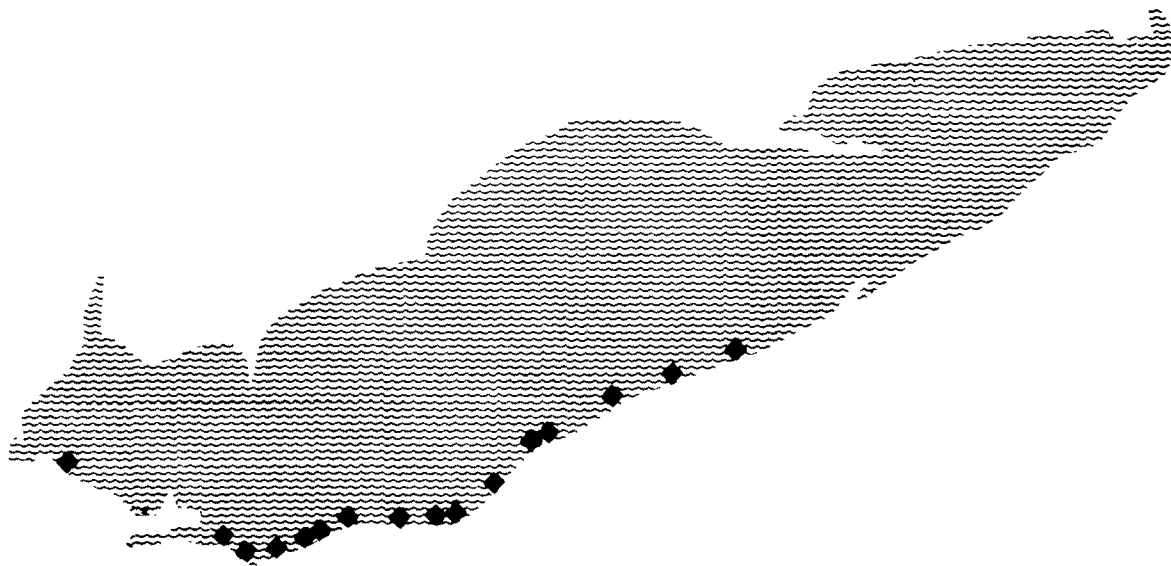


LAKE ERIE OHIO INTAKE WATER QUALITY SUMMARY 1968



U. S. DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION



OHIO DEPARTMENT OF HEALTH
BUREAU OF ENVIRONMENTAL HEALTH-DIVISION OF ENGINEERING



OCTOBER 1969

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ENVIRONMENTAL PROTECTION AGENCY
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ENVIRONMENTAL PROTECTION AGENCY

INTRODUCTION

The following is a summary of progress to date on the cooperative water quality surveillance program between the Ohio Department of Health, municipalities, and the Federal Water Pollution Control Administration at 17 Ohio water treatment intakes in Lake Erie (see Fig. 1).

This continuing study is a part of the overall Ohio Department of Health program to monitor interstate waters for water quality standards compliance. In addition it supplements Federal efforts in the surveillance of Lake Erie waters as instructed by the Lake Erie Enforcement Conference. Finally an expansion of the normal municipal monitoring of raw and finished water for treatment requirement and quality control purposes would substantially aid in the successful production of a more palatable product especially during periods of algae-caused consumer distress.

All water quality information is being entered into the STORET data processing system as used by the Federal Water Pollution Control Administration and the Ohio Department of Health.

Program and Methods

The program was initiated in March 1968 by the Ohio Department of Health and the FWPCA, with municipal participation beginning in July 1968. Since that time however, the program has been expanded to include Lake Erie intakes in Pennsylvania and New York.

As part of the cooperative effort the Ohio Department of Health is making bimonthly determinations for toxic materials. These include zinc, silver, copper, chromium, nickel, cadmium, lead, arsenic, and

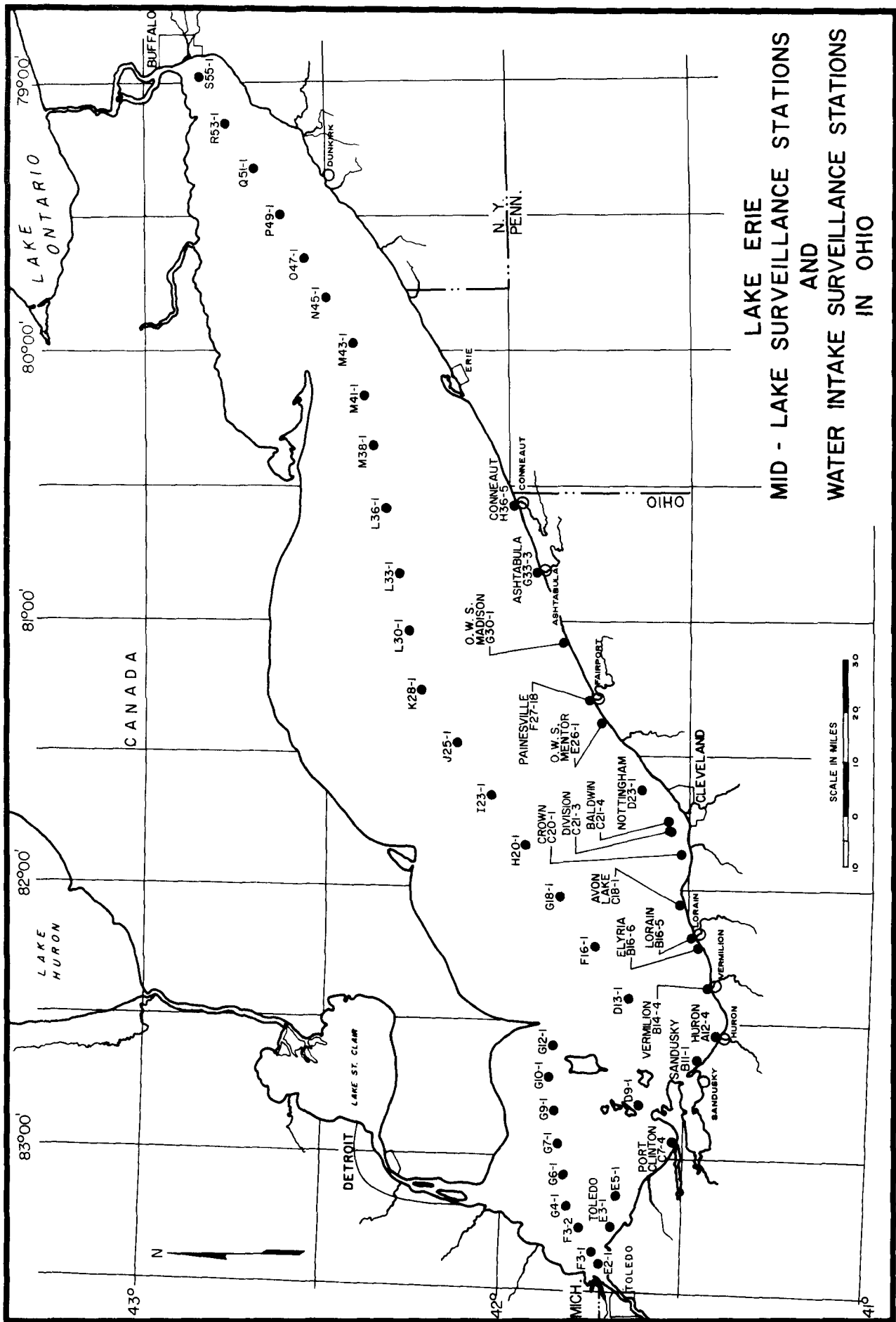


FIGURE 1

cyanide. In addition, the same agency is inspecting and guiding municipal laboratories to insure that standard procedures for water analysis are being employed.

The municipalities, which normally are concerned with only a few water quality parameters in producing a potable and palatable water, have comprehensively increased their analytical characterizations to include continuous temperature recording, pH, conductivity, total dissolved solids, turbidity, total iron, total manganese, chloride, sulfates, total bacteria, total and fecal coliforms, alkalinity, hardness, and chlorine demand.

The FWPCA is making all sample collections for both the State and Federal aspects of the program. In addition, the FWPCA is making the following biweekly determinations: DO, total phosphorus, soluble phosphorus, organic nitrogen, ammonia, nitrate, chemical oxygen demand, and plankton evaluations. Finally the same agency is making physical, biological, and chemical studies of the bottom sediments in the vicinity of each intake crib.

The analytical methods used by the municipalities and the FWPCA are found in "Great Lakes-Illinois River Basin Chemistry Laboratory Manual, Lake Michigan Basin Office", "Laboratory Manual, Lake Erie Basin Office", and in "Standard Methods for the Examination of Water and Wastewater", 12th ed. Toxic materials analysis made by the Ohio Department of Health is performed spectrometrically employing atomic absorption.

Tables 1 and 6 show data supplied by the Ohio Department of Health. Table 4 contains municipal data. Tables 2, 3, 5, 7 and 8 show data supplied by the Federal Water Pollution Control Administration. The abbreviations for data compilation are listed on pages 191 and 192.

TABLE 1
SUMMARY OF WATER INTAKE PHYSICAL DATA

Location Number	Intake	Latitude	Longitude	Total** Depth (ft.)	Intake** Depth (ft.)	Intake Line Diameter (in.)	Intake Line Type	Distance from shore (ft.)	%WA	%WB
E3-1	Toledo	41°42'00"	83°15'32"	17	10±5	108	C	11,000	50	50
C7-4	Port Clinton	41°31'22"	82°56'21"	8	4	30	C	2,000	75	25
B11-1	Sandusky	41°27'51"	82°38'50"	21	16	42	S	2,900	100	0
A12-4	Huron	41°24'23"	82°33'24"	15	10	36	C	2,100	100	0
B14-4	Vermilion	41°25'42"	82°22'09"	11	7	18	S	1,200	100	0
B16-6	Elyria	41°27'26"	82°13'15"	20	11	42	I	1,200	100	0
B16-5	Lorain	41°28'21"	82°11'41"	24	11	48	I	1,100	95	5
C18-1	Avon Lake	41°30'46"	82°02'36"	21	18	36	C	2,000	100	0
C20-1	Cleveland-Crown	41°31'08"	81°52'46"	44	*19	96	C	13,000	100	0
C21-3	Cleveland-Division	41°32'50"	81°45'50"	50	34	120	C	20,000	100	0
C21-4	Cleveland-Baldwin	41°32'54"	81°45'02"	47	17±9	108	C	17,000	50	50
D23-1	Cleve.-Nottingham	41°37'05"	81°37'02"	49	38	120	C	18,000	100	0
E26-1	O.W.S. - Mentor	41°43'34"	81°22'05"	17	14	36	C	2,000	100	0
F27-18	Painesville	41°45'24"	81°17'53"	11	6	24	I	1,100	50	50
G30-1	O.W.S. - Madison	41°50'00"	81°04'38"	20	16	24	I	1,800	95	5
G33-3	Ashtabula	41°54'30"	80°48'38"	23	20	30	C	1,600	95	5
H36-5	Conneaut	41°57'54"	80°34'38"	19	13	24	I	2,000	100	0

Notes: * Depth of intake as of 9/17/68. Previous depth was 34 feet.
 ** All depths referred to mean low water level (568.6 feet).

Abbreviations:

C - Concrete
 I - Iron
 S - Steel

%WA - Percent of raw water from above center line of inlet port.
 %WB - Percent of raw water from below center line of inlet port.

TABLE 2
SEDIMENT CHEMISTRY
mg/g

Station	PO ₄ -P	Percent Solids	Volatile Solids	Total Kjeldahl Nitrogen	Oil & Grease	Total Iron	COD
Toledo*	--	--	--	--	--	--	--
Port Clinton	0.46	51.71	59.24	1.45	2.77	17.5	44.08
Sandusky	0.57	52.89	65.44	1.58	4.37	17.0	46.76
Huron	0.42	72.69	19.63	0.29	2.13	12.4	12.46
Vermilion*	--	--	--	--	--	--	--
Lorain	0.35	70.46	26.01	0.60	2.97	22.3	24.91
Elyria	0.35	75.23	26.64	0.50	1.45	22.0	27.10
Avon	0.46	75.70	14.05	0.28	1.69	80.2	19.10
Cleve-Crown	0.42	50.63	56.01	1.60	1.72	30.3	18.20
Cleve-Division	0.69	72.77	17.91	0.34	0.68	50.4	24.57
Cleve-Baldwin	0.65	60.76	23.90	1.29	1.45	46.2	37.22
Cleve-Nottingham	0.51	46.80	37.41	1.69	2.08	44.2	50.20
Mentor	0.26	73.90	8.97	0.16	0.43	29.2	10.16
Painesville	0.17	78.06	13.43	0.22	0.33	13.6	11.79
Madison	0.44	58.18	37.36	1.01	3.18	32.1	53.57
Ashtabula	0.33	76.29	10.99	0.25	0.75	53.7	18.44
Conneaut*	--	--	--	--	--	--	--
Average (West	0.94	--	81.0	2.2	--	32.4	66.1
Midlake (Cent.	0.72	--	63.0	1.8	0.42	35.5	41.0
Sediment (East	0.93	--	57.0	1.9	--	35.1	48.0

* Substrate such to make sampling for chemical analysis impossible

TABLE 3
SEDIMENT - PHYSICAL AND BIOLOGICAL
CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. Radius)	
	Physical	Biological
Toledo	Grey-black sludge, some coarse sand and gravel marshy odor	Tubificidae, Chironomidae, Sphaeriidae, Nematoda, Pulmonata
Port Clinton	Rocky, coarse brown and grey sand, no odor detectable	Tubificidae, Chironomidae, Unionidae, Nematoda
Sandusky	Grey-black sludge with brown overlay, marshy odor	Chironomidae, Tubificidae, Unionidae, Sphaeriidae
Huron	Fine brown sand, grey sludge, shale, no odor detectable	Chironomidae, Tubificidae, Amphipoda, Isopoda, Tricoptera, Prosobranchia
Vermilion	Very rocky, shale, fine sand, no odor detectable	Amphipoda, Tricoptera, Ephemeroptera, Turbellaria, Tubificidae, Chironomidae
Elyria	Very rocky, coarse sand and gravel, fishy odor	Amphipoda, Hydrabryozoa, Turbellaria, Ephemeroptera, Tricoptera, Hirudinea, Tubificidae, Chironomidae
Lorain	Very rocky, grey-brown fine sand, some sludge, slightly septic odor	Chironomidae, Tubificidae, Bryozoa, Tricoptera, Hirudinea, Turbellaria, Amphipoda, Ephemeroptera
Avon	Very rocky, shale, fine dark brown sand, some clay, no odor detectable	Tubificidae, Isopoda, Amphipoda, Hirudinea, Tricoptera, Hydra, bryozoa Pulmonata, Chironomidae, Prosobranchia, Turbellaria, Ephemeroptera
Cleveland Crown	Grey-black sludge, clay, heavy light-brown overlay, fishy odor	Tubificidae, Nematoda, Unionidae, Chironomidae

TABLE 3 (Concluded)
SEDIMENT - PHYSICAL AND BIOLOGICAL
CHARACTERISTICS

Municipality	Bottom Sediment Description at Water Intake (1000 ft. radius)	
	Physical	Biological
Cleveland Division	Coarse sand, some grey black sludge, some oil, fishy, oil odor	Tubificidae, Isopoda, Nematoda, Chironomidae, Prosobranchia, Sphaeriidae
Cleveland Baldwin	Rocky, coarse grey sand, some grey-black sludge, fishy, septic odor	Tubificidae, Chironomidae, Sphaeriidae, Isopoda, Hydra, Bryozoa, Nematoda
Cleveland Nottingham	Grey-black sludge, light brown overlay, coarse sand, some oil, septic odor	Tubificidae, Chironomidae, Hirudinea, Isopoda, Prosobranchia, Sphaeriidae
Ohio Water Service Mentor	Rocky, coarse sand and silt, some fine grey- brown sand, fishy odor	Ephemeroptera, Tricoptera, Amphipoda, Prosobranchia, Hydra, Bryozoa, Unionidae, Amphipoda, Chironomidae, Tubificidae, Hirudinea, Sphaeriidae
Painesville**	Fine brown sand, no odor detectable	Tubificidae, Chironomidae
Ohio Water Service Madison	Shale, fishy odor	Tricoptera, Ephemeroptera, Plecoptera, Turbellaria, Hirudinea, Prosobranchia, Bryozoa, Tubificidae
Ashtabula	Fine grey-brown sand and silt and gravel. No odor detectable	Tubificidae, Sphaeriidae, Amphipoda, Chironomidae, Ephemeroptera, Prosobranchia, Pulmonata, Hydra, Bryozoa
Conneaut	Rock bottom, no odor detectable	Amphipoda, Ephemeroptera, Tricoptera, Plecoptera, Chironomidae, Tubificidae, Prosobranchia, Pulmonata, Turbellaria, Bryozoa

* Sediments sampled April 1968

** Physical nature of substrate poor for benthic fauna habitat

TABLE 4
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	21.0	9	293	5.9	65	1.1	8.1	92			123	--	--	--	--	4
7-2-68	21.5	6	288	6.7	75	1.5	8.2	91			122	--	--	--	--	22
7-3-68	21.5	15	333	7.3	82	1.4	8.3	100			145	33	20	--	--	77
7-8-68	21.0	10	320	6.1	68	2.0	8.3	99			141	--	--	--	--	18
7-9-68	21.0	6	316	6.6	73	1.1	8.4	97			140	--	--	--	--	22
7-10-68	21.0	25	310	7.3	81	0.9	8.5	98			141	33	17	1.20	--	6
7-11-68	21.5	15	318	5.9	66	0.7	8.5	98			140	--	--	--	--	13
7-12-68	21.5	8	302	5.7	64	0.8	8.5	93			128	--	--	--	--	4
7-15-68	22.0	10	282	3.6	40	0.8	8.2	88			121	--	--	--	--	9
7-16-68	22.0	5	278	4.1	46	0.8	8.4	88			122	--	--	--	--	48
7-17-68	22.0	5	261	4.5	51	0.8	8.5	89			120	22	17	3.0	--	6
7-18-68	22.8	8	289	3.0	35	0.8	8.2	91			122	--	--	--	--	4
7-19-68	23.0	8	256	3.6	41	0.8	8.2	90			120	--	--	--	--	14
7-22-68	23.8	10	213	3.7	43	0.4	8.4	90			120	--	--	--	--	8
7-23-68	24.0	10	279	3.8	45	0.8	8.4	89			120	--	--	--	--	9
7-24-68	24.5	6	256	3.3	39	1.4	8.5	89			120	22	17	0.30	--	6
7-25-68	24.2	6	279	3.8	45	1.3	8.4	89			118	--	--	--	--	5
7-26-68	24.2	8	275	3.4	41	1.2	8.0	91			118	--	--	--	--	15
7-29-68	24.0	8	288	4.4	51	1.1	8.0	92			122	--	--	--	--	2
7-30-68	24.0	7	324	4.3	51	0.6	7.8	97			136	--	--	--	--	2
7-31-68	23.5	5	296	5.4	63	0.3	8.1	93			124	22	16	0.30	--	12
July Avg.	22.6	9	288	4.9	55	1.0	8.3	93			127	26	17	1.20		15
Max.	24.5	25	333	7.3	82	2.0	8.5	100			141	33	20	3.00		77
Min.	21.0	5	213	3.3	35	0.3	7.8	88			118	22	16	0.30		2

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-1-68	23.5	5	284	5.2	60	0.4	8.1	91			120	--	--	--	--	5
8-2-68	23.8	5	298	5.0	58	0.4	7.9	94			126	--	--	--	--	5
8-5-68	24.0	5	290	4.6	54	0.4	8.2	91			124	--	--	--	--	5
8-6-68	24.2	3	288	4.8	56	0.8	8.3	91			120	--	--	--	--	2
8-7-68	24.8	4	290	6.3	75	0.8	8.4	90			120	24	18	0.50	0.01	12
8-8-68	24.8	5	288	5.1	61	0.9	8.2	91			118	--	--	--	--	12
8-9-68	25.0	5	293	4.6	55	1.0	8.4	94			122	--	--	--	--	0
8-12-68	24.0	10	309	4.8	56	1.1	8.6	100			134	--	--	--	--	5
8-13-68	23.5	7	293	4.1	48	0.4	8.3	96			126	--	--	--	--	2
8-14-68	24.0	8	299	4.5	53	0.4	8.4	98			130	29	18	0.20	0.01	6
8-15-68	24.0	8	318	7.4	88	0.4	8.7	100			138	--	--	--	--	23
8-16-68	24.2	10	297	6.9	81	0.5	8.7	95			128	--	--	--	--	0
8-19-68	24.7	40	299	7.5	90	0.3	8.7	98			132	--	--	--	--	6
8-20-68	24.8	10	295	6.2	74	0.6	8.7	96			128	--	--	--	--	6
8-21-68	25.6	7	298	6.4	78	0.9	8.8	96			126	28	17	0.50	0.02	13
8-22-68	25.5	15	299	5.4	65	0.8	8.7	93			127	--	--	--	--	6
8-23-68	25.5	7	297	4.5	54	0.9	8.5	92			124	--	--	--	--	29
8-26-68	24.0	25	294	3.8	45	1.1	8.3	94			127	--	--	--	--	0
8-27-68	23.0	15	289	4.1	47	0.6	8.5	90			122	--	--	--	--	4
8-28-68	22.5	15	319	4.1	46	0.5	8.7	96			134	35	20	0.30	0.02	2
8-29-68	22.5	10	315	4.7	54	0.6	8.7	96			137	--	--	--	--	2
8-30-68	22.2	15	306	7.8	90	0.7	8.8	94			130	--	--	--	--	2
Aug. Avg.	24.1	10	298	5.4	63	0.7	8.5	94			127	29	18	0.38	0.02	7
Max.	25.6	40	319	7.5	90	1.1	8.8	100			138	35	20	0.50	0.02	23
Min.	22.2	3	284	3.8	45	0.3	7.9	90			120	24	17	0.20	0.01	0

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-3-68	21.8	9	272	7.3	83	0.4		8.5	84		117	--	--	--	--	0
9-4-68	21.2	9	287	7.5	84	0.4		8.6	86		120	28	17	0.30	0.01	2
9-5-68	22.1	7	284	7.5	86	0.5		8.6	84		118	--	--	--	--	0
9-6-68	21.8	10	268	7.2	81	0.4		8.5	81		114	--	--	--	--	6
9-9-68	21.4	10	268	7.5	85	0.4		8.4	80		115	--	--	--	--	0
9-10-68	21.4	9	266	7.3	82	0.5		8.4	81		116	--	--	--	--	2
9-11-68	21.0	10	265	7.6	85	0.3		8.4	88		117	22	17	0.40	0.01	15
9-12-68	20.0	8	265	7.3	80	0.3		8.4	88		116	--	--	--	--	6
9-13-68	20.0	10	268	7.5	81	0.4		8.4	88		115	--	--	--	--	7
9-16-68	21.0	8	272	8.0	89	0.3		8.5	90		118	--	--	--	--	6
9-17-68	21.0	9	271	8.1	90	0.5		8.5	89		117	--	--	--	--	15
9-18-68	20.5	7	268	8.0	88	0.4		8.6	88		115	--	--	--	--	26
9-19-68	20.5	9	266	8.0	88	0.2		8.6	87		116	21	17	0.38	0.01	15
9-20-68	20.5	9	266	7.5	82	0.3		8.5	87		115	--	--	--	--	4
9-23-68	20.3	5	268	7.1	77	0.4		8.5	85		114	--	--	--	--	5
9-24-68	20.5	5	270	6.6	71	0.3		8.4	87		114	--	--	--	--	4
9-25-68	20.5	--	266	6.8	74	0.3		8.4	87		115	--	--	--	--	6
9-26-68	20.5	6	272	7.3	80	0.4		8.4	88		115	22	17	0.35	0.02	6
9-30-68	19.0	5	272	7.5	80	0.2		8.4	89		118	--	--	--	--	23
Sept. Avg.	19.6	8	270	7.5	82	0.4		8.5	86		116	23	17	0.36	0.01	8
Max.	22.1	10	287	8.1	90	0.5		8.6	90		120	28	17	0.40	0.02	26
Min.	19.0	5	265	6.6	71	0.2		8.4	80		114	21	17	0.30	0.01	0
10-1-68	19.5	6	272	7.5	81	0.3		8.4	88		118					62
10-2-68	19.5	10	270	7.5	81	0.0		8.3	89		118					2
10-3-68	19.5	10	272	7.8	84	0.3		8.4	90		118	23	18	0.35	0.02	6
10-4-68	17.5	20	305	7.7	80	0.4		8.4	97		130					12
10-7-68	15.5	6	284	8.4	84	0.3		8.3	90		120					6

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-8-68	15.0	6	286	8.4	83	0.8	8.4	8.4	92		121					12
10-9-68	14.5	15	320	9.4	92	0.7	8.4	8.4	101		137	34	19	0.50	0.02	15
10-10-68	15.5	6	293	9.0	90	0.8	8.4	8.4	95		128					12
10-11-68	15.5	5	287	9.3	94	0.6	8.4	8.4	93		125					11
10-14-68	16.0	5	293	8.8	88	0.9	8.4	8.4	95		125					7
10-15-68	16.0	4	294	9.2	93	0.8	8.4	8.4	95		125					4
10-16-68	16.5	3	294	9.1	93	1.2	8.5	8.5	95		126	29	17	0.16	0	5
10-17-68	16.7	3	290	8.9	91	1.2	8.4	8.4	94		125					4
10-18-68	17.0	3	289	8.4	85	0.9	8.4	8.4	94		125					5
10-21-68	16.0	5	290	8.1	81	0.6	8.3	8.3	94		126					5
10-22-68	15.5	5	290	8.3	83	0.7	8.3	8.3	94		125					5
10-23-68	15.0	7	289	8.5	84	0.6	8.4	8.4	94		124					2
10-24-68	14.0	6	288	8.9	85	0.7	8.3	8.3	95		126	26	18	0.30	0.01	6
10-25-68	14.0	5	287	8.6	83	0.6	8.3	8.3	94		125					9
10-28-68	12.0	6	261	9.5	87	0.7	8.2	8.2	88		112					7
10-29-68	11.3	20	257	9.7	88	0.4	8.2	8.2	88		112					2
10-30-68	9.7	10	280	10.3	90	0.4	8.3	8.3	92		122	23	16	0.50	0	2
10-31-68	9.6	6	282	10.3	90	1.1	8.3	8.3	90		122					13
Oct. Avg.	15.3	7	286	8.8	87	0.6	8.3	8.3	93		123	27	17	0.36	0.01	9
Max.	19.5	20	305	10.3	94	1.2	8.5	8.5	101		137	34	19	0.50	0.02	62
Min.	9.6	3	257	7.5	80	0.6	8.2	8.2	88		112	23	16	0.16	0	2
11-1-68	9.4	10	284	10.5	91	0.7	8.3	8.3	94		123					12
11-4-68	10.3	6	280	10.7	95	0.3	8.3	8.3	91		122					8
11-5-68	10.3	7	279	10.7	95	0.3	8.3	8.3	91		121					2
11-6-68	10.4	15	272	10.7	95	0.4	8.4	8.4	89		117					5
11-7-68	10.3	32	268	10.5	93	0.5	8.3	8.3	86		115	20	20	1.50	0.05	15
11-8-68	9.2	35	308	10.2	88	0.5	8.3	8.3	101		134					12

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-12-68	6.8	50	327	11.3	92	0.8	0.8	8.3	104		139					80
11-13-68	7.2	30	259	11.2	93	0.8	0.8	8.2	88		111	20	15	1.80	0.04	68
11-14-68	7.0	10	241	11.5	95	0.8	0.8	8.3	85		105					50
11-15-68	6.8	10	273	11.4	93	0.4	0.4	8.2	92		117					6
11-18-68	7.0	10	233	11.4	94	0.6	0.6	8.3	84		106					7
11-19-68	6.8	10	260	11.1	90	0.3	0.3	8.3	89		112					12
11-20-68	5.0	50	300	11.8	92	0.6	0.6	8.2	95		127	30	18	2.20	0.05	112
11-21-68	4.5	20	294	11.9	91	1.1	1.1	8.2	94		125					59
11-22-68	4.8	10	241	12.2	95	0.6	0.6	8.2	86		108					12
11-25-68	5.0	15	302	12.1	95	0.6	0.6	8.1	97		129					13
11-26-68	5.0	10	297	12.2	96	0.9	0.9	8.1	96		126					12
11-27-68	5.0	10	280	12.4	98	0.7	0.7	8.1	93		120	17	16	0.57	0.01	5
11-29-68	5.4	15	308	11.7	92	1.0	1.0	8.1	98		130					19
Nov. Avg.	7.2	20	279	11.3	93	0.6	0.6	8.2	92		120	22	17	1.52	0.04	27
Max.	10.4	50	327	12.4	98	1.1	1.1	8.4	104		139	30	20	2.20	0.05	112
Min.	4.5	6	241	10.2	88	0.3	0.3	8.1	88		105	17	15	0.57	0.01	2
12-2-68	4.8	15	380	11.8	93	2.5	2.5	8.1	113		156					23
12-3-68	5.0	10	342	11.8	94	1.8	1.8	8.1	105		142					13
12-4-68	5.0	20	286	12.1	95	1.2	1.2	8.1	91		118	19	17	1.40	0.025	25
12-5-68	4.7	15	323	12.0	94	1.6	1.6	8.1	102		136			3.00		305
12-6-68	3.7	55	508	11.9	90	1.4	1.4	7.9	146		219					1,345
12-9-68	2.0	20	276	13.0	94	1.1	1.1	8.0	87		114					142
12-10-68	1.7	15	264	13.0	93	1.0	1.0	8.0	87		114					19
12-11-68	1.0	10	268	13.5	95	1.1	1.1	8.0	88		116	20	17	0.50	0.010	52
12-12-68	0.7	8	275	13.7	96	0.7	0.7	8.1	91		122					150
12-13-68	1.5	15	352	13.4	96	1.2	1.2	8.1	105		150					460
12-16-68	0.5	25	321	13.7	95	0.9	0.9	8.0	102		139					460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Toledo - E0301																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-17-68	0.5	15	258	14.1	98	0.9	8.0	8.0	88		110					19
12-18-68	0.3	10	253	13.9	97	0.9	8.0	8.0	87		110	20	14	0.50	0.010	16
12-19-68	0.3	8	262	14.0	97	1.2	8.0	8.0	95		114					43
12-20-68	0.5	7	253	14.0	98	0.9	8.0	8.0	93		110					31
12-23-68	0.4	10	260	13.8	97	1.1	8.0	8.0	89		114					1,275
12-24-68	0.2	20	256	14.0	97	1.5	8.0	8.0	89		113					117
12-26-68	0.2	10	284	14.1	98	1.9	7.9	7.9	96		132	26	17	1.50	0.010	562
12-27-68	0.2	15	338	14.2	99	1.8	7.9	7.9	103		144					1,212
12-30-68	0.3	10	260	14.0	97	1.5	8.0	8.0	93		114					1,212
12-31-68	0.2	8	263	14.1	98	1.7	8.0	8.0	94		114	20	16	1.00	0.020	51
Dec. Avg.	1.6	15	299	13.3	96	1.3	8.0	8.0	97		128	21	16	1.32	0.015	359
Max.	5.0	55	508	14.2	99	2.5	8.1	8.1	146		219	26	17	3.00	0.025	1,345
Min.	0.2	7	253	11.8	90	0.9	7.9	7.9	87		110	19	14	0.50	0.010	13

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	22.2	25		4.7	53	5.5	7.6	75			126					6,250
7-2-68	22.7	30		5.1	58	6.5	7.5	84			142					6,100
7-3-68	22.7	55		4.8	54	5.7	7.2	85			138					1,000
7-4-68	22.2	100		5.5	63	8.1	7.8	73			140					2,050
7-5-68	22.2	35		6.5	74	5.8	7.2	94			134					1,320
7-6-68	22.2	45		4.8	54	9.7	7.2	101			148					2,850
7-7-68	21.9	25		4.4	49	7.1	7.6	85			134					5,300
7-8-68	21.5	25		4.2	47	6.2	7.2	70			140					8,000
7-9-68	21.1	40		4.5	50	6.1	7.8	85			140					6,500
7-10-68	22.4	30		4.4	50	5.1	7.8	85			132		28			2,500
7-11-68	22.2	40		4.1	46	5.1	7.6	87			130					400
7-12-68	22.2	80		3.6	41	6.0	7.6	95			136					1,900
7-13-68	22.2	45		2.8	31	5.8	7.6	102			164					2,050
7-14-68	22.2	25		2.3	26	6.4	7.4	97			136					800
7-15-68	22.2	25		--	--	4.6	7.4	75			140					1,450
7-16-68	22.7	25		4.3	49	4.6	7.6	78			132					2,400
7-17-68	23.7	35		4.5	51	5.1	7.6	101			128					2,100
7-18-68	23.3	45		1.7	19	5.2	7.4	--			140					2,100
7-19-68	23.3	30		3.5	40	6.0	7.2	--			142					5,300
7-20-68	25.0	45		4.0	48	5.4	7.6	98			140		26			2,700
7-21-68	24.4	25		3.6	42	7.8	7.6	63			150					6,000
7-22-68	24.4	25	250	3.5	41	5.0	7.6	84		80	125					2,200
7-23-68	24.4	55	300	5.6	65	5.5	7.8	77		150	128					2,900
7-24-68	25.0	45	300	5.4	64	4.7	7.8	78		150	130					2,000
7-25-68	25.0	30	290	4.9	59	6.5	7.8	--		145	148					1,500
7-26-68	25.0	50	250	5.9	65	5.5	8.0	--		125	140	58				13,000
7-27-68	25.5	45	290	6.4	78	7.2	7.8	97		145	150					8,000
7-28-68	24.4	65	290	6.1	72	6.0	8.2	88		145	130					9,000
7-29-68	23.0	55	280	6.2	71	5.2	8.2	98		140	128		26			6,750

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-30-68	23.0	50	270	7.5	87	5.4	8.4	8.4	94	135	124					8,200
7-31-68	23.3	35	290	6.6	77	6.0	8.4	8.4	75	145	126					900
July Avg.	23.1	40	281	4.7	54	6.0	7.7	7.7	86	136	137	58	27			3,985
Max.	25.5	100	300	7.5	87	.7	8.4	8.4	101	150	164	58	28			13,000
Min.	21.1	25	250	1.7	19	4.6	7.2	7.2	70	80	124	58	26			400
8-1-68	23.3	40	298	--	--	6.4	8.4	8.4	--	149	--	24	28			1,150
8-2-68	23.3	75	290	6.3	73	4.6	8.4	8.4	93	145	150					2,800
8-3-68	24.4	45	280	5.2	61	5.8	8.4	8.4	79	140	126					8,650
8-4-68	24.4	50	260	5.5	65	5.8	8.4	8.4	101	130	140					4,930
8-5-68	24.4	30	290	3.2	38	6.4	7.8	7.8	100	145	128					3,750
8-6-68	24.4	40	310	2.6	30	6.0	7.8	7.8	105	155	118					12,000
8-7-68	24.4	60	--	6.0	70	5.9	8.4	8.4	95	--	132					5,000
8-8-68	25.5	45	300	4.7	56	5.9	8.0	8.0	99	150	128		26			4,500
8-9-68	25.5	85	200	4.7	56	7.0	8.0	8.0	96	100	136					2,100
8-10-68	26.1	55	300	6.3	77	5.9	8.2	8.2	98	150	124					950
8-11-68	23.8	90	300	5.3	62	6.9	8.4	8.4	100	150	128					8,050
8-12-68	23.8	45	290	6.6	78	6.0	8.4	8.4	99	145	124					4,750
8-13-68	23.8	50	300	4.2	49	5.9	8.4	8.4	96	150	124					14,000
8-14-68	23.8	45	300	6.6	77	4.3	8.4	8.4	102	150	130					--
8-15-68	23.8	35	--	6.3	74	7.0	8.4	8.4	95	--	136			0.06	0.0	12,000
8-16-68	23.8	45	260	6.6	78	5.6	8.2	8.2	--	130	132					7,200
8-17-68	25.0	55	--	6.8	81	5.8	8.4	8.4	101	--	136		26			7,000
8-18-68	25.0	50	--	6.2	74	5.3	8.4	8.4	99	--	134					7,900
8-19-68	25.0	45	290	5.9	70	4.3	8.4	8.4	99	145	142					24,000
8-20-68	25.5	40	290	5.9	71	3.9	8.4	8.4	96	145	132					6,100
8-21-68	25.5	50	300	5.2	62	4.6	8.4	8.4	102	150	138					600
8-22-68	25.5	50	280	6.3	76	4.7	8.4	8.4	90	140	130					3,700

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-23-68	25.5	40	260	6.4	78	5.0	8.4	8.4	--	130	122					4,000
8-24-68	27.2	35	300	6.6	82	5.0	8.4	8.4	100	150	124					3,450
8-25-68	26.6	30	280	6.2	76	--	8.4	8.4	98	140	126					--
8-26-68	24.4	80	270	6.3	75	4.6	8.4	8.4	96	135	126					32,000
8-27-68	22.1	150	260	7.7	87	5.9	8.4	8.4	84	130	118					39,500
8-28-68	22.2	80	260	8.6	98	5.3	8.4	8.4	84	130	144		24			1,600
8-29-68	22.0	55	230	8.1	92	5.1	8.4	8.4	67	115	130	25	24	0.01	0.0	170,000
8-30-68	22.2	45	260	7.6	87	4.5	8.4	8.4	88	130	132					290,000
8-31-68	22.2	50	260	7.8	90	5.9	8.4	8.4	92	130	124					410,000
Aug. Avg.	24.3	55	269	6.1	71	5.5	8.3	8.3	95	139	130	25	26	0.04	0	37,644
Max.	27.2	150	310	8.1	98	7.0	8.4	8.4	102	155	150	25	28	0.06	0	410,000
Min.	22.0	30	260	2.6	30	3.9	7.8	7.8	67	115	118	24	24	0.01	0	600
9-1-68	22.2	70	280	6.7	76	5.3	8.4	8.4	86	140	132		26			70,000
9-2-68	22.2	35	220	6.3	72	6.0	8.4	8.4	--	110	128	24		0.06	0	16,000
9-3-68	21.6	50	300	7.6	86	4.7	8.4	8.4	85	150	128					24,000
9-4-68	21.6	40	300	6.8	76	3.4	8.4	8.4	68	150	128					7,000
9-5-68	21.6	30	220	6.8	76	4.4	8.4	8.4	85	110	122					35,000
9-6-68	21.6	40	220	6.5	73	5.7	7.4	7.4	86	110	126					58,000
9-7-68	21.1	50	300	7.4	82	5.5	8.4	8.4	96	150	124					15,000
9-8-68	21.1	55	300	7.8	87	5.2	8.4	8.4	80	150	128					56,000
9-9-68	21.1	40	300	7.3	82	4.8	8.4	8.4	92	150	132		24			38,000
9-10-68	21.1	40	300	7.6	85	4.6	8.4	8.4	98	150	134					35,000
9-11-68	20.5	60	300	7.8	86	4.6	8.4	8.4	79	150	126					27,000
9-12-68	--	95	270	7.2	--	5.0	8.4	8.4	90	136	120					7,833
9-13-68	20.0	40	240	8.1	88	5.6	8.4	8.4	84	120	120	29		0.01	0	17,000
9-14-68	20.5	45	250	8.4	93	4.6	8.4	8.4	72	125	120					17,700
9-15-68	20.0	30	250	6.8	74	5.7	8.4	8.4	79	125	130					27,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	20.5	35	260	5.6	62	5.2	8.4	8.4	78	130	120					18,000
9-17-68	20.0	25	260	7.5	82	5.3	8.4	8.4	82	130	122					29,000
9-18-68	20.0	40	260	7.9	87	3.8	8.4	8.4	75	130	130					7,700
9-19-68	19.0	25	220	7.8	83	5.8	8.4	8.4	95	110	150	29		0.18	0	7,100
9-20-68	20.0	25	200	7.9	87	5.2	8.4	8.4	93	100	136					18,000
9-21-68	21.1	40	280	7.9	88	3.6	8.4	8.4	97	140	130		26			3,600
9-22-68	21.1	25	280	6.3	70	4.7	8.2	8.2	95	140	136					12,500
9-23-68	21.1	25	290	6.9	76	5.0	8.2	8.2	89	145	144					13,400
9-24-68	21.6	25	290	7.8	88	4.5	8.2	8.2	93	145	140					10,250
9-25-68	21.6	30	280	7.7	87	2.9	8.2	8.2	65	140	134					1,050
9-26-68	20.5	25	230	7.2	80	5.9	8.4	8.4	--	115	130					1,600
9-27-68	20.0	30	210	7.7	84	5.7	8.4	8.4	95	105	146		26	0.05		13,200
9-28-68	20.0	80	260	8.4	92	5.4	8.4	8.4	82	130	152					66,000
9-29-68	19.4	25	260	8.8	95	5.3	8.4	8.4	102	130	142	26				32,670
9-30-68	18.8	25	250	8.0	86	3.4	8.4	8.4	97	125	126					33,000
Sept. Avg.	20.7	40	263	7.4	82	4.9	8.3	8.3	86	131	131	27	26	0.08	0	23,920
Max.	22.2	95	300	8.8	95	6.0	8.4	8.4	102	150	152	29	26	0.18	0	70,000
Min.	18.8	25	200	5.6	70	2.9	7.4	7.4	65	136	120	24	24	0.01	0	1,050
10-1-68	18.8	25	260	8.4	89	5.0	8.4	8.4	100	130	126		26			17,000
10-2-68	18.8	40	270	8.9	95	3.8	8.4	8.4	104	135	150					17,000
10-3-68	18.8	30	270	7.5	80	6.5	8.4	8.4	90	135	132					6,600
10-4-68	16.0	55	180	8.1	81	4.6	8.4	8.4	90	--	146	28		0.03		12,300
10-5-68	14.4	85	300	8.9	86	4.7	8.4	8.4	97	150	130					2,550
10-6-68	15.5	25	280	8.7	86	3.8	8.4	8.4	103	140	146					5,900
10-7-68	13.8	25	250	9.4	90	5.3	8.4	8.4	85	125	134					34,333
10-8-68	14.4	25	250	9.6	93	3.7	8.4	8.4	107	125	140					32,500
10-9-68	14.4	45	300	9.4	91	3.6	8.4	8.4	92	150	142					48,500

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	15.0	25	220	9.0	98	3.7	8.4	8.4	90	110	138	21		0.04		13,000
10-11-68	15.0	25	240	8.8	87	4.3	8.4	8.4	94	120	140		26			80,250
10-12-68	15.5	25	280	8.6	85	3.9	8.2	8.2	100	140	128					134,000
10-13-68	15.5	35	250	7.9	79	5.2	8.2	8.2	71	125	132					118,000
10-14-68	15.5	45	250	7.7	77	5.0	8.4	8.4	81	125	148					190,000
10-15-68	15.5	30	250	8.2	82	4.8	8.2	8.2	102	125	128					52,000
10-16-68	16.6	25	300	7.6	77	4.3	8.2	8.2	99	150	146					32,000
10-17-68	16.0	25	250	8.5	86	4.2	8.4	8.4		125	140	21		0.04		6,000
10-18-68	16.0	25		8.3	84	4.7	8.4	8.4	97	115	140					44,500
10-19-68	16.6	25	260	7.8	79	4.0	8.2	8.2	100	130	126					5,200
10-20-68	16.6	25	240	8.8	90	5.1	8.4	8.4	101	120	140		24			9,733
10-21-68	15.5	35	250	8.8	87	4.7	8.4	8.4	101	125	152					3,450
10-22-68	14.0	40	250	9.0	87	4.2	8.4	8.4	99	125	138					69,000
10-23-68	14.0	45	300	9.4	90		8.4	8.4	105	150	158					
10-24-68	13.0	25	200	9.5	90		8.4	8.4	93	100	140	13		0.03		11,600
10-25-68	13.0	40	220	10.0	94	4.3	8.2	8.2	98	110	150					26,000
10-26-68	12.2	60	250	9.6	88	4.2	8.4	8.4	100	125	130					1,850
10-27-68	11.1	25	300	9.2	84		8.4	8.4	102	150	140					10,000
10-28-68	10.0	35	230	10.2	90		8.4	8.4	80	115	152					2,000
10-29-68	10.0	50		10.5	93		7.6	7.6	73		142					
10-30-68	9.0	50	220	11.0	95	3.7	7.6	7.6	98	110	168	25		0.07		1,900
10-31-68	9.0	35	230	10.1	87	5.3	8.4	8.4	100	115	134					11,000
Oct. Avg.	14.5	36	253	8.9	84	4.5	8.3	8.3	95	127	140	22	25	0.04		34,419
Max.	18.8	85	300	11.0	98	6.5	8.4	8.4	107	150	158	28	26	0.07		190,000
Min.	9.0	25	180	7.5	77	3.6	7.6	7.6	71	110	126	13	24	0.03		1,850
11-1-68	11.1	25	190	11.0	99	4.5	8.4	8.4	98	95	140		20			4,000
11-2-68	10.0	25	230	11.3	100	3.0	8.4	8.4	97	115	144					3,200

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	10.0	40	210	11.1	98	5.2	8.4	96	105	158						1,350
11-4-68	10.0	30	240	10.3	90	4.3	8.4	70	120	150						400
11-5-68	10.0	30	220	11.3	100	4.0	8.4	95	110	148						14,500
11-6-68	10.0	40	225	10.7	95	5.5	8.4	96	113	144						600
11-7-68	10.0	100	260	9.6	84	7.1	8.4	90	130	130						11,000
11-8-68	10.0	170	190	10.0	87	7.1	8.4	90	95	128						4,600
11-9-68	9.0	45	200	11.0	95	3.6	8.2	92	100	134		26		0.07		300
11-10-68	8.0	55	200	11.0	93	4.9	8.4	76	100	128		22				2,050
11-11-68	7.7	80	230	10.9	91	3.7	8.2	77	115	134						1,750
11-12-68	7.7	90	240	10.7	91	4.3	7.8	98	120	134						9,350
11-13-68	6.6	180	250	11.8	97	5.6	8.2	77	125	166						1,150
11-14-68	6.0	70		12.0	97	4.9	8.4	103		172		38		0.09		2,300
11-15-68	7.7	70	230	11.6	97	3.3	8.4	99	115	152						1,550
11-16-68	7.2	70	270	12.4	103	4.1	8.4	102	135	138						2,800
11-17-68	7.7	60	220	11.8	97	3.9	7.8	97	110	144						1,950
11-18-68	7.3	35	260	11.1	92	9.5	8.4	93	130	124						700
11-19-68	7.7	60	250	12.2	101	4.3	8.2	97	125	132						3,500
11-20-68	5.5	160	240	11.9	94	3.2	8.0	99	120	128		24				700
11-21-68	5.5	100	230	12.2	97	4.6	8.0	96	115	142						400
11-22-68	2.2	45	180	13.4	95	4.4	8.4	82	90	140		26		0.10		1,350
11-23-68	5.5	35	260	13.1	104	2.5	8.2	104	130	126						300
11-24-68	4.4	25	220	13.2	102	5.9	8.2	84	110	150						100
11-25-68	5.5	35	210	13.2	104	3.0	8.2	105	105	152						300
11-26-68	5.5	25	240	13.4	106	4.8	8.2	105	120	162						0
11-27-68	5.5	25	240	12.7	101	4.6	8.2	97	120	144						800
11-28-68	5.5	25	150	11.9	94	3.3	8.4	96	75	160						15,500
11-29-68	5.5	25	210	11.7	93	2.6	8.4	94	105	152		22	20	0.04		4,600
11-30-68	5.5	35	250	11.9	94	5.1	8.4	101	125	150						950

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	7.3	60	226	12.5	96	4.6	8.3	93	111	144	28	22	0.07			3,068
Max.	11.1	180	270	13.4	106	9.5	8.4	105	130	172	38	24	0.10			15,500
Min.	4.4	25	150	9.6	84	2.6	7.8	70	75	126	22	20	0.04			0
12-1-68	5.5	25	230	12.8	101	6.1	8.2	73	115	152		20				1,100
12-2-68	5.5	25	230	12.8	101	3.9	8.2	99	115	136						28,000
12-3-68	5.5	25	220	12.7	100	4.9	8.0	99	110	142						1,300
12-4-68	5.5	60	250	12.4	98	4.6	8.0	101	125	134						
12-5-68	5.5	65	190	12.8	101	2.7	8.2	90	95	170						
12-6-68	5.5	90		13.8	109	4.6	8.4	90		146				0.12		550
12-7-68	2.7	45	200	13.3	97	3.8	8.2	92	100	134						600
12-8-68	2.7	50	200	13.8	102	3.8	8.2	94	100	122						100
12-9-68	1.6	140	400	14.5	104	7.5	7.8	140	200	210		28				3,750
12-10-68	1.1	150	400	14.3	101	9.1	8.0	137	200	192						34,000
12-11-68	1.1	65	310	14.5	103	6.9	7.8	98	155	158						5,366
12-12-68	1.1	35	222	14.7	104	3.9	8.4	75	111	152						22,000
12-13-68	2.7	45	200	13.4	97	4.2	8.4	93	100	160		25		0.09		78,500
12-14-68	2.2	80	250	13.7	101	4.8	8.0	102	125	150						1,900
12-15-68	1.1	130	270	14.4	102	4.8	8.0	115	135	190						1,250
12-16-68	1.1	100	300	15.0	107	11.5	8.0	116	150	208						6,666
12-17-68	1.1	35	290	15.5	110	7.7	7.8	110	145	154						35,500
12-18-68	1.1	50	360	14.4	102	8.3	7.8	109	180	180						5,600
12-19-68	1.1	50	280	14.3	101	7.4	8.2	98	140	200						2,800
12-20-68	1.1	30	230	14.7	104	2.1	8.2	110	115	174		53		0.05		34,500
12-21-68	1.1	60	240	14.4	102	8.4	7.8	107	120	164		26				2,700
12-22-68	1.1	35	220	14.4	102	5.4	7.8	88	110	128						8,333
12-23-68	1.1	50	210	14.7	104	5.2	8.2	87	105	150						950
12-24-68	0.5	35	270	14.9	104	6.7	7.8	100	135	160						0
12-25-68	0.5	35	250	13.7	96	5.2	8.4	59	125	150						750

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Port Clinton - C0704

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	0.5	40	230	15.4	107		4.9	8.4	93	115	186	37		0.05		300
12-27-68	2.5	35	250	13.9	102		5.8	8.4	102	125	150					100
12-28-68	1.1	25	230	15.4	109		4.8	8.2	102	115	144					100
12-29-68	1.1	90	190	15.2	108		5.9	8.2	74	145	156		24			0
12-30-68	1.1	45	300	14.4	102		6.3	7.8	104	150	164					19,000
12-31-68	1.1	30	270	13.9	98		8.3	7.1	76	135	144					2,550
Dec. Avg.	2.2	57	256	14.1	102		6.2	8.0	98	127	160	36	24	0.08		10,285
Max.	5.5	150	400	15.5	110		11.5	8.4	140	200	216	53	28	0.12		78,500
Min.	0.5	25	190	12.4	96		2.1	7.1	59	95	122	25	23	0.05		0

