

# **OCEANOGRAPHICAL STATION LIST**

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

## **Volume 10**

**Records of Twenty-four Hourly Hydrological  
Observations at Shell Point, Georges River,  
New South Wales, 1942-50**

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**COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION, AUSTRALIA  
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## OCEANOGRAPHICAL STATION LIST

RECORDS OF TWENTY-FOUR HOURLY HYDROLOGICAL OBSERVATIONS AT SHELL POINT, GEORGES RIVER, NEW SOUTH WALES, 1942-50.

### I. INTRODUCTION

In the study of the hydrological environment of the Sydney rock oyster, *Saxostrea australis*, it was necessary to determine not only the seasonal and long-term cycles of intertidal conditions, but also the short-period diurnal cycle developed by tidal movement. Sampling at a point just below the L.W.O.S. tide level every hour over a 24-hour period at about fortnightly intervals was decided as the best sampling programme to meet these needs. In this volume the hydrological data covering the period 1942-50 are given.

### II. METHODS

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

### III. UNITS

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

### IV. LOCATION OF STATIONS

The Shell Point station was situated at the end of a jetty at L.W.O.S. tide level, and is representative of intertidal conditions within the tidal zone of the George's River-Botany Bay estuarine system.

### V. PERSONNEL

The laboratory analyses of the data have been the responsibility of Mr. D. J. Rochford and the hydrology staff at Cronulla. The 24-hour collections have been the responsibility of Mr. C. Brown, assisted by other members of the C.S.I.R.O. Division of Fisheries.

### VI. REFERENCES

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

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941 24. vi	1 pm	18		14.3	19.71			0	0
	2	15		13.5	.71			5	
	3	18		.7				4	
	4	35		.5	.63			1	
	5	46		.4	.72			0	
	6	62		.1	.65			1	
	7	70		12.8	.67			0	
	8	77		.5	.67			1	
	9	81		.7	.64			0	
	10	75		13.0	.71			5	0
	11	65		12.9	.66			3	0
	12 m	52		.9	.70			0	0
25. vi	1 am	40		.5	.68			1	0
	2	30		.5	.71			0	0
	3	23		.5	.72			0	0
	4	12		.0	.68			3	0
	5	18		.0	.72			0	0
	6	40		.1	.68			1	0
	7	49		.1	.71			0	0
	8	58		.4	.66			1	0
	9	63		.5	.72			0	0
	10	62		.5	.71			0	0
	11	53		.2	.73			0	0
	12 n	46		.4	.67			0	0
1 pm	37		.5	.70			0	0	
22. vii	1 pm	24	10.0	12.9	19.57				2
	2	28	11.6	13.0	.61				0
	3	38	.0	.0	.50	5.90	100		0
	4	48	.6	.2	.57	.77	96		0
	5	61	.6	.2	.55	.74	96		0
	6	70	.0	.0	.60	.66	94		0
	7	76	9.5	15.9	.51	.78	96		0
	8	75	.5	12.8	.56	.52	92		0
	9	69	.0	.8	.52	.50	91		0
	10	59	10.5	.8	.52	.30	88		0
	11	46	9.5	.5	.56	3.51	58		0
	12 m	36	.5	.5	.56	.04	58		0

Location: SHELL POINT

Date	Time	Tide (gn.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941									
23. vii	1 am	27	9.0	12.3	19.58	3.66	60		5
	2	24	.0	.0	.57	.75	61		5
	3	26	8.3	11.9	.55	5.50	89		10
	4	34	10.0	12.1	.61	.42	87		0
	5	42	.5	.2	.58	.69	92		0
	6	53	.0	.3	.61	.08	83		5
	7	61	.5	.7	.68	.40	89		5
	8	63	11.0	.8	.68	.21	86		5
	9	60		.8	.70	.37	89		0
	10	53		.7	.65	.60	93		0
	11	43		.7	.67	.51	92		0
	12 n	36		.7	.67	.08	84		0
	1 pm	32		.8	.67	.05	86		0
5. viii	1 pm	22		14.5	19.83	5.54	95	0	8
	2	28	16.8	.7					
	3	37	15.5	.8	.80	.55	95	2	10
	4	52	14.5	.7					
	5	63	12.8	.4	.81	.48	93	1	5
	6	75	11.1	13.7					
	7	80	10.0	14.0	.78	.75	98	3	8
	8	78	9.5	13.7					
	9	69	8.4	.5	.85	.65	95	3	10
	10	57	9.0	.4					
	11	42	.3	.0	.84	.23	87	0	5
6. viii	12 m	30	.3	12.4					
	1 am	21	.3	11.4	.99	.30	85	0	10
	2	17	.0	.8					
	3	20	7.8	12.9	.86	.40	90	1	2
	4	29	7.8	.9					
	5	41	.3	13.2	.82	.25	88	2	16
	6	53	8.3	12.5					
	7	61	7.8	.5	.85	.45	90	3	10
	8	63	8.4	.5					
	9	58	9.5	.4	.81	.34	88	1	16
	10	47	10.5	.4					
	11	37	12.8	.5	.83	.45	90	3	16
12 n	27	.2	13.1						
1 pm	19	.8	.2	.80	.10	85	3	12	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941									
19. viii	1 pm	29	15.0	12.5	18.95	5.85	95	5	32
	2	40	.0	.5					
	3	45	18.5	.5	19.14	.42	89	3	23
	4	58	14.5	.6					
	5	65		.5	18.86	6.01	98	6	23
	6	62	19.0	.6					
	7	66	11.8	.8	.80	5.77	95	5	18
	8	59	.1	.7					
	9	49	10.0	.7	19.22	6.13	101	4	20
	10	40	.0	.4					
	11	30	9.5	.3	.07	5.57	91	4	5
	12 m	22	.5	.3					
20. viii	1 am	22	8.4	11.6	18.80	.66	91	4	10
	2	25	7.8	.8					
	3	33	8.4	12.0	.50	.04	81	4	66
	4	40	7.8	.0					
	5	48	.8	.4	.95	.49	89	6	38
	6	54	6.7	.2					
	7	55	.7	.0	.96	.35	86	6	15
	8	51	8.4	.0					
	9	45	10.5	.1	19.02	.46	89	5	26
	10	36	12.8	.3					
	11	27	15.0	13.0	.05	.20	85	5	57
	12 n	23	16.1	.7					
1 pm	24	.8	.9	18.90	4.95	83	5	12	
2. ix	1 pm	27	23.0	16.7	19.42	5.60	99	4	
	2	36	20.0	.5	.40	.80	102	2	
	3	46	21.1	.3	.38	.76	101	2	
	4	57	20.6	.3	.39	.50	96	2	
	5	66	19.6	.1	.41	.55	97	4	
	6	70	18.5	15.7	.36	.66	98	2	
	7	66	16.8	16.5	.43	.62	99	2	
	8	58	.8	17.0	.43	.53	98	2	
	9	48	.1	.3	.48	.40	97	2	
	10	36	.1	.0	.47	.46	97	2	
	11	25	.1	16.3	.40	.18	91	2	
	12 m	17	15.0	.1		.38		2	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941									
3. ix	1 am	14	14.0	16.0	19.42	4.93	86	2	
	2	20	13.3	.0	.48	5.09	89	2	
	3	29	15.0	15.9	.40	.49	96	2	
	4	36	.0	.8	.44	.09	89	4	
	5	47	14.5	.8	.50	.04	88	4	
	6	54	13.3	.7	.40	.23	91	4	
	7	56	.3	.5	.48	.21	90	2	
	8	51	14.0	14.7	.44	.20	89	2	
	9	43	.0	15.1	.44	.30	91	2	
	11	27	15.0	.1	.50	.35	92	4	
	12 n	19	.0	.9	.48	.22	96	2	
	1 pm	18	16.0	16.4	.51	.60	98	2	
16. ix	1 pm	57		15.7	19.48			2	2
	2	66	11.0	.6	.35			0	
	3	75	.7	14.7	18.96			0	5
	4	78	14.0	15.7	19.30			0	2
	5	79	12.8	.7	.41			0	
	6	76	13.3	.6	.34			1	
	7	66	.3	.4	.26			0	
	8	55	14.4	.3	.28			2	2
	9	43	13.3	.3	.25			2	
	10	36	12.8	.3	.27			2	5
	11	29	11.7	.1	.20			2	2
	12 m	33	12.2	.0	.22			4	
17. ix	1 am	39	13.3	.0	.26			0	2
	2	45	12.8	.0	.32			2	
	3	54	.8	14.8	.30			0	
	4	63	.8	.8	.30			2	2
	5	68	.8	15.0	.25			2	
	6	68	13.3	14.8	.36			4	2
	7	64	12.8	.1	.25			2	2
	8	56	13.3	.9	.36			2	5
	9	48	14.5	.9	.36			1	2
	10	40	13.3	.9	.38			4	
	11	36	15.6	15.0	.37			4	2
	12 n	38	16.7	.5	.32			4	2
	1 pm	43	.2	.6	.36			2	2

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941 30. ix	1 pm	48		18.2	19.45	5.02	91	2	
	2	58	17.3	.2					
	3	67	20.6	.3	.49	.42	99	1	
	4	75	21.1	.2					
	5	78	.1	.2	.46	.42	99	1	
	6	74	19.6						
	7	67	17.3	19.2	.59	.85	108	5	
	8	56	.3	.2					
	9	48	16.8	.0	.57	.50	101	5	
	10	39	.1	18.7					
	11	30	12.8	.3	.57	.02	92	5	
	1. x	12 m	30	.2	17.7				
1 am		33	11.0	.5	.51	.25	94	6	
2		43	10.5	.4					
3		53	.5	.1	.50	4.60	82	5	
4		61	.5	.0					
5		68	.1	.0	.49	5.00	89	4	
6		68	.1	.0					
7		63	9.4	16.7	.44	.02	89	5	
8		54	.4	.5					
9		48	10.0	.5	.44	4.93	87	4	
10		41	11.0	.6					
11		33	.0	.2	.44	.99	88	8	
14. x	12 n	34	.8	.3					
	1 pm	37	9.5	.5	.40	5.04	88	3	
	1 pm	55	16.8	18.4	19.33	5.60	102		
	2	59	.8	19.0					
	3	62	.8	.4	.34	6.05	112		
	4	59	.8	20.0					
	5	55	.8	19.5	.36	5.85	104		
	6	47	.8	.8					
	7	39	.2	.5	.45	.67	101		
	8	32	15.6	.5					
	9	26	.6	.5	.45	.43	97		
	10	26	13.3	.3					
11	29	12.2	.1	.43	.79	103			
12 m	34	.8	18.7						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941									
15. x	1 am	39	12.8	18.5	19.34	5.36	94		
	2	46	.8	.5					
	3	51	.8	.4	.37	.18	94		
	4	51	.8	.3					
	5	50	11.0	.1	.34	.43	99		
	6	46	.8	.0					
	7	40	13.3	17.9	.38	.26	95		
	8	34	15.0	.9					
	9	31	16.8	18.0	.42	.02	91		
	10	29	19.0	.5					
	11	33	22.3	.9	.40	.47	97		
	12 n	39	24.6	19.2					
	1 pm	47	.6	.3	.38	.57	103		
4. xi	1 pm	30	23.0	23.3	20.18	5.22	104	1	0
	2	21	24.0	.5					
	3	21	23.5	.8	.28	4.75	95	1	2
	4	26	.5	.7					
	5	33	22.4	.5	.28	.65	93	1	0
	6	44	21.1	.3	.32	.71	94		
	7	54	.8	22.6					
	8	62	.1	.2	19.99	5.00	98		
	9	63	20.0	.2	20.14	4.65	93	2	0
	10	58	.0	21.3					
	11	48	.0	.0	19.96	.92	94	0	0
	12 m	37	19.6	20.9					
5. xi	1 am	29	.6	.7	.90	.63	88	1	0
	2	23	18.6	21.0					
	3	21	17.3	20.7	.90	.60	87	2	0
	4	27	16.8	.7					
	5	35	18.6	.7	.89	.65	88	2	0
	6	50	20.0	.8					
	7	58	21.1	21.1	.91	.65	89	1	0
	8	68	20.0	.1					
	9	72	24.6	.1	.84	.80	92	1	2
	10	69	25.1	.1					
	11	59	.1	.3	.84	5.20	100	1	0
	12 n	48	.1	.4					
	1 pm	36	28.0	.7	.86	4.88	94	1	2



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941									
18. xi	1 pm	19	24.0	24.5	20.11	5.16	105	4	0
	2	17	.6	.9				4	2
	3	21	.6	25.2	.28	4.67	96	2	8
	4	32	.6	24.8				4	2
	5	45	23.0	25.0	.19	.62	95	2	2
	6	62	.5	23.9				5	0
	7	71	.0	22.9	19.83	5.11	101	4	2
	8	74	.0	.6				4	2
	9	69	.0	23.2	.88	4.89	97	5	0
	10	58	20.6	.0				6	0
	11	45	19.6	22.8	.85	.85	95	5	0
	12 m	33	18.5	.8				4	12
19. xi	1 am	23	19.0	.9	.93	.65	91	5	5
	2	18	20.0	23.0				5	5
	3	24	.0	.0	20.05	3.94	78	4	0
	4	34	.0	22.5				6	0
	5	48	21.1	.0	19.82	4.68	84	5	2
	6	66	22.3	.1				2	0
	7	78	23.0	.3	.83	.56	89	2	5
	8	86	24.6	.3					
	9	85	.6	.4	.83	.73	93	2	5
	10	74	27.0	.3				2	0
	11	60	30.8	.5	.89	.70	92	2	5
	12 n	45	.8	.5				2	0
	1 pm	29	32.0	23.2	.87	5.24	104	2	0
2. xi	1 pm	26	19.0	22.8	20.14	5.59	110	1	2
	2	22	.6	23.1					
	3	26	20.6	.2	.23	.77	115	0	0
	4	34	.6	.5					
	5	42	.6	.5	.19	.08	102	0	0
	6	52	.6	.0					
	7	60	.6	.0	.02	.39	107	0	0
	8	60	.0	22.7					
	9	56	.0	.6	.04	4.87	96	0	2
	10	47	.0	.4					
	11	39	19.0	.1	.08	3.88	76	2	2
	12 m	30	.0	21.7					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1941 3. xii	1 am	26	19.0	21.9	20.07	4.64	90	0	2
	2	24	.0	.6					
	3	30	.0	.6	.09	.87	94	1	2
	4		18.5	.6					
	5		13.4	22.0	.07	.63	90	0	2
	6	63	18.5	.0					
	7	72	19.6	.0	19.94	.40	85	2	2
	8	76	20.6	21.9					
	9	72		22.6	.88	.70	92	0	8
	10	66	24.0	.9					
	11	54	23.5	23.2	.93	.81	95	1	2
	12 n	43	.2	.5					
	1 pm	33	.0	.7	20.14	5.53	111	0	0
16. xii	1 pm	12	19.6	21.8	20.81	5.44	106	0	
	2	17	.0	.5					
	3	27	.6	.5	.52	.15	100	2	
	4	39	.0	.9					
	5	51	.6	.8	.45	.01	97	2	
	6	61	.6	.6					
	7	61	.6	.5	.17	6.08	118	1	
	8	53	18.0	.5					
	9	46	.0	.3	.45	4.95	96	2	
	10	35	16.7	.3					
	11	23	.2	.1	.40	.85	94	4	
12 m	12	15.6	20.4						
17. xii	1 am	12	.0	.3	.46	.30	82	0	
	2	19	.6	.5					
	3	30	.6	.5	.37	.84	92	0	
	4	46	.8	21.0					
	5	60	17.3	.0	.28	.58	88	2	
	6	71	18.0						
	7	77	23.0	20.7	.17	.60	87	1	
	8	73	19.6	21.0					
	9	64	20.6	20.7	.38	.48	85	2	
	10	49	.6	21.4					
	11	36	.6	.5	.33	5.03	97	2	
	12 n	23	.0	22.8					
	1 pm	13	21.1	24.1	.50	6.94	141	2	

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
6.1	1 pm	70	23.5	26.1	20.46	4.91	103		
	2	52	.0	.2					
	3	44	22.3	.1	.66	.81	101		
	4	35	.3	.3					
	5	24	21.1	.0	.68	.85	102		
	6	21	.1	25.5					
	7	22	20.6	.5	.66	.28	89		
	8	28	.6	.3					
	9	39	.6	.1	.59	.62	95		
	10	45	.8	.2					
	11	54	.8	.2	.49	.50	93		
	7.1	12 m	60	.8	24.8				
1 am		61	.8	.8	.37	.40	91		
2		54	.6	.5					
3		47	.0	.2	.54	3.60	73		
4		36	.6	.0					
5		30	18.5	.0	.50	.52	71		
6		27	20.6	.0					
7		28	.6	.2	.49	.82	77		
8		38	21.8	.2					
9		48	.8	.2	.47	4.06	82		
10		60	22.3	.0					
11		70	23.0	23.8	.22	.53	91		
12 n	75	.5	24.3						
1 pm	75	.5	.5	.27	.73	96			
27.1	1 pm	31	20.6	22.1	20.06			5	0
	2	32	.6	.4					
	3	38	.6	.7	.10			5	0
	4	46	.9	.7					
	5	44	21.1	.7	.07			1	0
	6	54	.1	.7					
	7	53	.1	.7	.27			1	0
	8	49	20.9	.6					
	9	43	.9	.5	.16			2	0
	10	37	.6	.5					
	11	30	.6	.3	.26			2	0
	12 m	27	.6	.2					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
28. i	1 am	29	20.0	22.1	20.24			2	0
	2	34	19.6	.4					
	3	40	17.9	.1	.31			0	0
	4	48	18.4	.1					
	5	58	19.0	.0	.26			1	0
	6	63	.0	.0					
	7	65	.6	.0	.27			2	0
	8	60	20.6	21.9					
	9	54	21.1	.9	.30			2	0
	10	47	.6	.7					
	11	38	.6	.9	.40			3	0
	12 n	30	.6	.9					
1 pm	25	22.2	24.2	.61			3	0	
10. ii	2 pm	37	25.0						
	3	44	24.4	24.3	20.10	4.47	90	6	
	4	50	25.0	.2					
	5	52	23.9	.6	.16	.38	89	5	
	6	48	25.6	.6					
	7	45	23.9	.4	.24	.50	91	5	
	8	39	.3	.4					
	9	30	.3	.3	.17	.45	90	3	
	10	24	22.8	.1					
	11	22	.8	.0	.27	.19	84	3	
	12 m	24	.8	23.8					
	11. ii	1 am	30	.8	24.2	.32	.25	86	2
2		42	.8	23.8					
3		51	.2	.7	.18	.62	93	3	
4		59	.2	.3					
5		67	.2	.0	.16	.42	88	5	
6		69	.2	.0					
7		60	.8	.0	.12	.38	87	4	
8		54	.8	22.9					
9		45	.8	23.0	.18	.51	89	5	
10		33	.8	.3					
11		24	23.3	.6	.24	.06	81	3	
12 n		22	.3	.8					
1 pm	22	24.4	24.2	.27	3.94	80	2		

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
24. 11	10 am	37	24.6	23.5	20.20	4.93	98	3	15
	11	36	23.5	.5					
	12 n	38	.5	.9	.17	5.14	103	3	0
	1 pm	43	21.7	24.2					
	2	48	.0	.0	.58	.44	110	1	0
	3	52	.0	25.7					
	4	54	.0	.7	.30	.20	108	2	2
	5	54	.0	.5					
	6	52	.0	.2	.54	.06	104	2	5
	7	46	20.6	24.9					
	8	41	.6	.7	.73	.02	103	3	0
	9	37	.0	.2					
25. 11	10	32	.0	.0	.67	4.23	86	3	0
	11	34	.0	23.9					
	12 m	37	.0	.5	.42	.38	88	3	0
	1 am	42	.0	.5					
	2	50	.0	.5	.36	.33	87	2	0
	3	57	.0	.5					
	4	62	19.5	.3	.18	.78	95	3	0
	5	65	.0	.2					
	6	63	18.0	.2	.17	.61	92	3	0
	7	59	.5	.2					
	8	52	19.5	22.9	.18	.61	91	3	0
	9	45	21.0	.9					
10	39	.5	23.0	.14	.65	92	5	2	
10. 111	1 pm	46	21.1	22.4	20.38			6	2
	2	53	20.6	.9					
	3	58	21.1	23.0	.25			6	0
	4	59	22.2	22.9					
	5	55	21.7	23.0	.28			3	0
	6	49	.7	22.2					
	7	43	.1	.1	.40			5	5
	8	36	.7	.0					
	9	31	.1	21.9	.52			4	0
	10	30	.1	.4					
	11	34	.1	.9	.32			4	0
	12 m	37	.1	22.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
11. iii	1 am	48	21.1	22.0	20.23			5	0
	2	59	18.9	21.9					
	3	67	.3	.7	.09			5	0
	4	71	17.8	.7					
	5	70	.2	.4	.15			4	2
	6	65	.2	.2					
	7	55	16.7	.0	.20			4	0
	8	46	18.3	20.8					
	9	38	20.6	21.1	.17			4	0
	10	30	22.2	.2					
	11	27	25.0	.8	.19			4	2
	12 n	29	27.1	22.1					
	1 pm	34	22.8	.1	.19			6	0
23. iii	1 pm	51	20.0	19.2	19.54			2	5
	2	52	.0	.5					
	3	50	.0	.9	.49			2	2
	4	43	.6	20.8					
	5	36	.0	21.0	.53			3	5
	6	32	.0	20.4					
	7	28	19.4	.7	.51			2	8
	8	28	18.3	.5					
	9	33	17.2	.4	.49			3	2
	10	37	16.7	.4					
	11	49	.7	.4	.51			3	0
	12 m	54	17.2	19.9					
24. iii	1 am	59	.2	.7	.52			4	2
	2	61	.8	.3					
	3	58	.8	.2	.55			4	8
	4	54	.8	.2					
	5	46	.2	.2	.56			3	2
	6	38	.2	.1					
	7	32	16.1	.1	.56			3	5
	8	28	.1	.1					
	9	26	18.9	.2	.55			5	2
	10	29	20.0	.3					
	11	35	21.7	.5	.57			2	2
	12 n	40	.7	.7					
	1 pm	46	.1	20.0	.56			1	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942 6.iv	1 pm	68	19.4	18.5	16.57			0	100
	2	61	20.0	.5					
	3	53	.0	.7	.56			0	96
	4	45	.6	.5					
	5	35	.0	.5	.55			2	100
	6	32	18.9	.5					
	7	32	.3	.4	.37			1	111
	8	38	16.7	.4					
	9	49	13.9	.4	.33			0	108
	10	64	.3	.3					
	11	72	.3	.7	.97			0	108
	12 m	81	12.8	.7					
7.iv	1 am	82	.8	.7	17.92			0	72
	2	78	13.3	.7					
	3	67	14.4	.7	.90			1	68
	4	56	15.0	.5					
	5	45	.6	.3	.55			0	77
	6	34	.0	17.7					
	7	27	.0	.6	.51			0	
	8	27	16.7	.3					
	9	32	17.2	.6	16.95			0	80
	10	39	19.4	.7					
	11	49	20.6	18.1	.55			0	
	12 n	58	19.4	.4					
1 pm	64	20.0	19.2	.88			1	62	
20.iv	1 pm	48	22.8	18.8	18.35			0	5
	2	42	21.1	19.7					
	3	34	20.6	20.3	.44			0	0
	4	29	.6						
	5	27	.0	.6	.50			0	2
	6	28	19.4	.4					
	7	33	18.3	.1	.43			0	2
	8	40	16.7	19.6					
	9	49	.1	.2	.43			0	2
	10	60	14.4	.0					
	11	64	.4	.0	.33			0	0
	12 m	65	13.9	18.7					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
21. iv	1 am	62	13.9	18.7	18.25			2	8
	2	53	.9	.7					
	3	44	.9	.6	.50			0	2
	4	35	.9	.4					
	5	29	.9	.0	.50			0	2
	6	24	.9	17.9					
	7	25	12.2	.7	.44			0	2
	8	31	14.4	.9					
	9	37	15.6	18.0	.40			2	2
	10	45	18.3	.2					
	11	50	20.0	.5	.41			0	0
	12 n	54	21.1	.9					
	1 pm	53	.1	19.0	.42			0	0
4. v	1 pm	56	27.2	20.8	18.78			0	
	2	48	25.6	.5					
	3	36	24.4	21.7	.85			0	
	4	30	.4	.5					
	5	25	23.3	.3	.87			0	
	6	28	21.7	20.8					
	7	38	20.0	21.9	.83			2	
	8	50	19.4	22.0					
	9	62	20.0	.0	.81			0	
	10	74	19.4	20.5					
	11	81	17.8	.5	19.05			0	
	12 m	82	18.9	.5					
5. v	1 am	77	17.8	.5	.14			3	
	2	61	18.3	.4					
	3	48	16.7	19.9	.04			2	
	4	35	15.6	20.2					
	5	27	16.1	.2	.12			3	
	6	17	15.0	19.9					
	7	20	.6	.8	.12			1	
	8	29	17.2	.5					
	9	38	19.4	.8	18.91			0	
	10	51	20.6	20.0					
	11	51	.6	.0				0	
	12 n	65	24.4	.5					
	1 pm	64	26.1	.8	.83			0	



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
18. v	1 pm	44	19.2	15.3	19.25			0	
	2	39	.7	.6				0	
	3	35	20.4	.8	.39			0	
	4	29	.7	.7				0	
	5	33	.0	.5	.31			0	
	6	41	19.3	.5				0	
	7	46	18.3	.5	.28			0	
	8	59	17.2	.5				0	
	9	66	.1	.4	.25			0	
	10	72	.0	.5				0	
	11	73	.2	.5	.31			0	
	12 m	72	.2	.5				0	
19. v	1 am	60	.8	.5	.31			0	
	2	50	.2	.4				0	
	3	39	15.6	.4	.33			0	
	4	31	.6	.4				0	
	5	23	.0	.3	.28			0	
	6	22	.6	.4				0	
	7	33	.6	.4	.34			0	
	8	36	16.7	.4				0	
	9	43	18.1	.6	.44			0	
	10	51	.9	.6				0	
	11	55	19.4	.8	.36			0	
	12 n	55	20.0	.9				0	
1 pm	51	21.1	16.0	.32			0		
8. vi	1 pm	32	17.8	15.0	18.48			0	8
	2	41	.8	.1				0	12
	3	51	.4	.2	.54			0	12
	4	58	.2	14.9				2	12
	5	62	16.7	15.0	.52			0	0
	6	60	15.3	.0				0	0
	7			.1	.47				
	8	48	14.4	.1					
	9	38	15.0	.1	.59				
	10	32	14.4	.2					
	11	28	.0	.1	.59			2	
	12 m	29	13.9	.1					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
9. vi	1 am	32	14.0	15.0	18.50			0	0
	2	39	13.9	14.8					
	4	54	.3	.8					
	5	60	12.2	.7	.47			3	15
	6	55	14.5	.6					
	7	52	.1	.6	.48			0	8
	8	45	11.7	.5					
	9	37	.7	.6	.48			0	0
	10	29	12.2	.6					
	11	25	15.6	.6	.49			2	0
	12 n	24	13.3	.8					
	1 pm	31	14.1	15.0	.54			0	10
22. vi	1 pm	53	15.3	14.2	18.64			2	32
	2	60	.2	.1					
	3	63	.6	.1	.57			0	17
	4	61	.0	.3					
	5	54	.0	.4	.56			0	
	6	47	13.0	.3					
	7	41	.4	.2	.65			0	10
	8	36	.1	.0					
	9	35	.1	.0	.65			0	25
	10	36	.3	.0					
	11	45	.9	13.9	.66			0	
	12 m	50	14.4	.9					
23. vi	1 am	57	13.5	.8	.63			0	17
	2	64	.3	.7					
	3	66	.1	.5	.58			2	17
	4	62	.3	.5					
	5	53	.3	.0	.63			0	
	6	48	12.8	.3					
	7	36	.6	.4	.66			0	22
	8	31	15.6	.4					
	9	26	13.3	.3	.63			0	10
	10	22	14.0	.5					
	11	26	12.8	14.7	.61			0	
	12 n	36	13.9	13.8					
	1 pm	46	14.0	.7	.64			0	10

