

AQUATIC ECOLOGY INVESTIGATIONS
OF A
POTENTIAL POWER PLANT SITE ON SANDUSKY BAY
APPENDIX A

HYDROLOGICAL AND PHYSICOCHEMICAL
WATER QUALITY DATA

SEPTEMBER 1973 - DECEMBER 1974

Prepared for
American Electric Power Service Corporation
Environmental Engineering Division
and
Ohio Power Company
Canton, Ohio

CENTER FOR LAKE ERIE AREA RESEARCH
THE OHIO STATE UNIVERSITY
COLUMBUS, OHIO

OCTOBER 1975

HYDROLOGIC DATA

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SANDUSKY BAY HYDROLOGICAL MEASUREMENTS
BENCH MARK LOCATIONS

- Station #1 Point on south side of retaining wall, which is located on Duffett Ditch at north end of C.R. 280.
- Station #5 Painted arrow located on bridge guard rail on north side of S.R. 6 over Raccoon Creek.
- Station #6 Painted arrow located on top of concrete bridge railing on north side of C.R. 247 over Raccoon Creek.
- Station #7 Painted arrow located on top of north west wing wall on north side of S.R. 6 at Pickerel Creek.
- Station #8 Painted arrow located on top of concrete bridge railing on north side of C.R. 247 over Pickerel Creek.
- Station #9 Painted arrow located on top of concrete bridge railing on north side of S.R. 6 over Schertz Ditch.
- Station #10 Painted arrow located on steel bridge deck support on north side of C.R. 247 over Schertz Ditch.
- Station #11 2" X 2" X 24" wooden stake driven into stream bottom 2' east of culvert. The culvert being located on easterly access road to Miller Spring 1/2 mi. south of S.R. 6.
- Station #12 Painted arrow located on top of concrete bridge railing on north side of S.R. 6 over Miller Spring outlet ditch.

ERIE CO
SANDUSKY CO

Springbrook

Whites Landing

Pickrel Creek

5

2

3

I

Bayshore

12

TELEPHONE

TINE

Millers Spring

T O W N S H I P

17

16

Township Sch

ST LOUIS

BM 603

AND

20

610

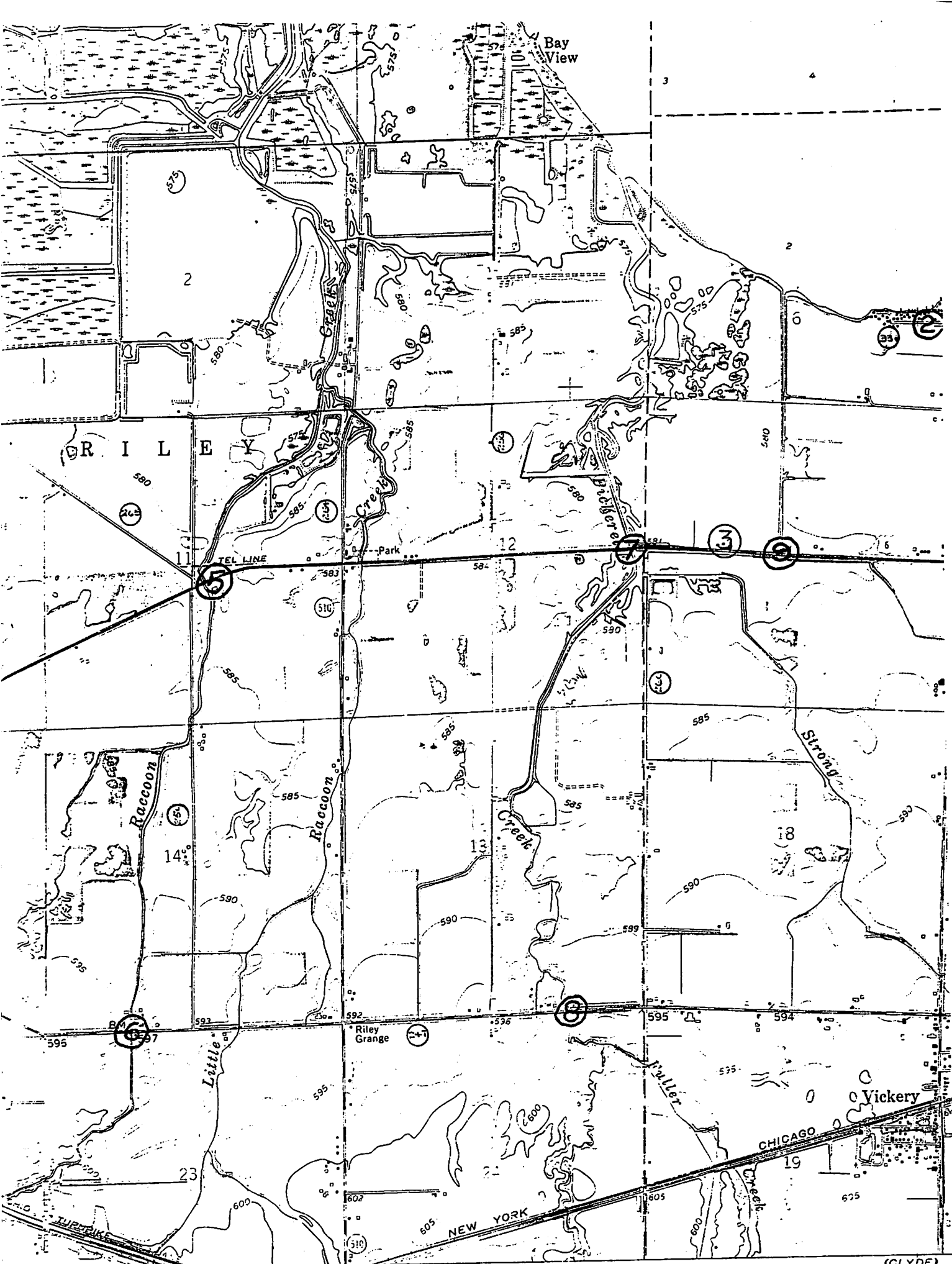
21

615

22

625

12



Bay View

R I L E Y

Raccoon

Raccoon

Little

Creek

Fuller

Vickery

CHICAGO

NEW YORK

1870000 FEET CLYDE (JUNC. U.S. 20) 4.5 MI.

57'30"

(CLYDE)

VISIBILITY CODE

<u>Number</u>	<u>Distance Objects Visible</u>
0	Less than $1/32$ mi. (less than 55 yards)
1	$1/32$ mi. up to $1/8$ mi. (55 to 220 yards)
2	$1/8$ mi. up to $5/16$ mi. (220 to 550 yards)
3	$5/16$ mi. up to $5/8$ mi. (550 to 1,100 yards)
4	$5/8$ mi. up to $1 \frac{1}{4}$ mi. (1,100 to 2,200 yards)
5	$1 \frac{1}{4}$ mi. up to $2 \frac{1}{2}$ mi.
6	$2 \frac{1}{2}$ mi. up to 6 mi.
7	6 mi. up to 12 mi.
8	Greater than 12 mi.

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

SEPTEMBER 1973
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1							
2	1800	NE-8	SW-0.42	15	3	W-0.08	82
3	1800	SE-5	Calm	0	0	0	82
4	1830	W-5	Calm	0	0	0	83
5	1930	NE-3	Calm	0	0	W-0.09	83
6	1830	WNW-12	SE-1.00	30	2	W-0.28	80
7	1800	NW-5	SE-0.50	12	2	E-0.13	76
8	1830	NE-10	SW-1.00	15	2	W-0.28	74
9	1830	Calm	Calm	0	0	0	74
10	1900	W-8	E-0.50	12	2	0	74
11	1830	NW-18	SE-1.50	25	2	W-0.08	72
12	1900	0	Calm	0	0	E-0.06	72
13	1900	E-8	SW-1.00	25	2	WSW-0.13	68
14	-	-	-	-	-	-	-
15	1830	N-8	S-0.50	12	2	0	70
16	1830	N-15	S-1.25	16	2	W-0.09	67
17	1900	Calm	Calm	0	0	0	67
18	1800	N-5	S-0.42	12	2	SW-0.08	65
19	1900	SW-15	E-0.25	10	2	0	62
20	1800	NE-10	SW-0.50	25	2	W-0.14	62
21	1730	E-15	SW-0.83	15	2	W-0.14	63
22	1830	NW-10	SE-1.00	18	2	0	68
23	1730	NE-8	SW-0.50	15	2	0	66
24	1830	E-18	SW-1.00	20	2	W-0.15	66
25	1800	SE-5	Calm	0	0	0	68
26	1800	S-5	Calm	0	0	0	69
27	1830	Calm	Calm	0	0	W-0.08	72
28	-	-	-	-	-	-	-
29	1800	NE-18	SW-0.83	15	2	W-0.28	67
30	1900	NE-15	SW-1.00	18	2	W-0.07	67
31							
Ave	1830	8	0.52	12	1	0.07	71

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

SEPTEMBER 1973

MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG and HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1							
2	1800	NE-8	-	88	0/light	0	0.00
3	1800	SE-5	-	90	0/light	0	0.00
4	1830	W-5	-	89	0/light	0	0.00
5	1930	NE-3	-	78	0/light	40	0.00
6	1830	WNW-12	-	76	0/0	0	0.00
7	1800	NW-5	-	71	0/0	25	0.00
8	1830	NE-10	-	71	0/0	80	0.00
9	1830	Calm	-	60	0/0	0	0.06
10	1900	W-8	30.02	77	0/0	10	0.00
11	1830	NW-18	29.76	76	0/0	0	0.00
12	1900	0	29.99	62	0/0	0	0.00
13	1900	E-8	30.03	64	0/light	50	0.00
14	-	-	-	-	-	-	-
15	1830	N-8	29.81	66	0/0	10	0.00
16	1830	N-15	30.18	61	0/0	80	0.00
17	1900	Calm	30.00	66	0/heavy	95	Trace
18	1800	N-5	30.12	58	0/0	0	0.25
19	1900	SW-15	30.09	57	0/0	20	0.00
20	1800	NE-10	30.18	53	0/0	40	0.00
21	1730	E-15	30.29	64	0/light	80	0.00
22	1830	NW-10	30.02	69	0/light	80	Trace
23	1730	NE-8	30.13	63	0/0	10	0.00
24	1830	E-18	30.15	63	0/light	0	0.00
25	1800	SE-5	30.16	80	0/heavy	40	0.00
26	1800	S-5	30.32	76	0/light	10	0.00
27	1830	Calm	30.23	80	0/heavy	100	0.00
28	-	-	-	-	-	-	-
29	1800	NE-18	30.02	60	0/light	60	1.00
30	1900	NE-15	30.18	58	0/0	10	0.00
31							
Total							1.31
Ave	1830	8	30.09	69		31	0.05

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

SEPTEMBER 1973
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1						
2	1.13	54	7.50	53	0.29	58
3	1.13	53	7.50	52	0.30	58
4	1.13	53	7.50	51	0.30	56
5	1.13	54	7.50	54	0.30	57
6	1.13	54	7.50	52	0.31	57
7	1.13	53	7.50	52	0.31	56
8	1.13	53	7.50	52	0.31	56
9	1.13	53	7.50	53	0.30	55
10	1.13	53	7.50	52	0.31	56
11	1.13	53	7.50	54	0.31	56
12	1.13	53	7.50	54	0.31	56
13	1.13	53	7.50	54	0.31	57
14	-	-	-	-	-	-
15	1.13	53	7.50	53	0.29	55
16	1.13	53	7.50	53	0.30	55
17	1.13	53	7.50	53	0.31	56
18	1.13	53	7.50	53	0.31	56
19	1.13	53	7.50	53	0.30	56
20	1.13	53	7.50	53	0.31	56
21	1.13	53	7.50	53	0.31	56
22	1.13	53	7.50	53	0.31	56
23	1.13	53	7.50	53	0.31	55
24	1.13	53	7.50	53	0.31	55
25	1.13	53	7.50	53	0.31	56
26	1.13	53	7.50	53	0.31	56
27	1.13	53	7.50	53	0.31	56
28	-	-	-	-	-	-
29	1.13	53	7.50	53	0.31	55
30	1.13	53	7.50	53	0.31	55
31						
Ave	1.13	53	7.50	52.8	0.31	56

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

SEPTEMBER 1973
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	0.71	N	-15.80	76	1.67	N	-16.80	74
3								
4								
5								
6								
7								
8								
9	0.83	N	-16.15	66	1.09	N	-17.00	64
10								
11								
12								
13								
14								
15								
16	1.14	N	-16.30	61	0.71	N	-17.00	61
17								
18								
19								
20								
21								
22								
23	1.67	N	-16.30	68	1.00	N	-17.10	64
24								
25								
26								
27								
28								
29								
30	0.58	N	-15.90	65	0.83	N	-17.00	64
31								
Ave	0.99	N	-16.09	67	1.06	N	-16.98	65

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

SEPTEMBER 1973
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	0.00	-	-6.95	82	1.67	N	-14.30	66
3	0.00	-	-7.00	81	0.83	N	-14.25	66
4	0.00	-	-7.05	79	0.83	N	-14.20	61
5	0.00	-	-7.10	81	0.83	N	-14.35	65
6	0.00	-	-7.75	76	0.67	N	-14.30	62
7	0.00	-	-7.25	74	0.71	N	-14.30	63
8	0.00	-	-7.30	70	0.56	N	-14.25	59
9	0.00	-	-7.20	71	0.89	N	-14.30	58
10	0.00	-	-7.60	70	0.71	N	-14.30	60
11	0.00	-	-7.80	64	0.71	N	-14.30	59
12	0.00	-	-7.30	68	0.78	N	-14.30	59
13	0.17	S	-7.30	66	0.83	N	-14.25	59
14	-	-	-	-	-	-	-	-
15	0.06	S	-7.50	67	0.71	N	-14.30	60
16	0.17	S	-7.50	56	0.93	N	-14.30	57
17	0.00	-	-7.35	64	0.71	N	-14.30	58
18	0.08	N	-7.10	64	0.70	N	-14.30	58
19	0.00	-	-7.85	60	0.71	N	-14.30	57
20	0.08	N	-7.10	62	0.71	N	-14.30	56
21	0.10	S	-7.10	61	0.71	N	-14.30	58
22	0.00	-	-8.15	64	0.71	N	-14.30	62
23	0.00	-	-8.45	68	0.71	N	-14.30	61
24	0.24	S	-6.90	67	0.71	N	-14.30	60
25	0.00	-	-7.30	70	0.71	N	-14.30	62
26	0.00	-	-7.85	67	0.71	N	-14.30	65
27	0.00	-	-7.90	74	0.71	N	-14.30	64
28	-	-	-	-	-	-	-	-
29	0.00	-	-7.35	65	0.83	N	-14.20	60
30	0.19	S	-6.85	65	0.71	N	-14.30	60
31								
Ave	0.04	S	-7.40	69	0.78	N	-14.29	61

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

SEPTEMBER 1973
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	0.00	-	-7.10	82	0.71	N	-11.85	76
3	0.00	-	-7.25	83	0.71	N	-11.85	77
4	0.00	-	-7.40	81	0.45	N	-11.85	76
5	0.13	S	-7.40	82	0.42	N	-11.85	79
6	0.00	-	-8.05	80	0.29	N	-11.85	75
7	0.00	-	-7.50	77	0.74	N	-11.85	72
8	0.00	-	-7.50	74	0.48	N	-11.85	68
9	0.13	S	-7.45	65	0.36	N	-11.85	67
10	0.00	-	-7.80	72	0.42	N	-11.85	67
11	0.00	-	-8.05	70	0.67	N	-11.85	67
12	0.06	S	-7.60	73	0.71	N	-11.85	67
13	0.21	S	-7.55	69	0.74	N	-11.85	65
14	-	-	-	-	-	-	-	-
15	0.12	S	-7.80	71	0.22	N	-11.85	68
16	0.13	S	-7.80	66	0.24	N	-11.85	66
17	0.00	-	-7.65	66	0.24	N	-11.85	65
18	0.17	N	-7.40	66	0.22	N	-11.85	64
19	0.00	-	-8.10	64	0.29	N	-11.85	63
20	0.18	S	-7.40	62	0.28	N	-11.85	63
21	0.13	S	-7.35	62	0.26	N	-11.85	64
22	0.09	N	-8.40	70	0.33	N	-11.85	69
23	0.00	-	-8.10	70	0.31	N	-11.85	70
24	0.00	-	-7.10	61	0.30	N	-11.85	66
25	0.07	N	-7.50	74	0.33	N	-11.85	73
26	0.00	-	-8.00	76	0.28	N	-11.85	71
27	0.00	-	-8.05	76	0.24	N	-11.90	75
28	-	-	-	-	-	-	-	-
29	0.00	-	-7.60	68	1.09	N	-11.65	67
30	0.00	-	-7.10	68	0.56	N	-11.85	67
31								
Ave	0.05	S	-7.63	72	0.48	N	-11.84	69

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE

SEPTEMBER 1973
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	1.47	N	-0.10	56	0.83	N	-10.30	64
3								
4								
5								
6								
7								
8								
9	1.57	N	-0.10	55	0.83	N	-10.50	58
10								
11								
12								
13								
14								
15								
16	1.67	N	-0.10	65	1.00	N	-10.60	68
17								
18								
19								
20								
21								
22								
23	2.50	N	-0.15	56	1.25	N	-10.70	60
24								
25								
26								
27								
28								
29								
30	1.25	N	-0.15	54	1.67	N	-10.80	59
31								
Ave	1.69	N	-0.12	57	1.12	N	-10.58	62

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

OCTOBER 1973
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG and HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1800	SE-8	30.11	66	0/light	80	0.13
2	1800	Calm	30.04	66	0/light	50	0.13
3	1800	N-4	30.18	65	0/heavy	10	0.00
4	1800	SW-5	-	76	0/heavy	100	0.19
5	1830	Calm	30.30	63	0/0	0	0.25
6	1830	E-8	30.10	64	0/light	90	0.00
7	1800	NE-5	30.10	60	0/0	80	0.00
8	1730	NE-5	30.12	68	0/heavy	0	0.00
9	1800	Calm	30.18	64	heavy/0	0	0.00
10	1830	E-5	30.22	65	light/0	0	0.00
11	1830	E-5	30.18	64	light/0	0	0.00
12	1730	S-8	30.14	71	0/light	80	0.00
13	1800	SW-18	29.90	62	0/0	70	Trace
14	1800	SW-10	30.16	62	0/0	0	0.00
15	1830	NW-25	29.94	65	0/0	100	0.00
16	1800	NW-30	30.02	56	0/0	80	0.00
17	1800	W-12	29.90	51	0/0	20	0.00
18	1830	Calm	30.31	43	0/0	0	0.00
19	1800	SSW-20	30.02	60	0/0	0	0.00
20	1800	Calm	30.17	53	0/light	100	0.00
21	1830	NE-8	30.24	57	0/0	0	0.00
22	1700	Calm	30.23	57	0/med.	0	0.00
23	1900	Calm	30.15	60	light/0	0	0.00
24	1800	SW-5	30.06	70	0/light	0	0.00
25	1800	SW-18	29.94	74	0/light	60	0.00
26	1900	Calm	30.10	68	0/0	0	0.00
27	1730	NE-15	30.06	54	0/light	100	0.00
28	1730	SW-6	29.80	48	light/0	100	0.25
29	1930	NE-25	29.66	54	0/0	100	0.50
30	1800	W-12	29.67	52	0/0	100	0.13
31	1800	S-10	29.41	50	0/0	100	0.50
Total							2.08
Ave	1805	9	30.05	61		46	0.07

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

OCTOBER 1973
MONTH

DATE	TIME	WIND (dir-mpg)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1800	SE-8	Calm	0	0	0	66
2	1800	Calm	Calm	0	0	E-0.03	65
3	1800	N-4	Calm	0	0	W-0.04	68
4	1800	SW-5	Calm	0	0	W-0.08	69
5	1830	Calm	Calm	0	0	0	66
6	1830	E-8	SW-0.83	30	2	W-0.04	64
7	1800	NE-5	SW-0.50	25	2	W-0.03	64
8	1730	NE-5	SW-0.50	15	2	W-0.06	68
9	1800	Calm	Calm	0	0	W-0.13	68
10	1830	E-5	SW-0.25	30	2	W-0.03	68
11	1830	E-5	SW-0.42	30	2	W-0.04	69
12	1730	S-8	Calm	0	0	0	69
13	1800	SW-18	E-1.00	15	2	W-0.07	67
14	1800	SW-10	E-0.83	20	2	E-0.10	63
15	1830	NW-25	SE-1.25	15	2	0	62
16	1800	NW-30	SE-2.00	15	2	E-0.13	54
17	1800	W-12	SE-1.00	30	2	E-0.08	54
18	1830	Calm	Calm	0	0	0	53
19	1800	SSW-20	Calm	0	0	W-0.10	54
20	1800	Calm	Calm	0	0	0	54
21	1830	NE-8	SW-0.50	12	2	W-0.15	56
22	1700	Calm	Calm	0	0	W-0.06	57
23	1900	Calm	Calm	0	0	0	58
24	1800	SW-5	Calm	0	0	0	56
25	1800	SW-18	E-0.50	30	2	0	58
26	1900	Calm	Calm	0	0	0	60
27	1730	NE-15	SW-1.33	15	2	W-0.12	57
28	1730	SW-6	SE-0.50	30	2	0	51
29	1930	NE-25	SW-2.50	14	2	W-0.56	54
30	1800	W-12	SE-1.00	25	2	0	52
31	1800	S-10	Calm	0	0	0	52
Ave	1805	9	0.45	11	1	0.06	61

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

OCTOBER 1973
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.13	53	7.50	53	0.31	55
2	1.13	53	7.50	53	0.31	55
3	1.13	53	7.50	53	0.31	55
4	1.13	53	7.50	53	0.31	55
5	1.13	53	7.50	53	0.31	56
6	1.13	53	7.50	53	0.31	56
7	1.13	53	7.50	53	0.31	56
8	1.13	53	7.50	53	0.30	57
9	1.13	53	7.50	53	0.30	56
10	1.13	53	7.50	53	0.30	56
11	1.13	53	7.50	53	0.31	56
12	1.13	53	7.50	53	0.30	56
13	1.13	53	7.50	53	0.30	56
14	1.13	53	7.50	53	0.31	56
15	1.13	53	7.50	53	0.30	54
16	1.13	53	7.50	53	0.30	54
17	1.13	53	7.50	52	0.31	54
18	1.13	53	7.50	52	0.31	54
19	1.13	53	7.50	52	0.30	54
20	1.13	53	7.50	52	0.30	54
21	1.13	53	7.50	53	0.31	54
22	1.13	53	7.50	53	0.31	54
23	1.13	53	7.50	52	0.30	53
24	1.13	53	7.50	52	0.30	53
25	1.13	53	7.50	52	0.30	53
26	1.13	53	7.50	53	0.30	54
27	1.13	53	7.50	53	0.30	54
28	1.13	53	7.50	53	0.30	54
29	1.13	53	7.50	53	0.30	54
30	1.13	53	7.50	53	0.30	54
31	1.13	53	7.50	53	0.30	54
Ave	1.13	53	7.50	53	0.30	55

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

OCTOBER 1973
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	0.83	N	-16.05	61	1.25	N	-17.00	61
8								
9								
10								
11								
12								
13								
14	1.09	N	-16.00	58	1.25	N	-17.00	50
15								
16								
17								
18								
19								
20								
21	0.83	N	-15.90	54	1.25	N	-17.00	52
22								
23								
24								
25								
26								
27								
28	0.83	N	-16.00	53	1.67	N	-16.90	54
29								
30								
31								
Ave	0.90	N	-16.24	57	1.36	N	-16.98	54

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

OCTOBER 1973

MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.55	66	1.00	N	-14.30	60
2	0.00	-	-7.60	65	0.83	N	-14.30	60
3	0.04	S	-7.80	66	0.83	N	-14.30	61
4	0.12	N	-7.95	66	1.00	N	-14.00	64
5	0.08	N	-7.50	63	1.00	N	-14.20	58
6	0.12	S	-7.40	60	0.83	N	-14.25	57
7	0.15	S	-7.40	63	1.00	N	-14.30	58
8	0.00	-	-7.50	68	0.83	N	-14.30	62
9	0.00	-	-7.55	67	0.71	N	-14.30	60
10	0.00	-	-7.45	69	0.71	N	-14.30	60
11	0.12	S	-7.55	69	0.83	N	-14.30	60
12	0.00	-	-7.95	66	0.83	N	-14.30	62
13	0.23	N	-8.65	60	0.83	N	-14.30	56
14	0.00	-	-8.70	58	0.83	N	-14.30	56
15	0.00	-	-7.95	60	0.83	N	-14.30	56
16	0.11	S	-8.55	54	0.83	N	-14.30	52
17	0.18	N	-8.25	54	0.83	N	-14.30	52
18	0.04	N	-7.90	52	0.83	N	-14.30	52
19	0.18	N	-8.90	50	0.83	N	-14.30	53
20	0.09	S	-7.90	51	0.83	N	-14.30	53
21	0.00	-	-7.65	54	0.83	N	-14.30	54
22	0.22	S	-8.05	56	0.83	N	-14.30	55
23	0.18	S	-8.05	53	0.83	N	-14.30	53
24	0.00	-	-8.00	55	0.83	N	-14.30	57
25	0.00	-	-8.55	58	0.83	N	-14.30	58
26	0.00	-	-8.05	56	0.83	N	-14.30	57
27	0.11	S	-7.06	55	0.83	N	-14.30	54
28	0.13	N	-8.05	53	0.83	N	-14.30	51
29	0.63	S	-6.50	54	0.83	N	-14.30	52
30	0.00	-	-7.90	52	1.00	N	-14.20	52
31	0.00	-	-8.25	52	0.83	N	-14.30	52
Ave	0.09	S	-7.87	59	0.85	N	-14.28	56

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

OCTOBER 1973
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft./sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft./sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.13	N	-7.70	68	0.45	N	-11.85	67
2	0.15	N	-7.85	70	1.67	N	-11.50	69
3	0.12	S	-7.95	68	0.45	N	-11.80	68
4	0.00	-	-8.15	70	1.67	N	-11.30	70
5	0.08	N	-7.70	66	1.25	N	-11.65	65
6	0.09	S	-7.60	63	0.56	N	-11.80	63
7	0.00	-	-7.55	65	0.50	N	-11.80	65
8	0.00	-	-7.70	72	0.52	N	-11.80	69
9	0.00	-	-7.70	71	0.45	N	-11.85	67
10	0.21	N	-7.80	73	0.38	N	-11.85	68
11	0.00	-	-7.70	73	0.35	N	-11.85	67
12	0.00	-	-8.10	70	0.29	N	-11.85	68
13	0.15	N	-8.90	63	0.42	N	-11.80	66
14	0.00	-	-9.00	62	0.39	N	-11.85	59
15	0.11	S	-8.10	62	0.42	N	-11.85	60
16	0.11	S	-8.70	55	0.38	N	-11.85	54
17	0.12	N	-8.45	55	0.37	N	-11.90	53
18	0.06	N	-8.10	53	0.37	N	-11.90	50
19	0.11	N	-9.00	57	0.29	N	-11.90	54
20	0.00	-	-8.10	56	0.28	N	-11.90	55
21	0.00	-	-7.85	56	0.33	N	-11.90	54
22	0.17	S	-8.30	56	0.33	N	-11.90	56
23	0.00	-	-8.25	57	0.26	N	-11.90	53
24	0.09	N	-8.20	60	0.23	N	-11.90	58
25	0.00	-	-8.80	64	0.23	N	-11.90	60
26	0.00	-	-8.25	60	0.24	N	-11.90	57
27	0.00	-	-7.80	58	0.21	N	-11.90	57
28	0.11	N	-8.30	54	0.56	N	-11.85	52
29	0.40	N	-6.60	54	1.25	N	-11.70	53
30	0.00	-	-8.10	52	1.67	N	-11.65	52
31	0.00	-	-8.40	52	1.00	N	-11.70	53
Ave	0.07	N	-8.09	62	0.57	N	-11.81	60

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE STREAM

OCTOBER 1973

MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	1.47	N	-0.15	54	0.83	N	-10.70	58
8								
9								
10								
11								
12								
13								
14	1.25	N	-0.15	53	1.67	N	-10.75	60
15								
16								
17								
18								
19								
20								
21	1.47	N	-0.15	52	1.39	N	-10.85	58
22								
23								
24								
25								
26								
27								
28	-	-	-	-	1.25	N	-10.75	52
29								
30								
31								
Ave	1.40	N	-0.15	53	1.30	N	-10.76	57