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	19.0	40		--	--		2.9	8.1	91		132	--				91
7-2-68	21.0	20		5.8	64		2.8	8.0	93		124	17				4
7-3-68	21.0	25		7.2	80		--	8.2	95		128	--				0
7-4-68	21.0	10		--	--		3.1	8.3	96		--	--				--
7-5-68	21.0	20		7.6	84		3.8	8.3	94		130	20				7
7-6-68	21.0	9		--	--		2.9	8.3	97		--	--				--
7-7-68	21.0	7		--	--		3.3	8.1	95		--	--				--
7-8-68	21.0	10		4.7	52		3.2	7.9	95		130	18				23
7-9-68	20.5	30		4.5	50		3.0	7.9	94		136	18				4
7-10-68	21.0	80		5.7	63		3.0	7.9	95		126	18				9
7-11-68	21.0	30		6.8	76		3.1	8.2	94		130	--				4
7-12-68	21.3	15		4.8	53		3.0	8.0	92		126	--				9
7-13-68	21.0	10		--	--		3.1	7.9	95		--	--				--
7-14-68	21.0	10		--	--		3.2	7.9	96		--	--				--
7-15-68	21.0	10		3.5	38		3.5	7.8	94		132	--				93
7-16-68	21.0	10		1.9	20		3.3	7.7	95		132	17				0
7-17-68	21.0	9		2.2	24		3.4	7.7	95		124	--				9
7-18-68	21.0	10		1.4	15		3.1	7.7	97		130	--				23
7-19-68	21.0	8		0.8	8		3.1	7.7	96		130	--				15
7-20-68	23.0	10		--	--		3.0	8.1	95		--	--				--
7-21-68	23.0	10		--	--		3.1	7.8	95		--	--				--
7-22-68	21.0	10		0.8	8		3.9	7.6	97		126	--				23
7-23-68	23.0	15		6.1	70		3.6	8.3	97		128	15				9
7-24-68	23.0	10		4.2	48		3.0	7.8	94		128	--				43
7-25-68	23.8	7		3.9	45		2.9	8.3	92		128	--				4
7-26-68	24.0	7		7.3	86		2.8	8.5	93		126	--				20
7-27-68	24.0	10		--	--		2.8	8.1	95		--	--				--
7-28-68	24.0	10		--	--		3.1	7.9	95		--	--				--
7-29-68	23.0	10		6.3	73		3.1	8.3	96		130	--				15

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-30-68	23.8	6		6.2	72		3.0	8.3	93		124	16				23
7-31-68	24.0	6		6.1	71		3.1	8.3	94		128	--				23
July Avg.	21.8	15		4.7	52		3.1	8.0	95		129	17				21
Max.	24.0	80		7.6	86		3.9	8.3	97		136	20				93
Min.	19.0	6		0.8	8		2.8	7.7	91		124	15				0
8-1-68	23.5	7		5.8	67		3.2	8.2	93		134	--				4
8-2-68	24.0	8		6.3	74		3.2	8.3	93		128	--				9
8-3-68	24.0	10		--	--		3.3	8.1	94		--	--				--
8-4-68	24.0	10		--	--		3.4	8.0	96		--	--				--
8-5-68	24.0	7		3.2	37		3.4	7.7	95		132	--				9
8-6-68	23.8	5		2.7	31		3.4	7.8	96		134	16				11
8-7-68	24.0	6		2.6	30		3.5	7.8	95		134	--				15
8-8-68	24.0	5		3.4	40		3.4	7.8	95		130	--				93
8-9-68	24.3	10		4.4	52		3.0	8.0	93		130	--				23
8-10-68	24.5	15		--	--		3.1	8.3	97		--	--				--
8-11-68	24.5	35		--	--		4.0	8.0	98		--	--				--
8-12-68	24.5	10		6.0	71		3.8	8.2	98		126	--				7
8-13-68	24.5	10		4.9	58		3.4	8.0	98		136	17				9
8-14-68	24.3	7		5.5	65		3.4	8.0	96		124	--				43
8-15-68	24.5	10		7.1	85		3.2	8.3	96		134	--				9
8-16-68	24.5	10		6.1	71		3.0	8.3	92		128	--				21
8-17-68	24.5	10		--	--		2.8	8.2	92		--	--				--
8-18-68	24.5	10		--	--		2.8	8.1	95		--	--				--
8-19-68	25.0	20		6.6	79		2.9	8.2	94		132	--				15
8-20-68	25.0	15		6.8	81		3.3	8.2	90		126	14				4
8-21-68	25.0	7		6.4	76		3.2	8.3	92		128	--				23
8-22-68	25.0	6		3.4	41		3.1	8.0	94		128	--				15

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-23-68	25.0	7		4.3	51	3.3	3.3	7.8	92		128	--				9
8-24-68	25.0	10		--	--	3.3	3.3	7.8	95		--	--				--
8-25-68	24.0	10		--	--	3.6	7.7	7.7	95		--	--				--
8-26-68	24.0	20		5.1	60	3.7	8.0	8.0	93		132	--				11
8-27-68	23.0	30		6.2	71	3.4	8.0	8.0	94		146	18				7
8-28-68	23.0	25		8.2	96	3.3	8.4	8.4	94		134	--				15
8-29-68	23.0	15		8.5	99	3.3	8.5	8.5	95		130	--				9
8-30-68	23.0	10		8.9	103	3.4	8.6	8.6	93		134	--				9
8-31-68	23.0	15		--	--	3.4	8.5	8.5	94		--	--				--
Aug. Avg.	24.1	10		5.6	65	3.3	8.1	8.1	94		131	16				17
Max.	25.0	35		8.9	103	4.0	8.6	8.6	98		146	18				93
Min.	23.0	5		2.6	30	2.8	7.7	7.7	90		126	14				4
9-1-68	23.0	8		--	--	3.5	8.7	8.7	95		--	--				--
9-2-68	22.0	7		--	--	3.5	8.4	8.4	95		--	--				--
9-3-68	22.0	7		7.3	83	3.3	8.5	8.5	93		136	19				15
9-4-68	22.0	7		6.7	76	3.0	8.4	8.4	92		134	--				9
9-5-68	22.3	8		6.8	77	2.7	8.4	8.4	91		128	--				43
9-6-68	22.0	10		7.2	81	2.5	8.4	8.4	91		134	--				43
9-7-68	22.0	10		--	--	2.4	8.4	8.4	92		--	--				--
9-8-68	21.0	10		--	--	2.5	8.3	8.3	93		--	--				--
9-9-68	22.0	7	275	8.3	95	2.2	8.6	8.6	91	226	138	--				15
9-10-68	22.0	6	265	7.9	90	2.0	8.6	8.6	91	218	132	17				4
9-11-68	21.3	15	254	7.7	86	2.1	8.5	8.5	93	209	132	--				4
9-12-68	20.3	10	250	7.6	83	2.3	8.4	8.4	93	209	132	--				15
9-13-68	21.0	10	254	7.8	87	2.3	8.4	8.4	93	209	134	--				21
9-14-68	21.0	10	--	--	--	2.3	8.1	8.1	94	--	--	--				--
9-15-68	21.0	10	--	--	--	2.3	8.1	8.1	94	--	--	--				--

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	21.5	7	265	8.1	91	2.3	8.5	93	217	140	--	--	--	--	--	9
9-17-68	21.0	6	265	7.2	80	2.3	8.4	93	218	132	16	16	16	16	16	93
9-18-68	21.0	7	276	7.4	82	2.2	8.4	93	226	134	--	--	--	--	--	23
9-19-68	21.0	8	265	7.5	84	2.3	8.3	93	218	136	--	--	--	--	--	9
9-20-68	21.0	8	265	7.0	78	2.3	8.3	93	218	132	--	--	--	--	--	43
9-21-68	21.0	10	--	--	--	2.4	8.3	95	--	--	--	--	--	--	--	--
9-22-68	21.0	10	--	--	--	2.5	8.3	95	--	--	--	--	--	--	--	--
9-23-68	21.0	15	276	6.2	69	2.3	8.1	95	226	134	--	--	--	--	--	23
9-24-68	21.0	6	276	6.3	70	2.3	8.2	94	226	134	16	16	16	16	16	15
9-25-68	21.0	6	276	6.8	76	2.5	8.1	95	226	134	--	--	--	--	--	23
9-26-68	20.5	5	265	7.2	79	2.4	8.2	93	218	136	--	--	--	--	--	7
9-27-68	20.3	4	265	7.9	87	2.3	8.3	95	218	134	--	--	--	--	--	9
9-28-68	20.5	6	--	--	--	2.4	8.2	96	--	--	--	--	--	--	--	--
9-29-68	20.0	5	--	--	--	2.5	8.1	94	--	--	--	--	--	--	--	--
9-30-68	20.0	6	276	7.9	86	2.3	8.2	95	226	140	--	--	--	--	--	150
Sept. Avg.	21.2	8	267	7.3	82	2.5	8.3	93	219	134	17	17	17	17	17	29
Max.	23.0	15	276	8.3	95	3.5	8.7	95	226	140	19	19	19	19	19	150
Min.	20.0	4	250	6.2	69	2.0	8.1	91	209	128	16	16	16	16	16	4
10-1-68	20.0	6	276	8.0	87	2.4	8.3	94	226	140	20	20	20	20	20	7
10-2-68	20.0	4	276	7.9	86	2.3	8.3	95	226	134	--	--	--	--	--	11
10-3-68	20.0	5	276	8.0	87	2.3	8.2	94	226	137	--	--	--	--	--	15
10-4-68	18.0	6	276	8.7	91	2.2	8.4	95	226	140	--	--	--	--	--	4
10-5-68	17.8	5	--	--	--	2.3	8.1	98	--	--	--	--	--	--	--	--
10-6-68	17.8	5	--	--	--	2.3	8.2	98	--	--	--	--	--	--	--	--
10-7-68	17.0	5	244	8.9	91	2.2	8.3	97	200	132	--	--	--	--	--	43
10-8-68	17.0	4	254	8.7	89	2.0	8.3	96	209	134	16	16	16	16	16	43
10-9-68	17.0	10	265	9.2	94	1.9	8.3	95	218	134	--	--	--	--	--	23

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky -B1101

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	17.0	7	265	8.7	89		2.0	8.3	95	218	134					43
10-11-68	17.0	6	276	8.9	91		1.9	8.2	93	226	136					23
10-12-68	17.0	10					1.9	8.2	94							
10-13-68	17.0	10					1.9	8.2	95							
10-14-68	17.0	10	276	6.9	71		1.9	8.0	95	226	138					23
10-15-68	17.0	6	276	6.7	69		2.0	8.1	95	226	138	17				43
10-16-68	17.2	7	276	7.7	80		2.0	8.1	95	226	134					36
10-17-68	17.3	7	876	7.2	75		2.0	8.0	95	235	132					460
10-18-68	18.0	7					2.0	8.0	95							
10-19-68	18.0	10					2.1	8.0	95							
10-20-68	18.0	10					2.3	8.1	97							
10-21-68	17.0	8	276	9.0	93		2.2	8.3	96	226	134					43
10-22-68	17.0	5	276	9.4	97		2.2	8.5	97	226	140	17				93
10-23-68	16.0	4	265	9.4	95		2.0	8.5	96	218	136					93
10-24-68	15.5	5	276	9.2	92		2.0	8.5	95	226	128					23
10-25-68	15.0	5	276	9.0	89		1.7	8.5	97	226	134					23
10-26-68	15.0	7					1.8	8.3	99							
10-27-68	14.0	4					2.0	8.4	100							
10-28-68	13.5	5	276	10.1	97		2.0	8.5	95	226	132					43
10-29-68	12.2	4	297	10.0	93		1.9	8.5	96	244	132	15				43
10-30-68	11.7	6	307	10.3	95		1.8	8.5	98	252	138					23
10-31-68	12.0	6	318	10.3	96		1.8	8.5	98	261	136					4
Oct. Avg.	16.5	6	272	8.7	89		2.0	8.3	96	227	135	17				53
Max.	20.0	10	318	10.3	97		2.4	8.5	100	261	140	20				460
Min.	11.7	4	244	6.7	71		1.7	8.0	93	200	128	15				4
11-1-68	12.5	5	307	10.4	97		1.8	8.5	97	252	138					43
11-2-68	12.5	5					1.8	8.3	98							

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	12.0	4				1.9	8.2	99		244	136					15
11-4-68	13.0	5	297	10.6	100	1.7	8.6	98		218	134	16				4
11-5-68	13.0	7	265	10.6	100	1.8	8.6	96		261	134					93
11-6-68	13.0	185	318	10.8	102	2.1	8.4	98		244	144					1,100
11-7-68	11.8	270	297			5.4	8.1	97		244	126					240
11-8-68	11.0	110	297	10.2	92	2.8	8.1	95		244						
11-9-68	11.0	30				3.0	8.2	95								
11-10-68	10.0	20				2.3	8.2	96								
11-11-68	10.0	65	311	10.5	98	2.2	8.2	95		261	128					120
11-12-68	9.8	295	297	9.9	87	3.9	8.0	94		244	134	16				
11-13-68	8.0	160	307	11.2	95	3.3	8.2	99		252	134					1,100
11-14-68	8.5	60	307	11.1	95	2.1	8.2	95		252	130					43
11-15-68	9.0	35	276	11.1	96	1.6	8.2	91		226	128					210
11-16-68	9.0	140				2.3	8.1	94								
11-17-68	9.0	115				2.7	8.1	93								
11-18-68	9.0	60	254	11.1	96	2.3	8.2	92		209	118					460
11-19-68	9.0	30	265	10.9	94	1.8	8.2	90		218	120	13				39
11-20-68	8.0	50	254	11.6	98	1.7	8.2	94		209	118					240
11-21-68	7.0	40	286	11.6	95	1.7	8.2	94		235	120					240
11-22-68	7.3	35	276	11.7	96	1.5	8.2	92		226	122					93
11-23-68	8.0	15				1.7	8.2	91								
11-24-68	9.0	10				1.6	8.4	89								
11-25-68	8.0	10	265	11.7	97	1.3	8.3	89		218	114					43
11-26-68	8.5	8	276	11.8	100	1.1	8.3	90		226	120	14				9
11-27-68	8.0	20	297	11.9	99	1.1	8.3	88		244	116					15
11-28-68	8.0	8				1.2	8.2	91								
11-29-68	8.0	25	276	11.8	99	1.3	8.3	88		226	114					43
11-30-68	8.0	10				1.1	8.3	93								

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - BII01																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.6	61	286	11.1	97	2.1	8.2		94	235	126	15				208
Max.	13.0	295	318	11.9	102	5.4	8.5		99	261	138	16				1,100
Min.	7.0	4	254	9.9	87	1.1	8.0		88	209	114	13				4
12-1-68	8.0	10				1.2	8.2		96							
12-2-68	7.5	10	265	12.0	100	1.2	8.3		90	218	116					9
12-3-68	7.5	8	276	12.0	100	1.1	8.3		90	226	118	12				43
12-4-68	7.0	25	286	12.0	99	1.3	8.3		92	235	120					150
12-5-68	6.5	30	286	12.1	99	1.3	8.4		93	235	120					23
12-6-68	6.0	30	265	12.4	99	1.5	8.3		90	218	120					23
12-7-68	6.0	10				1.3	8.3		92							
12-8-68	5.0	10				1.3	8.3		93							
12-9-68	4.0	35	276	13.2	100	1.2	8.3		91	226	114	14				93
12-10-68	4.5	80	276	12.8	99	1.6	8.2		91	226	120					240
12-11-68	3.0	30	265	13.6	101	1.2	8.2		91	218	110					150
12-12-68	3.0	20	265	13.4	99	1.3	8.3		90	218	120					43
12-13-68	4.0	10	307	13.4	103	1.1	8.4		90	252	118					460
12-14-68	4.0	10				1.2	8.2		91							
12-15-68	4.0	150				2.2	8.1		92							
12-16-68	2.0	160	297	14.1	102	2.2	8.3		93	244	124					240
12-17-68	3.0	70	254	14.2	105	1.0	8.2		93	209	110	11				23
12-18-68	2.3	45	244	14.5	105	1.2	8.3		91	200	114					43
12-19-68	2.0	35	276	13.9	100	1.1	8.2		92	226	124					23
12-20-68	4.0	15	265	13.0	100	1.2	8.2		91	218	116					43
12-21-68	3.0	10				1.2	8.1		93							
12-22-68	3.0	30				1.5	8.1		95							
12-23-68	4.0	25	276	13.0	100	1.7	8.2		94	226	122					43
12-24-68	3.0	25	265	13.8	103	1.7	8.2		92	218	116					
12-25-68	2.0	8	265	10.2	74	1.4	8.2		92	218	118					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Sandusky - B1101																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	3.0	6					1.4	8.2	91							
12-27-68	3.0	6					1.8	8.3	93							
12-28-68	3.0	5					1.8	8.3	96							
12-29-68	2.0	5					2.1	8.3	95							
12-30-68	2.0	5	254	14.0	101		2.0	8.2	93	209	124					9
12-31-68	2.8	8	297	14.6	107		1.7	8.2	91	244	122	13				23
Dec. Avg.	4.0	30	273	13.1	100		1.4	8.2	92	224	118	12				93
Max.	8.0	160	307	14.6	105		2.2	8.4	90	252	124	14				240
Min.	2.0	5	244	10.2	74		1.0	8.1	96	209	114	11				9

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-8-68	21.0	5	311	6.3	70	2.7	8.3	90	265	148	29	27	0.1	0.2		23
7-9-68	21.0	6	271	5.6	61	3.3	8.2	94	227	144						23
7-10-68	21.5	6	271	6.2	69	3.6	8.2	92	227	148						43
7-11-68	21.5	7	291	6.3	70	3.3	8.4	91	243	142						93
7-12-68	21.5	5	311	6.2	69	3.2	7.9	94	261	140						93
7-15-68	21.5	3	311	4.3	49	3.9	7.9	92	261	144	21	27	0.1	0.5		75
7-16-68	22.0	3	291	3.7	42	4.1	8.1	94	243	160						75
7-17-68	22.5	3	311	2.5	28	3.8	7.9	96	261	146						43
7-18-68	22.0	2	311	2.2	24	4.1	7.9	94	261	152						43
7-19-68	23.0	3	311	5.0	57	3.8	8.1	94	261	144						43
7-22-68	22.0	3	311	2.0	22	3.3	7.8	94	261	140	20	27	0.1	0.2		43
7-23-68	23.0	3	311	6.9	80	3.9	8.5	95	261	138						9
7-24-68	23.0	4	191	5.4	62	3.6	8.4	94	243	156						23
7-25-68	24.0	4	291	7.0	82	4.4	8.6	94	243	154						93
7-26-68	24.0	5	311	8.9	105	3.4	8.8	91	261	160						20
7-29-68	23.0	4	311	9.0	104	3.7	8.9	93	261	168						0
7-30-68	23.0	5	311	6.9	80	3.0	8.6	94	261	152	27	26	0.05	0.2		93
7-31-68	23.5	3	311	7.3	86	3.3	8.5	94	261	142						150
July Avg.	22.4	4	297	5.7	64	3.6	8.3	93	253	149	24	27	0.08	0.28		55
Max.	24.0	7	311	9.0	104	4.4	8.9	96	265	168	29	27	0.10	0.50		150
Min.	21.0	2	271	2.0	22	2.7	7.8	90	227	138	20	26	0.05	0.20		0
8-1-68	23.0	3	311	6.2	70	2.2	8.4	95	261	146						21
8-2-68	24.0	3	311	6.9	80	3.9	8.3	94	261	174						150
8-5-68	25.0	2	311	4.0	48	3.2	7.9	96	261	160						460
8-6-68	27.0	2	311	3.8	47	4.2	7.9	97	261	179						150
8-8-68	27.0	2	311	5.1	63	5.1	8.0	95	261	154						3
8-9-68	26.0	2	311	4.1	49	5.1	7.8	99	261	150						460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A#204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-10-68	25.0	1	291	6.5	78	5.2	8.2	8.2	95	243	148					43
8-12-68	24.0	4	311	8.0	95	4.4	8.4	8.4	96	261	160					43
8-13-68	24.0	2	311	5.0	59	4.6	7.9	7.9	97	261	160					93
8-14-68	25.0	2	311	5.7	69	4.1	8.3	8.3	96	261	156					15
8-15-68	25.0	3	311	6.2	74	4.2	8.3	8.3	91	261	148					93
8-16-68	26.0	4	311	3.8	46	4.1	8.3	8.3	91	261	130					21
8-19-68	25.0	3	311	6.1	73	3.9	8.3	8.3	91	261	140	28	15	0.12	0.20	9
8-21-68	25.0	3	311	6.8	81	2.9	--	--	--	261	146					23
8-22-68	25.0	2	321	5.7	68	4.0	8.2	8.2	92	268	148					21
8-23-68	26.0	2	311	7.3	90	3.4	8.3	8.3	92	261	146					9
8-26-68	23.0	2	311	5.1	59	4.8	8.1	8.1	94	261	166					20
8-27-68	22.0	3	291	6.2	70	4.0	7.9	7.9	95	243	148	22	25	0.12		29
8-28-68	23.0	3	311	7.8	70	3.0	8.3	8.3	96	261	140					75
8-29-68	22.0	3	291	9.2	104	3.2	8.9	8.9	97	243	164					460
8-30-68	22.0	3	311	7.9	90	3.5	8.6	8.6	96	261	156					15
Aug. Avg.	24.5	3	309	6.1	71	4.0	8.2	8.2	95	259	153	25	20	0.12	0.20	105
Max.	27.0	4	311	9.2	104	5.2	8.9	8.9	99	268	179	28	25	0.12	0.20	460
Min.	22.0	1	291	3.8	46	2.2	7.9	7.9	91	243	130	22	15	0.12	0.20	3
9-2-68	22.0	2	311	5.7	65	4.0	8.5	8.5	92	261	154					0
9-3-68	21.0	3	291	6.1	68	4.2	8.5	8.5	92	243	142	25	27	0.30	0	1,100
9-4-68	22.0	3	331	7.0	79	3.8	8.4	8.4	89	261	142					240
9-5-68	23.0	3	311	5.8	67	4.2	8.2	8.2	94	261	138					93
9-6-68	22.0	2	291	7.0	79	3.3	8.8	8.8	91	243	164					0
9-9-68	22.0	2	331	7.3	83	4.1	8.4	8.4	95	261	158	28	25	0.18		43
9-10-68	22.0	3	311	6.8	77	3.6	8.6	8.6	99	261	182					43
9-11-68	21.0	2	291	7.3	81	4.3	8.5	8.5	96	243	158					240
9-12-68	19.5	2	291	7.7	83	3.3	8.4	8.4	95	243	148					460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-13-68	21.0	2	311	7.5	83	3.0	3.0	8.5	94	261	168	20	29	0.15	0	460
9-16-68	21.0	6	311	6.1	68	3.3	3.3	8.1	92	261	146	20	29	0.15	0	240
9-17-68	21.0	3	311	5.2	58	3.3	3.3	8.2	97	261	160	20	29	0.15	0	2,400
9-18-68	21.0	4	311	6.6	73	3.9	3.9	8.0	98	261	150	20	29	0.15	0	93
9-19-68	22.0	5	311	6.9	78	5.2	5.2	8.5	98	261	160	20	29	0.15	0	15
9-23-68	22.0	5	311	6.1	70	3.7	3.7	8.4	99	261	168	20	29	0.15	0	9
9-24-68	22.0	5	311	6.1	70	4.0	4.0	8.4	96	261	162	20	29	0.15	0	150
9-25-68	21.0	3	311	6.2	69	4.1	4.1	8.0	96	261	162	20	29	0.15	0	240
9-26-68	21.0	5	311	6.1	68	3.5	3.5	8.3	99	261	154	20	29	0.15	0	75
9-27-68	21.0	5	311	8.0	89	4.2	4.2	8.4	97	261	166	20	29	0.15	0	75
9-30-68	19.0	3	291	7.5	80	2.6	2.6	8.0	100	243	152	15	34	0.10	0	93
Sept. Avg.	21.3	3	308	6.7	74	3.8	3.8	8.4	95	257	157	22	29	0.17	0	303
Max.	22.0	6	331	8.0	89	5.2	5.2	8.8	100	261	182	28	25	0.30	0	2,400
Min.	19.0	2	291	5.2	58	2.6	2.6	8.0	89	243	138	18	34	0.10	0	0
10-1-68	20.0	3	291	7.3	80	3.2	3.2	8.5	98	243	154	20	24	0.09	0	0
10-2-68	20.0	3	291	7.1	77	4.3	4.3	8.4	96	243	154	20	24	0.09	0	0
10-3-68	19.0	3	291	6.9	75	4.3	4.3	8.4	94	243	152	20	24	0.09	0	93
10-4-68	18.0	4	291	7.1	75	2.0	2.0	8.4	97	243	168	20	24	0.09	0	460
10-7-68	17.0	3	291	8.0	82	3.4	3.4	8.3	95	243	162	20	24	0.09	0	43
10-8-68	18.0	3	291	7.9	83	3.6	3.6	8.4	97	243	154	20	24	0.09	0	480
10-9-68	17.0	3	291	9.2	95	3.7	3.7	8.2	107	243	156	20	24	0.09	0	460
10-10-68	17.0	7	291	7.9	80	3.2	3.2	8.7	100	243	158	20	24	0.09	0	43
10-11-68	17.0	3	291	8.2	85	2.3	2.3	8.5	97	243	156	20	24	0.09	0	93
10-14-68	17.0	3	291	7.6	78	2.6	2.6	7.9	98	243	156	20	24	0.09	0	93
10-15-68	17.0	3	311	6.8	69	1.9	1.9	8.1	99	261	148	20	24	0.09	0	78
10-16-68	17.0	3	311	7.9	80	2.1	2.1	8.2	98	261	158	20	24	0.09	0	460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn.	T. Coli.
10-17-68	18.0	4	311	6.5	67	2.4	8.2	100	261	152	29					
10-18-68	17.0	3	311	6.8	69	3.5	8.0	98	261	160	75					
10-21-68	16.0	2	311	8.5	85	3.3	8.1	99	261	150	1,100	20	28	0.05	0	
10-22-68	16.0	5	311	8.7	87	2.1	8.6	96	261	164	21					
10-23-68	15.0	3	291	9.0	89	3.0	8.4	100	243	152	240					
10-24-68	15.0	3	291	8.2	80	3.0	8.6	98	243	160	43					
10-25-68	15.0	4	291	7.6	78	2.7	8.5	99	243	162	1,100					
10-28-68	12.5	2	311	9.5	88	2.6	8.2	99	261	150	1,100	24	22	0.02	0	
10-29-68	12.0	5	291	9.2	84	3.1	8.5	99	243	158	93					
10-30-68	11.0	3	311	10.2	92	2.2	8.2	94	261	154	2,400					
10-31-68	12.5	3	311	9.5	88	1.7	8.6	98	261	158	93					
Oct. Avg.	16.2	3	299	8.1	81	2.8	8.3	98	250	156	380	21	25	0.06	0	
Max.	20.0	7	311	10.2	95	4.3	8.7	107	261	168	2,400	24	28	0.09	0	
Min.	11.0	3	291	6.5	67	1.7	7.9	94	243	148	0	20	22	0.02	0	
11-1-68	14.0	3	311	10.2	98	1.6	8.8	98	261	158	15					
11-4-68	14.0	2	291	10.4	100	.8	8.4	94	243	155	23	22	29	0.10	0	
11-5-68	14.0	3	291	9.5	91	2.6	8.6	96	243	152	460					
11-6-68	13.0	6	311	10.1	95	2.0	8.6	98	261	170	1,100					
11-7-68	12.0	5	291	9.4	87	2.5	8.5	97	243	166	1,100					
11-8-68	11.0	6	291	9.3	83	2.3	8.3	95	243	162	1,100					
11-11-68	10.0	4	291	10.5	93	2.6	8.3	97	243	162	240					
11-12-68	10.0	17	311	10.6	94	.9	8.3	97	261	158	1,100	19	24	0.20	0	
11-13-68	8.0	41	291	11.5	97	1.5	8.0	93	243	158	240					
11-14-68	9.0	30	291	11.3	97	1.9	8.2	95	243	158	460					
11-15-68	9.0	22	212	11.2	96	2.2	8.2	94	174	158	1,100					
11-18-68	9.0	25	311	11.1	95		8.2	94	261	134	240	22	25	0.30	0	
11-19-68	8.0	27	311	11.1	94	1.2	8.1	91	261	152	460					

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-20-68	8.0	27	311	12.0	101	1.6	7.8	100	261	152						2,400
11-21-68	8.0	22	311	11.8	99	2.4	8.4	96	261	142						460
11-22-68	8.0	15	311	11.7	98	2.2	8.2	92	261	140						240
11-25-68	9.0	7	291	11.6	100	1.8	8.3	87	243	116		15	28	0.10	0	240
11-26-68	8.0	7	291	11.8	99	1.5	8.4	90	243	166						2,400
11-27-68	8.0	7	272	12.1	102	1.3	8.2	91	225	120						93
11-28-68	10.0	9	291	12.2	107	1.5	8.3	92	243	146						1,100
11-29-68	8.0	13	272	12.0	101	1.4	8.3	89	225	164						1,100
Nov. Avg.	9.5	14	293	11.0	97	1.7	8.3	94	245	152		20	27	0.18	0	735
Max.	14.0	41	311	12.2	107	2.6	8.8	100	261	170		22	29	0.30	0	2,400
Min.	8.0	3	212	9.3	83	.8	7.8	87	174	116		15	24	0.10	0	15
12-2-68	9.0	9	291	12.1	105	1.6	8.4	93	243	154		18	20	0.13	0	1,100
12-3-68	8.0	9	291	12.1	103	1.6	8.2	92	243	162						460
12-4-68	7.0	9	291	12.4	103	1.2	8.2	91	243	134						1,100
12-5-68	6.0	15	291	12.4	100	1.1	8.5	88	243	136						1,100
12-6-68	5.0	20	291	12.9	101	1.0	8.4	90	243	148						1,100
12-9-68	6.0	9	291	14.5	115	0.9	8.3	90	243	146		20	26	0.11	0	23
12-10-68	6.0	15	272	14.4	114	0.7	8.3	91	225	134						1,100
12-11-68	5.0	9	291	13.9	109	0.9	8.3	91	243	136						240
12-12-68	5.0	10	291	14.0	109	0.8	8.3	92	243	160						460
12-13-68	5.0	7	311	13.8	108	1.0	8.2	90	261	162						150
12-16-68	3.0	50	291	14.5	107	1.0	8.0	92	243	148		24	26	0.35	0	43
12-17-68	2.0	30	291	15.1	108	0.8	8.1	94	243	144						1,100
12-18-68	3.0	20	291	13.8	102	0.8	8.1	96	243	162						2,400
12-19-68	4.0	25	311	14.1	106	1.0	8.1	94	261	136						240
12-20-68	3.0	15	272	14.2	105	0.9	8.1	92	225	178						240

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Huron - A1204

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-23-68	3.0	15	291	13.7	102	0.9	8.1	92	243	136	17	22	0.18	0	1,100
12-24-68	3.0	9	291	14.2	105	1.7	8.2	89	243	138					93
12-26-68	3.0	4	291	14.5	107	1.8	8.0	90	243	134					93
12-27-68	4.0	5	311	14.5	110	1.7	8.0	93	261	143					93
12-30-68	2.0	15	291	14.9	108	1.0	8.0	93	243	152	26	18	0.19		1,100
12-31-68	3.0	55	291	14.7	108	1.7	7.9	84	243	160					1,100
Dec. Avg.	4.5	15	292	13.8	106	1.1	8.2	91	244	148	21	22	0.19	0	687
Max.	9.0	55	311	15.1	115	1.8	8.5	96	261	178	26	26	0.35	0	2,400
Min.	2.0	7	272	12.1	100	0.7	7.9	84	225	134	17	18	0.11	0	23

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	21.1	20	235	7.3	81	0.6	8.3	95			124					2,400
7-2-68	21.1	20	240	7.6	85	0.5	8.3	100			122					1,100
7-3-68	21.1	40	235	7.6	85	0.4	8.3	100			124					2,400
7-4-68	21.1	30	245	7.4	83	0.6	8.3	95			126					4,600
7-5-68	21.1	20	250	6.9	77	0.4	8.1	100			126	24				240
7-6-68	21.1	20	250	7.8	87	0.4	8.3	100			123					480
7-7-68	21.1	20	240	6.0	66	0.4	7.8	95			120					240
7-8-68	20.0	20	230	5.2	56	0.8	7.7	90			124					480
7-9-68	20.6	20	225	5.5	56	0.2	7.7	95			122					210
7-10-68	21.7	20	126	6.4	71	0.8	8.0	95			126					210
7-11-68	21.1	20	225	6.2	68	0.9	8.0	90			125					240
7-12-68	20.6	20	225	5.9	65	0.5	7.9	100			124	25				280
7-13-68	20.0	20	230	5.4	58	0.1	7.9	90			120					39
7-14-68	20.0	20	235	5.3	57	0.2	7.7	90			126					110
7-15-68	22.2	20	230	6.7	75	0.7	8.1	95			120					150
7-16-68	22.8	20	230	7.0	80	0.3	7.9	95			124					93
7-17-68	22.2	20	230	7.2	81	0.6	8.3	100			118					43
7-18-68	23.3	20	235	6.4	74	0.9	8.1	100			126					240
7-19-68	23.9	30	235	6.8	80	1.3	8.3	95			126	24				390
7-20-68	23.9	10	235	6.4	75	0.8	8.2	95			--					93
7-21-68	23.1	20	225	4.6	53	1.0	7.9	90		21	--			0.48	0.0	240
7-22-68	23.1	20	230	3.6	42	1.0	7.7	95			--					210
7-23-68	23.3	30	235	6.3	73	1.0	8.2	100			--					290
7-24-68	23.3	20	235	5.5	63	1.0	8.0	100			123					23
7-25-68	23.3	20	235	6.0	69	1.2	8.1	100			121					150
7-26-68	23.3	20	235	5.8	67	1.2	8.2	100			120	25				39
7-27-68	23.3	10	225	4.1	47	1.5	7.8	95			120	26		0.33	0.0	2,400
7-28-68	23.3	20	225	6.3	73	1.0	8.4	95			122	25				4,600
7-29-68	23.3	20	225	6.0	69	1.2	8.4	95			122					240

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-30-68	23.3	10	225	7.1	82	0.6	8.4	95			120					23
7-31-68	23.3	20	215	7.0	81	1.1	8.4	90			122					1,100
July Avg.	22.1	20	229	6.2	70	0.7	8.1	96			123	24	25	0.41	0.0	753
Max.	23.9	40	250	7.8	87	1.5	8.4	100			126	26	25	0.48	0.0	4,600
Min.	20.0	10	126	3.6	42	0.1	7.7	90			118	21	24	0.33	0.0	23
8-1-68	23.0	20	230	6.5	75	1.6	8.3	95			119		25			24
8-2-68	23.0	10	220	7.0	80	0.6	8.4	95			124					200
8-3-68	23.0	10	230	6.9	79	1.2	8.1	95			122	23	24	0.20	0	240
8-4-68	23.0	10	230	6.6	76	1.0	8.4	95			122					39
8-5-68	23.5	20	225	5.4	63	1.2	8.3	100			122					150
8-6-68	24.0	20	225	6.2	73	1.1	8.3	100			126					460
8-7-68	24.5	10	220	5.0	59	1.6	8.2	100			124					240
8-8-68	24.5	20	220	4.3	50	1.4	8.0	100			124	27	25	0.25	0	150
8-9-68	25.0	20	220	5.1	60	1.4	8.0	100			124					240
8-10-68	24.5	20	225	5.1	60	0.9	8.3	100			120		25			1,100
8-11-68	24.0	30	225	5.7	67	1.2	8.1	95			124					460
8-12-68	23.5	20	225	5.3	61	1.3	8.1	100			124					150
8-13-68	23.5	15	230	5.1	59	1.3	8.0	100			126					290
8-14-68	25.0	20	230	6.3	75	0.8	8.3	100			124					2,400
8-15-68	26.0	15	225	6.3	76	1.0	8.3	100			124					460
8-16-68	26.0	15	220	5.5	66	1.2	8.1	100			126					150
8-17-68	25.0	20	200	6.1	72	1.0	8.2	90			118	29	24	0.47	0	240
8-18-68	25.0	20	215	6.1	72	0.7	8.4	95			118					2,400
8-19-68	25.0	20	225	4.9	58	1.0	8.2	100			120					2,400
8-20-68	25.0	15	225	6.0	70	1.2	8.4	100			120					240
8-21-68	25.0	20	225	6.6	78	1.2	8.4	100			126					15
8-22-68	25.0	20	225	5.7	68	0.8	8.3	95			122					43

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-23-68	25.0	20	225	6.3	75	0.7	8.4	100		124		23	23	0.31	0	700
8-24-68	25.0	10	225	6.5	77	1.0	8.4	95		120		23				2,400
8-25-68	26.0	20	230	5.6	67	1.1	8.3	95		128						1,100
8-26-68	25.0	25	225	6.0	72	1.1	8.3	95		122						1,100
8-27-68	24.0	30	220	6.6	77	0.8	8.4	100		122						460
8-28-68	24.0	25	220	6.4	75	0.8	8.4	95		122						210
8-29-68	23.0	15	220	6.4	73	1.9	8.4	90		124		25	25	0.33	0	240
8-30-68	23.0	20	220	6.3	72	1.7	8.4	95		124						2,100
8-31-68	22.0	20	220	7.5	86	1.4	8.4	95		126						4,600
Aug. Avg.	23.5	20	223	6.2	70	1.1	8.3	97		123		25	24	0.31	0	806
Max.	26.0	30	230	7.5	86	1.9	8.4	100		128		29	25	0.47	0	2,400
Min.	22.0	10	200	4.3	50	0.6	8.0	90		118		23	23	0.20	0	15
9-1-68	23.0	20	225	7.5	86	1.3	8.4	90		124						1,100
9-2-68	22.0	25	220	7.5	85	1.8	8.4	95		128						1,100
9-3-68	22.0	20	215	7.7	87	1.2	8.4	100		123						11,000
9-4-68	23.0	20	220	8.0	92	1.2	8.4	100		124						1,100
9-5-68	24.0	20	220	6.9	80	1.8	8.4	100		124						240
9-6-68	24.0	20	210	7.7	90	1.8	8.4	90		123		25	25			240
9-7-68	23.0	20	200	6.9	80	1.4	8.4	90		125		28	28	0.43	Trace	1,500
9-8-68	23.0	20	220	8.4	97	1.1	8.4	100		128						750
9-9-68	22.0	20	225	6.8	76	1.3	8.4	100		128						11,000
9-10-68	22.0	20	225	6.0	67	1.5	8.1	100		128						230
9-11-68	22.0	20	220	6.9	77	2.1	8.3	100		126						11,000
9-12-68	20.0	20	225	7.5	81	1.2	8.1	95		122						4,600
9-13-68	20.0	20	225	8.0	87	1.2	8.2	100		120			25			4,600
9-14-68	21.0	20	225	7.7	85	1.5	8.3	95		128		26		0.45	0	350
9-15-68	22.0	20	220	7.6	85	1.4	8.2	95		130						93

TABLE 4. (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-16-68	21.0	25	225	6.7	74	1.6	1.6	8.1	95		132					150
9-17-68	21.0	20	225	6.0	65	1.6	1.6	8.1	95		130					1,500
9-18-68	22.0	20	220	6.3	70	1.9	1.9	8.2	100		132					1,200
9-19-68	21.0	20	225	7.6	84	2.0	2.0	8.2	100		132					390
9-20-68	21.0	20	225	7.2	79	1.4	1.4	8.1	100		134	25				11,000
9-21-68	22.0	20	225	7.8	88	1.7	1.7	8.2	100		132	23		0.40	Trace	460
9-22-68	23.0	20	225	7.6	88	1.4	1.4	8.3	95		130					530
9-23-68	22.0	20	225	6.3	70	1.3	1.3	8.1	95		132					210
9-24-68	22.0	20	225	7.6	85	1.4	1.4	8.1	95		132					2,400
9-25-68	22.0	15	220	6.8	76	1.3	1.3	8.1	100		132					150
9-26-68	21.0	15	220	6.6	73	0.8	0.8	8.3	90		132					43
9-27-68	21.0	15	200	7.6	85	1.6	1.6	8.3	100		130		23			43
9-28-68	21.0	20	225	7.0	78	1.2	1.2	8.3	100		128	23		0.43	Trace	150
9-29-68	20.5	20	225	8.1	90	1.2	1.2	8.4	95		128					240
9-30-68	20.0	20	225	8.1	88	0.7	0.7	8.3	100		130					240
Sept. Avg.	21.8	20	214	7.3	82	1.4	1.4	8.3	97		128	24	25	0.43	0	2,254
Max.	24.0	25	225	8.4	90	2.1	2.1	8.4	100		134	26	28	0.45	0	11,000
Min.	20.0	15	200	6.0	65	0.7	0.7	8.1	90		120	23	23	0.40	0	43
10-1-68	20.0	20	225	8.3	91	1.3	1.3	8.3	95		128					72
10-2-68	20.0	20	230	8.0	87	0.9	0.9	8.3	100		130					140
10-3-68	20.0	20	230	7.6	83	1.2	1.2	8.3	100		130					43
10-4-68	18.0	20	240	8.2	86	1.3	1.3	8.1	100		130		25			93
10-5-68	16.0	20	210	8.3	83	1.1	1.1	8.2	100		132	25		0.43	0	15
10-6-68	16.0	20	220	8.2	82	1.4	1.4	8.1	100		134					150
10-7-68	16.0	20	215	8.4	84	1.6	1.6	8.3	100		134					43
10-8-68	16.0	20	215	8.6	86	1.1	1.1	8.3	100		132					240
10-9-68	17.0	20	215	9.1	94	1.5	1.5	8.2	100		134					150

TABLE # (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	17.0	20	225	8.8	95	1.6	8.3	95			130					11,000
10-11-68	17.0	20	225	8.5	87	1.3	8.1	100			130		25			24,000
10-12-68	17.0	20	220	9.0	93	1.2	8.3	95			130	23		0.27	0	24,000
10-13-68	17.0	20	220	8.5	87	0.6	8.1	95			134					1,100
10-14-68	18.0	20	225	9.5	100	1.2	8.1	95			134					1,100
10-15-68	19.0	20	225	8.6	93	0.8	8.3	90			130					43
10-16-68	19.0	20	220	8.8	95	0.9	8.1	95			130					24,000
10-17-68	19.0	20	225	7.7	83	0.9	8.1	90			134					290
10-18-68	19.0	20	225	8.1	86	1.1	8.1	95			130	26				11,000
10-19-68	18.0	20	225	8.1	85	1.2	8.0	95			132	23		0.30	0	390
10-20-68	18.0	20	230	8.6	90	1.5	8.3	95			134					1,500
10-21-68	17.0	20	230	8.8	90	1.0	8.1	100			132					750
10-22-68	17.0	20	230	9.2	94	1.0	8.1	100			130					75
10-23-68	16.0	20	230	9.0	90	1.5	8.3	95			132					200
10-24-68	16.0	20	230	8.9	89	1.3	8.3	100			132					460
10-25-68	15.0	15	215	9.3	92	1.6	8.3	100			132		25			43
10-26-68	14.0	15	230	9.2	89	1.8	8.3	100			134	25		0.55	0	240
10-27-68	12.0	20	210	9.4	86	1.2	8.3	95			134					200
10-28-68	12.0	20	210	9.7	89	1.1	8.1	100			132					150
10-29-68	12.0	20	225	9.8	90	1.1	8.2	100			134					43
10-30-68	12.0	20	225	10.1	94	1.3	8.1	100			134					140
10-31-68	12.0	20	225	9.8	90	1.5	8.3	100			134					2,400
Oct. Avg.	16.5	20	223	8.8	89	1.2	8.2	97			132	24	25	0.39	0	3,378
Max.	20.0	20	240	10.1	100	1.6	8.3	100			134	25	26	0.55	0	24,000
Min.	12.0	15	210	7.6	82	0.8	8.0	90			128	23	25	0.27	0	15
11-1-68	12.0	20	225	9.3	85	0.9	8.1	95			134		25			460
11-2-68	13.0	20	210	9.5	89	1.4	8.0	100			134	24		0.39	0	75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	14.0	20	225	9.6	93	1.1	8.1	100	134							43
11-4-68	14.0	20	225	10.0	107	1.2	8.4	100	132							240
11-5-68	14.0	20	225	9.6	93	0.4	8.3	100	130							4,600
11-6-68	14.0	20	225	10.0	107	1.5	8.3	100	132							2,400
11-7-68	14.0	30	225	9.6	93	0.9	8.1	100	132							2,400
11-8-68	13.0	30	225	9.2	96	1.0	8.1	95	132			25				1,100
11-9-68	9.4	50	225	9.8	85	1.5	8.1	100	146					0.72	0	1,100
11-10-68	10.0	30	225	10.0	88	1.1	8.0	100	144							240
11-11-68	9.0	30	230	10.5	90	1.4	8.0	100	140							1,500
11-12-68	10.0	30	230	10.5	93	1.2	8.0	100	132							11,000
11-13-68	9.3	60	225	11.0	95	1.2	8.0	100	128							750
11-14-68	8.0	50	230	11.2	94	0.9	8.0	100	130							240
11-15-68	8.0	30	225	11.0	93	1.4	8.0	100	142			23	26	0.90	0	1,100
11-16-68	8.0	90	220	11.0	93	1.5	8.0	100	134							1,500
11-17-68	9.0	80	210	11.1	96	1.3	8.1	100	138							11,000
11-18-68	9.0	90	220	10.6	91	1.1	8.1	100	136							4,600
11-19-68	8.5	80	215	10.8	92	1.2	7.8	100	138							240
11-20-68	10.0	80	220	11.1	98	1.1	7.8	95	136							460
11-21-68	9.0	90	225	11.6	100	1.4	7.7	90	130							460
11-22-68	10.0	70	225	11.4	101	1.3	7.8	95	128				25			93
11-23-68	10.0	60	210	11.2	99	1.1	7.8	90	128			22		0.53	0	1,100
11-24-68	11.0	30	225	11.0	99	1.0	8.0	95	130							750
11-25-68	11.0	20	225	11.0	99	1.0	8.1		130							43
11-26-68	11.0	20	225	11.0	99	1.2	8.2	90	130							460
11-27-68	10.0	30	225	11.5	102	1.3	8.2	100	120							1,100
11-28-68	9.5	30	220	11.7	103	1.1	8.2	90	130							240
11-29-68	8.5	30	220	11.2	96	1.0	8.2	95	128				24			460
11-30-68	7.4	30	225	11.8	98	1.6	7.8	90	128			24		0.70	0	4,600

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - BI404

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
Nov.	Avg.	10.5	43	223	10.6	96	1.2	8.0	94		133	23	25	0.64	0	1,796
	Max.	14.0	90	230	11.8	107	1.6	8.4	100		146	24	26	0.90	0	11,000
	Min.	7.4	20	210	9.2	85	0.9	7.7	90		120	22	24	0.34	0	43
12-1-68	7.4	30	230	11.0	92	0.9	7.8		100		138					4,600
12-2-68	6.7	50	225	12.0	98	1.1	8.0		95		130					4,600
12-3-68	7.0	20	200	11.9	97	1.0	8.2		100		130					460
12-4-68	7.0	30	215	12.0	98	1.1	8.3		100		128					1,500
12-5-68	7.0	40	210	11.2	93	1.1	8.3		100		132					460
12-6-68	7.0	30	200	12.3	100	0.9	8.2		95		132		23			240
12-7-68	6.5	70	200	11.8	97	1.5	8.0		95		130	23		1.00	0	200
12-8-68	5.0	40	195	12.2	96	0.8	8.1		100		130					460
12-9-68	6.0	40	200	12.3	98	1.3	7.8		95		130					280
12-10-68	6.0	40	210	12.5	100	1.2	7.8		100		132					1,100
12-11-68	5.5	40	200	12.2	97	1.1	8.0		100		130					2,100
12-12-68	5.0	40	210	12.0	95	1.2	8.2		100		132					1,500
12-13-68	5.0	40	200	11.0	86	1.4	7.8		95		130					1,100
12-14-68	5.1	30	200	12.0	95	1.9	8.1		90		134	19	23	0.93	0	240
12-15-68	3.2	30	200	13.0	98	1.2	8.0		95		128					93
12-16-68	2.8	40	220	13.2	98	0.2	8.1		90		128					28
12-17-68	1.8	90	225	13.0	94	0.3	8.0		90		130					1,100
12-18-68	1.8	40	215	13.5	98	0.9	8.0		100		130					1,500
12-19-68	1.8	40	225	13.0	94	1.2	8.0		95		130					2,100
12-20-68	1.8	40	215	13.5	98	1.1	7.8		100		130		23			460
12-21-68	2.5	40	200	13.4	99	1.0	8.0		95		118	23		0.80	0	29
12-22-68	2.0	40	225	13.4	97	0.9	8.0		100		126					460
12-23-68	2.2	40	200	13.4	98	0.8	8.0		100		130					93
12-24-68	2.3	30	200	13.5	99	1.0	8.0		100		128					93
12-25-68	1.8	30	200	13.6	98	1.3	8.0		100		136					240

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Vermilion - B1404																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	1.8	30	190	13.5	97	1.0	8.1	95			128					93
12-27-68	2.2	30	215	13.3	97	1.4	8.0	95			132					2,100
12-28-68	2.2	30	200	13.4	98	1.2	8.0	95			132	19	20	0.73	0	1,130
12-29-68	2.1	30	215	13.0	95	1.2	8.0	100			130					240
12-30-68	1.9	40	225	13.5	98	1.5	7.9	100			138					460
12-31-68	2.1	40	210	13.4	98	1.4	7.7	95			138					1,100
Dec. Avg.	3.9	32	209	12.7	97	0.7	8.0	97			130	21	22	0.87	0	973
Max.	7.4	90	230	13.6	100	1.5	8.3	100			138	23	23	1.00	0	4,600
Min.	1.8	20	190	11.0	86	0.2	7.7	90			118	19	20	0.73	0	28

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	19.9	8	259	--	--	1.1	8.8	89			124	--	24	--	--	593
7-2-68	20.8	5	258	--	--	1.4	8.8	89			124	--	--	--	0.01	17
7-3-68	20.9	10	257	--	--	1.9	8.9	90			125	--	--	--	--	1,230
7-5-68	20.0	4	--	7.2	77	1.6	8.7	89			126	27	24	0.1	--	223
7-8-68	19.9	3	259	7.1	76	1.5	8.5	91			124	--	--	--	--	700
7-9-68	20.5	3	252	7.4	80	1.8	8.7	90			124	--	25	--	--	300
7-10-68	--	5	--	--	--	1.6	8.7	--			--	--	--	--	--	700
7-11-68	19.9	5	251	--	--	2.2	8.6	90			125	25	25	0.2	0.01	200
7-12-68	20.0	5	255	5.8	63	2.2	8.5	91			126	--	26	--	--	200
7-15-68	22.1	4	270	6.9	77	1.9	8.3	91			124	--	--	--	--	200
7-16-68	23.4	4	271	7.9	92	1.9	8.8	90			123	23	26	0.1	0.01	400
7-17-68	23.3	4	269	7.8	90	2.1	8.7	91			123	--	25	--	--	100
7-18-68	23.3	6	278	7.1	82	1.8	8.3	--			--	--	--	--	--	100
7-19-68	23.4	20	270	7.1	82	1.2	8.8	90			125	--	24	--	--	300
7-22-68	23.9	10	281	--	--	1.4	8.7	90			126	--	26	--	--	207
7-23-68	23.8	6	--	--	--	1.2	8.6	--			--	--	--	--	--	197
7-24-68	24.0	5	--	--	--	1.6	8.4	92			--	--	--	--	--	93
7-25-68	24.0	5	--	--	--	1.6	8.6	--			--	--	--	--	--	211
7-26-68	23.6	4	291	6.9	80	1.7	8.5	90			126	21	25	0.1	0.02	72
7-29-68	23.4	10	288	--	--	1.9	8.8	92			--	--	--	--	--	94
7-30-68	23.5	5	--	--	--	2.0	8.8	--			--	--	--	--	--	40
7-31-68	23.1	5	277	7.5	86	1.7	8.7	91			123	24	23	0.1	0.00	40
July Avg.	22.2	6	268	7.2	80	1.7	8.6	90			125	24	25	0.1	0.01	283
Max.	24.0	20	291	7.9	92	2.2	8.9	92			126	27	26	0.2	0.02	1,230
Min.	19.9	3	251	5.8	63	1.1	8.3	89			123	21	23	0.1	0.00	17
8-1-68	23.2	4	--	--	--	2.2	8.8	--			--	--	--	--	--	40
8-2-68	--	3	--	--	--	2.3	8.5	--			--	--	--	--	--	51