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942 6.vii	1 pm	51	13.0	11.2	18.85			1	24
	2	60	.6	.4					
	3	64	.5	.8	.84			2	22
	4	64	.2	.9					
	5	59	11.9	.4	.86			1	18
	6	52	10.3	.2					
	7	46	8.1	.1	.86			1	17
	8	41	6.2	.0					
	9	36	5.3	10.9	.85			1	11
	10	35	6.3	.8					
	11				.86			1	12
7.vii	12 m	43	.7	.7					
	1 am	48	7.2	.6	.86			1	25
	2	54	5.0	.5					
	3	60	4.3	.4	.86			1	18
	4	58	.7	.3					
	5	52	.3	9.5	.85			0	12
	6	48	.4	.6					
	7	39	.3	.5	.86			1	22
	8	32	5.0	.6					
	9	28	6.7	.6	.91			1	7
	10	24	10.0	.7					
	11	30	12.3	10.3	.86			1	10
12 n	36	15.6	.7						
1 pm	46	18.3	11.0	.86			3	10	
20.vii	1 pm	60	15.3	13.2	18.93			2	
	2	62	16.7	.4					
	3	57	.9	.5	19.13	6.65	111	0	
	4	50	.4	.7					
	5	42	.7	.5	.16	.97	116	0	
	6	31	11.7	.5					
	7	30	10.6	.5	.21	.59	110	0	
	8	30	12.1	.4					
	9	36	8.4	.0	.14	.24	103	2	
	10	43	7.5	.0					
	11	52	8.1	12.8	.11	.22	102	1	
	12 m	60	7.9	.6					

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
21. vii	1 am	53	8.3	12.5	19.08	5.44	89	3	
	2	66	.6	.3					
	3	61	7.5	.2	.18	.77	94	4	
	4	52	6.7	11.7					
	5	42	.1	.5	.14	4.87	78	3	
	6	36	15.1	.5					
	7	24	.6	.4	.10	5.66	91	3	
	8	25	17.2	.4					
	9	26	11.0	.6	.13	.87	94	3	
	10	35	13.2	12.3					
	11	45	.4	.4	.19	.73	93	0	
	12 n	53	14.0	.7					
	1 pm	61	15.0	.9	.08	6.17	101	1	
17. viii	1 pm	64	20.0	14.2	19.50	5.90	100	0	11
	2	54	21.1	.5					
	3	48	.7	15.0	.47	6.03	104	0	3
	4	38	16.1	.2					
	5	30	15.0	.3	.56	.29	109	0	7
	6	27	16.7	.2					
	7	30	.7	.2	.57	5.70	98	0	7
	8	36	.1	14.9					
	9	47	13.3	.5	.54	.25	89	0	3
	10	57	12.2	.5					
	11	66	.8	.5	.60	.57	95	0	3
	12 m	69	11.7	.2					
18. viii	1 am	66	.6	.2	.53	.94	101	0	7
	2	58	10.5	.0					
	3	49	11.1	.0	.54	.65	96	0	21
	4	39	10.0	13.9					
	5	30	9.8	.8	.62	.36	90	0	3
	6	24	10.2	.5					
	7	24	.6	.2	.58	.32	89	0	7
	8	30	.8	.4					
	9	40	14.1	.7	.56	4.90	82	0	7
	10	48	15.6	14.1					
	11	60	17.8	.3	.56	5.91	100	0	7
	12 n	66	20.0	.4					
	1 pm	68	21.7	.5	.51	.63	109	0	3

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
31. viii	1 pm	66	16.9	15.0	19.69	6.34	109	6	16
	2	63	17.2	.1					
	3	54	.6	.2	.65	5.90	102	3	28
	4	47	18.1	.3					
	5	38	17.8	.2	.64	6.07	105	3	8
	7	32	14.5	14.7	.67	5.80	99	1	8
	8	37	13.9	.5					
	9	44	12.9	.4	.75	.53	94	3	11
	10	53	.2	.3					
	11	61	8.9	.2	.69	.53	94	3	23
	12 m	64	9.4	.2					
1. ix	1 am	63	8.3	.1	.70	.68	96	8	23
	2	57	7.8	13.0					
	3	49	.8	.5	.69	.31	89	3	20
	4	42	.8	12.7					
	5	35	.5	13.5	.76	.33	89	2	11
	6	32	8.7	.4					
	7	32	11.8	.0	.67	.52	92	5	8
	8	36	13.9	.0					
	9	48							
	10	54	16.9	12.9					
	11	60	17.8	14.1	.70	.15	87	3	20
	12 n	64	16.8	.3					
	1 pm	63	13.9	.4	.65	.75	98	5	0
14. ix	1 pm	60	21.2	14.6	19.65	5.72	98	0	6
	2	48	22.2	.9					
	3	39	.9	16.5	.70	.92	105	0	6
	4	29	23.0	.7					
	5	34	22.3	.5	.69	6.11	108	0	6
	6	26	21.0	15.7					
	7	36	19.4	.4	.71	5.65	98	0	3
	8	46	18.3	.3					
	9	60	17.5	.4	.74	.61	97	1	0
	10	71	16.8	.4					
	11	72	.7	.3	.71	.48	95	0	8
	12 m	71	.1	.2					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
15. ix	1 am	63	13.3	14.8	19.79	5.41	93	0	3
	2	51	12.2	15.0					
	3	39	11.7	.0	.70	.20	90	0	3
	4	30	.7	14.8					
	5	26	12.9	.6	.74	.68	97	0	6
	6	27	10.1	.3					
	7	34	11.8	.5	.71	.13	88	2	6
	8	45	15.7	.7					
	9	58	19.2	.8	.68	.22	90	2	6
	10	69	20.9	15.1					
	11	77	19.4	.2	.68	.48	95	0	3
	12 n	78	20.8	.7					
	1 pm	72	21.7	16.5	.74	.71	101	0	3
28. ix	1 pm	63	22.1	17.8	19.89	5.90	108	0	6
	2	54	19.5	18.0					
	3	45	18.4	.5	.99	.61	104	0	3
	4	36	.3	19.0					
	5	27	17.8	18.9	20.03	.38	100	0	0
	6	21	.4	19.0					
	7	22	.2	18.9	.17	.70	106	0	0
	8	31	16.7	.8					
	9	37	.2	.7	.07	.35	99	0	0
	10	46	.0	.6					
	11	56	15.3	.5		4.62			0
	12 m	60	14.4	.4					
29. ix	1 am	57	.8	.3	.01	5.16	95	0	0
	2	51	.3	17.0					
	3	43	13.9	.2	.06	4.28	77	9	0
	4	36	12.8	.9					
	5	27	.2	.7	.03	.53	82	9	3
	6	23	.5	.3					
	7	25	.6	.3	19.87	.18	75	3	0
	8	31	.8	.3					
	9	39	15.0	.4	.94	.92	88	1	0
	10	51	16.9	.5					
	11	61	18.3	.3	.90	5.99	108	0	0
	12 n	66	.7	.4					
	1 pm	66	19.3	.7	.87	.54	100	1	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
20. x	1 pm	42	19.8	20.5	10.90	5.40	92	0	100
	2	49	20.0	19.5					
	3	60	.9	18.9	12.39	.17	87	0	100
	4	67	.7	19.0					
	5	72	.6	.7	14.49	.43	95	0	68
	6	70	.2	.6					
	7	66	18.9	.6	11.11	.66	96	0	68
	8	54	17.9	20.0					
	9	47	.8	.1	12.98	.31	92	0	73
	10	37	.5	.9					
	11	27	.2	.9	11.53	.39	94	0	87
	12 m	21	.2	.6					
21. x	1 am	20	15.7	.5	.31	.54	95	0	87
	2	28	.0	.4					
	3	39	14.5	19.4	12.34	4.99	85	0	75
	4	48	.1	.2					
	5	57	12.8	18.8	13.53	.50	77	0	79
	6	51	11.7	.7					
	7	62	12.3	.3	14.47	.83	83	0	68
	8	56	13.4	19.0					
	9	46	16.7	18.9	13.94	.41	76	0	75
	10	39	17.9	19.3					
	11	30	18.9	20.0	12.88	.78	83	0	75
	12 n	27	19.4	.1					
1 pm	28	.0	.8	.40	5.08	89	0	73	
26. x	1 pm	52	17.8	18.0	15.97	6.91	120	0	42
	2	42	.8	.5					
	3	30	18.3	19.4	.92	7.06	125	0	21
	4	21	.3	20.0					
	5	17	17.5	.6	.80	6.77	122	0	21
	6	21	18.3	.6					
	7	26	17.9	.5	.92	.66	121	1	18
	8	39	16.9	19.3					
	9	48	.7	.0	.86	.80	120	0	25
	10	56	17.2	.4					
	11	59	14.4	18.2	16.39	.38	112	0	39
	12 m	57	.1	.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
27. x	1 am	48	13.4	18.0	16.55	6.70	117	0	39
	2	39	.0	17.9					
	3	30	14.1	.8	.18	5.62	97	0	28
	4	24	.4	.6					
	5	21	.8	.5	.04	.78	100	0	35
	6	27	.3	.4					
	7	33	.4	.5	.05	6.10	105	0	49
	8	45	16.9	.7					
	9	55	17.0	.8	.16	.08	105	0	35
	10	65	18.0	.9					
	11	69	17.8	18.0	17.04	.28	100	0	25
	12 n	66	.8	.0					
	1 pm	60	.8	.8	.20	.50	116	0	11
24. xi	7 am	64	17.1	20.0	18.35	4.60	85	0	3
	8	74	16.9	.1					
	9	81	17.8	19.8	.68	.78	89	0	8
	10	82	18.3	.5					
	11	75	.9	.7	.90	3.82	71	0	3
	12 n	65	.9	.6					
	1 pm	51	19.0	.9	.84	4.90	91	0	0
	2	59	18.0	.8					
	3	30	17.9	20.0	.66	5.27	98	0	6
	4	25	18.6	.1					
	5	30	19.1	19.2	.71	.65	103	0	3
	6	36	18.1	20.1					
	7	49	.3	.2	.54	.02	92	1	0
	8	61	.5	.2					
	9	67	.2	.1	.44	.17	96	1	0
	10	69	17.5	.0					
	11	66	.3	19.7	.75	4.95	91	0	3
	12 m	58	16.7	.6					
25. xi	1 am	48	.7	.5	.74	.73	87	0	0
	2	42	.7	.4					
	3	35	.7	.0	.68	.60	84	0	0
	4	36	15.7	.0					
	5	42	14.3	18.9	.74	.83	88	0	3
	6	48	.6	.8					
	7	63	16.1	19.0	.52	.90	89	0	8



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
7. xii	7 am	72	18.9	21.0	18.83	4.68	85	0	8
	8	78	19.3	20.9					
	9	78	.7	21.1	19.23	.82	91	2	3
	10	69	20.0	.4					
	11	57	.6	.4	.33	.73	90	3	3
	12 n	42	21.2	.8					
	1 pm	30	.2	22.0	.21	5.05	97	2	1
	2	18	.7	23.0					
	3	12	.7	24.2	.14	.77	115	0	12
	4	16	.7	.3					
	5	26	22.2	.0	.07	4.82	96	0	1
6	37	.2	23.0						
7	51	.2	.0	18.98	5.09	99	0	0	
8	61	.0	22.7						
9	77	21.4	.4	.97	.18	100	0	3	
10	60	.1	.6						
11	49	.1	.5	19.01	4.51	88	0	5	
12 m	38	.1	.5						
8. xii	1 am	26	20.6	.5	.11	.17	81	0	1
	2	12	.6	.4					
	3	15	.6	.1	.12	3.42	66	0	5
	4	21	.6	.1					
	5	33	18.3	21.5	18.92	4.62	88	0	3
	6	45	.0	.5					
	7	60	19.3	.5	.81	.55	87	0	8
21. xii	7 am	61	19.0	22.5	19.19	4.32	84	0	13
	8	68	20.6	.4					
	9	67	22.2	.2	.30	.40	85	0	23
	10	60	21.7	.5					
	11	51	.7	23.0	.32	.07	80	0	8
	12 n	39	.7	.8					
	1 pm	27	22.2	24.7	.30	5.63	114	0	8
	2	21	23.0	25.4					
	3	15	.3	26.1	.29	6.09	126	0	1
	4	18	.5	.7					
	5	25	20.6	25.7	.43	5.45	112	0	5
6	33	.9	.4						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1942									
21. xii	7 pm	42	20.6	25.5	19.36	5.05	103	0	20
	8	50	.6	.4					
	9	52	.6	.3	.20	4.98	102	0	1
	10	49	.5	24.7					
	11	42	.4	23.9	.47	.47	89	0	8
22. xii	12 m	35	.4	24.1					
	1 am	21	.0	.2					
	2	18	21.1	23.9					
	3	15	.1	24.0	.41	3.87	77	0	0
	4	24	19.4	.1					
	5	35	18.3	.4	.65	.88	78	0	13
	6	44	17.8	.0					
	7	60	20.0	23.5	.48	4.35	85	0	12
	8	64	.6	.5					
9	69	23.3	.0	.57	.60	90	0	12	
1943									
4. i	7 am	73	18.6	23.1	18.96	4.53	89	0	3
	8	71	.0	25.4					
	9	66	17.8		19.07	.18	83	0	6
	10	52	18.3						
	11	39	.3	21.2	.08	.69	89	0	3
	12 n	29	17.9	23.0					
	1 pm	18	18.3	.4	.12	5.13	101	0	1
	2	23	17.9	20.6					
	3	21	18.4	21.5	.17	.65	108	0	0
	4	31	.3	.5					
	5	39	.3	.7	.03	4.87	93	0	3
	6	52	17.8	22.1					
7	60	18.7	21.9	.04	.59	88	0	14	
8	60	.3	.9						
9	55	.9	19.9	.11	.61	86	0	3	
10	45	.9	.8						
11	36	.6	.5	.17			0	1	
5. i	12 m	25	.3	.1					
	1 am	20	.7	18.9	.24	.43	81	0	6
	2	21	.3	.9					
3	27	.3	19.2	.17	.33	80	0	1	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
5.1	4 am	33	16.7	19.4					
	5	51	15.9	20.3	19.00	4.43	81	0	0
	6	63	18.7	21.0					
	7	75	.9	.0	.10	.28	81	1	1
	8	81	19.0	20.5					
18.1	9	76	.0	.2	.16	.45	83	2	1
	7 am	78	13.3	21.8	19.45	4.25	82	0	0
	8	78	15.6	.8					
	9	72	17.1	.8	.43	.32	83	0	3
	10	64	18.1	.8					
	11	53	.3	.8	.42	.57	88	0	0
	12 n	44	.3						
	1 pm	36	.3	.9	.71	5.17	100	0	0
	2	33	.9	22.5					
	3	36	.9	23.0	.79	.29	104	0	0
	4	40	19.1	.0					
	5	48	.0	.2	.69	4.36	86	0	0
	6	55	.2	.1					
	8	64	18.9	22.8	.64	.80	94	0	7
	9	60	.5	.8	.79	5.18	102	0	0
10	55	.3	.8						
11	46	16.7	.6	.78	4.97	97	0	8	
19.1	12 m	36	14.5	.0					
	2 am	35	13.3	21.9	.55	.69	91	0	3
	3	37	.3	.7	.52	3.96		0	7
	4	46	.3	.7			76		
	5	58	.1	.8	.50	.44	66	0	0
	6	67	.3	.8					
	7	64	14.0	22.0	.48	4.57	88	0	7
	8	79	.0	.0					
	9	77	19.1	21.3	.56	.46	85	0	3

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
1.11	7 am	63	22.3	25.7	19.70	4.18	86	0	0
	8	57	23.3	.8					
	9	48	24.3	.8	.77	3.77	78	0	0
	10	39	26.2	26.1					
	11	29	29.0	.6	.73	4.07	85	0	0
	12 n	24	27.8	27.2					
	1 pm	24	31.7	.9	.77	.61	99	0	3
	2	30	.1	28.3					
	4	47	.4	.4	.76	5.25	113	0	
	5	54	30.1	.5	.78	.04	109	0	5
	6	57	29.2	.5					
7	58	28.3	.3	.85	4.62	99	0	0	
8	52	.3	.0						
9	45	27.8	27.8	.80	.60	98	0	3	
10	35	.0	.7						
11	27	26.9	.5	.82	.01	86	0	0	
12 m	23	25.6	.2						
2.11	1 am	24	23.3	.0	.83	3.93	83	0	0
	2	31	.0	26.7					
	3	41	22.3	.6	.80	4.19	88	0	12
	4	54	.0	.6					
	5	66	21.4	.4	.77	3.81	80	0	3
	6	73	.1	.3					
	7	76	.3	25.5	.74	4.33	89	0	5
	8	73	22.8	.5					
	9	64	25.3	.8	.83			0	0
15.11	7 am	65	22.2	23.8	19.92	4.51	90	2	7
	8	60	.2	.4					
	9	52	.4	.3	20.19	.01	80	0	3
	10	46	.2	.6					
	11	38	21.7	.7	.16	.47	90	0	0
	12 n	33	.7	.7					
	1 pm	31	.7	.9	.18	5.08	102	1	0
	2	33	.7	.9					
	3	38	20.9	.7	19.99	4.97	99	0	0
	4	44	.6	.7					
	5	48	.6	.6	20.08	.47	89	0	0
	6	54	.6	.6					
	7	53	.6	22.9	.35	.93	98	0	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
15. ii	8 pm	51	20.3	22.7					
	9	45	.0	23.0	20.34	4.34	86	2	7
	10	40	.1	.3					
	11	34	19.2	22.1	.38	.33	85	1	0
	12 m	31	.2	23.5					
16. ii	1 am	32	20.0	22.5	.31	.11	82	0	0
	2	36	19.4	20.5					
	3	44	.9	21.4	.21	.44	86	0	
	4	52	.7	.9					
	5	60	18.9	22.0	.05	.33	84	4	7
	6	66	.2	21.9					
	7	69	.3	.5	19.94	.32	83	0	0
	8	65	.6	.7					
	9	58	.5	.6	.96	.29	83	1	8
2. iii	7 am	51	22.2	23.5	20.26	3.69	74	0	4
	8	42	21.7	.6					
	9	33	22.8	.7	.26	4.50	90	0	6
	10	28	.2	24.0					
	11	26	23.9	.3	.08	3.50	79	0	4
	12 n	30	.3	.4					
	1 pm	35	24.4	.5	.08			0	6
	2	43	23.9	.5					
	3	49	.9	.5	.19	4.85	98	0	9
	4	52	.7	.5					
	5	57	.9	.6	.15	5.49	112	0	0
	6	52	.9	.6					
	7	48	.9	.8	.23	4.61	94	0	4
	8	42	.3	25.0					
9	35	.3	24.7	.33	.51	92	0	4	
10	29	.1	.5						
11	25	.0	.5	.30	.36	84	0	4	
12 m	32	22.2	.5						
3. iii	1 am	39	21.7	.4	.35	.01	81	0	4
	2	48	.7	.0					
	3	58	22.0	23.8	.18	.46	89	0	4
	4	65	21.2	.7					
	5	72	.1	.6	.10	.29	85	0	0
	6	72	20.9	.5					
	7	65	21.2	.2	.31	3.52	70	0	0

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
15.iii	7 am	54	20.0	23.4	20.04				
	8	48	21.6	.4					
	9	42	.8	.3	.06				
	10	37	.9	22.6					
	11	35	22.3	23.0	.39				
	12 n	36	.2	.1					
	1 pm	39	.8	.3	.40				
	2	45	.6	.7					
	3	49	.2	24.0	.56				
	4	53	.7	.1					
	5	54	.3	.0	.31				
	6	52	18.7	.5					
	7	49	.7	.4	.37				
	8	45	.8	.1					
	9	41	.3	23.9	.33				
	10	36	.3	.8					
	11	36	.3	.7	.40				
	12 m	39	.2	.7					
16.iii	1 am	43	.1	.5	.28				
	2	49	17.8	.2					
	3	55	.7	.1	.19				
	4	66	16.7	22.9	.13				
	5	65	17.2	.3					
	6	63	.8	.4	.20				
	7	61	.4	.4	.14				
	8	54	18.3	.2					
	9	46	20.6	.2	.15				
29.iii	7 am	42	19.5	19.8	20.55				8
	8	27	20.0	.8					
	9	26	.0	21.4	.60				2
	10	30	21.9	19.3					
	11	36	18.3	.6	.45				8
	12 n	42	.9	.5					
	1 pm	51	19.4	20.3	.45				4
	2	56	18.3	19.9					
	3	57	.2	20.1	.48				4
	4	53	.2	.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1943										
29.iii	5 pm	48	19.1	20.1	20.67				4	
	6	39	.2	.0					4	
	7	33	.1	18.7	.71					
	8	30	18.9	.5						
4.iv	5 pm	36	20.6	21.0	19.32	5.19	98	4	10	
	6	51	.5	20.7						
	7	63	.6	.6	.30	4.85	91	3	10	
	8	72	.3	.5						
	9	73	.6	.5	.37	.71	88	7	8	
	10	66	.9	.5						
	11	53	21.7	.5	.35	5.39	101	5	2	
	12 m	39	.7	.6						
	5.iv	1 am	28	.1	21.8	.23	.26	101	4	4
		2	19	22.2	20.9					
		3	18	20.0	.8	.35	.01	95	2	4
4		25	18.3	21.0						
5		39	.7	20.9	.44	4.49	85	2	8	
6		51	19.4	.8						
7		64	.2	.2	.50	.24	79	5	8	
8		74	.4	21.4						
9		77	20.6	20.6	.36	.35	82	9	12	
10		70	.7	.2						
11		57	.9	.4	.53	.79	90	7	2	
12 n	45	.8	.6							
11.iv	1 pm	30	.6	.7	.57	5.21	99	4	4	
	2	24	.6	21.5						
	3	18	21.6	.7	.56	.90	114	2	8	
	4	24	22.8	.1						
	5	34	.2	20.7	.67	.70	108	2	4	
	5 pm	42	18.9	20.1	19.88	5.44	102	3	0	
	6	39	19.9	19.9						
	8	41	17.8	.7	.74	.56	104	3	0	
	9	48	18.3	.5	.77	.43	101	5	0	
	10	54	.0	.3						
	11	60	.3	.2	.70	.07	94	3	21	
12 m	67	.2	.2							

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
12. iv	1 am	72	18.2	19.0	19.59	5.00	92	4	10
	2	70	17.9	.1					
	3	63	18.1	.2	.62	4.87	90	5	25
	4	58	.3	.0					
	5	50	.2	.5	.57	.72	88	5	8
	6	44	17.8	.8					
	7	38	18.3	.0	.67	.47	82	5	0
	8	35	19.7	.0					
	9	36	.9	20.0	.68	.71	88	6	0
	10	39	.7	19.2					
	11	45	.6	.3	.64	5.03	94	4	0
	12 n	51	20.1	.5					
	1 pm	54	.2	.6	.60	.07	94	6	0
	2	69	.0	.7					
	3	57	.0	20.5	.66	.89	111	3	0
	4	54	24.9	21.0					
	5	49	19.4	20.5	.67	.90	111	0	0
25. iv	6 am	23	11.4	13.6	20.01	5.02	85		0
	7	24	9.5	.6					
	8	30	11.3	14.2	19.96	.09	87		0
	9	40	13.9	.5					
	10	50	15.7	.5	20.01	.26	90		0
	11	59	16.7	15.1					
	12 n	63	18.3	.2	19.96	.17	89		0
	1 pm	62	16.7	.5					
	2	57	15.6	16.0	20.08	.41	94		0
	3	49	.6	.3					
	4	41	16.1	.3	.13	.62	99		0
	5	34	15.6	.4					
	6	30	14.4	.2	.10	.53	98		0
	7	33	13.9	.0					
	8	40	.0	15.6	.06	.52	96		0
	9	51	12.7	.5					
	10	63	10.7	.2	.01	.76	100		0
	11	71	.6	.0					
	12 m	76	.6	.0	19.96	.53	92		0
26. iv	1 am	77	.6	14.9					



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
26. iv	3 am	51	10.6	14.4	20.06	5.59	96		0
	4	48	.7	.5	.01	.26	90		0
	5	38	.5	.5					0
	6	27	9.9	.3	.05	4.67	80		
8. vi	5 pm	36	14.0	14.0	16.31	6.48	105	0-7	58
	6	36	11.7	.6					
	7	41	10.6	.2	15.90	7.28	114	5-2	48
	8	48	.0	.3					
	9	56	13.9	.3	16.17	6.38	104	0-3	114
	10	63	10.6	.3					
9. vi	11	69	.7	.8	.69	5.62	93	2-12	64
	12 m	72	.2	.8					
	1 am	69	.3	15.5	17.13	.46	91	0-8	53
	2	63	9.7	.5					
	3	54	.6	14.8	16.61	.81	96	0-9	53
	4	45	.3	.9					
	5	36	.4	13.5	.40	6.08	98	0-5	39
	6	31	8.3	.2					
	7	30	.1	.0	.38	5.91	94	0-5	48
	8	33	.9	.0					
	9	40	11.1	.4	.48	6.08	98	0-6	55
	10	45	12.2	.3					
11	54	13.9	.5	.25	.70	108	1-5	45	
12 n	57	15.0	14.4						
1 pm	60	.8	.4	.66	.61	108	2-6	55	
2	57	16.4	.5						
3	51	17.2	.5	15.51	.08	100	0-6	50	
4	46	.2	.5						
5	41	16.9	.1	16.35	.99	114	0-3	50	
23. vi	4 pm	47	13.3	11.6	17.80	6.28	100	0-7	36
	5	39	11.2	.5					
	6	34	9.4	.2	.92	.47	102	0	25
	7	32	8.3	.1					
	8	36	.0	.1	.92	5.85	92	0	42
	9	45	7.9	.0					
	10	56	.8	.0	.97	6.16	96	0-3	28
	11	66	6.8	10.8					
12 m	74	7.2	.9	.82	5.56	87	0	34	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
24. vi	1 am	77	7.2	10.8					
	2	73	.5	.6	17.94	5.99	93	0	25
	3	67	.1	.4					
	4	57	6.7	.4	.96	6.09	94	0-3	25
	5	39	.1	.2					
	6	33	.1	9.9	.92	.02	92	0	22
	7	27	.1	.1					
	8	22	8.0	.3	.01	.34	96	0	19
	9	27	10.0	.6					
	10	36	11.7	10.5	.99	.07	94	0-2	28
	11	47	12.8	11.0					
	12 n	54	15.7	10.8	18.04	.21	97	0	25
	1 pm	64	.6	.6					
	2	66	14.4	.6	17.87	.34	98	0	28
	3	65	.9	11.0					
	4	57	.4	.2	.95	.89	108	0-5	19
9. vii	9 am	36	8.9	10.1	18.29	6.13	94	0-6	
	10	45	10.0	.2					
	11	54	12.2	.4	.27	.34	98	0	
	12 n	60	14.4	.6					
	1 pm	63	18.3	.8	.19	.30	98	0-0	
	2	61	16.8	.9					
	3	57	14.4	11.5	.22	7.00	111	0	
	4	51	13.6	.1					
	5	43	12.2	.1	.24	6.62	104	0-0	
	6	39	13.3	.1					
	7	38	12.2	.0	.27	.45	101	0	
	8	40	11.9	10.9					
	9	45	8.3	.9	.29	.35	99	0	
	10	51	7.5	.8					
	11	60	.8	.7	.27	.35	99	0	
	12 m	66	.8	.6					
10. vii	1 am	68	8.0	.6	.33	.26	98	0	
	2	65	.3	.5					
	3	60	.3	.4	.18	.06	94	0-0	
	4	53	.3	.2					
	5	42	.9	.2	.34	.01	93	0-1	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
10.vii	6 am	33	7.8	10.2					
	7	29	.2	.0	18.31	5.86	89	0	
	8	27	8.0	.2					
	9	30	9.4	.0	.28	.81	89	0-3	
19.vii	8 am	54	10.3	10.3	18.42	5.54	86	0-4	0
	9	64	.8	.4					
	10	66	11.4	.4	.52	6.01	93		
	11	60	.7	.4					
	12 n	51	12.0	.4	.50	.19	96	0-5	0
	1 pm	38	.2	.5					
	2	27	.2	.7	.61	.57	103		
	3	21	.3	.7					
	4	20	.4	.9	19.61	.60	104	0-4	0
	5	26	11.2	.7					
	6	36	10.5	.7					
	7	55	8.9	.4	18.40	5.98	93		
	8	72	.6	.5	.54	.91	92	0-1	0
	9	84	7.8	.5					
20.vii	11	84	6.8	.7	.56	6.13	96		
	12 m	72	5.8	.5	.60	.00	94	0-1	3
	1 am	60	6.1	.5					
	2	41	7.3	.0	.75	5.81	90		
	3	27	8.3	9.9					
	4	17	7.8	.9	.78	.79	89	0-1	3
	5	14	.8	.5					
	6	21	8.0	.4	.80	.84	89		
	7	30	.3	.7					
	8	45	10.0	10.0	.84	.91	92	0-3	0
9.viii	8 am	24	10.2	10.1	19.02	6.12	95	0-7	0
	9	27	11.1	.4					
	10	36	.8	.5	.04	.26	98		
	11	42	12.2	.7					
	12 n	52	.2	.9	.03	.20	98	0-4	0
	1 pm	60	.2	.9					
	2	62	.8	.9	.01	.47	102		
	3	60	11.8	11.0					
4	55	12.5	.0	.07	.40	120	0-5	6	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1943										
9. viii	5 pm	45	12.2	11.4						
	6	36	.2	10.8	19.06	6.40	102			
	7	33	11.1	.9						
	8	30	10.0	.9	.07	.19	98	0-4	6	
	9	30	.7	.9						
	10	33	.7	.8	.09	.09	96			
	11	41	.0	.5						
	12 m	48	.0	.7	19.11	.18	97	0-9	3	
	10. viii	1 am	54	9.7	.7					
		2	57	10.0	.5	.09	.21	98		
		3	57	9.9	.5					
4		53	10.1	.3	.02	.13	96	0-5	0	
5		39	9.7	.0						
7		30	10.0	.2	18.92	.07	94			
8		24	.1		19.05	.13		0-5	0	
16. viii	2 pm	13		11.9	18.90	6.19	100	0-5	2	
	3	15	12.1	.9						
	4	20	.2	12.0	.91	.24	101			
	5	35	11.7	11.7						
	6	57	.6	.9	.91	.14	99	0-6	2	
	7	66	.6	.9						
	8	79	.1	12.0	19.13	5.93	96			
	9	84	10.6	.2						
	10	75	9.4	11.6	18.91	.92	95	0-3	2	
	11	65	.1	.8						
	12 m	51	8.8	.5	.94	.87	94			
17. viii	1 am	36	.3	.7						
	2	20	7.5	.4	19.19	.34	86	0-3	0	
	3	8	.2	10.9						
	4	6	8.4	.8	.25	.41	85			
	5	18	9.3	11.6						
	6	33	10.0	.6	.32	.66	91	0-3	2	
	7	45	.0	.2						
	8	59	.7	.4	18.92	.40	86			
	9	66	14.4	.5						
	10	63	13.3	.1	19.01	6.03	97	0-7	2	
	11	58	.4	.4						
	12 n	45	.9	.7	.03	.19	100			
1 pm	32	.9	12.2							
2	18	.9	.6	.08	.66	109	0-6	2		