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

NOVEMBER 1973
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG and HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1800	SW-20	29.86	44	0/0	60	0.13
2	1730	NW-10	29.87	50	0/0	100	0.00
3	1730	N-10	30.30	40	0/0	0	0.06
4	1700	N-10	30.23	44	0/light	60	0.00
5	1800	W-18	30.30	38	0/0	70	0.00
6	1730	W-10	30.31	35	0/0	0	0.00
7	1800	Calm	30.20	38	0/0	100	0.00
8	1830	NW-18	30.10	40	0/0	90	0.00
9	2000	NW-20	30.38	34	0/0	70	0.00
10	1900	Calm	30.56	38	0/0	0	0.00
11	1700	SW-8	30.60	35	0/light	70	0.00
12	1900	SW-20	30.10	46	0/0	100	0.00
13	1830	SW-15	29.88	57	0/0	100	0.00
14	1830	S-5	29.80	63	0/0	40	0.00
15	1800	NW-10	29.68	52	light/0	50	1.00
16	1830	NW-25	30.24	38	0/0	0	Trace
17	1800	Calm	30.28	36	0/0	0	0.00
18	1500	Calm	29.90	50	0/0	60	0.13
19	1830	E-5	30.12	47	light/0	100	0.00
20	1600	E-10	30.20	48	0/heavy	100	0.00
21	1700	SSW-25	30.00	59	0/0	100	0.25
22	-	-	-	-	-	-	-
23	2100	E-6	30.05	47	light/0	0	0.00
24	1900	SW-20	29.66	63	0/0	100	Trace
25	1600	N-18	29.90	43	0/light	100	1.00
26	1800	NE-10	29.87	49	0/0	100	0.06
27	1930	Calm	29.68	54	light/0	100	0.00
28	1830	NW-25	29.93	43	0/0	100	0.50
29	1830	S-5	29.79	34	0/0	0	0.00
30	1930	N-25	30.37	42	0/0	20	0.00
31							
Total							3.13
Ave	1802	12	30.07	45		62	0.11

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

NOVEMBER 1973

MONTH

DATE	TIME	WIND (dir-mpg)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1800	SW-20	E-1.00	30	2	E-0.14	49
2	1730	NW-10	NW-0.67	16	2	E-0.33	50
3	1730	N-10	S-1.00	16	2	0	49
4	1700	N-10	S-0.83	12	2	W-0.07	48
5	1800	W-18	SE-1.25	15	2	E-0.22	42
6	1730	W-10	SE-0.67	18	2	E-0.19	40
7	1800	Calm	Calm	0	0	E-0.06	40
8	1830	NW-18	SE-1.00	15	2	E-0.22	40
9	2000	NW-20	SE-1.25	15	2	E-0.42	37
10	1900	Calm	Calm	0	0	0	36
11	1700	SW-8	E-0.25	18	2	0	39
12	1900	SW-20	E-0.50	20	2	W-0.33	40
13	1830	SW-15	SE-0.50	20	2	W-0.18	43
14	1830	S-5	Calm	0	0	0	47
15	1800	NW-10	SE-0.50	18	2	0	50
16	1830	NW-25	SE-1.67	14	2	0	40
17	1800	Calm	Calm	0	0	0	41
18	1500	Calm	Calm	0	0	0	43
19	1830	E-5	Calm	0	0	W-0.31	44
20	1600	E-10	WSW-1.00	18	2	W-0.13	45
21	1700	SSW-25	E-0.50	12	2	W-0.17	47
22	-	-	-	-	-	-	-
23	2100	E-6	Calm	0	0	W-0.08	48
24	1900	SW-20	E-1.00	30	2	W-0.17	48
25	1600	N-18	S-2.00	14	2	0	49
26	1800	NE-10	SW-0.08	18	2	W-0.22	50
27	1930	Calm	Calm	0	0	0	50
28	1830	NW-25	SE-2.00	14	2	E-0.83	46
29	1830	S-5	Calm	0	0	W-0.11	42
30	1930	N-25	S-2.00	14	2	0	40
31							
Ave	1802	12	0.68	12	1	0.14	44

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

NOVEMBER 1973

MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.13	53	7.50	53	0.30	53
2	1.13	53	7.50	53	0.30	53
3	1.13	53	7.50	52	0.30	52
4	1.13	52	7.50	52	0.30	52
5	1.13	52	7.50	52	0.30	52
6	1.13	50	7.50	51	0.30	51
7	1.13	50	7.50	51	0.30	51
8	1.13	50	7.50	51	0.30	51
9	1.13	50	7.50	51	0.30	51
10	1.13	50	7.50	49	0.30	49
11	1.13	50	7.50	49	0.30	49
12	1.13	50	7.50	50	0.30	50
13	1.13	50	7.50	52	0.30	53
14	1.13	50	7.50	52	0.30	53
15	1.13	50	7.50	52	0.30	53
16	1.13	50	7.50	51	0.30	51
17	1.13	50	7.50	51	0.30	50
18	1.13	50	7.50	51	0.30	50
19	1.13	50	7.50	51	0.30	50
20	1.13	50	7.50	51	0.30	50
21	1.13	50	7.50	51	0.30	50
22	-	-	-	-	-	-
23	1.13	51	7.50	51	0.30	50
24	1.13	52	7.50	51	0.30	50
25	1.13	52	7.50	51	0.30	50
26	1.13	52	7.50	51	0.30	50
27	1.13	52	7.50	51	0.30	50
28	1.13	50	7.50	51	0.29	50
29	1.13	50	7.50	51	0.29	50
30	1.07	49	7.50	51	0.29	50
31						
Ave	1.13	51	7.50	51	0.30	51

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

NOVEMBER 1973

MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4	1.00	N	-16.10	48	1.67	N	-17.00	47
5								
6								
7								
8								
9								
10								
11	0.83	N	-16.20	37	1.25	N	-17.10	39
12								
13								
14								
15								
16								
17								
18	0.83	N	-16.10	41	1.25	N	-17.05	42
19								
20								
21								
22								
23								
24								
25	1.47	N	-14.80	49	2.08	N	-16.10	48
26								
27								
28								
29								
30								
31								
Ave	1.03	N	-15.80	44	1.57	N	-16.99	44

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

NOVEMBER 1973

MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.71	N	-10.30	49	1.25	N	-14.20	49
2	0.71	N	-8.75	50	0.83	N	-14.30	53
3	0.13	N	-7.90	48	0.83	N	-14.30	50
4	0.17	S	-8.10	48	0.83	N	-14.30	50
5	0.00	-	-8.90	42	0.83	N	-14.30	44
6	0.00	-	-9.10	40	0.83	N	-14.30	44
7	0.11	N	-8.60	40	0.83	N	-14.30	45
8	0.11	N	-9.10	42	0.83	N	-14.30	46
9	0.20	S	-9.00	39	0.83	N	-14.30	44
10	0.06	N	-8.40	38	0.83	N	-14.30	44
11	0.08	N	-8.95	38	0.83	N	-14.30	45
12	0.33	N	-9.20	42	0.83	N	-14.30	48
13	0.13	N	-8.60	47	0.83	N	-14.30	52
14	0.21	N	-8.40	53	0.83	N	-14.30	54
15	0.00	-	-8.20	56	1.00	N	-14.20	56
16	0.00	-	-8.20	46	0.83	N	-14.30	46
17	0.00	-	-8.30	44	0.83	N	-14.30	45
18	0.00	-	-8.40	41	0.83	N	-14.30	44
19	0.00	-	-8.10	45	0.83	N	-14.30	50
20	0.00	-	-7.70	46	0.83	N	-14.30	50
21	0.00	-	-8.80	49	0.83	N	-14.30	50
22	-	-	-	-	-	-	-	-
23	0.00	-	-8.15	48	0.83	N	-14.30	50
24	0.26	N	-9.10	53	0.83	N	-14.30	53
25	0.24	N	-7.50	49	1.67	N	-13.45	48
26	0.00	-	-7.80	49	1.67	N	-14.10	48
27	0.00	-	-8.20	52	1.11	N	-14.20	52
28	0.25	N	-8.80	48	1.67	N	-13.60	46
29	0.83	N	-9.20	43	1.67	N	-13.90	43
30	0.00	N	-8.80	43	0.83	N	-14.10	41
31								
Ave	1.56	N	-8.57	46	0.94	N	-14.24	48

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

NOVEMBER 1973

MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.38	N	-9.70	47	1.67	N	-11.55	48
2	0.00	-	-8.80	52	1.25	N	-11.80	54
3	0.00	-	-8.10	50	0.83	N	-11.75	48
4	0.00	-	-8.30	48	0.63	N	-11.80	48
5	0.00	-	-9.15	41	0.42	N	-11.80	40
6	0.00	-	-9.40	40	0.50	N	-11.80	38
7	0.21	N	-8.90	39	0.63	N	-11.80	39
8	0.22	N	-9.40	42	0.42	N	-11.85	42
9	0.00	-	-9.20	38	0.37	N	-11.85	36
10	0.00	-	-8.60	34	0.33	N	-11.85	34
11	0.08	N	-9.20	37	0.50	N	-11.85	38
12	0.21	N	-9.50	43	0.42	N	-11.85	42
13	0.12	N	-8.80	52	0.36	N	-11.85	50
14	0.11	N	-8.70	54	0.45	N	-11.85	54
15	0.00	-	-8.40	57	1.00	N	-11.75	56
16	0.00	-	-8.40	43	0.56	N	-11.80	41
17	0.00	-	-8.50	42	0.39	N	-11.85	38
18	0.42	N	-8.60	41	0.56	N	-11.80	42
19	0.00	-	-8.20	45	0.50	N	-11.85	46
20	0.00	-	-7.80	47	0.42	N	-11.85	47
21	0.14	N	-9.10	49	1.00	N	-11.70	50
22	-	-	-	-	-	-	-	-
23	0.33	S	-8.30	48	0.42	N	-11.85	47
24	0.17	N	-9.30	54	0.56	N	-11.70	53
25	0.00	-	-7.70	48	1.67	N	-11.10	50
26	0.00	-	-8.00	47	1.67	N	-11.60	48
27	0.00	-	-8.30	54	1.00	N	-11.65	53
28	0.36	N	-8.90	46	1.67	N	-11.00	45
29	0.56	N	-9.50	41	1.67	N	-11.35	43
30	0.42	S	-9.00	41	1.67	N	-11.55	43
31								
Ave	0.13	N	-8.75	46	0.81	N	-11.71	45

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE STREAM

NOVEMBER 1973
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4	1.67	N	-0.20	50	1.67	N	-10.90	48
5								
6								
7								
8								
9								
10								
11	1.67	N	-0.20	47	1.67	N	-10.95	45
12								
13								
14								
15								
16								
17								
18	1.67	N	-0.20	47	1.67	N	-10.95	49
19								
20								
21								
22								
23								
24								
25	2.50	N	-0.20	50	1.67	N	-10.80	48
26								
27								
28								
29								
30								
31								
Ave	1.88	N	-0.20	49	1.67	N	-10.90	48

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

DECEMBER 1973
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG and HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1800	Calm	30.55	35	0/0	10	0.00
2	1700	S-5	30.50	36	0/light	50	0.00
3	1900	S-8	29.95	56	0/0	70	0.00
4	1900	S-18	29.56	58	0/0	0	0.13
5	1930	WSW-15	29.88	38	0/0	100	0.13
6	2230	W-5	30.46	30	0/0	100	0.00
7	1830	N-0-5	30.54	37	0/0	100	0.00
8	2100	ENE-5	30.36	37	0/light	30	0.00
9	1700	SW-5	30.05	38	0/0	100	0.00
10	1830	W-18	30.01	24	0/0	100	0.00
11	1830	Calm	30.26	22	0/0	90	0.00
12	1930	Calm	29.92	32	0/0	0	0.00
13	1830	NE-25-30	29.48	36	0/0	100	0.63
14	1900	NE-10	30.12	28	0/0	100	0.00
15	1700	NE-20	30.13	23	0/0	100	0.00
16	1600	NNE-15	30.32	21	0/0	100	0.00
17	1830	NNE-12	30.22	23	0/0	70	0.00
18	2000	Calm	30.50	25	0/0	100	0.00
19	1830	E-8	30.20	30	0/0	100	0.00
20	1800	NNW-12	30.00	29	0/0	100	0.00
21	1830	NW-12	30.26	24	0/0	90	0.00
22	1800	SW-20	30.02	28	0/0	100	0.00
23	1700	Calm	30.28	30	0/heavy	100	0.00
24	1600	E-8	30.02	37	0/heavy	100	0.00
25	1500	S-25	30.00	51	0/light	100	0.63
26	1800	ENE-25	29.60	38	0/light	100	0.50
27	1800	SW-12	29.95	36	0/0	100	0.25
28	1800	SW-5	30.05	37	0/light	100	0.00
29	1700	NW-12	29.78	33	0/0	100	0.13
30	1500	Calm	30.22	25	0/light	100	0.00
31	1800	N-10	30.10	20	0/light	100	0.00
Total							2.40
Ave	1806	10	30.11	33		84	0.07

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

DECEMBER 1973
MONTH

DATE	TIME	WIND (dir-mpg)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1800	Calm	Calm	0	0	W-0.11	40
2	1700	S-5	Calm	0	0	W-0.05	40
3	1900	S-8	Calm	0	0	0	43
4	1900	S-18	Calm	0	0	E-0.08	46
5	1930	WSW-15	E-1.00	16	2	0	42
6	2230	W-5	SE-0.83	20	2	E-0.17	35
7	1830	N-0-5	Calm	0	0	0	36
8	2100	ENE-5	Calm	0	0	W-0.06	37
9	1700	SW-5	Calm	0	0	E-0.07	38
10	1830	W-18	E-1.00	25	2	0	32
11	1830	Calm	Calm	0	0	0	32
12	1930	Calm	Calm	0	0	Ice	32
13	1830	NE-25-30	Ice	0	0	Ice	32
14	1900	NE-10	Ice	0	0	Ice	32
15	1700	NE-20	Ice	0	0	Ice	32
16	1600	NNE-15	Ice	0	0	Ice	32
17	1830	NNE-12	Ice	0	0	Ice	32
18	2000	Calm	Ice	0	0	Ice	32
19	1830	E-8	Ice	0	0	Ice	32
20	1800	NNW-12	Ice	0	0	Ice	32
21	1830	NW-12	Ice	0	0	Ice	32
22	1800	SW-20	Ice	0	0	Ice	32
23	1700	Calm	Ice	0	0	Ice	32
24	1600	E-8	Ice	0	0	Ice	32
25	1500	S-25	Ice	0	0	Ice	33
26	1800	ENE-25	Ice	0	0	Ice	32
27	1800	SW-12	Ice	0	0	Ice	32
28	1800	SW-5	Ice	0	0	Ice	33
29	1700	NW-12	Ice	0	0	Ice	32
30	1500	Calm	Ice	0	0	Ice	32
31	1800	N-10	Ice	0	0	Ice	32
Ave	1806	0.10	0.09	2	0.19	0.07	34

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

DECEMBER 1973
MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE		
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)
1	1800	Calm	40	0.00	0	0	0	0
2	1700	S-5	40	0.00	0	0	0	0
3	1900	S-8	43	0.00	0	0	0	0
4	1900	S-18	46	0.00	0	0	0	0
5	1930	WSW-15	42	Flurries	0	0	0	0
6	2230	W-5	35	0.00	0	Chips	Chips	0
7	1830	N-0-5	36	Flurries	0	0	0	0
8	2100	ENE-5	37	0.00	0	0	0	0
9	1700	SW-5	38	0.00	0	0	0	0
10	1830	W-18	32	0.33	-	0	0	0
11	1830	Calm	32	0.33	-	0	0	0
12	1930	Calm	32	0.00	-	10	0	-
13	1830	NE-25-30	32	0.00	-	30	10	-
14	1900	NE-10	32	0.33	-	50	40	-
15	1700	NE-20	32	0.50	-	100	75	-
16	1600	NNE-15	32	0.00	-	100	100	-
17	1830	NNE-12	32	Trace	-	100	100	-
18	2000	Calm	32	0.00	-	100	100	-
19	1830	E-8	32	2.50	-	100	100	-
20	1800	NNW-12	32	4.00	-	100	100	-
21	1830	NW-12	32	0.00	-	100	100	-
22	1800	SW-20	32	0.00	-	100	100	-
23	1700	Calm	32	0.00	-	100	100	-
24	1600	E-8	32	0.00	-	100	100	-
25	1500	S-25	33	0.00	-	100	100	-
26	1800	ENE-25	32	0.00	-	100	100	-
27	1800	SW-12	32	0.00	-	100	100	-
28	1800	SW-5	33	0.00	-	100	100	-
29	1700	NW-12	32	0.50	-	100	100	-
30	1500	Calm	32	0.00	-	100	100	-
31	1800	N-10	32	4.00	-	100	100	-
Total				12.49				
Ave	1806	10	34	0.40		58	56	-

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

DECEMBER 1973
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.09	49	7.50	51	0.29	51
2	1.09	49	7.50	51	0.29	51
3	1.09	49	7.50	51	0.29	50
4	1.09	49	7.50	50	0.29	50
5	1.09	49	7.50	50	0.29	50
6	1.09	49	7.50	50	0.29	50
7	1.09	49	7.50	50	0.29	50
8	1.09	48	7.50	50	0.29	50
9	1.09	50	7.50	50	0.29	51
10	1.09	48	6.66	50	0.29	50
11	1.09	48	6.66	50	0.29	49
12	1.09	48	6.66	50	0.28	49
13	1.09	48	6.66	50	0.28	49
14	1.09	48	6.66	49	0.28	48
15	1.09	47	6.66	49	0.29	47
16	1.09	46	6.66	48	0.28	46
17	1.09	45	6.66	48	0.29	46
18	1.09	45	6.66	48	0.29	46
19	1.09	46	6.66	49	0.29	46
20	1.09	46	-	-	0.29	47
21	1.09	46	-	-	0.29	47
22	1.09	47	-	-	0.29	47
23	1.09	48	-	-	0.29	47
24	1.09	48	-	-	0.29	47
25	1.09	48	6.66	50	0.29	50
26	1.05	48	6.66	50	0.29	50
27	1.05	48	6.66	50	0.29	50
28	1.05	48	6.66	50	0.29	50
29	1.05	48	6.66	49	0.29	50
30	1.05	48	6.66	48	0.29	48
31	1.09	49	6.66	51	0.29	51
Ave	1.08	48	6.95	50	0.29	49

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

DECEMBER 1973

MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	1.09	N	-16.00	40	2.08	N	-17.00	41
3								
4								
5								
6								
7								
8								
9	0.83	N	-16.10	40	1.00	N	-17.00	38
10								
11								
12								
13								
14								
15								
16	1.00	N	-16.00	32	1.67	N	-17.00	32
17								
18								
19								
20								
21								
22								
23	1.25	N	-16.10	32	1.67	N	-17.05	32
24								
25								
26								
27								
28								
29								
30	2.08	N	-15.30	32	1.67	N	-16.50	32
31								
Ave	1.25	N	-15.90	35	1.62	N	-16.91	35

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

DECEMBER 1973
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.13	N	-7.70	40	0.83	N	-14.25	43
2	0.00	-	-8.20	41	0.83	N	-14.30	44
3	0.20	N	-8.60	45	0.83	N	-14.30	49
4	0.25	N	-8.00	48	0.83	N	-14.30	50
5	0.28	N	-9.30	44	0.83	N	-14.30	44
6	0.00	N	-9.20	36	0.83	N	-14.30	40
7	0.00	-	-7.75	36	0.83	N	-14.30	42
8	0.00	-	-7.85	36	0.83	N	-14.30	43
9	0.17	N	-8.40	38	0.83	N	-14.30	45
10	0.00	-	-10.20	34	0.83	N	-14.30	38
11	0.00	-	-8.60	32	0.83	N	-14.30	39
12	Ice	-	-8.25	32	0.83	N	-14.30	41
13	Ice	-	-8.00	36	1.25	N	-14.10	38
14	0.00	-	-7.70	34	1.25	N	-14.05	38
15	0.06	S	-7.80	32	0.83	N	-14.30	35
16	0.17	S	-7.70	33	0.83	N	-14.30	35
17	Ice	-	-7.80	33	0.83	N	-14.30	36
18	Ice	-	-8.10	33	0.83	N	-14.30	35
19	Ice	-	-7.60	32	0.83	N	-14.30	38
20	Ice	-	-7.80	32	0.83	N	-14.30	36
21	Ice	-	-8.10	32	0.83	N	-14.30	34
22	Ice	-	-9.10	32	0.83	N	-14.30	38
23	Ice	-	-8.05	32	0.83	N	-14.30	38
24	Ice	-	-7.70	32	0.83	N	-14.30	39
25	Ice	-	-8.00	35	2.50	N	-12.60	34
26	0.83	N	-7.40	37	3.12	N	-12.30	38
27	1.00	N	-8.00	38	2.50	N	-12.40	38
28	0.56	N	-8.00	37	3.33	N	-13.50	37
29	0.33	N	-7.80	37	2.08	N	-13.60	37
30	0.20	N	-8.50	32	2.50	N	-13.80	34
31	Ice	-	-7.75	33	2.08	N	-14.00	34
Ave	0.13	N	-8.16	36	1.25	N	-14.03	39

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

DECEMBER 1973
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.90	39	1.00	N	-11.60	39
2	0.00	-	-8.50	41	1.25	N	-11.65	41
3	1.13	N	-8.90	48	1.25	N	-11.70	45
4	0.25	N	-8.30	50	1.25	N	-11.60	51
5	0.22	N	-9.50	41	1.00	N	-11.65	42
6	0.11	S	-9.50	33	1.25	N	-11.75	34
7	0.00	-	-8.05	35	1.11	N	-11.75	35
8	0.00	-	-8.15	37	0.83	N	-11.75	36
9	0.14	N	-8.70	38	1.00	N	-11.75	38
10	0.22	N	-10.50	32	0.63	N	-11.75	33
11	Ice	-	-8.90	32	0.63	N	-11.75	32
12	Ice	-	-8.55	32	0.71	N	-11.80	32
13	Ice	-	-8.30	33	1.67	N	-11.50	33
14	0.08	N	-8.00	33	1.25	N	-11.50	33
15	0.07	S	-8.10	32	1.43	N	-11.50	32
16	Ice	-	-8.00	33	1.43	N	-11.60	32
17	0.00	-	-8.10	32	1.00	N	-11.60	32
18	Ice	-	-8.40	32	0.83	N	-11.70	30
19	Ice	-	-7.90	32	0.83	N	-11.70	32
20	Ice	-	-8.10	32	0.83	N	-11.70	32
21	Ice	-	-8.30	32	0.71	N	-11.75	32
22	Ice	-	-9.40	32	0.56	N	-11.75	34
23	Ice	-	-8.30	32	0.56	N	-11.75	34
24	Ice	-	-8.00	32	0.63	N	-11.75	33
25	Ice	-	-8.10	33	3.12	N	-9.40	33
26	0.56	N	-7.70	38	2.08	N	-10.00	38
27	0.83	N	-8.35	39	3.12	N	-10.20	39
28	0.28	N	-8.30	38	2.08	N	-10.80	37
29	0.22	N	-8.10	37	2.08	N	-10.80	38
30	0.40	N	-8.70	32	2.08	N	-11.10	33
31	Ice	-	-8.05	33	1.67	N	-11.40	34
Ave	0.15	N	-8.44	35	1.29	N	-11.42	35

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE STREAM

DECEMBER 1973
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2	2.08	N	-0.20	50	1.67	N	-10.90	49
3								
4								
5								
6								
7								
8								
9	2.50	N	-0.20	50	1.25	N	-10.95	46
10								
11								
12								
13								
14								
15								
16	1.67	N	-0.22	41	1.39	N	-10.90	39
17								
18								
19								
20								
21								
22								
23	-	-	-	-	1.67	N	-10.95	42
24								
25								
26								
27								
28								
29								
30	2.08	N	-0.22	46	1.67	N	-10.70	38
31								
Ave	2.08	N	-0.21	47	1.53	N	-10.88	43

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

JANUARY 1974

MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG and HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1630	W-3	30.57	17	6	100	0.00
2	1700	Calm	30.60	17	6	100	0.00
3	1900	N-8	30.34	24	8	100	0.00
4	1800	Calm	30.42	10	6	0	0.00
5	1800	Calm	30.24	22	6	100	0.00
6	1700	W-5	30.01	25	6	100	0.00
7	1800	WSW-15	30.30	12	6	0	0.00
8	1830	E-5	30.32	20	6	100	0.00
9	1830	Calm	30.36	20	6	100	0.00
10	1830	NE-10	30.05	30	6	100	0.00
11	1900	Calm	30.26	25	6	100	0.00
12	1800	SW-5	30.70	8	6	30	0.00
13	1700	S-8	30.60	20	8	100	0.00
14	1830	SW-20	30.12	36	6	60	0.00
15	2100	SW-5	30.08	34	8	0	0.00
16	1830	WSW-10	29.95	40	6	60	0.00
17	1900	NE-18	30.30	29	8	100	0.00
18	1900	Calm	30.20	34	3	100	0.13
19	1800	NE-15	30.18	34	8	100	0.13
20	1730	S-10	29.70	58	6	100	Trace
21	1800	W-18	30.05	39	6	100	0.25
22	1800	SE-5	29.91	44	5	100	0.06
23	1830	WNW-15	30.26	34	6	80	0.13
24	1800	SW-0-5	30.30	37	6	30	0.00
25	1830	Calm	30.32	38	6	10	0.00
26	1700	SSE-8	29.76	51	6	100	0.00
27	1700	W-15	30.06	41	6	95	0.25
28	1800	NE-12	29.76	35	3	100	0.50
29	1800	SW-0-5	30.02	42	8	80	0.13
30	1800	SSW-10	29.90	51	6	10	0.00
31	1900	W-18	30.19	30	8	5	0.00
Total							1.58
Ave	1809	8	30.19	31	6	73	0.05

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

JANUARY 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1630	W-3	Ice	0	0	Ice	32
2	1700	Calm	Ice	0	0	Ice	32
3	1900	N-8	Ice	0	0	Ice	32
4	1800	Calm	Ice	0	0	Ice	32
5	1800	Calm	Ice	0	0	Ice	32
6	1700	W-5	Ice	0	0	Ice	32
7	1800	WSW-15	Ice	0	0	Ice	32
8	1830	E-5	Ice	0	0	Ice	32
9	1830	Calm	Ice	0	0	Ice	-
10	1830	NE-10	Ice	0	0	Ice	32
11	1900	Calm	Ice	0	0	Ice	32
12	1800	SW-5	Ice	0	0	Ice	32
13	1700	S-8	Ice	0	0	Ice	32
14	1830	SW-20	Ice	0	0	Ice	32
15	2100	SW-5	Ice	0	0	Ice	32
16	1830	WSW-10	Ice	0	0	Ice	32
17	1900	NE-18	Ice	0	0	Ice	32
18	1900	Calm	Ice	0	0	Ice	32
19	1800	NE-15	Ice	0	0	Ice	32
20	1730	S-10	Ice	0	0	Ice	32
21	1800	W-18	Ice	0	0	Ice	32
22	1800	SE-5	Ice	0	0	Ice	33
23	1830	WNW-15	SE-1.00	20	2	Ice	34
24	1800	SW-0-5	Calm	0	0	Ice	34
25	1830	Calm	Calm	0	0	Ice	33
26	1700	SSE-8	Calm	0	0	Ice	36
27	1700	W-15	SE-1.00	16	2	E-0.40	41
28	1800	NE-12	SW-1.00	25	2	W-1.00	39
29	1800	SW-0-5	Calm	0	0	E-0.28	40
30	1800	SSW-10	NE-0.50	8	1	0	40
31	1900	W-18	SE-1.00	30	2	E-0.25	36
Ave	1809	8	0.01	3	0.29	0.06	32

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

JANUARY 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.05	49	6.66	50	0.29	48
2	1.05	50	6.66	50	0.29	48
3	1.05	50	6.66	51	0.29	49
4	1.05	50	6.66	50	0.29	49
5	1.05	50	6.66	48	0.29	49
6	1.05	50	6.66	48	0.29	49
7	1.05	50	6.66	48	0.29	49
8	1.05	50	6.66	49	0.29	49
9	1.05	50	6.66	51	0.29	49
10	1.05	50	-	-	0.29	48
11	1.05	50	-	-	0.29	48
12	1.05	50	-	-	0.29	47
13	1.05	50	-	-	0.29	47
14	1.03	50	-	-	0.29	48
15	1.03	50	6.66	50	0.29	49
16	1.03	50	6.66	50	0.29	49
17	1.03	50	6.66	49	0.29	49
18	1.03	50	6.66	49	0.29	50
19	1.03	50	6.66	49	0.29	51
20	1.03	50	6.66	49	0.29	51
21	1.03	50	6.66	51	0.29	52
22	1.03	50	6.66	51	0.29	52
23	1.03	50	6.66	51	0.29	52
24	1.03	51	6.66	50	0.29	51
25	1.02	50	6.66	51	0.29	50
26	1.02	50	6.66	51	0.29	51
27	1.02	51	6.66	51	0.29	51
28	1.02	51	6.66	51	0.29	51
29	1.02	51	6.66	51	0.29	51
30	1.03	51	6.66	51	0.29	51
31	1.03	51	6.66	50	0.29	51
Ave	1.04	50	6.66	50	0.29	50