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-5-68	23.8	2		278	7.9	92	2.1	8.7	85			117					51
8-6-68	24.2	3		271	--	--	2.0	8.7	--								72
8-7-68	24.9	3		292	7.1	85	1.3	8.7	88			124					189
8-8-68	25.5	2		296	6.6	80	1.2	8.8	90			113	22	27	0.05		158
8-9-68	25.1	2		295	6.8	81	1.8	8.6	88			124					93
8-12-68	24.0	3		280	6.5	75	2.0	8.4	88			126					230
8-13-68	23.9	3		280	6.7	78	2.2	8.5	92			128					9
8-14-68	24.2	2		290	6.6	77	2.2	8.7	90			126					9
8-15-68	24.1	3		280	6.5	76	1.9	8.7	90			130					150
8-16-68		4					1.9	8.7									367
8-19-68		5	5				3.6	8.5									40
8-20-68		8	1				2.7	8.8									100
8-21-68		7	3				2.6	8.7									122
8-22-68		7	3				2.4	8.8									77
8-27-68		20					3.4	8.5									100
8-30-68	22.9	3					2.3	8.6	91			123		24			127
Aug. Avg.	24.2	5	3	286	6.9	81	2.3	8.7	89			123	22	26	0.05		110
Max.	25.5	20	5	296	7.9	92	3.4	8.8	92			130	22	27	0.05		367
Min.	23.2	2	1	271	6.5	75	1.2	8.4	85			117	22	24	0.05		9
9-2-68		6					1.9	8.6									--
9-3-68		4					1.8	8.7									131
9-4-68		4					1.8	8.6									37
9-5-68		4					1.8	8.7									--
9-6-68		15					1.7	8.8									--
9-9-68		4					1.5	8.8									20
9-10-68		4					1.6	8.7									60
9-11-68		3					2.5	8.6									40

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-12-68		30				2.4	8.5		86		124		22			890
9-13-68	20.0	9				1.8	8.6									--
9-16-68		5				1.6	8.6									30
9-17-68	20.9	3	264	7.4	82	1.8	8.4		92		130		19			57
9-18-68	20.9	2	270	7.2	80	1.3	8.4		90		134		21			50
9-19-68	20.8	3	261	7.7	85	1.6	8.4		92		134		24			16
9-20-68	20.1	3	263	7.8	85	2.0	8.3		94		134		26			45
9-23-68		2				1.7	8.4									40
9-24-68		4				1.8	8.4									25
9-25-68		2				1.5	8.4									40
9-26-68		4				2.3	8.4									15
9-27-68	20.0	3				1.5	8.3		94		131		29			--
9-30-68		5				1.6	8.3									92
Sept. Avg.	20.5	6	265	7.5	83	1.8	8.5		91		131		24			99
Max.	20.9	30	270	7.8	85	2.4	8.8		94		134		26			890
Min.	20.0	2	261	7.2	80	1.3	8.3		86		124		19			15
10-1-68		2				1.6	8.3									23
10-2-68		2				1.6	8.3									15
10-3-68		20				1.5	8.4									280
10-4-68		45				2.0	8.2									
10-7-68	16.9	7	250	8.1	83	0.8	8.3		94		128		25			128
10-8-68	16.9	2	245	8.8	90	1.0	8.3		92		140		25			40
10-9-68	16.4	3	241	8.4	85	1.1	8.4		92		132		26			24
10-10-68		7				1.0	8.4									
10-11-68		2				1.2	8.5									
10-14-68	16.2	1	249	8.8	89	1.6	8.6		96		138		25			56
10-15-68	16.2	1	259	9.1	93	1.1	8.6		92		136		24			32

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-16-68		3				1.1	8.5									9
10-17-68	16.2	1	250	8.8	89	0.9	8.5		96							10
10-18-68	16.5	2	270	8.6	87	1.2	8.5		90		136		26			
10-21-68		8				1.8	8.5									94
10-22-68	15.0	4	240	9.0	88	1.7	8.2		96		137		25			38
10-23-68		10				1.3	8.4									80
10-24-68	14.0	3	235	9.0	87	1.8	8.5		98		138		24			100
10-25-68		6				1.1	8.4									45
10-28-68	13.1	5	223	9.2	86	0.8	8.3		96		136		25			137
10-29-68	12.0	40	250	9.5	87	1.5	8.3		92		133		26			2,567
10-30-68		10				1.0	8.3									363
10-31-68		5				1.1	8.4									65
Oct. Avg.	15.4	8	247	8.8	88	1.3	8.4		94		135		25			216
Max.	16.9	45	250	9.5	93	2.0	8.6		98		140		26			2,567
Min.	12.0	1	223	8.1	83	0.8	8.2		90		128		24			9
11-1-68	11.0	3	220	9.4	87	0.9	8.6		90		136		24			10
11-4-68	11.1	2	229	10.0	92	1.0	8.5		88		140		25			56
11-5-68	11.1	2	223	10.4	95	1.4	8.7		92		142		26			22
11-6-68	11.2	4	221	10.1	95	1.4	8.3		98		137		26			100
11-7-68	11.2	10	244	9.6	89	2.0	8.3		96		138		26			172
11-8-68		25				2.1	8.4									1,683
11-11-68	8.3	10				1.4	8.3									10
11-12-68	9.8	30	230	9.8	86	1.5	8.3		92		135		24			69
11-13-68	9.0	60	242	10.2	87	1.5	8.4				132		22			94
11-14-68		25				1.6	8.4									140
11-15-68	7.3	30	205	10.2	84	1.4	8.2		92		140		23			42

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - BI606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-18-68	8.3	30	210	10.7	87	1.7	1.7	8.3	94		124		20			20
11-19-68	8.0	35	220	10.4	85	1.5	1.5	8.2	92		136		22			645
11-20-68	7.8	70	182	11.1	94	2.0	2.0	8.3	96		139		20			193
11-21-68	6.2	25	189	11.0	89	1.3	1.3	8.2	94		129		20			65
11-22-68	6.0	25		10.4	83	1.4	1.4	8.0								65
11-25-68	6.2	15	195	11.7	94	1.1	1.1	8.4	90		132		23			844
11-26-68		8				1.2	1.2	8.1								337
11-27-68		15				1.1	1.1	8.2								277
11-29-68	6.0	20	191	11.9	95	1.4	1.4	8.1	92		121		26			4,875
Nov. Avg.	9.2	20	214	10.5	89	1.4	1.4	8.3	93		134		23			486
Max.	11.2	70	244	11.7	95	2.0	2.0	8.7	98		142		26			4,875
Min.	6.0	2	182	9.4	83	0.9	0.9	8.0	88		121		20			10
12-2-68		9				1.7	1.7	8.2								277
12-3-68	6.3	6	200	11.5	93	1.6	1.6	8.3	92		120		25			357
12-4-68		20				1.3	1.3	8.3								410
12-5-68	6.0	35	185	11.5	92	1.9	1.9	8.2	92		116		22			207
12-6-68		60				1.6	1.6	8.2								10
12-9-68		35				1.5	1.5	8.3								543
12-10-68	3.0	20	181	12.0	89	1.3	1.3	8.3	90		111		22			85
12-11-68	3.0	10	180	12.3	91	1.2	1.2	8.2	94		123		23			92
12-12-68	2.9	10	177	12.2	90	1.1	1.1	8.3	92		120		22			7
12-13-68		15				1.0	1.0	8.3								155
12-16-68		80				0.9	0.9	8.2								25
12-17-68		45				0.8	0.8	8.2								25
12-18-68	1.1	15	165	12.0	84	0.9	0.9	8.3	90		125		21			33
12-19-68		15				0.9	0.9	8.3								17
12-20-68	1.1	45	168	12.6	89	0.8	0.8	8.2	92		127		22			24

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Elyria - B1606

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-23-68	1.9	30	163	13.0	94	0.7	0.7	8.2	90		120		21			57
12-26-68		8				0.7	0.7	8.2								1,520
12-27-68		5				0.8	0.8	8.2								65
12-30-68	1.1	60	153	13.6	96	1.3	1.3	8.3	92		120		20			1,077
12-31-68	1.1	25	168	13.8	97	1.1	1.1	8.2	90		124		22			3,800
Dec. Avg.	2.7	25	175	12.4	91	1.1	1.1	8.2	91		121		22			439
Max.	6.3	60	200	13.8	97	1.7	1.7	8.3	94		127		25			3,800
Min.	1.1	5	153	11.5	84	0.7	0.7	8.2	90		111		20			7

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	21.4	10	1	269	8.6	96	1.5	8.5	93			124					1,200	
7-2-68	22.0	8	0	272	8.6	98	1.1	8.5	90			126					670	144
7-3-68	21.4	10	1	270	8.6	96	1.1	8.5	88			120	24	23	0.16	0.0	410	
7-4-68	21.2	7	1	--	--	--	1.3	8.6	91									
7-5-68	21.1	4	1	266	8.2	90	1.5	8.5	88		122						670	
7-6-68	21.0	3	1	268	7.9	87	1.3	8.5	91								310	
7-7-68	20.5	3	1	--	--	--	1.4	8.2	91									
7-8-68	21.0	4	1	272	7.3	80	1.5	8.3	91			126					1,400	
7-9-68	21.7	3	1	270	7.5	84	1.3	8.4	90		178	120					4,100	132
7-10-68	22.3	4	1	272	6.8	76	1.1	8.4	91		185	122					4,700	
7-11-68	21.3	4	1	272	4.5	50	1.7	8.0	91		186	122	23	25	0.06	0.0	2,400	
7-12-68	21.1	3	1	272	5.8	64	1.0	8.1	92		188	122					2,200	
7-13-68	20.7	3	1	269	6.1	66	1.6	8.0	91								1,300	
7-14-68	21.0	3	1	--	--	--	1.8	7.9	91									
7-15-68	23.5	3	1	281	7.4	85	1.5	8.2	91		196	122					500	
7-16-68	24.3	3	1	284	7.6	90	1.2	8.3	89		195	122					780	60
7-17-68	24.3	2	1	288	7.7	91	1.2	8.5	91		186						610	
7-18-68	24.5	3	1	290	7.3	85	1.3	8.3	91		184	120	24	25	0.08	0.0	970	
7-19-68	24.5	9	1	284	6.8	86	1.6	8.3	89		150	122					1,100	
7-20-68	24.2	3	1	285	6.6	77	1.5	8.3	90								330	
7-21-68	23.8	3	1	--	--	--	1.8	8.3	91									
7-22-68	24.3	3	1	292	7.0	83	1.4	8.5	90		172	120					480	
7-23-68	24.3	3	1	290	7.0	83	1.9	8.4	89		185	122	25	25	0.10	0.0	470	108
7-24-68	24.5	3	1	292	7.2	85	1.7	8.4	91		158	122					300	
7-25-68	24.5	3	1	291	6.7	79	1.3	8.4	89		191	124					300	
7-26-68	24.3	3	1	292	5.7	67	1.6	8.3	90		195	124					310	
7-27-68	24.2	2	1	289	7.1	84	1.3	8.5	91								300	
7-28-68	24.4	3	1	--	--	--	1.4	8.6	89									
7-29-68	24.2	6	1	290	7.6	90	1.3	8.6	90		198	122					450	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-30-68	24.2	4	2	287	7.8	93	1.6	8.6	88	88	185	124	27	28	0.08	0.0	110	236
7-31-68	24.1	3	1	283	7.1	84	1.3	8.5	87	87	186	120					700	
July Avg.	22.9	4	1	280	7.2	83	1.4	8.4	90	90	180	122	25	25	0.10	0	1,041	136
Max.	24.5	10	2	292	8.6	98	1.8	8.6	92	92	198	126	27	28	0.16	0	4,700	144
Min.	20.5	2	0	266	4.5	50	1.0	7.9	87	87	122	120	23	23	0.06	0	110	60
8-1-68	24.3	3	2	286	7.0	83	1.2	8.7	90	90	160	120					230	316
8-2-68	24.2	2	1	--	7.4	87	1.0	8.6	86	86		118					700	
8-3-68	24.0	2	1	--	6.9	80	1.6	8.6	92	92		--					175	
8-4-68	24.7	2	1	--	--	--	1.5	8.5	87	87		--					--	
8-5-68	24.7	3	1	276	8.0	95	1.2	8.6	83	83		116					345	
8-6-68	25.2	3	1	--	8.1	97	1.2	8.6	81	81		118					200	
8-7-68	25.8	2	1	280	7.9	95	1.3	8.7	83	83		114	23	25	0.10	0	1,000	116
8-8-68	25.9	3	1	282	7.8	95	1.4	8.7	86	86		118					850	
8-9-68	26.2	2	1	--	6.9	83	1.5	8.7	89	89		120					170	
8-10-68	26.2	1	2	--	--	--	1.7	8.6	88	88		--					390	
8-11-68	--	--	--	--	--	--	2.1	--	--	--		--					--	
8-12-68	24.6	3	1	--	5.9	70	2.0	8.4	89	89		120					190	
8-13-68	24.4	3	1	298	5.8	68	2.2	8.5	91	91		124	25	27	0.06	0	390	148
8-14-68	25.0	2	1	298	7.0	83	1.8	8.5	90	90		122					170	
8-15-68	25.0	2	1	292	6.8	80	1.4	8.5	90	90		124					500	
8-16-68	24.8	2	2	--	6.7	79	1.5	8.5	91	91		124					250	132
8-17-68	25.4	2	4	--	6.5	78	2.3	8.5	91	91		126					300	
8-18-68	25.3	3	3	--	--	--	4.4	8.5	90	90		--					--	212
8-19-68	25.4	4	3	299	6.8	81	3.5	8.6	93	93		124					160	
8-20-68	26.0	4	2	300	7.2	87	3.0	8.6	94	94		122	25	25	0.11	0	170	428
8-21-68	26.3	4	2	300	7.3	89	2.7	8.6	91	91		124					450	
8-22-68	26.8	6	3	298	7.5	92	2.2	8.8	90	90		120					320	1,460

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
8-23-68	27.4	7	3	295	8.2	102	2.8	8.9	87			116					88	1,076
8-24-68	27.6	5	2	--	--	--	4.1	8.8	90			122					100	
8-25-68	27.7	15	3	--	--	--	4.1	8.7	88			--					--	
8-26-68	25.7	35	1	295	6.7	80	2.4	8.7	89			112					280	1,108
8-27-68	25.0	15	1	291	6.6	78	1.8	8.6	92			120	24	26	0.12	0	200	596
8-28-68	24.6	6	1	296	6.7	78	1.9	8.5	91			124					170	188
8-29-68	24.2	4	1	297	6.8	80	2.8	8.5	90			124					130	188
8-30-68	23.8	4	1	294	7.0	81	1.7	8.6	86			124					87	
8-31-68	23.4	4	2	--	7.2	84	1.5	8.6	89			--					170	
Aug. Avg.	25.3	5	2	293	7.1	81	2.1	8.6	89			160	24	26	0.10	0	303	497
Max.	27.7	35	4	300	8.1	102	4.4	8.9	94			160	25	27	0.12	0	1,000	1,460
Min.	23.4	1	1	276	5.8	68	1.0	8.4	81			160	23	25	0.06	0	87	116
9-1-68	23.2	4	1	295	--	--	1.2	8.5	91			126						
9-2-68	22.6	8	2	--	--	--	1.1	8.6	92			126						
9-3-68	22.6	5	1	289	8.7	100	1.4	8.7	88			128					290	588
9-4-68	22.8	4	1	285	9.8	112	0.8	8.9	93			126					170	300
9-5-68	23.1	4	1	291	8.6	100	1.0	8.8	94			130	24	28	0.10	0	75	244
9-6-68	23.0	9	1	285	8.6	99	1.4	8.8	92			128					140	
9-7-68	22.3	15	1	--	7.8	89	1.0	8.6	94			--					140	
9-8-68	22.0	5	1	--	--	--	1.5	8.6	94			--					--	
9-9-68	22.2	5	1	290	7.8	89	1.2	8.7	94			132					--	
9-10-68	22.0	4	1	295	7.8	88	1.4	8.7	94			134	24	29	0.10	0	100	424
9-11-68	21.7	10	1	290	7.8	88	1.3	8.7	92			130					420	
9-12-68	20.7	15	1	290	7.6	83	1.2	8.6	93			128					2,100	220
9-13-68	20.9	15	1	280	8.1	90	1.1	8.7	94			128					480	
9-14-68	21.3	4	2	--	8.5	95	1.2	8.7	93			--					270	
9-15-68	21.3	3	1	--	--	--	1.3	8.6	94			--					--	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
9-16-68	21.3	4	1	290	7.9	88	1.2	8.6	95	95	130	130					130	296
9-17-68	21.5	5	1	290	7.7	85	1.0	8.6	95	95	130	130					80	288
9-18-68	21.1	6	1	295	7.2	80	1.3	8.4	97	232	232	132	25	29	0.10	0	150	
9-19-68	21.1	5	1	268	7.3	81	1.1	8.4	97	203	203	132					420	
9-20-68	21.0	5	1	291	7.4	82	1.6	8.4	96	168	168	132					230	
9-21-68	21.2	4	1	260	7.8	87	1.3	8.6	96	96	134	134					130	
9-22-68	21.2	2	1	--	--	--	1.3	8.5	97	97	--	--					--	
9-23-68	21.3	3	1	291	7.4	83	1.3	8.6	98	195	195	134					150	276
9-24-68	22.0	2	1	297	8.2	93	0.8	8.6	97	198	198	130	26	27	0.08	0	63	248
9-25-68	22.0	3	1	290	8.2	93	0.7	8.5	97	195	195	136					120	
9-26-68	21.3	3	1	289	7.8	87	0.7	8.5	96	203	203	134					95	
9-27-68	21.2	3	1	288	7.9	88	0.7	8.6	93	191	191	136					140	
9-28-68	21.0	3	1	290	7.7	85	0.7	8.4	97	132	132	132					130	
9-29-68	20.5	3	1	--	--	--	1.0	8.5	96	96	--	--					--	
9-30-68	20.2	5	1	280	8.0	88	0.7	8.5	96	138	138	138					97	
Sept. Avg.	21.7	5	1	287	8.0	90	1.1	8.6	95	198	198	131	25	28	0.09	0	266	320
Max.	23.2	15	2	297	9.8	112	1.6	8.9	98	232	232	138	26	29	0.10	0	2,100	588
Min.	20.2	2	1	260	7.2	80	0.7	8.4	88	168	168	126	24	27	0.08	0	63	220
10-1-68	20.4	3	1	290	8.7	96	0.9	8.4	97	220	220	136	24	27	0.08	0	220	164
10-2-68	20.3	3	1	282	8.7	96	0.8	8.6	97	191	191						140	
10-3-68	20.2	45	1				0.8	8.4	97								100	
10-4-68	19.0	80			7.8	83	1.7	8.3	99								720	
10-5-68	17.2	25	1	286	9.1	94	0.8	8.2	93			132	29				410	
10-6-68		5	1				0.8	8.3	95									
10-7-68	17.4	15	0	268	8.6	89	1.3	8.3	98			130					290	
10-8-68	17.1	4	0	260	9.0	93	0.6	8.4	96			126	24	25	0.07	0	150	356
10-9-68	16.9	3	1	262	9.7	99	1.0	8.4	94			128					100	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
10-10-68	17.2	7	1	261	9.6	98	0.5	8.5	94			128					130	
10-11-68	17.0	3	1		9.2	95	0.7	8.6	98			130					53	200
10-12-68							0.6											
10-13-68							0.6											
10-14-68	17.4	3	1	268	9.4	97	0.7	8.5	95			128					63	196
10-15-68	17.7	2	1	269	9.8	102	0.5	8.6	96		160	128	26	27	0.06	0	28	176
10-16-68	18.0	2	1	270	9.5	100	0.5	8.6	95		177	128					16	228
10-17-68	18.4	2	1	271	9.5	101	0.5	8.6	95		201	128					27	256
10-18-68	18.8	3	0	280	9.6	102	0.6	8.6	98		200	132					27	232
10-19-68	18.1	4	1		9.2	96	0.5	8.6	96			132					17	
10-20-68	17.7	1	1				0.7	8.6	95									
10-21-68	17.2	6	0	270	9.4	97	0.7	8.7	94		194	138					68	276
10-22-68	17.1	4	1	269	9.2	95	0.7	8.6	98		201	132	24	26	0.06	0	68	328
10-23-68	16.7	10	0	269	9.3	96	0.7	8.6	98		198	130					72	388
10-24-68	15.9	6	0	262	9.2	92	0.4	8.6	96		179	130					58	140
10-25-68	15.4	10	1	260	9.2	91	0.5	8.6	95		196	132					130	332
10-26-68	13.9	35	1	249	9.4	90	0.7	8.5	96		132						250	
10-27-68	13.8	10	1				0.8	8.4	94									
10-28-68	13.6	20	1	250	9.7	93	0.8	8.4	99		196	136					580	188
10-29-68	12.6	55	1	250	9.9	93	0.8	8.4	99		205	132	22	29	0.18	0	1,300	344
10-30-68	11.2	30	1	235	9.5	86	0.6	8.4	99		188						550	
10-31-68	11.9	7	1	240	10.3	95	0.5	8.3	93		196	132					110	128
Oct. Avg.	16.7	15	1	252	9.7	95	0.7	8.5	96		190	131	24	27	0.09	0	218	246
Max.	20.4	55	1	290	10.3	102	1.7	8.7	99		220	138	26	29	0.18	0	1,300	388
Min.	11.2	1	0	235	7.8	83	0.4	8.2	93		132	126	22	25	0.06	0	16	128
11-1-68	12.5	5	1	245	9.9	91	0.5	8.3	97		202	132					470	144
11-2-68	12.7	4	1		9.9	91	0.4	8.4	98			132					140	
11-3-68	12.9	4	1				0.7	8.4	93									

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - B1605

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
11-4-68	12.5	4	0	242	10.4	96	0.6	8.3	98	186	130						770	120
11-5-68	12.6	4	0				1.4	8.3	99									
11-6-68	12.9	4	1	251	9.8	91	1.5	8.3	98	194	134						150	120
11-7-68	12.9	15	2	259	9.6	85	1.7	8.2	97	199	132		27	29	0.21	0	2,200	108
11-8-68	12.2	40	2	249	9.8	90	1.1	8.2	98	196	134						1,700	300
11-9-68	11.2	20	1	232	10.0	90	1.3	8.3	94		132						1,320	120
11-10-68	11.0	20	1				0.8	8.2	94									
11-11-68	10.8	15	1	231	9.8	88	1.7	8.1	95	185	136						320	116
11-12-68	10.8	60	1	232	9.3	83	1.6	8.2	96	185	132						150	180
11-13-68	9.4	90	2	230	10.1	87	1.0	8.2	98	160	134		26	27	0.88	0	310	292
11-14-68	9.1	50	1	229	10.7	93	0.7	8.1	100	190	136						110	140
11-15-68	9.1	40	0	230	10.6	92	1.0	8.1	98	196	134						560	124
11-16-68	9.2	40	0		10.7	93	1.3	8.1	97		132						390	
11-17-68	9.0	30	0				1.1	8.2	97									
11-18-68	9.0	90	0	215	10.6	91	1.4	8.1	93	190	118						260	200
11-19-68	8.2	55	1	200	10.9	92	1.3	8.2	92	166	126						89	148
11-20-68	6.9	100	1	200	11.3	93	1.3	8.2	93	173	122		21	20	1.38	0	77	160
11-21-68	6.7	45	1	191	11.7	95	1.1	8.2	92	173	124						330	236
11-22-68	7.0	40	0	199	11.6	96	1.1	8.2	89	176	124						360	252
11-23-68	6.8	20	1	199	10.6	82	0.9	8.2	91		122						85	
11-24-68	7.8	15	1				0.7	8.2	87									
11-25-68	7.6	25	1	199	11.6	96	1.0	8.2	90	166	118						90	312
11-26-68	7.5	9	1	201	11.3	93	0.6	8.2	89	165	120		22	22		0	30	160
11-27-68	8.1	20	1	201	11.4	95	0.9	8.2	89	177	120						1,400	232
11-28-68	7.9	7	0				0.7	8.2	89									
11-29-68	8.0	15	0		11.2	94	0.7	8.3	89		114						1,400	
11-30-68	8.4	15	0		11.8	100	0.7	8.2	87		116						1,600	
Nov. Avg.	9.7	30	1	222	9.6	92	1.0	8.2	94	182	127		24			0	596	182
Max.	12.9	100	2	259	11.8	100	1.7	8.4	100	202	136		27			0	2,200	312
Min.	6.8	4	0	191	9.1	83	0.4	8.1	87	160	114		21		0.12	0	30	108

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Lorain - BI605																		
Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-1-68	7.2	15	1					0.7	8.2	88		194	118					220
12-2-68	7.3	10	1	209	11.9	99		0.5	8.2	87		198	122	25	0.15	0	1,200	264
12-3-68	7.1	9	1	199	11.7	97		0.5	8.2	88		182	122				900	200
12-4-68	7.3	30	1	200	12.0	99		0.5	8.3	90		187	122				1,600	256
12-5-68	6.6	80	2	202	11.6	94		0.7	8.2	90		167	122				490	368
12-6-68	5.3	70	2	187	11.8	93		0.6	8.2	91		118					390	
12-7-68	5.1	50	1		12.0	95		0.6	8.2	85								
12-8-68	4.2	30	1					0.3	8.2	88								
12-9-68	3.5	35	1	185	12.9	97		0.6	8.2	87	155	124		24	0.35	0	1,800	384
12-10-68	3.9	25	1	190	12.2	93		1.1	8.1	88	190	128	32				700	300
12-11-68	3.7	25	1	192	11.1	84		1.4	8.1	88	180	128					400	320
12-12-68	3.4	15	1	180	12.8	96		1.0	8.1	87	159	128					1,300	340
12-13-68	4.2	30	1	175	12.3	94		0.4	8.2	89	189	118					630	404
12-14-68	4.5	25	1		12.5	96		0.3	8.2	90		116					500	
12-15-68	3.5	50	1					0.6	8.1	84								
12-16-68	2.8	80	1	162	13.4	99		1.0	8.0	87	149	118					90	660
12-17-68	2.2	50	1	168	13.4	99		0.2	8.1	87	152	126	27	22	0.50	0	110	160
12-18-68	2.2	25	1	171	13.6	100		0.4	8.1	92	181	120					220	288
12-19-68	2.2	15	1	178	13.3	99		0.3	8.0	89	174	122					90	192
12-20-68	2.6	60	1	175	13.8	101		0.2	8.2	91	181	118					340	332
12-21-68	2.5	45	1		13.7	101		0.3	8.3	91		120						410
12-22-68	2.5	15	1					0.4	8.2	87								
12-23-68	2.7	55	1	172	13.2	98		0.5	8.2	91	146	116					170	376
12-24-68	2.3	60	1	169	13.6	99		0.5	8.2	86	164	118	20	21	0.70	0	320	276
12-25-68	1.4	20	1					0.6	8.1	93								
12-26-68	1.9	10	1	171	13.6	98		1.2	8.1	89	166	116					93	144
12-27-68	2.1	7	1	172	14.2	103		0.7	8.1	87	175	122					140	112
12-28-68	2.2	6	1		13.9	101		0.5	8.1	86		120					250	

Lorain - B1605

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TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	18.8	20		8.8	94	2.2	7.8	90	233	130	23					150
7-2-68	20.0	15		9.0	98	2.6	7.9	90	201	130	22					200
7-4-68	19.0	15		6.8	73	2.0	7.7	92	180	130	22					310
7-5-68	19.0	10		6.5	69	2.4	7.7	92	190	132	23					60
7-6-68	18.5	10		8.0	90	2.6	7.7	94	193	124	21					180
7-7-68	19.0	15		7.2	77	2.8	7.7	90	195	130	22					180
7-8-68	18.0	10		7.0	74	2.2	7.7	90	259	130	22					30
7-9-68	19.5	15		6.9	74	2.3	7.7	92	226	130	21					60
7-10-68	18.0	10		7.5	78	2.3	7.8	94	189	126	21					240
7-11-68	18.0	25		7.6	80	2.2	7.8	92	229	128	22					30
7-12-68	18.5	20		6.4	68	2.3	7.7	94	159	128	22					20
7-13-68	19.0	20		6.8	73	2.5	7.6	94	147	130	22					40
7-14-68	19.0	10		6.9	74	2.5	7.8	92	162	130	22					70
7-15-68	19.0	15		6.1	65	2.2	7.5	96	255	114	22					120
7-16-68	19.5	20		9.7	105	2.8	8.2	96	250	118	22					1,280
7-17-68	19.0	25		9.5	101	2.3	7.9	94	252	122	22					1,500
7-18-68	22.0	15		7.2	81	2.7	7.7	96	222	130	22					330
7-19-68	22.5	15		6.7	76	2.7	7.9	90	208	132	22					360
7-20-68	22.2	10		6.2	71	2.9	7.9	86	226	136	21					1,350
7-21-58	21.1	10		5.8	65	2.7	7.7	90	189	130	22					140
7-22-68	20.0	20		6.7	73	2.7	7.3	96	224	140	22					230
7-23-68	23.3	20		7.4	86	2.9	7.9	92	215	140	22					1,770
7-24-68	21.6	15		5.8	65	3.1	7.7	96	218	134	21					1,500
7-25-68	22.5	20		6.7	76	2.4	7.7	90	156	136	24					100
7-26-68	22.2	15		7.3	84	2.3	7.9	88	141	134	24					260
7-27-68	23.3	20		7.2	84	2.1	7.9	88	--	134	24					140
7-28-68	23.3	20		7.9	93	2.5	8.0	86	188	134	23					650
7-29-68	22.3	20		7.7	91	2.4	8.0	88	196	134	23					800
7-30-68	22.2	15		7.8	90	--	8.0	88	241	132	24					630
7-31-68	22.0	20		7.7	88	--	8.0	88	212	134	23					350

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
July Avg.	20.4	15		7.3	81	2.5	7.8	91	205	130						
Max.	23.3	25		9.7	105	3.1	8.0	96	259	140						436
Min.	18.0	10		5.8	65	2.0	7.3	86	141	114						1,770
																20
8-1-68	22.5	20		7.8	89	1.8	7.8	90	193	132			23			100
8-2-68	22.0	15		7.7	87	2.4	7.7	92	172	136			22			50
8-3-68	22.7	10		7.7	88	2.0	8.0	90	163	130			21			50
8-4-68	22.7	15		--	--	2.0	7.9	92	--	128			21			60
8-5-68	22.7	15		--	--	1.8	7.8	90	--	130			21			60
8-6-68	23.8	30		--	--	2.0	8.0	92	--	128			22			10
8-7-68	22.2	20		7.7	88	2.0	8.1	92	164	132			21			290
8-8-68	24.3	15		6.6	78	2.5	7.9	86	215	134			22			230
8-9-68	24.4	10		7.2	85	2.7	8.1	88	200	132			22			640
8-10-68	24.4	15		7.2	85	2.5	8.1	90	296	124			21			260
8-11-68	22.7	15		6.6	76	2.6	8.1	88	154	126			23			130
8-12-68	22.2	10		6.6	75	2.2	8.1	90	170	124			23			330
8-13-68	22.7	10		5.8	66	2.2	8.1	88	180	126			25			100
8-14-68	24.3	20		6.8	81	--	8.0	92	175	128			23			15
8-15-68	22.5	20		6.2	71	--	8.1	90	188	130			25			10
8-16-68	23.5	20		5.4	63	--	7.7	94	284	132			24			15
8-17-68	23.0	20		6.4	74	2.8	8.0	98	--	128			24			70
8-18-68	23.5	20		6.2	71	--	7.9	92	267	128			24			40
8-19-68	22.5	15		6.0	69	--	8.0	94	254	132			23			15
8-20-68	24.0	20		7.2	85	--	7.9	94	152	130			23			30
8-21-68	23.5	20		7.0	81	--	7.9	92	184	128			24			40
8-22-68	24.0	10		6.9	81	2.9	8.0	90	177	130			25			55
8-23-68	26.1	20		7.1	87	4.0	8.1	88	173	128			23			90
8-24-68	26.6	15		7.7	96	4.5	8.1	90	178	122			23			90
8-25-68	26.1	15		7.1	87	4.3	7.9	86	165	124			24			430

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - CI801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-26-68	22.7	20		7.2	82	4.4	8.1	88	294	122	122	24	24			540
8-27-68	22.2	30		6.7	76	3.9	7.9	86	165	130	130	25	25			370
8-28-68	22.2	20		7.1	80	--	7.9	84	164	128	128	24	24			290
8-29-68	24.0	15		6.4	76	--	7.9	90	183	134	134	26	26			15
8-30-68	24.0	15		6.7	78	--	8.0	88	181	130	130	25	25			35
8-31-68	23.0	15		7.4	86	--	8.0	88	193	130	130	25	25			50
Aug. Avg.	23.5	15		6.9	80	2.8	8.0	90	196	129	129	23	23			145
Max.	26.6	30		7.8	89	4.5	8.1	98	296	136	136	26	26			640
Min.	22.0	10		5.4	63	1.8	7.7	84	152	122	122	21	21			10
9-1-68	23.0	15		7.2	83	3.8	7.9	94	191	130	130	25	25			80
9-2-68	21.0	15		5.8	64	3.7	7.8	96	193	128	128	26	26			50
9-3-68	21.0	10		7.0	78	3.8	8.0	98	196	132	132	26	26			40
9-5-68	21.0	30		5.3	59	3.5	7.6	104	202	136	136	27	27			110
9-6-68	21.0	15		5.7	63	3.7	8.0	100	194	134	134	26	26			780
9-7-68	21.0	20		7.5	84	3.2	8.0	100	164	136	136	25	25			90
9-8-68	21.0	20		6.9	77	2.1	8.0	100	179	134	134	26	26			40
9-9-68	20.0	20		6.2	67	3.3	7.7	98	165	132	132	26	26			60
9-10-68	19.0	10		3.2	34	3.3	7.4	106	--	134	134	26	26			130
9-11-68	19.0	8		7.5	80	2.7	7.9	104	215	134	134	26	26			190
9-12-68	19.0	20		7.8	84	2.8	7.9	102	189	132	132	25	25			80
9-13-68	20.0	6		8.2	90	2.6	7.9	104	185	134	134	26	26			150
9-14-68	20.0	20		8.7	95	2.4	8.0	102	192	134	134	26	26			40
9-15-68	20.0	10		8.1	89	2.5	7.9	104	110	136	136	27	27			140
9-16-68	19.0	15		7.4	80	2.6	7.7	102	--	134	134	26	26			20
9-17-68	19.0	20		6.2	66	3.0	7.8	102	--	134	134	26	26			70
9-18-68	19.0	15		6.8	73	2.9	7.8	104	--	136	136	26	26			30
9-19-68	18.3	15		5.9	62	3.2	7.8	102	--	136	136	26	26			210

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801													
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	C. T. Fe T. Mn T. Coli.
9-20-68	18.3	8		2.8	30	3.2	7.4	104	189	138	26	60	
9-21-68	18.3	7		7.0	74	2.5	7.6	102	188	136	26	470	
9-22-68	19.4	8		6.3	68	2.4	7.6	100	181	138	26	60	
9-23-68	20.0	10		8.2	90	2.4	7.9	100	163	136	27	260	
9-24-68	20.0	9		8.0	87	2.1	8.0	100	187	138	27	340	
9-25-68	20.0	15		8.5	93	2.3	8.0	102	196	140	27	3,600	
9-26-68	19.5	15		8.1	87	2.7	8.0	100	182	130	28	5,400	
9-27-68	19.5	3		8.1	87	2.6	7.8	104	196	138	27	7,600	
9-28-68	19.5	3		8.2	89	2.5	8.0	104	188	136	27	930	
9-29-68	19.0	4		8.0	86	2.2	7.9	102	182	136	27	2,570	
9-30-68	19.0	10		7.6	81	2.2	8.0	102	188	134	27	210	
Sept. Avg.	19.8	15		7.0	76	2.8	7.8	101	184	135	26	821	
Max.	23.0	3		8.7	95	3.8	8.0	104	215	140	28	7,600	
Min.	18.3	30		2.8	30	2.1	7.4	94	110	128	25	20	
10-1-68	19.0	2		8.1	86	2.3	8.0	102	183	132	27	160	
10-2-68	19.0	3		8.1	86	2.4	8.0	102	180	136	26	450	
10-3-68	19.0	6		8.4	90	2.5	8.0	102	187	134	27	1,930	
10-4-68	17.0	45		8.8	90	2.8	7.7	106	202	138	26	1,250	
10-5-68	16.5	10		8.6	88	2.3	7.7	104	154	140	26	2,480	
10-6-68	16.5	5		8.6	88	2.2	7.8	106	132	142	26	1,950	
10-7-68	16.0	8		8.7	87	2.0	7.9	102	153	134	27	290	
10-8-68	16.0	4		8.8	87	2.2	7.9	102	150	134	28	380	
10-9-68	16.0	4		9.2	93	3.1	7.9	102	140	136	27	630	
10-10-68	16.0	7		9.0	90	2.2	7.9	102	135	134	26	1,580	
10-11-68	16.0	4		8.8	87	2.2	7.9	102	160	134	26	690	
10-12-68	16.0	4		8.6	86	2.0	7.9	100	163	138	22	130	
10-13-68	17.0	2		8.7	89	2.3	7.9	98	174	132	21	250	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-14-68	16.0	2		8.6	86	1.9	7.8	98	176	134	22	130				130
10-15-68	16.0	5		8.6	86	2.2	7.9	98	180	134	21	60				60
10-16-68	16.5	6		8.4	85	2.2	7.9	98	169	130	22	210				210
10-17-68	16.5	2		8.7	88	2.1	7.9	98	159	142		370				370
10-18-68	16.6	2		8.6	86	2.2	8.0	98	131	138	24	200				200
10-19-68	16.1	2		8.9	90	2.2	8.0	94	175	138	23	590				590
10-20-68	16.1	2		9.0	91	2.3	8.0	96	171	138	24	1,190				1,190
10-21-68	16.1	3		9.2	93	2.2	8.1	96	168	142	24	330				330
10-22-68	15.5	2		9.8	97	2.2	8.0	96	190	138	25	100				100
10-23-68	15.5	3		10.7	106	2.8	7.9	94	206	140	25	150				150
10-24-68	15.0	3		11.1	109	2.1	8.0	98	180	134	24	1,310				1,310
10-25-68	14.5	4		11.0	107	2.2	8.0	98	186	136	24	2,080				2,080
10-26-68	14.0	9		11.1	107	2.3	8.0	98	192	138	25	380				380
10-27-68	14.0	5		11.2	108	2.5	7.9	96	190	138	25	750				750
10-28-68	12.5	10		11.2	104	2.3	7.9	98	159	140	24	580				580
10-29-68	12.0	10		11.7	108	2.2	7.8	96		138	25	140				140
10-30-68	11.0	10		11.5	105	2.3	7.8	98		136	24	310				310
10-31-68	11.0	5		11.5	105	2.2	7.8	98		138	24	1,230				1,230
Oct. Avg.	15.6	6		9.4	94	2.3	7.9	99	169	137	25	717				717
Max.	19.0	45		11.7	109	3.1	8.1	106	202	140	28	2,080				2,080
Min.	11.0	2		8.1	85	1.9	7.7	94	131	130	21	60				60
11-1-68	11.5	5		11.3	103	3.0	7.8	98		136	24	810				810
11-2-68	11.5	6		11.7	106	2.2	7.8	134		134	25	7,600				7,600
11-3-68	11.5	8		11.9	108	2.3	7.8	98		134	25	6,400				6,400
11-4-68	11.5	4		12.2	110	2.1	7.7	134	147	134	25	1,220				1,220
11-5-68	11.5	2		12.3	111	2.1	7.9	100		130	26	170				170
11-6-68	11.5	7		12.2	110		7.9	98		132	26	120				120

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-7-68	11.5	15		11.8	107		2.0	7.9	98		134		22			1,750
11-8-68	11.5	15		12.2	110		2.2	7.8	100		134		25			8,100
11-9-68	10.0	15		12.2	108		2.4	7.8	100		130		24			2,210
11-10-68	10.0	15		12.2	108		2.4	7.8	98		132		24			2,700
11-11-68	9.5	10		12.5	109		2.3	7.8	98	144	136		25			2,830
11-12-68	9.0	20		12.7	110		2.4	7.9	98		132		24			1,820
11-13-68	8.5	30		13.3	113		2.3	7.8	100		132		25			2,620
11-14-68	8.3	20		12.7	104		2.3	7.8	100		138		25			2,370
11-15-68	8.8	10		13.0	111		2.4	7.9	96		140		25			960
11-16-68	8.8	15		12.9	110		2.1	7.8	98		144		24			3,000
11-17-68	8.3	20		12.8	105		2.5	7.8	100		140		24			1,400
11-18-68	7.7	25		12.5	104		2.4	7.8	98	151	138		24			1,500
11-19-68	7.7	30		13.0	109		3.8	7.8	98		140		23			1,940
11-20-68	6.6	45		13.1	107		2.8	7.8	92		138		23			1,040
11-21-68	5.6	50		13.2	104		2.5	7.8	98		124		20			730
11-22-68	5.0	70		13.0	102		2.4	7.7	96		128		20			570
11-23-68	6.0	35		13.2	105		2.0	7.8	96		132		21			1,300
11-24-68	6.5	50		13.2	107		2.1	7.8	94		132		22			980
11-25-68	6.0	30		12.8	103		2.2	7.8	90	213	126		21			1,100
11-26-68	6.1	20		12.8	103		2.4	7.8	94		124		24			1,150
11-27-68	6.0	20		13.0	104		2.2	7.8	94		126		24			140
11-28-68	7.0	30		13.0	107		2.1	7.7	96		120		23			490
11-29-68	7.0	35		13.0	107		2.3	7.7	94		132		23			1,080
11-30-68	7.0	35		13.0	107		2.5	7.8	94		130		23			500
Nov. Avg.	8.5	20		12.2	107		2.4	7.8	99	164	133		23			1,989
Max.	11.5	50		13.2	111		3.8	7.9	134	213	144		26			8,100
Min.	5.0	2		11.3	102		2.0	7.7	90	144	120		20			140

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-1-68	6.1	20		11.6	94	2.3	8.0	8.0	94		120		22			180
12-2-68	6.1	30		11.5	93	2.0	8.0	8.0	96	153	118		22			6,050
12-3-68	6.1	10		11.5	93	2.1	8.0	8.0	94		120		22			3,330
12-4-68	5.6	20		11.5	90	2.4	8.0	8.0	94		120		22			930
12-5-68	5.0	25		11.6	86	3.2	8.0	8.0	96		122		22			750
12-6-68	3.9	50		11.3	85	2.6	8.0	8.0	96		120		22			4,000
12-7-68	3.9	35		12.0	90	2.0	7.9	7.9	94		120		21			1,180
12-8-68	3.3	35		11.8	88	2.6	7.7	7.7	94		124		21			1,690
12-9-68	2.2	25		12.2	89	3.0	7.9	7.9	94		126		21			2,110
12-10-68	2.2	20		12.0	87	2.3	8.1	8.1	94		124		21			440
12-11-68	2.2	8		12.5	91	1.9	8.1	8.1	94		120		22	0.40		90
12-12-68	2.2	9		12.5	91	2.0	8.0	8.0	94		126		22			50
12-13-68	2.2	9		12.6	92	2.4	8.1	8.1	84		126		22			70
12-14-68	2.2	15		12.6	92	1.8	8.2	8.2	90		140		21			210
12-15-68	2.2	30		12.5	91	2.1	8.1	8.1	92		136		21			170
12-16-68	1.7	25		12.7	91	1.9	8.0	8.0	90		134	23	22			190
12-17-68	1.7	30		12.9	94	2.6	8.2	8.2	86		130		22	1.70		210
12-18-68	1.1	25		12.7	90	2.1	8.1	8.1	92		124		21			180
12-19-68	1.0	15		13.1	93	1.9	8.0	8.0	94		126	19	21			30
12-20-68	1.0	25		12.8	90	2.0	8.2	8.2	96		134		21			230
12-21-68	1.0	15		13.0	92	1.9	8.2	8.2	94		126		21			50
12-22-68	1.0	20		13.1	93	2.0	8.1	8.1	94		130		21			100
12-23-68	1.0	20		12.3	87	1.9	8.1	8.1	92	159	126		21	1.70		140
12-24-68	1.0	25		13.3	94	2.3	8.1	8.1	94		126		22			160
12-25-68	0.5	20		13.1	92	2.6	8.0	8.0	94		128		22			280
12-26-68	0.5	10		12.9	90	2.1	8.0	8.0	94		128	20	22			280
12-27-68	0.5	7		13.6	95	2.0	8.1	8.1	92		130		22	0.70		20
12-28-68	1.0	15		13.2	94	2.0	8.0	8.0	96		130		21			2,730
12-29-68	1.0	65		13.3	94	3.8	8.1	8.1	92		124		25			12,080

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Avon Lake - C1801																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-30-68	1.0	10		13.4	95	2.5	7.9		92	174	120		21			2,950
12-31-68	1.0	20		13.4	95	2.2	8.0		92		122		22			2,970
Dec. Avg.	2.3	20		12.5	91	2.3	8.0		93	162	126	21	22	1.13		1,414
Max.	6.1	65		13.4	95	3.8	8.2		96	174	140	23	25	1.70		12,080
Min.	0.5	7		11.3	85	1.8	7.7		84	153	118	19	21	0.40		20

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	21.0	6	17	271	5.7	63	2.0	7.9	90	90	--	129	--	--	--	--	600	--
7-2-68	18.9	7	17	286	6.7	70	2.2	7.9	90	90	--	130	24	24	0.26	--	730	--
7-3-68	19.7	15	17	284	8.4	90	1.7	7.9	90	90	--	132	--	--	--	--	1,450	--
7-5-68	18.9	8	17	275	7.1	75	1.7	7.9	90	90	--	135	--	--	--	--	730	--
7-8-68	17.8	5	12	296	4.0	41	2.3	7.8	91	91	--	132	--	--	--	--	1,510	--
7-9-68	17.1	5	12	296	2.7	27	2.9	7.7	91	91	--	134	24	26	0.40	0.0	2,700	--
7-10-68	--	6	12	296	1.8	--	3.5	7.8	90	90	--	134	--	--	--	--	14,100	256
7-11-68	19.0	3	12	296	0.8	7	3.7	7.7	90	90	--	136	--	--	--	--	2,500	--
7-12-68	18.0	3	12	299	1.1	11	3.6	7.8	92	92	--	134	--	--	--	--	1,200	--
7-15-68	15.6	4	12	303	0.6	5	3.8	7.7	91	91	184	130	--	--	--	--	1,750	1,260
7-16-68	16.1	2	12	299	0.7	6	4.3	7.7	92	92	185	142	--	--	--	--	2,700	--
7-17-68	16.1	4	12	305	0.3	2	6.6	7.7	92	92	199	132	--	--	--	--	3,000	--
7-18-68	15.6	2	12	299	0.2	2	5.3	7.7	92	92	191	132	22	26	0.19	0.47	1,400	--
7-19-68	18.3	4	24	303	0.2	2	4.9	7.7	92	92	183	132	--	--	--	--	3,250	--
7-22-68	16.0	3	17	311	0.2	2	4.8	7.6	93	93	--	133	--	--	--	--	4,150	--
7-23-68	15.6	4	24	310	0.1	1	5.3	7.6	93	93	--	130	--	--	--	--	2,150	--
7-24-68	15.6	2	12	315	0.4	3	4.7	7.7	94	94	--	133	--	--	1.52	0.40	2,250	--
7-25-68	16.0	2	17	306	0.3	2	5.7	7.7	92	92	--	132	21	26	--	--	3,100	--
7-26-68	17.0	3	17	305	0.3	2	5.5	7.6	93	93	190	131	--	--	--	--	800	--
7-29-68	22.5	6	12	292	7.3	83	2.2	8.6	93	93	--	126	--	--	--	--	1,050	--
7-30-68	23.5	2	12	290	7.2	84	2.2	8.4	93	93	--	129	--	--	--	--	1,480	605
7-31-68	23.5	3	12	283	6.8	79	2.0	8.4	93	93	--	129	--	--	0.53	0.00	1,100	350
July Avg.	18.2	5	15	296	2.3	31	3.7	7.8	92	92	189	132	23	26	0.58	0.29	2,440	618
Max.	23.5	15	24	315	8.4	90	6.6	8.4	94	94	199	142	24	26	1.52	0.47	14,100	1,260
Min.	15.6	2	12	271	0.1	1	1.7	7.6	90	90	184	126	21	24	0.19	0.00	600	256
8-1-68	21.1	4	8	295	3.5	39	2.8	7.9	92	92		129	26	28	--	--	1,410	--
8-2-68	22.2	7	12	301	3.4	38	2.6	7.9	91	91		128	--	--	--	--	1,670	--