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1943 29. viii	8 am	60	10.7	12.5	15.95	6.01	94	0-7	92	
	9	52	12.0	.6						
	10	43	.8	13.5						
	11	33	14.4	.4						
	12 n	26	15.0	12.7	.41	.07	95	0-8	75	
	1 pm	24	16.9	13.4						
	2	26	.7	.5						
	3	33	17.2	.4						
	4	45	.9	.1	14.71	.61	104	0-6	96	
	5	55	16.0	.0						
	6	64	14.4	.2						
	7	72	12.0	.7						
	8	73	11.0	.8	17.98	.14	101	1-8	57	
	9	67	10.3	.8						
30. viii	10	58	8.9	.7						
	11	43	7.2	.2						
	12 m	36	.0	12.8	16.08	.15	98	0-9	89	
	1 am	24	6.1	.4						
	2	21	.1	.0						
	3	22	.1	11.8						
	4	30	10.0	.0	15.12	.05	92	0-9	89	
	5	40	5.0	12.5						
	6	51	.0	.2						
	7	60	.0	13.0						
	8	62	8.2	.1	16.30	5.80	93	0-8	79	
	13. ix	8 am	69	8.9	15.4	19.04	5.39	92	0-6	0
		9	61	10.0	14.7					
		10	57	12.2	15.5	18.36	.90	101		
11		36	13.1	.3						
12 n		26	12.8	.7	.33	6.48	111	0-7	7	
1 pm		18	13.9	16.3						
2		19	14.4	.4						
3		26	.8	.0						
4		38	.4	15.6	.34	.01	103	1-9	0	
5		50	.4	.4						
6	75	11.1	.5							
7	84	.1	.5							

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
13. ix	8 pm	87	11.2	15.2	18.20	5.62	95	0-9	12
	9	81	.4	.0					
	10	57	.7	14.6					
	11	51	.7	.8					
	12 m	39	10.6	.1	.40	.38	90	0-9	9
14. ix	1 am	27	.1	.6					
	2	14	9.5	.4					
	3	14	10.1	.4					
	4	23	.3	.0	.30	.51	92	0-9	9
	5	35	.1	.0					
	6	46	.0	.0					
	7	63	.0	.5					
	8	75		.6	.18	.62	94	0-7	14
27. ix	8 am	57		15.9	18.62	4.98	86	1-4	17
	9	54		.9					
	10	45		16.3					9
	11	33		.4					
	12 n	26		.5	.45	5.39	94	1-4	12
	1 pm	25		.6					
	2	28		.5					17
	3	36		.5					
	4	45		.4	.33	.50	96	1-8	12
	5	57		.4					
12. x	6 am	23	13.3	17.1	15.30	5.24	89		
	7	21	.3	.1					
	8	25	.9	.0					
	9	33	16.6	.4					
	10	42	17.3	.5	14.48	.73	97		
	11	54	19.4	.5					
	12 n	63	.4	.9					
	1 pm	66	.4	.8					
	2	63	.7	18.9	.72	6.35	110		
	3	60	20.1	19.4					
	4	51	.6	20.1					
	5	37	19.7	.7					
	6	29	20.0	.2	.61	.49	115		

Location: SHELL POINT

Date	Time	Tide (ft.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P.	NO <sub>3</sub> -N
1943									
12. x	7 pm	12	18.9	20.6					
	8	22	.9	.3					
	9	24	17.3	.0					
	10	33	18.6	19.7	14.67	5.99	105		
	11	39	.6	.7					
	12 m	48	16.1	18.6					
13. x	1 am	51	.7	.7					
	2	55	17.2	.5	15.34	.18	90		
	3	51	.2	.4					
	4	45	.8	.4					
	5	33	16.1	.1					
	6	15	15.6	.0	.74	.07	88		
18. x	7 am	27	16.7	17.8	17.12	4.55	80	0-0	9
	8	33	17.4	18.0					
	9	42	19.5	.1					
	10	54	25.8	.3					
	11	63	24.7	.6	.54	.27	76	0-1	4
	12 n	68	.1	.8					
	1 pm	71	26.1	.6					
	2	64	23.2	20.9					
	3	55	21.4	.7	.17	5.56	102	0-1	7
	4	41	19.4	.1					
	5	33	.4	.0	.19	.49	104		
	6	25	.4	.7					
7	21	.4	.5	.17	.73	104	0-3	7	
8	24	.4	.2						
9	30	.4	.0						
10	36	20.1	19.0						
11	45	18.6	.1	.22	.62	101	0-0	14	
12 m	51	.1	18.4						
19. x	2 am	54	16.4	19.0					
	3	48	.2	.0	.19	.01	86	0-0	7
	4	42	15.0	18.8					
	5	34	.6	.5					
	6	30	16.0	.4					
7	27	15.0	.2	.31	4.97	88	0-1	4	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
8. xi	7 am	66	13.0	17.1	18.23	4.71	83	0	4
	8	59	.3	.1					
	9	48	.9	.5					
	10	39	14.4	.8					
	11	33	15.0		.63	5.16		0-3	7
	12 n	27	.2	18.2					
	1 pm	24	.7	.0					
	2	33	.9	17.8					
	3	42	.6	18.5	.62	.89	106	0-2	4
	4	52	.7	19.1					
	5	63	16.1	18.5					
	6	73	.7	19.1					
	7	73	15.6	17.1	.31	6.13	112	0-0	8
	8	62	.6	19.1					
	9	51	13.9	.1					
	10	39	12.8	.1					
	11	26	.8	.1	.64	5.33	97	0-4	7
	12 m	15	.8	20.4					
9. xi	1 am	14	.8	.6					
	2	21	13.1	22.0					
	3	30	.3	18.4	.64	.13	92	0-4	7
	4	43	12.5	.2					
	5	54	.2	.5					
	6	66	.5	.6					
	7	70	13.1	.7	.66	.14	93	0-5	12
22. xi	7 am	55	15.3	17.9	18.01	4.92	87	0-1	17
	8	45	.3	.8					
	9	40	.6	.8					
	10	36	16.4	.6					
	11	31	14.4	18.3	.31	5.33	96	0-0	17
	12 n	33	.7	.5					
	1 pm	39	15.0	.7					
	2	43	.0	.8					
	3	52	17.9	19.0	.15	.75	105	0-3	15
	4	57	18.3	.4					
	5	61	.3	.6					
	6	60							



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
22. xi	7 pm	53	17.8		18.17	6.00		0-1	22
	8	48	.2						
	9	41	16.7						
	10	29	14.4	17.1					
	11	24	13.9	.1	.16	5.42	95	0-3	17
23. xi	2 am	36	.6	.5				0-3	20
	3	42	14.4	18.9	.25	.50	99		
	4	51	11.8	.6					
	5	58	13.9	.7					
	6	62	14.4	.7	.25	4.83	87	0-0	22
	7		15.6	.6					
9. xii	8 am	79	16.4	19.2	18.51	4.79	86	0-4	0
	9	72	17.2	18.7					
	10	63	18.1	.8					
	11	48	19.2						
	12 n	36	.3	19.7	.53	5.23	96	0-5	0
	1 pm	29	.2	20.5					
	2	25	18.9	21.4					
	3	27	19.2	.8					
	4	36	18.9	22.0	.32	.61		0-3	4
	5	42	19.4	21.6					
	6	54	18.9	20.0					
	7	63	.6	.5					
	8	65	17.9	21.0	.50	.20	108	0-8	0
	9	61	.8	.5					
	10	53	.5	.0					
	11	41	.8	20.0					
	12 m	28	.2	.0	.54	4.72	87	0-12	2
10. xii	1 am	24	18.3	.0					
	2	23	17.6	.1					
	3	28	.2	.0					
	4	36	.2	19.9	.63	.78	89	0-8	0
	5	51	16.7	.9					
	6	63	17.2	.9					
	7	73	.4	20.0					
	8	78	16.1	19.9	.67	.93	91	0-7	4

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1943									
20. xii	7 am	42	15.3	20.0	18.46	5.03	93	0-5	8
	8	39	17.0	.1					
	9	36	18.5	.5					
	10	39	21.4	21.0					
	11	42	22.2	.4	.48	.20	98	0-4	4
	12 n	48	.1	.7					
	1 pm	53	21.8	22.1					
	2	57	.8	.2					
	3	57	22.3	.5	.57	.21	101	0-3	6
	4	60	.0						
	5	56	21.7	23.3					
	6	50	.7	.9					
	7	42	22.0	24.4	.67	4.76	95	0-12	4
	8	34	.0	.3					
	9	28	21.8	.0					
	10	26	.4	23.7					
	11	27	.1	.3	.69	.35	85	0-4	4
	12 m	33	.1	.2					
21. xii	1 am	39	20.7	.1					
	2	45	19.4	.0					
	3	52	18.6	22.8	.52	.41	85	0-6	4
	4	58	.1	.2					
	5	59	17.0	.1					
	6	55	16.7	.3					
	7	46	18.6	.2	.70	.03	78	0-1	4
1944									
5. i	5 pm	61	23.3	27.2	18.90	5.06	106	0-7	4
	6	61	.1	.3					
	7	60	.1	.2		4.71			
	8	51	22.8	.6					
	9	45	.8	.8	.97	.49	95	0-5	4
	10	36	.8	.5					
	11	31	23.3	.5		.04			
	12 m	27	21.1	.0					
6. i	1 am	32	19.8	26.5	.95	.35	90	0-4	6
	2	37	20.0	.3					
	3	46	19.4	25.9		.43			
	4	57	.2	.8					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
6. i	5 am	68	18.9	25.5	18.98	4.21	86	0-2	4	
	6	73	.3	.5						
	7	73	.9	.3		3.98				
	8	66	21.4	.0						
	9	57	26.1	24.9	19.07	.69	75	0	6	
	10	48	22.2	.9						
	11	36	.8	25.8		4.16				
	12 n	31	23.1	26.1						
	1 pm	30	.3	.7	.02	.20	88	0-8	6	
	2	32	22.8	.8						
	3	39	.8	27.3		.29				
	4	48	.8	.2						
	5	54	.8	26.6	.02	.27	89	0	4	
	16. i	9 am	42	21.1	24.5	19.32	4.04	81		0
		10	53	.4	.9					
11		60	.7	25.0		.28				
12 n		67	22.2	.3						
1 pm		70	.8	.3	.30	.25	87		2	
2		65	.8	.9						
3		60	.8	.7		5.00				
4		50	.3	.4						
5		42	.5	.4	.40	3.81	78		0	
6		34	.3	.4						
7		28	.1	.4		4.74				
8		29	21.7	.2						
9		33	.7	.1	.44	.71	97		0	
10		39	22.2	.0						
11		48	21.1	24.9		.53				
12 m	55	20.2	.7							
17. i	1 am	61	.0	.7	.38	.53	92		0	
	2	63	19.4	.7						
	3	57	.4	.5		.30				
	4	53	18.3	.5						
	5	48	.1	23.2	.39	3.99	79		4	
	6	41	17.9	.9						
	7	36	18.1	.7		4.07				
	8	39	19.4	.9						
	9	42	20.6	24.5	.35	.51	91		0	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
30.1	7 am	20	22.5	25.0	19.77	3.67	75	7-25	2
	8	23	23.1	.0					
	9	31	24.3	.2		4.21			
	10	43	.5	.4					
	11	55	.7	.8	.48	.29	88	3-12	2
	12 n	66	25.6	.9					
	1 pm	73	.6	26.2		.53			
	2	70	.6	.8					
	3	63	.6	27.6	.54	5.29	113	1-27	0
	4	52	.3	.9					
	5	40	.6	28.2		3.86			
	6	29	.6	.1					
	7	22	.1	.0	.99	.52	76	1-37	2
	8	18	24.4	27.3					
	9	22	.4	.3		.97			
	10	31	.0	.0					
	11	42	.0	26.5	20.06	2.47	52	3-17	0
	12 m	54	23.9	.8					
31.1	2 am	66	.3	.3		4.20			
	3	63	22.8		19.72	.79		0-15	0
	4	57	23.4						
	5	48	22.8	25.2		3.53			
	6	36	.0	.3					
	7	27	21.1	24.6	.99	.97	81	0-14	0
12.11	6 pm	22	22.8	25.4	20.13	5.51	114	0-5	6
	7	23	.8	.4					
	8	32	.5	.3		.13			
	9	40	.2	.2					
	10	49	.2	.1	.26	.13	105	0-2	6
	11	59	.3	24.8					
	12 m	63	21.7	.5		.05			
13.11	1 am	63	22.2	.5					
	2	57	.0	.3	19.94	4.81	97	5-0	6
	3	48	21.7	.2					
	4	39	.1	.2		.07			
	5	33	20.0	23.9					
	6	27	18.3	.3	20.07	.20	83	0-9	6

Location: SHELL POINT

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
13. 11	7 am	29	18.3	23.3					
	8	35	20.0	.5		4.36			
	9	45	22.4	.6					
	10	57	23.9	24.1	19.85	.64	93	0-9	8
	11	63	24.4	.2					
	12 n	69	21.7	.4		.26			
	1 pm	66	24.1	.6					
	2	60	.6	25.8	.93	5.25	109	0-7	4
	3	54	25.0	26.6					
	4	39	.3	.4		4.67			
	5	33	.4	.4					
6	27	.0	.3	20.25	.70	99	0-10	6	
2. 11	8 am	37	20.6		19.96	4.22	90	0-3	26
	9	33	.6	21.3					
	10	32	21.3	.6	.93	.35	94	1-4	36
	11	33	.2	.6					
	12 n	39	.1	.5	.94	.61	89	0-7	36
	1 pm	48	22.2	22.5					
	2	51	.2	.7	.88	5.77	108	1-7	44
	3	54	.1	.8					
	4	54	.2	23.0	.94	3.91	77	0-5	30
	5	52	.1	.3					
	6	46		.0	.94			3-4	17
7	42		22.5						
9	35	21.1	.5	.98			4-9	32	
10	33	.1	23.0	20.00			3	17	
11	31	.1	22.8						
3. 11	1 am	41	.1	.5	.06			2-1	20
	2	62	.4	.5	19.94	5.03	98	2	24
	3	67	.1	.5					
	4	69	20.0	.5	.92	.01	98	5-2	20
	5	66	19.4	.3					
	6	63	17.8	.3	.92	.01	98	2-3	17
	7	55	16.7	.0					
	8	48	18.3	21.9	.92	4.97	96	1-5	32

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
13.iii	8 am	51	14.2	19.5	19.90	4.73	88	5-15	20
	9	63	16.4	.9					
	10	67	17.0	.9		.70			7
	11	76	18.4	20.5					
	12 n	78	20.0	.7	.93	.73	90	6-14	9
	1 pm	72	22.2	.6					
	2	60	25.0	.6		.80			9
	3	51	.9	22.7					
	4	39	23.9	21.8	.98	5.77	112	5	2
	5	36	22.1	.8					
	6	31	.2	.9		.66			3
	7	25	20.0	.6					
	8	33	.0	.1	20.01	.75	110	5-19	18
	9	46	18.0	.5					
	10	68	17.9	.3		4.85			11
	11	71	.3	20.9					
	12 m	73	.1	.5	.04	.55	86	6-12	11
14.iii	1 am	74	15.6	22.6					
	2	66	16.7	20.5		.49			11
	3	57	.1	.5					
	4	48	15.0	.4	.06	.82	91	3-15	3
	5	41	13.9	.1					
	6	36	12.8	.0		.77			3
	7	36	13.3	19.9					
	8	39	14.3	.9	.14	.80	90	5-10	16
27.iii	7 am	39		19.5	19.92	4.79	89	4-5	0
	8	48	17.5	.6					
	9	60	18.5	.7		.79			0
	10	71	22.5	20.2					
	11	72	.0	.3	.86	.81	91	8-3	2
	12 n	67	21.4	.4					
	1 pm	56	.7	.9		5.82			2
	2	54	.3	.7					
	3	39	20.6	21.1	.91			4-6	0
	4	24	.9	.2					
	5	18	21.1	.4		.39			0
	6	24	.1	.1					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
27. iii	7 pm	36	21.1	21.5	20.02	3.22	62	6-8	2
	8	50	20.0	.0					
	9	62	.9	20.5		5.25			
	10	70	.0	.5					
	11	75	19.5	.5	19.89	4.86	92	5-4	3
28. iii	12 m	72	18.3	22.0					
	1 am	63	17.8	20.1		6.21			
	2	52	.2	.0					
	3	41	.0	.0	.86	4.88	92	5-2	2
	4	29	14.4	19.9					
	5	16	.4	21.1		.43			
	6	19	12.8	19.0					
	7	21	13.3	.0	.81	.40	82	3-6	0
16. iv	8 am	27	12.2	15.6	19.68	5.23	91	0-3	9
	9	32	13.3	.6					
	10	39	15.0	16.1		.20			
	11	45	17.2	.6					
	12 n	49	18.3	.1	.68	.19	91	0-6	3
	1 pm	57	19.3	.4					
	2	61	21.1	.5		.63			
	3	60	19.4	.7					
	4	58	18.9	.8	.66	.82	104	1-3	11
	5	54	15.6	.8					
	6	47	17.8	17.5		.92			
7	42	11.5	.0						
8	39	15.6	16.7	.63	6.02	107	0-3	11	
9	42	14.5	17.5						
10	44	13.3	.1		5.69				
11	51	12.9	16.3						
17. iv	12 m	60	11.7	.2	.68	.31	93	5-0	14
	1 am	66	.7	17.1					
	3	74	12.0	.1		.51			
	4	71	11.7	.1	.70	.30	95	2-4	3
	5	66	.1	15.8					
	6	55	10.0	.5		.25			
	7	48	11.7	.6					
	8	39	12.8	.6	.69	.25		9-0	20

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
28. iv	8 am	36	17.5	15.6	19.86	4.99	87	0-7	0
	9	40	19.2	.7					
	10	48	21.3	16.0		.96			
	11	54	22.2	.1					
	12 n	60	18.9	.1	.84	5.26	92	0-6	2
	1 pm	60	19.0	17.1					
	2	57	18.1	.4		.87			
	3	51	17.8	.5					
	4	46	.8	.4	.90	6.10	110	1-8	0
	5	42	.3	.2		.43			
	6	39	.2	.1					
	7	39	.0	16.9					
	8	45	15.0	.9	.92	5.81	104	0-5	0
	9	51	.0	.7					
	10	58	14.8	.5		.53			
	11	66	13.9	.3					
	12 m	72	.9	.2	.84	.43	95	0-7	0
29. iv	1 am	74	12.8	.5					
	2	70	.8	.6		.42			
	3	63	.21	.6					
	5	45	11.7	.4	.75	.35	94	1-5	2
	6	36	.1	.2		.18			
	7	33	.4	15.9					
	8	30	13.3	.9	.82	4.99	87		0
7. v	4 pm	47	17.1	15.0	19.98	5.94	102	0-26	0
	5	56	16.1	14.9					
	6	67	15.0	.9	.97	.70	98		
	7	76	13.5	.1					
	8	80	.4	.2	.98	.39	92	0-15	0
	9	79	12.8	15.1					
	10	70	.8	.1	.96	.70	98		
	11	60	.0	.0					
	12 m	48	11.7	.0	.90	.69	98	0-11	9
8. v	1 am	40	12.0	.0					
	2	32	11.1	14.9	.96	.60	95		
	3	27	9.4	.3					
	4	33	10.6	.5	20.04	.69	97	0-16	2



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
8. v	5 am	42	11.0	14.5						
	6	51	10.0	.4	19.95	5.49	94			
	7	63	11.1	.4						
	8	72	12.9	.1	20.00	.49	93	5	0	
	9	69	13.9	.1						
	10	60	17.2	.3	.04	.49	94			
	11	54	18.9	.6						
	12 n	44	19.5	.9	.04	.59	96		3	
	1 pm	30	20.1	15.6						
	2	27	.6	.8	.04	6.05	105			
	3	27	21.1	16.0						
	4	33	18.3	15.7	.06	.03	105		15	
	21. v	7 am	66	15.0	15.0	19.63				0-11
		8	65	.6	.1					
9		58	.6	.5						
10		49	16.1	16.2						
11		36	15.9	15.5	.58	4.69	85		0-6	
12 n		26	16.7	.6						
1 pm		16	.8	.9		.81				
2		15	18.3	16.1						
3		24	17.8	.1	.63	5.29	93		2-8	
4		35	.1	.2						
5		45	15.7	.0		.20				
6		64	.4	15.8						
7		74	.5	.4	.66	.11	89		0-12	
8		76	.0	.2						
9	71	14.6	.8		.03					
10	62	.4	.8							
11	48	.7	.8	.63	4.83	.84		4-14		
22. v	12 m	40	.4	.6						
	1 am	28	.7	.5		5.00				
	2	22	.7	.4						
	3	16	.4	.5	.62	4.69	82		0-14	
	4	25	.4	.7						
	5	36	.1	.5		.61				
	6	45	13.4	.5						
7	57	.6	.7	.71	.71	82		0-15		

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
4. vi	3 pm	39	15.9	13.4	19.62	5.75	96	0-2	4	
	4	48	.3	.3						
	5	57	14.2	.4	.62	6.03	101			
	6	66	13.4	.4						
	7	69	.4	.3	.63	5.89	98	0-4	2	
	8	63	.6	.1						
	9	57	.9		12.9	6.02				
	10	46	14.0	.9						
	11	36	13.3	.8	.74	5.81	95	0-1	2	
	12 m	25	.1	.7						
	5. vi	1 am	20	.3	.5		.23			
		2	21	.1	.2					
3		27	11.7	.0	.78	.59	90	0-20	5	
4		36	8.3	.0						
5		48	.1	.2		.37				
6		57	6.9	.6						
7		57	.7	.6	.65			0-23	4	
8		53	9.7	.5						
9		48	10.6	.5		.55				
10		42	12.2	.6						
11		30	15.0	.9	.61	.69	93	0-20	4	
12 n		21	17.0	13.4						
1 pm	21	16.4	.6		6.27					
2	24	17.2	.8							
3	30	16.4	.8	.65	.22	104	0-5	0		
24. vi	5 am	18	7.0	11.1	19.65	5.90	95	0-0	1	
	6	21	.5	.1						
	7	27	.8	.2		.89				
	8	36	.8	.3						
	9	45	10.6	.3	.02	6.10	98	0-2	1	
	10	54	13.3	12.0						
	11	54	.6	.1		.24				
	12 n	50	.9	.2						
	1 pm	42	.9	.1	.67	.76	111	0-2	4	
	2	36	14.2	.6						
	3	30	13.9	.7		.79				
	4	25	.9	.5						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
24. vi	5 pm	24	13.3		19.77	6.89		0-0	0	
	6	30	10.6	12.6		.58				
	7	38	.0	.5		.24	103			
	8	46	8.9	.5						
	9	57	7.8	.4	.60	.11		0-2	0	
	10	64	.5	.4						
	11	71	.2	.3		.23	102			
	12 m	69	.2	.3						
	25. vi	1 am	61	.0	.3	.65	.23		2-1	4
		2	51	6.7	11.6					
3		42	.7	.6						
4		30	.1	.5						
5		24	.1	.3	.65	5.91	95	0-3	1	
6. vii	8 am	57	10.6	12.5	18.75	5.68	92	0-1	10	
	9	52	12.2	.0						
	10	42	.8	.1		.74				
	11	33	.9	.5						
	12 n	26	13.9	.5	.48	6.37	103	0-1	4	
	1 pm	19	16.1	13.1						
	2	21	.7	.5		.62				
	3	30	17.2	.5						
	4	40	.3	.2	.61	.24	103	0-1	6	
	5	54	16.1	.0						
	6	65	14.4	.1		5.96				
	7	75	13.9	.0						
7. vii	8	76	14.4	12.9	.77	.93	97	0-1	12	
	9	70	12.5	13.0						
	10	61	11.7	.2		.90				
	11	48	.1	.0						
	12 m	35	10.8	.0	.69	.80	95	0-4	6	
	1 am	23	.6	12.9						
	2	12	.0	.6		.85				
	3	11	8.3	.5						
	4	17	6.7	.5	.74	.51	90	0-2	14	
	5	26	.7	.2		.61				
6	36	7.2	.1							
7	49	.2	.0							
8	56	.2	.2	.63	.93	96	0-2	10		

