	0.5	27	715	64.3	59	4.0	1
	2	0	4	275	39.0	35	1.6	34
	2a	0	57	190	24.6	12	0.5	2
	3	0	78	290	23.4	43	2.0	4
	3a	1.0	31	205	42.0	40	1.8	18
	4	0.4	65	260	56.2	37	2.3	14
	6	0.5	36	200	51.5	47	2.5	25
	7	1.0	67	290	54.6	29	1.4	40
	8a	0.3	167	850	19.5	30	2.3	1
	9	1.0	88	400	62.5	26	2.4	5
	10	0	74	550	53.0	37	2.8	8

Location: LESCHENAULT INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1950								
21. iv	2a	0	210	430	36.0	21	1.3	5
	3	0.2	50	325	47.0	32	2.3	6
	3a	0	88	260	57.0	51	3.2	17
	4	0	16	150	12.0	28	0.8	1
	6	1.5	2	225	14.0	22	1.8	9
	7	0	45	125	24.0	32	0.8	7
	9	0.8	14	85	68.0	0	0	16
	10	3.0	10	85	45.0	0	0.4	40
8. xi	1	0.4	10	210	0	46	0	3
	2a	0	231	1000	23.0	35	2.4	0
	3	0.2	137	690	46.0	73	0	6
	3a	0.4	33	490	55.0	45	2.6	14
	4	0.2	36	360	190.0	165	5.1	4
	6	0.1	235	2900	26.0	17	3.3	0
	7	0	28	660	59.0	45	6.9	28
	8a	2	0	465	40.0	39	1.9	34
	9	0.2	2	375	50.0	10	5.8	4
	10	0	0	985	56.0	50	3.5	4

Location: HARDY INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
26-27. ix	1	1.0	0	470	14.0	14	1.1	1
	2	0.4	135	950	33.3	42	3.8	11
	3	0	72	685	26.5	97	7.1	5
	4	0	33	470	57.8	65	4.0	24
	6	0	0	255	22.6	29	1.4	43
	7	0	0	360	26.5	18	2.1	16
	8	0	54	330	21.4	35	3.1	42
1948								
2-4. iii	1	0.2	11	160	3.5	28	0.7	2
	2	2.0	2	360	18.7	45	3.2	17
	3	0	14	330	56.2	63	3.2	9
	5	2.0	10	165	66.9	49	1.2	30
	6	3.0	110	420	98.6	66	3.7	51
	7	0	35	435	30.0	27	2.0	1
	8	0.4	48	370	19.8	36	2.1	6
	9	1.0	21	175	11.5	32	1.5	28
1950								
23-24. iv	1	0	45	320	0	41	0	2
	2	1.0	7	495	50.0	76	5.0	11
	3	1.0	21	200	75.0	63	3.2	10
	5	0.8	57	435	100.0	59	1.3	10
	6	0.2	45	210	80.0	88	3.0	4
	7	0.2	93	300	22.0	33	1.9	2
	8	0	230	685	55.0	80	1.0	3
	9	0.3	36	180	40.0	19	1.3	15
6. xi	1	2.0	0	645	16.0	57	2.7	10
	2	6.0	38	550	53.0	58	4.6	38
	3	8.0	45	375	33.0	42	2.9	40
	6	1.0	5	840	80.0	65	3.4	17
	7	0.4	8	930	75.0	47	3.2	4
	8	1.0	123	1440	80.0	88	8.2	20
	9	1.0	28	415	50.0	37	3.6	34

Location: NORNALUP INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
28. ix	1	0	0	115	16.7	10	0.6	28
	2	0	150	650	22.5	44	3.5	2
	3	0	38	710	29.0	82	4.6	46
	4	0	6		0.6	17	1.2	8
	5	0	74	660	0.7	50	3.8	11
	6	0	0	505	40.6	102	4.4	10
	7	0	0	195	9.9	27	1.6	20
	8	0	0	255	27.3	11	1.2	31
1948								
24. ii	2	0.5	9	440	14.4	82	4.1	13
	3	6.0	8	615	67.2	89	5.5	46
	4	3.0	15	420	28.2	61	4.3	48
	5	1.0	34	475	31.5	75	3.7	55
	6	1.0	117	665	60.0	95	5.7	5
	7	0	16	280	11.2	34	1.9	1
	8	1.0	31	205	35.3	30	1.2	69
1950								
5-6. iii	2	11.0	127	610	43.0	49	4.7	49
	3	14.0	95	700	11.0	50	1.8	28
	4	3.0	63	520	10.0	37	0	2
	5	0.6	148	770	30.0	76	3.7	2
	6	0.7	7	150	10.0	40	0	1
	7	13.0	50		6.5	10	1.5	38
	8	0	45	165	37.0	24	0.9	20
5-6. xi	1	0.1	101	540	33.0	115	2.1	1
	2	10.0	26	690	46.0	80	5.4	40
	3	11.0	8	850	26.0	86	7.2	35
	4	23.0	19	960	42.0	110	7.3	40
	5	0.4	24	545	20.0	60	4.2	1
	6	0	10	275	24.0	19	1.5	6
	7	2.0	110	465	15.0	72	4.5	32
	8	0	15	240	8.0	22	2.7	54