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
8-5-68	21.5	3	8	303	2.6	28	2.8	7.9	92			128					1,350	
8-6-68	22.1	4	12	302	3.0	33	2.8	7.9	93			131			0.36		8,200	810
8-7-68	22.8	6	12	306	2.3	26	3.0	7.9	94			131					3,100	
8-8-68	22.6	7	12	310	1.8	20	4.2	7.9	94			131					2,265	
8-9-68	21.5	5	12	311	1.6	17	3.8	7.7	94			131	22	28		0.32	4,900	
8-12-68	24.0	8	17	309	6.0	70	2.9	8.4	92			132					1,710	856
8-13-68	22.8	5	17	315	3.7	42	4.7	7.8	93			135					2,920	513
8-14-68	22.8	3	24	286	3.8	43	3.8	7.9	94			137					1,576	
8-15-68	22.8	3	35	316	6.3	72	3.7	8.3	93			139					2,390	645
8-16-68	19.5	2	50	314	--	--	5.2	7.8	95			132	21	30	0.20	0.65	3,200	
8-19-68	17.1	2	50	312	--	--	6.3	7.9	107			140			0.74	0.47	8,600	379
8-20-68	20.0	2	70	313	--	--	5.6	7.7	117			135	22	28			6,400	
8-21-68	24.2	7	70	306	7.4	87	3.8	8.7	95			128					1,480	
8-22-68	22.8	2	50	345	0.8	8	6.9	--	102			132					743	
8-23-68	23.3	3	50	298	0.8	8	5.9	--	94			132					1,470	
8-24-68	18.5	--	70	--	--	--	7.2	--	--			--						
8-26-68	24.8	15	35	230	6.8	80	5.2	--	--			126					3,800	
8-27-68	25.0	5	17	273	6.9	82	4.3	8.4	95			128					520	
8-28-68	24.5	4	17	300	6.9	82	4.0	8.5	94			133	22	28			390	
8-29-68	24.0	2	12	303	7.1	83	--	8.4	93			130			0.18	0	380	
8-30-68	24.0	4	8	296	7.0	83	--	8.4	94			--					130	
Aug. Avg.	22.3	5	29	302	4.3	47	4.4	8.1	96			132	23	28	0.37	0.36	2,664	640
Max.	25.0	15	70	345	7.4	87	6.3	8.7	117			140	26	30	0.74	0.65	8,600	856
Min.	17.1	2	8	230	0.8	8	2.6	7.7	91			126	21	28	0.18	0	130	379
9-3-68	20.0	3	8	319	0.4	3	4.8	7.6	97			134	21				340	
9-4-68	18.5	3	12	314	0.1	1	4.1	7.6	97			137	27				1,250	
9-5-68	18.5	4	8	285	0.3	2	4.5	7.6	98			134				0	260	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
9-6-68	18.5	3	8	270	0.3	2	3.8	7.7	96	137	0	300						
9-9-68	19.5	4	8	295	4.0	4	3.0	7.7	96	134		220						
9-10-68	18.5	5	8	308	1.5	15	3.4	7.6	97	137		230						
9-11-68	18.9	2	8	306	0.1	1	3.5	7.6	99	134	0.20	140						
9-12-68	20.0	25	12	244	7.4	80	2.4	8.1	99	133	24	270						
9-13-68	20.0	4	8	246	7.4	80	1.6	8.3	96	129		48						
9-16-68	20.6	4	6	296	7.3	80	1.9	8.3	98	132		64						
9-17-68	20.6	3	6	290	6.7	73	1.9	8.3	95	132		170						
9-18-68	20.0	3	6	308	5.4	59	1.9	8.0	97	132	24	160						
9-19-68	19.6	6	8	317	3.0	32	1.9	7.9	95	129	0.26	100						
9-20-68	18.9	2	8	306	4.6	49	1.9	8.0	98	132	27	84						
9-23-68	19.0	2	6	299	0.3	3	3.0	7.6	97	129		120						
9-24-68	19.0	3	6	278	0.1	1	3.1	7.6	99	129	29	200						
9-25-68	20.0	3	6	308	0.3	3	3.2	7.5	98	132		510						
9-26-68	21.5	2	6	290	9.3	105	1.3	8.6	95	128		270						
9-27-68	21.0	2	6	286	8.6	96	1.7	8.5	96	127		300						3,250
9-30-68	21.5	3	6	364	8.3	93	1.3	8.5	96	115		20						2,880
Sept. Avg. 19.7	4	8	296	3.8	39	2.7	7.9	97	131	24	29	253						3,065
Max. 21.5	25	12	364	9.3	105	4.8	8.6	99	137	27	29	1,250						3,250
Min. 18.5	2	6	244	0.1	1	1.3	7.6	95	115	21	28	48						2,880
10-1-68	21.0	3	6	255	8.2	91	1.2	8.5	96	124	20	250						
10-2-68	21.0	4	6	265	8.4	93	1.3	8.4	96	126		300						2,400
10-3-68	21.0	2	6	231	8.0	90	1.2	8.4	96	123		87						
10-4-68	20.0	65		258	7.5	82	5.1	8.3	96			460						
10-7-68	19.0	4	6	302	8.3	88	1.2	8.3	96	127	23	1,700						
10-8-68	18.0	8	6	302	8.1	85	1.2	8.2	96	128	26	950						
10-9-68	19.0	4	4	307	8.9	95	1.2	8.3	93	122		630						

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.	PC
10-10-68	18.0	2	4	306	8.9	93	1.5	8.2	94	127	190							
10-11-68	18.0	4	4	299	8.8	92	1.2	8.3	94	124	70							
10-14-68	18.0	2	3	283	9.0	95	1.3	8.3	95	129	28		23	26	0.08	0		
10-15-68	18.0	2	3	300	8.9	93	1.2	8.3	94	131	32							
10-16-68	18.0	3	4	297	9.1	96	1.2	8.3	95	129	4							
10-17-68	19.0	4	4	265	8.6	92	1.2	8.3	95	131	20							
10-18-68	19.0	2	4	257	8.1	87	1.2	8.2	96	129	20							
10-21-68	19.0	15			8.9	95	1.4	8.3	95	125	150		20	24	0.05	0		
10-22-68	19.0	3	4	304	9.0	97	0.8	8.4	97	130	190							
10-23-68	18.0	5	6	180	8.7	91	1.3	8.4	96	132	130							
10-24-68	18.0	3	6	222	8.8	92	1.4	8.4	97	134	48							
10-25-68	17.0	4	6	310	8.7	89	1.3	8.4	97	133	580							
10-28-68	17.0	10	4	296	8.9	91	1.4	8.1	95	130	130		22	26	0.26	0		
10-29-68	16.0	40		307	9.0	90	1.8	8.3	96	132	180							
10-30-68	16.0	6	4	303	9.1	91	1.4	8.1	94	130	280							
10-31-68	15.0	3	4	313	9.1	90	1.5	8.3	97	136	68							
Oct. Avg.	18.3	9	5	280	8.6	91	1.4	8.3	96	129	282		22	25	0.21	0.03		2,400
Max.	21.0	65	6	313	9.1	97	5.1	8.5	97	136	1,700		23	26	0.62	0.10		2,400
Min.	15.0	2	3	180	7.5	82	0.8	8.1	93	122	4		20	23	0.05	0		2,400
11-1-68	15.0	3	4	311	9.5	93	1.2	8.3	94	143	76							
11-4-68	15.0	2	4	307	9.8	97	1.5	8.3	96	136	44		24		0	0		
11-6-68	16.0	3	4	287	9.5	95	1.5	8.3	97	136	56							
11-7-68	16.0	15	4	297	9.5	95	1.6	8.3	97	134	180							
11-8-68	14.0	30	6	230	9.4	90	2.1	8.0	97	130								
11-12-68	13.0	10	6	291	9.6	90	1.5	8.0	96	130	140		22	25	0.36			
11-13-68	12.0	150	12	301	9.7	89	3.7	7.9	97	130	310							
11-14-68	11.0	20	6	341	10.1	91	1.1	8.0	95	132	89							

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	CL	T. Fe	T. Mn	T. Coli.	PC
11-15-68	12.0	20	4	314	10.3	95	1.1	8.0	95	132							62	
11-18-68	11.0	20	4	313	10.2	92	1.3	7.9	97	125							93	
11-19-68	11.0	35	6	281	10.3	93	1.4	8.0	91								76	
11-20-68	10.0	140		283			3.9	8.0	97	122							560	
11-21-68	9.0	35	6	229	11.3	98	1.2	7.9	96	123			21	23	0.54	0	180	
11-22-68	10.0	35	6	287	11.0	97	1.3	8.0	94	124							89	
11-25-68	10.0	10	4	188	11.2	99	1.0	8.1	94	124			22	26	0.32	0	180	
11-26-68	10.0	15	4	189	11.2	99	1.1	8.1	92	123							220	
11-27-68	10.0	9	4	297	11.4	100	1.1	8.1	94	124							230	
11-29-68	11.0	8	4	281	11.4	103	1.6	8.1	94	126							110	
Nov. Avg.	12.0	30	5	279	10.3	95	1.6	8.1	95	129			22	25	0.31	0	159	
Max.	16.0	150	12	341	11.4	103	3.9	8.3	97	143			24	26	0.54	0	560	
Min.	9.0	2	4	188	9.4	89	1.0	7.9	91	122			21	23	0	0	44	
12-2-68	10.0	9	4	280			1.2	8.1	94	120			21	21	0.14	0	36	
12-3-68	10.0	5		278	11.7	103	1.0	8.0	94	118							50	
12-4-68	9.0	6		240	11.7	101	1.2	8.0	93	120							250	
12-5-68	9.0	20	6	283	12.0	103	1.5	8.1	93	132							470	
12-6-68	10.0	50		280	12.0	105	1.2	8.1	94	133							240	
12-9-68	7.0	35		157	12.5	103	1.0	8.0	97	128			24	24	1.32	0	260	
12-10-68	6.0	15	4	260	12.9	103	0.9	8.0	97	135							34	
12-11-68	7.0	7	4	284	12.6	104	0.8	8.0	98	123							29	
12-12-68	7.0	10	4	291	12.9	105	0.7	8.0	94	128							6	
12-13-68	6.0	6	4	298			0.8	8.0		130							130	
12-16-68	6.0	150	4	332	13.1	105	1.8	8.1	94	120			23	21	0.26	0	330	
12-17-68	7.0	50	6	271	13.5	110	1.4	8.0	91	128							120	
12-18-68	6.0	15	4	261	13.5	108	0.7	7.9	92	114							64	
12-19-68	7.0	15	4	257	13.8	113	0.7	7.9	93	126							33	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland Crown - C2001

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-20-68	7.0	20	4	294	13.9	113	0.7	7.9	94	131							37	
12-23-68	7.0	15	4	268	13.9	113	0.9	7.8	93	96			19	20	1.16	0.12	120	
12-24-68	7.0	200					1.7	7.8										
12-26-68	11.4	30		279	14.5	131	0.9	8.1	89	123							16	
12-27-68	11.4	5		330			0.8	8.1	94	105							19	
12-30-68	8.4	9		314			1.4	8.0	85	120			24	23	0.34	0		
12-31-68	9.0	6		303	14.3	123	0.8	8.0	89	116							12	
Dec. Avg.	8.0	30	4	278	13.0	109	1.0	8.0	93	122			22	22	0.64	0.03	119	
Max.	11.4	200	6	332	14.5	131	1.8	8.1	98	135			24	24	1.32	0.12	470	
Min.	6.0	5	4	157	11.7	101	0.7	7.8	85	96			19	20	0.14	0	6	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T.	Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
7-1-68	18.3	2	1	--	7.9	83	1.2	8.0	88	188	128	188	128				0.06	3,400	896
7-2-68	18.3	3	1	200	8.6	90	1.2	8.2	92	202	124	202	124					2,200	3,463
7-3-68	19.4	3	1	270	9.2	99	1.2	8.3	84		124		124					4,700	3,685
7-5-68	19.4	3	1	290	2.3	24	1.2	7.7	92		122		122	21	24			0	3,938
7-8-68	18.8	2	2	290	0.6	5	1.1	7.8	91		126		126			0.43		0	4,470
7-9-68	19.4	2	1	300	1.8	18	1.4	7.9	91		124		124	24				0	5,267
7-10-68	19.4	2	1	295	0.5	4	1.2	7.8	82		128		128					0	2,523
7-11-68	19.4	2	2	290	1.9	19	0.9	7.8	92		127		127			0.33	0.0	0	2,590
7-12-68	19.4	2	1	260	1.9	19	1.1	7.4	96		128		128					0	3,091
7-15-68	18.9	2	4	250	7.8	83	1.4	8.0	94		130		130	11	19			TNTC	5,345
7-16-68	21.1	1	4	275	7.7	85	1.2	7.9	90		134		134	10	21			1,870	5,342
7-17-68	21.1	1	4	--	8.0	90	1.4	7.9	88		128		128					2,200	8,940
7-18-68	20.0	1	2	310	7.4	80	0.9	7.8	94	204	128	204	128			0.25	0.0	1,935	5,135
7-19-68	19.4	1	2	310	8.4	90	1.3	8.3	92	204	124	204	124					2,100	6,463
7-22-68	21.6	1	2	305	7.5	85	1.6	8.1	95	211	125	211	125					2,700	4,277
7-23-68	22.7	1	2	309	8.1	93	1.4	8.5	94	205	125	205	125	27	26			2,700	2,931
7-24-68	22.2	1	2	305	6.6	75	1.5	8.1	92	211	127	211	127			0.15	0.0	1,600	3,719
7-25-68	22.2	1	2	316	7.3	83	1.4	8.3	88	215	126	215	126					1,040	4,308
7-26-68	22.2	1	2	310	7.2	82	1.4	8.3	88	214	127	214	127					2,200	5,342
7-29-68	22.7	1	2	295	7.5	85	1.1	8.4	89	210	125	210	125					2,960	2,934
7-30-68	22.7	1	2	306	7.4	85	1.2	8.4	90	204	123	204	123					1,650	15,869
7-31-68	22.7	1	2	305	7.8	90	1.2	8.5	88	211	126	211	126	28	26	0.10	0.0	660	11,193
July Avg.	20.5	2	2	290	6.1	67	1.3	8.1	90	207	126	207	126	20	23	0.25	0.01	1,615	5,078
Max.	22.7	3	4	316	9.2	90	1.4	8.5	96	215	134	215	134	28	26	0.43	0.06	4,700	15,869
Min.	18.3	1	1	200	0.5	4	0.9	7.4	82	188	122	188	122	10	19	0.10	0.0	0	886
8-1-68	22.2	1	2	305	7.8	89	1.5	8.3	88		127		127					594	8,340
8-2-68	22.2	1	2	310	7.8	89	1.4	8.4	89	211	127	211	127					1,300	2,881

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103																		
Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
8-5-68	22.7	1	2	310	7.8	90	1.4	8.3	96	217	127	127					1,900	3,551
8-6-68	23.3	1	2	312	7.1	82	1.8	8.3	91	229	127	127					2,400	2,594
8-7-68	23.3	1	2	315	8.1	95	1.7	8.4	92	223	130	130					3,200	5,551
8-8-68	23.3	1	2	320	7.7	90	1.6	8.5	90		128	128					2,400	--
8-9-68	23.8	1	2	303	7.7	90	1.6	8.5	90		128	128	28	27	0.04	0	1,700	5,860
8-12-68	24.4	1	6	--	--	--	--	--	--		--	--					--	3,790
8-13-68	24.4	1	12	306	7.7	91	1.7	8.5	92		130	130					1,300	--
8-14-68	23.4	1	17	302	8.0	94	2.6	8.5	92		129	129					--	3,708
8-15-68	23.4	<1	35	--	7.7	89	2.4	8.6	92		131	131					--	
8-16-68	23.4	1	12	--	7.8	90	2.6	8.6	90		132	132					2,400	3,167
8-19-68	23.4	3	17	300	1.8	20		--	90		124	124					0	1,906
8-20-68	23.4	1	17	--	2.0	23		--	88		130	130					0	1,503
8-21-68	23.8	1	8	300	2.0	23		8.2	92		128	128					0	1,450
8-22-68	23.8	1	6	305	2.0	23		7.9	89		125	125					0	1,240
8-23-68	23.8	1	6	305	2.0	23		7.9	89		125	125					0	1,700
8-26-68	23.8	1	8	301	7.1	83		8.3	--		131	131					4,400	1,843
8-27-68	23.8	3	17	285	7.1	83		8.3	92		132	132					800	3,793
8-28-68	23.3	1	8	295	6.9	80		8.3	92		128	128	18	24	0.05	0	6,800	--
8-29-68	23.3	2	8	296	6.9	80		8.3	92		129	129					132	3,972
8-30-68	23.3	1	4	295	7.0	80		8.1	92		132	132					--	4,923
8-31-68	23.3	1	--	--	--	--		8.2	--								--	--
Aug. Avg.	23.4	1	9	321	6.2	72	1.8	8.3	91	220	129	129	23	26	0.05	0	1,629	3,431
Max.	24.4	3	35	320	8.1	94	2.6	8.6	96	229	132	132	28	27	0.05	0	6,800	8,340
Min.	22.2	1	2	285	2.0	20	1.4	7.9	88	211	124	124	18	24	0.04	0	0	1,240
9-3-68	22.2	1	4	285	7.4	84	--	8.3	93		131	131					3,900	
9-4-68	22.2	1		229	7.7	88	--	8.3	92		131	131					4,600	
9-5-68	22.2	1		300	7.9	90	1.0	8.3	90		129	129					580	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
9-6-68	21.6	1	--	310	7.9	88	1.0	8.3	90	130							189	
9-7-68	21.6	1	--	--	--	--	1.4	8.2	--	--							--	
9-9-68	21.6	1	3	285	7.8	87	0.8	7.9	92	126							95	2,865
9-10-68	21.1	1	2	295	7.8	86	0.8	8.1	92	130							121	3,065
9-11-68	21.1	1	4	285	8.0	90	0.9	8.3	92	129							99	
9-12-68	21.1	5	4	295	7.6	85	1.2	8.2	93	129			19	26	0.02	0.006	264	2,822
9-13-68	20.5	1	2	280	7.3	80	1.1	8.1	92	130							891	4,434
9-16-68	20.5	1	2	279	8.3	91	1.0	8.3	92	129							660	
9-17-68	20.5	1	1	290	7.6	83	0.9	8.1	90	130							99	
9-18-68	20.5	1	1	280	7.9	87	0.8	8.6	92	129							33	
9-19-68	20.5	1	1	280	7.7	85	1.0	8.1	94	129			14	22	0.15	0.50	690	3,611
9-20-68	20.5	15	1	285	8.2	90	1.4	8.1	91	129							143	3,291
9-23-68	20.5	1	2	350	8.0	88	1.2	8.1	92	133							143	
9-24-68	20.5	1	2	285	7.3	80	--	8.3	92	129							11	
9-25-68	21.1	1	2	310	8.3	93	--	8.3	91	129							88	2,639
9-26-68	21.1	1	4	292	8.7	97	0.9	8.2	90	130			18	26	0.02	0	22	
9-27-68	21.1	1	3	285	8.3	93	1.0	8.5	92	129							22	
9-30-68	20.0	2	4	280	8.3	90	1.0	8.3	96	126							726	
Sept. Avg.	21.0	2	2	289	7.9	88	1.0	8.2	92	129			17	25	0.06	0.17	668	3,246
Max.	22.2	15	4	350	8.7	97	1.4	8.6	96	133			19	26	0.15	0.50	4,600	4,434
Min.	20.5	1	1	229	7.3	80	0.8	7.9	90	126			14	22	0.02	0	11	2,639
10-1-68	20.0	2	3	270	8.3	91	0.7	8.3	94	126							594	
10-2-68	20.0	1	3	280	8.3	91	0.9	8.3	92	128			19	29		0.22	393	
10-3-68	20.0	1	3	301	8.3	91	0.8	8.3	94	130							187	2,390
10-4-68	19.4	20	3	260	8.2	89	1.1	8.1	94	126							1,913	3,144
10-7-68	17.8	4	4	275	8.3	87	0.9	7.8	91	128							110	2,594
10-8-68	17.7																44	2,723

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	Tb	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
10-9-68	17.2	2	4	260	8.5	88	0.6	8.2	89			124	28	26		0.20	752	3,706
10-10-68	17.2	2	4	295	9.1	94	0.8	8.3	92			126					346	3,607
10-11-68	17.2	2	3	275	8.7	90	0.8	8.1	92			126					726	3,687
10-12-68	17.2	1					1.0	8.1										
10-14-68	17.2	2	4	290	9.4	97	0.4	8.2	90			130					1,774	1,947
10-15-68	17.2	1	4	295	9.2	95	1.0	8.3	91			128					5,900	1,200
10-16-68	17.2	2	4	290	9.3	96	0.9		94								1,980	1,685
10-17-68	17.2	1	4	292	9.5	98	0.8	8.2	93			125					693	1,952
10-18-68	17.7	2	4		9.0	95	0.8		97			129					506	1,991
10-21-68	17.2	3		280	8.9	93	0.9	7.8	95			124					143	1,760
10-22-68	17.2	1		295	9.1	94	0.8	8.0	94			124					22	1,625
10-23-68	16.6	9	4	310	8.6	87	0.9	8.3	96			126					154	1,716
10-24-68	16.6	5	4	298	8.9	90	0.9	8.2	94			126	20	26	0		22	1,809
10-25-68	16.6	2	4	280	9.1	93	0.9	8.0	96			124					6	1,658
10-28-68	14.4	9	4	270	9.3	90	1.2	7.8	89			124					166	1,658
10-29-68	14.4	20	8	310	9.4	92	1.2	8.0	94			127					209	1,352
10-30-68	13.3	5	8	280	9.4	90	0.6		94			128					777	1,298
10-31-68	13.3	4	4		9.5	91	0.9	7.7	84			126	18	29	0		37	1,450
Oct. Avg.	17.1	4	4	285	8.9	92	0.9	8.1	93			126	21	27		0.11	759	2,140
Max.	20.0	20	8	310	9.5	87	1.1	8.3	97			130	28	29		0.22	5,900	3,687
Min.	13.3	1	3	260	8.2	98	0.4	7.7	89			124	18	26		0	6	1,200
11-1-68	13.3	4	4		9.5	90	0.7	7.7	84			126					0	
11-4-68	13.3	2	4	330	9.8	93	0.8	7.9	88			124					33	426
11-6-68	12.7		4				0.8						19	27	0.22	0.04	80	
11-7-68	12.7	10	4	310	9.8	91	1.2	8.0	86			122					350	
11-8-68	12.7	10	4	280	9.4	98	0.9	7.7	87			122					220	
11-12-68	11.1	15	4		8.4	76	1.2	7.8	92								350	1,492

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
11-13-68	10.5	40	4				1.3										220	1,804
11-14-68	10.0	20	8		9.4	83	1.4	8.0	90					26	0.36	0.11	308	
11-15-68	9.4	15	8		8.9	77	1.1	7.9	91								209	
11-18-68	9.4	15	8	290	9.6	84	1.1	7.9	90			128					341	
11-19-68	9.4	15	8	285	8.9	77	1.2	7.7	92			126					33	
11-20-68	7.7	55	4	250			1.6	7.9	91			124					3,432	
11-21-68	7.7	30	4	250	10.5	87	1.4	7.9	92			124	23	25	0.40	0.06	55	
11-22-68	8.3	20	4	260	10.8	91	0.9	8.0	90			124					44	
11-25-68	8.8	7	4	300	10.4	89	0.9	7.8	96			126					20	
11-26-68	8.8	4	4	280	11.3	96	0.7	8.0	91			130					88	
11-27-68	8.3	3	4	295	11.4	97	0.6	7.9	96			130					62	
11-29-68	7.7	3	3	290	11.2	94	0.8	7.6	88			130	18	30	0.31	0	21	
Nov. Avg.	10.1	15	5	285	10.0	88	1.0	7.8	90			126	20	27	0.32	0.05	309	1,241
Max.	13.3	55	8	230	11.4	97	1.6	8.0	96			130	23	30	0.40	0.11	3,432	1,804
Min.	7.7	2	3	250	8.4	76	0.6	7.6	84			122	18	25	0.22	0.04	0	426
12-2-68	7.2	4	4	255	11.3	93	1.0	7.9	92			126					43	
12-3-68	7.2	4	4	265	11.7	96	1.0	7.6	96			124					180	
12-4-68	6.6	5		255	11.8	95	0.9	7.8	94			124	17	29	0.12	0	106	
12-5-68	6.6	15	3	275	8.8	70	1.2	7.7	94			126					92	
12-6-68	6.1	50	8	340	11.7	94	1.5	8.0	96			128					960	
12-9-68	4.4	20	8	265	12.3	95	0.9	8.1	94			128					77	
12-10-68	5.5	10		270	12.4	98	0.6	8.2	92			126					26	
12-11-68	5.0	5		266	12.3	86	0.5	8.0	94			132	16	24	0.004	0	23	
12-12-68	4.4	5			12.8	98	0.7	8.1	94			128					67	
12-13-68	4.4	4	4	275	12.8	98	0.6	8.2	92			129					440	
12-16-68	3.9	60	12	200	13.0	99	1.4	7.8	90			130					52	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Cleveland-Division - C2103

Date	T	TB	TO	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.	PC
12-17-68	2.8	35	2	260	13.5	100	0.9	0.9	7.8	92		129					132	
12-18-68	2.2	15	4	250	13.3	96	0.6	0.6	8.0	86		126	26	28	0.09	0	28	
12-19-68	2.2	10	4	245	13.6	98	0.6	0.6	8.0	86		126					10	
12-20-68	2.2	20	4	210	13.7	99	0.6	0.6	7.8	86		128					33	
12-23-68	1.6	15	2	230			1.3	7.9	89			128					85	
12-24-68	1.6	20	3	255			0.9	8.0	91			128	20	28	0.40	0	253	
12-26-68	0.5	40	4	260			0.6	8.1	92			128					8	
12-27-68	0.5	15	4	210			0.6	8.1	90			132					0	
12-30-68	0.5	7	4	249	14.3	100	0.8	8.2	92			124					5	
12-31-68	0.5	3	4	251	14.2	99	0.6	8.0	88			124	13	29	0.20	0	0	
Dec. Avg.	3.6	15	5	254	12.6	95	0.8	8.0	91			127	18	27	0.16	0	125	
Max.	7.2	60	12	340	14.3	100	1.5	8.2	96			132	26	29	0.40	0	440	
Min.	0.5	3	2	200	8.8	86	0.5	7.6	86			124	13	24	0.004	0	0	

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO	Cl	T. Fe	T. Mn	T. Coli
7-1-68	20.0	40			4.0		--	103		149		50			930
7-2-68	20.0	35			3.6		7.6	105		141		44			930
7-3-68	20.0	40			3.6		8.0	101		160		46			2,100
7-4-68	20.0	30			2.5		8.1	101		139		45			230
7-5-68	20.0	40			2.4		7.9	102		136		45			230
7-6-68	20.0	45			3.1		7.9	101		152		43			430
7-7-68	20.0	30			2.9		7.5	104		133		47			430
7-8-68	20.0	15			2.5		7.6	102		138		47			4,600
7-9-68	22.0	15			3.0		7.7	103		136		42			230
7-10-68	21.0	15			2.6		7.6	103		142		46			730
7-11-68	20.0	20			2.4		7.5	102		150		49			1,500
7-12-68	19.0	20			3.4		7.5	102		161		64			930
7-13-68	19.0	25			2.7		7.8	102		155		62			430
7-14-68	18.0	15			2.5		7.7	101		146		53			730
7-15-68	20.0	30			2.3		7.7	106		139		46			930
7-16-68	22.0	35			2.4		7.8	103		136		50			2,400
7-17-68	22.0	20			2.7		8.0	99		142		50			230
7-18-68	22.0	15			3.3		7.5	108		143		52			2,400
7-19-68	23.0	75			3.7		8.0	107		145		52			9,300
7-20-68	23.0	30			3.2		8.0	101		141		48			430
7-21-68	23.0	25			2.3		8.0	103		145		51			230
7-22-68	23.0	20			3.1		7.8	103		136		48			730
7-23-68	24.0	30			2.6		7.9	105		140		53			2,400
7-24-68	23.0	20			2.7		7.8	101		140		50			4,300
7-25-68	24.0	25			2.5		7.9	103		139		50			230
7-26-68	23.0	25			2.0		8.0	107		159		50			430
7-27-68	23.0	30			2.3		8.0	105		143		53			430
7-28-68	23.0	40			2.5		7.9	105		146		54			430
7-29-68	24.0	45			2.1		7.8	101		149		55			1,590
7-30-68	24.0	20			2.1		7.8	101		142		48			430
7-31-68	24.0	20			2.0		7.9	102		137		48			230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601															
Date	T	TB	Cond.	DO	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe.	T. Mn	T. Coli.
July	Avg.	21.5	30		2.7	7.8		103		144		50			1,326
	Max.	24.0	45		4.0	8.1		108		161		64			9,300
	Min.	18.0	15		2.0	7.5		99		133		42			91
8-1-68	24.0	20		3.1	7.9		102			138		51			91
8-2-68	24.0	20		3.0	7.9		103			139		55			230
8-3-68	24.0	15		2.8	7.7		102			140		54			46,000
8-4-68	24.0	15		2.8	7.6		105			116		56			2,400
8-5-68	24.0	15		3.0	7.8		104			160		56			1,500
8-6-68	25.0	20		2.9	7.6		108			119		54			430
8-7-68	25.0	10		3.1	7.8		102			124		53			730
8-8-68	25.0	20		2.8	7.9		101			122		50			1,100
8-9-68	25.0	20		3.1	8.0		106			114		50			230
8-10-68	25.0	25		2.7	8.0		102			141		52			430
8-11-68	25.0	40		3.2	7.8		102			129		75			1,500
8-12-68	25.0	20		3.4	7.8		101			150		125			730
8-13-68	25.0	25		3.0	7.7		102			137		96			0
8-14-68	25.0	20		2.7	7.8		103			127		75			230
8-15-68	24.0	15		4.0	8.0		106			120		54			2,400
8-16-68	24.0	30		2.9	7.7		104			116		63			930
8-17-68	24.0	20		2.9	7.8		102			134		56			430
8-18-68	24.0	25		4.8	8.1		101			136		57			150
8-19-68	24.0	25		4.4	8.0		103			142		62			430
8-20-68	24.0	15		3.8	8.1		107			126		57			2,400
8-21-68	25.0	10		4.9	8.1		105			128		52			430
8-22-68	25.0	20		4.1	8.1		107			129		52			430
8-23-68	26.0	20		4.5	8.2		103			125		53			730
8-24-68	26.0	30		3.8	8.1		104			130		56			430
8-25-68	22.0	65		5.8	8.1		109			137		58			230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-26-68	25.0	110				8.4	7.7	110			140		57			2,400
8-27-68	24.0	95				5.1	7.4	113			139		55			11,000
8-28-68	23.0	50				4.2	7.8	103			172		87			4,300
8-29-68	23.0	35				4.3	7.8	102			152		86			110,000
8-30-68	23.0	35				4.8	8.1	104			152		73			11,000
8-31-68	23.0	30				4.3	8.0	106			166		85			930
Aug. Avg.	24.3	30				3.8	7.9	104			135		63			6,588
Max.	26.0	110				8.4	8.2	113			166		125			110,000
Min.	22.0	10				2.7	7.4	101			114		50			0
9-1-68	23.0	35				3.5	7.8	109			156		83			2,300
9-2-68	22.0	30				3.2	8.0	102			139		60			15,000
9-3-68	22.0	30		8.6	98	2.5	8.0	102			139		60			2,100
9-4-68	22.0	30				2.6	7.7	104			157		74			930
9-5-68	22.0	40				2.3	7.7	107			148		65			430
9-6-68	22.0	45				3.1	7.9	105			138		56			9,300
9-7-68	22.0	60				3.0	8.0	110			140		50			230
9-8-68	22.0	40				3.0	7.8	106			148		50			2,100
9-9-68	21.0	15				3.0	8.2	114			135		53			9,300
9-10-68	21.0	20				2.5	8.0	107			134		59			9,300
9-11-68	21.0	30				2.0	7.9	105			145		60			150
9-12-68	20.0	230				5.1	7.9	111			148		65			9,300
9-13-68	21.0	40				1.9	8.5	103			143		58			430
9-14-68	21.0	20				2.9	8.1	106			144		58			1,500
9-15-68	21.0	20				1.5	8.0	100			148		60			230
9-16-68	21.0	20				2.6	8.1	106			148		61			930
9-17-68	21.0	20		7.2	80	1.4	8.3	102			132		55			730
9-18-68	21.0	35				2.9	7.9	104			125		50			2,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-19-68	21.0	10					1.5	8.2	100		125		54			730
9-20-68	21.0	30					1.8	7.5	106		140		65			430
9-21-68	21.0	10					1.7	7.7	106		142		80			930
9-22-68	22.0	20					1.7	7.9	110		135		57			150
9-23-68	22.0	15					2.5	7.9	102		140		65			230
9-24-68	22.0	15					1.2	8.3	110		138		65			430
9-25-68	22.0	30					--	8.0	106		130		50			750
9-26-68	22.0	50					3.0	7.9	104		135		50			500
9-27-68	21.0	20					2.6	7.9	110		135		50			230
9-28-68	21.0	40					3.3	8.0	106		130		50			9,300
9-29-68	21.0	110					3.1	7.8	110		134		56			430
9-30-68	20.0	35					3.7	7.5	106		134		52			1,500
Sept. Avg.	21.4	40		7.9	89		2.6	7.9	106		139		59			2,739
Max.	23.0	230		8.6	98		5.1	8.5	114		157		83			15,000
Min.	20.0	10		7.2	80		1.2	7.5	100		125		50			150
10-1-68	20.0	35		8.8	96		3.9	8.2	110		113		63			7,500
10-2-68	21.0	25					2.8	8.1	100		150		70			1,500
10-3-68	21.0	25					3.2	7.4	100		148		52			2,000
10-4-68	19.0	115					4.4	7.4	108		160		68			2,400
10-5-68	18.0	130					4.6	7.6	110		158		68			4,600
10-6-68	17.0	130					3.1	7.9	106		168		58			3,900
10-7-68	17.0	85					2.7	8.0	108		140		47			1,500
10-8-68	16.0	40					2.4	7.8	106		134		52			2,400
10-9-68	16.0	55					2.5	7.7	114		156		55			2,400
10-10-68	17.0	30					2.5	7.7	112		146		55			4,600
10-11-68	16.0	30					2.2	8.0	110		150		54			2,400
10-12-68	16.0	25					2.0	7.9	112		164		60			230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake-E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-13-68	16.0	20				1.8	7.7	108			162		54			430
10-14-68	16.0	25				1.8	7.6	110			152		56			4,300
10-15-68	17.0	20				1.8	7.8	110			150		51			930
10-16-68	18.0	15				1.8	8.0	110			150		45			430
10-17-68	18.0	20				1.6	8.1	102			164		45			430
10-18-68	18.0	20				1.9	7.8	100			164		40			36
10-19-68	18.0	20				2.1	7.7	110			150		55			2,400
10-20-68	18.0	20				3.0	7.9	104			150		50			930
10-21-68	17.0	70				3.7	7.8	110			140		47			4,300
10-22-68	16.0	40				3.2	8.2	112			140		50			4,300
10-23-68	16.0	135				3.1	7.5	112			146		55			9,300
10-24-68	16.0	90				3.3	7.7	106			148		54			24,000
10-25-68	16.0	45				2.6	7.7	108			160		52			2,400
10-26-68	15.0	90				1.6	7.4	104			140		48			2,400
10-27-68	15.0	110				2.0	7.4	104			148		54			4,300
10-28-68	14.0	100				2.1		108			142		48			7,500
10-29-68	12.0	135				3.1	8.1	110			152		50			110,000
10-30-68	13.0	70				2.0	7.7	110			160		55			2,900
10-31-68	12.0	70				1.6	7.8	108			156		47			1,600
Oct. Avg.	16.6	60		8.8	96	2.6	7.8	108			150		53			7,042
Max.	21.0	135		8.8	96	4.6	8.2	112			168		70			110,000
Min.	12.0	15		8.8	96	1.6	7.4	100			113		40			36
11-1-68	12.0	30				1.8	7.2	100			151		46			1,500
11-2-68	12.0	20				2.1	7.7	115			174		48			430
11-3-68	13.0	30				2.8	7.7	106			156		48			150
11-4-68	13.0	35				3.2	7.9	110			144		45			9,300
11-5-68	13.0	40				2.8	8.1	106			146		46			46,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	\$ Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-6-68	13.0	30				2.0	7.8	106	168	65						46,000
11-7-68	12.0	100				2.3	7.9	114	192	90						110,000
11-8-68	11.0	110				1.6	7.8	110	200	113						9,300
11-9-68	11.0	110				2.2	8.1	112	172	54						2,400
11-10-68	11.0	45				3.5	8.1	106	190	53						15,000
11-11-68	10.0	55				3.4	8.2	110	160	50						24,000
11-12-68	10.0	50				3.1	7.8	102	140	56						46,000
11-13-68	9.0	210				2.8	7.5	104	194	123						4,300
11-14-68	9.0	95				3.0	7.6	104	180	53						2,400
11-15-68	9.0	60				2.6	7.6	102	160	54						930
11-16-68	10.0	60				2.5	7.7	100	160	50						4,300
11-17-68	9.0	70				2.6	7.7	106	154	45						9,300
11-18-68	9.0	80				3.9	7.2	110	140	54						4,300
11-19-68	9.0	100				3.5	7.3	116	148	46						240,000
11-20-68	9.0	200				3.7	7.5	110	150	48						24,000
11-21-68	8.0	235				6.5	7.5	110	156	50						46,000
11-22-68	7.0	155				4.1	7.3	110	170	50						15,000
11-23-68	7.0	100				4.5	7.4	108	180	48						9,300
11-24-68	7.0	90				2.3	7.3	104	162	52						4,300
11-25-68	8.0	100				3.4	8.2	110	160	46						15,000
11-26-68	7.0	50				2.0	7.8	104	146	45						24,000
11-27-68	8.0	85				2.6	7.4	106	144	58						2,100
11-28-68	7.0	45				1.5	7.5	100	176	54						750
11-29-68	8.0	85				2.7	7.7	106	182	60						2,800
11-30-68	7.0	75				3.3	7.6	105	152	46						110,000
Nov. Avg.	9.6	85				2.9	7.7	107	164	56						27,629
Max.	13.0	235				4.5	8.2	116	200	123						240,000
Min.	7.0	20				1.5	7.2	100	140	45						150

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-1-68	7.0	65				5.2	7.2	106			156		40			24,000
12-2-68	7.0	45				2.7	7.6	100			160		47			4,200
12-3-68	7.0	35		11.8	97	1.8	7.7	100			144		45			9,300
12-4-68	7.0	30				2.2	7.7	108			150		42			2,000
12-5-68	7.0	290				4.4	7.6	112			146		45			110,000
12-6-68	5.0	280				4.4	7.9	106			136		43			15,000
12-7-68	5.0	155				4.5	8.1	106			148		49			46,000
12-8-68	5.0	135				3.5	7.4	110			190		55			4,300
12-9-68	4.0	135				2.0	7.7	100			136		38			9,300
12-10-68	3.0	145				2.1	7.7	100			140		40			4,300
12-11-68	4.0	65				2.2	7.8	100			130		40			7,300
12-12-68	3.0	90				1.4	8.0	100			146		53			2,400
12-13-68	4.0	110				1.6	8.2	106			166		44			4,300
12-14-68	4.0	125				2.3	8.0	114			144		44			9,300
12-15-68	4.0	85				2.0	8.0	98			144		38			15,000
12-16-68	2.0	175				2.1	7.8	104			136		37			2,400
12-17-68	3.0	180				1.8	7.8	104			160		38			2,400
12-18-68	2.0	90				2.0	7.2	92			182		38			4,300
12-19-68	2.0	125				2.4	7.3	86			174		45			4,300
12-20-68	2.0	135				3.2	7.3	96			174		45			9,300
12-21-68	1.0	200				1.5	7.2	98			170		41			240,000
12-22-68	1.0	90				1.8		104			146		44			24,000
12-23-68	2.0	100				2.3	7.4	96			146		44			21,000
12-24-68	1.0	125				1.9	7.3	98			138		40			93,000
12-25-68	0.0	145				2.3	7.5	104			138		40			2,100
12-26-68	0.5	150				3.1	7.4	98			128		41			7,300
12-27-68	0.5	100				2.6	7.2	108			160		50			73
12-28-68	0.5	95				3.0	7.5	100			162		44			1,500
12-29-68	1.0	155				3.2	7.6	105			184		40			43,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg-l

Mentor-on-Lake - E2601

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-30-68	1.0	120					3.1	7.6	110		164		48			43,000
12-31-68	0.0	100					3.3	7.0	96		136		46			240,000
Dec. Avg.	3.1	130		11.8	97		2.6	7.6	102		153		43			32,399
Max.	7.0	290		11.8	97		5.2	8.2	114		190		55			240,000
Min.	0.0	30		11.8	97		1.4	7.2	86		130		37			73

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-1-68	20.0	10				4.7	7.9	89			150		31			430
7-2-68	20.0	10				3.6	8.0	96			160		30			4,600
7-3-68	20.0	20				3.2	8.1	96			166		31			11,000
7-4-68	21.1	10				2.9	8.2	98			170		49			73
7-5-68	21.1	5				2.8	8.4	96			146		31			430
7-6-68	21.1	5				3.3	8.4	98			150		40			11,000
7-7-68	21.1	5				2.9	8.4	94			160		62			11,000
7-8-68	20.0	5				2.5	8.3	95			152		35			930
7-9-68	21.1	5				2.5	8.5	95			140		33			930
7-10-68	21.1	5				2.8	8.3	93			160		30			2,900
7-11-68	20.6	5				3.2	7.7	94			216		109			1,500
7-12-68	20.0	5	370			3.7	7.9	98			160	25	60	0.85	0.50	210
7-13-68	20.0	5				3.1	7.9	94			160		60			930
7-14-68	20.0	5				2.8	7.9	96			144		33			1,500
7-15-68	20.0	5				2.2	8.3	93			150		38			2,100
7-16-68	22.2	5				2.0	8.3	98			152		32			230
7-17-68	22.8	5				2.1	8.5	94			138		36			210
7-18-68	22.8	5				2.2	8.5	94			138		38			2,400
7-19-68	23.3	20	355			2.2	8.5	92			150	20	37	0.10	0.05	4,300
7-20-68	23.3	20				2.7	7.9	84			132		41			110,000
7-21-68	23.3	5				2.9	8.0	86			146		50			4,300
7-22-68	23.3	5				2.9	8.5	94			154		61			9,300
7-23-68	23.3	5				2.7	8.4	92			148		49			150
7-24-68	23.3	5				2.7	8.3	94			178		25			4,300
7-25-68	23.3	5				2.9	8.4	93			144	6	42			4,300
7-26-68	23.3	5				2.1	8.1	94			166		65			430
7-27-68	23.3	5				2.3	8.0	88			176		94			2,900
7-28-68	23.3	5				2.8	8.2	84			162		80			24,000
7-29-68	23.3	10				2.6	8.5	97			134		44			930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli
7-30-68	22.8	10					2.8	8.3	93		154		25			2,100
7-31-68	22.8	5					2.4	8.5	92		152		39			2,400
July Avg.	21.8	7	363				2.8	8.2	93		166	17	46	0.48	0.28	7,154
Max.	23.3	20	370				4.7	8.5	98		216	50	109	0.55	0.50	110,000
Min.	20.0	5	355				2.0	7.7	84		132	6	25	0.10	0.05	73
8-1-68	23.3	5					2.2	8.5	95		148		33			2,100
8-2-68	23.3	5					2.3	8.5	93		168		64			930
8-3-68	23.3	5					2.5	8.6	96		160		98			930
8-4-68	23.3	5					2.1	8.3	95		164		81			930
8-5-68	23.3	5					2.3	7.4	94		174		72			430
8-6-68	23.3	5					2.0	8.6	93		148		50			430
8-7-68	23.3	5					2.0	8.4	96		154		34			930
8-8-68	23.3	5					1.8	8.6	99		150		35			1,500
8-9-68	24.4	5	282*				1.6	8.7	93		132	23	34	0.20	0.32	230
8-10-68	24.4	5					2.7	8.7	93		160		33			930
8-11-68	24.4	5					3.1	8.7	96		176		142			2,400
8-12-68	23.9	5					2.6	8.4	97		178		72			2,100
8-13-68	23.3	5					2.2	8.4	95		170		67			4,600
8-14-68	23.3	5					2.7	8.7	92		168		76			750
8-15-68	23.3	5					2.7	8.8	93		174		60			2,100
8-16-68	23.3	5					2.8	8.6	94		160	25	70	0.90	0.30	430
8-17-68	23.3	5					2.7	8.7	86		156		50			4,300
8-18-68	23.3	5					2.2	8.5	90		146		39			1,500
8-19-68	23.3	5					2.7	8.3	96		152		94			91
8-20-68	23.9	5					2.6	8.6	97		146		40			9,300
8-21-68	23.9	5					2.1	8.8	93		150		31			91

* Conductivity composite Aug. 3-9 (7 samples)

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-22-68	23.9	5			2.4	8.7	98	188	32	0.18	0.20	91				
8-23-68	23.9	5			2.4	8.7	95	140	35	0.18	0.20	230				
8-24-68	23.9	5			3.6	8.6	94	152	28	0.18	0.20	430				
8-25-68	24.4	15			3.9	8.2	92	128	42	0.18	0.20	750				
8-26-68	24.4	90			3.5	8.1	97	140	39	0.18	0.20	46,000				
8-27-68	24.4	10			3.1	8.6	97	174	74	0.18	0.20	2,100				
8-28-68	23.9	5			3.1	8.7	92	160	37	0.18	0.20	750				
8-29-68	23.9	10			2.9	8.7	92	152	56	0.18	0.20	91				
8-30-68	23.3	5	419		2.8	8.8	96	162	55	0.18	0.20	36				
8-31-68	23.3	5			3.0	8.7	100	188	85	0.18	0.20	36				
Aug. Avg.	23.7	8	299		2.6	8.5	94	159	25	0.49	0.46	2,916				
Max.	24.4	90	419		3.9	8.8	100	188	32	0.90	1.00	46,000				
Min.	23.3	5	--		1.6	7.4	86	128	21	0.18	0.20	36				
9-1-68	23.3	5			2.8	8.6	95	172	68	0.26	0.65	430				
9-2-68	23.3	5			2.6	8.6	97	140	59	0.26	0.65	91				
9-3-68	21.1	5			2.5	8.6	94	162	60	0.26	0.65	2,100				
9-4-68	22.2	5			2.2	8.8	95	148	41	0.26	0.65	930				
9-5-68	22.2	5			2.6	8.8	94	142	44	0.26	0.65	2,100				
9-6-68	22.2	5	258		2.3	8.8	97	146	50	0.26	0.65	9,300				
9-7-68	22.2	15			2.7	8.8	90	158	38	0.26	0.65	2,300				
9-8-68	21.1	5			2.1	8.4	93	144	39	0.26	0.65	360				
9-9-68	22.2	5			2.8	8.4	100	170	75	0.26	0.65	91				
9-10-68	22.2	5			1.9	8.8	95	174	73	0.26	0.65	360				
9-11-68	21.7	5			2.6	8.8	97	160	55	0.26	0.65	4,300				
9-12-68	21.1	10			2.1	8.5	95	188	89	0.26	0.65	430				
9-13-68	21.1	5	410		1.9	8.6	97	164	54	0.18	0.40	91				
9-14-68	21.1	5			2.4	8.6	101	140	42	0.18	0.40	1,500				

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-15-68	21.1	5				2.0	8.5	95			146		36			390
9-16-68	21.1	5				2.2	8.6	95			158		49			4,600
9-17-68	21.1	5				2.3	8.7	97			146		45			390
9-18-68	20.0	5				1.7	8.8	98			156		44			430
9-19-68	20.0	5				2.4	8.7	96			174		85			230
9-20-68	20.0	5	453			2.3	8.3	96		283	190	18	79	0.10	0.25	460
9-21-68	20.0	5				2.1	8.0	92			144		81			460
9-22-68	21.1	5				2.4	8.0	92			128		64			11,000
9-23-68	21.1	5				2.0	8.7	98			162		53			750
9-24-68	21.1	5				2.0	8.8	94			164		43			2,300
9-25-68	21.1	5				2.3	8.5	96			154		34			9,300
9-26-68	21.1	10				2.1	8.4	95			158		29			2,300
9-27-68	20.6	5	254			2.3	8.8	97		159	152	21	41	0.18	0.50	360
9-28-68	20.6	10				2.5	8.8	98			160		36			360
9-29-68	20.6	5				3.0	8.8	96			130		38			930
9-30-68	20.6	50				2.8	8.3	97		158			37			36
Sept. Avg.	21.3	7	344			2.3	8.6	96		203	151	24	53	0.18	0.45	1,956
Max.	23.3	50	453			3.0	8.8	101		283	190	37	89	0.26	0.65	11,000
Min.	20.0	5	254			1.7	8.0	90		158	128	18	29	0.10	0.25	36
10-1-68	20.0	10				3.5	8.6	98			148		39			2,100
10-2-68	20.0	5				3.3	8.4	98			140		37			360
10-3-68	20.0	40				3.7	8.2	104			154		36			910
10-4-68	19.4	160				4.4	8.1	97			166		37			24,000
10-5-68	19.4	160				4.9	7.9	98			164		35			9,300
10-6-68	17.2	110				4.1	7.9	98			158		35			4,300
10-7-68	15.0	110				3.2	8.0	99			150		32			9,300
10-8-68	15.6	20				1.9	8.0	99			144		30			4,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-9-68	15.6	15				2.4	8.1	96			150		30			4,300
10-10-68	15.6	10				2.0	7.9	98			144		30			2,300
10-11-68	15.6	10	310			2.1	7.9	99		194	134	18	32	0.26	0.60	2,300
10-12-68	16.1	10				2.3	7.9	96			150		30			2,300
10-13-68	16.7	10				2.3	8.4	96			154		26			910
10-14-68	17.2	5				2.5	8.1	99			140		35			300
10-15-68	17.2	5				2.8	8.4	97			134		31			150
10-16-68	16.7	5				1.7	8.4	99			146		28			2,400
10-17-68	16.7	5				2.0	8.5	99		218	156		29			1,500
10-18-68	17.2	5	348			2.1	8.5	99			130	17	28	0.49	0	730
10-19-68	16.7	5				2.5	8.6	82			142		32			1,500
10-20-68	16.1	5				3.0	8.4	92			140		30			24,000
10-21-68	15.6	20		7.6	76	2.1	8.3	99			148		33			730
10-22-68	15.6	15		7.6	76	2.9	8.2	100			130		32			390
10-23-68	15.6	170		7.7	77	4.1	8.3	99			158		29			9,300
10-24-68	15.6	60		7.7	77	3.4	8.0	102			154		30			4,600
10-25-68	15.0	20	395	7.8	77	3.2	8.3	99		247	168	26	36	0.50	0.42	4,300
10-26-68	13.3	120		8.0	76	2.6	8.2	98			154		30			15,000
10-27-68	13.3	60				1.9	8.2	98			150		28			46,000
10-28-68	13.3	170		8.0	76	2.8	8.1	99			166		29			15,000
10-29-68	12.2	98		8.5	78	4.4	8.0	98			158		32			46,000
10-30-68	12.2	140		8.7	80	3.4	8.1	99			146		36			9,300
10-31-68	11.1	120		8.0	73	3.0	8.0	98			158		36			4,300
Oct. Avg.	16.0	55	351	8.0	77	2.9	8.2	98		220	149	20	32	0.42	0.34	8,135
Max.	20.0	170	395	8.7	80	4.9	8.6	104		247	168	26	39	0.50	0.60	46,000
Min.	11.1	5	310	7.6	73	1.7	7.9	82		194	130	17	26	0.26	0	150
11-1-68	11.1	30	326	8.3	75	2.0	8.0	100		204	158	23	35	0.31	0.75	4,300
11-2-68	12.2	50				1.7	8.4	98			146		25			4,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	12.8	30				2.0	8.4	96			150		26			2,000
11-4-68	13.3	10		8.0	76	1.9	8.1	98			146		29			2,300
11-5-68	12.2	10		8.1	75	1.9	8.0	96			180		65			910
11-6-68	13.3	10		8.1	77	1.6	8.0	92			188		72			1,500
11-7-68	13.3	10				1.9	8.0	90			192		62			
11-8-68	13.3	20	366	8.5	80	1.8	8.4	98		229	198	24	72	0.60	0.40	2,300
11-9-68	12.2	60				2.2	8.4	104			172		54			910
11-10-68	11.1	50				2.2	8.4	97			164		32			9,300
11-11-68	10.6	40				2.8	8.0	104			164		36			9,300
11-12-68	11.1	30		8.5	77	2.7	7.9	98			146		36			4,300
11-13-68	8.9	150		9.3	80	2.6	8.0	96			180		77			2,300
11-14-68	7.8	90		9.2	76	2.9	8.0	97			190		58			2,300
11-15-68	7.8	20	387	9.0	75	3.2	7.9	97		242	168	32	54	0.82	0.25	1,500
11-16-68	7.8	80				2.6	8.0	98			140		42			
11-17-68	7.8	40				3.3	8.2	90			148		48			910
11-18-68	10.0	140		8.6	75	3.3	8.0	99			158		30			9,300
11-19-68	8.9	140		9.3	80	4.6	7.9	95			166		26			24,000
11-20-68	7.8	230		9.5	79	6.3	8.1	98			148		38			24,000
11-21-68	7.2	250		9.6	79	6.3	7.9	100			156		39			9,300
11-22-68	7.2	250	298	9.5	78	7.4	7.9	102		186	148	27	41	1.88	3.25	9,300
11-23-68	7.8	175				5.1	8.0	100			152		37			24,000
11-24-68	7.8	170				4.8	7.9	102			150		51			43,000
11-25-68	7.2	120		9.5	78	3.9	7.9	95			168		36			4,300
11-26-68	6.7	50		9.5	76	2.9	7.9	99			148		29			4,300
11-27-68	7.8	80	331	9.8	81	3.0	7.9	94		207	140	23	25	0.62	1.40	9,300
11-28-68	7.8	100				2.4	8.0	95			140		22			2,300
11-29-68	8.3	100				3.5	7.9	89			144		26			9,300
11-30-68	8.3	200				4.0	8.0	90			156		27			9,300