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl <sup>-</sup> ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
16. vii	3 pm	51	10.9	11.9	18.95	7.04	114	0-0	9
	5	66	11.7	.5		6.60			
	6	67	10.6	.5					
	7	63	8.1	.5	.97	.23	100	0-0	12
	8	55	7.2						
	9	44	6.1	.5		.22			
	10	33	.1	.5					
	11	25	5.9	.4	.98	.69	107	0-0	4
	12 m	18	6.1	.2					
17. vii	1 am	22	.1	.2		.60			
	2	28	.3	.3					
	3	33	4.2	10.7	19.07	.22	98	0-1	5
	4	42	.4	.5					
	5	48	3.3	.6		.40			
	6	52	.3	.4					
	7	50	.2	.4	18.96	.28	98	0-8	10
	8	42	4.7	.4					
	9	36	6.7	.4		.30			
	10	26	.7	.2					
	11	21	9.4	.1	.90	.66	104	0-0	6
	12 n	18	11.7	11.0					
	1 pm	24	13.7	.3		7.00			
	2	30	15.0	.6					
	3	43	.8	.9		.20	116	0-5	4
30. vii	4 pm	63	16.3	12.6	19.11	6.49	106	0-3	0
	5	63	19.2	.5					
	6	57	15.3	.6		.36			
	7	48	13.5	.5					
	8	40	12.5	.5	.15	.40	105	0-2	9
	9	33	11.4	.6					
	10	28	.1	.4		.19			
	11	27	.7	.2					
	12 m	31	.7	11.9	.16	.19	100	0	0
31. vii	1 am	37	10.6	.9					
	2	43	.0	.9		.11			
	3	49	.0	.8					
	4	51	8.5	.8	.16	.20	100	0-2	3

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1944										
31. vii	5 am	50	7.2	11.7						
	6	45	.2	.7		6.04				
	7	39	.1	.5						
	8	33	8.2	.4	19.21	5.98	96	0-2	0	
	9	28	9.6	.4						
	10	24	12.8	.3		6.19				
	11	27	14.7	.4						
	12 n	30	16.1	12.2	.15	.40	104	0-0	1	
	1 pm	42	18.0	.6						
	2	48	.3	.8		.47				
	3	57	19.4	.8				0	0	
	4	64	18.5	.7		.36				
	16. viii	9 am	42	13.3	13.5	18.94	5.64	90	0-6	5
		10	36	.3	.7					
11		27	15.6	14.1		6.05				
12 n		21	17.2	.6						
1 pm		21	.4	15.2	.89	.26	107	0-5	2	
2		28	16.7	.4						
3		36	.1	.4		.43				
4		46	.1	.1						
5		57	15.6	.1	.90	.12	104	0-26	0	
6		63	.0	.0						
7		70	.1	14.8		5.88				
8		66	13.9	.9						
9		58	.1	.9	.90	.93	101	6-7	0	
10		47	12.5	.8		.73				
11	35	.0	.8							
12 m	24	11.7	.8							
17. viii	1 am	21	.4	.8	.90	.33	89	0-4	0	
	2	18	.1	.8						
	3	18	.1	.4		.29				
	4	30	9.8	.2						
	5	39	.1	.0	.93	.70	95	0-5	0	
	6	48	8.1	.0						
	7	52	7.5	13.9		.77				
	8	54	8.6	.9						
	9	48	12.8	.9	.89	.79	97	1-2	0	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
10. ix	3 pm	66	13.6	16.6	19.37	6.50	114	0-5	0
	4	63	.3	.6					
	5	57	.9	.8	.33	.35	112		
	6	47	.1	.5					
	7	39	12.5	.5	.37	.15	108	0-3	0
	8	30	11.7	.5					
	9	25	9.2	.3	.37	.00	105		
	10	24	8.6	.1					
	11	27	.3	15.7	.32	5.96	103	0-4	0
	12 m	33	.3	.5					
11. ix	1 am	39	7.8	.5	.37	.92	101		
	2	45	.5	.4					
	3	51	.2	.2	.35	.68	98	1-6	0
	4	52	.4	.1					
	5	51	8.3	.0	.37	.48	94		
	6	48	.3	.0					
	7	40	7.2	14.5	.38	.41	92	0-6	0
	8	34	9.2	.6					
	9	30	11.7	.1	.33	.68	96		
	10	30	15.0	.7					
	11	36	16.7	15.1	.33	.78	99	2-4	0
	12 n	42	19.2	.1					
	1 pm	48	.4	.8	.31	.65	98		
	2	57	20.0	.9					
	3	63	.0	.8	.31	.77	100	2-5	0
24. ix	3 pm	48	17.8	17.7	19.35	6.30	113	1-8	0
	4	39	.5	.9					
	5	31	.2	.0	.36	.25	111		
	6	27	.0	.6					
	7	24	.2	.5	.42	5.70	102	2-3	0
	8	26	.2	.5					
	9	30	16.4	.3	.42	.44	97		
	10	36	14.7	.3					
	11	43	.4	.3	.43	.67	101	2-3	16
	12 m	48	13.3	.2					
25. ix	1 am	51	12.8	.0	.43	.53	99		
	2	48	.4	.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
25. ix	3 am	43	12.8	16.9	19.42	5.24	93	0-10	0
	4	38	11.7	.8					
	5	30	12.0	.5	.43	4.82	85		
	6	26	.0	.4	.40	5.00	88	2-4	0
	7	24	.8	.4					
	8	27	14.6	.6					
	9	31	15.9	.7	.34	.47	96		
	10		18.7	.7					
	11	48	20.2	17.3	.36	.60	95	1-10	0
	12 n	54	21.4	.3					
	1 pm	60	20.6	.4	.35	.92	106		
	2	60	19.4	.0					
	3	57	.6	18.1	.32	6.00	108	1-9	0
9. x	3 pm	60	23.9	21.7	19.26	6.45	124		
	4	53	.3	22.0					
	5	45	.2	.2	.27	.45	125	5	0
	6	34	.1	21.9					
	7	27	.3	.9	.36	5.75	111		
	8	24	22.8	.9					
	9	27	20.6	.8	.31	.80	111	3	0
	10	34	18.6	.6					
	11	40	19.2	.4	.37	.82	111		
	12 m		17.8	.2					
10. x	1 am	52	18.3	20.8	.27	.80	109	2	0
	2	52	19.4	.1					
	3	51	18.7	.1	.36	.62	105		
	4	45	.0	.0					
	5	40	17.8	.0	.31	.30	99	3	0
	6	36	.2	.0					
	7	31	19.4	19.8	.31	.15	96		
	8	31	21.1	.7					
	9	34	22.0	.8	.31	4.92	91	2	0
	10	40	23.9	.9					
	11	48	27.8	20.2	.28	5.47	102		
	12 n	55	29.4	.2					
	1 pm	63	30.8	.3	.26	.58	104	2	0
	2	67	31.1	.5					
	3	66	.1	.6	.31	.93	111	0-7	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
24. x	2 pm	54	17.2	19.3	19.91	5.85	107	0-8	0
	3	42	.2	.3					
	4	32	.8	.4	20.06	.91	110		
	5	25	.5	.5					
	6	20	.2	.2	19.91	.93	110	0-11	0
	7	23	.0	.4					
	8	32	16.2	.3	.91	.95	111		
	9	42	.4	.2					
	10	51	.2	18.9	.77	.78	106	0-8	8
	11	55	.8	.9					
	12 m	58	.4	.7	.78	.65	104		
25. x	1 am	54	.2	.5					
	2	48	15.6	.4	.82	4.86	89	0-10	0
	3	40	.0	.3					
	4	24	14.7	.2	.85	.73	86		
	5	30	.2	.1					
	6	26	13.9	.0	.75	.96	90	0-2	0
	7	33	15.3	.0					
	8	39	18.3	19.3	.72	5.30	97		
	9	51	.9	18.5					
	10	60	.3	.9	.60	.25	97	1-5	2
	11	68	.6	19.0					
	12 n	70	.3	.0	.57	.45	101		
	1 pm	65	.1	20.4					
	2	60	.0	.6	.74	.97	113	0-7	0
10. xi	3 pm	66	21.1	22.7	19.78	5.22	103	2-4	0
	4	60	.1	.8					
	5		.8	23.6	.93	4.98	99		
	6	45	22.2	.5					
	7	39	18.3	.6	20.02	.65	93	7-8	0
	8	33	.9	.7					
	9	33	.9	.0	19.95	.34	86		
	10	36	.3	22.8					
	11	42	12.8	.3	.84	.76	93	2-4	0
	12 m	48	13.3	.2					
11. xi	1 am	54	19.0	.8	.84	.75	94		
	3	60	15.1	.7	.78	.92	97	1-7	0



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
11. xi	4 am	57	15.0	20.5					
	5	51	14.4	.2	19.82	4.74	89		
	6	45	.4	.2				1-7	0
	7	42	15.6	.0	.78	.55	85		
	8	36	16.3	19.6					
	9	42	17.2	20.2	.80	.92	93		
	10	48	16.7	.5					
	11	51	19.5	.5	.63	5.05	95	1-11	0
	1 pm	63	.8	.6	.72	.04	95		
	2	63	17.5	.3	.85	.17	97	0-12	0
20. xi	7 am	45	22.8	20.9	20.19	4.71	90	4-3	0
	8	57	23.9	21.0					
	9	69	25.0	.1	.04	.71	90		
	10	79	26.7	.0					
	11	78	34.2	.1	.02	.82	92	2-7	0
	12 n	76	.6	.4					
	1 pm	66	35.0	.8	.05	5.08	99		
	2	55	34.7	23.8					
	3	45	36.4	22.2	.04	.76	113	0-6	0
	4	36	33.3	.4					
	5	27	34.1	.9	.04	.94	117		
	6	21	19.3	.3					
	7	26	18.3	.3	.13	.20	102	0-8	0
	8	33	17.9	21.5					
	9	42	.9	.3	.16	4.94	95		
	10	51	.8	.5					
	11	57	18.0	.5	.19	.65	90	2-9	0
	12 m	60	17.8	.2					
21. xi	1 am	54	.8	.1	.19	.76	91		
	2	48	.8	20.8					
	3	39	16.5	.8	.25	.43	85	2-7	0
	4	33	.5	.5					
	5	30	.1	.3	.22	.50	85		
	6	29	15.9	.3					
	7	36	16.1	.3	.22	.65	88	0-9	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
7. xii	10 am	45	18.9	21.2	20.22	4.70	90	0-11	0
	11	51	19.7	.7					
	12 n	60	20.0	.9	.08	.95	96		
	1 pm	63	.6	22.0					
	2	63	.9	.6	.42	5.85	115	2-5	0
	3	60	.0						
	4	54	.0	23.3	.38	.86	117		
	5	46	.0	.3					
	6	39	.0	.3	.55	.96	119	0-7	0
	7	32	18.9	.0					
	8	27	.3	22.7	.54	.63	111		
	9	27	.3	.7					
8. xii	10	31	17.8	.5	.40	.30	104	0-5	0
	11	37	.6	.3					
	12 m	45	.8	.2	.32	.12	100		
	1 am	51	.8	.0					
	2	57	.8	21.8	.25	4.89	95	1-5	0
	3	59	.8	.7					
	4	56	.2	.7	.20	.87	94		
	5	51	16.7	.6					
	6	44	18.3	.8	.16	.80	93	2-7	0
	7	41	19.4	.5					
18. xii	8	36	21.7	.8	.06	.74	92		
	9	37	.4	.9					
	10	42	22.2	22.2	.07	5.10	100	0-10	0
	7 am	57	18.9	22.0	20.28	4.21	82	1-8	0
	8	73	21.9	.4					
	9	84	22.2	.5	.15	.40	86		
	10	86	.4	.8					
	11	82	.3	23.0	.22	5.07	100	2-9	25
	12 n	72	23.9	.2					
	1 pm	60	22.8	.7	.41	4.95	100		
	2	45	23.1	24.5					
	3	39	.3	.7	.41	.95	101	2-31	0
	4	27	34.6	.9					
	5	22	22.9	.9	.46	.68	96		
	6	30	.9	.5					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1944									
18. xii	7 pm	39	22.5	24.3	20.60	4.65	95	2-5	0
	8	48	.5	.1					
	9	58	.2	.1	.22	.98	100		
	10	65	23.9	23.5					
	11	66	.1	.5	.17	.20	98	3-4	0
	12 m	60	22.2	.7					
19. xii	1 am	57	10.4	.7	.22	.58	92		
	2	48	19.4	.5	.25	.40	88	2-9	0
	3	39	18.9	.5					
	4	34	19.4	.6	.33	3.92	80		
	5	32	18.9	.5	.28	4.20	84	3-11	0
	7	48	21.1	.5					
1945									
3. i	1 pm	69	19.4	23.1	20.55			1-8	0
	2	60	18.9	.1					
	3	48	.9	.3	.81	5.25	105		
	4	39	.9	.3					
	5	27	.9	.2	.84	.28	106	0-7	7
	6	24	17.8	22.8					
	7	24	18.1	.5	.84				
	8	33	17.2	.5					
	9	42	18.3	.0	.55			0-6	0
	10	51	.1	.0					
	11	60	.1	.0	.47	4.53	89		
4. i	2 am	49	17.5	.4	.49	.52		2-7	0
	3	45	.2	.1	.49	.40	86		
	4	40	.2	.0					
	5	36	16.7	21.9	.48	3.78	74	5-2	0
	6	34	17.8	.7					
	7	36	18.1	.7	.47	4.03	78		
	8	45	.3	.9					
	9	55	.9	22.0	.44	.22	84	2-9	0
	10	66	19.2	21.9					
	11	72	.4	22.2	.30	.45	87		
	12 n	75	.4	.2					
	1 pm	72	20.9	.8	.45	.97	92	0-6	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl <sup>-</sup> ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
15.1	7 am	75	21.7	21.6	20.22	4.25	82	2-9	5
	8	81	25.0	.5					
	9	84	21.7	.9	.17	.38	85		
	10	79	.4	.6					
	11	72	.4	.8	.15	.72	91	1-19	0
	12 n	57	.4	22.4					
	1 pm	39	.2	24.2	.30	5.30	107		
	2	27	22.5	.8					
	3	18	.4	25.4	.35	6.51	135	0-9	0
	4	13	.8	26.0					
	5	17	.8	25.8	.33	7.00	146		
	6	27	.8	.0					
	7	40	21.1	24.2	.42	5.32	108	0-7	0
	8	53	.7	23.2					
	9	62	22.0	.4	.22	.01	100		
	10	63	20.7	.3					
	11	58	.6	.3	.20	4.65	93	0-2	0
	12 m	45	.0	.4					
16.1	1 am	36	.0	.3	.38	.47	89		
	2	27	22.9	.2					
	3	21	21.7	.4	.38	3.89	78	0-9	0
	4	21	.1	.3					
	5	29	18.6	.2	.32	4.25	84		
	6	39	.6	22.7					
	7	54	19.4	.6	.13	.43	87	0-6	0
30.1	7 am	64	21.7	22.7	19.92	4.30	84	1-9	0
	8	75	22.8	23.0					
	9	82	23.9	.1	.95	.30	85		
	10	84	26.7	.4					
	11	78	28.7	.3	.97	5.52	110	0-7	0
	12 n	66	.6	.3					
	1 pm	51	30.0	.5	.92	.41	108		
	2	40	29.4	.9					
	3	27	.6	24.3	20.02	.99	121	0-4	0
	4	24	30.0	.5					
	5	24	28.1	.4	.04	.88	119		
	6	30	26.4	.4					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
30.1	7 pm	45	25.1	23.3	19.89	5.02	100	0-9	5
	8	54	.0	.0					
	9	63	24.2	.0	.87	4.89	96		
	10	66	23.9	22.9					
	11	66	.9	23.0	.87	.72	93	0-7	0
	12 m	60	.9	.0					
31.1	1 am	50	.3	.0	.93	.41	87		
	2	42	22.2	.0					
	3	35	21.1	.0	.97	3.91	77	0-5	0
	4	30	20.0	22.9					
	5	36	21.0	.5	.89	.97	78		
	6	42	.7	.5					
	7	55	15.9	.6	.82			0-15	0
12.11	7 am	84	20.3	22.4	20.04	3.63	71	5	0
	8	86	.8	.4					
	9	84	.9	.4	.05	4.31	84		
	10	75	22.1	.5					
	11	60	23.9	.6	.06	.94	97	1	0
	12 n	45	24.5	23.3					
	1 pm	30	.5	.8	.19	5.73	111		
	2	21	25.7	24.8					
	3	18	26.1	25.7	.60	6.42	134	0	0
	4	26	25.3	24.5					
	5	38	.0	.4	.15	5.02	102	2	
	6	48	24.4	.0					
	7	64	23.3	.1	.10	.31	107		0
	8	69	21.1	23.4					
	9	68	20.0	.1	.06	4.80	95	0	
	10	60	.0	.3					
	11	54	.0	.1	.10	.36	86	0	0
	12 m	41	19.3	22.9					
13.11	4 am	37	17.8	21.9	.24	.23	82	0	0
	5	48	16.7	22.0	.23	.20	82	0	
	6	63	.1	.0					
	7	77	18.1	.2	.02	.48		2	0

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
26.11	7 am	72	20.5	23.8	19.81	4.20	84	5-21	26
	8	77	.6	.8					
	9	74	.9	.7	.82	.25	85		
	10	66	21.1	.6					
	11	54	20.8	.5	.87	.23	84	1-24	0
	12 n	30	21.0	.5					
	1 pm	28	.1	.4	.91	5.07	101		
	3	20	.1	.4	.94	.60	112	2-18	0
	4	27	.0	.5					
	5	36	.1	.6	.83	4.77	95		
	6	43	.3	.6					
	7	60	.0	.5	.81	.65	92	0-16	0
	8	65	20.8	.5					
	9	66	.6	.5	.85	.47	88		
	10	60	21.2	.4					
	11	53	20.6	.2	.80	.17	83	0-20	0
	12 m	43	.6	.0					
27.11	1 am	33	19.7	.0	.82	3.87	76		
	2	27	.4	22.9					
	3	22	.4	.8	.81	4.00	79	2-12	0
	4	22	.4	.7					
	5	30	.2	.7	.91	3.92	77		
	6	54	18.6	23.0					
	7	69	19.4	.0	.87	.98	79	2-9	0
12.iii	4 pm	36	20.3	21.5	20.28	5.37	104	4-5	4
	5	45	.0	.6					
	6	54	.0	.5	.12	.14	99		
	7	65	19.3	.2					
	8	65	18.6	.1	.15	.04	97	4-4	0
	9	59	.9	.1					
	10	42	16.7	.0	.15	4.80	92		
	11	36	.1	.0					
	12 m	27	.1	20.9	.22	.43	85	4-3	0
13.iii	1 am	21	.1	.2					
	2	22	14.8	.2	.25	3.88	73		
	3	29	15.4	.4					
	4	41	16.0	.8	.21	4.67	89	1-6	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
13.iii	5 am	56	15.8	20.9					
	6	71	16.1	21.1	20.12	4.50	86		
	7	80	15.0	.2					
	8	84	17.6	20.2	19.93	.98	94	2-3	0
	9	76	19.7	.5					
	10	63	21.1	.7	20.00	5.02	95		
	11	47	22.6	21.1					
	12 n	33	23.2	.7	.19	.99	116	2-22	0
	1 pm	18	22.5	23.0					
	2	15	23.2	.4	.43	6.51	130		
	3	15	.1	.8					
	4	24	.1	.2	.50	5.45	109	3-20	1
26.iii	9 am	66	21.7	21.1	20.14	4.99	96	2-0	9
	10	55	22.8	.7					
	11	45	21.7	.8	.08	.98	95		
	12 n	36	.1	22.0					
	1 pm	27	.1	.7	.18	5.85	115	0-5	9
	2	27	.1	23.1					
	3	31	.1	.5	.56	6.42	129		
	4	39	.4	.1					
	5	54	20.6	22.2	.18	5.08	99	4-0	9
	6	61	.9	.0					
	7	69	.3	21.9	.12	.06	98		
	8	70	.0	22.0					
	9	64	.2	21.5	.39	4.66	90	1-1	9
	10	51	19.4	.3					
	11	39	.1	.4	.37	.56	88		
	12 m	38	18.9	.1					
27.iii	1 am	32	17.7	.2	.42	.60	88	4-3	9
	2	32	17.8	20.9					
	3	38	.5	.6	.52	.60	88		
	4	46	.3	.6					
	5	57	.2	.5	.32	.50	86	2-3	9
	6	67	.2	.5					
	7	74	.2	.4	.20	.82	91		
	8	75	.2	.5					
	9	69	.8	.0	.16	5.03	95	2-2	9

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
10. iv	10 am	42	21.1	17.9	18.54	4.91	88	0-5	12
	11	30	22.2	18.2					
	12 n	20	23.2	19.0	.40	6.26	114		3
	1 pm	19	.3	.7					
	2	27	.9	.3	.62	5.72	105	2-0	12
	3	38	.3	.1					
	4	52	21.5	18.9	.63	.06	92		16
	5	63	20.1	.6					
	6	72	.6	.3	.47	4.93	89	1-8	27
	7	72	19.7	.3					
	8	66	18.6	.5	.47	5.33	96		12
11. iv	9	55	17.8	.7					
	10	42	.8	.7	.53	4.95	90	2-4	9
	11	33	18.2	.9					
	12 m	26	17.9	.8	.63	.69	85		5
	1 am	21	.4	.6					
	2	28	.0	.6	.62	.75	86	0-5	9
	3	39	16.7	.5					
	4	54	.3	.3	.42	.73	85		9
	5	68	.5	.2					
	6	83	.5	.2	.47	.57	82	0-6	27
23. iv	7	80	.5	.5					
	8	74	18.3	.4	.57	.96	89		12
	9	64	19.0	.6					
	10	50	18.9	.7	.57	.77	86	0-2	5
	11 am	28	22.9	20.4	16.07	4.94	90	0-5	153
	12 n	23	23.3	21.9					
	1 pm	26	.7	22.0	.19	6.45	120		
	2	32	22.5	21.7					
	3	41	.1	22.2	.15	.07	113	0-5	145
	4	50	21.1	21.5					
5	57	20.6	.5	.14	.27	116			
6	63	.1	.5						
7	64	19.7	20.9	.64	5.25	97	0-6	95	
8	58	20.2	21.1						
9	51	19.5	.0	.73	.16	95			
10	43	18.7	.0						



Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
23. iv	11 pm	35	16.1	21.0	16.70	4.80	88	1-6	48
	12 m	29	.7	20.8					
24. iv	1 am	30	17.0	.8	.77	.90	90		
	2	35	.3	.2					
	3	44	.0	.4	.23	5.20	95	0-3	153
	4	53	.1	.3					
	5	63	.0	.4	.36	.16	94		
	6	68	16.5	.4					
	7	69	15.6	.6	.73	4.68	86	0-6	99
	8	52	16.1	.3					
	9	51	17.3	19.6	.57	3.99	72		
	10	43	18.5	20.1					
	11	35	20.6	.3	.60	4.71	86	0-3	38
30. iv	2 pm	36	20.7	20.6	17.31	7.23	133	1-3	11
	3	29	.9	21.0					
	4	28	.9	20.6	.22	6.85	126		
	5	33	.6	19.5					
	6	39	.0	20.6	.27	.85	126	0-2	11
	7	50	19.4	.5					
	8	60	18.3	.3	.11	.07	111		
	9	69	17.0	.2					
	10	73	16.1	.1	.23	5.50	100	1-39	28
	11	72	.1	.1					
	12 m	63	.3	.1	.20	.44	99		
1. v	1 am	45	14.6	19.4					
	2	34	15.0	.7	.25	.30	96	1-4	16
	3	31	14.6	.8					
	4	29	13.4	.1	.41	4.95	89		
	5	23	.3	.1					
	6	27	.9	.0	.30	.97	89	0-5	28
	7	34	.9	.1					
	8	42	14.2	.2	.19	5.16	93		
	9	51	15.8	.4					
	10	57	17.2	.5	.14	.41	98	0-6	34
	11	60	18.0	.5					
	12 n	55	20.3	.6	.14	.83	105		
	1 pm	50	23.4	.8					
	2	42	24.4	20.0	.16	6.32	115	0-0	16

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945 8. v	9 am	42	16.7	16.7	17.88	4.67	82	0-2	4
	10	32	17.2	.6					
	11	23	.5	.8	.84	6.25	110		
	12 n	22	18.1	.9					
	1 pm	29	.4	17.8	18.06	5.92	105	0-9	4
	2	39	.3	.9					
	3	50	.3	.9	.27	.50	98		
	4	60	.1	.4					
	5	69	17.0	.2	17.80	.37	94	0-8	6
	6	72	14.5	.2					
	7	66	16.1	.2	.96	.33	93		
	8	57	15.8	.1					
9. v	9	47	14.0	.0	18.01	.31	93	0-4	6
	10	38	12.5	16.8					
	11	31	11.1	.6	17.98	4.87	84		
	12 m	29	10.7	.6					
	1 am	32	9.8	.6	.99	.95	86	0-9	6
	2	42	.1	.6					
	3	52	10.0	.7	18.02	5.15	90		
	4	65	9.2	.7					
	5	75	.9	.8	17.87	4.97	86	2-7	16
	6	78	.8	.8					
	7	73	.2	15.8	.95	.82	83		
	8	66	11.0	.7					
9	56	12.6	.9	.96	.96	85	0-5	4	
21. v	9 am	31	12.8	14.3	16.58	5.48	89	0-5	28
	10	27	13.9	.1					
	11	24	16.5	.8	.70				
	12 n	29	12.2	15.2					
	1 pm	33	11.5	.4	.76	6.04	101	0-2	27
	2	42	.4	.4					
	3	50	12.8	.3	.64	.16	103		
	4	57	13.5	.4					
5	60	.9	.6	.80	.10	103	1-4	28	
6	59	12.6	.6						
7	54	11.9	.5	.88	.06	120			
8	48	14.6	.5						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
21. v	9 pm	37	13.7	15.4	16.84	5.48	92	0-1	19
	10	34	.9	.5					
	11	32	.3	.5	.83	.97	100		
	12 m	33	15.3	.5					
22. v	1 am	36	.0	.5	.67	6.16	103	0-2	16
	2	46	14.4	.4					
	3	54	.4	.5	.65	5.78	97		
	4	60	13.3	.5				0-6	31
	5	60	12.2	.5	.81				
	6	59	.6	.0					
	7	56	11.8	.5					
	8	47	.4	.0					
	9	35	12.5	.0	.97	4.83	81	0-5	11
28. v	10 am	57	15.0	16.0	17.49	5.22	89	0-5	9
	11	51	.0	.0					
	12 n	42	.3	15.5	.56	4.94	84		
	1 pm	33	.6	16.3					
	2	26	17.8	.5	.77	6.31	109	0-2	5
	3	24	18.3	.4					
	4	28	16.7	.4	.58	5.85	101		
	5	36	.1	.0					
	6	48	14.0	.1	.38	.65	96	0-2	19
	7	60	13.1	.1					
	8	70	12.8	15.6	.49	.53	94		
	9	76	11.7	16.3					
	10	75	12.0	.0	.63	.58	95	0-3	19
	11	68	.8	.1					
	12 m	57	13.3	.3	.98	.46	94		
29. v	1 am	45	.3	15.9					
	2	35	.7	.8	18.03	.00	86	0-5	19
	3	25	.3	.7					
	4	20	.7	.7	.05	4.76	81		
	5	24	.5	.3					
	6	30	.6	.4	17.68	5.46	92	0-3	15
	7	39	.3	.4					
	8	49	14.4	.5	.57	.35	91		
	9	56	15.0	.6					
	10	60	.9	.6	.58	.31	90	0-2	13