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

JANUARY 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6	1.25	N	-15.85	33	1.67	N	-16.75	32
7								
8								
9								
10								
11								
12								
13	Ice	-	-15.90	32	Ice	-	-16.70	32
14								
15								
16								
17								
18								
19								
20	3.12	N	-10.65	40	4.17	N	-12.25	41
21								
22								
23								
24								
25								
26								
27	2.27	N	-13.70	44	2.50	N	-15.20	44
28								
29								
30								
31								
Ave	2.21	N	-14.00	37	2.78	N	-15.23	37

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

JANUARY 1974

MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	Ice	-	-8.40	32	2.08	N	-14.10	34
2	Ice	-	-8.10	32	1.25	N	-14.20	33
3	Ice	-	-8.00	32	1.25	N	-14.20	34
4	Ice	-	-8.00	32	1.25	N	-14.20	33
5	Ice	-	-8.10	32	1.25	N	-14.20	33
6	Ice	-	-8.00	32	1.25	N	-14.25	35
7	Ice	-	-9.20	32	0.83	N	-14.30	33
8	Ice	-	-8.00	32	0.83	N	-14.30	35
9	Ice	-	-8.00	32	0.83	N	-14.30	38
10	Ice	-	-7.80	32	0.83	N	-14.30	37
11	Ice	-	-8.30	32	1.22	N	-11.65	32
12	Ice	-	-8.20	32	0.83	N	-14.30	35
13	Ice	-	-8.10	32	0.83	N	-14.30	38
14	Ice	-	-8.70	32	0.83	N	-14.30	38
15	Ice	-	-8.60	32	1.67	N	-13.95	35
16	Ice	-	-8.30	34	2.50	N	-12.80	34
17	Ice	-	-7.10	33	2.50	N	-13.00	34
18	0.50	N	-7.90	34	2.08	N	-13.30	35
19	1.67	N	-7.40	36	2.50	N	-10.90	36
20	2.50	N	-6.70	41	3.12	N	- 8.75	42
21	1.67	N	-7.90	40	2.50	N	-11.20	40
22	0.71	N	-7.65	40	2.78	N	-13.00	41
23	0.71	N	-7.90	40	2.50	N	-12.75	40
24	0.38	N	-8.10	38	2.08	N	-13.55	38
25	0.36	N	-8.15	39	2.08	N	-13.80	39
26	0.18	N	-7.65	39	1.92	N	-13.80	42
27	0.71	N	-8.60	43	2.50	N	-12.80	44
28	0.00	-	-7.35	39	3.12	N	-13.40	39
29	1.00	N	-7.50	40	2.50	N	-12.55	40
30	0.67	N	-7.55	41	2.27	N	-13.30	44
31	0.50	N	-9.20	41	2.50	N	-13.70	38
Ave	0.37	N	-8.01	35	1.82	N	-13.33	37

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

JANUARY 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	Ice	-	-8.70	33	1.67	N	-11.50	32
2	Ice	-	-8.40	32	1.25	N	-11.50	32
3	Ice	-	-8.30	32	1.25	N	-11.50	32
4	Ice	-	-8.30	32	1.33	N	-11.50	32
5	Ice	-	-8.40	32	1.39	N	-11.60	32
6	Ice	-	-8.30	32	1.25	N	-11.60	32
7	Ice	-	-9.30	32	1.14	N	-11.65	32
8	Ice	-	-8.30	32	1.25	N	-11.65	32
9	Ice	-	-8.30	32	1.25	N	-11.60	32
10	Ice	-	-8.10	32	1.00	N	-11.65	32
11	Ice	-	-8.60	32	0.83	N	-14.30	38
12	Ice	-	-8.50	32	1.22	N	-11.70	32
13	Ice	-	-8.40	32	1.00	N	-11.70	32
14	Ice	-	-8.90	32	1.00	N	-11.70	32
15	Ice	-	-8.80	32	2.50	N	-11.20	32
16	Ice	-	-8.10	33	2.50	N	-10.30	33
17	Ice	-	-7.35	33	2.08	N	-10.70	36
18	0.45	N	-8.10	34	3.12	N	-10.80	37
19	1.00	N	-7.90	37	2.50	N	-9.90	37
20	2.08	N	-7.40	41	3.57	N	-9.00	42
21	1.67	N	-8.50	40	2.50	N	-10.00	40
22	0.45	N	-7.95	41	2.08	N	-10.70	41
23	0.50	N	-8.30	39	2.08	N	-10.65	39
24	0.26	N	-8.40	40	1.92	N	-11.00	40
25	0.28	N	-8.40	40	1.92	N	-11.20	41
26	0.24	N	-8.00	40	2.08	N	-11.20	43
27	0.63	N	-8.90	44	2.50	N	-10.70	44
28	0.00	-	-7.60	40	2.50	N	-10.90	38
29	0.56	N	-7.90	41	1.79	N	-10.50	42
30	0.38	N	-7.90	44	2.50	N	-10.90	45
31	0.63	N	-9.40	40	1.67	N	-11.20	36
Ave	0.29	N	-8.32	36	1.83	N	-11.16	36

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE STREAM

JANUARY 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6	2.50	N	-0.22	42	1.67	N	-10.90	39
7								
8								
9								
10								
11								
12								
13	-	-	-	-	2.50	N	-11.00	38
14								
15								
16								
17								
18								
19								
20	2.50	N	-0.22	50	2.50	N	-8.05	43
21								
22								
23								
24								
25								
26								
27	3.12	N	-0.20	49	2.50	N	-10.30	44
28								
29								
30								
31								
Ave	2.71	N	-0.21	47	2.29	N	-10.06	41

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

JANUARY 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE		
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)
								shore off
1	1630	W-3	32	1.00	5.00	100	100	-
2	1700	Calm	32	0.00	5.00	100	100	-
3	1900	N-8	32	0.00	4.50	100	100	-
4	1800	Calm	32	0.00	4.00	100	100	-
5	1800	Calm	32	0.00	4.00	100	100	7.0 4.0
6	1700	W-5	32	0.00	4.00	100	100	-
7	1800	WSW-15	32	0.00	4.00	100	100	-
8	1830	E-5	32	0.00	4.00	100	100	-
9	1830	Calm	-	3.00	7.00	100	100	-
10	1830	NE-10	32	2.00	8.00	100	100	-
11	1900	Calm	32	0.00	7.50	100	100	-
12	1800	SW-5	32	0.00	7.00	100	100	10.5 7.5
13	1700	S-8	32	0.00	7.00	100	100	-
14	1830	SW-20	32	0.00	5.50	100	100	-
15	2100	SW-5	32	0.00	5.00	100	100	-
16	1830	WSW-10	32	0.00	0.00-3.00	100	100	-
17	1900	NE-18	32	0.00	0.00-2.00	100	100	-
18	1900	Calm	32	0.00	0.00-1.00	100	100	-
19	1800	NE-15	32	0.00	0.00-1.00	100	100	9.0 7.0
20	1730	S-10	32	0.00	0.00	100	100	-
21	1800	W-18	32	0.00	0.00	100	95	-
22	1800	SE-5	33	0.00	0.00	100	90	-
23	1830	WNW-15	34	0.00	0.00	10	50	-
24	1800	SW-0-5	34	0.00	0.00	10	10	-
25	1830	Calm	33	0.00	0.00	1	5	-
26	1700	SSE-8	36	0.00	0.00	0	0	0
27	1700	W-15	41	0.00	0.00	0	0	0
28	1800	NE-12	39	0.00	0.00	0	0	0
29	1800	SW-0-5	40	0.00	0.00	0	0	0
30	1800	SSW-10	40	0.00	0.00	0	0	0
31	1900	W-18	36	0.00	0.00	0	0	0
Total				6.00				
Ave	1809	8	32	0.19	2.77	70	73	

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

FEBRUARY 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1800	NE-15	30.00	29	6	100	0.00
2	1600	NE-30-35	29.90	28	5	100	0.00
3	1800	ENE-8	30.07	23	6	100	0.00
4	1830	N-12	30.32	18	8	70	0.00
5	1900	ESE-5	30.36	20	6	100	0.00
6	1800	NNE-25	29.90	27	5	100	0.00
7	1900	Calm	30.20	21	6	50	0.00
8	1800	Calm	30.00	19	5	90	0.00
9	1800	W-5-8	30.10	20	6	70	0.00
10	1700	SW-25-30	29.80	32	4	100	0.00
11	1800	SW-25	30.11	25	6	100	0.00
12	1800	S-8	29.83	42	6	20	0.00
13	1800	NE-5	29.88	34	3	100	0.00
14	1830	NE-20	30.32	20	8	10	0.00
15	2230	E-5	30.28	22	8	0	0.00
16	1800	SW-0-5	29.92	34	6	30	0.00
17	1630	NW-0-5	30.02	33	8	5	0.00
18	1800	S-10	29.70	41	6	100	Trace
19	1900	NW-0-5	29.40	36	5	100	0.30
20	1800	W-0-5	30.16	42	8	0	0.00
21	1800	SE-10	29.88	51	7	80	0.00
22	1830	NW-35-40	29.32	36	4	100	0.40
23	1700	WNW-8	30.30	28	7	95	0.00
24	1700	NE-35	30.16	25	4	100	0.00
25	1830	Calm	30.36	21	6	0	0.00
26	1900	WSW-5-10	30.41	30	7	0	0.00
27	1830	S-10	30.10	44	8	80	0.00
28	1800	W-8	29.86	50	6	30	0.10
29							
30							
31							
Total							0.80
Ave	1811	13	30.02	30	6	65	0.03

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

FEBRUARY 1974
MONTH

DATE	TIME	WIND (dir-mpH)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1800	NE-15	SW-1.50	18	2	0	36
2	1600	NE-30-35	SW-3.00	40	2	W-0.67	33
3	1800	ENE-8	Ice	-	-	Ice	32
4	1830	N-12	Ice	-	-	Ice	32
5	1900	ESE-5	Ice	-	-	Ice	32
6	1800	NNE-25	Ice	-	-	Ice	32
7	1900	Calm	Ice	-	-	Ice	32
8	1800	Calm	Ice	-	-	Ice	32
9	1800	W-5-8	Ice	-	-	Ice	32
10	1700	SW-25-30	Ice	-	-	Ice	32
11	1800	SW-25	Ice	-	-	Ice	32
12	1800	S-8	Ice	-	-	Ice	32
13	1800	NE-5	Ice	-	-	Ice	32
14	1830	NE-20	Ice	-	-	Ice	32
15	2230	E-5	Ice	-	-	Ice	32
16	1800	SW-0-5	Ice	-	-	Ice	32
17	1630	NW-0-5	Ice	-	-	Ice	32
18	1800	S-10	Ice	-	-	Ice	32
19	1900	NW-0-5	Ice	-	-	Ice	32
20	1800	W-0-5	Ice	-	-	Ice	32
21	1800	SE-10	Ice	-	-	Ice	32
22	1830	NW-35-40	SE-2.50	25	2	E-0.40	34
23	1700	WNW-8	SE-1.00	18	2	E-0.32	33
24	1700	NE-35	Ice	-	-	Ice	32
25	1830	Calm	Ice	-	-	Ice	32
26	1900	WSW-5-10	Ice	-	-	Ice	32
27	1830	S-10	Ice	-	-	Ice	32
28	1800	W-8	5" swells	-	-	E-0.26	33
29							
30							
31							
Ave	1811	13	0.30	3	0.28	0.06	32

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

FEBRUARY 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE			
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)	
1	1800	NE-15	36	0.25	0.25	0	0	0.00	0.00
2	1600	NE-30-35	33	2.00	2.00	0	0	0.00	0.00
3	1800	ENE-8	32	0.00	2.00	70	50	0.75	-
4	1830	N-12	32	3.00	3.50	100	100	-	-
5	1900	ESE-5	32	0.00	2.50	100	100	-	-
6	1800	NNE-25	32	3.00	5.00	100	100	-	-
7	1900	Calm	32	1.00	6.00	100	100	3.00	3.00
8	1800	Calm	32	0.00	6.00	100	100	-	-
9	1800	W-5-8	32	0.00	5.75	100	100	4.50	3.50
10	1700	SW-25-30	32	1.50	7.00	100	100	-	-
11	1800	SW-25	32	0.50	7.00	100	100	-	-
12	1800	S-8	32	0.00	3.00	100	100	-	-
13	1800	NE-5	32	0.00	0.00-2.00	100	100	-	-
14	1830	NE-20	32	0.00	0.00-2.00	100	100	5.50	5.50
15	2230	E-5	32	0.00	0.00-2.00	100	100	-	-
16	1800	SW-0-5	32	0.00	0.00-2.00	100	100	5.50	5.50
17	1630	NW-0-5	32	0.00	0.00-2.00	100	100	-	-
18	1800	S-10	32	0.00	0.00	100	100	-	-
19	1900	NW-0-5	32	0.00	0.00	100	100	5.00	5.00
20	1800	W-0-5	32	0.00	0.00	100	100	-	-
21	1800	SE-10	32	0.00	0.00	100	100	5.00	-
22	1830	NW-35-40	34	0.00	0.00	-	-	-	-
23	1700	WNW-8	33	Trace	Trace	5	10	-	-
24	1700	NE-35	32	Trace	Trace	95	90	-	-
25	1830	Calm	32	1.00	0.75	100	100	1.50	-
26	1900	WSW-5-10	32	0.00	0.00-0.50	100	100	-	-
27	1830	S-10	32	0.00	0.00	70	95	1.50	open
28	1800	W-8	33	0.00	0.00	20	60	-	-
29									
30									
31									
Total				12.25					
Ave	1811	13	32	0.44	2.00	81	82		

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

FEBRUARY 1974

MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.02	51	6.66	50	0.29	51
2	1.02	50	6.66	50	0.29	49
3	1.05	49	6.66	50	0.29	49
4	1.03	49	6.66	49	0.29	49
5	1.03	49	6.66	50	0.29	48
6	1.03	49	6.66	50	0.29	48
7	1.03	50	6.66	50	0.29	48
8	1.03	49	6.66	51	0.29	48
9	1.03	50	6.66	51	0.29	49
10	1.03	50	6.66	50	0.29	49
11	1.03	50	6.66	51	0.29	48
12	1.03	51	6.66	51	0.29	50
13	1.03	51	6.66	51	0.29	50
14	1.03	50	6.66	51	0.29	49
15	1.03	50	6.66	51	0.29	48
16	1.03	50	6.66	51	0.29	48
17	1.03	50	6.66	51	0.29	49
18	1.03	50	6.66	52	0.29	49
19	1.03	51	6.66	52	0.29	49
20	1.03	51	6.66	52	0.29	49
21	1.03	51	6.66	52	0.29	49
22	1.03	51	6.66	51	0.29	49
23	1.03	51	6.66	51	0.29	49
24	1.03	50	6.66	51	0.29	48
25	1.03	50	6.66	51	0.29	48
26	1.03	50	6.66	50	0.29	48
27	1.03	50	6.66	50	0.29	49
28	1.03	50	6.66	50	0.29	49
29						
30						
31						
Ave	1.03	50	6.66	51	0.29	49

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

FEBRUARY 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	1.67	N	-15.60	34	1.67	N	-16.70	34
4								
5								
6								
7								
8								
9								
10	Ice Cover	-	-15.65	32	Ice Cover	-	-16.55	32
11								
12								
13								
14								
15								
16								
17	1.57	N	-15.70	37	1.92	N	-16.75	37
18								
19								
20								
21								
22								
23								
24	1.92	N	-15.40	33	2.08	N	-16.60	34
25								
26								
27								
28								
29								
30								
31								
Ave	1.29	N	-15.59	34	1.42	N	-16.65	34

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

FEBRUARY 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.10	33	1.67	N	-14.00	34
2	0.00	-	-5.70	33	1.67	N	-14.00	34
3	Ice	-	-7.20	33	1.92	N	-14.00	35
4	Ice	-	-7.35	33	1.92	N	-14.10	34
5	Ice	-	-7.50	32	2.08	N	-14.10	33
6	Ice	-	-7.10	32	1.67	N	-14.15	33
7	Ice	-	-7.50	32	1.43	N	-14.20	34
8	Ice	-	-7.70	32	1.82	N	-14.20	34
9	Ice	-	-7.60	32	1.25	N	-14.20	36
10	Ice	-	-8.00	32	1.67	N	-14.20	35
11	Ice	-	-8.25	32	1.25	N	-14.20	34
12	Ice	-	-7.60	32	1.39	N	-14.20	38
13	Ice	-	-7.55	32	2.78	N	-13.85	36
14	Ice	-	-7.25	32	2.50	N	-13.60	33
15	Ice	-	-7.45	32	2.08	N	-13.95	33
16	Ice	-	-7.85	32	1.67	N	-14.00	35
17	Ice	-	-7.85	32	1.19	N	-14.10	38
18	Ice	-	-7.50	33	1.67	N	-14.10	37
19	Ice	-	-7.50	35	2.50	N	-12.10	35
20	0.53	N	-7.70	38	2.50	N	-13.20	40
21	0.17	N	-7.40	40	2.50	N	-11.50	42
22	1.47	N	-8.30	40	2.50	N	-11.40	40
23	0.36	N	-7.95	35	2.22	N	-13.50	37
24	0.00	-	-6.95	34	1.92	N	-13.85	34
25	Ice	-	-7.60	33	2.08	N	-13.90	34
26	Ice	-	-7.70	32	2.27	N	-13.95	34
27	Ice	-	-7.85	33	1.92	N	-14.00	38
28	0.32	N	-7.90	39	2.78	N	-13.90	42
29								
30								
31								
Ave	0.10	N	-7.53	34	1.96	N	-13.02	36

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

FEBRUARY 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.40	33	1.33	N	-11.40	33
2	0.00	-	-6.00	33	1.25	N	-11.40	32
3	Ice	-	-7.50	33	1.39	N	-11.45	35
4	Ice	-	-7.65	33	1.25	N	-11.55	33
5	Ice	-	-7.70	32	1.39	N	-11.60	32
6	Ice	-	-7.40	32	1.25	N	-11.60	32
7	Ice	-	-7.80	32	1.14	N	-11.60	32
8	Ice	-	-8.00	32	1.25	N	-11.60	31
9	Ice	-	-7.90	32	1.14	N	-11.60	32
10	Ice	-	-8.25	32	1.25	N	-11.65	32
11	Ice	-	-8.45	32	1.25	N	-11.65	32
12	Ice	-	-7.90	32	1.52	N	-11.60	33
13	Ice	-	-7.80	32	2.50	N	-10.95	33
14	Ice	-	-7.55	32	1.57	N	-11.20	32
15	Ice	-	-7.70	32	1.14	N	-11.30	32
16	Ice	-	-8.10	32	1.67	N	-11.40	35
17	Ice	-	-8.15	33	1.57	N	-11.50	39
18	Ice	-	-7.75	33	1.67	N	-11.50	38
19	Ice	-	-7.75	35	3.03	N	-10.50	37
20	0.45	N	-8.00	42	2.50	N	-10.90	42
21	0.23	N	-7.70	44	2.27	N	-11.00	44
22	1.25	N	-8.70	39	3.57	N	-10.20	39
23	0.33	N	-8.25	37	2.38	N	-11.00	38
24	Ice	-	-7.20	33	1.79	N	-11.25	34
25	Ice	-	-7.95	32	1.96	N	-11.35	33
26	Ice	-	-8.05	32	2.08	N	-11.40	34
27	Ice	-	-8.15	34	2.08	N	-11.40	39
28	0.29	N	-8.20	42	2.50	N	-11.20	42
29								
30								
31								
Ave	0.09	N	-7.82	34	1.77	N	-11.32	35

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

FEBRUARY 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	3.12	N	-0.20	45	2.50	N	-10.90	41
4								
5								
6								
7								
8								
9								
10	2.78	N	-0.19	46	1.47	N	-10.95	35
11								
12								
13								
14								
15								
16								
17	2.50	N	-0.18	48	2.27	N	-10.95	42
18								
19								
20								
21								
22								
23								
24	2.50	N	-0.18	47	2.50	N	-10.70	38
25								
26								
27								
28								
29								
30								
31								
Ave	2.73	N	-0.19	47	2.19	N	-10.88	39

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

MARCH 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1900	E-5	30.19	37	5	40	0.00
2	1930	Calm	29.80	58	5	0	0.05
3	1900	SW-20	29.56	70	8	90	0.00
4	1900	SW-25-30	29.56	65	6	100	0.60
5	1900	SW-0-5	29.97	51	8	0	0.35
6	1900	SW-5	29.82	58	8	80	Trace
7	2000	ENE-10	30.02	49	8	90	0.15
8	1930	NE-18	30.08	37	8	100	0.15
9	1900	Calm	29.98	53	2	100	0.30
10	1830	NE-18	30.60	37	8	50	0.05
11	1900	NE-15	30.10	39	8	100	0.00
12	1900	NE-35-40	30.17	36	8	40	0.00
13	1900	NNE-5	30.37	32	8	0	0.00
14	1900	NE-8	30.24	37	8	5	0.00
15	2130	ENE-5	29.96	38	6	100	0.30
16	1800	NNW-28	29.97	37	6	100	0.05
17	1800	NW-35	30.00	41	8	10	0.00
18	-	-	-	-	-	-	-
19	1900	NE-8	29.92	40	7	100	0.03
20	1900	NE-12	29.95	32	7	80	0.00
21	1900	WNW-20	29.96	36	8	60	0.00
22	1830	SSW-18	30.00	43	7	50	0.00
23	1700	N-28	30.09	31	7	100	0.00
24	1800	W-30-40	30.50	18	7	30	0.00
25	1900	S-12	30.39	30	7	0	0.00
26	1830	Calm	30.26	35	6	40	0.00
27	1830	NE-8	30.22	37	6	100	0.00
28	1830	NE-35-40	30.02	35	6	100	0.00
29	-	-	-	-	-	-	0.35
30	1730	W-5	29.40	48	6	100	Trace
31	1800	N-8	29.70	39	7	100	0.00
Total							2.38
Ave	1874	15	30.03	41	7	64	0.08

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

MARCH 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1900	E-5	Calm	-	-	0	34
2	1930	Calm	Calm	-	-	0	38
3	1900	SW-20	ESE-1.00	30	2	W-0.15	46
4	1900	SW-25-30	E-1.25	18	2	W-0.18	48
5	1900	SW-0-5	Calm	-	-	E-0.22	46
6	1900	SW-5	Calm	-	-	W-0.04	47
7	2000	ENE-10	SW-0.83	35	2	W-0.17	50
8	1930	NE-18	SW-2.00	20	2	0	43
9	1900	Calm	Calm	-	-	W-0.09	45
10	1830	NE-18	SW-1.00	25	2	W-0.17	43
11	1900	NE-15	SW-1.00	20	2	W-0.38	41
12	1900	NE-35-40	SW-2.00	25	2	W-0.40	40
13	1900	NNE-5	SW-0.50	16	2	W-0.17	35
14	1900	NE-8	SW-0.67	16	2	W-0.13	39
15	2130	ENE-5	Calm	-	-	W-0.05	38
16	1800	NNW-28	SSE-2.50	18	2	0	37
17	1800	NW-35	SE-2.50	20	2	E-0.67	40
18	-	-	-	-	-	-	-
19	1900	NE-8	SW-0.50	12	2	0	43
20	1900	NE-12	SW-1.00	20	2	W-0.33	41
21	1900	WNW-20	SE-1.25	16	2	E-0.25	39
22	1830	SSW-18	ENE-0.67	8	2	W-0.18	39
23	1700	N-28	S-2.00	30	2	0	37
24	1800	W-30-40	SE-2.00	25	2	0	34
25	1900	S-12	Calm	-	-	0	32
26	1830	Calm	SE-0.84	16	2	0	37
27	1830	NE-8	SW-1.00	20	2	W-0.09	38
28	1830	NE-35-40	SW-2.5-3.0	25	2	W-0.33	37
29	-	-	-	-	-	-	-
30	1730	W-5	ESE-0.50	16	2	E-0.15	39
31	1800	N-8	S-0.83	12	2	E-0.17	40
Ave	1874	15	0.98	15	2	0.15	40

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

MARCH 1974

MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE		
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)
1	1900	E-5	34	0.00	0.00	-	-	-
2	1930	Calm	38	0.00	0.00	5	30	-
3	1900	SW-20	46	0.00	0.00	0	10	-
4	1900	SW-25-30	48	0.00	0.00	0	0	-
5	1900	SW-0-5	46	0.00	0.00	0	0	-
6	1900	SW-5	47	0.00	0.00	0	0	-
7	2000	ENE-10	50	0.00	0.00	0	0	-
8	1930	NE-18	43	0.00	0.00	0	0	-
9	1900	Calm	45	0.00	0.00	0	0	-
10	1830	NE-18	43	0.00	0.00	0	0	-
11	1900	NE-15	41	0.00	0.00	0	0	-
12	1900	NE-35-40	40	0.00	0.00	0	0	-
13	1900	NNE-5	35	0.00	0.00	0	0	-
14	1900	NE-8	39	0.00	0.00	0	0	-
15	2130	ENE-5	38	0.00	0.00	0	0	-
16	1800	NNW-28	37	Trace	0.00	0	0	-
17	1800	NW-35	40	Trace	0.00	0	0	-
18	-	-	-	-	-	-	-	-
19	1900	NE-8	43	0.00	0.00	0	0	-
20	1900	NE-12	41	0.00	0.00	0	0	-
21	1900	WNW-20	39	0.38	0.00	0	0	-
22	1830	SSW-18	39	0.00	0.00	0	0	-
23	1700	N-28	37	Trace	0.00	0	0	-
24	1800	W-30-40	34	0.50	0.00-0.50	0	0	-
25	1900	S-12	32	0.00	0.00-0.50	0	0	-
26	1830	Calm	37	0.00	0.00	0	0	-
27	1830	NE-8	38	0.00	0.00	0	0	-
28	1830	NE-35-40	37	0.00	0.00	0	0	-
29	-	-	-	-	-	-	-	-
30	1730	W-5	39	0.00	0.00	0	0	-
31	1800	N-8	40	0.00	0.00	0	0	-
Total				0.50				
Ave	1874	15	40	0.02	0.00	0	1	-

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

MARCH 1974

MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.03	50	6.66	50	0.29	49
2	1.03	51	6.66	52	0.29	50
3	1.03	53	6.66	53	0.29	53
4	1.05	52	6.66	53	0.29	52
5	1.05	51	6.66	51	0.29	52
6	1.05	52	6.66	52	0.29	52
7	1.05	52	6.66	52	0.29	52
8	1.05	51	6.66	51	0.29	51
9	1.07	51	6.66	51	0.29	50
10	1.07	50	6.66	51	0.29	50
11	1.07	50	6.66	51	0.29	51
12	1.07	50	6.66	50	0.29	50
13	1.07	50	6.66	51	0.29	48
14	1.07	50	6.66	51	0.29	48
15	1.07	50	6.66	51	0.29	49
16	1.07	49	6.66	51	0.29	49
17	1.07	49	6.66	51	0.29	49
18	-	-	-	-	-	-
19	1.07	49	6.66	51	0.29	49
20	1.07	50	6.66	50	0.29	49
21	1.07	50	6.66	50	0.29	49
22	1.05	50	6.66	50	0.29	49
23	1.07	50	6.66	50	0.29	48
24	1.05	50	6.66	50	0.29	47
25	1.05	50	6.66	50	0.29	48
26	1.05	50	6.66	51	0.29	47
27	1.05	51	6.66	51	0.30	49
28	1.05	51	6.66	51	0.30	49
29	-	-	-	-	-	-
30	1.05	51	6.66	51	0.29	49
31	1.05	51	6.66	51	0.29	50
Ave	1.06	50	6.66	51	0.29	50

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

MARCH 1974

MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	1.79	N	-14.95	54	1.57	N	-16.20	55
4								
5								
6								
7								
8								
9								
10	1.79	N	-12.30	45	3.57	N	-14.20	45
11								
12								
13								
14								
15								
16								
17	1.92	N	-15.10	43	1.67	N	-16.40	44
18								
19								
20								
21								
22								
23								
24	1.19	N	-15.70	36	1.47	N	-16.70	36
25								
26								
27								
28								
29								
30								
31	1.57	N	-15.25	43	1.47	N	-16.45	43
Ave	1.65	N	-14.66	44	1.95	N	-15.99	45