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.6	90	341	9.0	77	3.2	8.0	8.0	97	213	160	26	42	0.85	1.21	8,219
Max.	13.3	250	387	9.8	81	7.4	8.4	8.4	104	242	198	32	77	1.88	0.25	43,000
Min.	6.7	10	298	8.0	75	1.7	7.9	7.9	89	186	140	23	22	0.31	3.25	910
12-1-68	7.8	200					7.8	7.8	90		140		29			2,300
12-2-68	7.8	140		9.6	80		7.9	7.9	93		164		33			15,000
12-3-68	7.8	60		9.6	80		7.9	7.9	94		148		27			2,300
12-4-68	7.8	40		9.6	80		8.0	8.0	93		146		30			4,300
12-5-68	7.8	160		9.8	81		7.9	7.9	96		168		33			46,000
12-6-68	6.1	400		10.1	81		7.9	7.9	97		178		36			24,000
12-7-68	6.1	200					7.9	7.9	103		164		38			240,000
12-8-68	5.6	200					8.0	8.0	94		160		33			24,000
12-9-68	5.6	130		10.3	82		7.9	7.9	93		130		25			9,300
12-10-68	3.3	70		10.2	76		8.0	8.0	93		180		34			4,300
12-11-68	3.3	120					7.9	7.9	94		170		37			910
12-12-68	3.3	90		10.3	77		7.9	7.9	92		152		35			4,300
12-13-68	3.3	120	393	10.6	79		7.9	7.9	92	246	152	17	28	0.15	0.14	2,300
12-14-68	3.3	120					7.8	7.8	90		124		38			9,300
12-15-68	2.2	120					8.0	8.0	92		128		36			240,000
12-16-68	2.2	250		11.2	81		7.9	7.9	96		144		26			2,300
12-17-68	2.2	160		11.1	81		7.9	7.9	91		132		24			7,500
12-18-68	2.2	100		11.1	81		7.9	7.9	93		156		30			4,300
12-19-68	2.2	100				1.5	7.9	7.9	100		156		28			9,300
12-20-68	2.2	120				3.4	7.9	7.9	92		160		29			15,000
12-21-68	2.2	120	339			3.3	7.9	7.9	94	212	162	22	25	0.62	0.50	240,000
12-22-68	2.2	140				2.2	7.9	7.9	94		130		28			110,000
12-23-68	2.2	110				3.9	7.6	7.6	97		140		24			9,300
12-24-68	1.7	220				4.0	7.4	7.4	97		146		22			46,000
12-25-68	1.7	210				5.2	7.8	7.8	98		150		28			46,000
12-26-68	1.1	250				8.7	7.8	7.8	94		150		27			9,390

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Painesville - F2718

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-27-68	1.1	200				4.0	7.6	91		188	160		21			4,300
12-28-68	1.1	200	301			3.9	7.9	89			142	18	34	0.55	1.25	2,300
12-29-68	1.7	250				4.6	7.8	85			140		28			110,000
12-30-68	1.7	100		15.0	107	3.6	7.9	94			152		30			46,000
12-31-68	1.1	180		15.0	106	4.6	7.8	84			136		39			46,000
Dec. Avg.	3.5	160	344	11.0	84	4.1	7.8	93		215	150	19	30	0.44	0.63	43,094
Max.	7.8	400	393	9.6	107	5.2	8.0	103		246	180	22	39	0.62	1.25	240,000
Min.	1.1	40	301	15.0	76	1.5	7.4	84		188	124	17	22	0.15	0.14	910

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	19.4	15				2.0	8.0	8.0	92		146					430
7-2-68	20.0	20				2.0	8.0	8.0	91		153					230
7-3-68	20.0	20				2.2	8.1	8.1	89		149					930
7-4-68	19.4	10				1.6	8.1	8.1	89		139					750
7-5-68	19.4	10				1.7	8.0	8.0	91		142					430
7-6-68	19.4	4				1.5	8.0	8.0	93		141					210
7-7-68	19.4	4				1.8	7.9	7.9	93		139					930
7-8-68	19.4	4				1.7	8.0	8.0	93		140					430
7-9-68	20.0	8				1.7	8.0	8.0	93		142					2,400
7-10-68	20.6	9				1.5	7.9	7.9	92		143					150
7-11-68	18.9	8				2.1	7.7	7.7	91		140					91
7-12-68	17.8	5				2.2	7.5	7.5	100		139					230
7-13-68	17.8	8				2.0	7.5	7.5	96		141					230
7-14-68	17.2	4				2.3	7.3	7.3	93		141					930
7-15-68	17.8	10				1.7	7.5	7.5	93		139					2,400
7-16-68	21.1	25				1.4	8.2	8.2	93		141					430
7-17-68	22.2	10				1.7	8.3	8.3	91		140					230
7-18-68	22.2	8				1.5	8.3	8.3	93		142					91
7-19-68	22.8	35				1.6	8.3	8.3	95		144					430
7-20-68	22.8	20				1.6	8.3	8.3	93		144					430
7-21-68	22.8	10				1.6	8.3	8.3	95		143					91
7-22-68	22.2	15				1.6	8.3	8.3	97		141					280
7-23-68	22.8	15				1.6	8.3	8.3	97		146					230
7-24-68	22.8	20				1.4	8.3	8.3	94		141					750
7-25-68	22.8	10				1.4	8.3	8.3	92		143					230
7-26-68	22.8	9				1.4	8.3	8.3	92		143					390
7-27-68	22.8	10				1.3	8.3	8.3	93		143					930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-28-68	22.8	25					1.5	8.3	94		145					230
7-29-68	22.8	45					1.4	8.3	95		147					95
7-30-68	22.8	20					1.5	8.3	91		149					91
7-31-68	22.8	15					1.4	8.3	91		130					430
July Avg.	20.9	15					1.7	8.1	93		142					521
Max.	22.8	45					2.3	8.3	100		153					2,400
Min.	17.2	4					1.4	7.3	89		130					91
8-1-68	22.8	20					1.3	8.3	92		150					430
8-2-68	22.8	10					1.4	8.3	93		153					1,500
8-3-68	22.8	9					1.4	8.3	93		151					430
8-4-68	22.8	15					1.5	8.3	96		155					150
8-5-68	22.8	10					1.4	8.3	94		149					390
8-6-68	22.8	20					1.5	8.3	94		151					750
8-7-68	23.9	10					1.4	8.3	95		159					930
8-8-68	23.9	7					1.5	8.3	93		156					210
8-9-68	24.4	8					1.6	8.3	89		163					930
8-10-68	25.0	15					1.8	8.3	88		162					2,400
8-11-68	23.9	40					1.8	8.2	89		165					4,600
8-12-68	23.9	10					1.6	8.3	91		161					930
8-13-68	23.3	9					1.8	8.3	94		156					750
8-14-68	23.3	9					1.5	8.3	95		157					230
8-15-68	23.3	7					1.8	8.3	94		153					2,100
8-16-68	23.3	8					1.6	8.3	95		149					4,600
8-17-68	23.9	15					1.7	8.3	93		150					4,600
8-18-68	23.3	15					1.8	8.3	94		152					750

TABLE 4. (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-19-68	23.3	9					1.8	8.3	94		147					930
8-20-68	23.3	25					1.9	8.3	93		147					2,400
8-21-68	23.9	10					1.8	8.3	95		158					430
8-22-68	23.9	8					1.9	8.4	92		165					390
8-23-68	24.4	7					1.9	8.4	95		164					930
8-24-68	25.6	5					1.8	8.4	92		152					230
8-25-68	25.6	50					2.1	8.4	94		149					750
8-26-68	24.4	90					3.2	8.4	92		156					2,400
8-27-68	23.3	55					2.6	8.4	91		155					2,100
8-28-68	22.8	25					2.3	8.4	95		148					2,400
8-29-68	22.8	40					1.6	8.4	93		144					930
8-30-68	22.8	15					1.9	8.4	93		146					430
8-31-68	22.2	8					1.7	8.4	89		142					1,500
Aug. Avg.	23.6	20					1.8	8.3	93		154					1,371
Max.	25.6	90					3.2	8.4	96		165					4,600
Min.	22.2	5					1.3	8.2	88		142					150
9-1-68	22.2	8					1.5	8.4	92		143					1,500
9-2-68	21.1	20					1.5	8.4	92		141					430
9-3-68	21.1	20					1.7	8.4	93		142					2,400
9-4-68	21.1	15					1.5	8.4	89		141					750
9-5-68	21.1	8					1.4	8.4	93		147					2,400
9-6-68	21.7	30					1.6	8.4	95		147					930
9-7-68	21.7	40					1.9	8.3	93		153					2,400
9-8-68	21.1	15					1.3	8.3	89		152					2,400
9-9-68	21.1	6					1.4	8.4	90		150					930
9-10-68	21.1	8					1.5	8.4	91		151					2,400
9-11-68	21.1	25					1.6	8.4	88		151					2,400

TABLE # (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-12-68	20.6	45					1.8	8.3	93		150					430
9-13-68	20.6	30					1.6	8.3	93		150					2,400
9-14-68	20.6	15					1.4	8.3	92		160					930
9-15-68	21.1	8					1.6	8.4	94		156					230
9-16-68	21.1	7					1.7	8.4	94		153					930
9-17-68	21.1	7					1.7	8.3	96		152					230
9-18-68	20.6	8					1.1	8.3	93		151					230
9-19-68	21.1	8					1.3	8.3	95		153					2,400
9-20-68	20.6	8					1.5	8.4	94		152					930
9-21-68	20.6	8					1.5	8.4	95		153					4,600
9-22-68	20.6	10					1.1	8.3	96		154					2,400
9-23-68	20.6	9					1.4	8.3	96		153					430
9-24-68	21.1	8					1.3	8.3	97		153					2,400
9-25-68	21.7	15					1.3	8.3	95		151					4,600
9-26-68	21.1	25					1.5	8.3	93		151					1,500
9-27-68	20.6	15					1.5	8.3	95		158					4,600
9-28-68	20.0	20					1.4	8.3	98		164					2,100
9-29-68	20.0	15					1.4	8.4	95		163					930
9-30-68	19.4	45					1.6	8.4	97		156					430
Sept. Avg.	20.9	15					1.5	8.3	94		152					1,721
Max.	22.2	45					1.1	8.4	98		163					4,600
Min.	19.4	6					1.9	8.3	88		141					230
10-1-68	19.4	30					1.5	8.3	97		159					930
10-2-68	19.4	20					1.7	8.3	96		153					2,400
10-3-68	19.4	40					1.9	8.3	93		153					750
10-4-68	18.3	130					3.4	8.3	96		153					2,400
10-5-68	16.7	115					2.8	8.2	93		149					11,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
10-6-68	16.1	70					2.5	8.0	93		145					4,600
10-7-68	16.7	60					2.3	8.1	93		143					4,600
10-8-68	16.7	35					1.7	8.1	95		143					930
10-9-68	16.7	35					1.7	8.1	97		141					2,400
10-10-68	16.7	25					1.5	8.0	94		143					2,400
10-11-68	16.1	20					1.6	8.1	95		142					2,400
10-12-68	15.6	15					1.4	8.0	96		142					930
10-13-68	16.1	9					1.4	8.1	96		143					2,400
10-14-68	16.1	9					1.4	8.1	95		143					930
10-15-68	16.7	8					1.3	8.2	97		142					1,500
10-16-68	16.7	7					1.2	8.2	94		146					930
10-17-68	16.7	8					1.3	8.1	94		143					930
10-18-68	17.2	9					1.4	8.2	96		143					430
10-19-68	17.2	25					1.5	8.2	95		145					230
10-20-68	17.2	25					1.3	8.2	98		146					430
10-21-68	16.7	40					1.5	8.3	95		148					2,400
10-22-68	15.6	15					1.4	8.2	95		147					4,600
10-23-68	16.0	85					2.8	8.2	91		146					2,400
10-24-68	15.4	55					2.2	8.1	95		147					1,500
10-25-68	15.0	76					2.6	8.1	98		151					4,600
10-26-68	14.3	95					2.9	8.1	97		145					4,600
10-27-68	14.0	85					2.4	8.1	95		148					1,500
10-28-68	13.2	80					2.7	8.0	96		150					930
10-29-68	12.3	95					2.1	8.1	98		147					11,000
10-30-68	12.0	100					2.4	8.0	95		151					11,000
10-31-68	12.0	100					1.9	8.0	95		151					4,600
Oct. Avg.	16.1	50					1.9	8.1	95		147					2,989
Max.	17.2	130					3.4	8.3	98		159					11,000
Min.	12.0	7					1.2	8.0	91		141					230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-1-68	12.1	25					1.5	8.0	95		141					230
11-2-68	12.1	45					1.5	7.9	93		141					2,400
11-3-68	12.9	30					1.5	8.0	94		143					2,400
11-4-68	12.5	20					1.4	8.0	93		143					930
11-5-68	13.0	20					1.4	8.0	93		143					2,400
11-6-68	12.5	40					1.4	8.0	92		141					2,400
11-7-68	12.1	40					1.4	8.1	95		141					930
11-8-68	11.8	50					1.3	8.1	93		141					430
11-9-68	11.4	60					1.4	8.1	91		141					2,400
11-10-68	10.8	55					1.5	8.0	93		159					4,600
11-11-68	10.8	50					1.4	8.1	95		159					2,400
11-12-68	10.2	60					1.3	8.0	93		149					2,400
11-13-68	10.0	60					1.5	8.0	94		134					4,600
11-14-68	9.2	65					1.2	8.0	92		138					2,400
11-15-68	9.0	70					1.7	8.0	92		138					930
11-16-68	9.0	75					1.4	8.0	90		142					230
11-17-68	9.0	95					1.4	8.0	92		140					430
11-18-68	9.6	70					2.0	7.9	92		140					430
11-19-68	8.6	130					2.0	7.9	88		144					230
11-20-68	7.6	150					3.4	7.9	92		130					24,000
11-21-68	7.0	165					4.4	7.9	94		140					24,000
11-22-68	7.0	145					3.6	8.1	94		136					4,300
11-23-68	6.8	90					2.5	7.9	94		134					9,300
11-24-68	7.0	115					3.9	7.9	96		146					15,000
11-25-68	7.0	110					3.3	7.9	94		144					4,300
11-26-68	7.0	75					2.5	8.0	96		150					1,400
11-27-68	7.0	115					3.0	7.8	94		156					2,400
11-28-68	6.9	50					2.3	7.9	92		144					2,400
11-29-68	7.4	80					2.3	8.1	100		142					2,400
11-30-68	7.0	95					2.1	7.9	96		140					930

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/i

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.5	75				2.0	8.0	93			143					4,840
Max.	13.0	150				4.4	7.8	100			159					24,000
Min.	6.8	20				1.2	8.1	88			140					250
12-1-68	6.7	45				2.2	8.0	90			146					4,600
12-2-68	7.0	60				1.7	7.9	90			140					600
12-3-68	6.7	70				2.7	7.8	86			144					2,400
12-4-68	6.8	40				2.1	7.9	92			140					930
12-5-68	6.0	100				3.5	7.9	92			140					4,600
12-6-68	6.0	240				5.9	7.8	88			140					11,000
12-7-68	5.0	245				5.6	7.9	92			136					24,000
12-8-68	4.5	175				4.2	7.8	90			132					11,000
12-9-68	3.9	190				3.7	7.9	84			128					11,000
12-10-68	3.8	170				3.0	7.8	84			138					2,400
12-11-68	3.4	95				2.6	7.9	95			130					4,600
12-12-68	3.5	60				1.9	7.9	86			134					4,600
12-13-68	3.5	125				2.8	7.9	92			128					4,600
12-14-68	4.2	120				2.4	7.9	90			130					4,600
12-15-68	2.7	130				2.7	7.9	86			140					4,600
12-16-68	2.6	145				2.8	7.9	88			139					2,400
12-17-68	2.7					1.7	7.8	86			138					430
12-18-68	2.0	80				1.6	7.9	86			136					230
12-19-68	2.2	60				2.0	7.9	98			130					930
12-20-68	2.0	125				2.2	7.9	86			130					2,400
12-21-68	2.2	180				2.2	7.7	90			144					2,400
12-22-68	2.5	95				2.2	7.8	88			150					4,600
12-23-68	2.0	90				2.2	7.8	90			146					4,600
12-24-68	1.6	140				2.6	7.8	88			136					24,000
12-25-68	1.2	140				3.3	7.8	84			132					24,000

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Madison - G3001

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-26-68	1.1	115				2.9	7.8	86			128					4,300
12-27-68	1.1	95				2.1	7.8	84			132					9,300
12-28-68	1.5	115				1.8	7.8	88			128					4,300
12-29-68	1.2	110				2.9	7.9	82			164					4,300
12-30-68	1.4	200				3.2	7.7	76			140					46,000
12-31-68	1.4	155				2.4	7.7	80			136					9,300
Dec. Avg.	3.3	125				2.7	7.8	88			137					7,710
Max.	7.0	245				5.9	8.0	98			164					46,000
Min.	1.1	45				1.6	7.7	76			128					230

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-29-68	23.3	25		7.6	88	0.9	8.2	8.2	91	--	138	--	--	0.38	0	18
7-30-68	23.3	10		7.8	90	1.0	8.0	8.0	89	218	136	28	30	0.20	0	2
7-31-68	23.9	6		7.8	92	1.0	8.0	8.0	91	--	132	--	--	--	--	4
July Avg.	23.5	15		7.7	90	1.0	8.1	8.1	90	218	135	28	30	0.29	0	8
Max.	23.9	25		7.8	92	1.0	8.2	8.2	91	218	138	28	30	0.38	0	18
Min.	23.3	6		7.6	88	0.9	8.0	8.0	89	218	132	28	30	0.20	0	2
8-1-68	23.9	6		7.6	90	1.0	8.0	8.0	90		132					2
8-2-68	23.3	8		7.6	88	1.0	8.0	8.0	89		130					10
8-3-68	22.8	8		7.8	90	1.0	7.9	7.9	89		130					2
8-4-68	23.3	7		7.4	85	1.0	8.0	8.0	88		132					2
8-5-68	23.3	10		7.8	90	1.0	8.1	8.1	88		138					8
8-6-68	24.4	15		7.6	90	0.9	8.1	8.1	88		134					29
8-7-68	24.4	10		7.8	93	0.9	8.1	8.1	87		140					4
8-8-68	24.4	7		7.6	90	0.9	8.1	8.1	86		134					14
8-9-68	24.4	5		7.8	92	1.0	8.2	8.2	86		136					32
8-10-68	25.0	5		8.0	95	1.1	8.1	8.1	88	232	136	24	36	0.32	0	2
8-11-68	25.0	6		7.8	93	0.9	8.1	8.1	88		138					22
8-12-68	24.4	7		7.2	85	1.0	8.1	8.1	87		138					6
8-13-68	23.9	4		7.4	87	1.0	8.2	8.2	89		144					11
8-14-68	23.9	8		7.6	89	0.9	8.2	8.2	87		140					2
8-15-68	24.4	6		7.6	90	1.0	8.1	8.1	88		140					2
8-16-68	23.3	5		7.2	83	1.0	8.1	8.1	89		134					4
8-17-68	24.4	5		8.0	95	0.9	8.3	8.3	89	240	134	19	39	0.06	0	11
8-18-68	24.4	3		7.2	85	1.0	8.2	8.2	87		134					6
8-19-68	23.6	7		7.6	88	0.9	8.3	8.3	87		138					8
8-20-68	23.8	10		7.4	86	0.9	8.2	8.2	87		138					4
8-21-68	24.4	9		7.4	88	0.9	8.2	8.2	87		140					4

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES.
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
8-22-68	24.4	8		7.0	83	1.0	8.2	86			142					9
8-23-68	25.0	3		7.2	85	0.8	8.3	86		250	130	19	33	0.10	0	360
8-24-68	25.5	5		7.2	86	0.8	8.1	86			150					340
8-25-68	26.6	5		7.1	88	1.0	8.1	82			150					8
8-26-68	25.6	30		7.4	90	1.0	8.1	80			150					26
8-27-68	24.4	15		7.6	90	1.1	8.2	82			148					29
8-28-68	24.4	10		7.4	88	1.0	8.3	82			148					42
8-29-68	23.9	10		7.4	87	1.1	8.3	83			146					20
8-30-68	22.2	15		7.6	87	1.0	8.5	85			146					16
8-31-68	23.3	10		7.0	81	1.1	8.5	84		228	146	23	35	0.02	0	40
Aug. Avg.	24.2	15		7.5	88	1.0	8.2	86		237	139	21	36	0.13	0	35
Max.	26.6	30		8.0	95	1.1	8.5	90		250	150	24	39	0.32	0	360
Min.	22.8	3		7.0	81	0.8	7.9	80		228	130	19	33	0.02	0	2
9-1-68	23.3	15		7.6	88	1.2	8.4	84			146					10
9-2-68	25.0	20		7.6	91	1.2	8.4	82			144					7
9-3-68	22.8	15		7.8	90	1.0	8.4	83			144					20
9-4-68	22.8	15		7.6	88	0.9	8.4	84			142					40
9-5-68	22.2	10		7.6	87	1.0	8.4	84								11
9-6-68	22.8	15		7.8	90	0.9	8.5	83		238	144	18	32	0.24	0	20
9-7-68	22.2	30		7.8	88	0.9	8.3	83			140					16
9-8-68	22.2	20		7.8	88	1.0	8.3	84			140					20
9-9-68	22.2	35		8.0	91	1.0	8.4	85			136					40
9-10-68	22.2	30		8.0	91	0.9	8.3	84			136					28
9-11-68	22.2	80		8.2	94	0.9	8.3	83			134					11
9-12-68	21.7	85		8.2	93	0.9	8.3	83			134					110
9-13-68	21.7	110		8.4	95	0.9	8.3	84			138	24	30	0.70	0	8
9-14-68	21.7	75		8.2	93	0.9	8.1	83			136					30

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
9-15-68	22.2	30		8.4	95	0.7	8.1	83			138					30
9-16-68	22.2	20		8.0	91	0.8	8.1	84			136					4
9-17-68	22.8	20		8.2	94	0.9	8.1	84			136					16
9-18-68	21.1	30		8.0	90	0.9	8.1	83			132					12
9-19-68	21.1	15		8.0	90	0.8	8.0	85		244	134	22	30	0.06	0	32
9-20-68	21.7	10		8.2	93	0.9	8.1	86			136					11
9-21-68	21.7	5		8.2	93	0.9	8.1	86			134					16
9-22-68	21.7	8		8.4	95	1.0	8.1	86			138					4
9-23-68	22.2	10		8.6	98	0.9	8.1	85			138					4
9-24-68	22.2	8		8.4	95	0.9	8.1	86			136					8
9-25-68	22.2	6		8.0	90	0.9	8.2	84			134					12
9-26-68	22.8	8		8.2	95	0.9	8.2	85		234	134	18	27	0.32	0	11
9-27-68	21.7	15		8.4	95	0.9	8.1	82			140					20
9-28-68	21.7	15		8.0	90	0.9	8.1	82			140					8
9-29-68	21.7	10		8.4	95	0.9	8.0	86			140					18
9-30-68	20.2	120		8.6	95	1.0	8.0	84			144					560
Sept. Avg.	22.1	30		8.1	92	0.9	8.2	84		239	138	20	30	0.33	0	38
Max.	25.0	120		8.6	98	1.2	8.4	86		244	146	24	32	0.70	0	560
Min.	20.2	6		7.6	87	0.7	8.0	82		234	132	18	27	0.06	0	4
10-1-68	20.6	130		8.0	90	0.9	8.0	85			144					360
10-2-68	20.0	95		8.2	90	0.7	8.0	86			146					560
10-3-68	20.6	110		8.2	91	0.6	8.1	85			146					240
10-4-68	18.9	200		8.2	97	0.6	8.1	86		232	144	24	32	0.32	0	170
10-5-68	17.8	150		8.0	84	0.6	8.1	85			150					1,060
10-6-68	20.0	60		8.0	90	0.5	8.1	90			146					1,115
10-7-68	17.8	30		7.8	80	0.5	8.1	92			146					190
10-8-68	17.8	25		8.0	82	0.5	8.1	92			146					375
10-9-68	17.8	20		8.2	85	0.5	8.0	93			148					55

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303																
Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-10-68	17.8	10		8.2	85	0.5	8.0		92		144					130
10-11-68	17.2	10		8.2	84	0.5	8.0		94	250	144	20	27	0.10	0	40
10-12-68	16.7	10		8.0	81	0.4	8.1		94		140					24
10-13-68	17.2	10		8.2	84	0.5	8.1		95		140					36
10-14-68	17.8	10		8.2	85	0.5	8.1		93		134					20
10-15-68	17.8	8		8.4	87	0.6	8.1		94		130					110
10-16-68	17.2	35		8.4	86	0.6	8.1		95		132					28
10-17-68	17.2	50		8.6	89	0.7	8.1		94	240	130	16	20	0.10	0	28
10-18-68	17.8	40		8.2	85	0.7	8.1		96		132					24
10-19-68	17.2	10		8.6	89	0.6	8.1		96		134					31
10-20-68	17.8	25		8.2	85	0.9	8.1		96		136					29
10-21-68	16.7	10		8.6	88	0.8	8.0		94		136					2,450
10-22-68	16.6	10		8.6	88	0.8	8.0		94		136	20	28	0.12	0	830
10-23-68	15.6	60		9.0	90	0.9	8.0		97		136					840
10-24-68	16.1	45		9.2	93	0.7	8.1		93		134					450
10-25-68	15.6	15		9.2	92	0.8	8.1		98		144					223
10-26-68	15.0	80		9.8	97	0.9	8.0		94	228	140	22	32	0.36	0	2,520
10-27-68	14.4	110		9.2	90	0.9	8.0		95		140					4,600
10-28-68	14.4	30		9.0	89	0.8	8.0		94		140					7,250
10-29-68	14.4	60		9.4	92	0.8	8.1		90		140					1,530
10-30-68	12.2	110		9.4	87	0.9	8.1		92		142					6,200
10-31-68	12.2	95		9.6	89	0.9	8.0		93		140					620
Oct. Avg.	17.0	54		8.6	88	0.7	8.1		92	237	140	20	28	0.20	0	1,027
Max.	20.6	200		9.8	97	0.9	8.1		98	250	150	24	32	0.36	0	7,250
Min.	12.2	8		7.8	80	0.4	8.0		85	228	130	16	20	0.10	0	20
11-1-68	12.8	20		9.6	90	0.7	8.0		94	248	138	17	24	0.36	0	335
11-2-68	12.8	45		9.6	90	0.7	7.9		94		138					1,250

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-3-68	13.3	40		9.6	91	0.6	7.9	96			142					400
11-4-68	14.4	70		9.6	94	0.7	7.9	96			144					1,575
11-5-68	13.3	30		9.8	93	0.7	7.8	95			140					655
11-6-68	13.9	20		10.0	96	0.6	7.7	95		248	140	15	27	0.27	0	320
11-7-68	14.4	20		10.0	98	0.7	7.9	94			142					220
11-8-68	14.4	25		10.0	98	0.6	8.0	95			140					280
11-9-68	14.4	20		9.8	96	0.7	8.0	94			138					510
11-10-68	12.2	20		9.8	90	0.7	7.9	93			138					1,240
11-11-68	12.2	20		10.0	92	0.6	7.9	94			138					56
11-12-68	12.2	25		9.8	90	0.6	8.0	97			142					675
11-13-68	10.0	35		10.0	88	0.6	8.0	97			144					310
11-14-68	8.9	30		10.8	94	0.6	7.9	96		222	138	20	27	0.29	0	350
11-15-68	8.9	20		10.4	90	0.7	7.9	92			142					130
11-16-68	8.9	25		10.4	90	0.7	7.9	93			138					137
11-17-68	8.9	15		10.2	87	0.7	7.9	85			136					165
11-18-68	8.9	30		10.6	91	0.7	7.9	95			140					165
11-19-68	8.9	40		10.8	94	0.7	7.9	96		218	136	12	28	0.34	0	385
11-20-68	7.8	125		11.0	93	0.8	7.9	93			144					1,950
11-21-68	7.8	290		10.6	89	0.8	7.9	95			150					17,900
11-22-68	7.8	120		10.8	90	0.8	7.9	96			136					11,600
11-23-68	7.8	95		10.8	90	0.8	7.9	95			144					7,450
11-24-68	7.2	95		11.0	91	0.7	7.9	95			140					900
11-25-68	8.9	120		11.2	96	0.8	7.9	96			140					8,000
11-26-68	7.8	100		11.0	92	0.8	7.9	94		228	142	16	30	0.22	0	2,350
11-27-68	7.8	80		11.4	96	0.7	7.9	94			138					3,450
11-28-68	7.8	90		11.4	96	0.7	7.9	93			138					520
11-29-68	7.8	75		11.6	98	0.7	7.9	93			136					1,275
11-30-68	7.8	75		11.4	96	0.7	7.9	92			142					1,080

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	10.3	60		10.4	93		0.7	7.9	94	233	140	16	27	0.30	0	2,188
Max.	14.4	290		11.6	98		0.8	8.0	97	248	150	20	30	0.36	0	17,900
Min.	7.2	15		9.6	87		0.6	7.7	85	218	136	12	24	0.22	0	56
12-1-68	6.7	60		11.2	91		0.7	7.9	92		138					550
12-2-68	6.7	75		11.4	93		0.8	7.9	93		140					220
12-3-68	6.7	95		11.0	90		0.8	7.9	95		140					1,900
12-4-68	7.2	80		11.4	95		0.8	7.9	95		144					4,200
12-5-68	6.7	220		11.6	95		0.9	7.9	96	288	140	18	30	0.45	0	6,700
12-6-68	6.7	140		11.4	93		0.8	7.9	98		136					6,700
12-7-68	5.6	350		11.8	94		0.9	7.9	96		144					20,000
12-8-68	4.4	330		12.0	93		0.7	7.9	96		144					12,200
12-9-68	4.4	150		11.6	89		0.7	7.9	97		138					5,600
12-10-68	4.4	110		11.4	87		0.7	7.9	98		138					1,530
12-11-68	3.9	60		11.6	89		0.6	7.9	98		136					1,200
12-12-68	3.9	40		11.4	87		0.6	7.9	97	264	140	16	26	0.18	0	850
12-13-68	3.3	65		11.6	86		0.7	7.9	96		144					1,775
12-14-68	3.3	50		11.8	87		0.6	7.9	97		144					3,700
12-15-68	3.3	75		12.2	91		0.7	7.9	96		136					1,675
12-16-68	2.2	140		12.2	89		0.7	7.9	96		136					1,515
12-17-68	2.2	120		12.0	87		0.7	7.9	94		142					2,050
12-18-68	2.2	100		12.8	93		0.7	7.9	97		140					1,150
12-19-68	1.7	90		12.4	89		0.6	7.9	95		140					2,425
12-20-68	1.7	120		12.4	89		0.6	7.9	96	254	140	15	28	0.34	0	3,250
12-21-68	1.7	280		12.4	89		0.7	7.9	97		148					5,700
12-22-68	1.7	170		13.4	97		0.7	7.9	95		142					680
12-23-68	2.2	120		13.2	94		0.6	7.9	95		140					725
12-24-68	2.2	140		12.8	93		0.7	7.9	95		138					1,500

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Ashtabula - G3303

Date	T	TB	Cond.	DO	% Sat.	Cl. Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
12-25-68	1.1	190		13.0	92	0.7	7.9	96		136					5,900
12-26-68	1.1	100		13.2	93	0.7	7.9	95		134					4,600
12-27-68	1.1	130		12.8	91	0.7	7.9	94	232	134	13	32	0.42	0	1,200
12-28-68	2.2	110		13.0	95	0.7	7.9	92		124					2,275
12-29-68	1.1	220		13.2	93	0.8	7.7	91		126					7,900
12-30-68	1.1	270		13.6	97	0.8	7.8	90		136					3,750
12-31-68	1.1	80		13.6	97	0.8	7.8	90		130					400
Dec. Avg.	3.3	140		12.2	91	0.7	7.9	95	259	138	15	29	0.35	0	3,671
Max.	7.2	350		13.4	97	0.9	7.9	98	288	148	18	32	0.45	0	20,000
Min.	1.1	80		11.0	86	0.6	7.7	90	232	124	13	26	0.18	0	220

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
7-1-68	19.0	20				0.7	7.6	85								460
7-2-68	19.0	6			0.9	7.7	89									210
7-3-68	19.0	8			1.1	7.6	95									75
7-4-68	20.0	6			0.9	7.6	89									93
7-5-68	20.0	8			0.9	7.7	92									75
7-6-68	20.0	4			0.8	7.6	87									23
7-7-68	20.0	4			0.8	7.6	90									9
7-8-68	20.0	4	200	16.6	180	0.8	7.6	90			.006	.002				9
7-9-68	20.0	4	720	11.0	120	0.5	7.6	92								75
7-10-68	20.0	6				0.7	7.7	90								15
7-11-68	20.0	3				0.7	7.7	90								35
7-12-68	20.0		280	9.0	97	0.5	7.6	91								15
7-13-68	20.0	4	290	8.3	90	0.7	7.6	91								9
7-14-68	21.0	3	310	11.0	121	0.8	7.7	98								23
7-15-68	21.0	4	380	11.4	126	0.7	7.7	97						.006	.020	43
7-16-68	21.0	8	420	12.0	133	0.6	7.7	90								75
7-17-68	21.0	4		8.7	97	0.5	7.7	94				24		0	0	75
7-18-68	24.0	4	350	8.8	103	0.6	7.7	90								210
7-19-68	24.0	40	220	16.0	188	0.7	7.7	91								23
7-20-68	24.0	6	290	10.0	118	0.7	7.7	100								64
7-21-68	24.0	4	320	10.0	118	0.8	7.7	92								43
7-22-68	23.0	6	340	9.2	105	0.6	7.7	95						.010	.013	93
7-23-68	24.0	4	340	9.4	110	0.7	7.6	92								75
7-24-68	23.0	4	280	9.5	110	0.7	7.7	92								43
7-25-68	23.0	4	280	8.6	99	0.9	7.7	92								75
7-26-68	24.0	4	240	9.4	110	0.9	7.7	95								150
7-27-68	24.0	4	380	10.2	120	0.9	7.7	94								75
7-28-68	24.0	6	410	9.7	114	0.9	7.7	94						.008	.009	150

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
7-29-68	24.0	4	420	9.2	108	0.6	7.6	7.6	93		128					43
7-30-68	23.0	4	420	8.5	107	0.4	7.7	7.7	85		128					39
7-31-68	23.0	6		8.2	95	0.4	7.7	7.7	95		130	16	29	.080	.020	9
July Avg.	21.6	6	344	10.2	117	0.7	7.7	7.7	92		129	20	29	.018	.011	78
Max.	24.0	40	720	16.6	188	1.1	7.7	7.7	100		130	24	29	.080	.020	460
Min.	19.0	3	200	8.2	90	0.4	7.6	7.6	85		128	16	29	.000	.000	9
8-1-68	23.0	6		8.9	102	0.6	7.6	7.6	97		130					11
8-2-68	23.0	4		8.2	95	0.6	7.7	7.7	100		130					20
8-3-68	23.3	4		9.0	105	0.6	7.7	7.7	95		130					7
8-4-68	23.8	4		10.2	119	0.7	7.7	7.7	97		130					14
8-5-68	24.0	4		10.0	116	0.7	7.7	7.7	92		130		31			9
8-6-68	23.8	4		9.0	105	0.6	7.7	7.7	90		130					15
8-7-68	24.0	4		8.8	103	0.6	7.7	7.7	94		130					210
8-8-68	24.0	4		8.8	103	0.7	7.7	7.7	93		130	29	35	0	0	2,400
8-9-68	25.0	4		9.2	109	0.6	7.7	7.7	98		130			0.008	0.009	20
8-10-68	25.0	6		9.0	106	0.7	7.6	7.6	91		130	19				43
8-11-68	24.4	6		8.4	100	0.9	7.7	7.7	94		130					75
8-12-68	23.8	6		8.8	102	1.0	7.7	7.7	95		130					9
8-13-68	23.8	4		10.3	120	0.8	7.7	7.7	100		130					93
8-14-68	23.8	4		9.3	108	0.8	7.7	7.7	97		130					7
8-15-68	23.3	4		7.7	90	0.7	7.7	7.7	100		130	19		0	0	7
8-16-68	23.3	6		8.4	98	0.9	7.7	7.7	101		130		29			23
8-17-68	24.4	8		9.0	106	0.9	7.7	7.7	97		130	27				24
8-18-68	23.3	8		8.6	100	1.3	7.7	7.7	100		130					150
8-19-68	23.3	6		7.6	89	1.1	7.7	7.7	97		130					11
8-20-68	23.3	8		7/8	90	1.1	7.7	7.7	100		130					75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
8-21-68	24.4	6		7.6	90	1.2	7.7	97			130	26				9
8-22-68	24.4	6		7.5	89	1.5	7.7	96			130	39				39
8-23-68	25.5			8.5	103	1.7	7.7	96			130					64
8-24-68	25.5	8		7.9	95	1.1	7.7	102			130					9
8-25-68	25.5	16		7.5	90	1.1	7.7	95			130					20
8-26-68	24.4	30		6.5	76	1.3	7.7	96			130	29		0.02	0.12	150
8-27-68	24.4	30		7.0	83	0.7	7.7	96			130					14
8-28-68	24.4	6		8.7	103	0.8	7.7	91			130					120
8-29-68	22.8	4		8.7	99	0.8	7.7	96			130					20
8-30-68	22.8	11		7.0	80	1.4	7.7	98			130					35
8-31-68	22.2	6		9.8	110	1.2	7.7	98			130					11
Aug. Avg. Max. Min.	23.9	7		8.5	99	.9	7.7	96			130	27	32	0.014	0.065	120
	25.0	30		10.3	120	1.7	7.7	101			130	39	35	0.02	0.12	2.400
	22.2	4		6.5	76	.6	7.6	90			130	19	29	0.00	0.00	7
9-1-68	22.2	6		8.5	97	1.3	7.7	97			130					9
9-2-68	22.2	6		8.6	98	1.3	7.7	97			130					75
9-3-68	22.2	6		10.6	120	1.1	7.7	95			130	39		0.013	0.013	11
9-4-68	22.2	10		8.6	98	1.1	7.7	96			130					11
9-5-68	22.2	4		7.9	90	1.2	7.7	95			130					64
9-6-68	22.2	30		7.3	83	1.0	7.7	98			130					210
9-7-68	22.2	30		8.8	100	1.4	7.7	98			130					75
9-8-68	22.2	6		6.8	77	1.3	7.7	95			130					9
9-9-68	21.6	6		6.7	75	1.1	7.7	100			130					7
9-10-68	21.6	4		8.1	90	1.1	7.7	100			130	14		0.02	0.09	15
9-11-68	21.6	4		7.7	87	1.1	7.6	100			130					75
9-12-68	20.0	8		8.0	87	1.9	7.6	100			130					75

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
9-13-68	20.0	8		7.5	81	1.0	7.6	7.6	99		130		38			27
9-14-68	21.6	8		7.8	88	1.4	7.7	7.7	98		130					75
9-15-68	21.6	8		7.5	84	1.2	7.7	7.7	105		130	29		0.06	0.09	240
9-16-68	21.6	8		7.0	79	1.0	7.7	7.7	104		130					7
9-17-68	21.1	3		8.0	90		7.7	7.7	98		130					7
9-18-68	21.1	4		7.8	88	1.0	7.2	7.2	99		130					210
9-19-68	20.0	11		7.8	85	1.0	7.7	7.7	100		130	18	36	0.008	0.03	2,400
9-20-68	20.0	8		5.0	54	1.0	7.7	7.7	101		130					23
9-21-68	20.0	4		8.7	95	1.1	7.7	7.7	100		130					23
9-22-68	21.6	4		9.2	103	1.4	7.6	7.6	100		130					9
9-23-68	21.6	4		10.2	114	0.9	7.7	7.7	101		124					11
9-24-68	22.2	6		11.0	125	1.0	7.7	7.7	102		124					35
9-25-68	22.2	6		10.5	120	1.0	7.6	7.6	100		130					9
9-26-68	21.1	20		9.8	109	0.9	7.6	7.6	100		130					93
9-27-68	20.0	6		10.2	110	1.1	7.6	7.6	101		128					120
9-28-68	20.0	8		9.7	105	1.2	7.7	7.7	101		128					9
9-29-68	20.0	6		11.0	120	1.8	7.7	7.7	105		128	24	37	0.012	0.02	3
9-30-68	20.0	40		10.9	118	1.1	7.7	7.7	100		128					311
Sept. Avg.	21.3	9		8.6	96	1.2	7.7	7.7	99		129	25	37	0.022	0.05	142
Max.	22.2	40		11.0	125	1.9	7.7	7.7	105		130	39	38	0.060	0.09	311
Min.	20.0	3		6.7	54	0.9	7.2	7.2	95		124	14	36	0.008	0.01	3
10-1-68	20.0	30		9.0	99	0.8	7.7	7.7	101		128					20
10-2-68	19.4	8		10.4	110	1.3	7.7	7.7	100		128					11
10-3-68	19.4	13		10.4	110	0.9	7.7	7.7	101		128					15
10-4-68	17.2	40		10.3	106	1.1	7.7	7.7	100		128					460
10-5-68	16.6	20		11.2	114	1.5	7.8	7.8	100		128	27	43	0.02	0.05	93
10-6-68	16.6	10		11.0	111	1.5	7.7	7.7	100		128					150

TABLE # (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
10-7-68	16.6	8		10.5	106	1.1	7.7	100	128							27
10-8-68	16.6	4		11.3	115	1.1	7.7	100	128							9
10-9-68	16.1	6		12.0	120	1.1	7.7	100	128							23
10-10-68	16.1	6		11.7	117	1.0	7.7	101	128							9
10-11-68	15.5	6		9.7	96	1.0	7.6	102	128							7
10-12-68	16.1	6		12.3	124	1.3	7.7	100	128							9
10-13-68	16.1	6		11.0	110	1.0	7.7	102	128							9
10-14-68	16.1	4		11.2	113	0.9	7.7	104	128							15
10-15-68	16.1	4		12.0	120	0.9	7.7	105	128							9
10-16-68	16.6	4		12.3	125	0.8	7.6	103	128							7
10-17-68	17.2	4		11.5	119	1.0	7.7	105	130							7
10-18-68	17.2	4		9.5	98	1.1	7.7	102	130							93
10-19-68	17.2	8		10.8	110	1.1	7.7	102	130							240
10-20-68	17.2	8		10.8	110	0.9	7.7	102	130							43
10-21-68	16.1	10		10.3	104	1.0	7.6	100	130							460
10-22-68	15.5	6	370	11.4	114	0.9	7.7	100	130							460
10-23-68	16.1	10	410	11.3	114	0.9	7.6	101	130							2,400
10-24-68	15.0	6	410	10.5	103	1.1	7.6	100	130							1,100
10-25-68	15.5	30	370	9.3	93	1.2	7.7	102	130							240
10-26-68	15.0	30	210	12.5	123	1.4	7.7	100	130							1,100
10-27-68	15.0	20	340	12.7	125	1.7	7.6	100	130							2,400
10-28-68	14.4	30	210	12.5	121	1.1	7.7	102	130							2,400
10-29-68	12.2	30	320	10.5	96	1.0	7.6	102	130							2,400
10-30-68	11.6	13	500	13.0	119	1.1	7.6	100	130							2,400
10-31-68	10.5	10	250	12.5	111	1.0	7.6	100	130							2,400
Oct. Avg.	16.0	13	339	11.1	111	1.1	7.7	101	129							613
Max.	20.0	40	500	13.0	125	1.7	7.8	105	130							2,400
Min.	10.5	4	210	9.0	93	0.8	7.6	100	128							7

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
11-1-68	11.6	20	290	11.5	105	1.1	7.6	100	130							1,100
11-2-68	12.7	20	290	12.7	119	1.1	7.6	100	130							1,100
11-3-68	12.7	30	420	11.3	106	1.2	7.6	100	130							1,100
11-4-68	12.2	6	380	12.0	111	1.0	7.6	98	130							460
11-5-68	12.2	4	380	11.3	115	0.8	7.6	99	130			29	32	0.02	0.03	1,100
11-6-68	11.6	8	480	13.7	125	0.9	7.7	99	130							1,100
11-7-68	11.6	10	390	13.5	123	1.0	7.7	100	130							460
11-8-68	11.1	20	320	11.5	104	1.0	7.7	102	130							240
11-9-68	11.1	30	300	11.0	100	0.9	7.6	98	130							1,100
11-10-68	11.1	8	320	10.8	107	1.3	7.7	100	130			21	30	0.02	0.04	240
11-11-68	11.1	4	310	11.1	101	1.1	7.6	101	130							460
11-12-68	9.4	40	350	12.7	110	0.9	7.6	102	130							1,100
11-13-68	8.3	15	260	15.8	134	0.9	7.6	102	130							1,100
11-14-68	8.3	15	240	15.4	131	0.9	7.6	103	130							460
11-15-68	8.8	20	270	15.3	132	0.9	7.6	98	130							210
11-16-68	8.3	30	320	12.9	109	1.0	7.6	95	130			34	23	0.03	0.07	2,400
11-17-68	8.3	10	290	12.5	106	1.1	7.7	99	130							1,100
11-18-68	8.3	10	360	15.3	130	0.6	7.7	98	130							2,400
11-19-68	8.3	40	320	11.0	94	0.8	7.6	98	130							460
11-20-68	8.3	35	320	12.2	104	1.0	7.6	95	128							2,400
11-21-68	6.1	30	300	16.0	129	0.9	7.6	98	128							1,100
11-22-68	6.1	40	300	16.0	129	1.0	7.6	98	128			26	36	0.08	0.02	2,400
11-23-68	6.1	40	290	12.2	98	1.1	7.6	100	128							2,400
11-24-68	6.1	50	320	14.0	112	1.2	7.6	100	128							2,400
11-25-68	6.6	40	310	12.5	102	1.1	7.6	98	128							1,100
11-26-68	6.6	30	290	15.1	123	1.0	7.6	97	128							460
11-27-68	6.6	40	360	15.5	126	1.0	7.6	98	128							2,400
11-28-68	6.6	35	250	15.7	128	1.4	7.6	98	128							2,400
11-29-68	6.6	40	280	12.7	103		7.6	98	128							2,400
11-30-68	6.6	40	340	12.9	104		7.6	98	128			30	32	0.03	0.04	1,100

TABLE 4 (Continued)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coli.
Nov. Avg.	9.0	25	322	13.2	114	1.0	7.6	7.6	99		129	28	31	0.04	0.04	1,275
Max.	12.7	40	480	16.0	134	1.4	7.7	7.7	103		130	34	36	0.08	0.07	2,400
Min.	6.1	4	260	10.8	94	0.6	7.6	7.6	97		128	21	23	0.02	0.02	210
12-1-68	6.1	8	330	12.4	99	1.3	7.6	7.6	87		128					1,100
12-2-68	6.6	15	200	12.4	100	0.8	7.6	7.6	91		128					2,400
12-3-68	6.6	15	240				7.7	7.7	90		128					2,400
12-4-68	6.6	20	250	15.7	126	1.3	7.6	7.6	100		128					150
12-5-68	4.0	30	260	15.5	117		7.6	7.6	98		128					2,400
12-6-68	3.4	60	280	14.8	110	1.0			92		128	26	34	0.02	0.03	2,400
12-7-68	3.4	60	300	15.1	113		7.6	7.6	88		128					2,400
12-8-68	3.4	50	280	14.9	111		7.6	7.6	93		128					1,100
12-9-68	3.0	40	320	14.5	107	1.4	7.6	7.6	92		128					2,400
12-10-68	3.0	40	310	14.0	104	0.8	7.6	7.6	92		128					2,400
12-11-68	2.8	30	240	13.6	100	0.7	7.6	7.6	97		128					1,100
12-12-68	2.2	50	240	13.8	100	0.8	7.6	7.6	95		128					2,400
12-13-68	2.2	60	280	13.5	99	1.0	7.6	7.6	93		128					1,100
12-14-68	2.2	60		14.1	103	0.8	7.6	7.6	90		128	34	32	0.02	0.03	2,400
12-15-68	2.2	60	330			1.0	7.6	7.6	93		128					1,100
12-16-68	2.2	60	320	13.8	100	0.8	7.6	7.6	93		128					460
12-17-68	1.7	60	310	13.6	98	0.7	7.6	7.6	92		128					460
12-18-68	1.1	60	240	13.6	96	0.7	7.6	7.6	95		128					240
12-19-68	1.1	50	240	13.8	98	0.8	7.5	7.5	97		134					1,100
12-20-68	1.1	60	260	13.8	98	0.6	7.6	7.6	93		130	28	32	0.02	0.02	460
12-21-68	1.1	50	220	12.7	90	0.6	7.6	7.6	92		130					2,400
12-22-68	1.1	60	280	12.0	85	0.7	7.6	7.6	90		130					2,400
12-23-68	1.1	60	220	12.4	88	0.8	7.6	7.6	93		130					460
12-24-68	0.5	60	250	14.0	98	0.8	7.6	7.6	95		130					240
12-25-68	0.5	60	270	13.8	96	0.4	7.6	7.6	94		130					2,400

TABLE 4 (Concluded)
WATER MICROBIOLOGY
WATER CHEMISTRY - WATER PLANT INTAKES
mg/l

Conneaut - H3605

Date	T	TB	Cond.	DO	% Sat.	Cl.	Dem.	pH	T. Alk.	TDS	Hard.	SO ₄	Cl	T. Fe	T. Mn	T. Coll.
12-26-68	0.5	60	270	13.8	96	1.0	7.6	95			130					2,400
12-27-68	0.5	40	240	13.1	91	0.7	7.6	92			130					1,100
12-28-68	0.5	50	250	14.4	100	0.5	7.6	90			130					2,400
12-29-68	0.5	50	270	14.2	99	0.8	7.6	95			130	22	31		0.05	2,400
12-30-68	0.5	50	220	12.7	89	0.5	7.6	85			130					2,400
12-31-68	0.5	60	260	14.0	98	0.7	7.6	95			130					2,400
Dec. Avg.	2.3	50	257	13.8	100	0.8	7.6	93			129	27	32	0.02	0.03	1,644
Max.	6.6	60	330	15.7	126	1.3	7.7	100			134	34	34	0.02	0.05	2,400
Min.	0.5	8	200	12.0	85	0.8	7.5	85			128	22	31	0.02	0.02	150