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
4. vi	10 am	24	15.2	15.3	17.89	5.16	87	0-5	7
	11	30	17.8	.8					
	12 n	39	18.3	.9	.89	.72	98		
	1 pm	48	19.4	16.1					
	2	59	.1	.2	.94	.64	97	0-3	9
	3	63	18.8	.3					
	4	63	19.4	.3	.94	.81	100		
	5	57	18.1	.4					
	6	48	14.4	.3	.94	.88	101	0-7	4
	7	42	12.8	.6					
	8	35	.5	.3	18.08	.70	98		
	9	32	.1	.2					
	10	34	11.2	.1	.05	.91	102	0-9	4
	11	37	.5	.0					
	12 m	45	9.4	15.8	17.99	.83	100		
5. vi	1 am	54	10.4	.7					
	2	63	12.1	.2	.86	.80	98	0-6	4
	3	68	10.0	.2					
	4	65	.0	.1	.99	.54	94		
	5	63	.0	.1					
	6	54	12.2	14.9	.98	.22	88	0-5	3
	7	43	.2	15.0					
	8	33	13.3	14.0	18.04	4.62	77		
	9	24	11.7	.7					
	10	18	.1	15.0	.04	5.54	94	0-3	3
19. vi	9 am	26	9.7	12.6	8.59	5.66	82	6-3	460
	10	25	11.7	13.9					
	11	29	13.3	14.1	.54	.43	81		
	12 n	34	14.6	.3					
	1 pm	43	16.7	15.3	9.40	4.65	72	6-4	460
	2	51	19.4	.9					
	3	57	.4	16.2	11.85	.52	70		
	4	60	17.2	.1					
	5	60	19.4	.0	10.96	.90	78	9-2	420
	6	55	16.1	15.9					
	7	48	15.6	.7	8.87	5.87	90		
	8	39	17.2	16.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
19.vi	9 pm	35	17.2	15.6	9.25	5.63	87	5-0	330
	10	35	.2	.5					
	11	36	.2	.5	.36	.28	82		
	12 m	39	.2	.0					
20.vi	1 am	43	14.3	.6	10.51	4.79	75	10-2	460
	2	51	13.9	.9					
	3	56	12.5	.8	.30	.85	76		
	4	59	.8	.1					
	5	58	13.1	.6	11.03	.76	75	7-6	330
	6	54	14.3	.6					
	7	46	.4	.4	10.53	.48	71		
	8	37	.2	.1					
	9	31	.2	.0	9.67	5.06	78	10-22	330
25.vi	10 am	54	12.8	12.2	15.51	5.46	85	5-6	165
	11	46	13.1	14.1					
	12 n	38	.1	.1	.73	.47	88		
	1 pm	32	.3	.1					
	2	30	.3	.0	.70	.60	90	6-7	165
	3	36	.6	.1					
	4	48	.6	13.9	.56	.17	83		
	5	59	.6	.9					
	6	69	11.3	.9	.67	.50	88	2-4	178
	7	81	9.0	14.0					
	8	85	8.9	15.2	17.47	.35	90		
	9	84	11.7	14.9					
	10	75	.3	15.3	.58	.04	85	6-10	137
	11	63	10.0	13.9					
	12 m	51	9.1	.9	16.54	.32	87		
26.vi	1 am	39	.1	.9					
	2	29	.1	.9	.19	.40	87	6-8	153
	3	25	8.9	.1					
	4	29	.7	12.9	15.63	.40	85		
	5	36	.2	.4					
	6	46	.2	.5	.58	.56	87	6-5	148
	7	55	6.7	.6					
	8	62	8.3	.7	16.13	6.44	102		
	9	64	10.0	14.6					
	10	60	9.8	.3	.42	5.06	83	7-4	153

Location: SHELL POINT

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
2. vii	8 am	20		12.4	17.43	5.58	91	0-2	48
	9	24	12.2	.6					
	10	32	14.8	.9	.10	6.40	103		
	11	42	16.0	13.0					
	12 n	53	.0	.0	.09	.42	103	0-5	72
	1 pm	60	.7	.1					
	2	63	.7	.4	.13	.96	113		
	3	60	.4	.4					
	4	54	.4	.4	.14	7.79	126	0-2	28
	5	45	.4	.8					
	6	36	13.7	14.4	.10	6.93	115		
	7	32	12.1	.1					
	8	30	11.1	.0	.08	7.12	117	0-3	56
	9	35	.0	13.8					
	10	42	10.6	.5	.03	6.46	105		
	11	48	11.4	.3					
	12 m	61	.1	.6	.03	.08	99	0-1	66
3. vii	1 am	67	10.6	.5					
	2	69	13.3	.6	.67	5.87	100		
	3	69	12.0	.5					
	4	61	.2	.3	.57	.74	93	0-2	82
	5	48	.5	.0					
	6	39	11.7	.0	.19	.97	96		
	7	28	10.6	12.5					
	8	22	11.7	.4	.25	.55	89	0-1	35
9. vii	9 am	60	14.6	11.7	17.84	6.04	96	0-5	90
	10	54	.6	.7					
	11	42	.6	12.9	.97	.20	101		
	12 n	33	15.6						
	1 pm	24	.6		18.06	.40	109	2-5	37
	2	21	.6	.6					
	3	27	.9	.6	.06	.65	108		
	4	36	.4	.3					
	5	49	.4	.3	17.95	.60	106	0-4	28
	6	63	.4	.3					
	7	81	12.2	.4	.86	.21	100		
	8	86	.8	.5					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
9. vii	9 pm	86	12.6	12.6	18.11	6.21	100	1	48
	10	77	.0	.6					
	11	63	10.9	.6	.06	.17	100		
10. vii	12 m	49	11.1	.6					
	1 am	36	.7	.5	.41	5.75	93	2-3	31
	2	23	.7	.4	.33	.50	89		
	3	15	.7	.4	.33	.50	89		
	4	16	.7	.3	.30	.26	84	2-4	21
	5	25	.7	.0	.30	.26	84	2-4	21
	6	36	.7	11.9	.13	.85	93		
	7	50	12.1	.6	.13	.85	93		
	8	57	11.8	.9					
9	62	15.6	12.6	17.79	.85	94	2-4	46	
17. vii	9 am	27	12.8	12.3	17.97	5.58	90	0-3	15
	10	36	13.9	.3					
	11	42	.9	.3	.54	.77	92		
	12 n	49	16.7	.6					
	1 pm	58	15.9	.6	.59	.92	95	0-2	18
	2	62	.6	.8					
	3	60	.6	13.1	.47	6.60	107		
	4	56	16.7	.1					
	5	51	15.6	12.6	.54	.39	103	0-1	15
	6	43	12.8	.6					
	7	39	11.7	.9	.75	.55	106		
	8	34	10.6	13.1					
9	35	.0	.0	.51	.42	104	0-3	13	
10	39	.0	12.7						
11	45	9.4	.6	.44	.30	101			
12 m	48	.2	.6						
18. vii	1 am	54	8.9	.5	.46	.23	100	0-2	23
	2	58	.9	.4					
	3	59	9.00	.4	.59	5.41	87		
	4	54	.4	.4					
	5	49	7.8	.3	.59	.74	92	0-0	23
	6	41	.8	.2					
	7	33	8.0	.2	.66	.67	90		
	8	27	9.4	11.6					
	9	26	10.6	.8	.64	.32	84	0-0	13

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
23. vii	9 am	49	12.2	11.2	17.49	5.90	92	0	28
	10	41	.2	.2					
	11	32	13.3	.4	.63	.99	94		
	12 n	26	.7	.6					
	1 pm	24	.1	.6	.66	6.20	97	0	21
	2	28	.9	.6					
	3	37	.9	.6	.67	.19	97		
	4	48	.3	.7					
	5	62	12.8	.7	.45	.20	98	0	23
	6	69	.6	.7					
	7	77	11.9	.8	.82	5.99	95		
	8	75	.5	.9					
	9	69	.3	.9	.74	6.34	101	0	11
	10	57	.5	.9					
	11	44	.7	.9	.97	5.92	94		
	12 m	33	.1	.5					
24. vii	1 am	24	10.4	.4	.93	.79	92	0	11
	2	20	9.1	.4					
	3	21	8.3	.0	.65	.81	90		
	4	30	7.1	10.9					
	5	36	6.9	.9	.36	6.04	93	0	23
	6	47	7.2	.8					
	7	56	.2	.9	.51	5.75	89		
	8	59	.2	11.1					
	9	54	9.4	.0	.52	.94	92	0	19
31. vii	9 am	28	9.78	12.3	17.82	6.10	98	0-5	6
	10	40	10.6	11.6					
	11	49	11.1	.5	.86	.19	98		
	12 n	58	.7	12.2					
	1 pm	66	12.8	13.0	.92	.11	100	0-6	3
	2	66	15.6	.0					
	3	63	.9	12.8	.88	.38	103		
	4	54	16.8	.8					
	5	47	17.0	.5	.88	.52	105	0-3	3
	6	39	.6	.8					
	7	40	.3	13.0	.91	.25	102		
	8	30	16.8	.2					



Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
31. vii	9 pm	36	17.0	13.2	18.07	6.52	107	0-5	3
	10	42	15.9	.1					
	11	51	14.7	12.9	17.81	.00	97		
1. viii	12 m	58	13.3	13.0					
	1 am	65	12.2	.0	.77	.00	97	0-6	6
	2	67	11.5	12.9					
	3	65	.1	.8	.87	5.93	114		
	4	59	10.3	.8					
	5	44	.0	.5	.87	.70	92	0-6	6
	6	38	.6	.5					
	7	30	.1	.3	.78	.59	89		
	8	23	.6	.0					
9	23	11.1	.1	.08	.59	89	0-5	3	
6. viii	9 am	48	13.1	12.5	17.95	5.63	91	2-7	15
	10	39	18.9	.5					
	11	30	16.7	.5	.99	.85	94		
	12 n	23	.7	.6					
	1 pm	19	.7	.6	18.04	6.70	108	5-4	15
	2	25	.7	13.7					
	3	33	.1	.7	.10	.49	107		
	4	45	15.6	.5					
	5	58	.6	.5	17.92	.02	99	3-6	7
	6	69	13.9	.4					
	7	77	.0	.5	18.07	5.99	98		
7. viii	8	76	12.8	.7					
	9	66	.8	.7	.11	6.25	103	5-6	0
	10	54	.8	.7					
	11	43	.8	.7	.23	5.66	94		
	12 m	29	11.7	.6					
	1 am	24	.7	.6	.18	.88	97	3-8	7
	2	12	12.2	.4					
	3	18	11.7	.3	.15	.86	96		
	4	25	.9	.1					
5	35	.7	.1	.09	.73	93	4-6	7	
6	45	.7	.1						
7	56	.7	.1	17.99	.61	92			
8	57	.9	.1						
9	54	12.8	.1		.70		5-5	0	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
17. viii	12 n	26	18.9	14.8	18.16	5.83	98	0-9	0
	1 pm	40	19.4	.6					
	2	45	20.0	.6	.21	.79	97	15	19
	3	48	21.1	.7					
	4	47	.7	.7	.19	.90	99	13-0	15
	5	43	.1	.5					
	6	37	17.2	.5	.21	4.20	70	18	19
	7	29	15.6	.5					
	8	23	.6	.5	.25	5.95	100	17-13	15
	9	18	.0	.5					
	10	17	13.6	.5	.40	.69	96	16	19
	11	20	11.7	.5					
18. viii	12 n	23	12.2	.5	.33	.85	98	8-6	19
	1 am	26	.2	.5					
	2	29	11.1	.0	.35	.91	99	13	19
	3	31	.4	13.8					
	4	37	16.7	.8	.28	.68	94	20-0	15
	5	35	11.7	.5					
	6	30	10.6	.5	.33	.51	91	16	19
	7	25	.3	.0					
	8	18	.6	.2	.27	.69	93	20-0	19
	9	15	12.8	.5					
	10	17	14.4	.5	.29	.69	94	15	13
	11	17	16.7	.5					
12 n	26	17.8	.5	.30			16-23	19	
27. viii	9 am	53	13.9	13.4	18.50	5.48	92	0-8	23
	10	63	.9	14.5					
	11	72	15.6	.5	.62	4.92	81		
	12 n	69	16.1	.7					
	1 pm	59	17.1	.3	.52	6.10	102	1-5	19
	2	50	.8	.2					
	3	37	.8	.4	.57	.15	103		
	4	26	16.6	.0					
	5	19	.6	.5	.58	.38	108	0-9	19
	6	19	.6	.4					
	7	30	14.4	.3	.59	5.96	100		
	8	39	.4	.4					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
27. viii	9 pm	54	9.4	14.5	18.56	5.90	.99	0-6	19
	10	63	12.1	.5					
	11	72	11.7	.7	.61	.43	92		
	12 m	71	12.2	.8					
28. viii	1 am	63	10.6	.4	.68	.41	91	1-5	19
	2	51	.0	13.3					
	3	39	9.4	.6	.71	.30	88		
	4	29	7.2	.4					
	5	19	.8	.4	.75	4.91	81	0-6	19
	6	15	.2	.0					
	7	21	8.3	.1	.70	5.18	85		
	8	27	12.8	.5					
	9	39	15.0	.5	.62	.33	88	0-2	19
3. ix	9 am	47	11.3	12.9	18.67	4.89	80	2-4	0
	10	36	15.3	13.2					
	11	30	18.0	.5	.69	5.52	91		
	12 n	30	16.7	.0					
	1 pm	36	20.0	.1	.65	.80	95	2-0	15
	2	42	21.3	14.1					
	3	53	.7	.3	.75	.66	95		
	4	66	.7	.3					
	5	75	20.6	.0	.59	.77	97	3-1	15
	6	76	18.3	13.8					
	7	79	17.5	.8	.60	.80	97		
	8	69	18.9	.9					
	9	54	17.2	.9	.69	.82	97	2-1	15
	10	47	16.4	.9					
	11	36	15.8	14.0	.68	.82	97		
	12 m	26	14.7	.0					
4. ix	1 am	24	13.2	.1	.77	.57	93	0-5	15
	2	25	11.7	13.6					
	3	33	10.0	.3	.69	.75	95		
	4	43	.9	.3					
	5	54	9.4	.7	.57	.66	94	2-3	8
	6	62	10.9	.6					
	7	66	11.0	.5	.67	.55	92		
	8	63	15.8	.5					
	9	56	16.8	.2	.70	.55	91	2-4	8

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1945	9. ix	9 am	55	15.0	14.2	18.80	5.65	95	0-5	7
		10	61	16.7	.2					
		11	64	18.0	.4	.85	.83	98		
		12 n	60	.0	.0					
		1 pm	51	.0	16.3	.94	.18	108	0-8	5
		2	39	.3	.7					
		3	30	.3	.9	.95	6.18	109		
		4	19	.3	.8					
		5	24	.2	.8	19.03	5.63	99	0-7	8
	6	27	17.2	17.1						
	7	36	.2	.1	.05	.28	94			
	8	45	.2	.0						
	9	57	16.9	16.7	18.95	.76	101	0-6	6	
	10	63	.9	15.8						
	11	63	.1	.5	.90	.96	102			
	12 m	60	15.6	16.0						
	10. ix	1 am	54	.0	.4	.98	.29	92	0-7	6
		2	42	.1	.5					
3		33	12.2	.4	19.03	.13	90			
4		24	.2	.5						
5		19	11.9	.0	18.95	.82	101	0-9	7	
6		24	12.1	15.5						
7		31	.1	.5	.97	.32	92			
8		40	.2	.4						
9		51	14.3	.5	.90	.64	97	0-2	7	
17. ix	9 am	36	14.0	16.0	19.03	5.33	94	0-5	3	
	10	34	16.7	.5						
	11	36	.7	.7	.03	.30	93			
	12 n	41	.2	17.0						
	1 pm	48	15.6	.2	.05	.49	97	0-5	0	
	2	56	.6	.3						
	3	63	.3	.3	.03	.50	98			
	4	69	.4	.3						
	5	72	.0	.3	.03	.58	99	0-11	0	
6	68	14.7	.2							
7	61	.4	.2	.08	.69	101				
8	49	13.9	.6							

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl °/oo	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
17. ix	9 pm	38	12.1	17.1	19.07	5.62	99	0-9	0
	10	34	10.6	16.9					
	11	27	11.7	.5	.04	.29	93		
	12 m	27	.7	.2					
18. ix	1 am	30	.1	.5	.07	.24	93	0-6	17
	2	36	10.0	.5					
	3	45	.0	.5	.04	.37	94		
	4	59	.2	.4					
	5	56	.9	.4	.08	.06	88	0-6	0
	6	56	11.7	.2					
	7	51	13.3	.2	.08	.35	93		
	8	47	14.4	.2					
	9	39	15.0	.3	.08	.39	94	0-5	0
24. ix	9 am	75	15.0	14.3	19.29	4.98	84	5	0
	10	83	.0	.7					
	11	75	.5	.7	.29	5.31	91		
	12 n	69	.5	.6					
	1 pm	55	14.7	.0	.34	.67	95	6	0
	2	43	15.6	15.2					
	3	30	14.4	.2	.39	.71	98		
	4	21	.5	.3					
	5	20	.4	.2	.52	.57	96	5	0
	6	28	13.9	.3					
	7	40	12.2	.4	.20	.31	92		
	8	54	11.7	.3					
	9	68	.3	.1	.17	.31	91	6-3	0
	10	78	12.1	.0					
	11	78	.2	14.8	.34	.53	94		
	12 m	72	11.7	.8					
25. ix	1 am	60	.4	.7	.30	.31	90	6-1	0
	2	46	.4	.5					
	3	36	8.3	.4	.38	.29	90		
	4	27	.3	.5					
	5	27	10.0	.3	.32	.07	86	5-1	0
	6	33	.0	.0					
	7	39	11.7	.5	.27	4.91	83		
	8	51	15.5	.4					
	9	66	14.4	15.0	.21	5.25	90	7-0	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
1. x	11 pm	30	9.4	15.4	19.30	4.87	84	0-5	0
	12 m	26	10.0	.5					
2. x	1 am	29	.6	.4	.28	5.01	86		
	2	36	.6	.4					
	3	45	9.2	.3	.31	.07	87	2-1	3
	4	53	8.9	.3					
	5	60	.3	.2	.20	.20	89		
	6	66	.1	.1					
	7	60	10.8	.1	.28	.09	87	1-2	5
	8	55	15.6	.0					
	9	46	13.3	.1	.25	.14	88		
	10	37	.9	.4					
	11	32	.9	.7	.25	.38	93	0-4	3
	12 n	30	14.4	16.0					
	1 pm	34	.5	.1		.45			
	2	40	.5	.1					
	3	51	.3	.0	.26	.34	93	1-4	0
	4	61	.3	.3					
	5	69	13.9	.1	.30	.40	94		
	6	73	.4	.1					
	7	71	12.2	.1		.51		0-11	0
	8	65	10.6	.0					
	9	54	9.4	.0	.33	.37	94		
	10	44	.2	.0					
	11	33	8.3	15.7	.33	4.91	85	0-0	3
22. x	8 am	72	17.2	19.4	19.37	4.77	88	8-5	7
	9	76	20.3	.4					
	10	68	21.1	.8	.69	3.00	93		
	11	54	20.9	.8					
	12 n	43	21.0	20.6	.75	5.13	97	8-5	7
	1 pm	26	20.5	.6					
	2	13	.0	21.6	.89	4.62	89		
	3	5	.0	22.0					
	4	6	.0	.4	.96	.19	83	5-8	4
	5	16	19.5	.6					
	6	27	18.9	21.6	20.01	.86	94		
	7	40	.9	.5					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
22. x	8 pm	52	18.9	21.0	19.62	5.16	98	6-8	0
	9	66	.9	20.1					
	10	66	17.8	.0	.66	.20	97		
	11	57	.8	.0					
23. x	12 m	48	.5	.5	.71	4.75	90	6-10	0
	1 am	30	15.8	.2					
	2	18	16.7	19.5	.70	.86	90		
	3	10	14.7	18.9					
	4	12	12.8	.8	.70	.71	87	6-7	5
	5	21	.3	19.0					
	6	33	13.9	.4	.68	.65	86		
	7	45	16.1	.3					
8	63	18.6	.7	.60	.83	90	8-5	0	
28. x	8 am	35	17.7	18.5	19.70	4.86	89	9-3	20
	9	34	18.3	19.0					
	10	33	17.8	.4	.66	.94	92		
	11	39	.8	.6					
	12 n	46	.2	.7	.75	5.02	94	11-3	15
	1 pm	54	.2	.5					
	2	62	16.7	.5	.79	.01	93		
	3	67	.9	.6					
	4	68	17.8	.9	.95	.56	104	9-4	11
	5	65	16.7	.8					
	6	55	15.9	.2	.90	.49	102		
	7	48	.9	.2					
29. x	8	39	14.4	.1	.91	.40	100	6-6	15
	9	30	13.3	.0					
	10	24	12.8	18.9	.89	4.97	110		
	11	24	.8	.7					
	12 m	29	.8	.7	.84	.94	91	7-10	18
	2 am	45	.6	.7	.81	.99	92		
	3	51	.6	.7					
	4	58	.6	.7	.78	.91	90	7-9	18
	5	60	.2	.7					
	6	56	13.2	.4	.81	.80	88		
	7	50	.9	.3					
	8	43	15.6	.5	.79			7-7	18

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
12. xi	8 am	34	17.2	20.5	20.00	4.87	92	0-7	12
	9	41	.8	.5					
	10	48	18.3	.5	19.94				
	11	55	.3	.5					
	12 n	61	.3	.5	.89	.87	92	0-10	12
	1 pm	65	.1	.7					
	2	63	17.8	.7	20.09	5.54	105		
	3	58	.9	.7					
	4	51	.8	.7	.21	.66	108	0-5	15
	5	44	.8	21.0					
	6	36	.2	20.7	.22	4.16	79		
	7	27	.2	.7					
	8	24	16.0	.0	.15	5.33	100	0-6	15
	9	27	.1	19.3					
	10	30	.1	.0	.16	.17	97		
	11	36	.4	.3					
	12 m	43	.4	20.0	.23	4.74	82	0-3	15
13. xi	1 am	48	15.9	.1					
	2	53	.0	.1	.04	.65	86		
	3	54	14.3	.0					
	4	45	15.0	19.7	19.99	.73	88	1-5	15
	5	42	.3	.7					
	6	39	14.7	.7	.98	.71	88		
	7	36	15.6	.5					
	8	34	.3	.45	20.06	.53	84	1-4	15
26. xi	8 am	30	22.8	21.6	19.96	4.50	85	1-6	
	9	34	23.9	23.2					
	10	40	.9	.5	.88	.90	99		
	11	48	24.4	.6					
	12 n	58	.4	.7	.92	5.15	101	2-2	
	1 pm	63	25.6	24.0					
	2	66	22.8	.0	.92	.75	116		
	3	63	23.3	.6					
	4	54	.3	.6	.93	4.20	85	2-4	
	5	48	.3	.6					
	6	41	22.2	.6	20.10	.50	92		
	7	30	21.7	25.0					



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1945									
26. xi	8 pm	24	21.7	24.4	20.12	3.65	78	0-7	
	9	24	.7						
	10	30	.1	23.6	.12	5.60	112		
	11	33	20.6	.2					
	12 m	42	.0	22.9	.12	4.32	85	0-5	
27. xi	1 am	51	.0	.5					
	2	52	19.4	.4	.02	.50	88		
	4	51	18.9	.6	19.96	3.75	74	1-11	
	5	47	.9	.6	20.07	4.30	84		
	6	39	20.0	.0					
	7	36	.0	.3					
	8	33	.0	.5	.02	.50	88	0-6	
10. xii	8 am	40	19.4	22.5	19.80			6-4	24
	9	53	.4	.6					
	10	61	.4	.5	.83				
	11	65	.4	.5					
	12 n	68	.4	23.2	.80			7-13	20
	1 pm	64	.4	24.0					
	2	55	.4	.0	20.00				
	3	46	18.9	23.8					
	4	36	.9	.5	.19			6-2	15
	5	26	.4	.5					
	6	20	.3	.1	.12				
	7	18	.3	22.7					
	8	21	.3	.5	.18			5-4	8
	9	33	.2	.5					
	10	39	.2	.4	19.91				
	11	49	.1	.5					
	12 m	60	17.9	.7	.88			6-6	8
11. xii	1 am	61	.8	.6					
	2	48	.8	.7	.80				
	3	42	20.0	.3					
	4	36	.1	.0	.85			6-4	8
	5	33	18.9	21.7					
	6	30	.4	.7	.87				
	7	30	.8	.5					
	8	36	19.1	.9	.82			9-6	8

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
2.1	8 am	76	23.9	22.5	19.90	4.51	89	5-23	0
	9	72	22.5	.6					
	10	63	21.7	.7	20.04	.57	90		
	11	51	.1	23.4					
	12 n	39	.1	24.0	.25	.77	96	5	0
	1 pm	27	.3	.0					
	2	23	.1	.3	.43	5.30	108		
	3	24	.2	.7					
	4	30	.1	25.0	.30	.28	109	4-14	0
	5	39	.1	24.7					
	6	46	.0	.5	.04	4.86	99		
	7	57	.1	23.9					
	8	60	.4	24.1	.01	.67	94	6-4	0
	9	55	.1	.8					
	10	46	.0	.8	19.93	.39	89		
	11	39	.0	23.9					
	12 m	33	20.9	.5	10.10	.33	87	3-11	0
3.1	1 am	26	19.7	.4					
	2	18	.7	.3	.00	.40	87		
	3	30	.5	.2					
	4	42	.9	.5	19.95	.37	87		
	5	53	20.4	.4					
	6	65	.9	.3	.93	.33	86	7-17	0
	7	72	.9	.5					
	8	78	21.1	24.2	.88	.44	90	8-13	0
14.1	9 am	46	24.4	25.4	19.19	4.17	85	4-14	0
	10	36	.4	.9					
	11	27	.5	.9	20.21	.62	96		
	12 n	21	.5	26.3					
	1 pm	26	.9	.6	.39	.88	103	5-24	0
	2	32	26.1	.7					
	3	41	.1	27.0	.30	.83	103		
	4	52	.2	.3					
	5	61	25.1	.5	.24	.68	100	8-11	0
	6	60	.0	.3					
	7	60	24.4	.3	.22	.53	97		
	8	51	23.9	26.9					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
14. i	9 pm	42	23.3	26.6	20.13	4.62	97	8-9	0
	10	33	.3	.2					
	11	12	22.8	25.5	.17	.19	86		
	12 m	20	.5	.5					
15. i	1 am	27	.1	.5	.13	.25	88	5-13	0
	2	37	.4	.5					
	3	51	.4	.5	.17	.25	88		
	4	62	23.3	.5					
	5	73	.9	.5	.24	.21	87	6-15	0
	6	79	24.4	.7					
	7	76	21.7	.3	.12	3.97	82		
	8	69	22.2	.4					
	9	56	.6	.6	.25	.98	83	11-13	0
30. i	8 am	67	23.3	18.0	20.22	4.37	80	12-4	22
	9	57	.7	17.6					
	10		.9	.7	.20	.63	84		
	11	36	.9	18.3					
	12 n	32	.3	19.4	.21	.79	90	10-2	10
	1 pm	27	.3	.4					
	2	28	.5	.8	.36	5.10	96		
	3	33	.3	20.9					
	4	42	.9	22.0	.52	4.94	97	10-1	10
	5	54	.4	23.0					
	6	55	24.1	24.5	.33	.88	99		
	7	57	23.9	25.5					
	8	54	.9	.0	.30	.75	98	9-0	18
	9	50	.9	.4					
	10	42	.3	.5	.34	.48	93		
	11	36	22.2	.5					
	12 m	30	.0	.7	.40	.35	90	9-1	0
31. i	1 am	30	21.9	.6					
	2	34	22.1	.6	.26	.43	91		
	3	43	21.3	.6					
	4	53	.2	.6	.29	.37	91	9-2	10
	5	64	.1	.5					
	6	73	22.1	.4	.20	.33	89		
	7	76	.1	.6					
	8	75	.9	24.5	.20	.33	88	11-0	10