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

MARCH 1974

MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.36	N	-7.45	37	2.27	N	-13.50	38
2	0.38	N	-7.30	43	3.12	N	-13.00	45
3	0.48	N	-8.50	53	2.27	N	-13.50	54
4	1.32	N	-7.20	46	2.63	N	-11.00	45
5	0.66	N	-7.35	47	3.12	N	-11.90	47
6	0.45	N	-7.30	46	2.33	N	-13.30	47
7	0.45	N	-6.75	47	2.78	N	-13.15	47
8	0.56	N	-5.75	42	2.70	N	-13.35	41
9	1.57	N	-6.40	46	2.83	N	-8.95	47
10	0.63	N	-6.50	44	2.78	N	-11.75	44
11	0.33	N	-6.60	40	2.44	N	-13.20	41
12	0.20	N	-5.55	38	2.50	N	-13.50	39
13	0.00	-	-6.80	38	1.92	N	-13.85	39
14	0.00	-	-6.85	39	2.38	N	-13.80	40
15	0.17	N	-6.90	40	2.27	N	-13.80	41
16	0.00	-	-7.55	40	2.38	N	-13.15	39
17	0.00	-	-7.60	41	2.08	N	-13.55	43
18	-	-	-	-	-	-	-	-
19	0.00	N	-6.75	43	2.38	N	-13.90	44
20	0.00	N	-6.70	43	1.92	N	-14.00	43
21	0.50	N	-7.70	40	1.92	N	-14.00	40
22	0.17	N	-7.45	40	1.92	N	-14.00	44
23	0.00	-	-7.15	40	1.92	N	-14.10	40
24	0.36	N	-8.35	36	2.27	N	-14.05	37
25	Ice	-	-7.00	32	1.67	N	-14.05	37
26	0.29	N	-7.85	38	1.92	N	-14.05	42
27	0.17	N	-6.80	41	1.57	N	-14.10	44
28	0.33	S	-5.40	39	1.67	N	-14.10	42
29	-	-	-	-	-	-	-	-
30	0.33	N	-6.90	45	3.33	N	-13.15	45
31	0.00	-	-7.20	42	2.08	N	-13.75	43
Ave	0.33	N	-7.02	42	2.33	N	-13.30	43

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

MARCH 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.15	N	-7.75	38	2.33	N	-11.20	38
2	0.27	N	-7.60	45	2.38	N	-10.90	47
3	0.38	N	-8.80	56	2.50	N	-11.10	55
4	1.47	N	-7.80	47	3.12	N	-10.52	47
5	0.81	N	-7.70	47	2.78	N	-10.80	47
6	0.24	N	-7.60	48	3.03	N	-10.90	48
7	0.20	N	-7.05	47	2.27	N	-10.90	45
8	0.00	-	-6.20	41	2.78	N	-10.90	41
9	1.75	N	-6.80	43	3.57	N	-9.10	47
10	0.20	N	-6.80	46	2.78	N	-10.45	46
11	0.24	N	-6.95	41	2.33	N	-10.95	41
12	0.00	-	-5.90	39	2.08	N	-11.20	40
13	0.11	N	-7.05	38	1.92	N	-11.35	41
14	0.00	-	-7.10	39	2.00	N	-11.30	41
15	0.22	N	-7.15	40	2.08	N	-11.30	41
16	0.19	N	-7.75	39	2.38	N	-11.00	38
17	0.00	N	-7.85	45	2.27	N	-11.20	47
18	-	-	-	-	-	-	-	-
19	0.14	N	-7.05	44	2.08	N	-11.40	48
20	0.00	N	-6.90	43	1.92	N	-11.50	46
21	0.45	N	-7.90	38	1.79	N	-11.45	40
22	0.18	N	-7.75	44	2.08	N	-11.50	48
23	0.00	-	-7.40	39	1.67	N	-11.55	39
24	0.00	-	-8.35	36	1.67	N	-11.50	36
25	Ice	-	-7.30	32	2.08	N	-11.55	38
26	0.00	-	-7.05	38	1.67	N	-11.45	45
27	0.08	N	-7.10	39	1.57	N	-11.55	38
28	0.00	-	-5.70	41	1.52	N	-11.55	40
29	-	-	-	-	-	-	-	-
30	0.29	N	-7.15	46	2.78	N	-11.00	47
31	0.00	-	-7.45	41	1.67	N	-11.35	44
Ave	0.25	N	-7.31	42	2.24	N	-11.12	43

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

MARCH 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	2.50	N	-0.16	53	2.27	N	-11.70	55
4								
5								
6								
7								
8								
9								
10	3.12	N	-0.14	50	2.50	N	-9.85	45
11								
12								
13								
14								
15								
16								
17	2.94	N	-0.14	51	2.08	N	-10.70	48
18								
19								
20								
21								
22								
23								
24	3.12	N	-0.12	48	1.92	N	-11.00	41
25								
26								
27								
28								
29								
30								
31	-	-	-	-	2.08	N	-10.85	47
Ave	2.92	N	-0.14	51	2.17	N	-10.82	47

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

APRIL, 1974

MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1900	ENE-15	29.54	44	6	100	0.45
2	1830	W-10	29.78	62	8	5	0.00
3	1830	S-12	29.37	67	7	100	0.10
4	1900	W-35-45	29.70	50	7	100	1.10
5	1930	NNW-15	29.95	38	5	100	0.05
6	1830	NW-12	30.07	49	8	0	0.00
7	1730	NNE-15	29.95	44	6	100	0.10
8	1900	NE-40-50	30.04	33	6	100	0.15
9	1800	N-8	30.09	41	8	0	0.00
10	1900	Calm	30.24	52	7	20	0.00
11	1930	ESE-5	30.06	58	7	95	0.00
12	1800	SSW-20	29.71	69	7	100	Trace
13	1800	WSW-12	29.86	74	8	0	0.00
14	1830	WNW-50-60	29.64	50	6	100	0.05
15	1830	WNW-12	29.99	45	7	100	Trace
16	2000	Calm	30.10	51	7	0	0.00
17	-	-	-	-	-	-	-
18	1900	NE-	30.07	46	6	100	0.00
19	1830	NE-8	30.30	46	8	0	0.10
20	1930	SE-0-5	30.11	52	7	5	0.00
21	1930	SW-20	29.95	72	6	20	0.00
22	1830	WNW-25	29.68	68	7	30	0.10
23	1900	NW-22	30.05	46	6	100	Trace
24	1830	NNE-15	30.25	51	7	0	0.00
25	1930	Calm	30.22	58	6	100	0.00
26	2000	Calm	-	60	6	0	0.00
27	1930	SW-5-8	30.02	74	6	80	0.00
28	1730	WNW-12	30.05	72	6	100	Trace
29	1830	W-0-5	29.97	73	7	100	0.10
30	1800	WNW-12	29.90	64	6	100	0.10
31							
Total							2.40
Ave	1902	17	29.95	55	7	61	0.83

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

APRIL, 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1900	ENE-15	WSW-1	30	2	W-0.33	41
2	1830	W-10	E-0.50	12	2	0-0.00	48
3	1830	S-12	Calm	-	-	0-0.00	50
4	1900	W-35-45	ESE-2	25	2	E-0.67	51
5	1930	NNW-15	SSE-1	15	2	0-0.00	46
6	1830	NW-12	SE-1	18	2	E-0.32	47
7	1730	NNE-15	SSW-2	20	2	W-0.17	44
8	1900	NE-40-50	SW-3-4	30-40	2	-	39
9	1800	N-8	S-0.67	16	2	E-0.03	40
10	1900	Calm	Calm	-	-	W-0.17	48
11	1930	ESE-5	Calm	-	-	0-0.00	46
12	1800	SSW-20	Calm	-	-	0-0.00	48
13	1800	WSW-12	E-1'swells	20	2	E-0.14	55
14	1830	MNW-50-60	ESE-2.5-3.0	30	2	-	51
15	1830	WNW-12	SE-1	20	2	E-0.28	47
16	2000	Calm	Calm	-	-	0-0.00	53
17	-	-	-	-	-	-	-
18	1900	NE-	SW-1	18	2	0-0.00	53
19	1830	NE-8	SW-0.83	20	2	W-0.15	52
20	1930	SE-0-5	SW-.5swells	14	2	E-0.45	54
21	1930	SW-20	E-1'swells	25	2	W-0.25	55
22	1830	WNW-25	ESE-2	25	2	E-0.63	56
23	1900	NW-22	SE-2	35	2	E-0.33	51
24	1830	NNE-15	SSW-1	25	2	W-0.29	52
25	1930	Calm	Calm	-	-	E-0.11	52
26	2000	Calm	Calm	-	-	0-0.00	56
27	1930	SW-5-8	Calm	-	-	W-0.09	59
28	1730	WNW-12	ESE-0.50	14	2	E-0.28	61
29	1830	W-0-5	Calm	-	-	E-0.14	63
30	1800	WNW-12	SE-0.50	18	2	E-0.10	63
31							
Ave	1902	17	0.86	15	2	0.17	52

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

APRIL, 1974

MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE		
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)
1	1900	ENE-15	41	0.00	0.00	0	0	0.00
2	1830	W-10	48	0.00	0.00	0	0	0.00
3	1830	S-12	50	0.00	0.00	0	0	0.00
4	1900	W-35-45	51	0.00	0.00	0	0	0.00
5	1930	NNW-15	46	Trace	0.00	0	0	0.00
6	1830	NW-12	47	Trace	0.00	0	0	0.00
7	1730	NNE-15	44	0.00	0.00	0	0	0.00
8	1900	NE-40-50	39	0.50	0.0-0.5	0	0	0.00
9	1800	N-8	40	0.00	0.00	0	0	0.00
10	1900	Calm	48	0.00	0.00	0	0	0.00
11	1930	ESE-5	46	0.00	0.00	0	0	0.00
12	1800	SSW-20	48	0.00	0.00	0	0	0.00
13	1800	WSW-12	55	0.00	0.00	0	0	0.00
14	1830	WNW-50-60	51	0.00	0.00	0	0	0.00
15	1830	WNW-12	47	0.00	0.00	0	0	0.00
16	2000	Calm	53	0.00	0.00	0	0	0.00
17	-	-	-	-	-	-	-	-
18	1900	NE-	53	0.00	0.00	0	0	0.00
19	1830	NE-8	52	0.00	0.00	0	0	0.00
20	1930	SE-0-5	54	0.00	0.00	0	0	0.00
21	1930	SW-20	55	0.00	0.00	0	0	0.00
22	1830	WNW-25	56	0.00	0.00	0	0	0.00
23	1900	NW-22	51	0.00	0.00	0	0	0.00
24	1830	NNE-15	52	0.00	0.00	0	0	0.00
25	1930	Calm	52	0.00	0.00	0	0	0.00
26	2000	Calm	56	0.00	0.00	0	0	0.00
27	1930	SW-5-8	59	0.00	0.00	0	0	0.00
28	1730	WNW-12	61	0.00	0.00	0	0	0.00
29	1830	W-0-5	63	0.00	0.00	0	0	0.00
30	1800	WNW-12	63	0.00	0.00	0	0	0.00
31								
				0.50	0.50			
Ave	1902	17	52	0.00	0.00	0	0	0.00

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

APRIL, 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.05	51	6.66	51	0.29	50
2	1.05	52	6.66	53	0.29	53
3	1.05	53	6.66	55	0.29	53
4	1.05	53	6.66	55	0.29	53
5	1.05	52	6.66	53	0.29	53
6	1.05	51	6.66	52	0.29	52
7	1.07	52	6.66	52	0.29	51
8	1.07	52	6.66	52	0.29	50
9	1.07	52	6.66	52	0.29	50
10	1.07	52	6.66	52	0.29	51
11	1.07	52	6.66	52	0.29	51
12	1.07	53	6.66	53	0.29	52
13	1.11	52	6.66	53	0.29	53
14	1.13	51	6.66	55	0.29	52
15	1.09	51	6.66	52	0.29	50
16	1.07	52	6.66	53	0.29	50
17	-	-	-	-	-	-
18	1.07	51	6.66	51	0.29	51
19	1.07	50	6.66	50	0.29	51
20	1.07	52	6.66	53	0.29	52
21	1.07	53	6.66	53	0.29	53
22	1.07	53	6.66	53	0.29	54
23	1.07	52	6.66	52	0.29	52
24	1.07	52	7.50	52	0.30	51
25	1.07	52	6.66	52	0.29	51
26	1.07	53	6.66	52	0.29	53
27	1.07	53	6.66	53	0.29	55
28	1.07	53	6.66	53	0.29	55
29	1.07	53	6.66	53	0.29	55
30	1.07	53	6.66	53	0.29	53
31						
Ave	1.07	52	6.69	53	0.29	52

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

APRIL, 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	1.79	N	-14.95	45	1.47	N	-13.65	45
8								
9								
10								
11								
12								
13								
14	1.43	N	-15.50	58	2.53	N	-16.60	58
15								
16								
17								
18								
19								
20								
21	2.08	N	-15.90	60	1.33	N	-16.90	60
22								
23								
24								
25								
26								
27								
28	1.47	N	-15.90	66	1.39	N	-16.95	65
29								
30								
31								
Ave	1.69	N	-15.56	57	1.71	N	-16.03	57

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

APRIL, 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-6.10	43	1.79	N	-13.90	48
2	0.11	N	-7.05	51	1.47	N	-14.05	56
3	0.00	-	-6.95	55	1.57	N	-14.10	55
4	2.22	N	-6.60	55	2.27	N	- 9.60	55
5	0.38	N	-6.75	44	2.78	N	-12.95	44
6	0.45	N	-7.15	45	2.86	N	-13.30	48
7	0.00	-	-7.10	45	2.86	N	-13.65	45
8	0.00	-	-4.20	37	3.03	N	-13.50	38
9	0.00	-	-6.65	45	2.56	N	-13.65	46
10	0.10	N	-6.80	46	2.56	N	-13.85	49
11	0.13	N	-6.55	50	2.22	N	-13.90	52
12	0.43	N	-7.10	52	2.00	N	-14.10	54
13	0.50	N	-7.00	57	1.79	N	-14.00	62
14	0.25	N	-8.30	57	2.50	N	-14.05	54
15	0.19	N	-7.85	47	2.08	N	-14.05	46
16	0.22	N	-6.75	53	1.39	N	-14.15	51
17	-	-	-	-	-	-	-	-
18	0.00	-	-6.60	55	1.33	N	-14.20	53
19	0.00	-	-6.50	56	1.57	N	-14.30	54
20	0.00	-	-6.30	56	1.25	N	-14.25	56
21	0.00	-	-7.30	58	1.14	N	-14.25	58
22	0.36	N	-7.10	59	1.57	N	-14.15	59
23	0.00	-	-7.40	52	1.43	N	-14.20	54
24	0.00	-	-6.70	56	1.09	N	-14.30	56
25	0.00	-	-6.75	53	1.47	N	-14.30	53
26	0.11	N	-6.70	60	1.19	N	-14.30	57
27	0.10	N	-6.95	62	1.00	N	-14.30	61
28	0.17	N	-6.95	63	0.93	N	-14.30	63
29	0.00	-	-7.00	66	1.14	N	-14.30	64
30	0.13	N	-6.80	65	0.98	N	-14.25	61
31								
Ave	0.20	N	-6.83	53	1.79	N	-13.87	54

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

APRIL, 1974

MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-6.40	45	1.92	N	-11.40	52
2	0.30	N	-7.30	56	1.67	N	-11.50	62
3	0.37	N	-7.25	55	1.89	N	-11.45	58
4	1.33	N	-7.60	54	2.50	N	- 9.80	55
5	0.21	N	-7.05	44	2.70	N	-10.80	44
6	0.30	N	-7.45	51	2.00	N	-11.00	50
7	0.24	N	-0.10	51	1.92	N	-10.65	47
8	0.00	-	-4.70	37	2.08	N	-11.05	37
9	0.00	-	-6.95	45	1.57	N	-11.10	51
10	0.20	N	-7.05	50	1.67	N	-11.30	57
11	0.25	N	-6.85	50	2.27	N	-11.35	53
12	0.37	N	-7.45	54	1.92	N	-11.35	59
13	0.25	N	-7.30	61	1.54	N	-11.50	58
14	1.25	N	-8.60	57	1.67	N	-11.35	61
15	0.12	N	-8.10	44	1.39	N	-11.55	45
16	0.23	N	-7.05	50	1.67	N	-11.60	57
17	-	-	-	-	-	-	-	-
18	0.00	-	-6.90	57	1.25	N	-11.65	55
19	0.00	-	-6.80	56	1.09	N	-11.75	63
20	0.11	N	-6.65	58	1.09	N	-11.70	64
21	0.17	N	-7.65	60	1.19	N	-11.70	62
22	0.15	N	-7.40	60	1.22	N	-11.55	63
23	0.00	-	-7.70	50	1.00	N	-11.65	56
24	0.00	-	-6.95	54	0.80	N	-11.75	63
25	0.00	-	-7.00	52	0.93	N	-11.80	52
26	0.08	N	-7.00	60	0.89	N	-11.80	67
27	0.23	N	-7.20	64	0.66	N	-11.80	70
28	0.08	N	-7.25	65	0.96	N	-11.80	70
29	0.00	-	-7.30	68	0.83	N	-11.80	71
30	0.14	N	-7.10	67	0.78	N	-11.70	66
31								
Ave	0.22	N	-6.90	54	1.49	N	-11.42	58

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLER BLUE HOLE STREAM

APRIL, 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	2.50	N	-0.10	51	1.92	N	-10.65	47
8								
9								
10								
11								
12								
13								
14	2.78	N	-0.14	56	1.54	N	-10.85	57
15								
16								
17								
18								
19								
20								
21	2.50	N	-0.15	55	1.67	N	-10.90	58
22								
23								
24								
25								
26								
27								
28	1.92	N	-0.14	56	1.57	N	-10.90	64
29								
30								
31								
Ave	2.43	N	-0.13	55	1.68	N	-10.83	57

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

JULY 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.05	54	5.45	53	0.26	56
2	1.05	54	5.45	53	0.26	56
3	1.09	54	5.45	53	0.26	56
4	1.07	54	5.45	53	0.26	56
5	1.11	53	5.45	53	0.27	55
6	1.11	53	5.45	52	0.27	55
7	1.13	52	5.45	52	0.28	55
8	1.13	53	5.45	52	0.28	55
9	1.13	53	5.45	53	0.28	56
10	1.05	54	5.45	53	0.28	57
11	1.03	52	5.45	53	0.28	56
12	1.09	53	5.45	53	0.28	56
13	1.07	53	5.45	53	0.29	56
14	1.07	53	6.00	53	0.29	56
15	1.07	53	6.00	53	0.29	56
16	1.07	54	6.00	53	0.29	56
17	1.05	54	6.00	53	0.29	55
18	1.03	53	6.00	53	0.28	55
19	1.02	53	6.00	53	0.28	55
20	1.02	53	6.00	52	0.28	54
21	1.03	53	6.00	52	0.28	54
22	1.03	53	6.00	52	0.28	54
23	1.03	53	5.45	52	0.28	55
24	1.03	53	5.45	52	0.28	55
25	1.03	53	6.00	52	0.28	55
26	-	-	-	-	-	-
27	1.03	53	6.00	52	0.26	56
28	1.03	53	6.00	52	0.26	57
29	1.03	53	6.00	52	0.27	56
30	1.03	53	6.00	52	0.28	55
31	1.03	53	6.00	52	0.28	54
Ave	1.06	53	5.73	53	0.28	55

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

JULY 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	0.44	N	-15.70	74	0.93	N	-17.05	71
8								
9								
10								
11								
12								
13								
14	0.71	N	-16.10	78	1.47	N	-17.10	74
15								
16								
17								
18								
19								
20								
21	0.42	N	-16.05	69	0.93	N	-17.10	67
22								
23								
24								
25								
26								
27								
28	0.78	N	-16.20	75	0.93	N	-17.10	70
29								
30								
31								
Ave	0.59	N	-16.01	74	1.07	N	-17.09	71

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

JULY 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-6.90	74	1.09	N	-14.40	66
2	0.38	N	-6.80	71	0.74	N	-14.50	66
3	0.00	-	-6.90	76	0.63	N	-14.55	68
4	0.31	N	-7.10	74	0.67	N	-14.55	64
5	0.69	S	-6.65	79	0.48	N	-14.55	63
6	0.13	S	-6.85	78	0.56	N	-14.55	62
7	0.00	-	-6.65	81	0.74	N	-14.55	64
8	0.22	S	-6.70	84	0.54	N	-14.60	66
9	0.00	-	-6.90	83	0.63	N	-14.60	66
10	0.45	S	-6.75	82	0.59	N	-14.60	64
11	0.10	S	-6.85	80	0.49	N	-14.60	63
12	0.00	-	-6.90	80	0.53	N	-14.60	62
13	0.19	S	-6.70	83	0.50	N	-14.60	63
14	0.00	-	-6.95	80	0.53	N	-14.60	66
15	0.38	S	-6.95	81	0.36	N	-14.60	64
16	0.00	-	-6.90	78	0.43	N	-14.60	59
17	0.25	S	-6.75	77	0.45	N	-14.60	62
18	0.28	S	-7.50	74	0.28	N	-14.60	64
19	0.08	S	-7.15	81	0.43	N	-14.60	62
20	0.16	S	-6.65	74	0.40	N	-14.60	59
21	0.00	-	-6.80	79	0.40	N	-14.60	61
22	0.13	N	-6.60	70	0.36	N	-14.60	56
23	0.29	S	-6.90	68	0.51	N	-14.55	60
24	0.00	-	-6.95	79	0.54	N	-14.55	63
25	0.11	S	-6.80	77	0.38	N	-14.60	60
26	-	-	-	-	-	-	-	-
27	0.00	-	-7.15	80	0.40	N	-14.60	64
28	0.14	S	-7.10	74	0.41	N	-14.60	62
29	0.18	N	-7.10	76	0.36	N	-14.60	61
30	0.18	S	-7.45	74	0.30	N	-14.60	59
31	0.00	-	-7.15	73	0.40	N	-14.60	58
Ave	0.16	S	-6.92	77	0.50	N	-14.58	63

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

JULY 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.31	S	-7.15	77	0.81	N	-11.90	84
2	0.42	N	-7.20	76	0.71	N	-11.90	78
3	0.14	N	-7.20	80	0.69	N	-11.90	88
4	0.36	S	-7.35	80	0.66	N	-11.90	84
5	0.00	-	-6.95	79	0.48	N	-11.95	78
6	0.24	S	-7.10	81	0.58	N	-11.95	75
7	0.00	-	-6.95	84	0.50	N	-11.95	83
8	0.22	S	-7.00	84	0.47	N	-11.95	88
9	0.29	N	-7.30	84	0.45	N	-11.95	84
10	0.00	-	-6.95	84	0.34	N	-11.95	82
11	0.16	S	-7.10	80	0.34	N	-11.95	84
12	0.06	N	-7.20	82	0.37	N	-12.00	80
13	0.09	S	-7.00	83	0.38	N	-12.00	83
14	0.00	-	-7.20	81	0.24	N	-12.00	85
15	0.31	S	-7.10	82	0.27	N	-12.00	82
16	0.00	-	-7.20	80	0.18	N	-12.00	72
17	0.00	-	-7.00	82	0.19	N	-12.00	79
18	0.24	S	-7.65	79	0.17	N	-12.00	79
19	0.09	S	-7.45	82	0.17	N	-12.00	75
20	0.00	-	-6.95	80	0.16	N	-12.00	69
21	0.06	S	-7.15	78	0.14	N	-12.00	71
22	0.10	N	-6.90	73	0.13	N	-12.00	67
23	0.24	S	-7.15	74	0.14	N	-12.00	69
24	0.13	S	-7.20	76	0.17	N	-12.00	81
25	0.11	N	-7.10	80	0.15	N	-12.00	75
26	-	-	-	-	-	-	-	-
27	0.13	S	-7.45	81	0.10	N	-12.05	81
28	0.00	-	-7.40	82	0.11	N	-12.05	78
29	0.23	N	-7.40	81	0.10	N	-12.05	70
30	0.15	N	-7.70	76	0.10	N	-12.50	70
31	0.00	-	-7.45	76	0.11	N	-12.50	69
Ave	0.14	S	-7.20	80	0.31	N	-12.01	78

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

JULY 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6								
7	1.43	N	-0.20	56	0.43	N	-9.85	70
8								
9								
10								
11								
12								
13								
14	1.57	N	-0.20	55	0.33	N	-9.85	70
15								
16								
17								
18								
19								
20								
21	1.72	N	-0.18	55	0.41	N	-9.95	63
22								
23								
24								
25								
26								
27								
28	1.35	N	-0.22	55	0.44	N	-10.10	64
29								
30								
31								
Ave	1.52	N	-0.20	55	0.40	N	-9.94	67

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

JULY 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1730	NE-0-5	Calm	-	-	W-0.22	76
2	1730	SW-20	E-1.0	10	2	W-0.23	74
3	1800	WS-15	E-0.5	18	2	0	77
4	1900	SW-12	E-0.5	14	2	W-0.20	77
5	2000	E-0-5	Calm	-	-	0	78
6	1930	ENE-5-8	SW-0.5	10	2	0	78
7	1830	ENE-5-8	Calm	-	-	0	79
8	1800	NE-5-8	SW-0.75	10	2	W-0.16	86
9	1830	E-0-5	Calm	-	-	E-0.22	80
10	1830	NE-22	SW-1.5	18	2	W-0.29	81
11	1830	NE-5-8	ESE-0.5	16	2	W-0.17	78
12	1830	ENE-5-8	Calm	-	-	0	80
13	1900	NNE-0-5	Calm	-	-	0	83
14	1830	W-18	ESE-1-1.5	20	2	W-0.20	83
15	1830	NE-28	SW-1.5-2	25	2	W-0.25	81
16	1930	ESE-10	Calm	-	-	E-0.14	78
17	1830	ENE-5-10	SW-0.75	10	2	0	79
18	1830	WSW-12	ESE-1-1.5	20	2	E-0.24	78
19	2000	SE-8	Calm	-	-	0	81
20	2000	ENE-5	SW-0.5	30	2	E-0.11	76
21	1900	ENE-10	SW-0.75	20	2	W-0.14	76
22	1900	E-12	SW-0.5	30	2	E-0.24	72
23	1800	NE-18	SW-1-1.5	35	2	W-0.22	73
24	1800	Calm	Calm	-	-	W-0.18	74
25	1900	SE-10	SW-0.5	14	2	E-0.11	75
26	-	-	-	-	-	-	-
27	1830	Calm	Calm	-	-	0	76
28	1900	W-0-5	Calm	-	-	0	80
29	1900	NW-20	SE-1.5-2	25	2	E-0.30	77
30	1900	NW-22	SE-2	25	2	E-0.22	76
31	-	Calm	Calm	-	-	0	75
Ave	1903	9.8	0.59	12	2	0.13	78

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

JULY 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1730	NE-0-5	29.78	86	8	0	0.00
2	1730	SW-20	29.76	91	6	50	Trace
3	1800	SW-15	29.76	94	6	15	0.00
4	1900	SW-12	29.84	89	6	90	0.45
5	2000	E-0-5	29.97	72	8	0	0.05
6	1930	ENE-5-8	30.04	84	7	0	0.00
7	1830	ENE-5-8	29.98	84	7	0	0.00
8	1800	NE-5-8	29.86	91	6	5	0.00
9	1830	E-0-5	29.70	86	6	100	Trace
10	1830	NE-22	29.76	78	6	100	0.00
11	1830	NE-5-8	30.04	78	8	5	0.00
12	1830	ENE-5-8	30.10	83	8	0	0.00
13	1900	NNE-0-5	29.96	89	7	0	0.00
14	1830	W-18	29.67	96	6	10	0.00
15	1830	NE-28	29.91	78	6	0	Trace
16	1930	ESE-10	30.08	73	7	20	0.00
17	1830	ENE-5-10	30.05	84	7	10	0.00
18	1830	WSW-12	29.83	88	6	70	0.00
19	2000	SE-8	29.85	84	6	10	0.00
20	2000	ENE-5	30.06	69	8	0	0.00
21	1900	ENE-10	30.01	73	8	0	0.00
22	1900	E-12	29.92	76	7	100	0.00
23	1800	NE-18	29.97	73	6	100	0.30
24	1800	Calm	30.01	77	7	60	0.00
25	1900	SE-10	29.93	74	7	100	0.00
26	-	-	-	-	-	-	-
27	1830	Calm	29.83	84	6	80	0.00
28	1900	W-0-5	29.73	88	7	0	0.00
29	1900	NW-20	29.65	80	8	20	0.00
30	1900	NW-22	29.86	72	8	60	0.00
31	-	Calm	29.94	79	8	10	0.00
Total							0.80
Ave	1903	9.8	29.90	82	7	34	0.03

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

AUGUST 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	1.05	53	6.00	52	0.28	54
2	1.05	52	6.00	52	0.28	54
3	1.02	53	6.00	52	0.28	54
4	1.02	52	6.00	52	0.28	54
5	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	1.00	52	6.00	52	0.28	55
9	0.97	53	6.00	52	0.28	56
10	0.97	53	6.00	52	0.28	56
11	1.00	54	6.00	52	0.28	56
12	1.00	54	6.00	52	0.28	56
13	1.00	53	6.00	52	0.28	56
14	1.00	53	6.00	52	0.28	55
15	1.00	53	6.00	52	0.28	55
16	1.00	53	6.00	52	0.28	56
17	1.00	53	6.00	52	0.28	56
18	1.00	53	6.00	52	0.28	56
19	1.00	53	6.00	52	0.28	56
20	1.00	53	6.00	53	0.28	56
21	1.00	53	6.00	53	0.28	56
22	0.97	53	6.00	53	0.28	56
23	0.97	53	6.00	53	0.28	56
24	0.97	53	6.00	53	0.28	56
25	0.97	53	6.00	52	0.28	56
26	0.97	53	6.00	52	0.28	56
27	0.97	53	6.00	52	0.28	56
28	0.97	53	6.00	52	0.28	56
29	0.97	53	6.00	52	0.28	55
30	0.97	53	6.00	52	0.28	55
31	0.97	52	6.00	52	0.28	54
Ave	0.99	53	6.00	52	0.28	55