TABLE 5

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	\$ Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
<u>Toledo</u>												
3-4-68	1.0	13.5	95	.08	.06	.47	.40	1.00	11.6	65	<5	2,000
3-18-68	2.0	16.6	120	.06	.03	.59	.05	.85	12.3	<2	<2	180
4-1-68	5.1	13.6	105	.07	.03	.75	.29	.55	12.6	210	2	940
4-15-68	12.5	10.3	96	.11	.04	.88	.42	2.25	17.1	200	6	450
4-29-68	11.2	11.3	102	.05	.03	.52	.11	.45	12.9	10	<1	200
5-14-68	14.8	9.9	97	.08	.05	1.26	.54	.64	21.9	<5	<5	280
5-27-68	15.0	8.9	88	.14	.07	.76	.06	.96	14.1	420	<10	620
6-11-68	17.3	6.8	70	.05	.05	.42	.09	.82	13.1	<10	<5	80
6-24-68	23.1	--	--	.09	.05	.81	.14	.90	16.9	700	<5	120
7-9-68	20.5	7.3	80	.08	.05	.50	.16	1.17	8.4	120	<10	Spreader
7-23-68	23.7	6.3	74	.11	.07	1.06	.24	.02	12.0	210	<10	2,400
8-6-68	23.9	6.2	73	.09	.04	.45	.11	.15	8.8	40	<10	1,500
8-19-68	24.0	8.3	98	.10	.05	.93	.20	.12	19.5	100	<2	270
9-4-68	21.0	7.6	85	.22	.15	.61	.09	.00	15.3	<1	<1	140
9-17-68	20.0	8.4	92	.06	.06	.55	.21	.05	11.8	6	<1	110
9-30-68	--	--	--	.09	.05	.86	.07	.00	--	<5	<2	950
10-14-68	15.1	9.4	93	.11	.06	.38	.32	.02	17.9	20	2	340
10-28-68	10.0	10.2	90	.10	.05	.14	.06	.10	11.3	10	<1	110
11-4-68	10.0	11.7	100	.07	.05	.19	.11	.05	11.7	15	<1	70
11-19-68	6.0	9.8	78	.07	.05	.45	.00	.27	50.0	<5	<2	200
12-2-68	4.8	12.5	97	.10	.05	.33	.92	.42	21.5	40	5	70
12-18-68	0.0	14.2	98	.08	.03	.25	.20	.26	12.5	<5	<5	70
<u>Port Clinton</u>												
3-4-68	2.5	14.6	106	.08	.06	.63	.22	1.20	12.3	35	<5	450
3-18-68	2.0	18.1	130	.08	.08	.85	.25	1.50	20.4	<2	<2	180

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Port Clinton (cont'd)												
4-2-68	8.2	12.3	104	.12	.10	.86	.29	1.50	17.2	260	3	970
4-15-68	11.5	10.5	95	.12	.09	.81	.20	.90	13.3	2,200	44	7,300
4-29-68	11.4	11.0	100	.05	.04	.34	.19	.21	10.9	300	22	240
5-14-68	14.8	9.2	90	.07	.04	.60	.25	.34	10.2	2,400	40	430
5-27-68	15.0	8.5	84	.05	.03	.50	.24	.44	9.6	2,100	200	10,000
6-11-68	18.1	2.5	26	.06	.04	.80	.16	.83	16.5	1,600	<30	1,200
6-24-68	21.9	--	--	.07	.05	.65	.20	.52	14.2	1,600	110	1,800
7-9-68	21.0	4.7	52	.11	.05	.37	.43	.49	11.4	3,000	480	1,100
7-23-68	23.9	5.4	64	.17	.02	.80	.30	.15	16.3	1,300	100	4,000
8-6-68	24.2	2.6	30	.09	.05	.72	.28	.04	11.8	1,100	1,300	1,800
8-19-68	25.0	4.6	55	.10	.04	.65	.11	.05	11.6	4,600	460	600
9-4-68	21.2	6.6	73	.07	.04	.68	.15	.00	14.1	38,000	2,600	1,600
9-17-68	19.5	7.1	77	.07	.04	.40	.06	.00	15.1	2,900	110	820
9-30-68	17.9	8.0	83	.13	.04	.73	.07	.00	--	2,100	610	2,500
10-14-68	15.9	8.1	80	.11	.05	.83	.37	.03	19.0	20,000	2,200	1,800
10-28-68	8.5	10.4	88	.10	.06	.51	.09	.04	15.9	3,700	230	500
11-4-68	10.0	11.1	98	.07	.05	.43	.17	.05	12.1	900	30	150
11-19-68	5.5	9.5	75	.12	.05	.60	.10	.05	18.7	290	50	300
12-3-68	4.5	12.5	96	.12	.05	.26	.19	.22	11.1	340	40	90
12-18-68	.5	14.2	99	.12	.04	.59	.86	1.70	12.5	1,700	660	
Sandusky												
3-4-68	0.0	13.8	94	.12	.06	.96	.30	1.25	14.3	25	<5	520
3-18-68	1.5	14.9	106	.03	.02	.46	.14	1.10	10.8	38	<2	200
4-2-68	4.9	13.8	107	.04	.04	.93	.32	.90	13.8	38	<2	400
4-15-68	8.8	11.9	102	.04	.02	.52	.13	.55	9.6	24	<1	140

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Sandusky (cont'd)												
4-29-68	13.5	12.0	115	.04	.03	.39	.06	.39	10.7	<3	<2	Spreader
5-14-68	13.6	10.1	97	.06	.05	.46	.30	.33	8.1	10	8	Spreader
5-27-68	15.2	8.1	80	.11	.05	.59	.16	.35	14.4	290	<10	250
6-12-68	16.0	3.6	36	.05	.02	1.04	.39	.64	15.4	<10	<5	16
6-25-68	19.3	2.8	30	.06	.04	.57	.18	.28	11.1	<10	<5	420
7-9-68	20.4	4.6	50	.08	.05	1.05	.58	.20	5.2	<10	<5	180
7-23-68	22.7	6.6	76	.08	.04	.58	.08	.10	12.0	30	<10	3,700
8-6-68	23.2	2.6	30	.08	.05	.65	.35	.07	10.0	10	<10	1,000
8-20-68	24.0	6.2	73	.07	.04	.60	.10	.09	9.1	98	<1	1,500
9-4-68	22.0	6.6	74	.08	.04	.65	.01		11.6	<2	<2	1,400
9-17-68	20.2	5.5	60	.05	.03	.26	.04	.00	9.0	50	.5	220
10-1-68				.05	.03	.45	.08	.03		80	<1	770
10-14-68	16.2	7.0	70	.09	.03	.26	.29	.05	11.3	20	30	2,200
10-29-68	11.0	10.2	92	.08	.02	.43	.12	.03	11.6	160	6	190
11-5-68	11.0	10.8	98	.04	.03	.12	.13	.05	12.9	20	5	190
11-19-68	5.8	7.1	56	.10	.04	.57	.08	.13	18.7	300	<5	540
12-3-68	5.5	12.5	98	.11	.04	.23	.12	.10	8.2	30	<2	40
12-18-68	0.0	14.4	99	.10	.04	.38	.12	.34	13.3	20	<2	49
Huron												
3-4-68	0.5	13.9	96	.10	.07	.62	.30	1.30	13.2	270	95	500
3-18-68	1.0	14.0	98	.05	.05	.66	.19	1.30	14.8	100	10	300
4-2-68	6.8	13.0	105	.04	.02	.57	.15	.95	16.0	50	10	580
4-16-68	9.0	12.0	103	.03	.04	.67	.23	.50	12.3	390	11	80
4-30-68	10.0	--	--	.03	.02	.42	.08	.33	11.2	<10	8	Spreader
5-15-68	15.0	10.3	101	.05	.03	1.70	.50	.34	18.2	<5	<5	70
5-27-68	15.0	8.8	87	.08	.03	.36	.18	.36	10.8	1,100	220	230

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Huron (cont'd)												
6-12-68	16.4	5.4	55	.04	.03	1.14	.15	.38	15.6	140	<20	540
6-25-68	18.6	3.2	34	.06	.04	.61	.20	.35	11.9	<20	<5	1,100
7-9-68	21.3	7.5	84	.05	.03	.55	.55	.20	6.0	100	<10	1,200
7-23-68	22.9	6.4	74	.05	.03	.63	.40	.07	16.6	90	<10	660
8-6-68	23.5	1.4	4	.12	.08	.49	.34	.02	9.2	800	40	2,000
8-20-68	24.0	5.7	67	.07	.04	.55	.08	.04	8.1	100	<1	6,600
9-4-68	22.0	6.4	73	.07	.04	.49	.17	.03	8.3	90	<1	4,300
9-17-68	20.0	5.1	55	.05	.03	.38	.18	.05	11.8	150	<1	850
10-1-68	18.9	7.6	80	.06	.03	.48	.15	.03	9.9	200	80	440
10-14-68	16.5	7.6	77	.06	.03	.25	.10	.09	14.4	120	2	260
10-29-68	11.0	10.4	94	.08	.02	.27	.18	.07	12.1	1,000	210	500
11-5-68	11.0	10.3	93	.04	.04	.29	.16	.06	18.7	810	140	250
11-19-68	5.6	4.8	38	.08	.06	.37	.18	.16	9.3	2,600	290	650
12-3-68	5.5	12.5	98	.08	.04	.16	.09	.28	14.5	2,700	260	3,000
12-18-68	0.0	14.1	96	.09	.04	.46	.09	.61	10.5	1,100	810	220
Vermilion												
3-5-68	1.0	15.1	101	.04	.03	.67	.15	.90	10.5	390	40	300
3-18-68	1.0	14.4	102	.03	.02	.62	.28	1.30	12.5	9,300	800	8,700
4-2-68	6.8	12.9	105	.05	.04	.65	.43	1.05	12.2	3,900	480	530
4-16-68	9.2	12.3	106	.03	.03	.66	.22	.30	7.7	<2	<2	40
4-30-68	8.9	11.8	103	.03	.01	.40	.04	.37	8.8	140	26	Spreader
5-15-68	16.5	10.0	102	.05	.03	.69	.08	.38	13.3	750	150	155
5-27-68	15.0	8.6	85	.09	.04	.75	.40	.77	21.2	7,900	3,100	8,400
6-12-68	19.1	8.7	94	.04	.03	.42	.06	.08	11.3	1,900	120	28,000
6-25-68	20.0	7.0	77	.04	.03	.37	.05	.17	9.8	<100	<5	<100

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
<u>Vermilion (cont'd)</u>												
7-9-68	21.1	5.2	58	.06	.03	.15	.85	.17	6.5	3,200	860	600
7-23-68	23.8	6.6	77	.07	.03	.39	.11	.11	12.0	140	80	720
8-6-68	24.8	7.3	87	.06	.03	.08	.52	.00	13.8	50	<10	1,250
8-20-68	25.0	6.6	78	.06	.04	.57	.09	.03	12.8	<1	<1	50
9-5-68	21.5	6.7	75	.05	.02	.60	.06	.94	12.0	160	<1	140
9-10-68	20.0	6.4	69	.04	.03	.28	.12	.00	8.2	620	220	590
10-1-68	18.0	8.2	86	.03	.01	.34	.06	.00		20	<2	370
10-15-68	16.0	9.1	91	.05	.02	.98	.12	.01	11.7	90	10	9,100
10-29-68	10.0	10.4	92	.10	.03	.25	.10	.01	17.5	180	10	1,600
11-5-68	11.0	9.9	89	.04	.03	.22	.18	.05	11.3	350	40	400
11-19-68	5.2	4.9	38	.12	.04	.31	.24	.09	17.5	1,900	230	1,300
12-3-68	5.0	12.3	95	.10	.04	.22	.13	.22	12.6	160	75	800
12-17-68	0.0	13.2	91	.11	.04	.52	.28	.34	20.4	380	35	230
<u>Elyria</u>												
3-5-68	1.0	14.9	105	.05	.04	.60	.41	.90	4.7	32	<2	150
3-18-68	.8	14.8	103	.09	.04	.75	.15	1.05	12.9	60	22	190
4-2-68	7.1	12.3	102	.10	.03	.62	.55	.90	15.0	1,900	83	380
4-16-68	9.2	11.8	102	.03	.03	.65	.12	.50	8.6	310	48	100
4-30-68	8.5	11.8	102	.03	.02	.34	.16	.38	10.7	2	<2	110
5-15-68	13.6	11.2	107	.03	.03	1.92	.53	.42	20.8	<2	<2	180
5-27-68	14.8	9.8	96	.03	.03	.63	.14	.35	10.2	230	<20	190
6-12-68	17.6	8.6	89	.03	.02	.63	.05	.43	15.9	500	180	1,200
6-25-68	19.1	8.6	92	.03	.02	.78	.14	.26	13.8	60	<5	240
7-9-68	20.9	8.2	91	.04	.03	.22	.64	.10	5.4	<10	10	490
7-23-68	23.9	8.5	100	.04	.03	.39	.11	.12	10.3	280	<10	1,300

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
Elyria (cont'd)												
8-6-68	24.2	9.6	114	.04	.02	.44	.12	.00	11.2	120	<10	3,500
8-20-68	24.8	8.4	100	.05	.03	.48	.02	.00	10.4	3,900	<10	700
9-5-68	22.1	9.3	105	.07	.02	.31	.19	.00	9.9	100	<2	290
9-18-68	19.8	7.2	78	.04	.03	.35	.21	.00	13.5	20	<1	580
10-1-68	19.0	8.8	89	.04	.02	.56	.07	.00		50	<2	260
10-15-68	16.0	10.2	103	.03	.02	.40	.05	.00	9.1	10	2	40
10-29-68	11.0	10.5	94	.15	.01	.53	.07	.04	15.5	5,500	750	2,600
11-5-68	11.2	11.1	100	.04	.03	.00	.10	.02	9.0	70	<5	700
11-20-68	6.0	11.9	94	.12	.04	.49	.31	.12	19.1	1,000	120	2,100
12-3-68	5.6	12.5	98	.09	.04	.21	.14	.79	8.1	2,000	160	780
12-17-68	0.0	13.3	92	.10	.03	.32	.08	.35	18.0	20	15	85
Lorain												
3-5-68	2.1	15.0	107	.04	.03	.53	.29	.80	7.6	14	<2	20
3-18-68	4.2	14.7	112	.05	.04	.41	.15	1.10	10.8	2	<1	120
4-2-68	7.1	13.0	106	.04	.03	.53	.05	.90	9.4	84	4	210
4-16-68	12.0	11.3	104	.03	.02	.57	.10	.60	8.1	33	5	52
4-30-68	8.9	11.7	101	.04	.02	.36	.14	.38	9.2	8	<1	49
5-15-68	14.2	10.4	100	.04	.04	.28	.14	.40	7.4	<2	<2	Spreader
5-27-68	14.8	9.3	92	.05	.03	.57	.11	.33	5.8	<10	<5	43
6-12-68	19.3	8.6	94	.04	.02	.33	.02	.44	10.8	<10	<5	63
6-25-68	19.8	8.4	86	.03	.02	.34	.01	.19	6.5	<10	<5	33
7-9-68	20.0	7.3	80	.04	.04	.19	.34	.15	3.9	<10	<5	Spreader
7-23-68	24.3	7.3	87	.04	.03	--	--	.16	8.2	<10	<10	37
8-7-68	25.9	8.2	100	.03	.03	.27	.03	.03	6.2	<5	<5	18
8-20-68	25.9	7.6	93	.05	.03	.32	.04	.02	8.7	<1	<1	35

TABLE 5 (Continued)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Lorain (cont'd)												
9-5-68	22.3	8.8	100	.05	.03	.60	.06	.00	9.9	<1	<1	71
9-18-68	21.0	7.2	80	.03	.03	.28	.08	.00	8.6	<2	<1	1,100
10-1-68	19.8	8.2	88	.04	.04	.28	.03	.00	--	<1	<1	120
10-15-68	17.0	9.9	101	.04	.02	.31	.04	.01	9.5	2	<1	21
10-29-68	11.5	10.8	98	.18	.02	.29	.06	.04	14.4	180	15	450
11-5-68	12.2	10.3	95	.03	.03	.02	.13	.04	7.4	30	2	520
11-20-68	6.8	11.3	92	.16	.06	.38	.12	.13	23.0	1,100	230	360
12-3-68	7.1	11.8	97	.13	.05	.17	.18	.22	8.9	40	20	130
12-17-68	1.8	13.4	96	.13	.03	.26	.04	.28	12.9	10	5	70
Avon												
3-5-68	0.8	14.6	102	.04	.02	.52	.10	.95	8.7	26	12	100
3-18-68	1.0	14.7	103	.04	.04	.53	.19	.90	9.2	250	50	800
4-3-68	5.9	13.2	105	.05	.03	.65	.15	.80	9.8	130	2	Spreader
4-16-68	10.1	11.6	103	.03	.02	.57	.17	.65	9.2	68	3	Spreader
4-30-68	9.3	11.6	101	.03	.03	.45	.13	.50	11.4	28	<1	55
5-15-68	12.0	11.4	105	.04	.02	.45	.03	.38	8.1	10	<2	Spreader
5-27-68	12.2	10.2	95	.08	.04	.50	.05	.20	1.2	1,300	740	1,000
6-12-68	18.0	8.7	91	.04	.03	.51	.06	.47	13.8	8,000	1,200	2,000
6-25-68	19.6	7.9	85	.04	.02	.41	.08	.26	8.3	85	60	3,200
7-9-68	20.0	7.2	79	.05	.03	.00	.43	.12	2.6	840	110	640
7-23-68	22.0	3.7	43	.07	.06	1.13	.10	.15	16.8	200	90	3,600
8-7-68	24.0	8.2	97	.04	.01	.16	.30	.00	9.6	170	20	3,000
8-20-68	24.5	8.1	96	.06	.03	.42	.11	.07	10.4	100	10	120
9-5-68	21.4	9.2	104	.05	.04	.42	.04	.07	10.4	780	<2	5,500
9-18-68	19.8	6.2	67	.04	.03	.22	.08	.00	6.9	<10	<5	2,300

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Avon (cont'd)												
10-2-68	20.0	8.5	93	.05	.02	.37	.03	.00	--	20	<1	10,000
10-15-68	16.1	8.2	83	.03	.01	.27	.08	.03	11.7	80	10	950
10-29-68	11.0	10.4	93	.12	.03	.37	.13	.04	12.8	480	36	2,000
11-5-68	12.0	10.6	98	.04	.02	.12	.13	.02	10.5	60	36	440
11-20-68	6.0	11.9	95	.12	.04	.46	.19	.08	18.3	2,000	240	990
12-4-68	6.5	12.0	97	.11	.04	.18	.32	.15	13.0	1,600	210	900
12-17-68	1.0	12.4	86	.12	.04	.66	.19	.30	21.2	380	90	360
Cleveland-Crown												
3-5-68	1.0	15.5	108	.04	.03	.63	.20	1.00	11.0	2	<1	70
3-18-68	1.0	15.6	109	.06	.01	.66	.19	.70	16.6	<1	<1	260
4-3-68	4.1	13.7	104	.03	.03	.82	.23	.75	13.4	83	3	Spreader
4-16-68	7.8	12.6	105	.05	.03	.42	.13	.60	7.9	2	<1	20
4-30-68	8.0	12.4	105	.03	.02	.41	.22	.28	11.0	260	18	180
5-15-68	12.0	11.6	107	.03	.03	.27	.30	.25	7.0	<10	<2	80
5-27-68	11.8	10.2	94	.05	.02	.34	.09	.17	5.0	2,600	190	2,100
6-12-68	15.0	6.4	63	.05	.04	.40	.10	.35	12.1	<10	<10	300
6-26-68	17.0	7.9	81	.19	.03	.94	.08	.23	25.5	<10	<10	1,900
7-9-68	--	--	--	.06	.04	.26	.40	.13	3.0	70	<5	1,600
7-24-68	16.0	0.5	5	.06	.05	.37	.39	.13	9.5	20	<10	350
8-8-68	21.6	1.5	5	.10	.06	.21	.45	.10	8.8	2,225	550	>6,000
8-22-68	20.6	1.0	11	.06	.03	.40	.36	.00	8.5	140	10	290
9-5-68	17.4	0.6	5	.11	.04	.33	.17	.00	7.0	<1	<1	120
9-18-68	19.8	5.3	57	.04	.03	.38	.12	.02	9.8	40	2	2,200
10-2-68	20.0	8.5	93	.05	.02	.50	.10	.00	--	<5	<1	330
10-15-68	17.0	9.2	93	.03	.03	.24	.16	.02	12.4	10	2	90
10-29-68	12.0	9.6	88	.23	.03	.46	.13	.04	17.1	210	5	500

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
<u>Cleveland-Crown (cont'd)</u>												
11-5-68	12.0	10.4	96	.04	.03	.14	.06	.02	9.4	40	<1	100
11-20-68	7.0	11.5	93	.16	.07	1.63	.32	.10	43.7	500	30	4,200
12-4-68	7.0	12.5	102	.16	.06	.83	.27	.18	14.4	10	<2	200
12-17-68	1.8	12.1	86	.17	.05	.37	.13	.12	16.1	<5	<5	100
<u>Cleveland-Division</u>												
3-6-68	0.7	13.5	94	.02	.02	.53	.28	.65	16.1	2	2	20
3-18-68	1.0	15.2	107	.02	.02	.60	.10	.70	11.0	180	38	320
4-3-68	3.0	13.9	103	.03	.03	.48	.05	.65	8.2	<5	<5	40
4-16-68	5.0	13.6	106	.03	.02	.53	.12	.40	7.3	5	<1	35
4-20-68	6.5	12.3	100	.03	.01	.57	.07	.20	9.6	23	10	440
5-15-68	11.0	11.6	105	.04	.02	.35	.05	.32	7.0	20	<2	50
5-29-68	10.6	10.4	93	.03	.02	.47	.07	.15	4.6	4,100	440	Spreader
6-12-68	16.0	8.4	85	.04	.01	.54	.11	.40	13.8	<10	<10	50
6-26-68	15.2	5.2	52	.08	.03	.69	.19	.29	14.6	<10	<10	600
7-9-68	20.5	8.5	94	.03	.02	.98	.32	.26	6.5	760	<5	300
7-24-68	21.0	6.3	70	.02	.02	.49	.14	.17	9.5	550	<10	43
8-9-68	24.3	8.2	97	.02	.02	.32	.04	.07	8.4	<10	<5	87
8-21-68	22.9	8.2	95	.03	.02	.44	.02	.00	7.9	<2	<1	1,100
9-5-68	21.4	7.8	87	.02	.02	.31	.05	.00	8.7	<1	<1	170
9-18-68	20.0	8.4	92	.03	.02	.18	.15	.00	9.8	<1	<1	34
10-1-68	19.5	8.6	93	.04	.02	.30	.03	.00	--	15	5	720
10-15-68	16.5	10.2	103	.05	.02	.54	.21	.03	11.0	5,500	1,300	3,460
10-30-68	11.5	9.7	88	.07	.03	.26	.14	.34	10.5	40	<2	200
11-5-68	12.0	9.8	90	.04	.03	.01	.04	.02	8.6	420	46	234
11-19-68	8.0	11.1	93	.07	.03	.20	.10	.07	13.9	40	10	55
12-3-68	6.8	12.1	98	.08	.04	.27	.08	.17	7.0	85	45	250
12-18-68	2.5	13.3	97	.05	.03	.45	.10	.17	13.3	80	<5	140

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coli. org/100 ml	Fec. Coli. org/100 ml	35°C SPC org/100 ml
<u>Cleveland-Baldwin</u>												
3-6-68	1.0	14.0	98	.03	.03	.47	.34	.55	8.7	48	4	280
3-18-68	1.0	13.4	94	.03	.02	.53	.05	.70	11.0	120	27	130
4-3-68	3.0	14.2	105	.03	.03	.73	.17	.70	12.2	<3	<1	39
4-16-68	4.8	14.2	109	.03	.02	.30	.08	.35	5.8	12	<1	14
4-30-68	7.5	12.4	104	.03	.03	.38	.12	.22	8.8	28	6	660
5-15-68	10.6	11.8	105	.03	.02	.44	.02	.36	7.0	100	6	12
5-29-68	10.5	10.2	91	.03	.03	.43	.11	.23	4.6	2,800	1,300	1,500
6-12-68	18.5	9.5	100	.04	.02	.74	.18	.59	15.7	<10	<20	40
6-25-68	18.5	6.9	73	.02	.01	.36	.03	.17	9.0	<5	<5	250
7-9-68	20.8	8.8	98	.04	.03	--	--	.17	4.7	630	<5	40
7-23-68	22.5	8.1	93	.03	.03	.23	.37	.15	11.6	<10	<10	75
8-9-68	24.4	8.2	98	.03	.02	.52	.21	.07	9.4	<10	<5	290
8-21-68	23.2	8.2	95	.03	.01	.42	.02	.00	7.0	1,300	<5	350
9-5-68	21.4	8.7	98	.01	.01	.28	.02	.00	7.0	<1	<1	100
9-17-68	20.0	9.4	102	.03	.02	.23	.03	.00	7.8	10	<1	16
10-1-68	20.0	8.9	97	.03	.02	.43	.07	.08	19.7	170	<1	32
10-15-68	16.5	10.2	103	.04	.03	.16	.09	.03	19.7	2,500	350	8,600
10-30-68	12.0	9.9	91	.07	.02	.22	.18	.11	9.7	30	<2	80
11-5-68	12.0	9.9	91	.03	.03	.09	.06	.02	8.6	580	50	248
11-18-68	7.5	11.1	93	.07	.04	.14	.16	.09	16.3	<10	<2	230
12-3-68	7.5	12.1	100	.08	.04	.03	.07	.12	6.7	20	<2	62
12-18-68	2.5	13.4	98	.10	.02	.22	.03	.14	10.2	30	<2	
<u>Cleveland-Nottingham</u>												
3-6-68	1.0	13.8	97	.02	.02	.51	.22	.40	7.4	<2	<1	70
3-18-68	1.0	13.5	95	.04	.03	.37	.28	.40	8.3	<2	<2	6

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Cleveland-Nottingham (cont'd)												
4-2-68	3.0	14.0	103	.03	.02	.53	.07	.65	8.0	18	3	90 Spreader
4-16-68	6.0	13.3	106	.04	.03	.38	.22	.80	8.1	2	<1	15
4-30-68	6.0	11.6	88	.03	.01	.42	.08	.31	10.5	<2	<1	7
5-15-68	9.7	11.9	105	.04	.02	.55	.03	.32	6.7	<2	<2	7
5-29-68	10.2	10.6	95	.03	.02	.47	.03	.13	3.3	<5	<5	16 Spreader
6-11-68	14.3	8.2	80	.02	.02	.33	.07	.29	11.5	<5	<5	7
6-25-68	17.0	6.4	65	.03	.03	.36	.06	.37	10.0	<10	<5	5
7-9-68	19.0	7.6	81	.03	.02	.23	.07	.20	2.6	<10	<5	5
7-23-68	23.5	7.9	93	.03	.02	.40	.16	.24	11.2	<10	<10	5
8-7-68	22.7	7.1	81	.03	.02	.25	.21	.09	7.2	30	10	Spreader
8-21-68	22.5	7.8	90	.03	.02	.33	.10	.00	7.5	200	<1	28
9-5-68	21.0	7.0	78	.05	.02	.28	.02	.00	5.8	<1	<1	6
9-17-68	19.8	8.3	90	.03	.01	.25	.05	.04	6.9	2	<1	20
10-1-68	20.0	8.7	95	.04	.02	.48	.05	.02	--	<1	<1	74
10-15-68	17.0	9.8	100	.05	.02	.16	.09	.03	8.0	55	<2	51
10-29-68	12.0	9.7	88	.10	.02	.51	.09	.05	10.5	10	<1	190
11-5-68	12.0	9.9	91	.04	.04	.01	.14	.05	8.6	<1	<1	6
11-19-68	8.0	11.2	94	.12	.04			.17	35.3	<5	<2	40
12-3-68	9.0	11.9	102	.11	.04	.11	.04	.15	17.4	<2	<2	4
12-18-68	2.5	13.2	97	.11	.04	.40	.15	.15	14.9	15	<2	--
Eastlake												
4-17-68	5.1	12.0	93	.05	.02	.35	.25	.70	7.3	350	13	220
4-29-68	7.9	--	--	.05	.02	.41	.14	.32	9.6	120	8	280
5-16-68	13.0	--	--	.07	.04	.45	.26	.48	9.5	820	150	960
5-27-68	11.1	--	--	.04	.02	.93	.27	.17	11.0	600	<10	360

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Eastlake (cont'd)												
6-10-68	20.1	--	--	.09	.08	.58	.23	.34	16.1	180	30	950
6-24-68	19.4	8.2	88	.07	.03	.35	.10	.30	9.0	--	--	--
7-8-68	20.3	9.8	108	.03	.03	.58	.65	.22	13.3	60	<2	480
7-22-68	23.9	8.1	97	.03	.02	.39	.07	.15	9.9	240	30	5,000
8-7-68	25.0	9.3	112	.07	.04	.45	.21	.07	10.0	250	80	Spreader
8-20-68	24.4	8.2	98	.04	.03	.42	.18	.03	14.1	1,900	110	990
9-4-68	22.4	9.4	107	.09	.05	.45	.05	.00	11.6	2,300	130	930
9-16-68	21.1	8.1	90	.09	.05	.36	.14	.04	11.4	1,000	140	1,100
10-1-68	19.2	8.5	91	.24	.09	.49	.21	.43	--	4,400	2,300	8,300
10-16-68	17.2	10.3	105	.12	.08	.37	.13	.07	9.7	4,900	170	4,200
10-28-68	11.0	10.5	95	.15	.05	.33	.92	.41	22.1	17,000	5,300	23,000
11-6-68	12.0	9.9	91	.07	.06	.05	.25	.09	11.7	910	180	1,200
11-18-68	8.8	11.2	96	.15	.14	--	--	--	19.5	19,000	2,300	12,000
12-2-68	6.4	12.0	97	.16	.05	.38	.32	.61	24.1	16,000	700	6,200
12-18-68	0.9	13.6	96	.16	.04	.31	.39	.25	16.5	8,500	3,000	2,000
Mentor												
3-6-68	1.0	14.2	100	.02	.02	.37	.15	.45	6.7	2	<1	10
3-18-68	1.0	13.8	97	.03	.02	.51	.13	.35	7.1	490	130	Spreader
4-2-68	1.5	14.2	101	.07	.02	.60	.29	.45	8.6	46	10	Spreader
4-16-68	9.3	11.3	98	.05	.03	.53	.82	.95	11.5	2,400	340	1,000
4-30-68	8.0	11.4	96	.04	.01	.42	.08	.37	11.8	500	10	160
5-14-68	11.0	11.6	105	.06	.03	.49	.03	.31	6.3	140	6	510
5-29-68	10.0	11.0	98	.10	.02	.75	.08	1.41	11.6	1,100	<25	120
6-11-68	15.0	7.6	75	.03	.02	.40	.12	.34	13.4	400	<10	100
6-25-68	19.0	7.7	81	.05	.00	.39	.11	.29	10.2	190	55	1,300
7-9-68	21.0	9.2	101	.05	.02	.40	.06	.19	3.2	<10	<5	25

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Mentor (cont'd)												
7-23-68	24.0	8.4	100	.05	.02	.50	.50	.22	17.6	54	10	420
8-9-68	25.1	8.3	100	.04	.02	.37	.13	.09	10.2	10	<10	150
8-20-68	24.2	7.6	90	.05	.03	.42	.04	.02	7.5	500	15	800
9-3-68	21.4	9.6	108	.04	.02	.87	.17	.05	12.0	190	5	22
9-17-68	20.5	7.2	78	.03	.03	.35	.08	.07	9.4	200	10	240
10-1-68	19.0	8.8	94	.12	.05	.49	.24	.16		>3,000	1,800	3,300
10-15-68	16.0	10.5	105	.06	.04	.27	.08	.10	10.6	500	<5	600
10-29-68	11.0	10.1	91	.23	.04	.20	.75	.21	17.5	22,000	3,300	7,600
11-5-68	12.0	10.0	92	.08	.07	.18	.17	.07	9.4	47,000	2,500	3,500
11-19-68	7.0	11.1	90	.09	.05	.53	.27	.17	17.5	35,000	2,600	13,000
12-3-68	7.2	11.8	97	.08	.04	.19	.26	.31	11.1	2,300	290	100
12-18-68	1.5	13.8	98	.08	.04	.24	.11	.20	16.5	3,800	950	460
Palnesville												
3-6-68	1.0	14.6	103	.03	.02	.42	.20	.45	6.3	<5	<2	60
3-18-68	1.0	14.2	100	.08	.02	.67	.23	.40	8.3	<1	<1	Spreader
4-2-68	1.5	15.0	107	.06	.03	.64	.23	.45	15.4	60	<1	59
4-16-68	10.1	11.3	100	.09	.04	.60	.55	.90	16.5	2,800	110	170
4-30-68	9.5	11.0	97	.06	.03	.72	.33	.45	16.6	900	17	61
5-14-68	11.7	11.5	105	.05	.01	.28	.20	.29	7.7	100	12	Spreader
5-29-68	12.5	10.3	96	.15	.05	.80	.10	.40	13.9	150	<5	110
6-11-68	15.3	7.8	78	.05	.04	.94	.16	.66	15.4	50	<5	160
6-25-68	21.0	10.9	120	.04	.03	.40	.02	.23	10.0	110	20	310
7-9-68	22.0	9.0	102	.10	.04	.82	.64	.35	14.6	1,200	60	1,000
7-23-68	23.0	7.8	90	.04	.03	.76	.34	.20	13.8	600	<10	6,000
8-9-68	25.0	8.2	99	.04	.03	.47	.06	.05	8.8	Spreader	100	870

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY

mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
<u>Palnesville (cont'd)</u>												
8-20-68	24.0	7.5	89	.07	.03	.57	.16	.00	12.4	3,100	710	3,300
9-3-68	21.7	8.9	100	.13	.05	.82	.04	.04	12.8	6,700	180	1,000
9-17-68	20.5	8.8	97	.04	.04	.27	.03	.00	9.0	100	20	660
10-1-68	19.0	8.8	94	.09	.03	.47	.13	.15	--	750	140	930
10-15-68	16.0	10.8	108	.09	.02	.20	.10	.28	11.0	2,000	40	1,300
10-29-68	10.0	10.8	95	.18	.04	.23	.37	.22	20.2	42,000	5,700	12,000
11-5-68	12.0	10.0	93	.06	.04	.14	.11	.07	9.0	2,100	160	2,100
11-19-68	7.0	11.6	94	.13	.05	.79	.31	.30	21.4	130,000	7,500	6,600
12-3-68	6.8	12.1	98	.12	.04	.25	.20	.36	10.7	2,300	300	1,700
12-18-68	2.0	14.2	102	.13	.04	.41	.09	.25	14.9	4,900	1,100	1,000
<u>Madison</u>												
3-7-68	0.7	14.2	98	.03	.02	.41	.12	.50	6.3	4	<1	110
3-18-68	1.0	14.2	100	.03	.02	.66	.18	.40	10.0	<5	<5	11
4-2-68	4.0	13.9	105	.31	.01	.57	.16	.30	17.0	9	<1	32
4-16-68	9.5	11.2	97	.06	.02	.43	.50	.95	9.4	48	<1	67
4-30-68	7.8	11.2	95	.04	.02	.47	.08	.34	10.7	310	8	100
5-14-68	9.3	11.3	99	.04	.02	.57	.12	.34	10.6	30	2	Spreader
5-29-68	12.8	10.9	102	.07	.02	.51	.06	.99	7.1	<35	<5	46
6-11-68	14.0	8.4	81	.04	.02	.41	.07	.19	10.8	<15	<5	75
6-25-68	19.0	7.6	80	.04	.02	.65	.12	.33	13.2	<20	<10	2,300
7-9-68	20.8	7.3	80	.04	.03	.58	.15	.35	5.6	<10	<10	500
7-23-68	23.0	8.2	95	.08	.04	.36	.14	.11	12.9	<10	<10	350
8-9-68	24.5	7.7	92	.04	.01	.55	.25	.10	9.2	120	<5	Spreader
8-20-68	23.2	7.3	85	.08	.04	.37	.06	.00	8.7	<1	<1	990
9-3-68	22.0	8.7	99	.06	.03	2.16	.10	.00	9.9	15	<1	140
9-17-68	20.5	8.7	96	.06	.03	.18	.08	.00	8.6	4	<1	350

TABLE 5 (Continued)

NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. org/100 ml	35°C SPC org/100 ml
Madison (cont'd)												
10-1-68	18.8	8.6	92	.10	.04	.67	.09	.32		90	5	1,700
10-15-68	16.0	9.6	96	.05	.01	.20	.20	.05	9.5	40	<2	200
10-29-68	10.5	10.2	90	.15	.07	.49	.16	.12	15.9	6,600	900	3,500
11-5-68	12.5	9.9	92	.04	.04	.04	.06	.06	9.0	420	15	870
11-19-68	7.5	11.2	93	.08	.04	.73	.17	.21	20.3	6,200	620	3,100
12-3-68	6.0	12.2	97	.10	.04	.39	.21	.47	15.9	200	35	770
12-18-68	1.5	13.4	95	.10	.04	.37	.13	.19	16.1	7,000	720	9,300
Ashtabula												
3-7-68	1.0	13.0	91	.01	.01	.26	.29	.35	5.4	2	<1	<1
3-18-68	1.0	13.2	93	.02	.02	.46	.08	.30	6.7	8	<1	38
4-2-68	1.0	14.5	102	.03	.03	.38	.00	.15	4.6	52	15	31
4-16-68	9.0	11.8	102	.05	.02	.36	.23	.80	7.3	<1	<1	28
4-30-68	8.5	11.0	95	.05	.04	.47	.08	.39	10.7	30	<2	36
5-14-68	9.3	11.3	98	.02	.01	.39	.11	.33	6.0	5	4	11
5-29-68	10.0	10.8	95	.05	.02	.41	.05	.25	3.3	60	<5	55
6-11-68	12.5	9.3	87	.02	.02	.38	.02	.08	10.8	<10	<10	31
6-25-68	18.5	7.8	82	.07	.04	.35	.12	.24	9.2	<5	<5	83
7-9-68	20.0	7.6	83	.04	.04	.57	.23	.23	3.9	410	<5	700
7-23-68	23.0	8.2	95	.03	.02	.24	.09	.04	8.6	<10	<10	370
8-9-68	23.5	8.9	104	.04	.02	.50	.06	.00	6.4	<10	<10	40
8-19-68	22.9	7.3	85	.05	.02	.16	.07	.00	5.4	100	5	40
9-3-68	21.0	10.0	111	.04	.01	1.78	.05	.00	10.8	80	10	200
9-17-68	20.2	8.7	95	.04	.01	.22	.04	.00	7.8	25	12	93
10-1-68	19.0	8.8	94	.10	.03	.55	.05	.02	--	400	54	690
10-15-68	16.0	10.1	101	.04	.02	.09	.21	.04	9.9	60	8	190
10-29-68	11.0	10.1	91	.16	.05	.86	.24	.14	34.1	7,000	730	2,600

TABLE 5 (Concluded)
NUTRIENTS, OXYGEN-CONSUMING CONSTITUENTS, MICROBIOLOGY
mg/l

Station	T	DO	% Sat.	TP	SP	Org. N	NH ₃ N	NO ₃ N	COD	T. Coll. org/100 ml	Fec. Coll. Org/100 ml	35°C SPC org/100 ml
Ashtabula (cont'd)												
11-5-68	12.0	9.9	91	.07	.03	.01	.04	.06	8.6	890	100	
11-19-68	8.0	11.2	94	.10	.04	.49	.06	.10	23.4	1,500	85	530
12-3-68	6.0	12.2	97	.08	.04	.28	.07	.21	9.6	330	24	220
12-18-68	0.0	14.0	96	.09	.03	.54	.11	.24	15.7	2,900	190	1,700
Conneaut												
3-7-68	0.7	14.0	97	.02	.02	.27	.20	.50	5.8	<1	<1	<1
3-18-68	1.0	10.8	76	.02	.02	.46	.08	.45	5.0	<1	<1	Spreader
4-2-68	3.0	14.3	105	.02	.02	.43	.07	.15	6.2	2	<1	Spreader
4-15-68	6.5	12.8	103	.05	.02	.33	.20	.60	8.5	6	<1	Spreader
4-29-68	9.0	10.9	95	.04	.04	.39	.11	.47	11.0	3	3	90
5-14-68	10.0	11.2	101	.04	.03	.36	.02	.38	7.4	22	6	Spreader
5-27-68	12.5	11.2	105	.04	.02	.54	.04	.22	6.7	45	<5	39
6-10-68	15.0	9.9	98	.03	.03	.41	.05	.13	11.9	240	<10	240
6-24-68	23.0	8.0	93	.04	.04	.30	.10	.16	7.3	90	<5	120
7-8-68	20.5	8.5	95	.04	.03	.56	.10	.23	2.6	260	<5	2,200
7-22-68	23.0	7.2	83	.03	.02	.49	.27	.10	9.0	120	<10	63
8-9-68	24.2	--	--	.02	.02	.36	.04	.00	8.8	<10	<5	39
8-19-68	23.0	7.6	88	.04	.02	.32	.04	.00	6.2	<1	<1	15
9-3-68	21.1	8.6	97	.02	.01	.58	.02	.00	9.1	<1	<1	36
9-16-68	20.5	8.6	95	.03	.02	.19	.03	.00	6.9	2	<1	36
9-30-68	19.0	9.0	96	.14	.02	.46	.04	.00	--	--	--	--
10-14-68	16.0	10.3	103	.03	.01	.30	.15	.04	12.8	10	2	56
10-28-68	12.0	9.8	90	.08	.03	.26	.09	.06	6.6	1,400	200	450
11-4-68	12.0	10.4	95	.06	.03	.04	.06	.06	8.2	51	25	80
11-18-68	8.0	11.4	95	.05	.02	.33	.07	.08	11.5	20	10	58
12-3-68	6.0	12.3	98	.09	.02	.24	.16	.22	8.1	30	10	350
12-17-68	2.0	13.6	99	.07	.03	.41	.09	.19	9.8	2,400	50	2,200

TABLE 6

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Toledo</u>										
E3-1										
3-4-68	0.03		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-24-68	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.13
9-4-68	0.00	0.07	0.01	0.15	0.00	0.04	0.00	0.00	0.00	0.20
10-14-68	0.00	0.20	0.00	0.88	0.01	0.03	0.00	0.00	0.01	0.10
12-2-68	0.00	0.37	0.00	0.61	0.00	0.06	0.01	0.00	0.09	0.00
<u>Port Clinton</u>										
C7-4										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-24-68	0.00	0.03	0.01	0.00	0.02	0.03	0.00	0.00	0.00	0.12
9-4-68	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.20
10-14-68	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00		0.00		0.01	0.20	0.01	0.00	0.18	0.20
<u>Sandusky</u>										
B11-1										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.02	0.01	0.01	0.04	0.03	0.01	0.00	0.00	0.12
9-4-68	0.00	0.07	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.20
10-14-68	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.02	0.01	0.04	0.01	0.00	0.00	0.10
<u>Huron</u>										
A12-4										
3-4-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.11

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Huften (cont'd)</u>										
9-4-68	0.00	0.09	0.01	0.13	0.00	0.01	0.00	0.00	0.00	0.20
10-14-68	0.00	0.92	0.00	2.47	0.00	0.04	0.00	0.00	0.03	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.03	0.01	0.00	0.00	0.20
<u>Vermilion</u>										
B14-4										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9-4-68	0.00	0.01	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.20
10-15-68	0.00	0.01	0.00	0.16	0.01	0.00	0.00	0.00	0.00	0.10
12-3-68	0.00	0.03	0.00	0.01	0.01	0.06	0.01	0.00	0.00	0.10
<u>Elyria</u>										
B16-6										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.11
9-5-68	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.10
10-15-68	0.00	0.54	0.00	1.16	0.02	0.10	0.00	0.00	0.02	0.10
12-3-68	0.00	0.05	0.00	0.01	0.00	0.06	0.00	0.00	0.04	0.10
<u>Lorain</u>										
B16-5										
3-5-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	
6-25-68	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.11
9-5-68	0.00	0.08	0.00	0.19	0.00	0.01	0.00	0.00	0.00	0.10
10-15-68	0.00	0.08	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.10
12-13-68	0.00	0.03	0.00	0.03	0.01	0.02	0.00	0.00	0.05	0.10

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Avon Lake</u>										
C18-1	0.00		0.00		0.00		0.00	0.00		
3-5-68	0.00	0.04	0.00		0.06		0.00	0.00	0.00	
4-30-68	0.00	0.05	0.00	0.01	0.00		0.00	0.00	0.00	0.11
6-25-68	0.00	0.13	0.00	0.01	0.00		0.00	0.00	0.00	0.10
9-5-68	0.00	0.36	0.00	0.36	0.01		0.00	0.00	0.02	0.20
10-15-68	0.00	0.04	0.00	0.02	0.01		0.00	0.00	0.00	0.10
12-4-68										
<u>Cleveland Crown</u>										
C20-1	0.00		0.00		0.00		0.00	0.00		
3-5-68	0.00	0.02	0.00	0.00	0.00		0.00	0.00		
4-30-68	0.00	0.09	0.01	0.01	0.01	0.04	0.00	0.00	0.10	0.13
6-26-68	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.10
9-5-68	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
10-15-68	0.00	0.01	0.00	0.01	0.01	0.05	0.00	0.00	0.06	0.10
12-4-68										
<u>Cleveland Division</u>										
C21-3	0.01		0.00		0.00		0.00	0.00	0.00	
3-6-68	0.00	0.04	0.00	0.00	0.00		0.00	0.00	0.11	
4-30-68	0.00	0.07	0.01	0.01	0.00	0.02	0.00	0.00	0.10	0.12
6-26-68	0.00	0.00	0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.10
9-5-68	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.10
10-15-68	0.00	0.02	0.00	0.00	0.01	0.05	0.00	0.00	0.06	0.10
12-3-68										
<u>Cleveland Baldwin</u>										
C21-4	0.02		0.00		0.00		0.00	0.00		
3-6-68	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	
4-30-68	0.00	0.02	0.01	0.10	0.00	0.05	0.00	0.00	0.10	0.12
6-25-68										

TABLE 6 (Continued)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Cleve. Baldwin (cont'd)</u>										
9-5-68	0.00	0.01	0.01	0.02	0.00	0.04	0.00	0.00	0.00	0.20
10-15-68	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.07	0.00	0.00	0.00	0.10
<u>Cleve. Nottingham D23-1</u>										
3-6-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.06	0.00	0.18	0.00	0.00	0.00	0.00	0.00	
6-25-68	0.00	0.02	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.13
9-5-68	0.00	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.10
10-15-68	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.04	0.00	0.00	0.03	0.10
<u>Mentor O.W.S. E26-1</u>										
3-6-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	
6-25-68	0.00	0.03	0.01	0.00	0.01	0.02	0.00	0.00	0.10	0.13
9-17-68	0.00	0.03	0.01	0.13	0.01	0.00	0.00	0.00	0.01	0.20
10-15-68	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.10
12-3-68	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.00	0.05	0.10
<u>Painesville F27-18</u>										
3-6-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.04	0.00		0.00	0.08	0.00	0.00	0.00	
6-25-68	0.00	0.05	0.00	0.01	0.00	0.02	0.00	0.00	0.10	0.12
9-17-68	0.00	0.05	0.00	0.15	0.01	0.01	0.00	0.00	0.01	0.20
10-15-68	0.00	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.10
12-3-68	0.00	0.02	0.00	0.01	0.01	0.07	0.00	0.00	0.01	0.10

TABLE 6 (Concluded)

HEAVY METALS, CYANIDE, ARSENIC, AND FLUORIDE
WATER INTAKES
mg/l

	CN	ZN	Ag	Cu	Cr	Ni	Cd	As	Pb	F
<u>Madison O.W.S.</u>										
G30-1										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	0.06	0.00	0.00	0.00	0.36	0.00	0.00	0.00	
6-25-68	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.10	0.12
9-17-68	0.00	0.13	0.00	0.13	0.00	0.00	0.00	0.00	0.01	0.10
10-15-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.05	0.00	0.02	0.01	0.07	0.00	0.00	0.02	0.10
<u>Ashtabula</u>										
G33-3										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-30-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	
6-25-68	0.00	0.03	0.00	0.00	0.01	0.03	0.00	0.00	0.10	0.13
9-3-68	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.20
10-15-68	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.10
12-3-68	0.00	0.07	0.00	0.01	0.01	0.08	0.00	0.00	0.00	0.10
<u>Conneaut</u>										
H36-5										
3-7-68	0.00		0.00		0.00		0.00	0.00		
4-29-68	0.00	NS	NS	NS	NS	NS	NS	NS	NS	
6-24-68	0.00	0.02	0.00	0.00	0.02	0.01	0.00	0.00	0.10	0.17
9-3-68	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01
10-14-68	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.01
12-2-68	0.00	0.02	0.00	0.02	0.01	0.05	0.00	0.00	0.00	0.01

TABLE 7
WATER INTAKE STUDY

PLANKTON

Toledo (E-03-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./ML.
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	
3-4-68	638	946	66	-	-	-	88	22	1,760
3-12-68	5,984	1,452	132	-	-	44	176	-	7,788
3-18-68	28,336	1,804	88	-	-	88	176	44	30,536
3-26-68	3,168	616	132	-	-	-	-	-	3,916
4-10-68	22,528	1,496	264	-	44	-	-	88	24,420
4-09-68	140	580	100	20	-	-	-	60	900
4-15-68	2,156	1,056	418	-	-	44	22	44	3,740
4-23-68	2,618	242	220	-	-	-	110	22	3,212
4-29-68	1,232	308	332	-	-	22	-	22	1,916
5-7-68	2,486	198	506	-	-	22	66	44	3,322
5-14-68	2,530	396	1,672	22	22	22	88	22	4,774
5-26-68	594	88	1,364	-	44	22	44	-	2,156
5-27-68	2,244	440	2,332	88	-	-	176	-	5,280
6-04-68	800	80	800	-	40	-	-	40	1,760
6-11-68	1,760	44	616	44	-	-	44	-	2,508
6-18-68	3,344	396	1,980	-	-	44	88	-	5,852
6-24-68	1,474	308	4,884	132	44	396	836	44	8,118
7-02-68	240	40	460	40	20	20	20	20	860
7-09-68	1,800	80	1,600	40	-	80	80	-	3,680
7-16-68	66	22	308	-	-	-	396	22	814
7-23-68	80	-	80	-	-	-	340	-	500
7-30-68	105	15	180	-	15	-	90	-	405
8-06-68	120	-	160	-	40	-	180	20	520
8-13-68	120	-	240	-	2,880	680	80	-	4,000
8-19-68	572	44	572	-	13,904	2,112	132	-	17,336
8-27-68	320	40	440	-	7,600	3,920	120	-	12,440
9-4-68	160	-	520	-	10,400	1,560	40	40	12,720
9-10-68	90	-	36	-	72	1,152	-	-	1,350
9-16-68	66	-	88	-	242	814	88	-	1,298
9-24-68	88	-	220	-	176	1,914	286	-	2,684
9-30-68	88	-	220	-	132	4,048	264	-	4,752
10-8-68	185	37	-	-	-	1,591	-	-	1,813
10-14-68	88	-	484	-	-	2,640	-	-	3,212
10-22-68	-	-	111	-	-	2,442	37	-	2,590
10-28-68	88	110	220	176	88	682	66	-	1,430
11-4-68	1,221	111	777	37	37	851	111	-	3,145
11-12-68	2,640	-	352	44	-	1,056	-	-	4,092
11-19-68	286	88	176	-	-	418	66	-	1,034
11-26-68	1,980	44	660	-	88	176	-	-	2,948
12-2-68	5,832	162	432	-	-	-	108	-	6,534
12-10-68	656	54	18	18	-	-	36	36	818
12-18-68	522	36	252	-	36	-	18	-	864
12-24-68	616	44	66	11	-	11	11	-	759
12-31-68	1,188	110	22	-	-	22	-	-	1,342