Location: WILSON'S INLET

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
29.ix	1	8.0	45	945	7.0	39	3.4	18
	3	0	110	635	23.8	59	5.3	10
	4	0	122	675	41.2	64	5.4	63
	5	0	46	165	23.7	30	1.8	44
	6	0.4	114	590	29.4	44	4.4	10
	8	0	33	370	38.0	18	1.4	32
1948								
24.ii	1	2.0	35	525	18.2	52	5.2	10
	2	2.0	20	475	33.3	67	4.5	29
	3	0.4	135	545	47.6	83	4.6	8
	4	1.0	31	575	28.0	68	6.0	6
	5	0.5	94	375	22.5	26	3.1	3
	6	0	19	195	43.4	29	2.3	1
	7	6.0	24	265	39.6	67	2.9	69
	8	2.0	75	495	68.6	78	3.4	15
1950								
28.iv	1	1.0	18	680	14.0	48	5.0	3
	2	7.5	55	630	42.0	71	5.0	75
	3	1.0	60	500	62.0	71	3.8	3
	4	3.0	40	405	37.0	61	3.8	45
	5	0.2	18	160	16.0	53	2.5	9
	6	0	18	60	28.0	0	0	21
	7	0.2	59	330	45.0	66	4.2	5
	8	4.0	324	630	55.0	72	3.8	15
3-4.xi	1	5.0	0	880	17.0	62	6.7	8
	2	31.0	34	665	43.0	66	6.0	82
	3	3.0	62	765	40.0	70	6.2	6
	4	24.0	37	585	38.0	65	5.7	67
	5	0.5	72	600	77.0	75	5.2	2
	6	3.0	55	485	55.0	70	5.8	28
	7	0	16	230	54.0	48	2.8	23
	8	4.0	88	570	57.0	78	4.2	14

Location: KING GEORGE SOUND

Date	Station	Int. P.	Ads. P.	Total P.	Total Fe	Org. C.	Total N.	% Silt
1946								
30.ix	3	4.0	100	870	10.4	43	2.9	4
	4	9.0	11	420	7.8	43	2.7	33
	5	8.0	36	545	33.4	46	3.6	20
	6	3.0	43	390	25.4	39	2.1	32
	7	0	20	210	28.8	42	1.6	23
	8	0	0	85	55.9	80	3.8	39
1948								
23.ii	3	1.0	8	325	57.5	75	2.8	4
	4	85.0	6	970	13.2	59	5.8	72
	5	1.0	39	285	13.0	35	2.8	37
	6	1.0	22	190	29.4	17	1.4	26
	7	3.0	50	370	33.6	37	2.2	77
	8	0.2	136	560	47.5	77	3.7	2
6.v	4	4.0	15	1060	14.0	10	0.6	6
	4a	2.0	5	615	16.0	42	4.2	10
	5	2.0	29	440	36.8	44	2.8	13
	6	1.0	34	575	32.0	38	3.4	11
	7	9.0	50	600	47.0	80	3.7	74
	8	0.4	23	385	32.7	52	2.1	11
1950								
26-27.iv	3	3.0	0	355	18.0	52	3.7	11
	4	0.7	35	220	0	0	0	4
	5	8.0	24	325	132.0	16	1.5	28
	6	3.0	28	460	55.0	65	6.0	10
	7	2.0	71	350	65.0	54	2.5	5
	8	0.6	59	295	80.0	52	1.6	5
2.xi	3	1.0	0	350	13.0	52	2.5	4
	4	0.3	22	130	1.5	36	0.8	13
	5	0.4	37	435	65.0	62	4.5	5
	6	1.0	25	345	84.0	71	5.3	10
	7	2.0		310	193.0	110	5.9	27
	8	1.0		285	98.0	76	4.2	12