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

AUGUST 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4	1.14	N	-16.35	66	1.39	N	-17.00	65
5								
6								
7								
8								
9								
10								
11	1.04	N	-16.30	70	1.04	N	-17.05	68
12								
13								
14								
15								
16								
17								
18	0.56	N	-16.30	74	1.09	N	-17.05	70
19								
20								
21								
22								
23								
24								
25	0.69	N	-16.20	75	0.83	N	-17.10	68
26								
27								
28								
29								
30								
31								
Ave	0.86	N	-16.29	71	1.09	N	-17.05	68

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

AUGUST 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.05	75	0.32	N	-14.60	59
2	0.32	S	-6.90	75	0.38	N	-14.60	60
3	0.70	S	-7.20	73	0.33	N	-14.60	61
4	0.22	N	-8.50	66	0.29	N	-14.60	58
5	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-
8	0.13	S	-6.90	73	0.45	N	-14.60	59
9	0.30	S	-6.80	76	0.47	N	-14.60	63
10	0.15	N	-6.75	76	0.35	N	-14.60	60
11	0.00	-	-7.25	73	0.43	N	-14.60	61
12	0.06	S	-7.10	81	0.56	N	-14.60	63
13	0.23	N	-7.15	71	1.25	N	-14.35	65
14	0.00	-	-7.20	75	0.77	N	-14.55	65
15	0.00	-	-7.10	77	0.40	N	-14.60	63
16	0.00	-	-7.20	76	0.34	N	-14.60	64
17	0.11	S	-7.35	77	0.76	N	-14.50	65
18	0.00	-	-7.30	79	0.38	N	-14.60	64
19	0.00	-	-7.20	78	0.38	N	-14.60	63
20	0.23	S	-7.15	78	0.36	N	-14.60	63
21	0.00	-	-7.20	76	0.40	N	-14.60	62
22	0.00	-	-7.20	75	0.50	N	-14.60	62
23	0.11	N	-7.45	76	0.56	N	-14.60	64
24	0.14	S	-7.05	78	0.63	N	-14.60	60
25	0.16	S	-7.15	79	0.52	N	-14.60	62
26	0.12	S	-7.40	76	0.56	N	-14.60	64
27	0.30	S	-7.30	73	0.74	N	-14.55	62
28	0.00	-	-6.75	67	1.67	N	-14.35	62
29	0.05	S	-7.35	67	0.89	N	-14.55	62
30	0.10	N	-7.70	62	0.38	N	-14.60	60
31	0.00	-	-7.60	71	0.34	N	-14.60	60
Ave	0.21	S	-7.22	74	0.55	N	-14.57	62

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

AUGUST 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.35	77	0.11	N	-12.05	69
2	0.10	N	-7.15	78	0.10	N	-12.05	74
3	0.00	-	-7.45	76	0.11	N	-12.00	73
4	0.00	-	-8.80	73	0.10	N	-12.05	66
5	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-
8	0.17	N	-7.25	77	1.57	N	-11.50	72
9	0.23	S	-7.05	81	0.57	N	-11.95	81
10	0.08	N	-7.00	80	0.22	N	-12.00	78
11	0.09	N	-7.55	76	0.22	N	-12.00	74
12	0.54	N	-7.40	84	0.21	N	-12.00	80
13	1.04	S	-7.20	79	1.54	N	-11.40	76
14	0.08	N	-7.50	78	0.59	N	-11.90	81
15	0.07	N	-7.35	80	0.23	N	-12.00	80
16	0.00	N	-7.50	80	0.21	N	-12.00	81
17	0.09	N	-7.65	80	0.96	N	-11.85	81
18	0.00	-	-7.55	82	0.45	N	-11.95	81
19	0.00	-	-7.50	82	0.29	N	-12.00	83
20	0.00	-	-7.45	84	0.23	N	-12.00	82
21	0.00	-	-7.50	81	0.16	N	-12.05	82
22	0.00	-	-7.50	80	0.12	N	-12.05	81
23	0.27	N	-7.80	80	0.12	N	-12.05	78
24	0.00	-	-7.30	80	0.10	N	-12.05	72
25	0.07	N	-7.40	82	0.10	N	-12.05	75
26	0.09	S	-7.70	80	0.10	N	-12.05	80
27	0.50	N	-7.75	78	0.97	N	-11.85	76
28	0.00	-	-7.05	68	1.39	N	-11.70	66
29	0.12	S	-7.55	72	0.69	N	-11.90	72
30	0.00	-	-8.00	73	0.43	N	-11.95	72
31	0.00	-	-7.90	75	0.40	N	-11.95	72
Ave	0.13	N	-7.51	78	0.44	N	-11.94	76

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

AUGUST 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4	1.39	N	-0.23	54	0.45	N	-10.30	62
5								
6								
7								
8								
9								
10								
11	1.25	N	-0.22	55	0.53	N	-10.40	63
12								
13								
14								
15								
16								
17								
18	1.35	N	-0.24	55	0.50	N	-10.50	69
19								
20								
21								
22								
23								
24								
25	1.39	N	-0.24	55	0.51	N	-10.65	68
26								
27								
28								
29								
30								
31								
Ave	1.35	N	-0.23	55	0.50	N	-10.46	66

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

AUGUST 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	2000	Calm	Calm	-	-	E-0.30	76
2	1900	SSE-0-5	Calm	-	-	-	76
3	1900	Calm	Calm	-	-	W-0.35	75
4	1830	SW-20	E-1.0	18	2	W-0.10	72
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-
8	1900	Calm	Calm	-	-	E-0.22	76
9	1730	NE-5-8	SW-1	-	2	W-0.25	76
10	1830	Calm	Calm	-	-	0	76
11	1700	S-22	Calm	-	-	0	74
12	1800	Calm	Calm	-	-	0	79
13	1800	SSW-10	Calm	-	-	E-0.20	76
14	1800	SE-8	Calm	-	-	0	76
15	1830	NE-12	SW-1	20	2	W-0.09	76
16	1830	Calm	Calm	-	-	0	77
17	1930	NW-12	SE-1.0	20	2	0	78
18	1800	Calm	Calm	-	-	0	84
19	1800	WSW-0-5	Calm	-	-	W-0.07	83
20	1830	NE-8	Calm	-	-	0	84
21	1830	SSE-15	Calm	-	-	0	77
22	1800	S-0-5	Calm	-	-	E-0.13	82
23	1800	SW-5	Calm	-	-	E-0.21	79
24	1900	ENE-12	SW-1.0	40	2	W-0.10	78
25	1800	ENE-8	SW-0.75	20	2	W-0.14	79
26	1800	SW-15	Calm	-	-	W-0.12	78
27	1830	NNE-18	SSW-1-1.5	16	2	0	76
28	1900	ESE-8	SW-1.0	40	2	E-0.56	72
29	1830	NE-0-5	SW-0.5	16	2	W-0.14	72
30	2100	SSW-5	Calm	-	-	W-0.13	74
31	1800	Calm	Calm	-	-	0	74
Ave	1815	7.0	0.31	1	1	0.11	80

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

AUGUST 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	2000	Calm	29.92	74	7	100	0.00
2	1900	SSE-0-5	29.74	78	6	100	0.00
3	1900	Calm	29.82	70	6	100	0.26
4	1830	SW-20	29.95	70	8	100	0.05
5	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-
8	1900	Calm	29.99	84	6	100	0.26
9	1730	NE-5-8	30.10	83	6	0	Trace
10	1830	Calm	29.94	81	6	100	0.00
11	1700	S-22	29.93	77	6	100	0.06
12	1800	Calm	29.88	87	8	5	0.60
13	1800	SSW-10	29.91	68	7	100	0.90
14	1800	SE-8	30.10	75	8	0	0.00
15	1830	NE-12	30.10	75	7	30	0.00
16	1830	Calm	29.95	76	7	20	0.00
17	1930	NW-12	29.81	78	7	10	0.40
18	1800	Calm	29.84	83	8	10	0.00
19	1800	WSW-0-5	29.99	81	7	5	0.00
20	1830	NE-8	30.04	84	7	5	0.00
21	1830	SSE-15	30.07	85	7	0	0.00
22	1800	S-0-5	30.08	85	6	0	0.00
23	1800	SW-5	29.95	82	6	100	0.00
24	1900	ENE-12	30.07	74	7	50	0.00
25	1800	ENE-8	30.02	79	7	0	0.00
26	1800	SW-15	29.83	86	6	0	0.00
27	1830	NNE-18	29.82	76	7	100	1.10
28	1900	ESE-8	29.92	64	8	100	0.55
29	1830	NE-0-5	29.86	73	7	60	0.04
30	2100	SSW-5	29.86	70	8	60	0.00
31	1800	Calm	29.85	73	8	50	0.00
Total							4.22
Ave	1815	7	29.94	78	7	50	0.15

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

SEPTEMBER 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	0.97	52	6.00	52	0.28	54
2	0.97	52	6.00	52	0.28	54
3	0.97	52	6.00	52	0.28	53
4	0.97	52	6.00	52	0.28	53
5	0.94	52	6.00	52	0.28	53
6	0.94	52	6.00	52	0.28	53
7	0.93	53	6.00	52	0.28	53
8	0.93	53	6.00	52	0.28	55
9	0.93	53	6.00	52	0.28	56
10	0.93	53	6.00	52	0.29	56
11	0.93	53	6.00	52	0.29	57
12	0.90	53	6.00	52	0.29	57
13	0.90	53	6.00	52	0.29	56
14	0.90	53	6.00	52	0.29	55
15	0.90	53	6.00	52	0.29	54
16	0.88	53	6.00	52	0.29	54
17	0.88	52	6.00	52	0.29	53
18	0.88	52	6.00	52	0.29	53
19	0.88	52	6.00	52	0.29	53
20	0.88	52	6.00	52	0.29	53
21	0.86	51	6.00	52	0.29	52
22	0.86	51	6.00	51	0.29	52
23	0.86	51	6.00	51	0.29	52
24	0.83	51	6.00	51	0.30	53
25	0.83	52	6.00	51	0.30	53
26	0.83	52	6.00	51	0.30	53
27	0.83	52	6.00	51	0.30	53
28	0.83	52	6.00	51	0.30	53
29	0.83	51	6.00	51	0.29	53
30	0.83	51	6.00	51	0.29	53
31						
Ave	0.89	52	6.00	52	0.29	54

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

SEPTEMBER 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.93	N	-16.35	67	1.09	N	-17.05	65
2								
3								
4								
5								
6								
7								
8	0.50	N	-16.40	64	1.04	N	-17.10	62
9								
10								
11								
12								
13								
14								
15	1.14	N	-16.40	62	0.67	N	-17.10	59
16								
17								
18								
19								
20								
21								
22	1.19	N	-16.40	57	0.83	N	-17.10	53
23								
24								
25								
26								
27								
28								
29	0.98	N	-16.30	59	1.57	N	-17.00	58
30								
31								
Ave	0.95	N	-16.37	62	1.04	N	-17.07	59

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

SEPTEMBER 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.50	70	0.81	N	-14.60	59
2	0.24	S	-6.55	68	0.50	N	-14.60	58
3	0.00	-	-6.80	63	0.83	N	-14.55	56
4	0.15	S	-7.55	66	0.50	N	-14.60	58
5	0.00	-	-7.50	67	0.56	N	-14.60	59
6	0.00	-	-6.95	68	0.71	N	-14.60	58
7	0.00	-	-7.50	68	0.57	N	-14.60	57
8	0.07	N	-7.50	67	0.47	N	-14.60	58
9	0.00	-	-7.45	69	0.56	N	-14.60	58
10	0.00	-	-7.60	67	0.58	N	-14.60	60
11	0.09	N	-7.70	68	0.45	N	-14.60	62
12	0.00	-	-8.05	69	0.43	N	-14.60	62
13	0.17	S	-8.20	67	0.53	N	-14.60	60
14	0.00	-	-7.60	65	0.43	N	-14.60	55
15	0.24	S	-8.95	61	0.59	N	-14.60	57
16	0.14	S	-7.50	67	0.52	N	-14.60	58
17	0.10	S	-8.30	66	0.43	N	-14.60	58
18	0.00	-	-7.75	66	0.44	N	-14.60	58
19	0.14	N	-7.65	65	0.48	N	-14.60	53
20	0.00	-	-7.65	64	0.59	N	-14.60	56
21	0.00	-	-7.80	62	0.57	N	-14.60	55
22	0.16	S	-7.90	60	0.60	N	-14.60	52
23	0.00	-	-7.65	59	0.52	N	-14.60	54
24	0.00	-	-7.80	56	0.59	N	-14.60	53
25	0.00	-	-8.90	57	0.52	N	-14.60	56
26	0.23	N	-8.40	55	0.49	N	-14.60	56
27	0.00	-	-7.85	61	0.54	N	-14.60	58
28	0.00	N	-7.95	60	0.43	N	-14.60	58
29	0.06	N	-9.70	59	0.59	N	-14.60	54
30	0.15	N	-8.50	53	0.67	N	-14.60	52
31								
Ave	0.06	-	-7.82	64	0.55	N	-14.60	57

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

SEPTEMBER 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-7.75	76	0.24	N	-12.00	72
2	1.06	S	-6.75	70	0.19	N	-12.00	64
3	0.07	S	-7.15	64	0.83	N	-11.85	62
4	0.28	S	-7.75	67	0.52	N	-11.95	66
5	0.00	-	-7.80	71	0.24	N	-12.00	70
6	0.00	-	-7.25	70	0.20	N	-12.00	68
7	0.00	-	-7.85	71	0.19	N	-12.00	68
8	0.06	N	-7.80	69	0.33	N	-12.05	70
9	0.00	-	-7.75	73	0.22	N	-12.05	73
10	0.00	-	-7.90	73	0.20	N	-12.05	72
11	0.13	N	-8.00	74	0.14	N	-12.05	73
12	0.19	S	-8.30	75	0.14	N	-12.05	74
13	0.69	S	-8.50	71	0.13	N	-12.05	69
14	0.13	S	-7.85	68	0.13	N	-12.05	61
15	0.00	-	-9.30	70	0.11	N	-12.05	63
16	0.21	S	-7.80	68	0.10	N	-12.05	67
17	0.00	-	-8.55	71	0.09	N	-12.05	68
18	0.00	-	-8.10	68	0.22	N	-12.00	66
19	0.18	N	-7.95	69	0.18	N	-12.00	71
20	0.20	S	-7.90	66	0.17	N	-12.00	64
21	0.24	S	-8.00	65	0.11	N	-12.05	62
22	0.00	-	-8.20	61	0.12	N	-12.05	54
23	0.06	S	-7.95	60	0.11	N	-12.05	59
24	0.00	-	-8.05	60	0.10	N	-12.05	59
25	0.17	S	-9.15	63	0.10	N	-12.05	63
26	0.15	N	-8.70	66	0.11	N	-12.05	63
27	0.00	-	-8.15	65	0.10	N	-12.05	62
28	0.00	-	-8.20	67	0.39	N	-12.00	68
29	0.00	-	-9.20	58	0.54	N	-11.95	58
30	0.09	N	-8.70	54	0.25	N	-12.00	56
31								
Ave	0.13	S	-8.08	67	0.22	N	-12.02	66

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

SEPTEMBER 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	1.16	N	-0.23	54	0.56	N	-10.70	62
2								
3								
4								
5								
6								
7								
8	1.19	N	-0.24	53	0.83	N	-10.85	62
9								
10								
11								
12								
13								
14								
15	1.32	N	-0.26	54	1.00	N	-10.95	64
16								
17								
18								
19								
20								
21								
22	1.04	N	-0.26	53	1.00	N	-11.00	57
23								
24								
25								
26								
27								
28								
29	1.19	N	-0.25	52	0.96	N	-11.00	55
30								
31								
Ave	1.18	N	-0.25	53	0.87	N	-10.90	60

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

SEPTEMBER 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1900	Calm	29.99	72	8	50	0.10
2	1900	NE-30	29.99	-	8	100	0.00
3	1830	Calm	30.08	68	8	80	0.00
4	1830	NE-8	30.06	65	8	80	0.00
5	1800	NE-22	30.28	67	7	0	0.00
6	1900	NE-10	30.17	67	7	0	0.00
7	1930	Calm	30.09	67	6	20	0.00
8	1700	Calm	30.13	74	6	100	0.00
9	1830	Calm	30.10	73	6	40	0.00
10	1830	SW-10	29.98	78	8	40	Trace
11	1800	SSW-8	29.88	78	6	100	0.00
12	1800	WSW-5	29.78	82	6	100	0.10
13	1900	NW-22	30.10	65	8	90	Trace
14	1900	SW-5	30.16	63	8	30	0.00
15	1830	W-25	30.03	74	8	5	0.00
16	1800	ENE-12	30.12	70	8	80	0.00
17	1800	SW-20	29.82	78	7	70	0.00
18	1900	SE-0-5	30.04	60	7	0	Trace
19	1800	WSW-10	29.98	78	7	90	0.00
20	1800	NE-12	30.12	64	8	100	Trace
21	1800	W-10	30.06	62	8	95	Trace
22	1730	N-15	30.36	51	8	30	0.00
23	1800	E-10	30.39	54	8	0	0.00
24	1830	ESE-0-5	30.08	62	7	5	0.00
25	1800	NW-12	29.83	68	8	0	0.00
26	1800	SW-12	29.84	72	7	0	0.00
27	1800	SW-8	29.76	71	7	100	0.00
28	1730	SW-12	29.72	74	7	80	0.50
29	1700	NW-32	29.94	56	8	90	0.20
30	1800	WNW-20	30.06	52	7	100	0.00
31							
Total							0.90
Ave	1819	11	30.03	66	7	56	0.03

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

SEPTEMBER 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1900	Calm	Calm	-	-	0	74
2	1900	NE-30	SW-2.5-8	25	2	W-0.42	70
3	1830	Calm	SW-0.75	16	2	W-0.24	64
4	1830	NE-8	SW-0.75	14	2	W-0.20	66
5	1800	NE-22	SW-2	25	2	W-0.20	68
6	1900	NE-10	SW-1	35	2	W-0.14	68
7	1930	Calm	Calm	-	-	E-0.05	69
8	1700	Calm	Calm	-	-	0	69
9	1830	Calm	Calm	-	-	0	70
10	1830	SW-10	Calm	-	-	W-0.09	70
11	1800	SSW-8	Calm	-	-	W-0.12	70
12	1800	WSW-5	ESE-0.50	14	2	W-0.15	71
13	1900	NW-22	SE-2-2.5	25	2	0	69
14	1900	SW-5	SE-0.75	16	2	E-0.10	68
15	1830	W-25	ESE-1.5-2	30	2	E-0.31	66
16	1800	ENE-12	SW-1	20	2	0	66
17	1800	SW-20	WNW-1-1.5	18	2	E-0.20	68
18	1900	SE-0-5	Calm	-	-	E-0.07	68
19	1800	WSW-10	Calm	-	-	W-0.08	68
20	1800	NE-12	SW-1-1.5	18	2	W-0.23	64
21	1800	W-10	ESE-0.5	10	2	E-0.25	64
22	1730	N-15	S-1-1.5	12	2	E-0.31	59
23	1800	E-10	SW-0.75	8	2	W-0.08	60
24	1830	ESE-0-5	Calm	-	-	W-0.09	59
25	1800	NW-12	SE-1	20	2	E-0.24	60
26	1800	SW-12	W-0.50	15	1	W-0.08	60
27	1800	SW-8	Calm	-	-	0	61
28	1730	SW-12	SW-0.75	20	1	W-0.14	62
29	1700	NW-32	SE-1.5	30	2	E-0.30	57
30	1800	WNW-20	SE-1.5-2	30	2	E-0.39	55
31							
Ave	1819	11	0.78	13	1	0.15	65

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

OCTOBER 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1830	NW-28	30.17	51	8	80	0.00
2	1830	NNW-20	30.51	45	8	85	Trace
3	1800	SE-5	30.46	45	8	5	0.00
4	1800	Calm	30.24	62	8	10	0.00
5	1900	SSW-15	30.20	71	7	40	0.00
6	1730	SW-22	30.12	80	7	50	0.00
7	1800	NNE-5-8	30.26	52	8	0	0.00
8	1800	S-10	30.08	58	7	20	0.00
9	1830	Calm	29.96	60	6	10	0.00
10	1830	Calm	30.10	63	7	0	0.00
11	-	-	-	-	-	-	-
12	1800	NNE-18	30.23	63	4	100	Trace
13	1630	ESE-8	30.22	60	6	100	Trace
14	1700	SW-18	29.90	60	7	100	0.20
15	1800	Calm	30.19	49	8	95	0.10
16	1830	Calm	30.00	59	7	0	0.00
17	1800	N-25	29.96	58	8	10	0.00
18	1830	NE-0-5	30.24	42	7	80	0.00
19	1830	Calm	30.33	41	8	80	0.00
20	1800	N-5	30.52	41	7	95	0.00
21	1830	Calm	30.60	49	8	0	0.00
22	1830	SW-10	30.38	60	7	5	0.00
23	1830	Calm	30.31	52	0	100	0.02
24	1800	SSE-0-5	30.10	59	5	0	0.12
25	-	-	-	-	-	-	-
26	1730	W-12	30.29	58	8	20	0.00
27	1630	NW-8	30.19	64	7	5	0.00
28	1800	Calm	30.07	61	7	20	0.00
29	1800	SSE-0-5	30.19	64	7	100	0.00
30	1830	SSW-5	30.21	65	7	0	0.04
31	1830	Calm	30.24	71	7	70	0.00
Total							0.48
Ave	1836	8	30.22	57	7	44	0.02

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

OCTOBER 1974
MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1830	NW-28	SE-2-2.5	25	2	E-0.50	53
2	1830	NNW-20	SSE-1.5	25	2	E-0.25	49
3	1800	SE-5	SW-0.5	25	1	-	50
4	1800	Calm	Calm	-	-	W-0.16	50
5	1900	SSW-15	E-0.5	12	1	W-0.18	52
6	1730	SW-22	ESE-1.0	20	2	W-0.28	55
7	1800	NNE-5-8	SSW-0.75	16	2	-	54
8	1800	S-10	Calm	-	-	W-0.09	53
9	1830	Calm	Calm	-	-	W-0.11	56
10	1830	Calm	Calm	-	-	-	58
11	-	-	-	-	-	-	-
12	1800	NNE-18	SSW-20	20	2	W-0.23	57
13	1630	ESE-8	SW-0.75	16	2	E-0.13	55
14	1700	SW-18	E-1.0	25	2	E-0.20	57
15	1800	Calm	Calm	-	-	W-0.08	55
16	1830	Calm	Calm	-	-	-	56
17	1800	N-25	S-2-2.5	20	2	-	56
18	1830	NE-0-5	Calm	-	-	W-0.09	51
19	1830	Calm	Calm	-	-	-	50
20	1800	N-5	S-0.5	14	2	-	45
21	1830	Calm	Calm	-	-	W-0.12	45
22	1830	SW-10	Calm	-	-	-	46
23	1830	Calm	Calm	-	-	-	46
24	1800	SSE-0-5	Calm	-	-	-	48
25	-	-	-	-	-	-	-
26	1730	W-12	ESE-1.0	20	2	E-0.19	52
27	1630	NW-8	SE-0.75	14	1	E-0.13	51
28	1800	Calm	Calm	-	-	-	51
29	1800	SSE-0-5	Calm	-	-	-	51
30	1830	SSW-5	Calm	-	-	W-0.16	53
31	1830	Calm	Calm	-	-	W-0.05	57
Ave	1836	8	0.51	9	1	0.10	52

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

OCTOBER 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	0.83	50	6.00	51	0.30	52
2	0.81	50	6.00	51	0.30	50
3	0.81	50	6.00	51	0.30	50
4	0.81	51	6.00	51	0.30	52
5	0.80	52	6.00	52	0.30	53
6	0.79	53	6.00	52	0.29	55
7	0.80	53	6.00	52	0.29	55
8	0.80	52	6.00	51	0.29	53
9	0.80	51	6.00	51	0.29	53
10	0.80	51	6.00	51	0.29	53
11	-	-	-	-	-	-
12	0.80	52	6.00	51	0.30	53
13	0.80	52	6.00	52	0.30	53
14	0.80	52	6.00	52	0.30	53
15	0.79	52	6.00	52	0.30	53
16	0.79	52	6.00	52	0.30	52
17	0.79	52	6.00	52	0.29	52
18	0.79	51	6.00	51	0.29	51
19	0.79	51	6.00	51	0.29	49
20	0.80	51	6.00	51	0.29	49
21	0.80	51	6.00	51	0.29	48
22	0.80	51	6.00	51	0.29	49
23	0.80	51	6.00	51	0.30	50
24	0.80	51	6.00	51	0.30	50
25	-	-	-	-	-	-
26	0.80	51	6.00	52	0.30	52
27	0.80	51	6.00	52	0.30	52
28	0.80	51	6.00	52	0.30	52
29	0.79	52	6.00	52	0.30	53
30	0.79	52	6.00	52	0.30	53
31	0.80	52	6.00	52	0.31	53
Ave	0.80	51	6.00	51	0.30	52

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

OCTOBER 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6	0.93	N	-16.45	60	0.80	N	-17.10	55
7								
8								
9								
10								
11								
12								
13	1.04	N	-16.40	55	1.04	N	-17.10	54
14								
15								
16								
17								
18								
19								
20	1.04	N	-16.35	44	1.15	N	-17.10	44
21								
22								
23								
24								
25								
26								
27	0.78	N	-16.40	51	1.59	N	-17.10	49
28								
29								
30								
31								
Ave	0.95	N	-16.40	53	1.15	N	-17.10	51

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

OCTOBER 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3								
4								
5								
6	1.09	N	-0.25	53	1.02	N	-11.05	60
7								
8								
9								
10								
11								
12								
13	1.32	N	-0.26	53	0.93	N	-11.05	55
14								
15								
16								
17								
18								
19								
20	1.14	N	-0.26	50	0.93	N	-11.05	47
21								
22								
23								
24								
25								
26								
27	1.14	N	-0.24	52	1.14	N	-11.05	54
28								
29								
30								
31								
Ave	1.17	N	-0.25	52	1.01	N	-11.05	54

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

OCTOBER 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.09	S	-8.75	54	0.21	N	-12.00	52
2	0.49	S	-8.45	49	0.17	N	-12.00	52
3	0.00	-	-8.35	51	0.16	N	-12.05	55
4	0.00	-	-8.75	54	0.14	N	-12.05	58
5	0.00	-	-9.15	59	0.11	N	-12.05	60
6	0.23	N	-8.75	62	0.10	N	-12.05	62
7	0.81	S	-8.30	57	0.10	N	-12.05	55
8	1.39	S	-8.35	55	0.09	N	-12.05	55
9	0.00	-	-8.40	57	0.09	N	-12.05	59
10	0.00	-	-8.45	60	0.09	N	-12.05	60
11	-	-	-	-	-	-	-	-
12	0.13	S	-8.45	59	0.09	N	-12.05	58
13	0.09	S	-8.15	57	0.08	N	-12.05	58
14	0.13	N	-9.15	60	0.08	N	-12.05	57
15	0.45	S	-8.30	55	0.20	N	-12.00	55
16	0.00	-	-8.65	55	0.12	N	-12.05	56
17	0.13	S	-9.25	58	0.08	N	-12.05	55
18	0.11	N	-8.35	49	0.08	N	-12.05	49
19	0.13	S	-8.40	49	0.08	N	-12.05	48
20	0.00	-	-8.35	44	0.08	N	-12.05	45
21	0.12	N	-9.00	47	0.08	N	-12.05	48
22	0.06	N	-9.35	50	0.07	N	-12.05	53
23	0.16	N	-8.45	48	0.07	N	-12.05	51
24	0.00	-	-8.65	54	0.13	N	-12.05	52
25	-	-	-	-	-	-	-	-
26	0.00	-	-9.00	54	0.12	N	-12.05	53
27	0.00	-	-8.60	54	0.35	N	-12.05	53
28	0.00	-	-8.65	54	-	-	-	52
29	0.06	N	-8.75	53	-	-	-	54
30	0.10	N	-8.90	60	-	-	-	60
31	0.00	-	-8.80	64	-	-	-	60
Ave	0.16	-	-8.65	55	0.12	N	-12.04	55