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
11.11	11 am	26	25.0	24.6	20.26	4.34	89	0-23	12
	12 n	30	26.0	25.3					
	1 pm	36	.0	.5	.21	.73	97		
	2	43	25.6	.8					
	3	51	.6	.2	.14	.31	89	0-12	10
	4	55	.0	.6					
	5	54	24.9	.6	.07	.84	100		
	6	51	21.3	24.8					
	7	43	20.6	26.2	.34	.70	98	0-20	10
	8	30	.0	.1					
	9	30	19.9	.5	.33	.49	95		
10	27	.4	.5						
11	27	.1	.5	.45	.37	92	0-12	10	
12.11	12 m	33	18.9	24.0					
	1 am	42	.8	23.0	19.95	.56	90		
	2	51	.9	.2					
	3	61	.5	24.0	.89	.53	91	2-18	18
	4	70	.9	.1					
	5	78	.2	.0	.87	.36	88		
	6	75	.1	.1					
	7	70	.3	.0	.87	.31	87	0-20	10
	8	60	.1	23.9					
	9	51	.2	.4	.89	.36	87		
	10	38	17.8	.2					
11	28	19.2	22.5	.89	.49	88	0-5	10	
25.11	11 am	34	25.1	23.6	19.90	5.45	109	2-0	
	12 n	40	24.3	25.0					
	1 pm	44	.5	.4	.93	.70	117		
	2	46	.4	.5					
	3	48	.4	.6	.91	4.45	92	4-4	
	4	45	.4	26.0					
	5	42	.4	.0	.94	5.70	119		
	6	40	.1	.0					
	7	38	23.9	.1	.95	6.05	127	2-11	
	8	33	.7	.1					
9	33	.9	.3	.99	5.10	107			
10	33	.9	.2						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
25. ii	11 pm	39	23.9	25.7	20.05	4.70	97	1-11	
	12 m	45	.3	26.0					
26. ii	1 am	48	.0	.0	.07	5.25	109		
	2	54	.0	25.0					
	3	64	22.9	.0	19.93	4.00	82	2-42	
	4	66	21.3	.0					
	5	57	.2	.0	.94	.75	98		
	6	53	20.0	.0					
	7	48	23.1	.0	.91	.10	84	2-16	
	8	42	24.0	.0					
	9	38	23.9	.0	.97	.60	94		
	10	32	27.3	.5					
	11	31	29.3	26.8	.93	.70	99	2-11	
11. iii	8 am	31	13.3	20.2	20.02	4.26	80	2-7	10
	9	26	.4	.2					
	10	24	15.6	21.0	19.96	.35	84		
	11	30	16.1	.7					
	12 n	36	17.2	22.3	20.01	.60	90	2-3	8
	1 pm	44	18.3	21.3					
	2	50	.5	.4	.10	.50	87		
	3	54	.3	.6					
	4	52	.3	.6	.14	.58	89	1-1	8
	5	50	.2	.0					
	6	47	17.9	20.9	.09	.60	88		
	7	39	.9	.9					
	8	36	16.7	21.0	.11	.50	86	3-0	8
	9	32	.1	.0					
	10	36	.1	20.6	.09	.44	85		
	11	42	15.2	.7					
	12 m	51	.1	.3	.04	.15	79	3-12	5
12. iii	1 am	57	.6	.2					
	2	68	.8	22.5	.06	.22	83		
	3	74	.6	19.1					
	4	81	.3	.5	.10	3.84	72	3-3	13
	5	72	.0	20.0					
	6	63	.3	.1	.10	.80	72		
	7	54	.0	18.5					
	8	44	.6		.08	.52		2-2	10

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
25.iii	9 am	39	18.6	21.8	19.57	4.44	86	2-4	15
	10	42	.6	.4					
	11	49	15.7	.6	.41	.15	80		
	12 n	54	16.0	23.0					
	1 pm	57	.3	.0	.31	.50	89	2-9	15
	2	58	.7	21.8					
	3	54	18.9	.6	.65	.53	87		
	4	51	.9	.6	.59	.42	85	6-11	16
	5	47	.9	.6					
	6	43	.8	.6					
	7	40	20.0	22.7	.61	.30	84		
	8	42	19.4	.9					
	9	46	.4	.5	.36	.35	85	4-22	20
	10	51	.7	.6					
	11	57	18.9	.2	.51	.35	84		
	12 m	62	17.8	.5					
26.iii	1 am	67	.2	.8	.46	.10	80	3-17	20
	2	65	.3	.8					
	3	66	.0	21.7	.46	.08	80		
	4	61	16.7	.0					
	5	56	.8	.0	.49	3.92	74	5-17	15
	6	50	.7	.0					
	7	43	.6	22.0	.58	.70	72		
	8	39	.2	20.4					
	9	37	.7	.0	.53	6.66	125	5-17	22
8.iv	1 pm	57	20.3	15.9	19.69	5.05	88	0-6	12
	2	60	21.2	16.0					
	3	70	.2	.4	.66	.30	93		
	4	51	.7	17.5					
	5	46	20.4	18.6	.68	.65	104	0-6	18
	6	42	18.7	.6					
	7	36	.3	.6	.73	.75	106		
	8	36	17.1	19.0					
	9	38	.0	.1	.64	.38	100	0-8	20
	10	45	16.5	.0					
	11	54	15.6	.0	.66	.01	93		
	12 m	63	.3	.0					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
9. iv	1 am	72	14.7	19.0	19.66	4.22	78	0-11	31
	2	77	.4	18.7					
	3	75	13.9	.6	.67	5.04	92		
	4	71	12.8	17.7					
	5	60	.8	.4	.67	.01	90	0-2	14
	6	51	10.9	.0					
	7	42	11.0	.3	.73	4.87	87		
	8	34	12.5	.4					
	9	29	14.0	16.5	.70	.89	86	0-9	14
	10	27	16.2	17.0					
	11	32	.1	.3	.74	5.19	93		
	12 n	39	.1	.4					
	1 pm	48	.3	.4	.72	.20	93	0-7	12
7. v	8 am	22		17.1	18.19	4.35	76	0-10	
	9	25		.1					
	10	31		16.8	17.90	5.30	92		
	11	39		17.4					
	12 n	47		.7	18.08	.58	101	0-6	
	1 pm	56		.7					
	2	58		.8	.15	.65	100		
	3	55		.9					
	4	50		.7	.09	6.95	123	0-6	
	5	45		18.0					
	6	37		17.9	.18	.20	110		
	7	36		.9					
	8	37		.5	.15	.08	107	0-6	
	9	43		.4					
	10	50		.2	.18	5.80	102		
	11	59		.3					
	12 m	68		.3	.14	.60	99	0-9	
8. v	1 am	75		.7					
	2	77		.7	.42	.34	95		
	3	74		.7					
	4	66		.5	.24	.30	94	0-9	
	5	56		.2					
	6	45		16.3	.37	.04	87		
	7	34		15.9					
	8	26		16.3	.26	.07	88	0-6	

Location: SHELL POINT

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
13. v	9 am	54	14.7	18.0	18.33	4.90	87	2-5	1
	10	42	15.6	17.7					
	11	35	16.1	.7	.42	.85	86		
	12 n	27	17.2	.8					
	1 pm	26	19.0	18.2	.55	5.34	96	2-5	1
	2	29	.1	.4					
	3	38	18.9	.5	.68	.34	97		
	4	48	17.8	.2					
	5	61	16.7	.0	.51	.47	98	0-9	0
	6	69	15.1	17.9					
	7	74	13.3	18.0	.43	.24	94		
	8	72	12.0	.0					
	9	66	.0	17.9	.54	.32	95	1-7	0
	10	56	.0	.9					
	12 m	36	11.1	.8	.68	4.77	85		
14. v	1 am	32	.1	.3	.66	.75	84	0-7	0
	2	32	.0	.2					
	3	39	.0	.2	.72	5.08	90		
	4	48	10.9	.0					
	5	58	.0	16.6	.56	.10	89	2-6	0
	6	66	.0	.8					
	7	70	.0	17.1	.48	.17	91		
	8	69	11.7	16.4					
	9	64	12.1	.0	.51	.11	88	0-9	0
27. v	8 am	50	14.2	14.4	18.02	5.35	96	2-0	0
	9	39	18.1	.6					
	10	29	22.2	.8	.15	.20	95		
	11	24	21.4	15.4					
	12 n	24	.1	.6	.12	.53	94	2-1	0
	1 pm	32	19.4	.8					
	2	41	18.6	16.1	.20	.80	105		
	3	52	.6	.1					
	4	64	17.3	.0	.16	.78	99	2-0	0
	5	64	.2	.0					
	6	73	.3	15.8	.17	.60	96		
	7	68	14.7	16.0					
	8	60	.4	15.8	.15	.70	98	1-1	0



Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
27.v	9 pm	48	15.0	16.0					
	10	36	14.7	15.8	18.22	5.50	95		
	11	25	.8	.8					
	12 m	21	.8	.7	.23	.10	87	1-0	0
28.v	1 am	26	.7	.6					
	2	42	12.5	.6	.39	.50	94		
	3	51	.2	.5					
	4	62	13.3	.5	.16	.55	95	1-0	0
	5	70	.1	.5					
	6	72	12.8	.5	.25	.35	91		
	7	68	.0	.6					
	8	58	.5	.1	.18	4.93	84	1-1	0
11.vi	9 am	48	15.0	11.7	16.58	6.50	102	0-4	8
	10	42	.3	.8					
	11	35	.6	12.2	.59	7.14	113		
	12 n	30	.9	.3					
	1 pm	34	16.7	.7	.66	.14	114	1-3	5
	2	42	17.0	13.0					
	3	48	.0	12.9	.69	.20	115		
	4	60	16.7	.9					
	5	68	15.0	.8	.54	.50	120	1-3	8
	6	74	13.1	13.2					
	7	72	12.8	.0	.84	.50	121		
	8	67	11.4	12.8					
	9	60	12.0	.6	.60	.14	114	0-5	4
	10	48	14.2	.3					
	11	40	11.7	.2	.89	.14	113		
	12 m	34	.1	.1					
12.vi	1 am	30	.4	.1	.89	6.85	108	0-8	4
	2	31	10.9	.2					
	3	39	.0	11.9	.74	.60	103		
	4	48	9.7	.9					
	5	55	10.3	.7	.69	7.10	110	0-0	4
	6	61	.0	.8					
	7	62	9.7	12.3	.64	6.95	110		
	8	60	11.1	.7					
	9	52	10.6	11.3	.69	7.04	109	0-2	4

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
24. vi	12 n	37	14.4	12.7	17.52	5.87	94	0-4	1
	1 pm	37	.2	.7					
	2	60	13.3	.7	.47	.94	96		
	3	65	14.2	.7					
	4	73	.2	.7	.54	.93	96	0-10	3
	5	69	12.5	.7					
	6	66	.5	.7	.53	6.00	96		
	7	55	10.3	.5					
	8	45	.0	.5	.55	5.79	93	0-5	8
	9	38	9.4	.4					
	10	33	8.9	.4	.61	4.52	74		
	11	33	.3	.4					
25. vi	12 m	38	.3	.4	.54	5.88	94	0-5	3
	1 am	45	.1	.4					
	2	54	.3	.4	.43	6.06	97		
	3	60	.1	11.9					
	4	67	7.8	12.0	.49	5.88	93	0-11	1
	5	67	8.1	.0					
	6	61	.3	10.5	.42	.80	89		
	7	51	.6	11.1					
	8	43	.6	.5	.49	.60	88	0-7	1
	9	29	9.7	.6					
	10	27	11.1	.7	.62	.42	86		
	11	24	12.8	.8					
12 n	33	14.4	12.5	.77	.80	93	0-5	3	
15. vii	8 am	60	11.7	11.0	18.11	5.50	86	0-0	4
	9	64	13.1	12.4					
	10	63	14.2	.3	.15	.60	90		
	11	54	15.9	.5					
	12 n	48	.9	.5	.13	.70	92	0-5	4
	1 pm	42	17.2	13.0					
	2	36	18.6	.4	.24	4.64	76		
	3	33	19.2	.6					
4	36	18.6	.5	.45	5.77	95	0-5	4	
5	44	16.4	.3						
6	55	15.6	.0	.44	.77	94			
7	72	14.7	12.8						

Location: **SHRILL POINT**

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
<b>1946</b>									
15. vii	8 pm	81	14.4	12.7	18.24	5.70	92	0-5	5
	9	84	12.2	.7					
	10	83	.0	13.0	.67	.45	89		
	11	75	.0	12.6					
	12 m	63	11.1	.5	.55	.56	90	1-1	5
16. vii	1 am	52	8.9	.2					
	2	39	.9	.1	.54	.52	89		
	3	30	.3	.0					
	4	26	7.8	11.8	.48	.26	84	0-3	5
	5	30	.8	.7					
	6	36	6.7	.6	.36	.50	88		
	7	36	5.6	.7					
	8	55	10.0	.9	.30	4.67	75	0-6	5
29. vii	8 am	60	10.0	11.1	18.88	6.36	101	0-5	8
	9	66	11.1	.4					
	10	63	13.3	.4	.88	5.76	92		
	11	54	15.0	.4					
	12 n	45	.6	.4	.89	.95	95	0-11	8
	1 pm	33	16.7	.9					
	2	30	17.8	12.4	.89	6.35	103		
	3	27	16.7	.3					
	4	28	.3	.6	.98	.20	101	2-2	7
	5	36	15.0	.4					
	6	52	13.3	.0	.88	.03	97		
	7	69	12.2	.0					
	8	84	10.0	.0	19.69	.05	99	1-6	8
	9	88	8.9	11.9					
10	85	.9	12.2	18.94	5.85	95			
11	74	.3	.1						
30. vii	12 m	60	7.4	.1	.94	.50	89	0-7	8
	1 am	48	6.1	.0					
	2	36	5.8	11.7	.94	.85	94		
	3	26	6.9	.4					
	4	22	.4	.3	19.06	.55	89	1-4	8
	5	24	7.2	.2					
	6	33	6.6	.0	18.80	.80	92		
	7	43	10.4	.0					
8	58	11.7	.2	.75	.84	93	0-7	8	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
3. viii	1 pm	60	13.9	13.2	19.25	6.03	100	0	2
	2	60	14.0	.0					
	3	57	13.8	.3	.08	.10	100	0	2
	4	50	.4	.3		.13			
	5	42	.3	.7	.21	.08	100	0	0
	6	36	.2	.2		.14			
	7	32	12.9	.0	.24	.03	100	0	2
	8	29	.8	12.9		5.95			
	9	32	.8	.9	.22	.83	96	0	0
	10	37	.2	13.0		.90			
	11	46	.2	12.9	.18	.83	96	0	0
	12 m	51	.3	.9		.83			
4. viii	1 am	58	.6	.8	.16	.55	91	0	0
	2	57	.0	.8		.66			
	3	53	.2	.6	.14	.73	94	0	0
	4	49	.2	.5		.37			
	5	42	.2	.3	.11	.50	89	0	8
	6	35	.2	.4		.69			
	7	29	11.7	.4	.15	.66	93	0	2
	8	27	.7	.4		.63			
	9	21	13.1	.3	.20	.73	94	0	2
	10	35	.7	.3		.92			
	11	40	.9	.8	.15	.96	98	0	0
	12 n	50	14.0	13.0	.15	.95			
	1 pm	57	.4	.1	.47	.48	91	0	0
12. viii	8 am	64	20.0	13.6	19.09	5.56	93	0-2	10
	9	58	22.2	.9					
	10	52	.8	15.4	.08	.46	94		
	11	45	25.6	.8					
	12 n	39	26.7	.6	.09	.77	100	0-6	7
	1 pm	26	27.2	.0					
	2	27	.2	.2	.20	.83	100		
	3	31	.2	.1					
	4	42	26.1	.0	.17	.80	99	0-2	12
	5	52	25.0	14.8					
	6	67	23.9	.6	.09	.86	99		
	7	75	21.7	.2					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
12. viii	8 pm	81	20.6	14.3	19.06	5.65	95	0-4	10
	9	78	18.9	.3					
	10	72	17.8	.5	.11	.46	93		
	11	60	15.6	15.1					
13. viii	12 m	45	.0	14.4	.09	.36	91	0-2	16
	1 am	36	13.9	.4					
	2	25	12.2	.3	.18	.20	88		
	3	24	11.7	.4					
	4	27	.1	.3	.11	.24	88	0-0	12
	5	36	.1	.1					
	6	45	.1	.0	.11	.43	91		
	7	54	8.9	13.9					
8	63	10.0	14.1	.19	.42	91	0-2	10	
28. viii	9 am	64	13.6	13.2	19.34	5.63	93	4	0
	10	67	14.7	.5					
	11	58	15.9	.5	.43	.78	97		
	12 m	48	18.3	.6					
	1 pm	40	.3	.6	.40	.70	96	3-0	0
	2	30	15.6	.4					
	3	22	16.7	.5	.46	.92	99		
	4	22	13.3	.0					
	5	29	.9	14.1	.44	6.05	102	2-1	0
	6	42	12.2	13.8					
	7	57	.2	14.0	.44	5.75	97		
	8	66	.3	13.4					
29. viii	9	75	11.1	.5	.36	.80	97	1-2	0
	10	78	.1	.0					
	11	72	10.0	.1	.40	.74	95		
	12 m	60	8.3	12.6					
	1 am	45	7.2	.0	.40	.56	90	2-1	0
	2	33	.2	.6					
	3	22	.2	.5	.43	.53	91		
	4	17	.2	.5					
	5	24	.2	.0	.46	.45	89	2-1	0
	6	29	.8	.7					
	7	40	8.3	.5	.53	.42	89		
	8	51	10.0	.5					
9	62	12.2	.6	.44	.40	89	3-0	0	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
9. ix	8 am	52	10.0	12.4	19.51	5.44	89	2-1	2
	9	46	13.6	13.7					
	10	40	18.3	.9		.38			
	11	31	12.8	18.3					
	12 n	24	.0	19.2	.56	.42	93	1-2	2
	1 pm	22	11.7	18.9					
	2	27	12.8	19.7		.37			
	3	36	11.4	18.0					
	4	48	.4	17.8	.59	.73	99	1-2	0
	5	60	12.2	16.7					
	6	70	10.0	15.9		.77			
	7	74	11.7	13.9					
	8	70	9.4	11.1	.57	.72	98	0-5	0
	9	62	8.3	10.6					
	10	51	9.1	.1		.59			
	11	39	.4	11.1					
	12 n	28	.4	12.2	.57	.10	87	4-2	0
10. ix	1 am	20	.4	.8					
	2	19	8.6	.8		4.52			
	3	22	.3	.0					
	4	28	9.4	11.7	.58	5.27	90	1-5	0
	5	39	8.5	.7					
	6	50	7.8	.7		.40			
	7	58	.8	12.8					
	8	60	8.9	15.6	.56	.30	90	2-2	0
23. ix	8 am	63	12.2	15.4	19.88	5.09	88	3-2	0
	9	54	13.0	.0					
	10	44	14.0	.7		.40			
	11	33	13.9	.6					
	12 n	27	15.0	16.0	.71	.45	95	4-0	0
	1 pm	25	14.2	.5					
	2	29	12.8	.5		.79			
	3	38	13.3	.5					
	4	51	12.8	.5	.25	.60	98	2-2	0
	5	67	.8	.5					
	6	76	.8	.1		.43			
	7	82	.2	15.9					

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
23. ix	8 pm	77	12.2	15.9	19.74	5.60	98	5-0	0
	9	69	11.1	.5					
	10	56	10.6	.5		4.90			
	11	45	9.4	.4					
24. ix	12 m	30	8.3	14.9	.68	.95	85	2-2	0
	1 am	24	7.8	15.0					
	2	21	.2	14.5		5.15			
	3	24	6.1	.5					
	4	35	5.6	.0	.75	.25	90	1-3	0
	5	48	7.2	.8					
	6	60	6.4	.9		.33			
	7	68	8.3	.9					
	8	70	11.1	15.0	.54	.33	92	2-2	0
8. x	1 pm	21	21.1	17.5	19.90	5.90	106	3-13	1
	2	28	20.6	.7					
	3	37	19.4	.7		.60			
	4	47	.2	.4					
	5	59	18.6	.5	.84	.55	100	0-11	0
	6	67	17.8	.4					
	7	66	18.3	.4		.56			
	8	63	.0	.3					
	9	54	15.9	.4	.86	.25	94	1-9	0
	10	42	12.8	.4					
	11	30	.8	.4		4.80			
	12 m	19	10.0	18.0					
9. x	1 am	19	.0	.0	20.12	.30	78	0-8	0
	2	18	12.8	17.9					
	3	24	.8	16.1		5.14			
	4	33	.2	.1					
	5	49	.2	.1	19.88	.40	95	0-10	0
	6	56	14.4	.1					
	7	62	16.1	.1		.32			
	8	58	17.2	.2					
	9	54	.8	.6	.98	4.95	88	0-10	0
	10	44	.0	.6					
	11	31	16.7	17.5		5.30			
	12 n	22	.7	.5					
	1 pm	17	.1	18.0	20.12	.40	99	0-10	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl. ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
21. x	9 am	36	17.8	16.8	19.84	4.76	85	1-7	12
	10	30	18.3	17.1					
	11	24	.3	.5		.70			
	12 n	22	.9	.3					
	1 pm	27	.9	.9	.87	.74	86	0-6	7
	2	33	19.4	18.0					
	3.30	51	.4	.1		5.45			
	5	60	.4	17.8	.77	.18	94	0-6	4
	6	70	18.3	.8					
	7	66	.3	.8		.14			
	8	57	.3	.8					
22. x	9	48	.3	.3	.80	.14	92	1-4	8
	10	30	17.2	.5					
	11	24	.2	.7		4.70			
	12 m	18	16.7	.5					
	1 am	22	17.2	.6	.74	.57	83	0-7	7
	2	24	.2	.6					
	3	34	16.7	.6		.95			
	4	44	.1	.5					
	5	54	.1	.5	.64	5.02	90	0-6	7
	6	63	.1	.6					
	7	63	.1	.6					
11. xi	8 am	70	18.9	20.4	19.55	4.62	87	0-6	14
	9	81	17.8	.1					
	10	84	18.3	.5		.57			
	11	75	17.8	.6					
	12 n	63	18.3	.8	.54	5.20	98	0-7	16
	1 pm	47	.3	21.0					
	2	30	.9	.9		4.38			
	3	15	.9	23.0					
	4	12	.9	.0	.58	.92	97	0-10	6
	5	13	.9	22.5					
	6	21	.9	.3		.48			
7	37	.3	.0						
8	48	.3	23.3	.59	5.09	101	0-17	4	



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
11. xi	9 pm	62	18.3	23.0					
	10	66	.3	22.0		5.08			
	11	63	16.1	.0					
12. xi	12 m	51	15.6	20.9	19.62	4.92	94	1-5	4
	1 am	44	.6	21.1					
	2	30	14.4	20.9		.58			
	3	24	.4	.7					
	4	21	.4	.3	.70	.30	81	3-8	6
	5	24	15.0	.5		.63			
	6	34	16.1	.5					
	7	46	.7	.5					
25. xi	8	63	17.2	.4	.65	.70	89	3-7	4
	8 am	69	20.0	21.0	18.87	4.60	87	0-11	4
	9	72	.3	.0					
	10	68	21.7	22.0	.93	.90	94		
	11	60	.4	.2					
	12 n	51	.1	.5	19.02	.95	96	0-8	4
	1 pm	36	20.6	23.5					
	2	27	.6	.5	.03	.28	84		
	3	18		24.4					
	4	18	.9	.5	.07	5.22	105	4-10	4
	5	21	.6	.5					
	6	31	.6	.0	.03	4.95	98		
26. xi	7	43		23.0					
	8	50	.0	22.8	18.95	.95	90	0-16	4
	9	55	.0	23.8					
	10	55	19.4	22.4	.92	.95	90		
	11	51	.4	.4					
	12 m	43	.4	.3	19.17	.45	86	3-16	6
	1 am	36	.7	.2					
	2	28	.2	.0	.19	.10	79		
	3	18	18.9	21.9					
	4	27	.9	.8	.15	.55	91	4-10	1
	5	33	.6	.7					
	6	42	21.2	.6	.10	.66	92		
	7	54	19.4	.6					
	8	65	21.4	.7	.01	.80	95	3-6	4

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1946									
25. xii	11 am	34	25.1	23.6	19.90	5.45	109	2-0	
	12 n	40	24.3	25.0					
	1 pm	44	.5	.4	.93	.70	117		
	2	46	.4	.5					
	3	48	.4	.6	.91	4.45	92	4-4	
	4	45	.4	26.0					
	5	42	.4	.0	.94	5.70	119		
	6	40	.1	.0					
	7	38	23.9	.1	.95	6.05	127	2-11	
	8	33	.8	.1					
	9	33	.9	.3	.99	5.10	107		
	10	33	.9	.2					
26. xii	11	39	.9	25.7	20.05	4.70	97	1-11	
	12 m	45	.3	26.0					
	1 am	48	.5	.0	.07	5.25	109		
	2	54	.5	25.0					
	3	64	.5	.0	19.93	4.00	82	2-42	
	4	66	21.3	.0					
	5	57	.2	.0	.94	.75	98		
	6	53	20.0	.0					
	7	48	23.1	.0	.91	.10	84	2-16	
	8	42	24.0	.0					
	9	38	23.9	.0	.97	.60	94		
10	32	27.3	.5						
11	31	29.3	26.8	.93	.70	99	2-11		
1947									
21. i	8 am	72	22.5	24.0	19.64	4.55	91	0-14	14
	9	67	23.3	.2					
	10	60	.3	.4	.90	.49	91		
	11	48	.9	.5					
	12 n	38	24.7	.5	20.12	.58	93	0-14	10
	1 pm	30	.4	.5					
	2	21	.7	.5	.37	.57	93		
	3	21	.7	25.0					
	4	27	.4	.5	.44	.40	91	0-14	12
	5	33	.2	26.0					
	6	39	.2	.3	.10	.37	92		

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1947										
21.1	7 pm	51	23.6	26.1						
	8	63	.3	25.5	20.11	4.48	93	0-16	7	
	9	52	.0	.1						
	10	48	22.8	.0	19.90	.37	89			
	11	39	.8	24.9						
	12 m	35	.8	.7	20.13	.10	84	0-22	10	
	22.1	1 am	27	.2	.5					
		2	23	.2	23.6	.13	.10	82		
		3	27	.2	.5					
		4	34	.2	.8	.00	.40	88	0-12	7
		5	43	20.9	.8					
		6	54	.6	.7	19.96				
7		65	22.8	24.0						
8		70	23.9	.2	.81	.30	87		7	
20.11	9 am	72	22.3	22.5	19.84	4.46	87	0-3	12	
	10	63	21.2	.1						
	11	53	22.0	.3	.87	.72	92			
	12 n	39	.0	.6						
	1 pm	28	.2	.5	.86	.99	98	0-14	9	
	2	18	.2	.6						
	3	19	.0	.6	.88	.99	98			
	4	22	.0	.6						
	5	28	.0	.6	.88	3.84	75	0-12	7	
	6	36	.2	.6						
	7	41	.5	.6	.81	.04	60			
	8	60	.5	.5						
9	60	.5	.4	.79	4.64	91		12		
10	54	.5	.4							
11	45	21.7	.1	.91	.34	84				
12 m	39	.7	.2							
21.11	1 am	27	.7	21.6	.88	3.88	76	0-3	7	
	2	20	.4	.6						
	3	26	20.6	.4	.80	4.36	85			
	4	30	.6	.4						
	5	42	18.9	.7	.83	.42	86	2-5	4	
	6	54	19.8	.7						
	7	64	20.9	22.0	.76	.41	86			
	8	72	22.8	.1						
	9		.8	.1	.78	.44	86	4-3	7	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
18.iii	8 am	60	23.3	23.3	19.62	4.05	80	5-10	7
	9	52	.1	.4					
	10	44	22.8	24.2	20.01	.45	90		
	11	37	.8	.4					
	12 n	32	.8	.4	19.97	.17	84	1-12	7
	1 pm	30	20.6	.0					
	2	36	.0	23.8	.68	.32	87		
	3	42	.0	.6					
	4	50	.3	.5	.68	.58	91	3-4	7
	5	54	.0	.5					
	6	59	.0	.4	.68	.66	93		
	7	60	19.4	.8					
	8	55	.7	.3	.68	.56	91	1-9	7
	9	48	.7	.2					
	10	42	.4	.1	.68	.47	89		
	11	37	.4	.0					
	12 m	36	.4	.2	.68	.37	87	3-9	4
19.iii	1 am	39	.2	.0					
	2	48	.2	.0	.63	.33	86		
	3	54	.2	.0					
	4	60	.4	22.9	.63	.31	85	3-7	9
	5	66	.4	.9					
	6	72	20.0	.9	.63	.48	110		
	7	74	.0	.9					
	8	69	.3	23.0	.63			3-7	7
23.iv	8 am	60	16.9	17.7	19.33	4.87	87	0-3	15
	9	66	.8	.8					
	10	72	17.6	.8	.14	5.14	92		
	11	69	.2	18.0					
	12 n	57	16.1	.0	.07	.27	95	0-1	12
	1 pm	45	19.4	.2					
	2	34	.2	.3	.16	.92	107		
	3	27	.2	.5					
	4	24	17.0	17.3	.07	.44	97	1-2	12
	6	42	.2	18.0	.13	.45	98		
	7	51	16.7	.0					
	8	65	.7	17.9	.00	.40	97	0-5	15