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Port Clinton (C-07-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	3,564	1,320	132	-	-	-	-	88	5,104
3-12-68	3,454	2,398	66	-	-	-	-	66	5,984
3-18-68	102,150	1,800	-	-	-	-	-	450	104,400
3-26-68	28,116	1,584	440	-	-	-	44	-	30,184
4-2-68	48,600	2,700	450	-	-	-	450	-	52,200
4-09-68	4,400	1,760	280	-	-	-	40	-	6,480
4-15-68	1,606	2,354	198	-	22	-	44	22	4,246
4-23-68	638	264	407	22	-	-	-	-	1,331
4-29-68	836	220	330	-	-	-	66	88	1,540
5-7-68	968	308	990	-	-	22	44	-	2,332
5-14-68	506	209	341	22	-	11	11	-	1,100
5-21-68	360	160	760	-	-	-	80	-	1,360
5-27-68	286	110	748	-	22	-	154	-	1,320
6-04-68	2,728	176	1,496	-	-	-	-	-	4,400
6-11-68	1,280	-	960	40	-	120	40	-	2,440
6-18-68	1,188	88	1,628	88	44	132	44	-	3,212
6-24-68	1,040	80	2,560	160	40	640	280	40	4,840
7-02-68	100	20	860	-	20	-	60	-	1,060
7-09-68	198	66	770	22	44	154	220	-	1,474
7-16-68	280	-	200	20	20	60	40	-	620
7-23-68	180	20	240	20	140	20	40	20	680
7-30-68	80	40	880	-	2,120	200	40	-	3,360
8-06-68	200	-	160	-	440	840	80	40	1,760
8-13-68	440	80	1,880	40	3,000	1,360	520	-	7,320
8-19-68	154	22	616	-	1,672	924	176	-	3,564
8-27-68	1,040	240	1,520	-	3,480	7,200	1,160	40	14,680
9-4-68	462	-	264	-	-	660	-	-	1,386
9-10-68	222	-	185	-	333	1,221	37	-	1,998
9-18-68	111	-	111	-	148	1,036	111	-	1,517
9-24-68	140	-	420	-	320	540	120	-	1,540
9-30-68	200	200	920	40	960	2,240	120	-	4,680
10-8-68	162	72	306	-	108	864	108	-	1,620
10-14-68	111	37	148	37	37	1,221	37	-	1,628
10-22-68	54	54	180	-	36	810	-	-	1,134
10-28-68	198	220	726	88	22	2,662	44	-	3,960
11-4-68	132	88	528	132	44	1,276	44	-	2,244
11-19-68	306	36	306	54	-	234	54	-	990
12-3-68	154	22	176	66	-	22	22	-	462
12-10-68	810	108	594	108	-	18	72	-	1,710
12-18-68	666	108	270	18	-	-	126	-	1,188
12-24-68	864	36	450	36	-	-	-	18	1,404

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Sandusky (B-11-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	3,872	1,386	88	-	-	44	-	22	5,412
3-12-68	1,848	2,332	176	22	-	44	-	-	4,422
3-18-68	4,620	1,320	396	-	-	-	-	88	6,424
3-26-68	21,780	1,848	396	-	-	-	88	132	24,244
4-2-68	6,556	1,628	132	-	-	-	88	44	8,448
4-9-68	385	726	165	-	22	-	154	143	1,595
4-15-68	517	264	429	-	11	-	121	77	1,419
4-23-68	528	110	396	-	-	-	44	66	1,144
4-29-68	1,100	110	550	-	-	-	-	22	1,782
5-7-68	946	132	506	44	22	22	88	-	1,760
5-14-68	968	198	880	22	-	154	154	22	2,398
5-21-68	220	66	638	22	-	196	176	-	1,318
5-27-68	1,474	374	440	22	-	-	88	-	2,398
6-04-68	110	88	726	-	-	352	66	-	1,342
6-12-68	40	-	200	-	-	-	60	-	300
6-18-68	66	-	550	-	22	-	110	-	748
6-25-68	180	-	200	-	-	-	-	-	380
7-02-68	320	-	160	-	-	-	60	-	540
7-09-68	360	40	120	-	20	140	-	20	700
7-16-68	44	-	77	-	-	-	11	11	143
7-23-68	330	44	242	22	-	44	330	-	1,012
7-30-68	90	-	75	-	-	15	15	90	285
8-06-68	88	11	66	-	11	-	-	11	187
8-13-68	462	-	88	-	44	198	22	22	836
8-20-68	308	-	176	-	-	242	-	-	726
8-27-68	462	88	132	-	154	594	88	-	1,518
9-4-68	130	30	160	-	30	140	70	10	570
9-10-68	198	-	66	-	-	-	110	44	418
9-17-68	54	18	90	-	-	-	36	-	198
9-24-68	40	-	140	-	60	-	200	20	460
10-1-68	286	132	220	-	-	462	88	-	1,188
10-8-68	88	22	110	22	22	22	55	22	363
10-14-68	396	36	90	-	-	162	36	-	720
10-22-58	144	18	180	-	18	126	198	-	684
10-28-68	253	66	165	-	-	121	33	-	638
11-5-68	90	-	270	-	-	54	108	-	522
11-12-68	1,056	264	572	132	-	836	-	-	2,860
11-19-68	144	72	270	-	18	126	36	-	666
11-26-68	132	41	216	-	-	-	14	-	393
12-3-68	132	44	132	-	-	-	88	-	396
12-9-68	306	72	126	18	-	-	36	-	558
12-18-68	124	36	90	-	-	-	90	-	340
12-24-68	126	126	108	-	-	-	18	-	378
12-31-68	234	54	126	18	-	18	36	36	522

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Huron (A-12-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-4-68	1,012	968	66	-	-	-	44	66	2,156
3-12-68	2,046	1,914	220	-	22	22	22	88	4,334
3-18-68	2,310	1,144	110	-	22	-	-	88	3,674
3-26-68	12,276	2,684	88	-	-	-	-	220	15,268
4-2-68	2,684	2,156	132	-	-	-	264	66	5,302
4-9-68	660	990	176	-	-	22	176	132	2,156
4-16-68	160	60	240	-	-	-	100	160	720
4-									
4-23-68	308	165	242	-	-	-	55	22	792
4-30-68	528	88	332	-	-	-	-	-	948
5-7-68	1,012	253	308	11	11	22	55	55	1,727
5-15-68	726	176	484	11	22	66	143	22	1,650
5-21-68	242	88	506	22	-	44	44	-	946
5-27-68	1,738	154	528	-	-	-	132	44	2,596
6-12-68	20	-	120	-	-	-	60	-	200
6-18-68	320	-	760	20	-	-	220	20	1,340
6-25-68	418	22	198	-	-	-	66	-	704
7-02-68	200	20	220	-	-	-	120	-	560
7-09-68	160	-	120	-	-	-	40	-	320
7-16-68	66	11	66	-	-	-	22	-	165
7-23-68	286	22	176	22	-	22	682	264	1,474
7-30-68	140	20	80	-	-	260	40	180	720
8-06-68	180	-	20	-	-	-	20	100	320
8-20-68	396	22	132	-	22	132	132	-	836
8-27-68	80	40	120	40	320	1,480	160	40	2,280
9-4-68	120	80	360	-	420	100	100	-	1,180
9-10-68	72	-	54	-	18	18	18	-	180
9-17-68	180	36	108	18	18	18	54	-	432
9-24-68	40	20	240	-	40	20	180	-	540
10-1-68	130	70	210	-	-	130	100	-	640
10-9-68	36	18	252	-	18	36	-	-	360
10-14-68	126	18	72	-	-	-	18	-	234
10-21-68	90	54	162	-	-	-	18	-	324
10-29-68	242	11	110	-	-	55	22	-	440
11-5-58	96	12	168	12	-	24	60	-	372
11-12-68	220	88	110	-	-	616	22	-	1,056
11-19-68	88	55	77	-	-	132	-	-	352
12-3-68	120	30	165	-	15	-	30	-	360
12-11-68	306	36	252	-	-	-	36	-	630
12-18-68	234	72	288	-	-	-	-	-	594
12-23-58	162	36	252	-	-	-	36	-	486
12-31-68	96	60	48	-	-	-	12	-	216

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Vermilion (B-14-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,222	1,298	220	22	-	22	-	-	3,784
3-12-68	2,816	3,696	352	-	-	-	-	44	6,908
3-18-68	1,914	704	198	22	-	-	-	-	2,838
3-26-68	1,936	1,056	352	-	-	22	-	44	3,410
4-2-68	1,342	1,012	176	-	-	-	-	22	2,552
4-10-68	726	1,210	198	-	-	-	286	110	2,530
4-16-68	396	451	297	-	22	-	154	209	1,529
4-23-68	275	66	275	-	-	-	22	44	682
4-30-68	605	66	341	-	-	-	-	66	1,078
5-7-68	1,562	682	792	22	-	-	88	22	3,168
5-14-68	1,012	418	550	22	-	66	88	22	2,178
5-21-68	800	80	940	-	-	-	240	20	2,080
5-27-68	1,914	660	264	-	-	22	44	-	2,904
6-04-68	80	-	260	-	20	-	100	-	460
6-12-68	132	44	220	-	22	-	110	22	550
6-18-68	44	-	220	-	-	-	-	-	264
6-25-68	704	22	462	22	-	-	22	-	1,232
7-02-68	140	20	220	-	-	-	120	-	500
7-09-68	75	-	45	-	-	-	105	-	225
7-16-68	10	-	30	-	10	-	20	-	70
7-23-68	100	-	110	-	10	10	30	50	310
7-30-68	40	-	40	-	-	-	80	180	340
8-06-68	-	44	132	22	-	-	88	418	704
8-14-68	75	15	90	-	15	30	30	-	255
8-20-68	-	-	200	60	200	200	60	-	720
8-27-68	60	-	160	-	220	6,880	80	-	7,400
9-5-68	40	40	320	40	580	20	60	-	1,100
9-10-68	132	88	198	154	-	-	44	22	638
9-17-68	72	72	234	18	-	-	18	-	414
9-24-68	-	88	198	88	44	-	286	-	704
10-1-68	-	20	320	-	40	-	80	-	460
10-8-68	72	36	162	-	-	-	36	-	306
10-16-68	117	-	171	-	-	-	72	-	360
10-22-68	66	-	110	-	-	55	-	-	231
10-29-68	336	140	84	-	28	28	112	-	728
11-5-68	36	27	162	-	9	27	45	-	306
11-12-68	110	66	165	-	-	11	-	-	352
11-19-68	330	66	44	-	-	176	44	-	660
11-27-68	108	60	180	-	-	36	-	-	384
12-3-68	88	66	132	-	-	-	-	-	286
12-10-68	378	36	54	36	-	-	18	-	522
12-17-68	324	18	126	-	-	-	-	-	468
12-24-68	180	18	90	-	-	-	36	-	324
12-31-68	324	54	126	-	-	-	18	-	522

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Elyria (B-16-06)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,156	1,474	220	-	-	88	-	-	3,938
3-12-68	2,838	2,266	286	-	-	-	-	-	5,390
3-18-68	1,804	1,232	176	-	44	-	22	22	3,300
3-26-68	7,788	2,420	528	-	-	-	44	132	10,912
4-2-68	1,452	2,112	110	-	-	22	132	44	3,872
4-09-68	200	320	240	-	-	-	260	100	1,120
4-16-68	836	704	110	-	22	-	22	132	1,826
4-23-68	319	121	330	-	-	-	22	66	858
4-30-68	781	319	264	-	-	-	11	77	1,452
5-									
5-15-68	1,034	198	1,320	22	-	66	66	44	2,750
5-									
5-27-68	1,089	187	363	-	-	-	110	-	1,749
6-04-68	230	-	418	-	-	-	264	-	912
6-12-68	360	-	280	-	-	-	200	20	860
6-18-68	22	22	132	-	-	-	88	-	264
6-25-68	460	-	240	-	20	-	80	-	800
7-02-68	80	-	240	-	-	-	220	-	540
7-09-68	55	-	11	-	-	-	-	-	66
7-23-68	90	-	140	20	-	-	70	40	360
7-30-68	40	-	60	-	-	-	600	300	1,000
8-06-68	-	66	176	-	-	-	110	220	572
8-20-68	-	20	280	-	20	300	80	-	700
8-27-68	160	120	400	-	1,320	3,600	200	40	5,840
9-5-68	80	40	400	40	1,520	-	160	-	2,240
9-10-68	-	-	-	22	22	22	-	-	66
9-18-68	90	90	198	108	-	-	-	-	486
10-1-68	40	20	340	40	20	-	180	-	640
10-8-68	54	18	181	-	18	-	9	-	280
10-15-68	36	-	315	9	9	-	27	18	414
10-29-68	242	176	308	-	44	132	22	-	924
11-5-68	36	36	198	-	-	36	72	-	378
11-20-68	228	46	96	24	-	168	48	-	660
12-3-68	264	44	154	-	-	22	22	-	506
12-17-68	306	54	36	-	-	-	36	36	468

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Lorsain (B-16-05)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	5,918	3,982	220	22	-	44	44	-	10,230
3-12-68	2,442	2,244	110	-	22	-	22	44	4,884
3-18-68	1,628	1,408	242	44	66	-	22	22	3,432
3-26-68	2,684	2,420	264	-	-	-	-	-	5,368
4-2-68	3,124	3,300	132	44	-	44	44	-	6,688
4-09-68	440	420	320	-	20	-	100	100	1,400
4-16-68	550	286	352	-	-	22	110	264	1,584
4-23-68	319	99	481	-	-	11	22	77	1,009
4-30-68	924	374	396	-	-	-	-	22	1,714
5-02-68	792	132	396	176	-	110	110	-	1,716
5-07-68	1,936	330	770	22	-	-	44	22	3,124
5-14-68	1,980	484	1,430	22	110	88	22	22	4,158
5-27-68	1,210	154	132	22	-	-	44	44	1,606
6-04-68	132	-	352	-	22	-	902	-	1,408
6-12-68	154	22	198	-	-	-	462	-	836
6-18-68	44	-	308	-	22	-	132	-	506
6-25-68	176	22	220	-	22	-	22	-	462
7-02-68	154	-	154	-	22	-	110	-	440
7-09-68	22	-	77	-	-	-	44	-	143
7-16-68	22	-	44	11	-	11	77	-	165
7-23-68	60	-	105	-	-	-	30	15	210
7-30-68	40	-	110	-	-	-	80	140	370
8-07-68	20	-	180	-	20	80	60	60	420
8-13-68	40	40	40	-	40	20	-	20	200
8-20-68	44	88	88	88	110	264	22	-	704
8-27-68	100	20	140	20	640	1,820	60	40	2,840
9-5-68	20	60	420	-	1,240	80	60	-	1,880
9-10-68	-	126	234	18	-	-	90	-	468
9-18-68	126	162	198	18	18	-	-	-	522
9-24-68	-	40	220	-	-	-	140	-	400
10-1-68	40	220	320	-	20	-	120	-	720
10-15-68	36	-	162	-	-	-	-	-	198
10-22-68	88	22	242	-	-	44	22	-	418
10-29-68	120	36	168	-	-	36	-	-	360
11-5-68	90	54	162	-	-	54	108	-	468
11-13-68	228	72	168	-	12	36	-	-	516
11-20-68	288	84	240	12	-	168	-	-	792
11-26-68	108	54	81	-	-	18	9	-	270
12-3-68	168	90	195	-	-	-	15	-	465
12-10-68	180	106	198	-	-	-	18	-	502
12-17-68	378	216	108	36	-	36	36	-	810
12-24-68	No sample								
12-31-68	216	162	90	-	-	18	-	-	486

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Avon Lake (C-18-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	
3-5-68	1,056	1,452	198	-	44	-	44	66	2,860
3-12-68	1,320	1,232	330	22	-	-	-	44	2,948
3-19-68	2,794	1,474	330	-	22	22	88	-	4,730
3-26-68	1,364	1,386	264	22	-	-	22	88	3,146
4-3-68	1,188	1,386	308	-	-	-	22	-	2,904
4-09-68	560	1,040	320	-	-	40	40	80	2,080
4-16-68	484	550	308	-	-	-	44	44	1,430
4-23-68	352	176	220	-	-	-	66	132	946
4-30-68	746	154	88	-	-	-	-	44	1,032
5-8-68	1,914	616	1,254	-	22	-	66	44	3,916
5-15-68	1,034	22	682	22	-	-	66	22	1,848
5-21-68	506	44	572	-	-	22	66	-	1,210
5-27-68	341	352	198	11	-	-	44	-	946
6-04-68	100	-	280	-	-	-	200	20	600
6-12-68	242	-	374	-	22	-	264	22	924
6-18-68	22	-	66	-	-	-	22	22	132
6-25-68	396	22	264	44	-	-	-	-	726
7-02-68	220	40	260	-	-	-	100	40	660
7-09-68	22	-	66	22	-	-	88	-	198
7-16-68	-	-	135	-	-	15	300	15	465
7-23-68	198	66	176	198	-	-	22	-	660
7-30-68	40	20	80	20	40	-	60	120	380
8-07-68	-	-	22	176	-	-	110	44	352
8-13-68	-	-	60	-	120	60	60	40	340
8-20-68	-	40	280	-	340	640	160	40	1,500
8-27-68	22	44	132	-	814	3,036	22	-	4,070
9-5-68	40	20	480	80	1,200	40	60	-	1,920
9-12-68	90	54	180	-	18	-	72	-	414
9-18-68	-	66	110	-	-	-	-	22	198
10-2-68	45	30	180	45	-	-	150	-	450
10-8-68	45	90	117	-	-	-	54	-	306
10-15-68	54	18	288	-	-	-	-	18	378
10-22-68	90	36	144	-	-	9	72	-	351
10-29-68	132	132	308	-	-	22	22	-	616
11-5-68	-	-	132	-	-	22	88	-	242
11-12-68	135	54	135	-	-	18	18	-	360
11-20-68	288	108	270	-	-	126	-	-	792
11-26-68	132	24	180	-	-	60	12	-	408
12-4-68	150	90	195	-	-	15	45	-	495
12-17-68	432	90	144	18	-	-	18	-	702
12-24-68	270	18	90	18	-	-	-	-	396
12-31-58	126	54	90	-	-	-	36	-	306

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Crown (C-20-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-5-68	2,068	1,672	242	44	-	-	-	88	4,114
3-12-68	2,200	1,562	352	-	-	-	-	-	4,114
3-19-68	2,552	2,134	198	-	-	22	22	44	4,972
3-26-68	1,012	1,650	176	-	-	-	22	-	2,860
4-3-68	1,012	946	220	-	-	22	264	44	2,508
4-09-68	480	100	240	-	-	-	100	200	1,120
4-16-68	968	407	264	-	-	-	33	187	1,859
4-23-68	616	88	385	-	-	-	77	77	1,243
4-30-68	858	308	440	-	-	-	-	-	1,606
5-7-68	1,166	264	814	-	-	-	22	44	2,310
5-15-68	858	110	264	22	-	-	55	11	1,320
5-22-68	132	44	132	-	-	-	154	-	462
5-27-68	506	33	176	-	-	-	33	-	748
6-05-68	120	-	120	-	-	-	60	20	320
6-12-68	120	20	100	-	-	-	20	-	260
6-19-68	80	-	60	-	-	20	20	-	180
6-26-68	940	60	100	-	-	20	40	-	1,160
7-10-68	110	22	44	22	-	-	-	-	198
7-16-68	120	-	90	-	-	-	150	-	360
7-24-68	50	10	40	50	-	-	10	-	160
7-30-68	66	66	44	-	-	-	132	66	374
8-08-68	75	15	105	60	-	-	45	60	360
8-14-68	10	10	70	-	-	30	20	-	140
8-22-68	-	-	140	-	20	20	40	-	220
8-27-68	66	66	220	-	66	308	44	-	770
9-5-68	-	-	50	20	-	-	80	-	150
9-10-68	-	66	-	-	-	-	88	-	154
9-18-68	54	-	36	-	-	-	54	-	144
10-2-68	20	10	160	-	-	-	60	20	270
10-8-68	36	90	140	-	-	36	-	-	306
10-15-68	36	-	162	-	-	-	-	-	198
10-22-68	28	14	252	14	-	14	168	-	490
10-29-68	306	288	522	18	-	54	90	-	1,278
11-5-68	48	24	180	-	-	12	36	-	300
11-20-68	925	1,073	1,295	37	-	222	74	-	3,626
11-26-68	66	44	22	22	-	22	44	-	220
12-4-68	66	33	110	-	11	11	55	-	286
12-10-68	208	36	162	18	-	18	18	18	478
12-17-68	486	72	90	90	-	-	18	-	756
12-24-68	264	88	132	-	-	44	66	-	594

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Division (C-21-03)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	1,408	572	110	-	-	-	-	22	2,112
3-12-68	1,914	1,628	176	22	22	22	-	-	3,784
3-19-68	1,298	770	176	-	-	-	22	-	2,266
3-26-68	1,870	1,408	330	-	-	22	88	110	3,828
4-3-68	1,232	1,078	132	-	-	-	88	110	2,640
4-10-68	528	198	198	22	-	-	88	44	1,078
4-16-68	260	160	520	-	-	-	40	100	1,080
4-30-68	704	176	363	11	-	-	22	132	1,408
5-7-68	1,782	220	726	-	-	-	-	22	2,750
5-15-68	880	66	660	-	22	-	220	66	1,914
5-21-68	462	22	66	-	-	-	220	-	770
5-29-68	814	22	396	-	-	-	198	-	1,430
6-11-68	66	22	110	-	-	-	264	-	462
6-12-68	110	-	66	-	-	-	88	22	286
6-18-68	75	-	135	-	-	-	-	-	210
6-26-68	1,034	22	132	-	-	-	66	-	1,254
7-02-68	40	20	100	-	-	-	680	-	840
7-10-68	-	-	60	-	-	-	40	-	100
7-16-68	-	-	22	242	-	-	132	-	396
7-24-68	-	-	110	20	-	-	70	-	200
7-30-68	-	-	45	30	-	-	45	15	135
8-09-68	-	10	80	20	-	-	30	-	140
8-20-68	-	-	180	20	280	-	-	-	480
8-21-68	-	-	140	-	20	220	-	-	380
8-28-68	11	-	44	-	77	88	11	-	231
9-5-68	40	10	220	40	30	80	-	-	420
9- -68									
9-18-68	54	18	162	0	-	36	36	-	306
9-24-68	22	-	242	22	22	22	44	-	374
10-1-68	20	-	130	-	-	-	20	-	170
10-8-68	72	-	90	-	18	-	-	-	180
10-15-68	44	-	44	22	44	44	176	-	374
10-22-68	90	90	27	-	18	-	9	-	234
10-30-68	88	110	220	-	-	-	132	-	550
11-5-68	81	-	144	-	-	18	45	-	288
11-12-68	418	242	396	-	-	44	-	-	1,100
11-19-68	187	44	176	-	-	44	-	11	462
12-3-68	66	66	66	-	-	22	-	-	220
12-10-68	528	66	220	-	-	-	44	-	858
12-18-68	946	242	286	-	-	-	132	22	1,628

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Baldwin (C-21-04)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	1,694	264	132	-	22	-	66	44	2,222
3-19-68	1,254	638	220	22	-	-	154	110	2,398
3-26-68	1,474	990	176	-	-	-	132	-	2,772
4-3-68	1,452	814	242	-	-	-	88	88	2,684
4-9-68	1,166	528	418	-	22	-	110	88	2,332
4-16-68	440	40	700	-	-	-	120	60	1,360
4-23-68	242	110	330	-	-	-	66	154	902
4-30-68	748	154	902	-	-	-	44	88	1,936
5-7-68	1,144	88	1,056	-	-	-	44	-	2,332
5-15-68	682	66	440	-	11	22	132	44	1,397
5-21-68	242	132	198	-	-	44	548	-	1,164
5-29-68	704	22	528	-	22	-	132	-	1,408
6-04-68	30	-	20	10	-	-	30	10	100
6-12-68	-	-	40	20	-	-	240	-	300
6-18-68	-	-	77	-	-	-	77	-	154
6-25-68	-	-	40	-	-	-	80	-	120
7-02-68	20	-	300	-	-	-	720	-	1,040
7-10-68	22	11	22	-	-	-	55	-	110
7-16-68	-	-	80	200	60	20	520	-	880
7-23-68	-	15	60	60	-	-	135	45	315
7-30-68	10	-	60	80	-	-	70	110	330
8-09-68	-	15	105	45	-	30	15	60	270
8-13-68	10	-	70	60	-	-	-	-	140
8-21-68	-	-	44	22	-	242	22	-	330
8-27-68	60	-	80	-	40	40	-	-	220
9-5-68	-	20	160	-	160	60	60	20	480
9-10-68	18	18	90	-	-	36	36	-	198
9-17-68	52	26	182	-	26	52	26	-	364
9-24-68	-	-	210	20	-	20	20	-	370
10-1-68	66	33	99	-	11	-	33	-	242
10-8-68	36	24	120	-	-	12	12	-	204
10-15-68	55	11	176	-	22	33	44	-	341
10-22-68	18	18	90	-	-	-	-	-	126
10-30-68	77	154	209	-	-	11	11	-	462
11-5-68	44	11	77	-	-	-	11	-	143
11-19-68	264	154	264	-	-	88	-	-	770
11-26-68	45	63	36	-	-	9	27	-	180
12-3-68	99	33	110	-	-	-	-	-	242
12-10-68	270	18	126	-	-	18	-	-	432
12-18-68	414	18	108	18	-	-	36	-	594
12-24-68	748	484	132	-	-	-	-	-	1,364

TABLE 7.(Continued)

WATER INTAKE STUDY

PLANKTON

Cleveland-Nottingham (D-23-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocccoid	Filamentous	Cocccoid	Filamentous	Green	Other	
3-6-68	748	286	374	-	22	-	-	66	1,496
3-12-68	946	352	110	22	-	-	-	22	1,452
3-19-68	2,178	396	176	-	-	-	22	22	2,794
3-26-68	1,210	506	396	-	-	-	88	88	2,288
4-2-68	1,078	880	110	-	-	-	44	110	2,222
4-10-68	360	40	120	-	-	-	180	80	780
4-16-68	924	506	396	-	-	-	132	110	2,068
4-23-68	462	220	330	-	-	-	-	110	1,122
4-30-68	748	66	440	-	-	-	-	132	1,386
5-6-68	990	88	924	-	-	-	22	22	2,046
5-15-68	1,034	99	297	-	-	-	22	33	1,485
5-21-68	460	180	480	-	-	-	20	-	1,140
5-29-68	704	154	154	22	-	-	154	-	1,188
6-05-68	44	11	44	-	-	-	-	-	99
6-11-68	44	44	22	-	-	-	-	-	110
6-18-68	10	20	60	-	-	-	10	10	110
6-25-68	33	-	66	11	-	-	-	-	110
7-10-68	20	-	40	50	-	-	20	-	130
7-16-68	40	-	100	110	-	-	-	-	250
7-23-68	-	-	88	209	-	-	22	11	330
7-30-68	20	-	100	30	10	-	120	40	320
8-07-68	30	-	110	60	-	-	20	10	230
8-13-68	-	-	120	10	-	-	20	-	150
8-21-68	-	-	100	-	-	-	20	30	150
8-28-68	15	75	75	30	-	-	60	-	255
9-5-68	20	20	240	40	40	20	-	-	380
9-10-68	36	18	90	-	-	-	-	36	180
9-17-68	36	18	162	-	90	-	90	-	396
9-24-68	36	-	162	-	-	-	-	-	198
10-1-68	-	22	110	11	-	-	33	-	176
10-9-68	84	36	24	12	-	-	-	-	156
10-15-68	60	24	120	-	-	-	12	12	228
10-28-68	144	54	180	18	-	-	18	-	414
10-29-68	99	81	216	18	18	9	18	-	459
11-5-68	77	-	77	-	-	-	11	-	165
11-19-68	110	22	198	22	-	44	-	-	396
11-26-68	153	36	81	-	-	9	9	-	288
12-3-68	44	55	99	-	-	-	-	-	198
12-12-68	126	36	72	18	-	-	18	-	270
12-18-68	252	36	108	-	-	-	18	-	414
12-24-68	126	18	90	-	-	-	18	-	252
12-31-68	72	12	132	-	-	-	24	-	240

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Mentor (E-26-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocccoid	Filamentous	Cocccoid	Filamentous	Green	Other	
3-6-68	1,914	154	110	22	-	-	-	22	2,222
3-12-68	2,540	308	110	-	66	-	-	44	3,068
3-19-68	6,930	418	440	-	22	-	22	22	7,854
3-26-68	12,364	220	440	-	-	-	-	-	13,024
4-2-68	12,452	792	528	-	-	-	132	88	13,992
4-9-68	1,232	1,254	242	-	-	-	110	154	2,992
4-16-68	660	528	726	-	-	-	132	22	2,068
4-23-68	594	121	462	-	-	-	33	176	1,386
4-30-68	825	231	429	-	-	-	-	44	1,529
5-7-68	1,078	88	770	-	-	22	-	22	1,980
5-14-68	792	44	638	-	22	-	-	-	1,496
5-21-68	860	60	460	-	-	20	-	20	1,420
5-29-68	1,298	726	352	-	-	-	22	22	2,420
6-04-68	110	44	66	-	-	-	198	-	418
6-11-68	88	-	132	-	-	-	88	-	308
6-19-68	22	-	22	-	-	-	66	-	110
6-25-68	220	22	154	-	-	-	-	-	396
7-02-68	220	-	140	-	-	-	200	-	560
7-10-68	-	-	140	40	-	-	200	20	400
7-16-68	44	66	176	198	-	-	286	-	770
7-23-68	70	30	130	40	-	-	50	-	320
7-30-68	60	105	195	30	15	-	135	-	540
8-09-68	-	-	200	60	-	-	20	-	280
8-20-68	22	22	286	-	-	66	22	-	418
8-27-68	80	20	140	20	1,280	400	20	20	1,980
9-3-68	20	20	240	40	100	80	20	-	520
9-4-68	40	-	320	-	1,240	240	80	120	2,040
9-10-68	-	36	108	-	-	-	18	-	162
9-17-68	-	18	126	-	-	18	18	-	180
9-25-68	-	80	480	-	480	120	180	-	1,340
10-1-68	-	40	500	-	-	40	120	20	720
10-9-68	22	44	220	22	22	-	-	-	330
10-15-68	54	-	126	-	54	-	198	18	450
10-23-68	126	36	306	18	-	36	18	-	540
10-29-68	33	55	165	-	11	11	-	-	275
11-5-68	75	15	105	-	-	-	75	-	270
11-12-68	84	14	126	-	-	28	28	-	280
11-19-68	132	55	77	-	-	22	-	-	286
11-26-68	110	154	176	-	-	44	-	-	484
12-3-68	117	18	54	-	-	27	18	-	234
12-10-68	234	36	108	-	-	-	-	-	378
12-18-68	72	-	72	-	-	-	54	-	198
12-24-68	330	308	44	-	-	-	-	-	682
12-31-68	154	110	66	-	-	-	33	-	363

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Painesville (F-27-18)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-6-68	4,202	286	242	-	22	-	-	44	4,796
3-13-68	5,478	132	242	22	-	-	-	-	5,874
3-19-68	5,852	264	308	-	-	-	-	-	6,424
3-26-68	6,644	264	264	-	-	-	132	88	7,392
4-2-68	20,724	269	396	-	-	-	44	-	21,433
4-10-68	1,100	594	484	-	44	-	154	-	2,376
4-16-68	380	320	700	-	-	-	-	60	1,460
4-24-68	1,122	858	264	-	-	-	22	22	2,208
4-30-68	726	418	352	22	-	-	22	-	1,540
5-7-68	968	110	638	-	-	-	-	-	1,716
5-14-68	638	154	550	22	-	22	44	66	1,496
5-									
5-29-68	1,144	220	550	-	44	-	88	-	2,046
6-05-68	75	-	15	15	-	-	105	-	210
6-11-68	80	60	60	-	-	-	180	-	380
6-18-68	-	-	20	-	-	-	40	-	60
6-25-68	40	60	280	-	-	-	700	-	1,080
7-02-68	300	40	380	-	20	-	220	-	960
7-10-68	140	-	100	-	-	-	80	20	340
7-16-68	110	44	352	22	22	-	528	-	1,078
7-23-68	44	22	176	110	-	-	110	-	462
7-30-68	45	15	90	30	-	-	195	45	420
8-09-68	-	26	208	13	-	-	117	13	377
8-16-68	66	-	330	-	44	198	22	-	660
8-20-68	44	44	506	-	110	154	22	44	924
8-27-68	40	20	160	-	500	60	40	-	820
9-3-68	-	120	760	-	1,280	160	40	-	2,360
9-10-68	-	36	72	-	-	-	18	-	126
9-17-68	-	-	126	-	-	-	18	-	144
9-25-68	-	-	260	-	60	20	200	-	540
10-1-68	60	30	525	15	-	-	90	-	720
10-9-68	18	18	90	-	-	36	18	18	198
10-15-68	36	9	252	9	9	9	72	-	396
10-22-68	-	-	504	-	-	-	112	-	616
10-29-68	66	88	121	-	-	33	33	-	341
11-5-68	22	11	121	-	-	-	77	-	231
11-13-68	108	72	90	-	-	-	36	-	306
11-19-68	108	72	36	-	-	18	-	-	234
11-26-68	168	36	96	-	-	36	24	-	360
12-3-68	143	33	33	-	-	-	-	-	209
12-10-68	180	18	18	18	-	-	36	-	270
12-18-68	126	18	90	-	-	-	-	-	234
12-24-58	242	264	-	-	-	-	-	-	506
12-31-68	117	54	45	-	-	-	18	-	234

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ohio Water Service-Madison (G-30-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Coccoid	Filamentous	Coccoid	Filamentous	Green	Other	
3-7-68	2,442	396	198	-	-	-	22	-	3,058
3-12-68	4,312	220	264	-	-	-	-	-	4,796
3-19-68	13,244	396	176	-	22	-	44	44	13,926
3-26-68	17,732	308	88	-	-	-	-	44	18,172
4-2-68	220	704	176	-	-	-	-	-	1,100
4-09-68	880	280	420	-	-	-	80	100	1,760
4-16-68	484	440	220	-	-	-	286	44	1,474
4-26-68	638	374	374	22	-	-	-	-	1,408
4-30-68	770	66	572	-	-	-	-	44	1,452
5-7-68	594	154	572	-	22	-	-	88	1,430
5-14-68	825	165	319	-	-	33	-	-	1,342
5-21-68	240	100	120	-	-	-	20	-	480
5-29-68	1,012	286	528	22	-	-	44	22	1,914
6-04-68	120	60	120	-	-	-	60	-	360
6-11-68	88	88	-	-	-	-	44	-	220
6-18-68	30	-	30	-	-	-	30	-	90
6-25-68	200	40	340	20	-	-	40	-	640
7-02-68	320	20	340	20	-	-	200	20	920
7-16-68	-	40	300	440	-	-	180	20	980
7-23-68	160	80	60	120	-	-	20	-	440
7-30-68	44	22	88	88	-	-	-	-	242
8-09-68	10	-	90	10	-	10	30	-	150
8-13-68	22	22	44	22	-	-	-	22	132
8-20-68	66	44	220	-	110	44	22	-	506
8-27-68	-	40	200	-	1,520	320	-	-	2,080
9-3-68	20	40	400	40	60	120	40	-	720
9-10-68	-	88	110	22	-	-	110	-	330
9-17-68	-	36	126	-	-	18	18	36	234
9-24-68	10	-	260	20	30	-	120	10	450
10-1-68	22	66	638	22	-	44	132	-	924
10-8-68	11	22	143	-	-	11	11	-	198
10-15-68	27	-	81	27	-	-	18	-	153
10-22-68	-	66	374	-	-	-	66	22	528
10-29-68	72	126	252	-	-	-	18	-	468
11-5-68	45	9	99	-	-	-	18	-	171
11-12-68	90	-	36	-	-	-	-	-	126
11-19-68	144	126	180	-	-	-	-	-	450
11-26-68	165	30	15	-	-	15	-	-	225
12-3-68	132	44	55	-	-	22	11	-	264
12-10-68	90	-	18	-	-	18	-	-	126
12-18-68	308	198	132	-	-	22	22	-	682
12-24-68	66	99	55	11	-	-	-	-	231

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Ashtabula (G-33-03)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocoid	Filamentous	Cocoid	Filamentous	Green	Other	
3-7-68	2,068	176	154	-	-	22	-	-	2,420
3-12-68	3,718	220	198	-	-	-	-	22	4,158
3-									
3-26-68	4,378	88	154	-	-	-	66	88	4,774
4-2-68	10,164	176	308	-	-	44	44	-	10,736
4-10-68	1,704	640	640	-	-	-	80	40	3,104
4-16-68	1,804	748	1,078	-	-	-	154	22	3,806
4-24-68	3,784	2,112	1,364	-	-	-	-	220	7,480
4-30-68	803	187	231	-	-	-	-	44	1,265
5-									
5-14-68	880	22	682	-	-	-	44	-	1,628
5-21-68	440	240	120	60	-	-	40	40	940
5-28-68	330	198	440	-	-	-	44	-	1,012
6-04-68	50	30	150	20	10	-	110	50	420
6-11-68	22	-	66	-	-	-	220	-	308
6-19-68	45	30	-	90	-	-	45	-	210
6-25-68	20	-	160	20	-	-	40	-	240
7-02-68	20	20	240	-	20	-	40	-	340
7-10-68	20	10	50	10	-	-	-	10	100
7-16-68	22	88	374	572	-	-	440	-	1,496
7-23-68	-	45	75	300	-	-	-	-	420
7-31-68	-	22	132	44	22	-	-	22	242
8-09-68	-	40	120	-	20	-	40	20	240
8-13-68	280	20	300	-	-	120	160	20	900
8-20-68	-	10	40	-	20	-	10	10	90
9-3-68	-	40	300	-	40	160	80	-	620
9-10-68	18	-	162	-	-	18	-	-	198
9-17-68	-	-	200	20	100	-	20	-	340
9-23-68	-	36	270	-	-	18	90	-	414
10-1-68	44	176	528	44	-	-	44	-	836
10-15-68	9	9	162	-	-	-	9	18	207
10-22-58	36	-	63	-	18	-	-	-	117
10-29-68	176	198	550	22	-	-	44	-	990
11-5-68	12	12	108	-	-	-	-	-	132
11-14-68	55	22	66	-	-	-	-	-	143
11-19-68	84	84	168	-	-	-	12	-	348
12-3-68	126	9	18	-	-	36	-	-	189
12-10-68	72	18	36	-	-	36	18	-	180
12-17-68	234	-	36	-	-	-	-	-	270
12-24-68	108	60	84	-	-	12	-	-	264
12-31-68	22	44	33	-	-	-	22	-	121

TABLE 7 (Continued)

WATER INTAKE STUDY

PLANKTON

Eastlake (E-25-01)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./ml
	Centric	Pennate	Cocccoid	Filamentous	Cocccoid	Filamentous	Green	Other	
10-1-68	120	20	320	20	-	60	80	-	620
10-16-68	36	-	90	-	18	36	126	18	324
10-28-68	54	72	90	-	-	18	-	-	234
11-6-68	37	37	222	37	-	-	37	-	370
11-18-68	121	-	33	-	-	11	-	-	165
12-18-68	126	18	36	18	-	-	36	-	234

TABLE 7 (Concluded)

WATER INTAKE STUDY

PLANKTON

Conneaut (H-36-05)

Date	DIATOMS		GREEN		BLUE-GREEN		FLAGELLATES		Total No./Ml.
	Centric	Pennate	Cocccoid	Filamentous	Cocccoid	Filamentous	Green	Other	
3-7-68	847	88	99	-	-	-	-	-	1,034
3-12-68	2,684	220	264	-	-	-	-	-	3,168
3-19-68	2,778	308	88	22	-	-	-	22	3,168
3-26-68	1,804	66	22	-	-	-	22	-	1,914
4-2-68	13,860	220	396	-	-	-	-	-	14,476
4-10-68	3,212	88	176	-	-	-	22	44	3,542
4-15-68	1,782	440	1,364	22	22	-	176	154	3,960
4-23-68	704	44	484	22	44	-	22	66	1,386
4-29-68	No Sample								
5-7-68	1,276	132	990	-	-	-	-	-	2,398
5-14-68	275	55	374	-	-	-	11	22	737
5-21-68	88	44	198	-	-	-	66	-	396
5-27-68	1,012	242	396	22	-	-	66	-	1,738
6-04-68	44	-	110	-	-	-	176	-	330
6-10-68	-	20	40	-	-	-	-	-	60
6-18-68	22	22	-	-	-	-	22	-	66
6-20-68	10	-	50	20	-	-	-	-	80
7-02-68	-	-	40	-	-	-	-	-	40
7-09-68	-	-	140	-	-	-	40	-	180
7-16-68	-	-	220	140	-	-	520	-	880
7-22-68	10	20	80	40	10	-	20	60	240
7-30-68	40	20	180	20	20	-	80	60	420
8-06-68	-	40	120	340	-	-	20	-	520
8-09-68	40	-	140	240	20	20	20	-	480
8-13-68	-	-	80	-	-	380	-	20	480
8-19-68	-	20	100	-	80	220	80	20	520
8-27-68	88	66	154	44	88	66	44	-	550
9-3-68	-	60	200	100	940	40	-	-	1,340
9-10-68	-	-	110	44	-	-	44	-	198
9-16-68	-	18	36	-	-	-	90	36	180
9-25-68	Not Preserved								
9-30-68	66	88	550	44	-	-	44	-	792
10-8-68	-	-	132	-	-	-	72	-	204
10-14-68	11	22	275	-	-	-	33	-	341
10-22-68	-	18	90	-	-	-	-	-	108
10-28-68	48	36	36	12	-	-	24	-	156
11-4-68	9	-	63	-	-	-	-	9	81
11-12-68	56	42	168	-	-	-	84	-	350
11-18-68	45	18	126	-	-	-	-	-	189
11-26-68	132	22	-	-	-	22	-	-	176
12-2-68	135	15	45	-	-	60	15	-	270
12-10-68	220	170	66	-	-	22	44	-	528
12-17-68	198	90	36	-	-	-	-	-	324
12-24-68	195	75	30	-	-	-	-	-	315
12-31-68	162	72	36	-	155	-	15	-	270

TABLE 8

DOMINANT PHYTOPLANKTON

Station E-03-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Asterionella	770	594		1,760
3-12-68	Cyclo-Steph*	5,852	1,364	Trachelomonas	7,788
3-18-68	Cyclo-Steph	28,160	1,625	132	30,536
3-26-68	Cyclo-Steph	2,948	528	176	3,916
4-1-68	Cyclo-Steph	21,604	1,188	880	24,420
4-9-68	Asterionella	440	140	60	900
4-15-68	Cyclo-Steph	1,826	704	330	4,740
4-23-68	Melosira	1,980	Melosira	Ankistrodesmus	4,740
4-29-68	Cyclo-Steph	682	638	110	3,212
5-7-68	Melosira	1,914	528	Scenedesmus	1,916
5-14-68	Melosira	1,562	968	Scenedesmus	3,322
5-26-68	Melosira	572	572	Ankistrodesmus	4,774
5-27-68	Cyclo-Steph	1,626	836	Tetrastrum	2,156
6-04-68	Melosira	520	400	Tetrastrum	5,280
6-11-68	Melosira	1,232	528	Tetrastrum	1,760
6-18-68	Melosira	1,892	1,452	Oocystis	2,508
6-24-68	Scenedesmus	2,200	1,100	Oocystis	5,852
7-02-68	Scenedesmus	260	240	Tetrastrum	8,118
7-09-68	Cyclo-Steph	920	880	Tetrastrum	860
7-16-68	Phacus	242	110	Tetrastrum	3,680
7-23-68	Phacus	220	80		814
7-30-68	Cyclo-Steph	105	90		500
8-06-68	Cyclo-Steph	120	100		405
8-13-68	Anacystis	2,880	680		520
8-19-68	Anacystis	13,904	1,364	Anabaena	4,000
8-27-68	Anacystis	7,600	3,640	Gomphospaeria	17,336
9-4-68	Anacystis	10,400	1,280	Anabaena	12,440
9-10-68	Aphanizomenon	1,134	90	Oscillatoria	12,720
9-16-68	Oscillatoria	638	242	Cyclo-Steph	1,350
9-24-68	Oscillatoria	1,100	770	Phacotus	1,298
9-30-68	Aphanizomenon	2,904	1,012	Anabaena	2,684
					4,752

* Cyclorella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-03-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Oscillatoria	1,443 Cyclo-Steph	185 Aphanizomenon	148 Diatoma	37 1,813
10-14-68	Aphanizomenon	1,980 Oscillatoria	660 Oocystis	132 Scenedesmus	132 3,212
10-22-68	Oscillatoria	1,776 Aphanizomenon	666 Scenedesmus	74 Phacatus	37 2,590
10-28-68	Aphanizomenon	616 Oedogonium	176 Scenedesmus	132 Fragilaria	66 1,430
11-4-68	Cyclo-Steph	962 Oscillatoria	592 Scenedesmus	370 Melosira	259 3,145
11-12-68	Cyclo-Steph	2,464 Aphanizomenon	1,056 Scenedesmus	220 Melosira	176 4,092
11-19-68	Aphanizomenon	418 Melosira	176 Cyclo-Steph	110 Ankistrodesmus	66 1,034
11-26-69	Cyclo-Steph	1,980 Scenedesmus	308 Aphanizomenon	176 Tetrastrum	132 2,948
12-2-68	Cyclo-Steph	5,724 Scenedesmus	162 Melosira	108 Asterionella	108 6,534
12-10-68	Cyclo-Steph	612 Melosira	36 Phacus	18 Dinobryon	18 818
12-18-68	Cyclo-Steph	522 Ankistrodesmus	126 Scenedesmus	54 Unident.	54 864
12-24-68	Cyclo-Steph	594 Scenedesmus	22 Unident.	Green Coccolid	
			Diatom Pennate	Synedra	11 759
12-31-68	Cyclo-Steph	1,188 Unident.	110 Scenedesmus	22 Aphanizomenon	22 1,342
		Diatom Pennate			

DOMINANT PHYTOPLANKTON

* *Cyclotella-Stephanodiscus*

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-07-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Oscillatoria	Aphanizomenon	360	Cyclo-Steph	162
10-14-68	Aphanizomenon	Cyclo-Steph	111	Pediastrum	111
10-22-68	Oscillatoria	Aphanizomenon	288	Cyclo-Steph	54
10-28-68	Aphanizomenon	Oscillatoria	1,232	Cyclo-Steph	198
11-4-68	Aphanizomenon	Oscillatoria	484	Scenedesmus	264
11-19-68	Scenedesmus	Oscillatoria	198	Cyclo-Steph	180
12-3-68	Cyclo-Steph	Scenedesmus	88	Oedogonium	66
12-10-68	Cyclo-Steph	Scenedesmus	288	Ankistrodesmus	162
12-18-68	Cyclo-Steph	Ankistrodesmus	90	Asterionella	72
12-24-68	Cyclo-Steph	Ankistrodesmus	270	Melosira	252
				Scenedesmus	162
				Oscillatoria	111
				Scenedesmus	54
				Scenedesmus	176
				Melosira	132
				Melosira	126
				Ankistrodesmus	44
				Oedogonium	90
				Trachelomonas	54
				Scenedesmus	72

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-11-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Cyclo-Steph*	3,652	1,210	Synedra	5,412
3-12-68	Asterionella	2,178	1,298		4,422
3-18-68	Cyclo-Steph	4,268	968	Nitzschia	6,424
3-26-68	Cyclo-Steph	21,076	1,496	Ankistrodesmus	24,244
4-2-68	Cyclo-Steph	6,296	1,276		8,448
4-9-68	Asterionella	616	220	Unident. Green Flagellate	1,595
4-15-68	Cyclo-Steph	407	407	Melosira	1,419
4-23-68	Cyclo-Steph	286	286		1,144
4-29-68	Melosira	550	550		1,782
5-7-68	Cyclo-Steph	528	418	Scenedesmus	1,760
5-14-68	Cyclo-Steph	572	396	Oscillatoria	2,398
5-21-68	Aphanizomenon	196	154	Oocystis	1,318
5-27-68	Cyclo-Steph	1,210	264	Scenedesmus	2,398
6-04-68	Aphanizomenon	352	242	Unident. Green Coccoid	1,342
6-12-68	Scenedesmus	120	60		300
6-18-68	Oocystis	220	132	Phacus	748
6-25-68	Cyclo-Steph	180	60		380
7-02-68	Cyclo-Steph	220	100		540
7-09-68	Cyclo-Steph	360	120		700
7-16-68	Cyclo-Steph	33	33		143
7-23-68	Cyclo-Steph	264	132		1,012
7-30-68	Cyclo-Steph	90	90		285
8-06-68	Cyclo-Steph	88	44		187
8-13-68	Cyclo-Steph	462	198		836
8-20-68	Cyclo-Steph	264	242		726
8-27-68	Aphanizomenon	528	374		1,518
9-4-68	Cyclo-Steph	130	126	Pediastrum	50
9-10-68	Cyclo-Steph	198	66	Peridinium	44
9-17-68	Cyclo-Steph	54	36	Staurastrum	198
9-24-68	Phacus	110	60	Cryptomonas	460

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-11-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Aphanizomenon	396 Cyclo-Steph	220 Oocystis	88 Nitzschia	66 1,188
10-8-68	Cyclo-Steph	88 Selenastrum	44 Peridinium	22 Oscillatoria	22 363
10-14-68	Cyclo-Steph	396 Oscillatoria	108 Aphanizomenon	54 Phacatus	36 720
10-22-68	Cyclo-Steph	144 Phacus	126 Aphanizomenon	108 Unident.	54 684
10-28-68	Cyclo-Steph	253 Aphanizomenon	121 Staurostrum	44 Flagellates Green	33 638
11-5-68	Unident. Green Coccolid	144 Cyclo-Steph	90 Phacus	72 Green Coccolid	54 522
11-12-68	Cyclo-Steph	880 Aphanizomenon	616 Staurostrum	396 Oscillatoria	220 2,860
11-19-68	Cyclo-Steph	144 Aphanizomenon	126 Scenedesmus	90 Ankistrodesmus	90 666
11-26-68	Cyclo-Steph	108 Scenedesmus	95 Ankistrodesmus	68 Oocystis	27 393
12-3-68	Cyclo-Steph	132 Unident. Green Coccolid	88 Schroederia	44 Trachomonas	44 396
12-9-68	Cyclo-Steph	288 Scenedesmus	90 Diatoms	36 Micractinium	18 558
12-18-68	Cyclo-Steph	306 Unident. Flagellates Green	54 Phacus	36 Scenedesmus	36 340
12-24-68	Cyclo-Steph	108 Scenedesmus	54 Unident. Diatoms Pennate	54 Asterionella	36 378
12-31-68	Cyclo-Steph	162 Melosira	72 Asterionella	36 Peridinium	36 522