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

OCTOBER 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-8.55	53	0.53	N	-14.60	52
2	0.78	S	-8.20	49	0.43	N	-14.60	50
3	0.00	-	-8.05	51	0.41	N	-14.60	52
4	0.00	-	-8.45	49	0.39	N	-14.60	53
5	0.00	-	-8.75	56	0.37	N	-14.60	55
6	1.47	N	-8.45	55	0.47	N	-14.60	57
7	0.88	S	-8.00	55	0.46	N	-14.60	53
8	0.07	N	-8.15	53	0.56	N	-14.60	52
9	0.09	S	-8.15	55	0.51	N	-14.60	53
10	0.00	-	-8.20	55	0.76	N	-14.60	55
11	-	-	-	-	-	-	-	-
12	0.20	S	-8.25	55	0.78	N	-14.60	54
13	0.07	S	-7.90	55	0.66	N	-14.60	53
14	0.21	N	-8.90	56	0.53	N	-14.60	55
15	0.16	S	-8.00	55	0.71	N	-14.55	52
16	0.54	S	-8.40	54	0.68	N	-14.60	53
17	0.24	S	-9.00	55	0.61	N	-14.60	53
18	0.00	-	-8.05	51	0.66	N	-14.60	53
19	0.24	S	-8.10	49	0.63	N	-14.60	49
20	0.00	-	-8.10	45	0.53	N	-14.60	47
21	0.10	N	-8.65	43	0.57	N	-14.60	49
22	0.00	-	-9.15	45	0.51	N	-14.60	51
23	0.00	-	-8.15	46	0.56	N	-14.60	50
24	0.08	N	-8.35	48	0.58	N	-14.60	51
25	-	-	-	-	-	-	-	-
26	0.13	N	-8.70	52	0.58	N	-14.60	52
27	0.00	-	-8.30	53	0.79	N	-14.60	52
28	0.00	-	-8.30	50	0.49	N	-14.60	52
29	0.00	-	-8.45	49	0.58	N	-14.60	52
30	0.23	N	-8.60	54	0.68	N	-14.60	55
31	0.11	N	-8.50	58	0.47	N	-14.60	57
Ave	0.19	-	-8.37	52	0.57	N	-14.60	52

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

NOVEMBER 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1800	Calm	30.06	67	7	80	0.00
2	1700	ENE-5	30.10	62	4	100	0.04
3	1630	SW-8	29.82	60	6	100	0.10
4	1900	NE-22	29.78	51	8	100	1.20
5	1800	W-28	30.01	44	8	100	0.11
6	1800	W-10	30.30	42	8	100	0.03
7	1800	Calm	30.33	47	7	0	0.00
8	1800	Calm	30.29	47	6	0	0.00
9	1730	ENE-5	30.21	53	6	90	0.00
10	1600	NNE-8	30.04	52	6	100	0.00
11	1700	SW-16	29.79	51	6	100	0.25
12	1800	W-10	29.80	40	8	100	0.10
13	1830	Calm	29.82	34	5	100	0.02
14	1800	WSW-15	30.10	31	8	95	0.18
15	1830	W-10	30.20	29	8	0	0.00
16	1700	S-6	30.27	47	7	100	0.00
17	1630	SW-15	30.22	52	7	0	0.00
18	1800	S-3	30.05	66	8	0	0.00
19	1830	Calm	29.71	54	5	100	0.03
20	1900	NW-28	29.69	40	8	100	0.48
21	1800	NW-10	29.90	41	8	100	0.10
22	1830	Calm	30.18	39	8	0	0.00
23	1630	SSW-18	30.04	64	7	90	0.00
24	1630	NW-15	30.02	47	6	100	0.21
25	1830	N-35	30.34	33	8	100	0.30
26	1900	Calm	30.32	29	8	40	0.00
27	1900	SW-5	29.97	34	7	100	0.03
28	-	-	-	-	-	-	-
29	1730	NE-8	30.43	37	7	100	0.00
30	1630	ENE-25	30.23	37	7	100	0.00
31							
Total							3.18
Ave	1808	11	30.07	46	7	76	0.11

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

NOVEMBER 1974
MONTH

DATE	TIME	WIND (dir-mpg)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1800	Calm	Calm	-	-	- 0.00	57
2	1700	ENE-5	WSW-0.5	18	2	- 0.00	59
3	1630	SW-8	Calm	-	-	- 0.00	57
4	1900	NE-22	SW-2-2.5	25	2	W-0.42	54
5	1800	W-28	ESE-1.5-2	25	2	E-0.25	51
6	1800	W-10	ESE-0.5	8	2	E-0.21	49
7	1800	Calm	Calm	-	-	E-0.07	49
8	1800	Calm	Calm	-	-	W-0.06	50
9	1730	ENE-5	Calm	-	-	- 0.00	50
10	1600	NNE-8	SW-0.5	8	1	W-0.09	48
11	1700	SW-16	Calm	-	-	W-0.09	48
12	1800	W-10	ESE-0.5	10	2	E-0.13	47
13	1830	Calm	Calm	-	-	- 0.00	41
14	1800	WSW-15	ESE-1	16	2	E-0.17	37
15	1830	W-10	ESE-1	14	1	E-0.10	33
16	1700	S-6	Calm	-	-	W-0.11	34
17	1630	SW-15	ESE-1	20	2	E-0.12	38
18	1800	S-3	Calm	-	-	E-0.13	39
19	1830	Calm	Calm	-	-	- 0.00	40
20	1900	NW-28	SE-2.5	25	2	E-0.50	41
21	1800	NW-10	SE-1.0	12	2	E-0.41	37
22	1830	Calm	Calm	-	-	- 0.00	37
23	1630	SSW-18	Calm	-	-	W-0.15	39
24	1630	NW-15	SE-1-1.5	20	2	E-0.24	43
25	1830	N-35	S-2.5-3.0	30	2	- 0.00	38
26	1900	Calm	Calm	-	-	- 0.00	35
27	1900	SW-5	Calm	-	-	- 0.00	35
28	-	-	-	-	-	-	-
29	1730	NE-8	SW-0.5	16	2	W-0.15	35
30	1630	ENE-25	SW-2-2.5	25	2	W-0.22	34
31							
Ave	1808	11	0.67	9	1	12	43

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

NOVEMBER 1974
MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	0.79	52	6.00	52	0.31	53
2	0.80	52	6.00	52	0.32	53
3	0.80	52	6.00	52	0.33	53
4	0.81	52	6.00	52	0.33	52
5	0.81	52	6.00	51	0.33	51
6	0.82	51	6.00	51	0.33	51
7	0.82	51	6.00	51	0.34	51
8	0.82	51	6.00	51	0.34	51
9	0.83	51	6.00	51	0.35	51
10	0.86	51	6.00	51	0.35	51
11	0.86	51	6.00	51	0.35	51
12	0.86	51	6.00	51	0.34	49
13	0.86	50	6.00	50	0.34	49
14	0.86	50	6.00	50	0.34	49
15	0.86	50	6.00	50	0.34	49
16	0.86	50	6.00	50	0.34	50
17	0.86	50	6.00	50	0.34	51
18	0.86	50	6.00	50	0.34	51
19	0.86	50	6.00	51	0.34	51
20	0.86	50	6.00	51	0.35	50
21	0.86	50	6.00	51	0.35	50
22	0.86	50	6.00	50	0.35	50
23	0.86	50	6.00	51	0.35	51
24	0.86	50	6.00	51	0.35	51
25	0.86	50	6.00	51	0.35	51
26	0.86	50	6.00	51	0.35	50
27	0.88	50	6.00	51	0.35	50
28	-	-	-	-	-	-
29	0.91	50	6.00	51	0.35	49
30	0.91	50	6.00	51	0.35	49
31						
Ave	0.85	51	6.00	51	0.34	51

SUMMARY OF STREAM FLOW OBSERVATIONS
RACCOON CREEK

NOVEMBER 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	0.89	N	-16.35	57	1.00	N	-17.10	56
4								
5								
6								
7								
8								
9								
10	1.14	N	-16.35	46	1.01	N	-17.10	46
11								
12								
13								
14								
15								
16								
17	1.15	N	-16.35	42	1.25	N	-17.15	42
18								
19								
20								
21								
22								
23								
24	1.32	N	-16.30	47	1.37	N	-17.10	48
25								
26								
27								
28								
29								
30								
31								
Ave	1.13	N	-16.34	48	1.16	N	-17.11	48

SUMMARY OF STREAM FLOW OBSERVATIONS
PICKEREL CREEK

NOVEMBER 1974
MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.06	S	-8.55	59	0.57	N	-14.60	57
2	0.05	S	-8.05	60	0.47	N	-14.60	57
3	0.12	N	-8.35	58	0.59	N	-14.60	54
4	0.00	-	-7.35	54	0.81	N	-14.45	51
5	0.10	N	-8.75	50	0.65	N	-14.50	49
6	0.05	N	-8.10	47	0.58	N	-14.55	48
7	0.07	S	-8.25	48	0.58	N	-14.60	50
8	0.00	-	-8.35	49	0.66	N	-14.60	50
9	0.14	S	-8.10	45	0.68	N	-14.60	50
10	0.00	-	-8.10	46	0.68	N	-14.60	50
11	0.24	N	-9.00	47	0.51	N	-14.60	50
12	0.00	-	-8.55	47	0.62	N	-14.60	48
13	0.05	N	-9.70	42	0.68	N	-14.60	45
14	0.33	N	-9.65	39	0.64	N	-14.60	41
15	0.12	N	-10.10	35	0.56	N	-14.60	41
16	0.08	N	-8.60	35	0.53	N	-14.60	46
17	0.17	N	-9.25	41	0.66	N	-14.60	48
18	0.00	-	-8.20	42	0.64	N	-14.60	50
19	0.00	-	-8.30	47	0.60	N	-14.50	46
20	0.00	-	-9.75	47	0.60	N	-14.50	46
21	0.21	S	-8.80	39	0.63	N	-14.50	43
22	0.06	S	-8.45	40	-	-	-	44
23	0.00	-	-8.45	43	0.67	N	-14.60	49
24	0.00	-	-8.95	47	0.66	N	-14.60	48
25	0.11	N	-8.10	43	1.05	N	-14.35	41
26	0.17	N	-8.25	37	0.46	N	-14.50	40
27	0.16	N	-8.50	36	0.61	N	-14.55	41
28	-	-	-	-	-	-	-	-
29	0.00	-	-8.35	36	0.64	N	-14.60	44
30	0.31	S	-6.75	33	0.58	N	-14.60	43
31								
Ave	0.09	N	-8.54	45	0.61	N	-14.06	47

SUMMARY OF STREAM FLOW OBSERVATIONS
SCHERTZ DITCH

NOVEMBER 1974
MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-8.85	64	-	-	-	60
2	0.05	N	-8.35	64	-	-	-	54
3	0.13	N	-8.50	59	-	-	-	57
4	0.17	S	-7.55	53	-	-	-	52
5	0.08	N	-9.05	48	-	-	-	47
6	0.00	-	-8.40	46	-	-	-	45
7	0.09	S	-8.50	48	-	-	-	49
8	0.06	N	-8.60	49	-	-	-	49
9	0.00	-	-8.40	49	-	-	-	49
10	0.00	-	-8.40	47	-	-	-	47
11	0.08	N	-9.25	48	-	-	-	48
12	0.00	-	-8.80	47	-	-	-	46
13	0.00	-	-9.40	39	-	-	-	40
14	0.12	N	-9.30	36	-	-	-	36
15	0.18	N	-9.35	33	-	-	-	35
16	0.00	-	-8.90	36	-	-	-	40
17	0.15	N	-9.25	45	-	-	-	44
18	0.12	N	-8.55	44	-	-	-	46
19	0.00	-	-8.60	43	-	-	-	44
20	0.09	N	-9.20	43	-	-	-	44
21	0.10	S	-9.20	37	-	-	-	35
22	0.11	S	-8.75	39	-	-	-	39
23	0.08	S	-8.75	45	-	-	-	43
24	0.00	-	-9.15	48	-	-	-	46
25	0.00	-	-8.30	38	-	-	-	37
26	0.06	N	-8.55	35	-	-	-	34
27	0.17	N	-8.70	34	-	-	-	33
28	-	-	-	-	-	-	-	-
29	0.00	-	-8.60	34	-	-	-	37
30	0.12	S	-6.95	33	-	-	-	36
31								
Ave	0.07	N	-8.69	44	-	-	-	44

SUMMARY OF STREAM FLOW OBSERVATIONS
MILLERS BLUE HOLE STREAM

NOVEMBER 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1								
2								
3	1.20	N	-0.22	52	1.32	N	-11.00	55
4								
5								
6								
7								
8								
9								
10	0.93	N	-0.25	50	1.27	N	-11.00	50
11								
12								
13								
14								
15								
16								
17	1.04	N	-0.26	49	1.14	N	-11.05	48
18								
19								
20								
21								
22								
23								
24	1.11	N	-0.26	49	1.49	N	-11.00	48
25								
26								
27								
28								
29								
30								
31								
Ave	1.07	N	-0.25	50	1.31	N	-11.01	50

SUMMARY OF METEOROLOGICAL OBSERVATIONS
AT STATION NO. 1

December 1974
MONTH

DATE	TIME	WIND (dir-mph)	BAR PRESS (in)	AIR TEMP (F°)	FOG OR HAZE	CLOUDS (%)	RAIN (in/24 hrs)
1	1600	ENE-35	29.79	34	4	100	0.35
2	1700	NNE-3	29.74	35	6	100	0.42
3	1930	NNW-30	30.32	30	8	0	0.00
4	1900	Calm	30.48	20	8	0	0.00
5	1900	Calm	30.40	24	7	0	0.00
6	1830	SE-5	30.07	31	6	20	0.00
7	1700	SSE-8	29.78	39	6	100	0.05
8	-	-	-	-	-	-	-
9	1830	W-22	30.23	24	8	100	0.10
10	1800	Calm	30.04	28	8	0	0.00
11	2030	S-8	29.94	36	7	100	0.03
12	1830	Calm	30.04	35	7	100	0.00
13	1830	Calm	30.29	35	5	100	0.00
14	1800	Calm	30.29	36	5	60	0.40
15	1700	SSE-8	30.81	35	6	100	0.05
16	1800	SW-5	29.81	36	8	100	0.15
17	1800	W-15	29.86	32	8	100	0.02
18	1800	Calm	30.07	28	8	60	0.00
19	1800	SW-18	30.07	29	8	90	0.00
20	2000	Calm	30.04	25	6	0	0.00
21	1700	W-20	29.87	33	4	100	0.00
22	1700	S-5	-	33	6	100	0.00
23	1800	Calm	30.18	40	7	100	Trace
24	1730	Calm	30.13	37	6	100	0.30
25	1630	W-22	-	29	6	100	0.00
26	1800	SSW-5	30.44	28	7	10	0.00
27	1700	SW-8	30.19	35	6	100	Trace
28	1800	Calm	30.29	35	6	100	0.00
29	1700	Calm	30.18	39	6	100	0.00
30	1830	Calm	30.36	34	7	0	0.00
31	1700	NE-5	-	34	4	100	0.18
Total							2.05
Ave	1829	7	30.14	32	6	71	0.07

SUMMARY OF SANDUSKY BAY OBSERVATIONS
AT STATION NO. 1

December 1974

MONTH

DATE	TIME	WIND (dir-mph)	WAVES			SHORE CURRENTS (dir-ft/sec)	BAY TEMP (F°)
			Height (dir-ft)	Length (ft)	Period (sec)		
1	1600	ENE-35	SW-2-2.5	35	2	W-0.28	33
2	1700	NNE-3	SSW-2-2.5	35	2	W-0.33	33
3	1930	NNW-30	SSE-2	25	2	Ice	32
4	1900	Calm	Calm	-	-	Ice	33
5	1900	Calm	Calm	-	-	Ice	32
6	1830	SE-5	Ice	-	-	Ice	32
7	1700	SSE-8	Ice	-	-	Ice	32
8	-	-	-	-	-	-	-
9	1830	W-22	Ice	-	-	Ice	32
10	1800	Calm	Ice	-	-	Ice	32
11	2030	S-8	Ice	-	-	Ice	36
12	1830	Calm	Ice	-	-	Ice	32
13	1830	Calm	Ice	-	-	Ice	32
14	1800	Calm	Ice	-	-	Ice	32
15	1700	SSE-8	Calm	-	-	E-0.16	33
16	1800	SW-5	Calm	-	-	-	33
17	1800	W-15	ESE-1	15	2	E-0.42	33
18	1800	Calm	Calm	-	-	W-0.14	33
19	1800	SW-18	ESE-1	16	2	-	33
20	2000	Calm	Ice	-	-	Ice	32
21	1700	W-20	Ice	-	-	Ice	32
22	1700	S-5	Ice	-	-	Ice	32
23	1800	Calm	Ice	-	-	Ice	32
24	1730	Calm	Ice	-	-	Ice	32
25	1630	W-22	Ice	-	-	Ice	32
26	1800	SSW-5	Ice	-	-	Ice	32
27	1700	SW-8	Ice	-	-	Ice	32
28	1800	Calm	Ice	-	-	Ice	32
29	1700	Calm	Ice	-	-	Ice	32
30	1830	Calm	Ice	-	-	Ice	32
31	1700	NE-5	SW-0.5	10	1	W-0.32	33
Ave	1829	7					32

SUMMARY OF WINTER OBSERVATIONS
AT SANDUSKY BAY

December 1974

MONTH

DATE	TIME	WIND (dir-mph)	BAY TEMP (F°)	SNOW		BAY ICE				
				New (in/24 hrs)	Accum (in)	West (%)	East (%)	Thickness (in)		
									inshore	offshore
1	1600	ENE-35	33	5.00	5	0	0	0	0	
2	1700	NNE-3	33	3.00	8	0	0	0	0	
3	1930	NNW-30	32	Trace	7	1	0	1/4	0	
4	1900	Calm	33	0.00	7	1	0	3/8	0	
5	1900	Calm	32	0.00	7	90	10	1/2	0	
6	1830	SE-5	32	0.00	6.50	100	10			
7	1700	SSE-8	32	0.00	6	100	50	1		
8	-	-	-	-	-	-	-	-	-	
9	1830	W-22	32	Trace	5	100	70			
10	1800	Calm	32	0.00	5	100	85			
11	2030	S-8	36	0.00	4.50	100	90			
12	1830	Calm	32	0.00	0-4	100	75			
13	1830	Calm	32	0.00	0-4	100	70			
14	1800	Calm	32	0.00	0-4	100	70			
15	1700	SSE-8	33	0.00	0-3	90	40			
16	1800	SW-5	33	0.00	0-3	-	-			
17	1800	W-15	33	0.00	0-2	10	5			
18	1800	Calm	33	0.00	0-2	10	10			
19	1800	SW-18	33	1.00	0-3	10	10			
20	2000	Calm	32	0.25	0-3	80	10			
21	1700	W-20	32	3.50	4.50	100	70			
22	1700	S-5	32	0.00	4.50	100	80	1		
23	1800	Calm	32	0.00	0-3	100	60			
24	1730	Calm	32	0.00	0-2	100	50			
25	1630	W-22	32	0.25	0-1	60	10			
26	1800	SSW-5	32	0.00	0-1	50	10			
27	1700	SW-8	32	0.00	0-1	30	10			
28	1800	Calm	32	0.00	0-1					
29	1700	Calm	32	0.00	0-1	40	5			
30	1830	Calm	32	0.00	0	10	5			
31	1700	NE-5	33	0.25	0.25	10	5			
				13.25						
Ave	1829	7	32	0.44	3	62	33			

SUMMARY OF FLOWING WATER WELL OBSERVATIONS

December 1974

MONTH

DATE	STATION NO. 1		STATION NO. 2		STATION NO. 3	
	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)	Rate (gpm)	Temp. (F°)
1	0.93	51	6.00	51	0.36	48
2	-	-	-	-	-	-
3	0.91	50	6.00	50	0.31	45
4	0.90	50	6.00	50	0.31	43
5	0.90	50	6.00	50	0.31	49
6	0.90	50	6.00	50	0.31	49
7	0.90	50	6.00	50	0.31	49
8	-	-	-	-	-	-
9	0.90	50	6.00	50	0.30	49
10	0.90	50	6.00	50	0.30	49
11	0.90	50	6.00	50	0.29	49
12	0.90	50	6.00	50	0.29	49
13	0.91	50	6.00	50	0.28	49
14	0.91	50	6.00	50	0.27	49
15	0.93	50	6.00	51	0.26	49
16	0.93	50	6.00	50	0.27	49
17	0.93	50	6.00	50	0.28	49
18	0.93	50	6.00	50	0.28	49
19	0.93	50	6.00	50	0.28	49
20	0.93	50	6.00	50	0.28	49
21	0.91	50	6.00	50	0.28	49
22	0.91	50	6.00	50	0.28	48
23	0.91	50	6.00	50	0.27	48
24	0.93	51	6.00	50	0.27	47
25	0.93	51	6.00	51	0.26	47
26	0.91	50	6.00	51	0.27	48
27	0.93	50	6.00	50	0.27	48
28	0.93	50	6.00	50	0.27	49
29	0.93	50	6.00	51	0.27	49
30	0.93	51	6.00	51	0.27	49
31	0.93	50	6.00	50	0.27	49
Ave	0.92	50	6.00	50	0.29	48

SUMMARY OF STREAM FLOW OBSERVATIONS

December 1974
MONTH

DATE	STATION NO. 5				STATION NO. 6			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.56	N	-0.25	46	1.59	N	-10.95	34
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15	0.92	N	-0.28	47	1.79	N	-10.35	40
16								
17								
18								
19								
20								
21								
22	0.91	N	-0.30	47	1.47	N	-10.90	40
23								
24								
25								
26								
27								
28								
29	0.98	N	-0.29	47	1.56	N	-10.70	41
30								
31								
Ave	0.84	N	-0.28	47	1.60	N	-10.73	39

SUMMARY OF STREAM FLOW OBSERVATIONS

December 1974

MONTH

DATE	STATION NO. 7				STATION NO. 8			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-4.95	33	0.98	N	-14.60	37
2	-	-	-	-	-	-	-	-
3	0.00	-	-8.00	32	1.49	N	-14.25	33
4	0.00	-	-8.30	32	1.39	N	-14.35	33
5	0.00	-	-8.20	32	2.50	N	-14.40	35
6	0.00	-	-8.10	32	-	-	-14.50	37
7	0.00	-	-8.05	32	1.25	N	-14.55	39
8	-	-	-	-	-	-	-	-
9	0.00	-	-9.00	32	1.79	N	-14.00	33
10	0.23	N	-8.65	33	1.25	N	-14.25	33
11	0.11	N	-8.15	33	1.47	N	-14.40	37
12	0.81	N	-8.35	35	2.13	N	-13.10	34
13	0.00	-	-8.05	37	2.27	N	-13.40	36
14	0.49	N	-8.10	38	2.13	N	-13.55	38
15	0.49	N	-7.60	36	1.79	N	-13.35	36
16	1.67	N	-8.00	37	2.78	N	-11.95	36
17	0.89	N	-8.70	37	2.78	N	-13.05	36
18	0.50	N	-8.60	34	2.50	N	-13.80	35
19	0.63	N	-9.25	34	2.08	N	-14.05	35
20	0.00	-	-8.05	33	1.54	N	-14.20	35
21	0.00	-	-8.00	32	1.39	N	-14.30	35
22	0.19	N	-8.40	33	1.32	N	-14.40	37
23	1.09	N	-8.30	39	2.50	N	-13.30	38
24	2.13	N	-7.35	36	2.22	N	-12.05	36
25	1.92	N	-6.75	34	2.50	N	-11.05	35
26	0.28	N	-8.40	34	2.78	N	-13.65	34
27	0.36	N	-8.55	34	2.27	N	-13.95	36
28	0.28	N	-8.25	36	2.13	N	-14.10	37
29	0.19	N	-8.30	37	1.32	N	-14.15	38
30	0.63	N	-7.90	37	2.50	N	-14.00	38
31	0.24	N	-8.00	35	1.92	N	-13.85	36
Ave	0.45	N	-8.08	34	1.90	N	-13.74	36

SUMMARY OF STREAM FLOW OBSERVATIONS

December 1974

MONTH

DATE	STATION NO. 9				STATION NO. 10			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-5.15	34	-	-	-	34
2	-	-	-	-	-	-	-	-
3	0.00	-	-8.30	32	-	-	-	33
4	0.00	-	-8.60	32	-	-	-	32
5	0.00	-	-8.45	32	-	-	-	32
6	0.00	-	-8.35	32	-	-	-	32
7	0.00	-	-8.35	32	-	-	-	34
8	-	-	-	-	-	-	-	-
9	0.00	-	-8.70	32	-	-	-	33
10	0.00	-	-8.85	32	-	-	-	33
11	0.00	-	-8.00	32	-	-	-	35
12	0.93	N	-8.35	35	-	-	-	34
13	0.00	-	-8.30	37	-	-	-	36
14	0.35	N	-8.35	38	-	-	-	40
15	0.44	N	-7.90	37	-	-	-	39
16	1.27	N	-8.25	36	-	-	-	37
17	0.64	N	-8.60	36	-	-	-	38
18	0.45	N	-8.75	34	-	-	-	35
19	0.36	N	-9.00	33	-	-	-	34
20	0.00	-	-8.35	33	-	-	-	34
21	0.00	-	-8.25	32	-	-	-	33
22	0.13	N	-8.70	35	-	-	-	36
23	0.95	N	-8.35	38	-	-	-	39
24	1.47	N	-7.70	37	-	-	-	36
25	1.19	N	-7.15	35	-	-	-	35
26	0.38	N	-8.65	34	-	-	-	35
27	0.31	N	-8.85	36	-	-	-	37
28	0.25	N	-8.50	37	-	-	-	37
29	0.21	N	-8.65	38	-	-	-	38
30	0.70	N	-8.30	37	-	-	-	38
31	0.31	N	-8.30	36	-	-	-	37
Ave	0.36	N	-8.28	35	-	-	-	35

SUMMARY OF STREAM FLOW OBSERVATIONS

December 1974
MONTH

DATE	STATION NO. 11				STATION NO. 12			
	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)	Rate (ft/sec)	Dir. (N-S)	Stage (ft)	Temp. (F°)
1	0.00	-	-14.10	33	0.93	N	-17.00	33
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15	1.79	N	-14.45	36	2.33	N	-16.00	36
16								
17								
18								
19								
20								
21								
22	1.54	N	-16.00	34	1.92	N	-16.95	35
23								
24								
25								
26								
27								
28								
29	1.67	N	-15.50	37	1.92	N	-16.60	38
30								
31								
Ave	1.25	N	-15.01	35	1.78	N	-16.64	36

PHYSICOCHEMICAL WATER QUALITY DATA

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

11, 12 November 1972

Sampling Period

Station	1972 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
*1	11-11/1150	0.5/ -	-	-	-	-				
2	11-11/1150	1.6/0.15	8.9	8.9	440	375	11.2	11.0		
3	11-11/1210	1.8/0.17	8.1	7.8	420	400	11.2	11.2		
4	11-11/1225	1.8/0.14	8.9	8.9	385	390	11.3	11.2		
*5	11-11/1200	0.5/ -	-	-	-	-				
6	11-11/1245	1.8/0.19	8.6	8.6	525	525	10.2	10.1		
7	11-11/1300	2.0/0.16	8.4	8.4	550	550	10.8	10.4		
8	11-11/1315	2.2/0.16	8.9	8.9	425	420	10.9	10.8		
9	11-11/1325	2.1/0.18	8.9	8.9	385	390	11.3	11.3		
*10	11-11/ -	0.5/ -	-	-	-	-				
11	11-12/1110	1.9/0.20	8.4	8.1	520	520				
12	11-12/1120	2.2/0.16	8.6	8.4	440	445				
13	11-12/1130	2.3/0.15	8.6	8.1	510	505				
14	11-12/1135	2.4/0.15	8.6	8.9	410	400				
15	11-12/1145	2.5/0.17	8.6	8.1	400	400				
* 16	11-11/0940	0.5/ -	-	-	-	-				
17	11-11/1345	1.9/0.18	8.6	8.1	540	530	10.7	10.6	62	
18	11-11/1400	2.1/0.16	8.9	8.9	440	435	10.3	10.3		
19	11-11/1415	2.2/0.17	8.6	8.8	430	430	10.3	10.3		
20	11-11/1430	2.3/0.17	8.9	8.9	390	400	10.8	10.7		
21	11-11/1445	2.5/0.17	8.9	8.9	390	390	10.9	10.9	115	
* 22	11-11/1000	0.5/ -	-	-	-	-				
23	11-12/1230	2.2/0.18	8.6	8.6	500	500				
24	11-12/1245	2.4/0.11	8.9	8.6	390	390				
25	11-12/1300	2.6/0.13	8.9	8.9	380	380				
26	11-12/1315	2.6/0.17	8.9	8.9	255	365				
27	11-12/1320	2.7/0.16	8.9	8.9	400	425				
* 28	11-11/1020	0.5/ -	-	-	-	-				
29	11-11/1500	2.2/0.18	8.9	8.6	540	540	10.8	10.7		
30	11-11/1515	2.4/0.14	8.9	8.9	400	410	10.7	10.4		
31	11-11/1530	2.4/0.12	8.9	8.9	410	420	10.8	10.5		
32	11-11/1545	2.6/0.19	8.9	8.9	510	510	10.6	10.5		
33	11-12/0930	2.0/0.16	8.8	8.9	435	435			110	
34	11-12/1015	1.0/0.16	8.1	8.4	650	650			69	
35	11-12/1340	2.7/0.18	8.9	8.9	460	470			83	
36	11-12/1400	2.6/0.26	8.1	8.1	550	550			45	
37	11-12/1430	3.8/1.52	8.6	8.6	515	530			15	
38										
39										
40										
41										
42										