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
23. iv	9 pm	75	16.1	18.0					
	10	84	.1	17.9	19.18	5.12	92		
	11	80	15.0	.9					
24. iv	12 m	72	14.2	18.8	18.89	.16	94	0-5	7
	1 am	58	16.1	17.4					
	2	44	.1	.4	19.09	4.64	83		
	3	33	.0	.2					
	4	21	13.1	16.9	.20	.90	86	1-2	7
	5	18	12.8	.8					
	6	22	.8	.8					
	6.30	27	.8	.8	.21	.75	84		
	7	30	.8	.7					
	8	42	14.4	17.2	.35	5.12	91	1-4	7
19. v	8 am	67	16.1	18.3	19.01	4.55	82	0-5	25
	9	58	17.8	.0					
	10	48	18.3	.0	.11	.55	82		
	11	37	.3	.3					
	12 n	25	.1	.5	.15	.95	90	0-7	25
	1 pm	20	.1	.5					
	2	24	17.3	19.2	.21	6.65	122		
	3	30	.8	.2					
	4	45	.2	.0	.16	5.62	103	0-5	17
	5	72	16.4	.0					
	6	60	.7	18.8	.14	4.90	89		
7	84	.7	.9						
8	81	15.6	.9	.11	.77	87	0-8	32	
9	74	.6	.7						
10	62	14.4	.8	.21	.89	89			
11	51	.7	.8						
12 m	36	15.6	.8	.23	.54	83	0-10	22	
20. v	1 am	27	.0	.7					
	2	21	14.1	.5	.36	.58	83		
	3	24	13.9	.4					
	4	36	14.2	.4	.29	.52	82	0-8	25
	5	44	.5	.4					
	6	56	15.6	.3	18.98	.89	89		
	7	54	.3	.4					
	8	69	16.1	.4	19.14	.64	84	0-7	25

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
23. vi	8 am	23	11.9	11.7	18.51	5.80	93	0-3	11
	9	33	13.9	.7					
	10	44	.6	.7	.50	6.22	99		
	11	55	15.9	12.0					
	12 n	62	17.8	.0	.45			0-5	16
	1 pm	61	.8	.0					
	2	55	19.7	.5	.47	5.60	91		
	3	49	20.6	.7					
	4	35	17.8	.5	.52	6.70	109	0-7	15
	5	31	.2	.5					
	6	29	15.6	.5	.64	.71	109		
	7	34	.7	.5					
	8	42	11.1	.2	.48	.22	100	0-1	16
	9	54	10.6	.2					
24. vi	10	65	11.1	.2	.62	5.88	95		
	11	75	.7	.2					
	12 m	83	8.9	.2	.58	.95	96	0-3	16
	1 am	82	.6	.4					
	2	85	.6	.0	.53	6.06	98		
	3	66	.6	.1					
	4	47	11.1	11.0	.51	5.08	80	0-3	16
	5	36	.7	.4					
8. vii	6	27	14.2	.4	.56	.15	82		
	7	23	.4	.1					
	8	24	13.3	.0	.49	.34	84	0-3	11
	9 am	48	8.4	11.6	18.93	5.90	95	1-1	2
	10	54	10.6	.8					
	11	61	12.8	.8	.75	3.97	96		
	12 n	63	13.9	12.1					
	1 pm	60	14.2	.4	.75	6.07	99	0-0	2
	2	54	.7	.5					
	3	48	15.0	.6	.78	.27	102		
5	38	13.3	.6	.81	.54	107	0-1	2	
6	39	11.7	.4						
7	45	10.6	.3	.78	.27	102			
8	52	9.4	.3						
9	63	10.0	.0	.77	.20	100	0-1	6	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P.	NO <sub>3</sub> -N
1947									
8.vii	10 pm	71	7.8	12.0					
	11	78	8.9	.0	18.75	5.88	95		
	12 m	78	7.8	11.9					
9.vii	1 am	75	8.3	.8	.79	6.07	97	0-1	2
	2	66	.5	.7					
	3	54	9.7	.7	.81	.00	96		
	4	45	.7	.6					
	5	36	.4	.5	.80	5.84	93	0-1	0
	6	30	10.0	.5					
	7	30	9.4	.5	.81	6.84	94		
	8	36	10.3	.6					
	9	43	11.1	.6	.95	5.85	94	0-1	0
21.vii	9 am	48	8.1	10.5	18.98	6.20	97	0-1	0
	10	58	10.6	.6					
	11	64	12.2	11.0	19.00	.20	98		
	12 n	63	14.2	.1					
	1 pm	53	15.9	.5	18.99	.33	101	0-1	5
	2	45	16.1	.6					
	3	30	14.4	.7	19.03	.68	107		
	4	24	.2	.8					
	5	22	13.9	12.0	.04	.75	90	0-1	3
	6	27	12.8	11.9					
	7	38	11.7	.6	.07	.50	104		
	8	48	10.0	.6					
	9	66	12.2	10.3	.02	.33	101	0-1	3
	10	78	.2	11.4					
	11	85	11.7	12.3	.27	.22	101		
	12 m	73	.1	.6					
22.vii	1 am	70	10.6	.1	.11	.25	101	0-1	3
	2	56	.6	11.4					
	3	42	.0	.3	.08	.27	100		
	4	33	.3	.3					
	5	20	.0	.0	.11	5.81	92	0-3	5
	6	18	.0	.0					
	7	21	9.4	.2	.18	6.03	96		
	8	28	.4	.2					
	9	39	11.4	.3	.01	.22	99	0-3	3

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
5.viii	9 am	54	13.3	11.3	19.43	6.18	99		
	10	60	18.6	.4					
	11	60	.3	.5	.26	.12	99	0-12	0
	12 n	55	16.7	.5					
	1 pm	45	18.6	.7	.30	.32	102	0-13	3
	2	38	17.8	.7					
	3	30	.2	.8	.43	.57	106		
	5	26	20.6	.9	.32	.48	105	0-17	0
	6	33	18.9	.9					
	7	44	16.7	.7	.42	.23	101		
	8	54	15.6	.7					
	9	65	.6	.5	.28	.18	99	0-12	0
	10	72	13.9	.5					
	11	73	.3	.5	.49	.20	100		
	12 m	67	12.0	.4					
6.viii	1 am	55	10.3	.4	.35	.21	100	0-11	0
	2	46	11.1	.4					
	3	34	7.2	.1	.35	.10	97		
	4	24	12.8	10.7					
	5	21	8.9	11.0	.34	.00	95	0-11	0
	6	22	12.8	10.9					
	7	28	13.9	.9	.36	5.95	94		
	8	39	16.4	11.1					
	9	47	.7	.3	.34	6.08	97	0-13	3
19.viii	8 am	42	11.7	12.6	19.46	5.60	92	6-13	0
	9	56	12.0	.7					
	10	65	13.1	.7	.38	.75	95		
	11	67	12.8	.8					
	12 n	60	14.4	13.0	.43	.81	93	8-14	0
	1 pm	50	.4	.2					
	2	39	.4	.2	.48	.94	99		
	3	29	15.0	.3					
	4	21	.6	.6	.43	.32	89	6-8	0
	5	21	.3	.7					
	6	27	.0	.7	.46	.77	97		
	7	39	.3	.7					
	8	51	.6	.4	.34	.42	90	6-12	0



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
19.viii	9 pm	66	15.6	13.3					
	10	76	.0	.1	19.51	5.67	94		
	11	79	.0	.3					
	12 m	75	.6	.4	.33	.80	97	6-8	0
20.viii	1 am	66	.3	.4					
	2	51	.3	.4	.27	.18	86		
	3	37	14.7	.6					
	4	26	.4	.8	18.86	.39	90	7-10	0
	5	17	13.9	.7					
	6	18	.3	.3	19.24	.20	86		
	7	26	.6	.4					
	8	39	.6	.5	.38	.94	99	6-14	0
	4.ix	2 pm	44	16.7	15.0	19.42	4.45	76	3-13
3		30	.7	.6					
4		24	.7	.7	.50	6.15	107		
5		24	.4	.6					
6		30	15.0	.4	.46	.05	104	4-4	0
7		36	14.7	.3					
8		48	.2	.0	.51	.05	104		
9		59	13.6	14.7					
10		66	.9	.5	.38	5.30	90	3-9	0
11		69	.3	.2					
12 m		64	.1	.6	.50	.80	99		
5.ix		1 am	54	.9	.8				
	2	42	.3	.4	.39	.60	95	3-6	0
	3	34	.3	.4					
	4	24	12.2	.4	.40	.49	93		
	5	21	.2	.4					
	6	24	11.1	.1	.42	.24	89	0-11	0
	7	33	.3	13.9					
	8	43	12.2	14.0	.39	.56	94		
	9	55	13.9	.3					
	10	64	14.4	.3	.39	.68	96	2-5	0
	11	70	17.8	.4					
	12 n	68	18.6	.5	.42	.74	97		
	1 pm	62	.6	.5					
	2	52	.6	.5	.42	6.27	106	3-12	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
16. ix	12 n	54	16.4	17.2	19.53	5.20	93	7-25	0
	1 pm	39	17.0	.5					
	2	26	19.7	.5	.64	.45	98		
	3	19	.7	.9					
	4	20	.4	.7	.68	.57	100	6-24	0
	5	26	.4	.7					
	6	39	17.0	.3	.73	.33	95		
	7	53	15.6	.2					
	8	66	.6	.2	.58	.16	89	3-11	4
	9	76	14.2	16.9					
	10	76	.4	.8	.56	.74	102		
	11	66	13.3	.6					
	12 m	57	.9	.5	.63	.26	93	5-11	0
17. ix	1 am	42	.1	.4					
	2	31	12.2	.0	.82	.67	99		
	3	19	15.9	15.5					
	4	15	12.2	.4	.60	.00	85	4-13	18
	5	19	.0	.3					
	6	27	10.6	.6	.63	.05	88		
	7	41	13.3	.7					
	8	53	15.0	16.0	.64	.07	89	5-10	0
	9	66	.6	.5					
	10	74	17.0	.7	.58	.24	93		
	11	69	.8	17.0					
	12 n	60	18.6	.1	.62	.38	96	7-16	0
7. x	11 am	60	18.3	17.7	19.79	5.40	98	8-18	4
	12 n	66	.1	.6					
	1 pm	74	.3	.6	.72	.38	97		
	2	78	17.8	.6					
	3	72	.5	.7	.78	.42	98	4-8	0
	4	64	18.3	18.2					
	5	56	.3	.3	.82	.43	99		
	6	48	.1	.2					
	7	39	17.8	.1	.84	.32	97	5-13	82
	8	30	.2	.0					
	9	27	16.7	17.7	.87	.24	95		
	10	30	.1	.5					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947									
7. x	11 pm	37	15.6	17.4	19.82	5.32	96	9-3	0
	12 m	44	14.4	.4					
8. x	1 am	51	13.9	.1	.85	.27	94		
	2	55	12.9	.0					
	3	55	13.4	16.8	.83	.24	93	5-6	0
	4	54	15.0	.8					
	5	48	12.8	.6	.83	.08	90		
	6	42	11.7	.4					
	7	36	13.6	.4	.85	.24	93	4-14	0
	8	30	15.9	.5					
	9	36	18.3	.8	.83	.24	93		
	10	41	19.4	.9					
	11	48	18.3	17.3	.84	.38	96	4-0	0
14. x	10 am	63	19.3	17.2	19.76	5.43	97	9-4	2
	11	49	18.6	.2					
	12 n	37	.9	.5	.88	.64	102		
	1 pm	26	19.3	.5					
	2	18	.4	.5	.96	.03	91	10-11	14
	3	19	20.0	18.0					
	4	26	.0	19.0	20.09	4.95	88		
	5	36	18.6	.5					
	6	48	.3	.5	.06	.70	88	12-7	32
	7	69	19.4	18.2					
	8	72	18.9	.0	19.75	.72	86		
	9	70	.9	.0					
	10	63	.3	.5	.72	5.28	97	9-0	12
	11	51	.3	.7					
	12 m	38	17.5	.9	.73	4.35	80		
15. x	1 am	28	.8	.7					
	2	18	18.3	.5	.71	.75	87	11-1	8
	3	18	17.8	.0					
	4	23	.8	17.9	.78	.96	90		
	5	32	.5	.9					
	6	46	.8	.9	.73	5.18	94	9-0	17
	7	58	18.3	.9					
	8	60	20.6	.9	.72	.18	94		
	9	75	19.4	18.1					
	10	74	24.4	.4	.67	6.12	112	13-0	8

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1947 10. xi	8 am	63	16.4	19.5	19.89	4.80	90	0-14	0
	9	51	17.8	.2					
	10	39	.5	.3	.95	5.20	97		
	11	30	16.7	20.1					
	12 n	21	17.0	21.2	20.03	.40	103	7-10	0
	1 pm	18	16.1	.8					
	2	24	.1	22.0	.20	.15	100		
	3	33	.7	.3					
	4	48	.1	21.2	19.97	4.89	94	0-18	0
	5	57	.1	.5					
	6	66	.1	.3	20.05	5.12	98		
	7	69	.1	.0					
8	62	.1	20.5	.06	4.85	92	7-4	0	
9	48	.1	21.0						
10	38	.1	20.4	.13					
11	27	.1	.2						
12 m	19	15.9	19.8	.28	.25	80	0-15	0	
11. xi	1 am	15	.6	.7					
	2	22	.6	.9	.11	.70	88		
	3	30	.6	.8					
	4	42	.0	.9	.03	.61	86	7-11	0
	5	57	14.4	20.0					
	6	67	15.6	.0	19.97	.74	89		
	7	72	16.4	.0					
	8	72	17.2	19.7	.89	.88	91	0-14	0
1948 12. i	9 am	72	18.9	21.7	18.04	4.17	79	10-6	5
	10	72	17.8	.7					
	11	63	.8	.4	17.84	.38	82		
	1 pm	39	15.6	20.4	.43	.72	87	6-7	5
	2	29	16.1	.4					
	3	21	17.0	.4	.50	.97	92		
	4	19	.5	.4					
	5	24	.2	.1	.38	.90	90	7-16	21
	6	39	.8	19.9					
	7	42	.8	20.1	.61	.90	90		
8	50	.5	.1						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
12. i	9 pm	54	17.5	19.4	17.46	4.75	86	11-4	5
	10	57	.8	.7					
	11	51	.8	20.2	.73	.68	86		
	12 m	41	.8	19.6					
13. i	1 am	34	.5	18.4	.46	.38	78	9-8	5
	2	30	.0	.1					
	3	21	16.4	.0	.47	.63	82		
	4	24	.1	17.8					
	5	36	.1	.9	.56	.64	82	11-3	7
	6	45	15.0	19.0					
	7	57	.6	.4	.88	.78	87		
	8	65	17.0	.7					
	9	75	.8	20.2	18.13	.75	88	12-10	23
11. ii	10 am	68	25.0	24.0	18.36	4.70	93	6-10	74
	11	63	22.2	.5					
	12 n	52	24.6	.5	.41	.89	97		
	1 pm	39	.4	25.5					
	2	28	.4	26.0	.31	5.40	110	14-3	11
	3	6	.4	.7					
	4	18	.4	27.3	.38	6.40	134		
	5	23	.4	.2					
	6	28	.2	.2	.45	4.84	101	13-18	0
	7	37	23.9	.2					
	8	48	.9	25.9	.53	.72	96		
12. ii	9	54	.6	.8					
	10	56	.3	.7	.39	3.56	72	10-9	0
	11	52	.3	.6					
	12 m	44	.3	.6	.45	4.55	92		
	1 am	34	.3	.6					
	2	26	.1	.3	.49	3.99	81	14-3	20
	3	16	22.8	.0					
	4	18	.2	.1	.54	.75	75		
	5	27	21.1	.1					
	6	39	.4	24.7	.40	4.40	88	13-11	8
7	48	22.6	.7						
8	59	23.3	.8	.33	.57	91			
9	66	24.7	.5						
10	69	25.6	.6	.33	3.90	78	16-8	7	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
8.iii	9 am	69	19.4	23.5	19.25	5.37	106	4-12	6
	10	55	21.1	.7					
	11	45	25.0	.9	.31	.00	99		
	12 n	36	26.1	24.4					
	1 pm	30	.7	25.2	.33	.91	120	5-15	5
	2	30	25.6	.5					
	3	33	.3	.7	.37	6.23	128		
	4	40	.3	26.0					
	5	48	.0	25.3	.27	5.50	112		2
	6	57	.0	.3					
	7	61	23.9	.0	.31	.47	111		
	8	63	.6	24.9					
	9	57	22.2	25.1	.31	.56	113		3
	10	52	21.1	.0					
	11	43	20.9	24.7	.36	4.95	100		
	12 m	36	.6	.6					
9.iii	1 am	30	21.4	.2	.39	.92	99		3
	2	30	15.9	23.9					
	3	39	20.9	.3	.31	.74	93		
	4	48	21.1	.7					
	5	57	.1	.4	.27	.87	96	20-0	5
	6	62	.1	.3					
	7	64	.1	.4	.26	.88	96		
	8	64	.1	.4					
	9	71	20.9	.2	.33	.56	90	11-0	3
12.iv	9 am	60	19.7	20.8	19.02	4.70	89	7-6	9
	10	63	.7	21.2					
	11	51	20.0	.3	.06	.89	93		
	12 n	42	19.7	.3					
	1 pm	39	.2	.4	.12	5.48	104	5-11	5
	2	34	.2	.4					
	3	27	.4	.3	.08	6.00	114		
	4	22	.4	.4					
	5	24	18.9	.3	.16	5.90	112	5-14	6
	6	34	15.3	20.9					
	7	39	.6	.8	.12	4.89	92		
	8	60	16.7	.7					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
12. iv	9 pm	66	16.7	20.4	19.10	4.75	89	6-10	9
	10	74	15.9	.7					
	11	75	.9	.6	.13	.82	91		
13. iv	12 m	69	.0	.5					
	1 am	60	.0	.0	.11	.72	88	6-5	9
	2	48	.0	.0					
	3	36	14.7	.0	.18	.50	84		
	4	26	13.6	19.6					
	5	21	.1	.3	.24	.33	80	6-12	5
	6	26	.9	.3					
	7	33	14.2	.3	.25	.50	83		
	8	41	15.6	.4					
9	52	17.2	.4	.24	.79	88	6-12	5	
10. v	10 am	66	17.8	16.0	17.11	5.12	87	3-11	99
	11	59	18.1	.3					
	12 n	50	17.5	.0		.87			
	1 pm	40	.8	.1					
	2	28	.8	17.0	16.82	.98	103	4-13	95
	3	26	.2	.3					
	4	33	16.7	.6		6.85			
	5. 30	47	15.9	.5					
	6	54	.6	.3	.72	5.72	99	3-15	169
	7	68	14.4	.3					
	8	81	.4	.4		.31			
9	87	15.0	.5						
10	85	14.7	.3	17.18	.51	96	5-14	74	
11	77	.4	.0						
11. v	12 m	64	.4	16.8		.75			
	1 am	52	.2	17.2					
	2	37	.2	.0	.14	.37	93	3-15	47
	3	33	.2	16.8					
	4	21	13.9	.7		.32			
	5	25	.6	.6					
	6	35	12.8	.6	16.80	.04	86	3-19	56
	7	42	.5	.8					
	8	54	13.1	.8		.08			
	9	63	15.0	.7					
10	66	17.2	17.3	17.18	.12	89	6-8	89	

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
7. vi	8 am	61	11.1	12.0	18.52	5.55	89	3-10	2
	9	58	12.2	.0					
	10	48	15.6	.5		.61			
	11	39	16.1	.7					
	12 n	31	13.3	.6	.54	.60	91	3-8	9
	1 pm	25	17.0	.8					
	2	22	.0	13.2		.80			
	3	23	16.7	.4					
	4	33	.1	.5	.60	.37	89	2-12	4
	5	48	15.6	.5					
	6	60	.0	.5		.81			
	7	72	16.1	.3					
	8	78	.1	.4	.63	.72	96	0-8	10
	9	78	15.9	.4					
	10	69	.0	.4		4.81			
	11	57	.3	.5					
	12 m	45	14.4	.5	.47	5.48	90	3-10	6
8. vi	1 am	32	.2	.4					
	2	23	.2	.8		.40			
	3	24	.2	.9					
	4	27	13.9	.8	17.98	.21	86	4-38	8
	5	29	.9	.9					
	6	40	14.4	.7		.36			
	7	51	.4	.6					
	8	54	13.6	.5	18.42	.61	93	2-11	4
29. vi	6 pm	44	10.9	12.7	16.40	6.58	104	11-3	107
	7	39	9.7	.1					
	8	39	8.1	.1		.57			
	9	42	.3	11.2					
	10	46	7.8	.6	15.92	.56	101	7-12	127
	11	52	.2	.6					
	12 m	58	.2	12.4					
30. vi	1 am	63	8.3	.3		.15			
	2	65	.2	.7					
	3	62	7.8	.8	16.94	5.86	94	11-13	127
	4	57	6.7	.7					
	5	48	5.3	10.8		6.12			



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
30. vi	6 am	43	5.0	11.0					
	7	35	4.2	10.9	16.20	6.24	95	7-9	102
	8	30	5.0	.8					
	9	30	6.4	.9		.29			
	10	34	8.6	11.2					
	11	41	9.7	.2	15.98	.58	101	3-13	90
	12 n	48	11.4	.2					
	1 pm	56	12.2	.5		5.70			
	2	60	13.9	12.3					
	3	64	14.2	.6	16.32	6.69	103	9-9	104
	4	62	.2	.4					
	5	58	12.2	.3	.19	7.35	115	7-6	87
	6	56	11.7	.1					
12. vii	8 am	18	6.1	10.5	17.41	5.80	91	4-13	8
	9	30	9.2	.8					
	10	37	14.2	11.0		6.76			
	11	48	15.6	.2					
	12 n	60	.3	.4	.76	.85	108	4-11	37
	1 pm	64	14.4	.5					
	2	62	.2	.7	.79	7.08	112	2-11	25
	3	53	.2	.7					
	4	46	.2	.8		.01			
	5	37	12.2	12.0					
	6	31	.2	.0		.10			
	7	28	11.7	11.8					
	8	30	10.8	.7	18.06	.05	112	3-6	18
	9	36	.0	.6					
	10	50	8.1	.5		.12			
	11	57	.1	.4					
	12 m	67	.3	.5	17.92	6.65	105	2-12	34
13. vii	1 am	72	.1	.6					
	2	70	.3	.2		.55			
	3	63	.3	10.9					
	4	52	7.5	.6	18.06	.45	100	2-18	26
	5	40	.5	.4					
	6	31	.5	.5		.49			
	7	20	.8	.5					
	8	18	.8	.6	.05	.45	100	2-16	25

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
23. vii	12 n	46	16.1	12.3	18.25	6.14	99	7-0	9
	1 pm	41	14.4	.2					
	2	32	13.6	.4		.68			
	3	26	14.4	.7					
	4	26	13.9	.7	.31	.96	113	7-1	0
	5	31	.0	.6					
	6	40	11.9	.4	.27	.64	107	5-7	0
	7	53	.7	.3					
	8	63	10.6	.2	.31	.54	105	8-8	0
	9	72	.3	.0					
	10	75	9.7	.2		.36			
	11	72	.4	.2					
	12 n	63	.4	.2	.30	.27	101	8-0	0
24. vii	1 am	52	8.9	.1					
	2	40	6.7	11.8		.31			
	3	29	7.8	.7					
	4	22	8.1	.4	.44	3.96	63	8-2	0
	5	21	7.2	.4					
	6	26	.8	.5		4.24			
	7	33	8.2	.6					
	8	42	.8	.6		5.92			
	9	51	12.2	.6					
	10	56	.1	.7		.69			
	11	56	14.4	12.1					
	12 n	53	.7	.4	.34	.83	94	7-7	0
6. viii	10 am	59	10.6	12.9	18.45	6.06	99	0-16	0
	11	50	18.3	.7					
	12 n	39	20.6	13.4		.14			
	1 pm	28	18.6	.6					
	2	17	17.5	14.6	.51			2-11	0
	3	15	16.9	.6					
	4	18	15.8	.2		.10			
	5	31	.0	.2					
	6	46	13.9	.1	.54	5.55	93	3-7	0
	7	63	14.1	13.4					
	8	81	12.8	.8					
	9	87	13.1	.9					

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N					
1948														
6.viii	10 pm	82	11.1	14.0	18.74			5-7	0					
	11	75	.7	13.9										
	12 m	63	.7	14.0										
7.viii	1 am	48	10.6	.0										
	2	26	11.8	13.4	.83	5.98	99	4-10	0					
	3	14	10.7	.3		.60								
	4	7	.3	.3										
	5	9	.3	12.8										
	6	21	9.1	.8	.63	.74	94	4-14	0					
	7	35	8.9	.7		.83								
	8	50	9.9	.8										
	9	57	10.5	.7										
	10	66	.8	.8	.62	.77	94	4-6	0					
20.viii	11 am	55	17.2	13.6	19.12	5.78	96	1-8	2					
	12 n	44	18.3	.8										
	1 pm	36	19.1	14.3						6.22				
	2	32	.1	.6										
	3	33	20.0	15.0						.03	.47	110	3-7	0
	4	39	17.2	14.7										
	5	46	14.1	.3							5.90			
	6	56	13.0	.3										
	7	70	12.8	.2						.02	.97	101	4-27	0
	8	78	11.9	13.8										
	9	80	.9	14.0							6.00			
	10	75	13.0	.2										
11	67	12.8	.2	.01	5.82	98	3-6	0						
21.viii	12 m	53	.5	.1										
	1 am	43	.2	.0		4.99								
	2	30	11.9	.0										
	3	25	.1	.0	.08	5.37	90	5-8	0					
	4	24	12.2	13.9										
	5	29	11.7	.9		.48								
	6	42	.7	.8										
	7	51	.7	.6	.15	.78	96	5-8	0					
	8	58	13.3	.8										
	9	64	14.1	.8		.55								
	10	62	15.6	.9										
11	58	17.2	14.2	.12	.80	98	5-16	0						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1948	3.1x	10 am	56	16.4	13.7	19.27	5.69	95	5-9	0
		11	46	15.8	.8					
		12 n	34	14.7	.8		6.30			
		1 pm	24	13.0	.5					
		2	17	.3	15.1	.41	.55	113	5-6	0
		3	24	.3	.4					
		4	35	.3	14.6		.35			
		5	50	.0	.6					
		6	66	12.5	.2	.18	5.99	101	3-9	0
		7	82	.2	.2					
		8	90	9.4	.4		.38			
		9	87	.3	.5					
		10	81	8.9	.3	.34	.21	88	5-7	0
		11	63	.8	.1					
		12 m	45	.5	.2		.43			
	4.1x	1 am	24	.8	.2					
		2	12	7.9	.2	.46	.82	98	4-9	0
		3	9	8.9	.2					
		4	12	9.2	.1		4.51			
		5	27	8.2	.1					
		6	42	9.9	.2	.33	5.75	97	4-5	0
		7	55	10.7	.2					
		8	69	11.7	13.7		.57			
		9	72	13.6	.8					
		10	67	14.4	.9	.24	.53	93	5-7	5
	17.1x	10 am	51	17.8	17.3	19.68	5.06	91	5-4	10
		11	42	16.4	.7					
		12 n	32	.7	18.0		.40			
		1 pm	26	15.8	.2					
		2	27	14.7	.2	.65	.55	101	5-12	9
3		32	15.0	.0						
4		41	.0	17.6		.52				
5		49	14.7	.3						
6		61	.4	.3	.36	.58	99	4-4	8	
7		72	.4	.3						
	8	84	.1	16.9		.44				
	9	72	.1	.5						