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station A-12-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-4-68	Cyclo-Steph*	858 Asterionella	748 Melosira	154	2,156
3-12-68	Cyclo-Steph	1,716 Asterionella	1,540 Melosira	330	4,334
3-18-68	Cyclo-Steph	1,936 Asterionella	968 Melosira	374	3,674
3-26-68	Cyclo-Steph	11,880 Asterionella	2,464 Melosira	352	15,268
4-2-68	Cyclo-Steph	2,354 Asterionella	1,716 Melosira	330	5,302
4-9-68	Asterionella	902 Melosira	396 Cyclo-Steph	264	2,156
4-16-68	Peridinium	160 Cyclo-Steph	140 Ankistrodesmus	140	720
4-23-68	Cyclo-Steph	176 Ankistrodesmus	154 Melosira	121	792
4-30-68	Melosira	264 Cyclo-Steph	264 Ankistrodesmus	220	948
5-7-68	Melosira	605 Cyclo-Steph	407 Ankistrodesmus	121	1,727
5-15-68	Melosira	418 Cyclo-Steph	308 Ankistrodesmus	99	1,650
5-21-68	Melosira	176 Scenedesmus	176 Tetrastrum	154	946
5-27-68	Cyclo-Steph	1,628 Scenedesmus	132 Melosira	110	2,596
6-12-68	Scenedesmus	60 Phacus	60 Oocystis	40	200
6-18-68	Scenedesmus	320 Cyclo-Steph	220 Oocystis	180	1,340
6-25-68	Cyclo-Steph	396 Oocystis	110 Scenedesmus	44	704
7-02-68	Cyclo-Steph	200 Unident. Green	120 Oocystis	80	560
7-09-68	Cyclo-Steph	140 Oocystis	40 Scenedesmus	40	320
7-16-68	Cyclo-Steph	66 Scenedesmus	22 Staurastrum	22	165
7-23-68	Phacus	528 Cyclo-Steph	286 Ceratium	264	1,474
7-30-68	Aphanizomenon	200 Ceratium	160 Cyclo-Steph	140	720
8-06-68	Cyclo-Steph	180 Ceratium	100 Pediasstrum	20	320
8-20-68	Cyclo-Steph	396 Oocystis	66 Anabaena	66	836
8-27-68	Anabaena	1,440 Agmenellum	280 Phacotus	120	2,280
9-4-68	Anacystis	420 Pediasstrum	200 Cyclo-Steph	120	1,180
9-10-68	Cyclo-Steph	72 Anacystis	18 Staurastrum	18	180
9-17-68	Cyclo-Steph	180 Staurastrum	54 Pediasstrum	36	132
9-24-68	Staurastrum	80 Phacus	60 Phacotus	40	540

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station A-12-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total Nb./ml
10-1-68	Cyclo-Steph	Staurastrum	90 Fragilaria	70 Aphanizomenon	60
10-9-68	Staurastrum	Cyclo-Steph	36 Oocystis	36 Coelastrum	18
10-14-68	Cyclo-Steph	Pediastrum	36 Selenastrum	36 Diatoma	18
10-21-68	Cyclo-Steph	Cosmarium	54 Fragilaria	36 Synedra	18
10-29-68	Cyclo-Steph	Staurastrum	55 Aphanizomenon	44 Cosmarium	33
11-5-68	Cyclo-Steph	Phacus	60 Staurastrum	48 Oocystis	36
11-12-68	Aphanizomenon	Cyclo-Steph	154 Oscillatoria	154 Fragilaria	88
11-19-68	Aphanizomenon	Cyclo-Steph	66 Fragilaria	44 Melosira	22
12-3-68	Cyclo-Steph	Scenedesmus	45 Unident.	45 Phacus	30
			Green Coccoid		
12-11-68	Cyclo-Steph	Ankistrodesmus	90 Scenedesmus	72 Tetrastrum	54
12-18-68	Cyclo-Steph	Ankistrodesmus	108 Scenedesmus	90 Oocystis	36
12-23-68	Cyclo-Steph	Ankistrodesmus	108 Scenedesmus	90 Tetrastrum	36
12-31-68	Cyclo-Steph	Unident. Diatoms Pennate	48 Unident. Green Coccoid	24 Tetrastrum	12

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-14-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Cyclo-Steph*	1,474	1,188	748	3,784
3-12-68	Asterionella	3,080	2,068	748	6,908
3-18-68	Cyclo-Steph	1,672	484	242	2,838
3-26-68	Cyclo-Steph	1,694	990	242	3,410
4-2-68	Cyclo-Steph	1,122	946	220	2,552
4-10-68	Asterionella	1,144	550	176	2,530
4-16-68	Asterionella	407	242	231	1,529
4-23-68	Ankistrodesmus	231	176	99	682
4-30-68	Melosira	319	286	275	1,078
5-7-68	Melosira	814	748	462	3,168
5-14-68	Melosira	594	418	132	2,178
5-21-68	Melosira	440	360	260	2,080
5-27-68	Cyclo-Steph	1,760	264	176	2,904
6-04-68	Scenedesmus	100	80	60	460
6-12-68	Cyclo-Steph	110	88	88	550
6-18-68	Oocystis	66	66	44	264
6-25-68	Cyclo-Steph	682	220	44	1,232
7-02-68	Oocystis	100	Cyclo-Steph	80	500
		Green Flagellate	100		
7-09-68	Cyclo-Steph	75	60	30	225
7-16-68	Cyclo-Steph	10	Oocystis	10	70
7-23-68	Cyclo-Steph	100	Oocystis	50	310
7-30-68	Ceratum	180	Ceratum	40	340
8-06-68	Ceratum	418	Oocystis	44	704
8-14-68	Cyclo-Steph	60	Staurastrum	30	255
8-20-68	Anacystis	200	Staurastrum	60	720
8-27-68	Aphanizomenon	6,740	Oocystis	120	7,400
9-5-68	Anacystis	580	Anabaena	60	1,100
9-10-68	Oedogonium	154	Sphaerocystis	40	638
9-17-68	Pediastrum	72	Fragilaria	66	414
9-24-68	Phacus	154	Oocystis	54	704
			Anacystis	44	
				Oocystis	
				Pediastrum	
				Fragilaria	
				Cryptomonas	

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-14-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	Oocystis	Anacystis	Trachelomonas	460
10-8-68	Staurastrum	Cyclo-Steph	Fragilaria	Phacatus	306
10-15-68	Cyclo-Steph	Staurastrum	Phacus	Ankistrodesmus	360
10-22-68	Cyclo-Steph	Staurastrum	Aphanizomenon	Cosmarium	231
10-29-68	Cyclo-Steph	Fragilaria	Phacus	Anacystis	728
11-5-68	Oocystis	Cyclo-Steph	Staurastrum	Unident.	306
11-12-68	Cyclo-Steph	Staurastrum	Pediastrum	Green Coccolid	352
11-19-68	Cyclo-Steph	Aphanizomenon	Melosira	Fragilaria	660
11-27-68	Staurastrum	Cyclo-Steph	Unident.	Pennate Diatoms	384
12-3-68	Cyclo-Steph	Fragilaria	Pennate Diatoms	Oscillatoria	286
12-10-68	Cyclo-Steph	Staurastrum	Scenedesmus	Unident.	522
12-17-68	Cyclo-Steph	Scenedesmus	Oedogonium	Green Coccolid	468
12-24-68	Cyclo-Steph	Melosira	Pediastrum	Asterionella	324
12-31-68	Cyclo-Steph	Ankistrodesmus	Ankistrodesmus	Cosmarium	522
				Phacus	
				Surirella	

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-16-06

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Cyclo-Steph*	Asterionella	Melosira		176
3-12-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	3,938
3-18-68	Asterionella	Cyclo-Steph	Melosira		110
3-26-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	3,300
4-2-68	Asterionella	Cyclo-Steph	Melosira		220
4-09-68	Ankistrodesmus	Unident.	Melosira	Cyclo-Steph	10,912
		Other Flagellate	Asterionella		3,872
4-16-68	(Data misplaced)				1,120
4-23-68	Ankistrodesmus	Melosira	Asterionella		
4-30-68	Melosira	Cyclo-Steph	Ankistrodesmus	Asterionella	858
5-5-68					1,452
5-15-68	Cyclo-Steph	Melosira	Actinastrum	Scenedesmus	264
5-27-68	Cyclo-Steph	Melosira	Scenedesmus		2,750
6-04-68	Cyclo-Steph	Phacus	Ankistrodesmus	Cryptomonas	1,749
6-12-68	Cyclo-Steph	Phacus	Oocystis		912
6-18-68	Oocystis	Phacus	Cyclo-Steph		860
6-25-68	Cyclo-Steph	Oocystis	Schroederia		264
7-02-68	Cyclo-Steph	Oocystis	Phacus		800
7-09-68	Cyclo-Steph	Melosira	Phacus		540
7-23-68	Cyclo-Steph	Staurastrum	Staurastrum		66
7-30-68	Cryptomonas	Ceratium	Phacus		360
8-06-68	Ceratium	Cryptomonas	Phacus		1,000
8-20-68	Aphanizomenon	Oocystis	Ankistrodesmus		572
8-27-68	Aphanizomenon	Anacystis	Staurastrum		700
9-5-68	Anacystis	Characium	Phacotus	Cyclo-Steph	5,840
9-10-68	Anacystis	Anabaena	Staurastrum	Phacus	2,240
9-18-68	Oedogonium	Cyclo-Steph	Oedogonium		66
			Fragillaria	Pediastrum	486

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)
DOMINANT PHYTOPLANKTON

Station B-16-06						
Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml	
10-1-68	Staurastrum	100 Cosmarium	60 Phacus	60 Cryptomonas	40	640
10-8-68	Staurastrum	99 Cyclo-Steph	54 Closteriopsis	36 Oocystis	18	280
10-15-68	Staurastrum	153 Cyclo-Steph	36 Oocystis	36 Unident.	27	414
10-29-68	Staurastrum	242 Cyclo-Steph	242 Fragilaria	154 Green Coccoïd	110	924
11-5-68	Staurastrum	72 Cyclo-Steph	36 Oocystis	36 Oscillatoria	36	378
11-20-68	Cyclo-Steph	204 Aphanizomenon	72 Oscillatoria	72 Unident.	48	660
12-3-68	Cyclo-Steph	264 Fragilaria	44 Coelastrum	Diatoms Pennate	22	506
12-17-68	Cyclo-Steph	288 Fragilaria	36 Peridinium	Lagerheimia	18	468
				Staurastrum		

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-16-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Cyclo-Steph*	4,972	3,784	946	10,230
3-12-68	Asterionella	2,156	1,804	638	4,884
3-18-68	Asterionella	1,342	990	572	3,432
3-26-68	Asterionella	2,288	1,980	704	5,368
4-2-68	Asterionella	3,036	2,288	792	6,688
4-09-68	Asterionella	280	240	200	1,400
4-16-68	Cyclo-Steph	286	264	264	1,584
4-23-68	Ankistrodesmus	374	264	66	1,009
4-30-68	Cyclo-Steph	594	330	308	1,714
5-02-68	Melosira	638	176	132	1,716
5-07-68	Melosira	1,012	902	462	3,124
5-14-68	Melosira	1,232	748	484	4,158
5-27-68	Cyclo-Steph	968	242	132	1,606
6-04-68	Phacus	792	110	88	1,408
6-12-68	Phacus	440	132	66	836
6-18-68	Oocystis	110	66	66	506
6-25-68	Cyclo-Steph	176	110	44	462
7-02-68	Cyclo-Steph	154	110	66	440
7-09-68	Oocystis	44	33	22	143
7-16-68	Phacus	55	22	22	165
7-23-68	Cyclo-Steph	45	30	30	210
7-30-68	Ceratium	140	60	40	370
8-07-68	Anabaena	60	60	40	420
8-13-68	Cyclo-Steph	40	40	20	200
8-20-68	Aphanizomenon	264	110	88	704
8-27-68	Aphanizomenon	1,680	640	140	2,840
9-5-68	Anacystis	1,240	120	80	1,880
9-10-68	Fragilaria	126	54	54	468
9-18-68	Fragilaria	144	126	54	522
9-24-68	Staurastrum	120	60	40	400
				Cyclo-Steph	100
				Gleocystis	60
				Phacus	36
				Oocystis	36
				Trachelomonas	40

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station B-16-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Fragilaria	140 Staurostrum	100 Trachelomonas	80 Unident.	720
10-15-68	Cyclo-Steph	36 Oocystis	36 Pandorina	Pennate Diatom	198
10-22-68	Staurostrum	154 Cyclo-Steph	88 Unident.	Cosmarium	448
10-29-68	Cyclo-Steph	108 Staurostrum	84 Green Coccoid	Aphanizomenon	360
11-5-68	Cyclo-Steph	90 Unident.	90 Diatom Pennate	Oocystis	468
11-13-68	Cyclo-Steph	228 Staurostrum	84 Fragilaria	Aphanizomenon	576
11-20-68	Cyclo-Steph	240 Staurostrum	84 Pedicellula	Pediacellula	792
11-26-68	Cyclo-Steph	108 Unident.	36 Staurostrum	Scenedesmus	270
12-3-68	Cyclo-Steph	165 Scenedesmus	60 Tetrastrum	Fragilaria	465
12-10-68	Cyclo-Steph	162 Ankistrodesmus	54 Scenedesmus	Asterionella	502
12-17-68	Cyclo-Steph	360 Fragilaria	108 Asterionella	Scenedesmus	816
12-24-68	No sample				
12-31-68	Cyclo-Steph	162 Asterionella	126 Ankistrodesmus	Synedra	486

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-18-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
3-5-68	Asterionella	Melosira	Cyclo-Steph*		2,860
3-12-68	Asterionella	Cyclo-Steph	Melosira	Ankistrodesmus	2,948
3-19-68	Cyclo-Steph	Asterionella	1,342 Melosira	Arkistrodesmus	4,730
3-26-68	Asterionella	Cyclo-Steph	682 Melosira	Scenedesmus	3,146
4-3-68	Asterionella	Cyclo-Steph	770 Melosira	Ankistrodesmus	2,904
4-09-68	Asterionella	Melosira	400 Ankistrodesmus	Cyclo-Steph	2,080
4-16-68	Asterionella	Melosira	286 Ankistrodesmus	Cyclo-Steph	1,430
4-23-68	Ankistrodesmus	Melosira	198 Melosira	Asterionella	946
4-30-68	Melosira	Cyclo-Steph	352 Asterionella		1,032
5-8-68	Cyclo-Steph	Cyclo-Steph	Melosira	Asterionella	3,916
5-15-68	Cyclo-Steph	Ankistrodesmus	1,034 Melosira	Scenedesmus	1,848
5-21-68	Cyclo-Steph	Melosira	396 Actinastrum		1,210
5-27-68	Asterionella	Scenedesmus	220 Melosira		946
6-04-68	Phacus	Cyclo-Steph	176 Melosira		600
6-12-68	Cyclo-Steph	Cyclo-Steph	100 Oocystis		924
6-18-68	Melosira	Oocystis	198 Phacus		132
6-25-68	Cyclo-Steph	Pediastrum	22 Scenedesmus		726
7-02-68	Cyclo-Steph	Oocystis	88 Ankistrodesmus		660
7-09-68	Phacus	Oocystis	140 Phacus		198
		Unident.	44 Cyclo-Steph		
		Green Coccoid			
7-16-68	Phacus	Cryptomonas	60 Oocystis		465
7-23-68	Unident.	Cyclo-Steph	132 Oocystis		660
	Green Filament				
7-30-68	Ceratium	Cryptomonas	60 Anacystis		380
8-07-68	Unident.	Phacus	88 Ceratium		352
	Green Filament				
8-13-68	Anacystis	Phacus	60 Anabaena		340
8-20-68	Anabaena	Anacystis	340 Aphanizomenon	Phacus	1,500
8-27-68	Aphanizomenon	Anacystis	814 Pediastrum		4,070
9-5-68	Anacystis	Oedogonium	80 Pediastrum	Oocystis	1,920
9-12-68	Cyclo-Steph	Pediastrum	72 Cosmarium	Fragilaria	414
9-18-68	Fragilaria	Pediastrum	44 Staurostrum	Oocystis	198

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Date	Most Abundant	Station C-18-01				Total No./ml
		2nd Most	3rd Most	4th Most		
10-2-68	Cryptomonas	75	75	Oocystis	45	450
10-8-68	Fragilaria	72	54	Trachelomonas	54	306
10-15-68	Staurastrum	108	54	Scenedesmus	54	378
10-22-68	Cyclo-Steph	90	81	Phacus	63	351
10-29-68	Staurastrum	242	121	Fragilaria	110	616
11-5-68	Staurastrum	66	44	Unident.	44	242
11-12-68	Cyclo-Steph	135	99	Flagellates Green	99	360
11-20-68	Cyclo-Steph	216	198	Green Coccoid	90	792
11-26-68	Cyclo-Steph	120	108	Aphanizomenon	36	408
12-4-68	Cyclo-Steph	150	90	Oscillatoria	60	495
12-17-68	Cyclo-Steph	342	90	Unident.	72	702
12-24-68	Cyclo-Steph	144	126	Green Coccoid	36	396
12-31-68	Cyclo-Steph	108	54	Staurastrum	36	306
				Ankistrodesmus	18	
				Unident.	18	
				Green Coccoid		
				Phacus	30	495
				Fragilaria	54	702
				Fragilaria	18	396
				Gomphonema	18	306

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-20-01

C222222

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-5-68	Asterionella	Cyclo-Steph*	Melosira	Ankistrodesmus	4,114
3-12-68	Asterionella	Cyclo-Steph	Melosira		4,114
3-19-68	Asterionella	Cyclo-Steph	Melosira		4,972
3-26-68	Asterionella	Melosira	Cyclo-Steph		2,860
4-3-68	Asterionella	Melosira	Cyclo-Steph	Euglena	2,508
4-9-68	Melosira	Ankistrodesmus	Cyclo-Steph	Cyclo-Steph	1,120
4-16-68	Melosira	Asterionella	Peridinium	Ankistrodesmus	1,859
4-23-68	Melosira	Ankistrodesmus	Cyclo-Steph		1,243
4-30-68	Melosira	Ankistrodesmus	Cyclo-Steph		1,606
5-7-68	Cyclo-Steph	Ankistrodesmus	Melosira	Asterionella	2,310
5-15-68	Melosira	Cyclo-Steph	Ankistrodesmus		1,320
5-22-68	Melosira	Phacus	Scenedesmus		462
5-27-68	Cyclo-Steph	Melosira	Ankistrodesmus		748
6-05-68	Cyclo-Steph	Schroederia	Ankistrodesmus		320
6-12-68	Cyclo-Steph	Melosira	Fragilaria		260
6-19-68	Cyclo-Steph	Scenedesmus	Aphanizomenon		180
6-26-68	Cyclo-Steph	Melosira	Staurostrum		1,160
7-10-68	Cyclo-Steph	Asterionella	Oocystis		198
7-16-68	Cyclo-Steph	Unident.	Cryptomonas		360
		Green Flagellate			
7-24-68	Unident.	Melosira	Cyclo-Steph		160
	Green Filament.				
7-30-68	Phacus	Ceratium	Fragilaria		374
8-08-68	Cyclo-Steph	Ceratium	Unident.		360
			Green Filament.		
8-14-68	Gleocystis	Anabaena	Oocystis		140
8-22-68	Oocystis	Pediastrum	Phacus		220
8-27-68	Aphanizomenon	Oocystis	Anacystis		770
9-5-68	Phacus	Oocystis	Oedogonium	Euglena	20
9-10-68	Phacus	Fragilaria	Unidentified		154
9-18-68	Cyclo-Steph	Trachelomonas	Phacus	Coelastrum	144

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-20-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-2-68	Staurastrum	70 Trachelomonas	30 Cyclo-Steph	20 Cosmarium	20
10-8-68	Fragilaria	90 Staurastrum	54 Cyclo-Steph	36 Oocystis	18
10-15-68	Staurastrum	108 Cyclo-Steph	36 Schroederia	36 Cosmarium	18
10-22-68	Phacus	84 Staurastrum	70 Unident.	70 Unident	70
			Green Coccoid	Flagellates Green	490
10-29-68	Staurastrum	360 Cyclo-Steph	288 Unident.	216 Pedicellum	72
			Diatom Pennate		1,278
11-5-68	Cyclo-Steph	48 Staurastrum	48 Unident.	41 Phacus	36
			Green Coccoid		300
11-20-68	Cyclo-Steph	814 Fragilaria	666 Staurastrum	629 Pedicellum	333
11-26-68	Cyclo-Steph	66 Fragilaria	44 Phacus	44 Pedicellum	22
12-4-68	Cyclo-Steph	66 Phacus	55 Scenedesmus	44 Unident.	33
				Diatom Pennate	286
12-10-68	Melosira	162 Cyclo-Steph	144 Staurastrum	54 Tetradonon	36
12-17-68	Cyclo-Steph	396 Melosira	90 Oedogonium	90 Fragilaria	54
12-24-68	Cyclo-Steph	220 Trachelomonas	66 Melosira	44 Pedicellum	44
					594

TABLE 3 (Continued)

DOMINANT PHYTOPLANKTON

Date	Most Abundant	Station C-21-03 <i>Diversa</i>			4th Most	Total No./Ml.
		2nd Most	3rd Most			
3-6-68	Cyclo-Steph*	1,276	484	Melosira	132	2,112
3-12-68	Asterionella	1,584	1,430	Melosira	484	3,784
3-19-68	Cyclo-Steph	748	704	Melosira	550	2,266
3-26-68	Asterionella	1,276	1,078	Cyclo-Steph	770	3,828
4-3-68	Asterionella	1,034	902	Cyclo-Steph	330	2,640
4-10-68	Melosira	462	110	Cyclo-Steph	66	1,078
4-16-68	Ankistrodesmus	500	140	Melosira	120	1,080
4-4-68						
4-30-68	Melosira	385	319	Ankistrodesmus	308	1,408
5-7-68	Cyclo-Steph	990	770	Ankistrodesmus	462	2,750
5-15-68	Cyclo-Steph	484	396	Ankistrodesmus	198	1,914
5-21-68	Melosira	264	198	Phacus	88	770
5-29-68	Cyclo-Steph	638	176	Unident.	132	1,430
6-11-68	Phacus	198	66	Green Flagellate	66	462
6-12-68	Cyclo-Steph	110	66	Phacus	44	286
6-18-68	Cyclo-Steph	75	45	Oocystis	30	210
6-26-68	Cyclo-Steph	572	396	Phacus	66	1,254
7-02-68	Phacus	360	180	Unident.	120	840
7-10-68	Cryptomonas	40	20	Green Flagellate	20	100
7-16-68	Unident. Green Filament.	242	88	Staurostrum	44	396
7-24-68	Oocystis	50	40	Phacus	20	200
7-30-68	Oocystis	45	30	Staurostrum	30	135
8-09-68	Staurostrum	40	20	Trachelomonas	20	140
8-20-68	Anabaena	280	60	Cryptomonas	60	480
8-21-68	Anabaena	220	60	Pediastrum	40	380
8-28-68	Anacystis	66	66	Unident.	22	231
9-5-68	Aphanizomenon	70	60	Green Coccoid	40	420
9-18-68	Staurostrum	108	54	Oocystis	36	306
9-24-68	Staurostrum	198	44	Cyclo-Steph	22	374
				Oedogonium	40	
				Phacus	36	
				Anacystis	22	

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	80 Cosmarium	20 Oocystis	20 Cyclo-Steph	170
10-8-68	Cyclo-Steph	72 Oocystis	36 Staurastrum	18 Anacystis	180
10-15-68	Trachelomonas	110 Phacus	66 Cyclo-Steph	44 Anacystis	374
10-22-68	Cyclo-Steph	90 Fragilaria	63 Staurastrum	18 Anacystis	234
10-30-68	Fragilaria	110 Cyclo-Steph	88 Staurastrum	44 Phacus	550
11-5-68	Cyclo-Steph	81 Staurastrum	27 Oocystis	27 Phacus	288
11-12-68	Cyclo-Steph	374 Staurastrum	242 Fragilaria	154 Pediastrum	1,100
11-19-68	Cyclo-Steph	187 Staurastrum	88 Aphanizomenon	44 Fragilaria	462
12-3-68	Cyclo-Steph	66 Staurastrum	22 Asterionella	22 Fragilaria	220
12-10-68	Cyclo-Steph	418 Staurastrum	132 Melosira	110 Fragilaria	858
12-18-68	Cyclo-Steph	594 Melosira	352 Fragilaria	132 Phacus	1,628

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Date	Most Abundant	Station C-21-04 Bacon			4th Most	Total No./Ml.
		2nd Most	3rd Most			
3-6-68	Cyclo-Steph*	1,606	Asterionella	242	Melosira	88
3-19-68	Melosira	682	Asterionella	594	Cyclo-Steph	528
3-26-68	Asterionella	924	Melosira	814	Cyclo-Steph	660
4-3-68	Melosira	924	Asterionella	770	Cyclo-Steph	506
4-9-68	Melosira	1,034	Asterionella	440	Ankistrodesmus	308
4-16-68	Ankistrodesmus	540	Cyclo-Steph	320	Melosira	120
4-23-68	Ankistrodesmus	286	Melosira	242	Peridinium	154
4-30-68	Ankistrodesmus	836	Cyclo-Steph	418	Melosira	330
5-7-68	Ankistrodesmus	748	Cyclo-Steph	748	Melosira	396
5-15-68	Cyclo-Steph	429	Melosira	253	Ankistrodesmus	176
5-21-68	Cryptomonas	264	Phacus	196	Melosira	154
5-29-68	Cyclo-Steph	528	Scenedesmus	198	Melosira	176
6-4-68	Cyclo-Steph	30	Phacus	30	Schroederia	20
6-12-68	Phacus	140	Cryptomonas	80	Schroederia	20
6-18-68	Phacus	55	Oocystis	33	Coelastrum	22
6-25-68	Unident. Green Flagellate	60	Phacus	20	Coelastrum	20
7-2-68	Cryptomonas	420	Phacus	280	Characium	200
7-10-68	Phacus	55	Cyclo-Steph	11	Melosira	11
7-16-68	Cryptomonas	500	Unident. Green Filament.	200	Anacystis	60
7-23-68	Cryptomonas	75	Unident. Green Filament.	60	Ceratium	45
7-30-68	Ceratium	110	Unident. Green Filament.	80	Cryptomonas	40
8-9-68	Ceratium	60	Unident. Green Filament.	45	Anabaena	30
8-13-68	Unident. Green Filament.	60	Green Filament.	20	Oocystis	10
8-21-68	Anabaena	242	Phacus	22	Cosmarium	22
8-27-68	Pediastrum	40	Anacystis	40	Aphanizomenon	40
9-5-68	Anacystis	160	Aphanizomenon	60	Aleocystis	60
9-10-68	Aphanizomenon	86	Oocystis	18	Staurastrum	18
9-17-68	Staurastrum	104	Cyclo-Steph	52	Aphanizomenon	52
9-24-68	Staurastrum	240	Oocystis	20	Aphanizomenon	20
					Trachelomonas	40
					Phacus	18
					Anacystis	26
					Phacotus	20

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station C-21-04

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	66 Melosira	44 Fragilaria	33 Cyclo-Steph	242
10-8-68	Staurastrum	60 Cyclo-Steph	24 Comarium	24 Fragilaria	204
10-15-68	Staurastrum	77 Cyclo-Steph	55 Aphanizomenon	33 Phacus	341
10-22-68	Staurastrum	90 Cyclo-Steph	18 Fragilaria	18	126
10-30-68	Staurastrum	88 Cyclo-Steph	77 Fragilaria	44 Distoma	462
11-5-68	Cyclo-Steph	44 Ankistrodesmus	44 Staurastrum	22 Coelastrum	143
11-19-68	Cyclo-Steph	220 Staurastrum	132 Fragilaria	88 Aphanizomenon	770
11-26-68	Fragilaria	36 Melosira	27 Unident.	27 Cyclo-Steph	180
			Diatoms Pennate		
12-3-68	Cyclo-Steph	77 Unident.	77 Staurastrum	22 Melosira	242
		Green Coccoïd			
12-10-68	Cyclo-Steph	270 Ankistrodesmus	108 Staurastrum	18 Fragilaria	432
12-18-68	Cyclo-Steph	270 Melosira	126 Cosmarium	18 Staurastrum	594
12-24-68	Cyclo-Steph	572 Fragilaria	220 Melosira	176 Unident.	1,364
				Diatoms Pennate	

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station D-23-01
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Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	Ankistrodesmus		1,496
3-12-68	Cyclo-Steph	Asterionella	Ankistrodesmus		1,452
3-19-68	Cyclo-Steph	Asterionella	Melosira	Ankistrodesmus	2,794
3-26-68	Cyclo-Steph	Melosira	Asterionella	Ankistrodesmus	2,288
4-2-68	Asterionella	Cyclo-Steph	Melosira		2,222
4-10-68	Melosira	Unident.	Peridinium		780
4-16-68	Melosira	Green Flagellate			
4-23-68	Ankistrodesmus	Asterionella	Ankistrodesmus	Tabellaria	2,068
4-30-68	Melosira	Melosira	Cyclo-Steph	Asterionella	1,122
5-6-68	Ankistrodesmus	Ankistrodesmus	Cyclo-Steph	Peridinium	1,386
5-15-68	Cyclo-Steph	Cyclo-Steph	Melosira	Scenedesmus	2,046
5-21-68	Melosira	Melosira	Ankistrodesmus		1,485
5-29-68	Cyclo-Steph	Cyclo-Steph	Tetrastrum		1,140
		Melosira	Unident.		1,188
			Green Flagellate		
6-05-68	Cyclo-Steph	Cosmarium	Oocystis		99
6-11-68	Cyclo-Steph	Melosira	Diatoma		110
6-18-68	Oocystis	Unident.	Scenedesmus		110
6-25-68	Scenedesmus	Pennate Diatom			
7-10-68	Unident.	Oocystis	Cyclo-Steph		110
7-16-68	Unident.	Oocystis	Cyclo-Steph		130
7-23-68	Green Filament.		Oocystis		250
	Green Filament.	Cyclo-Steph			
	Unident.	Oocystis	Sphaerocystis		330
7-30-68	Green Filament.	Phacus	Ceratium		320
8-07-68	Cryptomonas	Oocystis	Cyclo-Steph		230
	Unident.				
8-13-68	Green Filament.				
8-21-68	Cosmarium	Oocystis	Staurostrum		150
8-28-68	Lagerheimia	Ceratium	Staurostrum		150
9-5-68	Fragilaria	Cosmarium	Oocystis		255
9-10-68	Oocystis	Anacystis	Cosmarium	Pediastrum	380
9-17-68	Staurostrum	Ceratium	Cyclo-Steph	Pediastrum	180
9-24-68	Anacystis	Phacus	Ankistrodesmus	Staurostrum	396
	Staurostrum	Cyclo-Steph	Oocystis	Cosmarium	198
* Cyclotella-Stephanodiscus					

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station D-23-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
10-1-68	Staurastrum	77	22	Phacus	22
10-9-68	Cyclo-Steph	84	24	Staurastrum	12
10-15-68	Staurastrum	60	60	Oocystis	24
10-28-68	Cyclo-Steph	144	54	Schroederia	36
10-29-68	Staurastrum	153	81	Melosira	18
11-5-68	Cyclo-Steph	77	22	Cosmarium	11
11-19-68	Staurastrum	110	88	Oscillatoria	44
11-26-68	Cyclo-Steph	135	27	Melosira	18
12-3-68	Cyclo-Steph	44	33	Unident.	22
12-12-68	Cyclo-Steph	126	36	Diatom Pennate	
12-18-68	Cyclo-Steph	234	54	Pediastrum	18
12-24-68	Cyclo-Steph	99	27	Melosira	18
12-31-68	Cyclo-Steph	72	60	Scenedesmus	18
			Unident.	Pediastrum	24
			Green Coccoid		

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-26-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	154	Unidentified	66
3-12-68	Cyclo-Steph	Melosira	560	Asterionella	220
3-19-68	Cyclo-Steph	Asterionella	418	Ankistrodesmus	286
3-26-68	Cyclo-Steph	Ankistrodesmus	264	Asterionella	220
4-2-68	Cyclo-Steph	Asterionella	704	Melosira	352
4-9-68	Asterionella	Melosira	1,012	Cyclo-Steph	132
4-16-68	Ankistrodesmus	Melosira	440	Cyclo-Steph	176
4-23-68	Melosira	Ankistrodesmus	385	Peridinium	198
4-30-68	Melosira	Ankistrodesmus	352	Cyclo-Steph	176
5-7-68	Cyclo-Steph	Ankistrodesmus	528	Melosira	165
5-14-68	Cyclo-Steph	Melosira	352	Ankistrodesmus	1,980
5-21-68	Cyclo-Steph	Ankistrodesmus	400	Melosira	1,496
5-29-68	Cyclo-Steph	Melosira	418	Asterionella	1,420
6-04-68	Cyclo-Steph	Phacus	88	Cryptomonas	2,420
6-11-68	Cyclo-Steph	Phacus	44	Ankistrodesmus	418
6-19-68	Unident.	Trachelomonas	22	Cyclo-Steph	308
	Green Flagellate				110
6-25-68	Cyclo-Steph	Ankistrodesmus	22	Pediastrum	396
7-02-68	Cyclo-Steph	Characium	80	Phacus	560
7-10-68	Phacus	Oocystis	60	Characium	400
7-16-68	Unidentified	Cryptomonas	132	Phacus	770
	Green Filament.				
7-23-68	Cyclo-Steph	Lagerheimia	30	Staurostrum	320
7-30-68	Phacus	Trachelomonas	60	Unidentified	540
				Penate Diatom	
8-09-68	Pediastrum	Unidentified	60	Oocystis	280
		Filament. Green			
8-20-68	Oocystis	Pediastrum	110	Anabaena	418
8-27-68	Anacystis	Aphanizomenon	240	Anabaena	1,980
9-3-68	Anacystis	Pediastrum	80	Aphanizomenon	520
9-4-68	Anacystis	Aphanizomenon	240	Peridinium	2,040
9-10-68	Scenedesmus	36	Oocystis	18	162
9-17-68	Staurostrum	Fragilaria	36	Aphanizomenon	180
9-25-68	Anacystis	Pediastrum	360	Phacotus	1,340
		Staurostrum			

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station E-26-01							Total No./ml.		
Date	Most Abundant	2nd Most	3rd Most	4th Most					
10-1-68	Staurastrum	400	Fragilaria	40	Cosmarium	40	Anabaena	40	720
10-9-68	Staurastrum	176	Cyclo-Steph	22	Suriella	22	Odegonium	22	330
10-15-68	Phacus	144	Staurastrum	72	Cyclo-Steph	54	Anacystis	54	450
10-23-68	Staurastrum	216	Cyclo-Steph	126	Fragilaria	36	Ankistrodesmus	36	540
10-29-68	Staurastrum	99	Melosira	22	Fragilaria	22	Ankistrodesmus	22	275
11-5-68	Cyclo-Steph	75	Unident.	45	Oocystis	30	Unident.	30	270
			Flagellates	Green			Green Coccolid		
11-12-68	Cyclo-Steph	84	Staurastrum	70	Aphanizomenon	28	Closterlopsis	14	280
11-19-68	Cyclo-Steph	121	Staurastrum	44	Diatoma	22	Oocystis	22	286
11-26-68	Cyclo-Steph	88	Staurastrum	66	Unident.	66	Aphanizomenon	44	484
12-3-68	Cyclo-Steph	117	Aphanizomenon	27	Diatom Pennate Staurastrum	18	Unident.	18	234
12-10-68	Cyclo-Steph	198	Staurastrum	36	Melosira	36	Diatom Pennate Scenedesmus	36	378
12-18-68	Cyclo-Steph	72	Scenedesmus	72	Phacus	54			198
12-24-68	Cyclo-Steph	198	Melosira	132	Asterionella	110	Fragilaria	88	682
12-31-68	Melosira	99	Cyclo-Steph	55	Fragilaria	55	Unident.	33	363
							Diatom Pennate		

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station F-27-18

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
3-6-68	Cyclo-Steph*	Asterionella	Ankistrodesmus		4,796
3-13-68	Cyclo-Steph	Ankistrodesmus	Asterionella		5,874
3-19-68	Cyclo-Steph	Asterionella	Oocystis		6,424
3-26-68	Cyclo-Steph	Asterionella	Ankistrodesmus		7,392
4-2-68	Cyclo-Steph	Ankistrodesmus	Asterionella		21,433
4-10-68	Melosira	Asterionella	Cyclo-Steph	Ankistrodesmus	2,376
4-16-68	Ankistrodesmus	Melosira	Cyclo-Steph		1,460
4-24-68	Melosira	Cyclo-Steph	Asterionella	Ankistrodesmus	2,288
4-30-68	Cyclo-Steph	Ankistrodesmus	Melosira	Asterionella	1,540
5-7-68	Cyclo-Steph	Ankistrodesmus	Melosira		1,716
5-14-68	Cyclo-Steph	Melosira	Scenedesmus	Asterionella	1,496
5-29-68	Cyclo-Steph	Melosira	Scenedesmus	Ankistrodesmus	2,046
6-5-68	Cyclo-Steph	Phacus	Cryptomonas		210
6-11-68	Phacus	Cyclo-Steph	Unidentified Green Flagellate		380
6-18-68	Oocystis	Phacus	Unidentified Green Flagellate		60
6-25-68	Phacus	Cryptomonas	Characium		1,000
7-2-68	Cyclo-Steph	Ankistrodesmus	Phacus		960
7-10-68	Cyclo-Steph	Phacus	Staurastrum		340
7-16-68	Phacu	Cryptomonas	Oocystis	Ankistrodesmus	1,078
7-23-68	Phacus	Unidentified Green Filament.	Oocystis		462
7-30-68	Phacus	Ceratiurn	Cyclo-Steph		420
8-9-68	Phacus	Pediastrum	Unidentified Green Flagellate		377
8-16-68	Aphanizomenon	Anabaena	Oocystis		660
8-20-68	Pediastrum	Oocystis	Anacystis		924
8-27-68	Anacystis	Aphanizomenon	Oocystis		820
9-3-68	Anacystis	Ankistrodesmus	Pediastrum	Tabellaria	2,360
9-10-68	Staurastrum	Fragilaria	Pediastrum		126
9-17-68	Oocystis	Staurastrum	Characium	Trachelomonas	140
9-25-68	Phacotus	Staurastrum	Anacystis	Oocystis	540

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station F-27-18					
Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-1-68	Staurastrum	375 Trachelomonas	75 Cyclo-Steph	60 Oocystis	45
10-9-68	Staurastrum	36 Cyclo-Steph	18 Fragilaria	18 Phacatus	18
10-15-68	Staurastrum	63 Phacus	45 Scenedesmus	27 Trachelomonas	27
10-22-68	Staurastrum	224 Unident.	84 Pondorina	56 Phacus	56
		Green Coccoid			
10-29-68	Staurastrum	66 Cyclo-Steph	66 Fragilaria	44 Aphanizomenon	33
11-5-68	Phacus	77 Unident.	55 Ankistrodesmus	44 Cyclo-Steph	22
		Green Coccoid			
11-13-68	Cyclo-Steph	90 Fragilaria	54 Staurastrum	54 Ankistrodesmus	36
11-19-68	Cyclo-Steph	108 Fragilaria	36 Coelastrum	18 Staurastrum	18
11-26-68	Cyclo-Steph	144 Unident.	60 Unident.	36 Oscillatoria	36
		Green Coccoid	Diatom Pennate		
12-3-68	Cyclo-Steph	132 Pediasium	22 Diatoma	11 Asterionella	11
12-10-68	Cyclo-Steph	162 Phacus	36 Nitzschia	18 Pediasium	18
12-18-68	Cyclo-Steph	126 Scenedesmus	54 Asterionella	18 Staurastrum	18
12-24-68	Cyclo-Steph	151 Melosira	88 Fragilaria	22 Synedra	22
12-31-68	Cyclo-Steph	81 Melosira	36 Unident.	36 Scenedesmus	18
			Diatom Pennate		

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-30-01

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./Ml.
5-7-68	Cyclo-Steph*	2,332	Asterionella	110	3,058
3-12-68	Cyclo-Steph	4,312	Asterionella	132	4,796
3-19-68	Cyclo-Steph	13,244	Asterionella	132	13,926
3-26-68	Cyclo-Steph	17,732	Asterionella	88	18,172
4-2-68	Asterionella	176	Fragilaria	176	1,100
4-9-68	Cyclo-Steph	600	Ankistrodesmus	160	1,760
4-16-68	Melosira	374	Diatoma	220	1,474
4-26-68	Melosira	374	Ankistrodesmus	198	1,408
4-30-68	Melosira	506	Ankistrodesmus	110	1,452
5-7-68	Ankistrodesmus	418	Cyclo-Steph	165	1,430
5-14-68	Melosira	528	Cyclo-Steph	80	1,342
5-21-68	Melosira	140	Cyclo-Steph	80	480
5-29-68	Cyclo-Steph	594	Melosira	110	1,914
6-04-68	Melosira	80	Cyclo-Steph	40	360
6-11-68	Cyclo-Steph	66	Melosira	22	220
6-18-68	Unidentified Green Flagellate	30	Cyclo-Steph	15	90
6-25-68	Characium	180	Cyclo-Steph	60	640
7-02-68	Cyclo-Steph	320	Ankistrodesmus	80	920
7-10-68	Not Preserved				
7-16-68	Unidentified Filament. Green	440	Cryptomonas	100	980
7-23-68	Cyclo-Steph	140	Unidentified Filament. Green	40	440
7-30-68	Unidentified Filament. Green	88	Oocystis	22	242
8-09-68	Oocystis	30	Phacus	20	150
8-13-68	Melosira	22	Fragilaria	22	132
8-20-68	Pediastrum	110	Anacystis	44	506
8-27-68	Anacystis	1,520	Aphanizomenon	80	2,080
9-3-68	Oocystis	120	Aphanizomenon	100	720
9-10-68	Fragilaria	88	Trachelomonas	22	330
9-17-68	Staurastrum	54	Oocystis	36	234
9-24-68	Staurastrum	200	Phacotus	40	450

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-30-01						
Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml	
10-1-68	Staurastrum	396	88	66	44	924
10-8-68	Staurastrum	121	11	11	11	198
10-15-68	Staurastrum	54	27	27	27	153
10-22-68	Staurastrum	176	66	66	44	528
10-29-68	Staurastrum	198	90	54	18	468
11-5-68	Cyclo-Steph	36	27	18	18	171
11-12-68	Cyclo-Steph	90	36			126
11-19-68	Cyclo-Steph	144	54	54	54	450
11-26-68	Cyclo-Steph	135	30	15	15	225
12-3-68	Cyclo-Steph	110	44	33	22	264
12-10-68	Cyclo-Steph	72	18	18	18	126
12-18-68	Cyclo-Steph	286	110	66	44	682
12-24-68	Cyclo-Steph	44	44	44	22	231

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-33-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ML.
3-7-68	Cyclo-Steph*	2,046			2,420
3-12-68	Cyclo-Steph	3,674	154 Scenedesmus	22	4,158
3-			176 Ankistrodesmus	132	
3-26-68	Cyclo-Steph	4,334	88 Ankistrodesmus	88	4,774
4-2-68	Cyclo-Steph	10,076	176 Ankistrodesmus	132	10,736
4-10-68	Cyclo-Steph	1,544	400 Ankistrodesmus	280	3,104
4-16-68	Melosira	1,386	660 Cyclo-Steph	418 Asterionella	3,806
4-24-68	Melosira	2,156	1,540 Asterionella	1,408 Ankistrodesmus	7,480
4-30-68	Melosira	473	319 Ankistrodesmus	209	1,265
5-					
5-14-68	Cyclo-Steph	660	286 Melosira	220 Ankistrodesmus	1,628
5-21-68	Melosira	260	180 Unidentified Centric Diatom	140	940
5-28-68	Scenedesmus	352	242 Melosira	88	1,012
6-04-68	Scenedesmus	60	60 Unidentified Other Flagellate	50	420
6-11-68	Phacus	176	44 Scenedesmus	44	308
6-19-68	Unidentified Filament. Green	90	30 Phacus	30	210
6-25-68	Scenedesmus	60	40 Coelastrum	40	240
7-02-68	Ankistrodesmus	60	40 Oocystis	40	340
7-10-68	Cyclo-Steph	20	20 Asterionella	10	100
7-16-68	Unidentified Filament. Green	572	308 Characium	264	1,496
7-23-68	Unidentified Filament. Green	300	45 Fragilaria	30	420
7-31-68	Unidentified Filament. Green	44	22 Fragilaria	22	242
8-09-68	Sphaerocystis	60	40 Unidentified Pennate Diatom	40	240
8-13-68	Cyclo-Steph	280	140 Anabaena	120	900
8-20-68	Oocystis	20	20 Ceratium	10	90
9-3-68	Aphanizomenon	160	100 Cosmarium	60	620
9-10-68	Stauroastrum	90	54 Pedicellula	18	198
9-17-68	Anacystis	100	80 Oocystis	60	340
9-23-68	Stauroastrum	144	54 Phacotus	54	414

* Cyclotella-Stephanodiscus

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station G-33-03

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
10-1-68	Staurastrum	286	176	154	836
10-15-68	Staurastrum	45	27	27	207
10-22-68	Staurastrum	45	36	18	117
10-29-68	Staurastrum	374	154	132	990
11-5-68	Unident.	48	36	12	132
	Green Coccoid				
11-14-68	Cyclo-Steph	55	22	22	143
11-19-68	Staurastrum	96	60	48	341
12-3-68	Cyclo-Steph	108	27	18	189
12-10-68	Cyclo-Steph	72	18	18	180
12-17-68	Cyclo-Steph	198	36	18	270
12-24-68	Cyclo-Steph	96	48	48	264
12-31-68	Cyclo-Steph	22	22	11	121

TABLE 8 (Continued)

DOMINANT PHYTOPLANKTON

Station H-36-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml.
5-7-68	Cyclo-Steph*	814 Asterionella	77 Melosira	33	1,034
3-12-68	Cyclo-Steph	2,640 Asterionella	198 Ankistrodesmus	110	3,168
3-19-68	Cyclo-Steph	2,684 Asterionella	286 Ankistrodesmus	88	3,168
3-26-68	Cyclo-Steph	1,804 Asterionella	44 Scenedesmus	22	1,914
4-2-68	Cyclo-Steph	13,816 Ankistrodesmus	264 Asterionella	176 Unidentified Coccoid Green	14,476
4-10-68	Cyclo-Steph	3,168 Ankistrodesmus	132 Melosira	44	3,542
4-15-68	Cyclo-Steph	1,210 Ankistrodesmus	1,056 Melosira	572	3,960
4-23-68	Melosira	462 Ankistrodesmus	308 Cyclo-Steph	242 Tetrastrum	1,386
4-29-68	No sample				
5-7-68	Melosira	660 Ankistrodesmus	638 Cyclo-Steph	176 Scenedesmus	2,398
5-14-68	Melosira	198 Cyclo-Steph	187 Ankistrodesmus	165	737
5-21-68	Scenedesmus	110 Cyclo-Steph	44 Melosira	44	396
5-27-68	Cyclo-Steph	814 Melosira	198 Scenedesmus	132 Fragilaria	1,738
6-04-68	Cryptomonas	110 Trachelomonas	66 Scenedesmus	44	330
6-10-68	Fragilaria	20 Oocystis	20 Scenedesmus	20	60
6-18-68	Melosira	22 Phacus	22 Unidentified Pennate Diatom	22	66
6-20-68	Unidentified Filament. Green Ankistrodesmus	20 Cyclo-Steph	10 Oocystis	10	80
7-02-68		30 Unidentified Coccoid Green	10		40
7-09-68	Oocystis	40 Phacus	20 Staurostrum	20	180
7-16-68	Cryptomonas	340 Phacus	160 Unidentified Filament. Green	140	880
7-22-68	Ceratium	60 Unidentified Filament Green	40 Oocystis	20	240
7-30-68	Cryptomonas	60 Ceratium	60 Pedicellum	60	420
8-06-68	Unidentified Filament. Green	340 Oocystis	40 Staurostrum	40	520
8-09-68	Unidentified Filament. Green	240 Cyclo-Steph	20 Melosira	20	480
8-13-68	Anabaena	380 Oocystis	20 Staurostrum	20	480
8-19-68	Anabaena	200 Anacystis	80 Cryptomonas	60	520
8-27-68	Anacystis	88 Aphaniizomenon	66 Cyclo-Steph	44	550
9-3-68	Anacystis	940 Unidentified	100 Tabellaria	60	1,340
9-10-68	Oocystis	44 Oedogonium	44 Trachelomonas	44	198
9-16-68	Phacotus	90 Ceratium	36 Pedicellum	36	180
9-30-68	Staurostrum	418 Cyclo-Steph	66 Pedicellum	66	792
* Cyclotella-Stephanodiscus					

TABLE 8 (Concluded)

DOMINANT PHYTOPLANKTON

Station H-36-05

Date	Most Abundant	2nd Most	3rd Most	4th Most	Total No./ml
10-8-68	Staurastrum	84 Trachelomonas	60 Oocystis	48 Phacotus	12 204
10-14-68	Staurastrum	176 Schroederia	44 Fragilaria	22 Closteriopsis	22 341
10-22-68	Staurastrum	36 Synedra	18 Ankistrodesmus	11 Pediastrum	18 108
10-28-68	Cyclo-Steph	48 Fragilaria	24 Ankistrodesmus	12 Pediastrum	12 156
11-4-68	Staurastrum	54 Cyclo-Steph	9 Scenedesmus	9 Ceratium	9 81
11-12-68	Phacus	56 Ankistrodesmus	56 Cyclo-Steph	42 Pediastrum	42 350
11-18-68	Cyclo-Steph	36 Ankistrodesmus	27 Oocystis	27 Cosmarium	18 189
11-26-68	Cyclo-Steph	110 Unident.	22 Synedra	22 Aphanizomenon	22 176
		Diatom Pennate			
12-2-68	Cyclo-Steph	90 Aphanizomenon	60 Melosira	45 Scenedesmus	30 270
12-10-68	Cyclo-Steph	132 Melosira	88 Fragilaria	66 Diatoma	44 528
12-17-68	Cyclo-Steph	126 Melosira	72 Fragilaria	36 Tabellaria	36 324
12-24-68	Cyclo-Steph	165 Unident.	45 Melosira	30 Fragilaria	30 315
		Diatoms Pennate			
12-31-68	Melosira	90 Cyclo-Steph	72 Unident.	54 Scenedesmus	18 270
			Diatom Pennate		

LIST OF ABBREVIATIONS FOR DATA COMPILATION

Abbreviations are used in this report for tabulated data according to the following list:

Units

mg/l - milligrams per liter
umhos/cm - micromhos per centimeter

Chemistry

Ag - silver in mg/l
Alk - alkalinity in mg/l CaCO_3
Ar - arsenic in mg/l
Cd - cadmium in mg/l
Cl - chloride in mg/l
Cl Dem. - chlorine demand in mg/l
CN - cyanide in mg/l
Cr - chromium in mg/l
Cu - copper in mg/l
COD - chemical oxygen demand in mg/l
CON - conductivity in umhos/cm at 25°C
DO - dissolved oxygen in mg/l
Fe - iron in mg/l
Hard - hardness in mg/l as CaCO_3
Mn - manganese in mg/l
 $\text{NH}_3\text{-N}$ - ammonia nitrogen in mg/l
 $\text{NO}_3\text{-N}$ - nitrate nitrogen in mg/l
Org-N - organic nitrogen in mg/l
pH - hydrogen ion concentration
 SiO_2 - silica in mg/l
 SO_4^{2-} - sulfate in mg/l
 SP^4 - soluble phosphorus in mg/l
TP - total phosphorus in mg/l
T - temperature in degrees Centigrade
TDS - total dissolved solids in mg/l
TB - turbidity in mg/l SiO_2
TO - threshold odor

Biology

Am - Amphipoda in organisms per m^2
Is - Isopoda in organisms per m^2
Pr - Prosobranchia in organisms per m^2
Pul - Pulmonata in organisms per m^2
Hir - Hirudinea in organisms per m^2
Ol - Oligochaeta in organisms per m^2
Ne - Nematoda in organisms per m^2
Tur - Turbellaria in organisms per m^2
Un - Unionidae in organisms per m^2

Sph - Sphaeriidae in organisms per m²
Ch - Chironomidae in organisms per m²
Eph - Ephemeroptera in organisms per m²
Tri - Tricoptera in organisms per m²
Chloro - Chlorophyll in mg/m³
Ses - Seston in mg/m³
Blue-green, green, flagellates, and diatoms given in number of
organisms per ml.
PC - plankton count
x - qualitative only

Microbiology

Fec. Coli. - fecal coliform per 100 ml
T. Coli. - total coliform per 100 ml
SPC - standard plate count per milliliter