* Shore Stations

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

11, 12 November 1972

Sampling Period

Station	1972 Date/Time	(m) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	11-11/1345	1.9/0.18	8.34		130		240			
18										
19										
20										
21	11-11/1445	2.5/0.17	8.37		110					
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	11-12/0930	2.0/0.16	8.35		113					
34	11-12/1015	1.0/0.16	8.12		170					
35	11-12/1340	2.7/0.18	8.34		124					
36	11-12/1400	2.6/0.26	8.46		132					
37	11-12/1430	3.8/0.52	8.52		120					
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

23, 24 March 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	3-24/1250	1.0/0.15	7.8	-	425	-				
6	3-23/1700	2.2/0.24	6.4	6.4	425	430				
7										
8	3-23/1745	2.0/0.21	5.9	6.1	390	400				
9										
10										
11										
12										
13										
14										
15										
16	3-24/1030	1.5/0.15	5.6	-	420	-				
17	3-24/1015	2.0/0.12	5.6	5.6	400	400				
18										
19	3-24/0950	2.5/0.18	6.7	6.7	370	370				
20										
21	3-24/0900	3.0/0.12	6.7	6.7	330	330				
22										
23										
24										
25										
26										
27										
28										
29	3-24/1100	3.0/0.18	6.1	6.1	365	370				
30										
31	3-24/1115	3.0/0.21	5.6	5.6	390	380				
32										
33	3-23/1810	2.0/0.21	6.7	6.7	425	425				
34										
35	3-23/1330	3.0/0.24	5.6	5.5	450	460				
36	3-23/1300	3.0/0.24	5.3	5.3	490	490				
37										
38	3-23/1200	4.7/0.27	5.3	4.7	550	550				
39	3-24/1600	2.0/0.03	8.4	-	-	-				
40	3-24/1630	1.3/0.03	8.4	-	-	-				
41	3-24/1715	0.2/0.2	6.1	-	-	-				
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

9, 10 May 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	5-9/1455	1.25/0.30	16.4	15.6	530	600				
6	5-9/1435	2.25/0.24	16.1	15.6	530	530				
7										
8	5-9/1415	2.75/0.24	16.1	15.6	520	520				
9										
10										
11										
12										
13										
14										
15										
16	5-9/1525	2.60/0.24	16.1	15.6	530	530				
17	5-9/1555	2.75/0.23	15.6	15.6	540	540	14		45	
18										
19	5-9/1615	3.25/0.24	15.0	15.0	550	550				
20										
21	5-9/1650	3.25/0.18	15.3	15.0	530	530	16		60	
22										
23										
24										
25										
26										
27										
28										
29	5-9/1725	3.00/0.21	15.3	15.0	520	530				
30										
31	5-9/1710	3.00/0.18	15.6	15.6	520	520				
32										
33	5-9/1330	2.75/0.23	16.1	15.6	540	540	13		48	
34										
35	5-10/1115	4.00/0.24	15.6	15.3	510	510	13		48	
36	5-10/1200	2.80/0.27	15.6	15.6	500	510	12		41	
37										
38	5-9/0800	4.00/ -							32	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

19, 20, 21, June 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	6-19/1000	1.2/0.18	22.8	21.1	520	580			81	
6	6-19/0945	2.5/0.18	22.8	23.1	460	460				
7										
8	6-19/0925	2.4/0.18	23.4	23.4	470	470				
9										
10										
11										
12										
13										
14										
15										
16	6-19/1020	1.6/0.21	23.4	23.1	520	520				
17	6-19/1030	2.5/0.18	23.1	22.8	500	500	7		61	
18										
19	6-19/1100	2.6/0.27	23.4	23.4	520	520				
20										
21	6-19/1125	2.8/0.27	23.6	23.4	460	460	8		41	
22										
23										
24										
25										
26										
27										
28										
29	6-19/1305	2.8/0.24	23.4	23.9	540	540				
30										
31	6-19/1245	3.0/0.27	23.4	23.4	500	500				
32										
33	6-19/0830	2.5/0.15	23.4	23.4	500	500			78	
34										
35	6-19/1325	3.1/0.27	23.9	23.9	480	480	9		48	
36	6-20/0920	2.7/0.27	23.4	23.4	380	380	9		40	
37	6-19/1155	2.9/0.27	23.4	23.4	450	460			57	
38	6-20/0815	4.0/0.30	22.2	22.2	410	360	11		27	
39	6-19/1515	1.8/0.18	22.2	21.1	800	950	7		60	
40	6-19/1545	1.3/0.21	22.2	22.5	800	775	7		47	
41	6-21/1600		13.4				15			
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

29 June 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	6-29/1320	2.3/0.15	22.2	22.0			11		41	
18										
19										
20										
21	6-29/1245	2.6/0.43	22.2	21.7			13		24	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	6-29/1225	2.2/0.09	22.2	22.2			8		120	
34										
35										
36										
37										
38										
39	6-29/1230	1.8/ -	17	17					2400	
40	6-29/1250	1.8/ -	18	18			10		210	
41										
42										
43	6-29/1410	1.5/ -	19	19			12		195	
44	6-29/1325	0.7/ -	19	19			11		210	

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13 July 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	7-13/1045	1.9/0.18	23.4	23.4	580		9		31	
18										
19										
20										
21	7-13/0915	2.3/0.12	23.4	22.8	560		9		31	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	7-13/0840	1.8/0.12			500		9		110	
34										
35										
36										
37										
38										
39	7-13/0930	1.5/ -	18.0	18.0	1380		7		37	
40	7-13/0945	0.9/ -	18.0		1120		9		61	
41	7-13/1400	-	16.4		2700		3		4.5	
42	7-13/0740	-	11.0		2000		10		0.25	
43	7-13/1015	0.3/ -	18		1690		7		26	
44	7-13/1000	0.3/ -	17		910		-		30	

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

30 July 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	7-30/1010	2.1/0.27			190					
18										
19										
20										
21	7-30/1035	2.5/0.27			240					
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	7-30/0930	2.1/0.09			230					
34										
35	7-30/1105	2.7/0.40			250					
36										
37										
38										
39	7-30/1240	1.2/0.18			270					
40	7-30/1255	0.9/0.18			260					
41	7-30/1355				260					
42	7-30/1305				250					
43	7-30/1330				250					
44	7-30/1315				260					

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

.13 July 1973
Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Calcium (CaCO ₃) (ppm)		Orthophosphate (ppm)		Nitrogen Nitrates (ppm)		Sulfate (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	7-13/1045	1.9/0.18	170		1.8		13		190	
18										
19										
20										
21	7-13/0915	2.3/0.12	170		3.1		11		160	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	7-13/0840	1.8/0.12	140		0.9		12		280	
34										
35										
36										
37										
38										
39	7-13/0930	1.5/ -	490		0.3		7		500	
40	7-13/0945	0.9/ -	260		2.4		12		265	
41	7-13/1400	-	820		0.7		9		1500	
42	7-13/0740	-	1000		1.2		9		1750	
43	7-13/1015	0.3/ -	590		1.1		10		160	
44	7-13/1000	0.3/ -	530		0.9		12		240	

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

13 July 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	7-13/1045	1.9/0.18	8.4		90					
18										
19										
20										
21	7-13/0915	2.3/0.12	8.5		120					
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	7-13/0840	1.8/0.12	7.5		130					
34										
35										
36										
37										
38										
39	7-13/0930	1.5/ -	7.5		270					
40	7-13/0945	0.9/ -	7.7		250					
41	7-13/1400	-	7.3		240					
42	7-13/0740	-	6.9		260					
43	7-13/1015	0.3/ -	7.5		260					
44	7-13/1000	0.3/ -	7.1		230					

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

30 July 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	7-30/1010	2.1/0.27	23.9	23.4			9		23	
18										
19										
20										
21	7-30/1035	2.5/0.27	23.4	23.4			9		38	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	7-30/0930	2.1/0.09	23.4	23.4			8		61	
34										
35	7-30/1105	2.7/0.40	23.4	23.4			9		19	
36										
37										
38										
39	7-30/1240	1.2/0.18	21.1	-			10		35	
40	7-30/1255	0.9/0.18					8		27	
41	7-30/1355		12.2				-		7	
42	7-30/1305		12.2				-		12	
43	7-30/1330	0.5/ -	20.0				6		37	
44	7-30/1315	0.4/ -	24.5				-		19	

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13, 16, 17 August 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	8-16/1600	0.9/0.18	27.0	26.0			18	18	43	
6	8-16/1545	2.0/0.18	25.0	24.0			15	14		
7										
8	8-16/1525	2.0/0.15	25.5	24.0			13	8	42	
9										
10										
11										
12										
13										
14										
15										
16	8-16/1325	1.3/0.18	27.0	25.0			17	11	53	
17	8-16/1300	2.1/0.21	26.5	24.0			16	9		
18										
19	8-16/1345	2.4/0.31	27.0	24.0			17	8	63	
20										
21	8-16/1005	2.4/0.27	23.0	23.0			10	10	52	
22										
23										
24										
25										
26										
27										
28										
29	8-16/1430	2.4/0.21	26.0	24.0			17	10	33	
30										
31	8-16/1445	2.5/0.31	26.5	24.0					25	
32										
33	8-16/1510	2.0/0.18	26.5	24.0					39	
34										
35	8-16/1110	2.5/0.27	24.5	24.0						
36	8-16/1155	2.4/0.18	25.0	24.0						
37	8-16/1030	2.4/0.27	24.0	23.5						
38	8-17/0900	3.6/0.34	23.0	23.0						
39	8-13/1115	1.5/0.31	22.5	22.5						
40	8-13/1055	1.0/0.27	24.5	24.5						
41	8-13/1220	0.3/bottom+	12.7							
42	8-13/1045	-	13.2							
43	8-13/1135	0.3/bottom+	17.4							
44	8-13/1150	0.2/bottom	24.8							

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13, 16, 17 August 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	8-16/1600	0.9/0.18	7.2		257				1.1	
6	8-16/1545	2.0/0.18	7.8		274				1.3	
7										
8	8-16/1525	2.0/0.15	7.3		291				1.2	
9										
10										
11										
12										
13										
14										
15										
16	8-16/1325	1.3/0.18			188				0.8	
17	8-16/1300	2.1/0.21	7.9		239				0.7	
18										
19	8-16/1345	2.4/0.31	6.7		274				5.2	
20										
21	8-16/1005	2.4/0.27			222				0.6	
22										
23										
24										
25										
26										
27										
28										
29	8-16/1430	2.4/0.21			274				0.6	
30										
31	8-16/1445	2.5/0.31	7.8		325				0.65	
32										
33	8-16/1510	2.0/0.18	7.4		393				2.7	
34										
35	8-16/1110	2.5/0.27	7.6		376				0.48	
36	8-16/1155	2.4/0.18	7.6		291				0.51	
37	8-16/1030	2.4/0.27	7.7		308				0.35	
38	8-17/0900	3.6/0.34	7.7							
39	8-13/1115	1.5/0.31	8.5							
40	8-13/1055	1.0/0.27	8.3							
41	8-13/1220	0.3/bottom+	8.4							
42	8-13/1045	-	8.0							
43	8-13/1135	0.3/bottom+	8.4							
44	8-13/1150	0.2/bottom+	8.2							

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13, 16, 17 August 1973

Sampling Period

Station	1973 Date/Time	Sulfate (ppm)		carbon dioxide (ppm)		orthophos- phate (ppm)		Nitrate (ppm)		Magnesium	
		S	B	S	B	S	B	S	B	S	B
1											
2											
3											
4											
5	8-16/1600	225		0-5		0.12		9		0.3	
6	8-16/1545	175		0-5		0.10		4		0.0	
7											
8	8-16/1525	300		0-5		0.25		6		0.0	
9											
10											
11											
12											
13											
14											
15											
16	8-16/1325	200		0-5		0.15		11		0.0	
17	8-16/1300	200		0-5		0.15		8		0.0	
18											
19	8-16/1345	180		0-5		0.12		8		0.0	
20											
21	8-16/1005	160		0-5		0.10		10		0.1	
22											
23											
24											
25											
26											
27											
28											
29	8-16/1430	200		0-5		0.15		10		0.0	
30											
31	8-16/1445	190		0-5		0.10		12		1.0	
32											
33	8-16/1510	160		0-5		0.15		12		0.3	
34											
35	8-16/1110	140		0-5		0.05		11		0.3	
36	8-16/1155	160		0-5		0.10		10		0.4	
37	8-16/1030	200		5-10		2.8		13		0.0	
38	8-17/0900	65		5-10		0.01		2			
39	8-13/1115					0.18		10			
40	8-13/1055					0.05		8			
41	8-13/1220					0.08		10			
42	8-13/1045					0.18		11			
43	8-13/1135					0.45		12			
44	8-13/1150					0.18		13			

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

9, 10, 13, 18 July 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1	7-9/1450	1.6/0.27	27.2	26.7	570		10		34	
2										
3	7-9/1515	1.8/0.30	27.2	26.7	500		8		75	
4	7-9/1530	2.2/0.15	26.7	25.9						
5	7-10/1445	1.1/0.15	25.9	25.0	1000		10		54	
6	7-10/1430	1.6/0.21	27.2	26.1						
7	7-10/1515	2.1/0.27	26.7	26.7						
8	7-10/1530	2.1/0.18	25.9	26.4						
9	7-10/1545	2.1/0.18	26.1	26.1	530		9		94	
10	7-10/0930	1.4/0.18	26.7	26.4	590				31	
11	7-10/1000	2.2/0.24	26.7	26.7						
12	7-10/1230	2.3/0.24	26.7	26.1						
13	7-10/1245	2.4/0.30	26.7	26.7						
14	7-10/1255	2.5/0.15	26.4	26.1						
15	7-10/1320	2.4/0.18	27.2	26.4	556		13		52	
16	7-18/1350	1.71/0.21	28.9	27.2						
17	7-18/1330	2.4/0.21	28.4	26.1	525		16		33	
18	7-18/1315	2.6/0.24	27.8	25.0						
19	7-18/1300	2.6/0.27	26.1	25.6						
20	7-10/1410	2.7/0.30	27.5	26.4						
21	7-10/1345	2.7/0.21	27.5	26.7	530		10		36	
22	7-18/1405	1.8/0.27	28.5	26.1	510		19		40	
23	7-18/1430	2.1/0.24	28.4	26.1						
24	7-18/1440	2.5/0.21	28.9	25.6						
25	7-18/1450	2.6/0.27	28.9	25.6						
26	7-18/1500	2.6/0.43	28.9	25.0						
27	7-18/1510	2.7/0.61	28.4	25.0	500		21		16	
28	7-9/1240	2.2/0.27	27.8	27.8	590		13		29	
29	7-9/1300	2.6/0.30	27.2	27.0						
30	7-9/1315	2.6/0.43	27.5	26.7						
31	7-9/1330	2.8/0.40	27.2	25.6						
32	7-9/1345	2.9/0.33	27.2	27.0			11			
33	7-9/1555	2.3/0.18	26.4	25.9	510		9		64	
34										
35	7-9/1135	3.1/0.37	26.7	26.1	580		13		21	
36	7-18/1030	2.5/0.27	24.5	25.0	440		16		32	
37	7-18/0930	2.7/0.27	24.7	24.7	490		15		31	
38	7-18/1110	3.9/0.18	27.2	25.6			17			
39										
40	7-18/1600	- /0.21	30.0	87.2						
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

9, 10, 13, 18 July 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	Calcium (ppm CaCO ₃)		Orthophosphate (ppm)		Nitrogen Nitrate (ppm)		Sulfate (ppm)	
			S	B	S	B	S	B	S	B
1	7-9/1450	1.6/0.27	170		0.05		10		170	
2										
3										
4	7-9/1530	2.2/0.15	155		0.37		10		130	
5	7-10/1445	1.1/0.15	330		1.48		35		290	
6										
7										
8										
9	7-10/1545	2.1/0.18	210		0.45		37		200	
10	7-10/0930	1.4/0.18	200		0.15		25		210	
11										
12										
13										
14										
15	7-10/1320	2.4/0.18	180		0.19		45		160	
16										
17	7-18/1330	2.4/0.21	-		1.8		12		175	
18										
19										
20										
21	7-10/1345	2.7/0.21	170		0.09		34		140	
22	7-18/1405	1.8/0.27	-		0.1		9		200	
23										
24										
25										
26										
27	7-18/1510	2.7/0.61	-		0.0		15		200	
28	7-9/1240	2.2/0.27	175		0.3		8		205	
29										
30										
31										
32										
33	7-9/1555	2.3/0.18	162		0.38		8		140	
34										
35	7-9/1135	3.1/0.37	175		0.07		8		145	
36	7-18/1030	2.5/0.27	250		1.0		8		175	
37	7-18/0930	2.7/0.27	240		3.6		11		145	
38										
39	7-13/0930	1.5/ -	490		0.3		7		500	
40	7-18/1600	- /0.21	260		2.4		12		265	
41	7-13/ -	-	820		0.7		9		1000	
42	7-13/0740	-	1000		1.2		9		1750	
43	7-13/1015	-	590		1.1		10		160	
44	7-13/1000	-	530		0.9		12		240	

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

9, 10, 18 July 1973

Sampling Period

Station	1973 Date/Time	(m) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1	7-9/1450	1.6/0.27	7.9		130					
2										
3										
4	7-9/1530	2.2/0.15	7.8		140					
5	7-10/1445	1.1/0.15	7.5		190					
6										
7										
8										
9	7-10/1545	2.1/0.18	7.8		140					
10	7-10/0930	1.4/0.18	7.5		160					
11										
12										
13										
14										
15	7-10/1320	2.4/0.18	8.1		140					
16										
17	7-18/1330	2.4/0.21	7.3		140					
18										
19										
20										
21	7-10/1345	2.7/0.21	8.0		145					
22	7-18/1405	1.8/0.27	7.4		110					
23										
24										
25										
26										
27	7-18/1510	2.7/0.61	7.6		105					
28	7-9/1240	2.2/0.27	8.3		120					
29										
30										
31										
32										
33	7-9/1555	2.3/0.18	7.4		135					
34										
35	7-9/1135	3.1/0.37	8.3		130					
36	7-18/1030	2.5/0.27	7.4		105					
37	7-18/0930	2.7/0.27	7.2		115					
38										
39	7-13/0930	1.5/ -	7.5		270					
40	7-18/1600	- /0.21	7.7		250					
41	7-13/ -		7.3		240					
42	7-13/0740		6.9		260					
43	7-13/1015		7.5		260					
44	7-13/1000		7.1		230					

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

27, 28 August 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	8-28/1345	1.1/ -	27		560		10	8	44	
6	8-28/1330	2.4/ -	27	25	540		14	10	25	
7										
8	8-28/1315	2.4 / -	26	25	530		13	8	26	
9										
10										
11										
12										
13										
14										
15										
16	8-28/1220	1.7/ -	26	26	540		10	8	31	
17	8-28/1235	2.4/ -	26	26	500		15	10	28	
18										
19	8-28/1250	2.8/ -	26	25	490		14	9	26	
20										
21	8-28/1035	2.5/ -	25	25	495		9	9	22	
22										
23										
24										
25										
26										
27										
28										
29	8-28/1205	2.7/ -	26	26	500		13	9	25	
30										
31	8-28/1150	2.9/ -	26	25	500		12	10	24	
32										
33	8-28/1005	2.2/ -	25	25	530		8	7	61	
34										
35	8-28/1125	3.0/ -	26	25	490		10	10	21	
36										
37	8-28/1100	2.9/ -	25	25	495		10	9	24	
38										
39	8-27/1100	1.7/ -	24	22	1800		10	9	28	
40	8-27/1120	1.2/ -	25	25	1950		6	7	110	
41	8-27/1030	0.4/ -	14		2400		5		9	
42	8-27/1140	-	12		2600		1		4	
43	8-27/1010	0.3/ -	22		1175		7		25	
44	8-27/0955	0.2/ -	25		2600		7		15	

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

27, 28 August 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		S	B	S	B
			S	B	S	B				
1										
2										
3										
4										
5	8-28/1345	1.1/ -			137					
6	8-28/1330	2.4/ -			137					
7										
8	8-28/1315	2.4/ -			103					
9										
10										
11										
12										
13										
14										
15										
16	8-28/1220	1.7/ -			137					
17	8-28/1235	2.4/ -			103					
18										
19	8-28/1250	2.8/ -			103					
20										
21	8-28/1035	2.5/ -			103					
22										
23										
24										
25										
26										
27										
28										
29	8-28/1205	2.7/ -			103					
30										
31	8-28/1150	2.9/ -			120					
32										
33	8-28/1005	2.2/ -			137					
34										
35	8-28/1125	3.0/ -			103					
36										
37	8-28/1100	2.9/ -			120					
38										
39	8-27/1100	1.7/ -	7.3		239					
40	8-27/1120	1.2/ -	6.7		188					
41	8-27/1030	0.4/ -	7.2		154					
42	8-27/1140	-	7.0		257					
43	8-27/1010	0.3/ -	7.5		154					
44	8-27/0955	0.2/ -	7.2		239					

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

10 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	9-10/1415	2.2/0.15	22.0	21.5	540		9.6	6.4	33	
18										
19										
20										
21	9-10/1030	2.6/0.18	23.5	23.5	440		7.4	6.4	34	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	9-10/0955	2.1/0.18	21.0	21.0	490		7.2	6.0	43	
34										
35	9-10/1145	2.7/0.37	22.0	22.0	440		9.2	7.1	2.2	
36	9-10/1225	2.7/0.18	22.0	22.0	365		8.8	8.8	25	
37	9-10/1110	2.8/0.28	22.0	22.0	500		8.8	7.4	28	
38	9-10/1300	3.8/0.40	23.0	22.0	375		10.0	6.4	18	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

10 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity		Total Hardness		Silica (ppm)	
			S	B	pheno	total	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	9-10/1415	2.2/0.15	6.7		17	103			0.5	
18										
19										
20										
21	9-10/1030	2.6/0.18	7.5		17	103			0.4	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	9-10/0955	2.1/0.18	7.7		0	120			1.0	
34										
35	9-10/1145	2.7/0.37	7.9		17	103			0.4	
36	9-10/1225	2.7/0.18	7.7		17	103			0.5	
37	9-10/1110	2.8/0.28	6.6		17	103			0.4	
38	9-10/1300	3.8/0.40	7.2		17	90			0.5	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

10 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	carbon dioxide (ppm)		Sulfate (ppm)		S	B	S	B
			S	B	S	B				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	9-10/1415	2.2/0.15	5-10		1.8					
18										
19										
20										
21	9-10/1030	2.6/0.18	5-10		2.3					
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	9-10/0955	2.1/0.18	10-15		1.6					
34										
35	9-10/1145	2.7/0.37	0-5		2.3					
36	9-10/1225	2.7/0.18	5-10		2.2					
37	9-10/1100	2.8/0.28	15-20		2.4					
38	9-10/1300	3.8/0.40	0-5		3.3					
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	9-13/1110	1.1/0.15	20.0	20.0	500		8.8	8.8	53	
6	9-13/1055	2.2/0.27	20.0	20.0	440		9.5	9.1	35	
7										
8	9-13/1040	2.3/0.24	19.0	19.0	435		8.8	8.2	35	
9										
10										
11										
12										
13										
14										
15										
16	9-13/1000	1.5/0.18	19.5	20.0	560		6.4	6.0	48	
17	9-13/1015	2.3/0.18	19.5	19.5	590		7.6	7.8	35	
18										
19	9-13/1025	2.5/0.24	19.0	19.0	580		19.0	19.0	28	
20										
21	9-13/0850	0.7/0.21	19.0	19.0	450		19.0	19.0	33	
22										
23										
24										
25										
26										
27										
28										
29	9-13/0930	2.6/0.24	19.5	19.5	500		19.5	19.5	23	
30										
31	9-13/0905	2.7/0.30	19.5	19.8	540		19.5	19.8	28	
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity (ppm)		Total Hardness		Silica (ppm)	
			S	B	pheno	total	S	B	S	B
1										
2										
3										
4										
5	9-13/1110	1.1/0.15	8.4		17	120			0.7	
6	9-13/1055	2.2/0.27	8.4		17	103			0.6	
7										
8	9-13/1040	2.3/0.24	8.5		0	103			0.8	
9										
10										
11										
12										
13										
14										
15										
16	9-13/1000	1.5/0.18	7.7		0	103			0.5	
17	9-13/1015	2.3/0.18	8.3		0	103			0.6	
18										
19	9-13/1025	2.5/0.24	8.3		0	103			0.5	
20										
21	9-13/0850	2.7/0.21	8.4		0	103			0.15	
22										
23										
24										
25										
26										
27										
28										
29	9-13/0930	2.6/0.24	8.5		0	103			0.4	
30										
31	9-13/0905	2.7/0.30	8.5		0	103			0.3	
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

13 September 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	carbon dioxide (ppm)		Orthophosphate (ppm)		S	B	S	B
			S	B	S	B				
1										
2										
3										
4										
5	9-13/1110	1.1/0.15	10-15		0.10					
6	9-13/1055	2.2/0.27	5-10		0.10					
7										
8										
9										
10										
11										
12										
13										
14										
15										
16	9-13/1000	1.5/0.18	5-10		0.10					
17	9-13/1015	2.3/0.18	5-10		0.05					
18										
19	9-13/1025	2.5/0.24	5-10		0.17					
20										
21	9-13/0850	2.7/0.21	5-10		0.05					
22										
23										
24										
25										
26										
27										
28										
29	9-13/0930	2.6/0.24	0-5							
30										
31	9-13/0905	2.7/0.30	0-5							
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

24 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Orthophosphate (ppm)		Nitrate (ppm)		Sulfate (ppm)			
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	10-24/1120	2.1/0.27	0.08		11.5		240			
18										
19										
20										
21	10-24/0955	2.6/0.30	0.25		12.0		210			
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	10-24/1045	1.9/0.21	0.01		4.0		240			
34										
35	10-24/0910	2.5/0.40	0.35		10.5		220			
36	10-24/0830	2.8/0.43	0.1		8.0		160			
37	10-24/1020	2.5/0.30	0.2		6.0		230			
38	10-24/0745	3.6/0.43	0.15		18.0		48			
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

24 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity		Total Hardness		Silica (ppm)	
			S	B	pheno	total	S	B	S	B
					S	B				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	10-24/1120	2.1/0.27				0	137			1.0
18										
19										
20										
21	10-24/0955	2.6/0.30	7.0			0	137			0.7
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	10-24/1045	1.9/0.21	6.3			0	154			0.6
34										
35	10-24/0910	2.5/0.40	6.5			0	137			1.3
36	10-24/0830	2.8/0.43				0	120			1.3
37	10-24/1020	2.5/0.30	6.8			0	137			0.6
38	10-24/0745	3.6/0.43	6.4			0	120			0.9
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

24 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JT,U)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	10-24/1120	2.1/0.27	13.0	12.9	700		11.1	11.4	25	
18										
19										
20										
21	10-24/0955	2.6/0.30	12.0	12.0	600		11.1	11.2	18	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	10-24/1045	1.9/0.21	13.0	12.9	600		11.5	11.2	22	
34										
35	10-24/0910	2.5/0.40	12.0	12.0	550		10.4	10.2	20	
36	10-24/0830	2.8/0.43	12.2	12.0	440		10.6	8.4	17	
37	10-24/1020	2.5/0.30	12.0	12.0	580		11.2	11.2	17	
38	10-24/0745	3.6/0.43	13.0	13.0	360		9.7	9.2	18	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

12 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity		Total Hardness		Silica (ppm)	
			S	B	Pheno	total	S	B	S	B
1										
2										
3										
4										
5	10-12/1350	0.9/0.18	8.5		17	120			0.9	
6	10-12/1335	2.1/0.27	8.5		0	137			0.6	
7										
8	10-12/1305	2.1/0.27	8.5		0	137			0.7	
9										
10										
11										
12										
13										
14										
15										
16	10-12/1205	1.3/0.27	8.4		0	137			0.8	
17	10-12/1225	2.2/0.27	8.3		17	154			0.9	
18										
19	10-12/1240	- /0.30	8.4		0	137			0.9	
20										
21	10-12/1020	2.7/0.30	8.4		0	137			0.85	
22										
23										
24										
25										
26										
27										
28										
29	10-12/1030	2.5/0.20	8.4		0	137			1.1	
30										
31	10-12/1040	2.6/0.33	8.3		0	137			0.3	
32										
33	10-12/0940	1.9/0.18	8.4		0	154			8.5	
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