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
17.1x	10 pm	58	13.9	16.3	19.48	5.35	94	3-11	5
	11	48	.9	.4					
	12 m	37	.9	.2		.30			
18.1x	1 am	27	.6	.2					
	2	21	.6	15.8	.51	.28	92	5-6	18
	3	23	.6	.9					
	4	30	.5	.9		.37			
	5	39	.8	.9					
	6	51	12.9	.9	.44	3.62	63	4-8	10
	7	60	.9	.9					
	8	66	13.5	.9		5.41			
	9	64	15.6	.9					
	10		16.7	.9	.38	.56	97	6-2	14
1.x	10 am	49	23.0	18.6	19.19	5.38	98	4-17	0
	11	37	.9	.7					
	12 n	27	.9	19.3		.69			
	1 pm	25	24.4	.3					
	2	30	23.6	.0	.32	6.17	113	6-15	0
	3	42	.9	18.6					
	4	57	.0	.6		5.68			
	5	73	21.7	.5					
	6	81	19.7	.1	.28	.43	98	4-12	0
	7	87	18.4	.2					
	8	78	16.7	.2		.50			
	9	69	.4	.2					
	10	51	15.6	.1	.39	.09	92	4-9	0
	11	45	.3	.1					
	12 m	24	12.8	17.9		4.36			
2.x	1 am	15	13.6	.9					
	2	14	.3	.1	.45	.81	85	4-9	0
	3	25	14.4	.4					
	4	36	.7	.2		5.11			
	5	51	.7	.5					
	6	64	.4	.6	.30	.16	92	2-9	0
	7	76	15.8	.5					
	8	78	16.9	.5	.30	.05	90	3-6	0
	9	72	17.2	.4					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
8.xi	8 am	39	17.2	20.1	19.97	5.03	95	0-12	0
	9	42	.3	.5					
	10	48	21.1	.4		.12			
	11	57	22.5	.5					
	12 n	60	.5	.8	20.09	.34	102	0-14	0
	1 pm	63	.8	21.3					
	2	66	23.3	.6		.29			
	3	60	.6	.4					
	4	54	.3	.3	.06	.55	107	0-14	13
	5	45	22.8	.2					
	6	42	.2	.0		.61			
	7	33	20.8	.8					
	8	30	19.1	20.6	.08	.40	102	1-11	5
	9	31	18.6	.4					
	10	34	17.8	19.8		.08			
	11	38	.8	.8					
	12 n	42	16.9	.6	.03	.06	95	4-8	12
9.xi	1 am	47	.7	.4					
	2	51	.1	.7		4.97			
	3	53	.9	.6					
	4	51	15.8	.5	.03	.94	92	4-3	11
	5	47	16.4	.3					
	6	42	18.3	.2		.85			
	7	38	.3	.2					
	8	37	.3	.8	.08	5.14	96	3-4	10
13.xi	8 am	60	20.0	23.0	20.05	3.93	75		0
	9	51	22.2	.6					
	10	42	24.4	.8		4.37			
	11	34	.7	24.5					
	12 n	31	26.1	.7	.10	5.27	107		0
	1 pm	30	.1	.8					
	2	36	.7	.8		4.96			
	3	42	.4	25.0					
	4	51	25.6	.3	.14	.85	100		38
	5	57	.6	.8					
	7	58	33.3	.4		.54			
	8	54	26.1	.8	.22	.21	88		40

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1948									
13. xii	9 pm	48	26.1	25.8					
	10	36	24.4	.5		3.82			
	11	28	20.0	.4					
	12 m	24	17.8	24.7	20.30	.91	80		13
14. xii	1 am	24	.2	21.6					
	2	30	.2	.6		4.56			
	3	42	16.7	22.0					
	4	54	.7	.8	.22	.57	90		35
	5	54	.7	.7					
	6	75	.7	.7		.63			
	7	75	17.8	21.8					
	8	70	18.0	.4	.00	.66	90		22
1949									
6. i	8 am	43	21.7	24.4	20.00	4.76	96	3-15	0
	9	48	.1	.3					
	10	55	20.6	.3		.92			
	11	62	.6	.4					
	12 n	67	.6	25.2	.04	5.48	113	1-17	0
	1 pm	68	.3	26.0					
	2	64	.3	.0		.10			
	3	58	19.7	.0					
	4	48	.4	25.5	19.93	4.98	103	0-11	0
	5	42	.1	.4					
	6	36	.1	24.6		.62			
	7	29	.1	.5					
	8	30	18.9	.3	20.13	.38	89	2-10	0
	9	33	.9	.2					
	10	39	.9	.0		.96			
	11	49	15.6	23.8					
	12 m	54	18.0	.8	19.88	.90	98	0-12	0
7. i	1 am	60	.6	.7					
	2	58	17.5	.3		.79			
	3	57	.2	.3					
	4	53	.8	22.8	.94	.14	81	0-12	1
	5	48	.8	.8					
	6	43	.8	.9		.51			
	7	39	19.1	.7					
	8	42	.4	.6	.54	.55	89	0-20	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
7.11	7 am	47	24.1	25.5	18.51	3.72	75	21-27	0
	8	42	25.6	26.2					.
	9	40	27.8	.4	.42	.97	82		
	10	41	25.0	27.0					
	11	45	.6	.0	.50	4.38	91	11-7	6
	12 n	49	.0	28.0					
	1 pm	52	23.9	27.5	.49	2.99	63		
	2	55	.3	.8					
	3	58	.9	28.2	.65	5.02	107	4-0	5
	4	55	21.1	.4					
	5	48	24.4	29.0	.66	.76	124		
	6	45	23.9	28.6					
	7	42	.9	.0	.61	.03	106	5-0	15
	8	40	.6	27.9					
	9	38	22.5	.4	.55	4.55	95		
	10	37	.2	.4					
	11	45	.5	26.8	.53	.69	97	8-15	0
	12 m	53	.8	.5					
8.11	1 am	60	23.3	.5	.54	.55	94		
	2	65	22.8	.5					
	3	68	.8	.3	.57	2.86	59	8-13	0
	4	69	.2	25.8					
	5	67	21.7	.5	.58	.93	59		
	6	60	.9	.4					
	7	53	22.2	.5	.64	.04	41	6-15	3
10.11	9 am	39	25.0	24.0	17.85	3.99	78	15-7	8
	10	33	26.4	.2					
	11	29	25.8	.6	18.02	4.33	86		
	12 n	32	.8	25.2					
	1 pm	38	26.9	.0	17.76	.92	98	13-19	7
	2	41	.4	.0					
	3	48	.1	24.9	.45	5.25	104		
	4	52	25.0	25.0					
	5	54	24.4	.2	.47	.72	114	8-16	4
	6	51	23.3	.0					
	7	46	22.5	24.3	18.02	4.37	86		
	8	39	23.9	.3					



Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
10.iii	9 pm	36	23.6	24.4	18.06	4.37	86	11-8	7
	10	34	22.8	.5					
	11	33	.2	.6	.06	.36	87		
	12 m	36	21.9	.2					
11.iii	1 am	44	.7	.0	.04	.33	85	13-7	7
	2	51	.9	.0					
	3	60	.1	23.8	17.90	.42	86		
	4	67	.1	.5					
	5	66	20.8	.5	18.19	.03	79	10-10	7
	6	60	21.1	.0					
	7	58	20.3	.1	.22	.12	80		
	8	55	.3	.2					
	9	48	.0	.0	.26	.21	81	11-3	4
2.iv	4 pm	24	18.9	19.3	18.11	6.04	110	5-10	0
	5	25	.3	.1					
	6	30	17.8	.1		5.77			
	7	40	16.4	18.9					
	8	51	15.3	.7	.16	.27	95	4-9	0
	9	61	14.1	.5					
	10	70	13.9	.8		.01			
	11	69	.0	.8					
	12 m	65	12.5	.8	.13	4.82	87	5-4	3
3.iv	1 am	58	.2	.8					
	2	48	11.7	.9		.74			
	3	37	.4	.4					
	4	28	.1	17.5	.29	.22	75	3-7	0
	5	26	.1	.7					
	6	27	.9	.5		.71			
	7	31	12.8	.5					
	8	39	.8	.5	.08	.40	78	3-9	0
	9	49	21.1	18.6					
	10	55	23.3	.8		.79			
	11	57	19.1	.8					
	12 n	54	20.0	.8	.13	5.50	99	5-7	0
	1 pm	50	16.7	.8					
	2	42	.9	.7		6.05			
	3	35	.7	.7					
	4	29	.4	.6	.17	.31	114	3-9	0

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N	
1949	9. v	10 am	36	14.4	12.9	19.20	5.74	93	16	11
		11	26	17.8	.8					
		12 n	23	.8	.8		.86			
		1 pm	27	.8	.9					
		2	40	.8	13.0	.18	.83	94	9	3
		3	51	.8	.1					
		4	63	.2	12.9		.85			
		5	71	15.3	.8					
		6	68	14.4	.8	.14	.62	91	6	7
		7	73	12.5	13.1					
		8	63	.2	.5		6.09			
		9	52	.2	.6					
10	42	.8	.6	.22	5.61	92	7	4		
11	33	.8	.6							
12 m	28	.8	.6		.47					
10. v	1 am	30	13.9	.5						
		2	40	.3	.5	.28	.41	90	6-7	2
		3	51	.3	.3					
		4	64	12.8	.5		.58			
		5	71	.8	.5					
		6	68	13.3	.5	.14	.44	91	9-2	5
		7	65	.3	.4					
		8	67	12.8	.5		.24			
		9	57	.2	.6					
		10	44	13.6	.7	.20	.36	90	7-7	5
3. vi	9 am	29	11.7	13.9	17.80	5.53	91		15	
		10	36	13.9	14.0					
		11	44	.9	.0	.77	6.03	100		
		12 n	53	14.4	.0					
		1 pm	69	16.7	.3	.71	5.87	98	8-8	6
		2	60	15.3	.5					
		3	58	.0	.6	.82	7.22	121		
		4	52	.0	.7					
5	45	13.9	15.0	.85	.11	120	6-12	10		
6	36	11.1	14.4							
7	34	.1	.4	.85	5.27	88				
8	37	10.6	.4							

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
3.vi	9 pm	42	10.3	14.4	17.80	6.05	101	15-0	23
	10	49	9.7	.2					
	11	58	.4	.2	.83	5.90	98		
	12 m	69	.2	.1					
4.vi	1 am	76	8.9	.1	.77	.83	97	4-11	15
	2	78	9.4	.1					
	3	75	.2	.1	.80	.71	95		
	4	65	8.9	.1					
	5	55	.9	.1	.90	.38	89	3-8	53
	6	45	.9	13.9					
	7	39	9.4	.9	.92	.41	89		
	8	28	.4	.7					
	9	33	8.9	.5	.84	4.37	72	8-34	0
8.vii	9 am	46	12.2	11.7	17.16	6.12	96	19-3	
	10	38	13.3	.7					
	11	32	14.4	12.2	.45	.19	99		
	12 n	27	16.1	11.9					
	1 pm	30	.1	.9	.38	.22	98	6-3	39
	2	36	15.0	12.0					
	3	45	13.3	.5	.32	.44	103		
	4	57	.3	13.0					
	5	70	12.8	.5	.39	.34	103	12-0	52
	6	81	8.9	.6					
	7	85	.6	.6	.53	.67	109		
	8	82	7.8	.4					
	9	69	6.7	12.8	.62	.99	113	3-10	30
	10	56	.1	.7					
	11	47	.1	.4	.64	.55	105		
	12 m	33	5.6	.4					
9.vii	1 am	27	.9	.6	.49	.56	105	5-4	40
	2	22	.6	.6					
	3	27	.3	.5	.53	.78	107		
	4	36	4.4	11.9					
	5	45	.4	.9	.42	.40	101	5-4	40
	6	55	.4	12.0					
	7	60	.4	.0	.40	.30	100		
	8	60	5.0	.0					
	9	54	.6	11.9	.38	.20	98	5-4	47

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949	5.viii	8 am	42	8.9	12.6	17.54	6.19	100	58
		9	36	10.0	.8				
		10	30	13.3	13.0	.65	5.78	94	
		11	28	15.6	.3				
		12 n	30	16.7	.5	.57	6.50	106	5-8
		1 pm	37	17.2	.6				
		2	45	16.7	.6	.54	.92	113	
		3	56	.7	.6				
		4	63	.7	.7	.54	.97	114	7-24
		5	71	.7	.7				
		6	78	15.0	.7	.55	.87	113	
		7	72	14.4	.7				
		8	63	11.7	14.0	.45	4.32	71	4-6
		9	54	10.6	.2				
		10	42	.6	.0	.54	6.75	111	
		11	33	.6	13.9				
		12 m	26	.6	.7	.52	.55	107	4-12
	6.viii	1 am	23	.3	.4				
		2	28	.0	.3	.48	.74	109	
		3	35	9.4	.2				
	4	43	.2	12.8	.49	.68	108	6-7	
	5	49	8.9	13.0					
	6	53	.9	.0	.71	.47	105		
	7	54	.1	12.7					
	8	51	.9	.8	.44	.37	103	4-6	
1.ix	10 am	32	13.9	14.7	17.52	5.88	98	12-20	
	11	40	15.0	15.2					
	12 n	51	19.1	.4	.58	6.26	106		
	1 pm	55	.4	.5					
	2	61	20.8	.7	.55	5.90	100	7-9	
	3	67	16.7	.5					
	4	67	.7	.4	.54	6.55	111		
	5	62	.3	.2					
	6	58	.1	16.0	.52	.22	106	4-13	
	7	42	14.4	15.7					
	8	36	13.6	16.0	.56	.39	109		
	9	31	.3	15.8					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1949									
1.1x	10 pm	24	13.3	15.7	17.57	6.13	104	6-6	10
	11	26	12.8	.6					
	12 m	30	.8	.5	.61	.63	112		
2.1x	1 am	35	.2	.3					
	2	43	11.9	.3	.55	.20	105	8-2	14
	3	47	.1	.3					
	4	51	10.3	.2	.56	.02	101		
	5	49	.0	.2					
	6	46	9.4	.0	.47	5.96	100	3-10	27
	7	42	10.6	14.8					
	8	35	13.3	15.0	.51	.80	97	5-16	20
	9	33	14.7	.1					
1950									
26.1	9 am	46	24.4	25.1	18.13	4.38	88	3-18	13
	10	50	27.2	.3					
	11	55	28.9	.4	.07	5.03	101		
	12 m	59	30.0	.8					
	1 pm	63	32.2	26.8	.11	3.27	68	6-11	17
	2	64	30.0	.5					
	3	57	25.6	.9	.13	5.35	111		
	4	50	.6	27.0					
	5	44	22.2		.40	3.54		3-23	13
	6	42	21.1	26.7					
	7	38	20.6	25.1	.27	4.52	91		
	8	36	.6	.2					
	9	39	.0	.2	.36	3.92	79	3-21	9
	10	41	19.4	.3					
	11	49	.4	24.9	.51	4.07	82		
	12 m	56	20.0	.9					
27.1	1 am	63	19.4	.9	.30	.36	87	4-23	5
	2	65	20.0	.9					
	3	66	19.4	.8	.26	3.68	73		
	4	65	18.9	.6					
	5	58	.3	23.8	.35	4.06	80	4-27	5
	6	54	.9	.7					
	7	47	.9	.5	.43	3.90	76		
	8	42	19.1	.6					
	9	40	18.9	.7	.47	4.11	81	4-15	7

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
13. ii	9 am	50	26.1	27.0	13.95	4.90	97	4-18	80
	10	38	22.2	24.5					
	11	42	20.6	21.5	.77	.96	89		106
	12 n	36	.6	22.0					
	1 pm	35	.6	.5	.73	5.67	104	4-13	192
	2	37	21.1	.5					
	3	39	.1	.4	.64	.69	104		221
	4	44	23.3	.0					
	5	51	21.1	.1	.28	.84	106	4-28	152
	6	54	.7	.0					
	7	56	.7	21.8	.25	.91	106		180
	8	49	.7	.7					
	9	42	.9	.7	.23	.32	96	4-21	160
	10	35	.7	.6					
	11	29	.9	22.2	.32	.36	97		186
	12 m	28	22.8						
14. ii	1 am	30	.2		.36	.06		3-44	144
	2	38	20.6						
	3	48	18.9		.20	.15			144
	4	59	.9						
	5	70	.9	21.8	14.19	4.88	89	3-18	88
	6	76	.9	.6					
	7	76	20.0	.4	.21	.72	85		
	8	72	22.2	.4					
	9	62	.5	.6	13.54	3.51	63	6-20	
31. iii	8 am	69	21.7	23.5	13.62	3.67	68	18-6	14
	9	58	22.2	.8					
	10	45	.2	.8	14.66	4.41	83		
	11	33	.8	.5					
	12 n	23	23.9	.7	.16	.81	90	18-9	11
	1 pm	21	.0	.8					
	2	25	22.8	.8	12.63	3.52	65		
	3	36	23.6	24.0					
	4	47	.3	23.9	11.55	5.12	94	15-12	29
	5	57	.3	.8					
	6	66	22.8	.8	13.82	4.16	78		
	7	69	21.9	.6					

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
31. iii	8 pm	64	21.7	23.8	13.71	4.54	85	8-11	21
	9	57	.1	24.0					
	10	45	20.6	23.6	12.96	.54	84		
	11	36	.6	.4					
	12 m	28	.3	.1	10.41	.76	85	10-12	19
1. iv	1 am	25	.8	.2					
	2	30	.8	.4	9.28	.34	77		
	3	43	.8	.4					
	4	56	.8	.4	10.33	.38	78	9-14	43
	5	68	.6	.3					
	6	76	.6	.2	12.79	.23	78		
	7	81	.6	.1					
	8	79	.6	.2	14.56	.01	75	13-12	9
4. v	9 am	61	17.8	18.7	16.90	4.38	78	9-7	7
	10	66	20.6	19.0					
	11	63	22.8	.0	17.84	5.23	94		17
	12 m	54	.8	.0					
	1 pm	44	23.3	.0	16.69			8-10	14
	2	36	22.8	.6					
	3	27	20.0	.9	.94	.65	103		7
	4	25	19.4	20.7					
	5	32	.4	.4	.90	.56	102	7-9	9
	6	40	18.9	.2					
	7	55	19.4	19.8	.94	.42	98		4
	8	66	17.8	.8					
	9	80	15.8	.5	17.18	.04	91	6-12	10
	10	87	16.1	.5					
	11	84	15.6	.5	.10	4.17	75		7
	12 m	75	16.7	.5					
5. v	1 am	60	.7	.0	.17	.98	89	7-9	7
	2	47	17.8	.3					
	3	34	.2	.0	.06	.43	79		7
	4	23	.8	.2					
	5	17	.8	.7	.03	.35	79	10-6	4
	6	20	.2	18.7					
	7	27	.2	.9	.16	.81	86		27
	8	39	16.7	.9					
	9	49	17.2	.8	.17	.97	89	9-7	7

Location: SHELL POINT

Date	Time	Tide (n.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
19. vi	9 am	57	17.8	13.1	1.38	6.52	88	31-0	222
	10	62	18.3	.0					
	11	63	15.6	.4	2.26	.77	93	21-15	227
	12 n	60	16.1	.4					
	1 pm	55	.1	.7	3.18	.52	91	19-0	51
	2	49	.1	.5					
	3	42	.7	.7	.41			14-6	58
	4	37	.1	.8					
	5	40	.7	.7	.56	.58	92	19-4	148
	6	44	.1	.7					
	7	55	.7	.4	1.14	.79	92	27-4	143
	8	64	.7	.1					
20. vi	9	72	.1	.2	.06	.81	92	27-3	156
	10	81	.1	.5					
	11	84	.1	.3	.88	.84	93	21-5	168
	12 m	78	.1	.3					
	1 am	71	.1	.2	2.29	.78	93	25-9	153
	2	60	.1	.3					
	3	48	.1	.2		.67		20-9	133
	4	39	.1	.1					
	5	30	.1	.1	.60	.68	91	15-23	114
	6	29	15.6	.0					
	7	33	.6	.1	3.16	.28	86	17-28	124
	8	40	.0						
9	47	14.4	.2	1.66	.57	89	31-6	128	
3. vii	9 am	51	12.2	13.8	13.61	5.80	91	15-0	74
	10	58	.2	14.5					
	11	63	.8	.7	.92	.67	91		70
	12 n	62	14.4	.7					
	1 pm	53	16.1	15.0	14.33	.67	92	12-3	114
	2	48	14.4	.2					
	3	41	15.0	.1	.51	.61	91		67
	4	33	17.2	.2					
	5	31	14.4	14.9	.36	.73	93	11-4	66
6	35	13.3	.8						
7	45	12.8	.8	.07	4.97	80		57	
8	55	11.7	.8						



Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
3. vii	9 pm	66	11.7	14.9	14.50	5.74	93	5-15	73
	10	78	10.0	.9					
	11	81	8.9	.4	.77	.63	91		51
	12 m	78	.9	.0					
4. vii	1 am	72	9.4	.0	.24	.63	89	12-5	57
	2	60	8.3	13.4					
	3	48	.9	.1	.39	.77	90		57
	4	37	7.8	12.5					
	5	24	6.1	13.5	.48	.67	89	12-5	41
	6	24	.7	.6					
	7	24	7.2	12.9	.26	.81	90		49
	8	35	8.3	13.1					
	9	42	12.2	.4	.16	.78	91	10-6	55
31. vii	9 am	58		15.6	10.47	5.09	80	14-8	179
	10	66		.6					
	11	58		.8	.06	.31	83		142
	12 n	49		.8					
	1 pm	40		16.4	9.96	.45	86	9-4	135
	2	32		.5					
	3	26		.5	.69	.62	89		128
	4	22		.4					
	5	31		.4	.81	.81	92	9-12	145
	6	36		.4					
	7	53		.4	.64	.67	89		110
	8	65		.0					
	9	75		.2	12.48	.38	87	15-1	118
10	78		.2						
11	69		.2	10.41	3.93	62		124	
12 m	63		.1						
1. viii	1 am	50		.1	.62	5.33	84	15-6	124
	2	39		.1					
	3	28		15.9	9.91	.52	86		145
	4	21		.9					
	5	19		.9	.81	.45	85	12-2	130
	6	25		16.0					
	7	34		.0	10.22	.09	80		137
	8	46		15.9					
	9	56		.9	11.23	.12	81	11-8	137

Location: SHELL POINT

Date	Time	Tide (ft.)	Air Temp. °C.	Water Temp. °C.	Cl %/oo	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
29. viii	9 am	66		14.2	17.62	6.00	99	5-13	7
	10	66		.4					
	11	60		13.8	.63	5.86	96		
	12 n	49		14.2					
	1 pm	39		.8	.62	6.05	101	3-11	4
	2	29		15.2					
	3	23		.8	.61	.46	110		
	4	23		.8					
	5	32		.6	.52			3-16	7
	6	40		.2					
	7	60		14.8	.52	3.80	64		
	8	70		.8					
9	76		.6	.66	.48	58	7-9	0	
10	77		.7						
11	66		.6	.71					
12 m	54		.5						
30. viii	1 am	43		13.9	.86			5-14	3
	2	28		14.3					
	3	24		.2	.67	5.82	96		
	4	20		13.9					
	5	23		14.0	.55	.88	97	6-12	5
	6	37		13.9					
	7	42		.8	.51	.86	96		
	8	58		14.1					
	9	63		.2	.51			6-46	6
26. ix	9 am	67	17.2	16.8	17.41	4.85	84	0-8	8
	10	61	.8	17.3					
	11	49	18.3	.8	.73	5.22	92		8
	12 n	38	17.8	18.4					
	1 pm	27	16.7	.9	.41			6-7	8
	2	21	.7	19.4					
	3	21	.1	.7	.14	.12	93		8
	4	27	.1	.6					
	5	39	15.6	.3	.17	.34	96	6-4	13
6	51	16.7	18.8						
7	61	15.6	.6	.32	4.99	89		8	
8	69	16.1	.3						

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> ‰	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
26. ix	9 pm	70	16.1	18.4	17.73	5.05	90	7-1	0
	10	63	15.0	19.0					
	11	52	13.9	.0	.64	4.94	89		0
	12 m	39	.9	18.1					
27. ix	1 am	31	.9	.0	.67	.90	87	3-4	0
	2	21	12.8	17.9					
	3	18	.2	.6	.55	.74	83		0
	4	25	.2	.5					
	5	36	11.7	.6	.33	.79	84	6-2	0
	6	47	.7	.5					
	7	59	13.3	.7	.35	5.21	91		8
	8	68	14.4	.9					
	9	72	18.9	.9	16.64	4.76	83	4-10	8
9. x	9 am	51	20.0	19.5	17.80	4.82	87	3-13	3
	10	39	.0	.6					
	11	30	.0	20.2	.80	5.35	99	6-29	4
	12 n	24	.0	.6					
	1 pm	24	.0	21.4	.84	.42	103	5-11	10
	2	33	.0	.5					
	3	42	19.4	.1	.89	.82	109	4-16	1
	4	56	18.9	20.7					
	5	66	19.4	21.0	.89	.86	109	4-11	1
	6	76	17.8	19.8					
	7	76	.8	20.5	18.04	.36	100	5-8	1
	8	69	.8	.6					
	9	57	.2	.5	.01	.44	101	4-6	0
	10	48	.2	21.0					
	11	33	15.0	20.5	17.87	.12	95	8-6	0
	12 m	21	13.9	.0					
10. x	1 am	12	.3	19.5	18.04	4.75	87	9-11	1
	2	15	.3	.4					
	3	27	12.8	.5	.11	5.14	94	19-10	1
	4	39	.8	.4					
	5	57	.8	.5	17.90	.25	96	4-10	1
	6	65	13.3	.5					
	7	70	15.0	.4	18.41	.33	98	7-7	0
	8	69	17.2	.4					
	9	61	16.7	.2	.16	4.87	89	4-9	2

Location: SHELL POINT

Date	Time	Tide (In.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
7. xi	3 pm	51	20.0	20.4	17.50	5.75	106		35
	4	63	.0	.5					
	5	60	19.4	19.6	.70	.80	106		
	6	76	.4	.4					
	7	74	.4	.4	.77	.70	104	9-9	3
	8	63	.4	20.1					
	9	51	.4	.4	.74	4.25	79		
	10	36	18.9	.7					
	11	30	.3	.8	.94	.22	79	11-4	4
	12 m	21	.3	21.0					
8. xi	1 am	22	.3	20.7	.98				
	2	33	16.7	19.6					
	3	45	.7	.6	.75	5.43	99	8-3	2
	4	60	.7	.4					
	5	75	.7	.0	.82	.16	93		
	6	78	.7	.0					
	7	79	18.3	.2	.89	4.54	82	8-0	5
	8	73	.9	.5					
	9	58	19.4	.6	18.08	.95	91		
	10	51	.4	.9					
	11	38	.4	20.0	17.89	5.05	93	6-10	2
	12 n	29	20.0	.2					
	1 pm	25	.0	.6	.91	.46	101		
	2	29	.0	.6					
	3	37	.0	.5	.86			4-13	3
4. xi	9 am	30	21.7	22.5	17.19	3.55	67	0-8	70
	10	30	.1	.8					
	11	36	.7	23.0	.19	4.95	95		
	12 n	42	.7	.3					
	1 pm	51	.7	.6	.09	5.45	105	0-16	71
	2	57	.7	.8					
	3	63	.7	24.0	.14	.44	106		
	4	66	.7	.0					
	5	57	.7	.3	.11	.62	110	3-9	0
	6	49	.1	.8					
	7	42	.1	.9	.25	4.97	98		
	8	34	.1	.5					

Location: SHELL POINT

Date	Time	Tide (in.)	Air Temp. °C.	Water Temp. °C.	Cl ‰	O <sub>2</sub>	O <sub>2</sub> %	PO <sub>4</sub> -P	NO <sub>3</sub> -N
1950									
4. xii	9 pm	26	21.1	24.4	17.43	4.70	92	3-8	0
	10	24	.1	23.7					
	11	24	20.6	.7	.42	.55	90		
	12 m	30	.0	.4					
5. xii	1 am	41	19.4	.7	.28	.28	83	10-7	0
	2	50	18.3	.0					
	3	59	17.2	.0	.19	5.25	100		
	4	66	16.7	22.8					
	5	66	.7	.8	.30	4.78	91	1-10	0
	6	61	17.8	.2					
	7	53	20.0	.5	.37	.21	80		
	8	44	21.7	.5					
	9	37	22.2	23.0	.33	.50	86	8-3	8