12 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Carbon Dioxide (ppm)		Orthophosphate (ppm)		Nitrate		S	B
			S	B	S	B	S	B		
1										
2										
3										
4										
5	10-12/1350	0.9/0.18	0		0.12		11.5			
6	10-12/1335	2.1/0.27	0		0.05					
7										
8	10-12/1305	2.1/0.27	0		0.15					
9										
10										
11										
12										
13										
14										
15										
16	10-12/1205	1.3/0.27	0		0.10					
17	10-12/1225	2.2/0.27	0		0.10		11			
18										
19	10-12/1240	- /0.30	0		0.10					
20										
21	10-12/1020	2.7/0.30	0		0.15					
22										
23										
24										
25										
26										
27										
28										
29	10-12/1030	2.5/0.20	0		0.05					
30										
31	10-12/1040	2.6/0.33	0		0.15					
32										
33	10-12/0940	1.9/0.18	0		0.10		10			
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

12 October 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	10-12/1350	0.9/0.18	20.0	20.0	470		9.8	9.8	42	
6	10-12/1335	2.1/0.27	19.0	19.0	520		8.6	8.0	26	
7										
8	10-12/1305	2.1/0.27	19.0	18.5	510		11.8	11.2	31	
9										
10										
11										
12										
13										
14										
15										
16	10-12/1205	1.3/0.27	19.5	19.0	510		9.8	9.4	22	
17	10-12/1225	2.2/0.27	19.5	19.0	460		9.2	8.8	25	
18										
19	10-12/1240	- /0.30	18.5	18.5	420		9.2	8.8	25	
20										
21	10-12/1020	2.7/0.30	17.0	17.0	440		8.8	8.6	19	
22										
23										
24										
25										
26										
27										
28										
29	10-12/1130	2.5/0.27	18.5	17.0	440		9.6	9.2	21	
30										
31	10-12/1040	2.6/0.33	18.0	18.0	440		9.0	8.8	29	
32										
33	10-12/0940	1.9/0.18	18.5	18.0	520		8.6	8.2	41	
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

25 October 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	Temperature °C		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JT.U)	
			S	B	S	B	S	B	S	B
1										
2	10-25/1135	1.6/0.50	9.5	9.5	525	530	12.2	12.2	12	15
3										
4										
5	10-25/1115	1.0/0.45	9.5	9.5	500	525	11.8	11.8	10	15
6										
7										
8										
9										
10										
11	10-25/1100	0.8/0.40	9.5	9.5	530	500	11.8	11.8	17	17
12										
13										
14										
15										
16										
17	10-25/1045	1.9/0.50	10.0	9.5	500	550	11.6	11.6	20	18
18										
19										
20										
21	10-25/1300	2.3/0.50	9.0	9.0	500	500	12.0	12.0	12	25
22										
23	10-25/1020	2.0/0.60	9.0	9.0	525	500	12.2	12.2	10	10
24										
25										
26										
27										
28										
29	10-25/1000	2.0/0.60	9.5	9.0	550	550	12.0	12.0	10	15
30										
31										
32										
33	10-25/1200	1.9/0.35	10.5	9.5	550	500	11.4	11.2	20	15
34	10-25/1220	1.6/0.35	10.5	10.5	525	600	11.6	11.6	20	23
35	10-25/1340	2.6/0.55	9.5	9.5	450	425	11.5	11.5	14	20
36	10-25/1410	2.7/0.70	9.5	9.5	400	425	11.7	11.7	10	9
37	10-25/1320	2.2/0.50	10.0	9.5	510	510	11.4	11.6	12	12
38	-	-	-	-	-	-	-	-	-	-
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

25 October 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	pH		Alkalinity (ppm)		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	10-25/1135	1.6/0.50	8.3	8.3						
3										
4										
5	10-25/1115	1.0/0.45	8.3	8.4						
6										
7										
8										
9										
10										
11	10-25/1100	0.8/0.40	8.3	8.3						
12										
13										
14										
15										
16										
17	10-25/1045	1.9/0.50	8.2	8.3	140	150	340	340	0.15	0.2
18										
19										
20										
21	10-25/1300	2.3/0.50	8.3	8.3	140	130	340	340	0.70	0.80
22										
23	10-25/1020	2.0/0.60	8.3	8.3						
24										
25										
26										
27										
28										
29	10-25/1000	2.0/0.60	8.3	8.3						
30										
31										
32										
33	10-25/1200	1.9/0.35	8.2	8.3	140	140	350	355	0.45	0.45
34	10-25/1200	1.6/0.35	8.3	8.3	150	155	370	375	0.10	0.10
35	10-25/1340	2.6/0.55	8.2	8.2	125	120	250	260	0.85	0.90
36	10-25/1410	2.7/0.70	8.1	8.1	120	120	250	260	0.80	0.70
37	10-25/1320	2.2/0.50	8.2	8.2	140	130	360	355	1.10	1.20
38	-	-	-	-	-	-	-	-	-	-
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

17. November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	11-17/1340	0.8/0.30	6	6	850		14	13	21	
6	11-17/1310	1.9/0.27	6	6	530		13	14	22	
7										
8	11-17/1245	1.9/0.40	6	6	440		14	13	27	
9										
10										
11										
12										
13										
14										
15										
16	11-17/1100	1.2/0.15	5	5	480		11	10	30	
17	11-17/1000	1.6/0.33	5	5	430		11	12	20	
18										
19	11-17/0915	2.5/0.15	5	5	460		12	11	17	
20										
21	11-17/1230	2.4/0.49	6	6	440		13	13	17	
22										
23										
24										
25										
26										
27										
28										
29	11-17/1120	2.2/0.21	5	5	435		11	11	33	
30										
31	11-17/1140	2.4/0.21	6	5.5	440		10	10	33	
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

17 November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	11-17/1340	0.8/0.30	6.7		0	171			100	
6	11-17/1310	1.9/0.27	7.8		0	137			90	
7										
8	11-17/1245	1.9/0.40	7.6		0	137			240	
9										
10										
11										
12										
13										
14										
15										
16	11-17/1100	1.2/0.15	7.9		0	137			90	
17	11-17/1000	1.6/0.33	8.0		0	137			100	
18										
19	11-17/0915	2.5/0.15	8.2		0	137			120	
20										
21	11-17/1230	2.4/0.49	8.0		0	120			25	
22										
23										
24										
25										
26										
27										
28										
29	11-17/1120	2.2/0.21	7.7		0	137			35	
30										
31	11-17/1140	2.4/0.21	7.8		0	120			30	
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

17. November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Orthophosphate (ppm)		Nitrate (ppm)		Sulfate (ppm)		Carbon Dioxide (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5	11-17/1340	0.8/0.30	0.05		.025		300		0-5	
6	11-17/1310	1.9/0.27	0.07		0.02		240		10-15	
7										
8	11-17/1245	1.9/0.40	0.07		.015		150		0-5	
9										
10										
11										
12										
13										
14										
15										
16	11-17/1100	1.2/0.15	0.1		0.03		180		0-5	
17	11-17/1000	1.6/0.33	0.05		0.02		200		0-5	
18										
19	11-17/0915	2.5/0.15	0.25		.017		170		0-5	
20										
21	11-17/1230	2.4/0.49	0.1		0.01		150		0-5	
22										
23										
24										
25										
26										
27										
28										
29	11-17/1120	2.2/0.21	0.15		0.03		140		0-5	
30										
31	11-17/1140	2.4/0.21	0.05		.017		190		0-5	
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

27 November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	11-27/1600	2.4/0.30	9.0	9.0		560	10	10	17	
18										
19										
20										
21	11-27/1110	2.8/0.40	9.0	9.0		650	10	11	19	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	11-27/0845	2.3/0.30	9.0	9.0		675	9	10	15	
34										
35	11-27/1205	2.6/0.46	9.0	8.5		440	10	11	11	
36	11-27/1300	2.8/0.55	10	9.0		340	11	11	13	
37	11-27/1030	3.4/0.40	10	10		490	10	10	14	
38	11-27/1355	2.6/0.58	8.5	9.5		520	10	10	12	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

27. November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	pH		Alkalinity		Total Hardness		Silica (ppm)	
			S	B	pheno	total	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	11-27/1600	2.4/0.30	7.5		0	154			1.1	
18										
19										
20										
21	11-27/1110	2.8/0.40	7.8		0	188			0.9	
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	11-27/0845	2.3/0.30	7.7		0	171			3.0	
34										
35	11-27/1205	2.6/0.46	7.6		0	154			0.9	
36	11-27/1300	2.8/0.55	7.9		0	120			0.7	
37	11-27/1030	3.4/0.40	7.7		0	171			0.85	
38	11-27/1355	2.6/0.58	7.9		0	171			0.7	
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

27. November 1973

Sampling Period

Station	1973 Date/Time	(meters) Depth/Trans.	Orthophosphate (ppm)		Nitrate (ppm)		Sulfate (ppm)		Carbon Dioxide (ppm)	
			S	B	S	B	S	B	S	B
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17	11-27/1600	2.4/0.30	0.05		0.1					5-10
18										
19										
20										
21	11-27/1110	2.8/0.40	0.45		0.5					0-5
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33	11-27/0845	2.3/0.30	0.7		0.5		290			0-5
34										
35	11-27/1205	2.6/0.46	0.1		0.3		200			0-5
36	11-27/1300	2.8/0.55	0.05		0.4		140			0-5
37	11-27/1030	3.4/0.40	0.5		0.5		210			0-5
38	11-27/1355	2.6/0.58	0.5		0.5		200			0-5
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

April 30, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (µmhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	4-30/1230	1.8/0.34	16.3	16.1	480	485	11.8	11.5	30	34
3										
4										
5	4-30/1300	2.0/0.29	17.0	16.7	500	490	11.8	11.4	23	32
6										
7										
8										
9										
10										
11	4-30/1330	1.9/0.38	17.0	16.2	500	500	12.2	11.4	35	35
12										
13										
14										
15										
16										
17	4-30/1400	2.3/0.34	16.7	16.5	480	480	11.8	11.4	32	30
18										
19										
20										
21	4-30/1035	2.8/0.34	15.3	14.9	500	490	11.6	11.0	31	32
22										
23	4-30/1420	2.4/0.35	16.3	16.1	490	490	11.8	11.2	30	31
24										
25										
26										
27										
28										
29	4-30/1445	2.6/0.37	16.8	16.6	540	540	11.9	11.4	33	36
30										
31										
32										
33	4-30/1105	2.2/0.38	17.0	16.9	540	540	11.2	10.8	28	36
34	4-30/1135	5.2/0.38	17.7	17.4	650	750	11.3	11.0	22	65
35	4-30/0910	2.8/0.33	15.2	15.0	500	500	11.4	11.4	34	36
36	4-30/0830	2.9/0.30	15.0	14.9	500	500	11.6	11.3	33	37
37	4-30/1000	2.7/0.37	16.0	15.9	510	510	11.4	11.0	30	33
38	4-30/0750	4.0/0.31	12.9	12.8	350	380	11.8	11.8	25	33
39										
40										

- Notes: 1) Triplicate benthos samples taken at each station with a 9" x 9" Ekman sampler; screened through a No. 30 mesh sieve.
 2) Single vertical plankton tow taken at each station with a Wisconsin net; length of tow 0.8 m less than total depth at each station.

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

April 30, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	4-30/1230		6.8	6.7						
3										
4										
5	4-30/1300		6.8	6.9						
6										
7										
8										
9										
10										
11	4-30/1330		7.5	7.0						
12										
13										
14										
15										
16										
17	4-30/1400		7.6	7.3	120	100	240	230		
18										
19										
20										
21	4-30/1035		7.0	7.0	80	100	230	235		
22										
23	4-30/1420		7.5	7.5						
24										
25										
26										
27										
28										
29	4-30/1445		7.6	7.5						
30										
31										
32										
33	4-30/1105		8.0	7.5	120	170	260	260		
34	4-30/1135		7.6	7.8	110	115	340	380		
35	4-30/0910		7.5	7.8	120	110	240	230		
36	4-30/0830		7.5	7.5	100	120	240	230		
37	4-30/1000		7.9	8.0	120	125	230	230		
38	4-30/0750		7.6	7.4	90	100	200	230		
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

May 30-31, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	5-31/1050	2.0/0.25	19.0	19.0	520	525	10.4	10.2	33	
3										
4										
5	5-31/1120	1.9/0.25	19.2	19.2	525	525	11.2	11.0	33	
6										
7										
8										
9										
10										
11	5-31/1140	1.8/0.20	19.7	19.7	525	535	10.7	10.4	50	
12										
13										
14										
15										
16										
17	5-31/1200	2.2/0.25	19.0	19.0	510	510	10.5	10.4	52	
18										
19										
20										
21	5-30/1515	2.8/0.30	18.2	17.9	500	500	11.3	10.4	26	27
22										
23	5-31/1225	2.2/0.25	18.9	18.8	510	510	10.4	10.3	20	
24										
25										
26										
27										
28										
29	5-30/1050	2.7/0.25	17.8	17.2	540	540	11.0	10.6	25	28
30										
31										
32										
33	5-31/1020	2.0/0.25	19.3	19.2	590	610	10.2	10.2	27	240
34										
35	5-30/1420	2.9/0.40	18.2	17.0	490	490	11.3	9.4	32	28
36	5-30/1350	3.0/0.32	18.0	17.7	410	420	10.6	9.9	24	120
37	5-30/1450	2.6/0.25	19.0	16.8	540	540	12.6	9.8	45	52
38	5-30/1315	4.0/0.35	17.5	17.0	400	400	10.4	9.4	22	18
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

May 30-31, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	5-31/1050		8.7	-						
3										
4										
5	5-31/1120		8.9	-						
6										
7										
8										
9										
10										
11	5-31/1140		9.0	-						
12										
13										
14										
15										
16										
17	5-31/1200		8.7	-	110		230	-	0.09	-
18										
19										
20										
21	5-30/1515		8.8	8.9	120	130	220	210	0.18	0.20
22										
23	5-31/1225		8.7	-						
24										
25										
26										
27										
28										
29	5-30/1050		8.7	8.7						
30										
31										
32										
33	5-31/1020		8.9	-						
34										
35	5-30/1420		8.7	8.8	110	120	180	190	0.06	0.07
36	5-30/1350		8.7	8.7	110	120	190	190	0.25	0.50
37	5-30/1450		8.4	8.5	110	110	230	235	0.10	0.10
38	5-30/1315		8.3	8.4	120	110	170	160	0.27	0.30
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

June 28, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	6-28/1525	1.9/0.26	22.0	21.9	350	440	8.9	8.9	49	63
3										
4										
5	6-28/1500	1.9/0.32	21.8	21.5	410	340	9.6	9.5	50	51
6										
7										
8										
9										
10										
11	6-28/1440	1.8/0.26	21.9	21.9	360	360	10.8	10.5	32	37
12										
13										
14										
15										
16										
17	6-28/1420	2.5/0.45	21.2	20.9	350	360	9.4	9.2	20	24
18										
19										
20										
21	6-28/1220	2.8/0.45	21.0	20.5	360	400	10.4	10.4	13	32
22										
23	6-28/1400	2.6/0.38	21.2	20.7	350	350	10.5	9.2	22	18
24										
25										
26										
27										
28										
29	6-28/1250	2.7/0.54	21.0	20.7	360	360	8.8	8.8	12	15
30										
31										
32										
33	6-28/1550	2.3/0.25	21.7	21.6	380	450	9.2	9.2	26	45
34										
35	6-28/1130	2.8/0.63	20.3	20.1	355	350	10.2	9.7	10	10
36	6-28/1100	3.1/0.52	20.2	20.0	300	300	9.6	8.7	9	18
37	6-28/1200	2.7/0.40	21.0	20.3	400	360	10.2	8.7	14	26
38	6-28/1015	4.1/0.67	19.7	19.4	260	250	10.0	9.3	8	12
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

June 28, 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	6-28/1525		8.15	8.2						
3										
4										
5	6-28/1500		8.2	8.25						
6										
7										
8										
9										
10										
11	6-28/1440		8.2	8.2						
12										
13										
14										
15										
16										
17	6-28/1420		8.15	8.2	110	110	230	235	.15	.17
18										
19										
20										
21	6-28/1220		8.0	8.0	120	120	230	230	.10	1.0
22										
23	6-28/1400		8.1	8.1						
24										
25										
26										
27										
28										
29	6-28/1250		8.2	8.2						
30										
31										
32										
33	6-28/1550		8.0	8.3	135	135	250	260	.65	.88
34										
35	6-28/1130		8.2	8.0	115	110	230	235	.16	.10
36	6-28/1100		8.2	8.2	110	100	200	200	.18	.25
37	6-28/1200		7.8	7.8	120	120	240	235	.17	.20
38	6-28/1015		8.0	8.0	110	120	180	180	.12	.12
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

. 31 July 1974

Sampling Period

Station	1974 Date/Time	m Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	7-31/1105	1.6/0.28	23.0	22.5	535	525	9.0	7.3	33	37
3										
4										
5	7-31/1115	1.7/0.28	23.0	22.5	520	525	9.2	7.2	30	37
6										
7										
8										
9										
10										
11	7-31/1125	1.6/0.30	23.3	22.3	520	510	9.3	7.0	36	38
12										
13										
14										
15										
16										
17	7-31/1135	2.1/0.32	23.0	22.3	510	510	9.0	7.4	20	38
18										
19										
20										
21	7-31/1010	2.8/0.33	22.0	22.0	540	540	8.2	7.6	23	33
22										
23	7-31/1140	2.2/0.33	23.0	22.5	495	495	9.8	7.0	25	38
24										
25										
26										
27										
28										
29	7-31/1150	2.5/0.33	23.0	22.5	480	480	9.8	6.9	27	27
30										
31										
32										
33	7-31/1050	2.0/0.28	22.5	22.0	560	570	8.4	7.8	23	35
34	7-31/1030	1.5/0.25	23.0	23.0	730	740	8.1	8.0	38	45
35	7-31/0930	2.8/0.33	22.0	22.0	480	480	7.8	7.2	30	29
36	7-31/0910	2.9/0.45	22.0	22.0	440	440	8.4	8.0	18	20
37	7-31/0950	2.7/0.27	22.0	22.0	510	510	7.8	7.2	30	36
38	7-31/0845	4.0/0.45	22.0	22.0	320	320	8.4	7.8	17	24
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

31 July 1974

Sampling Period

Station	1974 Date/Time	Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	7-31/1105	1.6/0.28	8.0	8.0						
3										
4										
5	7-31/1115	1.7/0.28	8.15	7.95						
6										
7										
8										
9										
10										
11	7-31/1125	1.6/0.30	8.0	8.0						
12										
13										
14										
15										
16										
17	7-31/1135	2.1/0.32	8.1	7.9	100	105	260	260	3.0	2.9
18										
19										
20										
21	7-31/1010	2.8/0.33	8.3	8.3	110	110	260	260	3.0	3.0
22										
23	7-31/1140	2.2/0.33	8.2	8.0						
24										
25										
26										
27										
28										
29	7-31/1150	2.5/0.33	8.25	8.05						
30										
31										
32										
33	7-31/1050	2.0/0.28	8.0	8.0	130	125	250	260	3.1	3.2
34	7-31/1030	1.5/0.25	8.0	8.2	170	170	370	360	3.4	3.5
35	7-31/0930	2.8/0.33	7.9	7.8	110	120	230	230	0.8	0.7
36	7-31/0910	2.9/0.45	8.15	8.2	100	110	200	210	0.2	0.1
37	7-31/0950	2.7/0.27	8.1	8.15	110	105	240	250	3.1	3.2
38	7-31/0845	4.0/0.45	8.1	8.05	110	105	190	190	0.3	0.3
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

26 August 1974

Sampling Period

Station	1974 Date/Time	(m) Depth/Trans.	Temperature (°C)		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	8-26/1445	1.5/0.35	25.5	24.5	470	480	9.8	7.0	17	47
3										
4										
5	8-26/1500	1.4/0.25	25.5	24.5	490	475	9.8	5.9	18	23
6										
7										
8										
9										
10										
11	8-26/1515	1.6/0.28	26.0	24.5	415	480	10.2	5.6	22	37
12										
13										
14										
15										
16										
17	8-26/1525	2.0/0.27	26.0	24.5	400	500	10.4	5.8	16	17
18										
19										
20										
21	8-26/1303	2.1/0.38	24.5	24.5	500	500	8.2	5.8	15	35
22										
23	8-26/1535	2.2/0.36	25.5	24.5	490	400	10.0	5.9	14	19
24										
25										
26										
27										
28										
29	8-26/1015	2.5/0.33	24.0	24.5	480	480	7.1	6.0	19	64
30										
31										
32										
33	8-26/1350	2.0/0.25	24.5	24.5	440	440	8.5	7.6	32	43
34	8-26/1405	1.0/0.22	26.0	25.5	620	700	11.6	11.2	42	32
35	8-26/1205	2.5/0.35	24.0	24.0	410	410	8.7	8.3	25	140
36	8-26/1125	2.8/0.32	24.0	24.0	420	420	8.1	7.1	15	24
37	8-26/1150	2.5/0.37	24.0	24.0	570	570	8.4	7.9	12	14
38	8-26/1100	3.75/0.47	24.0	24.0	400	390	8.2	7.8	9	7
39										
40										
41										
42										

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

26 August 1974

Sampling Period

Station	1974 Date/Time	(m) Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	8-26/1445	1.5/0.35	7.9	7.7						
3										
4										
5	8-26/1500	1.4/0.25	7.9	7.8						
6										
7										
8										
9										
10										
11	8-26/1515	1.6/0.28	7.9	7.9						
12										
13										
14										
15										
16										
17	8-26/1525	2.0/0.27	7.8	7.8	115	120	250	250	1.7	1.1
18										
19										
20										
21	8-26/1303	2.6/0.38	8.1	8.0	110	120	250	255	1.15	1.95
22										
23	8-26/1535	2.2/0.36	9.95	8.0						
24										
25										
26										
27										
28										
29	8-26/1015	2.5/0.33	8.1	8.0						
30										
31										
32										
33	8-26/1350	2.0/0.25	7.9	7.85	130	130	265	260	2.1	2.5
34	8-26/1405	1.0/0.22	7.6	7.6	180	180	335	330	4.0	4.5
35	8-26/1205	2.5/0.35	8.3	8.3	120	125	250	260	1.85	2.25
36	8-26/1125	2.8/0.32	8.1	8.15	110	110	220	230	1.0	1.2
37	8-26/1150	2.5/0.37	8.1	8.0	120	120	260	260	1.7	1.8
38	8-26/1100	3.75/0.47	8.2	8.1	100	100	210	210	1.4	1.45
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

23 September 1974

Sampling Period

Station	Date/Time	Depth/Trans.	Temperature °C		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	9-23/1345	1.1/0.3	16.0	16.0	500	450	11.2	10.8	27	27
3										
4										
5	9-23/1410	1.1/0.3	15.0	15.0	475	550	10.2	10.2	28	28
6										
7										
8										
9										
10										
11	9-23/1420	1.1/0.25	15.0	15.0	440	400	10.4	10.4	30	40
12										
13										
14										
15										
16										
17	9-23/1435	2.1/0.30	15.0	14.0	375	400	10.0	9.4	27	30
18										
19										
20										
21	9-23/1215	2.6/0.40	15.5	15.5	375	375	9.4	9.2	14	18
22										
23	9-23/1500	2.4/0.30	15.0	14.0	380	400	10.1	8.7	25	35
24										
25										
26										
27										
28										
29	9-23/0930	2.5/0.3	14.0	14.0	380	375	9.2	9.2	20	20
30										
31										
32										
33	9-23/1235	2.0/0.25	15.0	14.5	450	450	10.2	9.5	26	33
34	9-23/1335	2.0/0.20	17.0	15.0	525	575	10.8	9.4	28	37
35	9-23/1130	2.6/0.40	15.0	15.0	360	360	9.2	9.2	16	28
36	9-23/1100	2.9/0.40	15.0	15.0	340	340	9.6	9.3	17	20
37	9-23/1155	2.6/0.35	16.0	15.0	400	425	10.0	9.7	15	18
38	9-23/1030	3.8/0.4	16.0	16.0	260	280	10.2	9.2	16	18
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

23 September 1974

Sampling Period

Station	Date/Time	Depth/Trans.	pH		Total Alkalinity		Total Hardness		Silica (ppm)	
			S	B	S	B	S	B	S	B
1										
2	9-23/1345	1.1/0.3	7.9	7.9						
3										
4										
5	9-23/1410	1.1/0.3	8.4	8.4						
6										
7										
8										
9										
10										
11	9-23/1420	1.1/0.2	8.3	8.3						
12										
13										
14										
15										
16										
17	9-23/1435	2.1/0.30	8.3	8.3	110	120	260	260	1.30	1.35
18										
19										
20										
21	9-23/1215	2.6/0.40	8.3	8.4	120	120	260	260	1.40	1.45
22										
23	9-23/1500	2.4/0.30	8.2	8.1						
24										
25										
26										
27										
28										
29	9-23/0930	2.5/0.3	8.1	8.0						
30										
31										
32										
33	9-23/1235	2.0/0.25	8.3	8.2	130	140	300	300	1.20	1.40
34	9-23/1335	2.0/0.20	8.3	8.0	160	160	390	400	1.70	2.20
35	9-23/1130	2.6/0.40	8.3	8.3	120	120	260	260	0.70	0.60
36	9-23/1100	2.9/0.40	8.3	8.2	120	120	240	240	0.70	0.75
37	9-23/1155	2.6/0.35	8.2	8.4	130	130	310	315	2.60	2.50
38	9-23/1030	3.8/0.4	8.3	8.2	110	110	170	170	0.15	0.15
39										
40										
41										
42										

PHYSICOCHEMICAL MEASUREMENTS OF SANDUSKY BAY

19 November 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	Temperature °C.		Conductivity (umhos/cm)		Dissolved Oxygen (ppm)		Turbidity (JTU)	
			S	B	S	B	S	B	S	B
1										
2	11-19/1145	1.4/0.70	5.0	4.0	600	600	13.0	12.8	12	12
3										
4										
5	11-19/1125	1.2/0.70	5.0	4.5	575	580	12.9	12.8	8	9
6										
7										
8										
9										
10										
11	11-19/1105	1.2/0.70	4.0	4.0	580	585	13.0	12.8	8	9
12										
13										
14										
15										
16										
17	11-19/1045	2.0/0.50	3.5	4.0	585	585	13.3	12.1	12	14
18										
19										
20										
21	11-19/1315	2.3/0.65	4.0	4.0	620	620	12.0	12.0	9	10
22										
23	11-19/1015	2.1/0.60	3.5	3.5	600	600	12.7	12.6	12	13
24										
25										
26										
27										
28										
29	11-19/1000	2.5/0.60	3.0	3.0	625	630	13.3	13.3	10	10
30										
31										
32										
33	11-19/1245	1.4/0.65	5.0	4.5	615	620	13.1	12.9	11	11
34	11-19/1220	1.1/0.50	5.0	5.0	700	700	13.0	12.0	11	11
35	11-19/1400	2.5/0.70	4.5	4.5	450	450	12.8	12.5	9	9
36	11-19/1430	2.2/0.90	5.0	5.0	410	410	13.2	12.9	12	24
37	11-19/1330	2.2/0.65	4.0	3.5	700	700	13.3	13.2	13	14
38	-	-	-	-	-	-	-	-	-	-
39										
40										
41										
42										

PHYSICO-CHEMICAL MEASUREMENTS OF SANDUSKY BAY

19. November 1974

Sampling Period

Station	1974 Date/Time	(meters) Depth/Trans.	pH		Alkalinity (ppm)		Total Hardness		Sulca. (ppm)	
			S	B	S	B	S	B	S	B
1										
2	11-19/1145	1.4/0.70	8.00	8.10	120	120				
3										
4										
5	11-19/1125	1.2/0.70	8.10	8.10	125	125				
6										
7										
8										
9										
10										
11	11-19/1105	1.2/0.70	8.10	8.10	120	120				
12										
13										
14										
15										
16										
17	11-19/1045	2.0/0.50	8.00	8.00	130	125	300	300	1.50	1.65
18										
19										
20										
21	11-19/1315	2.3/0.65	8.05	8.05	130	140	300	305	1.4	1.4
22										
23	11-19/1015	2.1/0.60	8.00	8.00	130	130				
24										
25										
26										
27										
28										
29	11-19/1000	2.5/0.60	8.10	8.10	130	130				
30										
31										
32										
33	11-19/1245	1.4/0.65	8.00	8.05	130	135	300	310	1.55	1.60
34	11-19/1220	1.1/0.50	8.00	8.00	150	160	340	345	2.00	2.00
35	11-19/1400	2.5/0.70	8.05	8.10	130	130	220	220	0.60	0.65
36	11-19/1430	2.2/0.90	8.00	8.05	110	110	200	200	0.50	0.55
37	11-19/1330	2.2/0.65	8.10	8.10	160	160	330	340	1.70	1.70
38	-	-	-	-	-	-	-	-	-	-
39										
40										
41										
42										